
AKF



217 West 57th Street
New York, NY
Energy Code Compliance Objections Response
09/18/2015

General note: The entire project is being re-filled to the DOB as a result of some plan and envelope / façade changes and other project revisions. As a result, some of the information listed in the already approved below responses has changed (curtain wall vision and opaque areas, curtain wall performance, etc.). Where this is the case, the revision has been noted in the below summary of comments. Each previous and new DOB comment has been listed below, with the previously approved comments being greyed out and the new DOB comments listed separately. All comment responses are also provided, and where the comment response for a previously approved comment has been revised based on design changes this has been noted below.

1. PREVIOUS COMMENT - Energy Code Review Comment (Page 1, Page 3 (drawing A-801)):

1 RCNY §5000-01(g)-Provide building thermal envelope summary for each elevation. Summary shall document wall type label, Surface Area and Thermal Performance (U-factor/R-value/SHGC) for all above & below grade wall, slab/floor heat loss conditions, roof, floors/slabs and fenestration types that is part of the exterior thermal envelope for proposed project.

The summary information shall be coordinated with provided Energy Analysis reports.

All building envelope components listed shall have a corresponding wall detail/section, window/door schedule specifying thermal performance properties to confirm R-values and U-factors listed in building envelope summary table.

Insufficient support documentation for NYCECC review.

Comment Response:

Previously resolved (07-07-2015), however the updated tables below and refiled architectural drawing, A090 have been revised to reflect the latest curtain wall design for the refiled plans. The average construction U-values match the average U-values in the energy model and in the energy model form on the EN-100 drawing as can be seen in the below summary of the average U-value resulting from the spec. The performance values of the purchased curtain wall has been provided in Appendix A1a and A1b to show the actual submitted product data.

Envelope areas from architectural drawing take-offs match closely the output from the energy model report (LV-D). Small discrepancies between model output and architectural take-offs are expected based on the eQUEST modelling input procedure. All areas are within ~1% of the LV-D report and Architectural take-offs, well within standard modelling protocol.

The building has used a performance spec; the U-values and SHGC listed on the documents are as per the performance specification (included as an appendix to this comment response) and as provided on drawing A-090.

Summary	MAT'L	AREA	% Of Total	U-VALUE	SHGC
A	GLAZING VISION (IGU)	259,737	36%	0.38	0.28
B	SPANDREL (IGU)	195,607	27%	0.17	-
C	ARCH METAL PANEL (INSULATED)	165,133	23%	0.05	-
D	PODIUM METAL PANEL (INSULATED)	2,747	0%	0.07	-
E	AIR WELLLOUVER (NON-ACTIVE)	4,570	1%	0.10	-
F	LOUVER (ACTIVE)	5,834	1%	12.00	-
G	PODIUM CURVED LOUVER	7,083	1%	0.22	-
H	RETAIL GLAZING VISION (CURVED)	25,759	4%	0.55	0.52
J	RETAIL GLAZING VISION (I.G.U.)	1,700	0%	0.31	0.6
K	RETAIL GLAZING VISION (STORE FRONT)	2,886	0%	0.95	0.8
L1	ADJ BUILDING WALL AREA	6,647	1%	0.35	-
L2	ADJ BUILDING WALL AREA	-	0%	0.63	-
L3	ADJ BUILDING WALL AREA	17,963	2%	0.43	-
L4	ADJ BUILDING WALL AREA	14,331	2%	0.35	-
L5	ADJ BUILDING WALL AREA	1,056	0%	0.27	-
L6	ADJ BUILDING WALL AREA	748	0%	0.20	-
J7	ADJ BUILDING WALL AREA	4,591	1%	0.09	-
M	LANDMARK RECONSTRUCTION WALL AREA	2,287	0%	0.08	-
N	LANDMARK RECONSTRUCTION WINDOW AREA	97	0%	0.95	0.8
P	LANDMARK WALL AREA	4,858	1%	0.50	-
Q	LANDMARK WINDOW AREA	3,139	0%	0.95	0.8
R	BELOW GRADE	58,252	100%	N/R/	-

Roof	MAT'L	AREA	U-VALUE	SHGC
S	Roof (RT-01 & RT-02)	45,691	0.05	-
T	Soffit (Insulated)	4,555	0.05	-
U	Slab on Grade)	40,704	-	-

Totals	AREA	AVG U-VALUE	% of total	AVG SHGC
Total Glass	293,318	0.41	40.4%	0.31
Total Above-Grade Wall	433,455	0.31	59.6%	-
Total Below-Grade Wall	58,252		1	-
Total Roof	45,691	0.05	1	-

2. PREVIOUS COMMENT - Energy Code Review Comment (Page 1):

Per energy model report proposed project has 38% glazing. Provide sufficient support documentation to match Energy Analysis. Please refer to documentation requirements per 1 RCNY §5000-01.

Comment Response:

Previously resolved (07-07-2015), however the updated tables above and refiled architectural drawing, A090 have been revised to reflect the latest glazing percentages for the refiled plans. The proposed design model shows 40.4% window area, and the baseline design model shows 40% window area.

Architectural drawing A-090 has been updated to show detailed area breakdowns of the wall and window

areas. These areas are consistent with the modelled areas seen in the LV-D output report. The envelope areas have been updated to match the updated filing set, and now show 39% glazing in both the A-090 backup and the energy model.

3. PREVIOUS COMMENT - Energy Code Review Comment (Page 2, Page 3 (drawing G-001)):

1 RCNY §5000-01(f) - Incomplete submission.

Missing EN dwg: on EN dwg provide the following:

1) EN-1 form for energy model

2) tr8 inspections

3) professional statement

Provide the following support documentation for review with Energy Model

4) complete support documentation for building envelope as mark-up

5) lighting connected power information to support savings as indicated in energy model.

6) completed MEP drawings showing proposed equipment with efficiency ratings as shown in energy model.

Energy Code Compliance review pending until full submission is provided.

Comment Response:

Drawing EN-100 has been submitted. EN-100 drawing includes signed EN-1 form, tr8 inspections list, and professional statement.

In addition, the envelope supporting documentation has been provided as part of the Architectural Drawings A-090, as well as the attached section of the Curtain Wall Specifications as seen in the appendix of this report.

The lighting power density calculations and lighting fixture schedules have been provided as supporting information to the lighting connected power load.

The Mechanical drawings show the specified efficiency ratings of the equipment at rated conditions and at operating conditions where available. The scheduled efficiencies are as modelled, except where the modelled efficiency input is adjusted to separate fan power as required by ASHRAE 90.1-2007 section 11.3.2 c.

Comment 3.1: Verify all inspections on drawing checked "yes" match TR8

Comment 3.1 Response: Updated EN drawing matches filed TR8.

Comment 3.2: ECC 505- Electrical Power and Lighting Systems

Provide notes and narratives where applicable on the drawing set to show compliance with all mandatory provisions for interior and exterior fixtures, lighting controls, sensors and dimming systems.

For non-public, residential portions of this building, note compliance by way of ECC 505.5.3. Provide a note to specify min. 50% high efficacy lamps in construction drawings and state compliance on "EN" drawing.

Comment 3.2 Response:

Notes have been added to the electrical lighting drawings to clarify the specific lighting control requirements of energy code.

The comment referencing non-public residential section refers to NYC ECC 505.5.3. We believe this to be a requirement specific to the NYC ECC 2011; and not applicable under the ASHRAE 90.1-2007 (with NYC modifications), performance path, as the building is following. In addition, the residential area lighting has been modelled according to the ASHRAE 90.1-2007 Section 11 requirement for Multi-family LPD which is in line with NYC ECC 505.5.2, which is the primary alternative to NYC ECC 505.5.3.

4. PREVIOUS COMMENT - Energy Code Review Comment (Page 3 (drawing A-801)):

ECC 502.4 - Drawings do not specify mandatory provisions for air leakage, including where applicable, outdoor air intake and exhaust dampers, loading dock weatherseals, vestibules and recessed lighting seals where lighting is in the thermal envelope. Provide notes.

Comment Response:

Air infiltration requirements have been included in specifications. The infiltration requirements have been

added as notes to drawing A-021.

5. PREVIOUS COMMENT - Energy Code Review Comment (Page 3 (drawing A-801)):

ECC 502.4.2 Curtain wall, storefront glazing and commercial-glazed swining entrance doors and revolving doors shall be tested for air leakage at 1.57 pounds per square foot (psf) (75 Pa) in accordance with ASTM E283. For curtain walls and storefront glazing, the max. air leakage rate shall be 0.3 cubic foot per minute per square foot (cfm/ft²) (5.5 m³/h x m²) of fenestration area. For commercial glazed swinging entrance doors and revolving doors, the maximum air leakage rate shall be 1.00 cfm/ft² (18.3 m³/h x m²) of door area when tested in accordance with ASTM E 283. Provide specification.

Comment Response:

Air infiltration requirements have been included in specifications. The infiltration requirements have been added as notes to drawing A-021.

6. PREVIOUS COMMENT - Energy Code Review Comment (Page 4 (drawing A-801)):

ECC 502.4.1 Air leakage of window/door assemblies shall be determined in accordance with AAMA/WDMA/CSA 101/I.S.2/A440, or NFRC 400 by an accredited, independent laboratory, and labeled and certified by the manufacturer sand shall not exceed 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²). Provide Notes.

Comment Response:

Air infiltration requirements have been included in specifications. The infiltration requirements have been added as notes to drawing A-021.

7. PREVIOUS COMMENT - Energy Code Review Comment (Page 4 (drawing A-802)):

1 RCNY §5000-01(g) (1) - Specify thermal properties for proposed construction.

For all exterior envelope

details/sections/assemblies provided throughout drawing set:

specify R-values, insulation type & thickness, metal/wood stud size and spacing, and other pertinent thermal properties to match provided Energy Analysis. Derate for thermal bridging where applicable.

Comment Response:

The building envelope performance spec U-values and SHGC are listed on the documents (A-090) and in the specification sections provided as an appendix to this comment response document.

8. PREVIOUS COMMENT - Energy Code Review Comment (Page 4 (drawing A-802)):

ASHRAE 90.1-2010 Appendix A1.1 – Use Pre-calculated assembly U-factors, C-factors and heat capacities for typical construction assemblies are included in Sections A2 through A8. These values shall be used for all calculations unless otherwise allowed by Section A1.2

Comment Response:

Appendix A1.1 has been used to determine the U-values of the concrete wall sections as per the below summary. All other envelope areas are based on a performance specification as per the above.

From Table A3.1A – CMU with cores filled with insulation:

- 8" CMU grouted with 4" insulation = R 20: U-0.35
- 12" CMU grouted with 4" insulation = R 20: U-0.35

Extrapolated from Table A3.1B – Density 144 lb/ft³ :

- 1'0" Concrete – U-0.63
- 1'-8" Concrete – U-0.43
- 2' Concrete – U-0.35
- 2'-6" Concrete – U-0.27
- 3' Concrete – U-0.20
- 4'-6" Concrete – U-0.09

9. PREVIOUS COMMENT - Energy Code Review Comment (Page 4 (drawing A-803)):

1 RCNY §5000-01(g) (1) - Specify thermal properties for proposed construction. For all exterior envelope details/sections/assemblies provided throughout drawing set: specify R-values, insulation type & thickness, metal/wood stud size and spacing, and other pertinent thermal properties to match provided Energy Analysis. Derate for thermal bridging where applicable.

Comment Response:

The building envelope performance spec U-values and SHGC listed on the documents (A-090) are as per the performance specification. Details of the wall sections can be found in the A-800 series drawings submitted to DOB.

COMMENT 9.1: On all detail sheets, (A-800 series) where insulation is indicated as part of the thermal envelope, provide notes or a schedule showing insulation type, thickness and R-value to match values in Energy Analysis.

COMMENT 9.1 RESPONSE:

Information and notes regarding insulation thickness and performance have been added to all applicable drawings in A-800 series

10. PREVIOUS COMMENT - Energy Code Review Comment (Page 4 (drawing A-802)):

ASHRAE 90.1-2010 Appendix A1.1 – Use Pre-calculated assembly U-factors, C-factors and heat capacities for typical construction assemblies are included in Sections A2 through A8. These values shall be used for all calculations unless otherwise allowed by Section A1.2

Comment Response:

Appendix A1.1 has been used to determine the U-values of the concrete wall sections as per the summary provided above. All other envelope areas are based on a performance specification as per the above.

JULY 2015 REVIEW - NEW COMMENTS:

11. Energy Code Review Comment:

4.2 watts/sq.ft. LPD is maximum for jewelry, crystal, china etc. (limited area within larger retail space) Design of entire retail space is TBD and should be modeled in Baseline Design at reduced LPD of 1.7 wt./sq.ft. per Table 9.6.1

COMMENT RESPONSE: LPD for Baseline and Proposed retail spaces has been reduced to 1.7 w/sf, per ASHRAE 90.1-2007 Table 9.6.1. The updated model results and outputs reflect this change.

12. Energy Code Review Comment:

Misc. equipment value seems high. Verify Baseline value and provide specification to support values indicated.

COMMENT RESPONSE: EPD for Baseline and Proposed retail spaces has been reduced to 1.0 w/sf to represent more conservative estimate. The updated model results and outputs reflect this change.

13. Energy Code Review Comment:

Provide revised PSE, BEPS, ESP, etc. reports showing modeled outputs with and without Micro turbine variable. Indicate natural gas cost as separate line item if micro turbine reduction is applicable.

COMMENT RESPONSE: All reports for model with and without Micro-turbine variable have been included in SIM file outputs.

14. Energy Code Review Comment:

Label all pumps and Plant equipment with similar title (or keyed reference) to coordinate Baseline units to Proposed units.

COMMENT RESPONSE: Baseline Pumps have been labeled to coordinate more clearly. See below for a key of

proposed/baseline pump naming / comparisons. Plant equipment for proposed design has been labeled according to actual equipment tag, and baseline equipment has been revised to describe loop and areas served.

Proposed	Baseline
Penthouse CHW Loop	PCHW Loop
Retail CHW Loop	Retail PCW Loop
Res PCW Loop	Res PCW Loop
__SCW 90 Loop	__SCW 90 Loop
__SCW 67 Loop	__SCW 67 Loop
__SCW 46 Loop	__SCW 46 Loop
Upper Res PHW Loop	Upper Res PHW Loop
__SHW FTR 90 Loop	Upper DHW Res Loop
__SHW DHW 90 Loop	
__SHW FTR 67 Loop	
__SHW DHW 67 Loop	
__SHW FTR 46 Loop	
__SHW DHW 46 Loop	
Lower Res PHW	Lower Res PHW Loop
__SHW FTR 11 Loop	Lower DHW Res Loop
__SHW DHW 11 Loop	
__SHW DHW 7 Loop	
Retail PHW Loop	Retail PHW Loop
Retail Elec DHW Loop	Retail DHW Loop

15. Energy Code Review Comment:
Flow rate does not match schedule

COMMENT RESPONSE: Flow rate for proposed design cooling towers is now assigned as 2,000 gpm, as scheduled. The updated model results and outputs reflect this change.

16. Energy Code Review Comment:
Outside air should match Baseline. Verify that all Proposed outdoor air flow (cfm) values match Baseline design.

COMMENT RESPONSE: Proposed design outdoor airflow rates are consistent with baseline outdoor airflow rates for each air system. This can be verified in the SV-A output reports for baseline and proposed. A summary of total OA for each is seen below:

Proposed				Baseline				Matches?
System Name	Supply CFM	OA CFM	OA %	System Name	Supply CFM	OA %	OA CFM	
SC2 (Retail)	36,181	8,736	24%	SC2 (Retail)	31,394	28%	8,736	yes
SC1 (Retail)	38,332	10,252	27%	SC1 (Retail)	36,843	28%	10,252	yes
Cellar (Retail)	36,665	9,386	26%	Cellar (Retail)	47,482	20%	9,386	yes
Ground (Retail)	62,581	8,495	14%	Ground (Retail)	75,076	11%	8,495	yes
1M (Retail)	39,821	9,455	24%	1M (Retail)	38,701	24%	9,455	yes
2 (Retail)	56,791	9,936	17%	2 (Retail)	59,964	17%	9,936	yes

3-4 (Retail)	126,782	19,872	16%	3-4 (Retail)	172,952	11%	19,872	yes
5 (Retail)	72,208	9,936	14%	5 (Retail)	63,153	16%	9,936	yes
HP Low Res	191,985	-	0%	HP Low Res	193,996	0%	-	yes
HP Low Mid Res	155,487	-	0%	HP Low Mid Res	157,869	0%	-	yes
HP Upp Mid Res	160,895	-	0%	HP Upp Mid Res	164,047	0%	-	yes
HP Upper Res	173,360	-	0%	HP Upper Res	178,491	0%	-	yes
AC-SC-3-1	550	385	70%	AC-SC-3-1	551	70%	385	yes
AC-SC-3-2	1,600	-	0%	AC-SC-3-2	1,613	0%	-	yes
AC-SC-3-3	550	385	70%	AC-SC-3-3	552	70%	385	yes
AC-SC-3-4	6,000	3,600	60%	AC-SC-3-4	4,539	79%	3,600	yes
AC-SC-2-1	800	430	54%	AC-SC-2-1	802	54%	430	yes
AC-SC-2-2	4,000	3,520	88%	AC-SC-2-2	4,016	88%	3,520	yes
AC-C-1	3,000	750	25%	AC-C-1	3,003	25%	750	yes
AC-C-2 & AC-C-3	1,100	880	80%	AC-C-2 & AC-C-3	880	100%	880	yes
AC-1-1	7,000	7,000	100%	AC-1-1	7,000	100%	7,000	yes
AC-6-1	13,800	-	0%	AC-6-1	12,774	0%	-	yes
AC-6-2	1,700	850	50%	AC-6-2	1,135	75%	850	yes
AC-7-1	1,650	975	59%	AC-7-1	987	99%	975	yes
AC-7-2	1,600	960	60%	AC-7-2	960	100%	960	yes
AC-7-3	2,000	-	0%	AC-7-3	1,107	0%	-	yes
AC-7-4	15,000	15,000	100%	AC-7-4	15,000	100%	15,000	yes
AC-7-5	13,000	13,000	100%	AC-7-5	13,000	100%	13,000	yes
AC-9-2	2,000	-	0%	AC-9-2	1,193	0%	-	yes
AC-9-1 (pool)	10,000	1,750	18%	AC-9-1 (pool)	10,009	17%	1,750	yes
AC-27-1	3,000	-	0%	AC-27-1	2,846	0%	-	yes
AC-46-1	3,000	-	0%	AC-46-1	2,827	0%	-	yes
AC-67-1 & AC-67-2	7,000	3,520	50%	AC-67-1 & AC-67-2	5,677	62%	3,520	yes
AC-95-1	5,500	-	0%	AC-95-1	5,506	0%	-	yes
AC-95-2	11,000	-	0%	AC-95-2	7,698	0%	-	yes
AC-96-1 & AC-96-2	24,000	-	0%	AC-96-1 & AC-96-2	29,160	0%	-	yes
RCS-11-1	3,000	3,000	100%	RCS-11-1	3,000	100%	3,000	yes
RCS-26-1	3,000	3,000	100%	RCS-26-1	3,000	100%	3,000	yes
RCS-26-2	3,000	3,000	100%	RCS-26-2	3,000	100%	3,000	yes
RCS-45-1	3,750	3,750	100%	RCS-45-1	3,750	100%	3,750	yes
RCS-92-1	4,000	4,000	100%	RCS-92-1	4,000	100%	4,000	yes
ERU-11-1	14,500	14,500	100%	ERU-11-1	14,500	100%	14,500	yes
ERU-27-1	10,000	10,000	100%	ERU-27-1	10,000	100%	10,000	yes
ERU-27-2	10,000	10,000	100%	ERU-27-2	10,000	100%	10,000	yes
ERU-46-1	10,000	10,000	100%	ERU-46-1	10,000	100%	10,000	yes
ERU-46-2	12,000	12,000	100%	ERU-46-2	12,000	100%	12,000	yes
ERU-67-1	12,000	12,000	100%	ERU-67-1	12,000	100%	12,000	yes
ERU-67-2	12,000	12,000	100%	ERU-67-2	12,000	100%	12,000	yes
ERU-91-1	12,000	12,000	100%	ERU-91-1	12,000	100%	12,000	yes

Appendix A1a
Tower Curtain wall Specification – Performance Requirements

217 WEST 57TH STREET, NEW YORK

SECTION 08 44 13

Project No: 1216-00

GLAZED ALUMINUM CURTAIN WALLS

- 1.6.10.12 All glass and glazing details shall be reviewed for thermal and design sizes (loads) and approved by the glass manufacturer.
- 1.6.10.13 The glass manufacturer shall perform a thermal stress and load stress analysis.
- 1.6.10.14 If applicable, acoustical performance shall meet and/or exceed requirements of project acoustic report, or code required minimums, whichever is more stringent.
- 1.6.11 Sealants used as weather seals shall not experience adhesive or cohesive failure. Sealants shall withstand movements up to the limits prescribed by manufacturers. Exposed sealant surface shall not crack or bubble. Sealant shall not stain adjacent materials. Sealants shall be used only if manufacturer's adhesion, compatibility and stain tests yield favorable results.
- 1.6.12 Snap engaged components shall not disengage when subjected to concentrated force of 10 pounds (4.54 kg) or during mock-up structural tests. Mechanical fasteners shall be incorporated.
- 1.6.13 Condensation Control: For conditions listed below, condensation or frost formation on indoor surfaces (including surfaces covered by insulation) shall not occur. The mechanical engineer shall confirm the following values and performance requirements. If vision glass area is 50% of total building façade or higher an ASHRAE analysis is required.
- 1.6.13.1 Night
Outdoor air temperature: 5°F.
Indoor air temperature: 68°F.
Indoor relative humidity: 40%
- 1.6.14 Criteria for Thermal Performance
- 1.6.14.1 Condensation resistance factor (CRF) shall be at least 55 when determined in accordance with AAMA 1503-09.
- 1.6.14.2 Heat transmission (U-value) when determined in accordance with AAMA 1503-09 and NFRC 100-2010 (15 mph wind velocity) are as follows:
- For flat vision glazing:
- Glazing U-values must be $U = 0.27$ **0.30** or better.
- Solar Heat Gain Coefficient must be SHGC = .35 or better**
- Visible Light Transmittance must be TVIS = 62% or better
- 1.6.14.3 **Assembly U-values for flat glazing must be $U = 0.37$ or better for the overall vision glass with surrounding framing metal.**
- All window frames shall be thermally broken and insulated.
- 1.6.14.4 R-Value—Wall and/or Spandrel Area: Shall have the necessary composition to achieve the R value required to achieve an overall assembly of $U = 0.05$ or better.
- 1.6.14.5 The mechanical engineer shall further advise as to performance criteria that would make the project eligible for grants or partnership arrangements.



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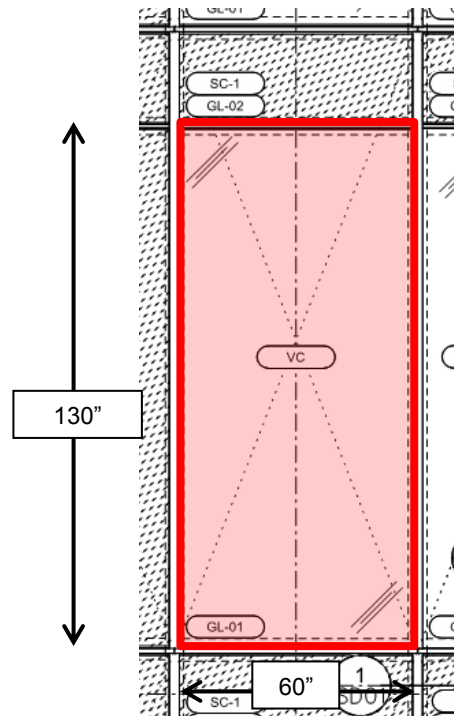


Figure 18: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Spandrel	1.25	601.90	4.18	5.22
Left Section	0.23	308.13	2.14	0.49
Right Section	0.37	308.13	2.14	0.79
Transom - Spandrel / Vision	0.98	235.32	1.63	1.60
Top Section	0.27	132.18	0.92	0.25
Bottom Section	0.35	132.18	0.92	0.32
Vision Glass	0.28	6082.18	42.24	11.83
Totals		7800	54	20.51

Vision U-Value	0.38 [Btu/h.ft ² .F]
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Table 6: Wall Type A Vision U-Value



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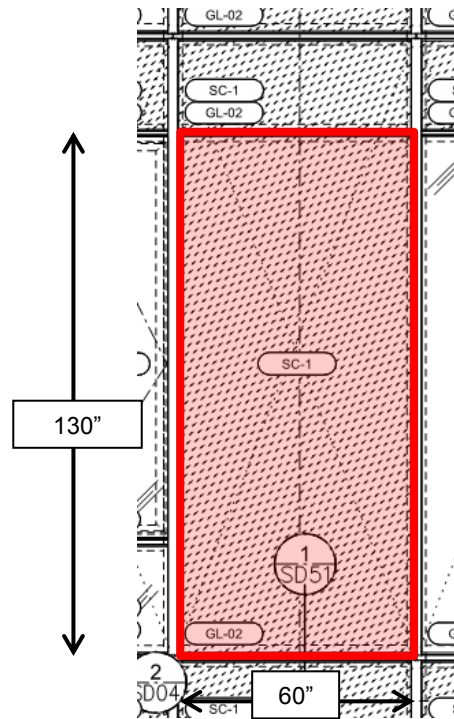


Figure 19: Typical Spandrel Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Dart Mullion - Spandrel / Spandrel	0.14	601.90	4.18	0.59
<i>Left Section</i>	0.14	308.13	2.14	0.30
<i>Right Section</i>	0.14	308.13	2.14	0.30
Transom - Spandrel / Spandrel	0.55	235.32	1.63	0.90
<i>Top Section</i>	0.35	132.18	0.92	0.32
<i>Bottom Section</i>	0.35	132.18	0.92	0.32
Spandrel Region	0.05	6082.18	42.24	2.11
Totals		7800	54	4.84

Spandrel U-Value 0.09 [Btu/h.ft².F]

Table 7: Wall Type A Spandrel U-Value

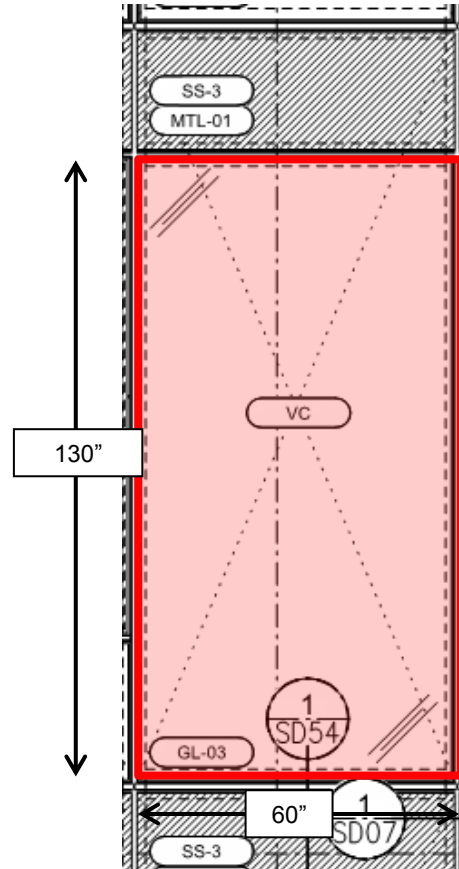


Figure 16: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Vision	1.05	601.90	4.18	4.39
Left Section	0.35	308.13	2.14	0.75
Right Section	0.35	308.13	2.14	0.75
Transom - Metal / Vision	1.17	235.32	1.63	1.91
Top Section	0.32	132.18	0.92	0.29
Bottom Section	0.36	132.18	0.92	0.33
Glass Vision	0.28	6082.18	42.24	11.83
Totals		7800	54	20.25

Vision U-Value 0.37 [Btu/h.ft².F]

Table 6: Wall Type B Vision U-Value



PERMASTEELISA NORTH AMERICA

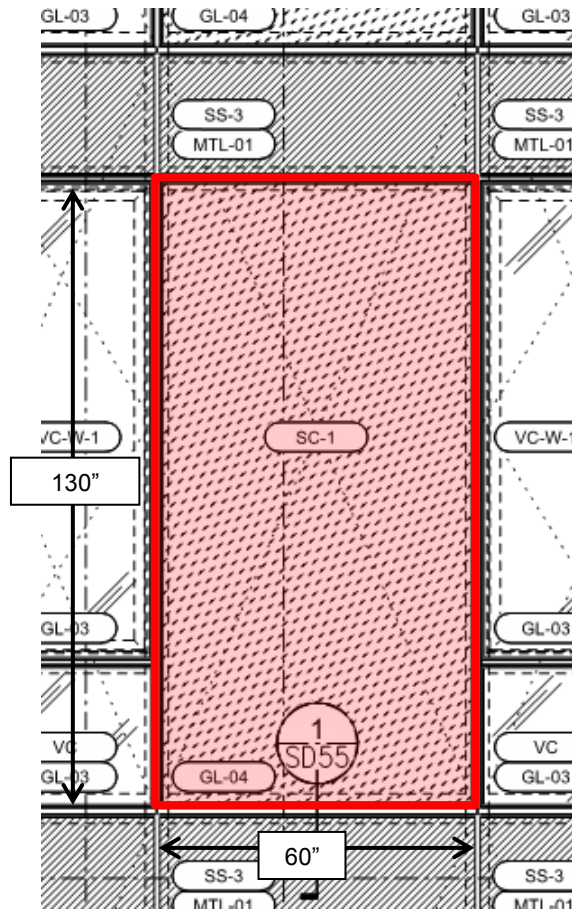


Figure 17: Typical Spandrel Unit

Components	U-Value [Btu/h.ft².F]	Area [in²]	Area [ft²]	U * A
Mullion - Vision / Spandrel	0.98	601.90	4.18	4.10
Left Section	0.37	308.13	2.14	0.79
Right Section	0.19	308.13	2.14	0.41
Transom - Metal / Spandrel	0.60	235.32	1.63	0.98
Top Section	0.39	132.18	0.92	0.36
Bottom Section	0.38	132.18	0.92	0.35
Spandrel Region	0.05	6082.18	42.24	2.11
Totals		7800	54	9.09
Overall U-Value 0.17 [Btu/h.ft².F]				

Table 7: Wall Type B Spandrel U-Value



PERMASTEELISA NORTH AMERICA

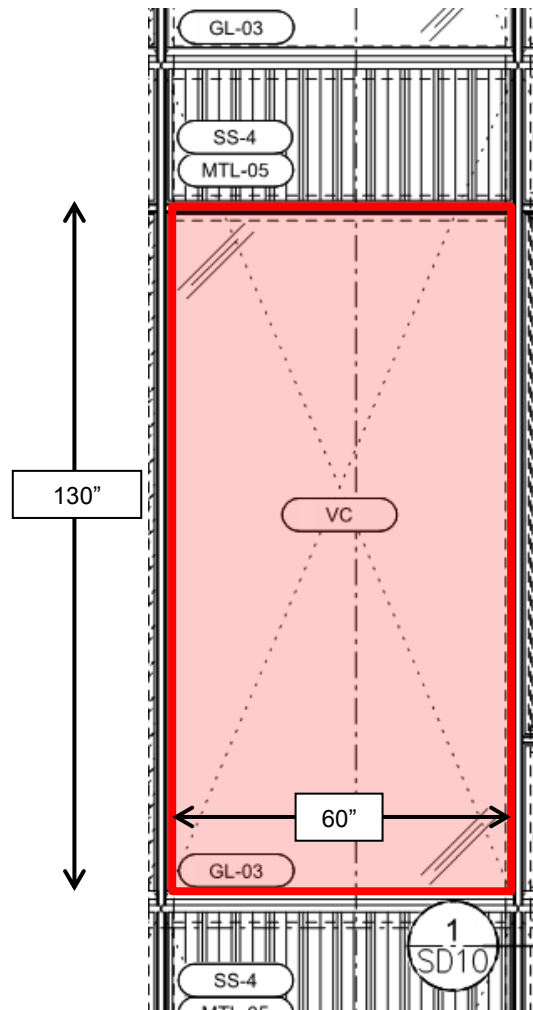


Figure 16: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Vision	1.05	601.90	4.18	4.39
Left Section	0.35	308.13	2.14	0.75
Right Section	0.35	308.13	2.14	0.75
Transom - Metal / Vision	1.21	235.32	1.63	1.98
Top Section	0.33	132.18	0.92	0.30
Bottom Section	0.36	132.18	0.92	0.33
Glass Vision	0.28	6082.18	42.24	11.83
Totals		7800	54	20.32
Vision U-Value	0.38 [Btu/h.ft ² .F]			

Table 6: Wall Type E Vision U-Value



PERMASTEELISA NORTH AMERICA

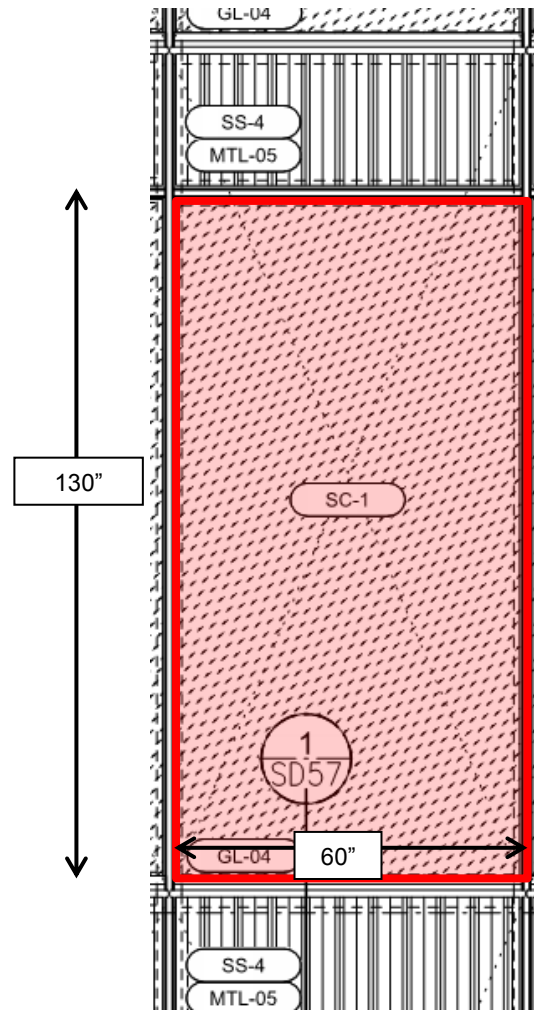


Figure 17: Typical Spandrel Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Spandrel / Spandrel	0.63	601.90	4.18	2.63
Left Section	0.24	308.13	2.14	0.51
Right Section	0.24	308.13	2.14	0.51
Transom - Metal / Spandrel	0.64	235.32	1.63	1.05
Top Section	0.41	132.18	0.92	0.38
Bottom Section	0.40	132.18	0.92	0.37
Glass Vision	0.04	6082.18	42.24	1.69
Totals		7800	54	7.14

Spandrel U-Value 0.13 [Btu/h.ft².F]

Table 7: Wall Type E Spandrel U-Value

Appendix A1b
Retail Curtain wall Specification – Performance Requirements

- 2.12.5.1. Two lites of glass bonded to a 1/16 inch minimum thickness clear, puncture-resistant thermoplastic interlayer.
- 2.12.5.2. Laminated glass shall meet the minimum requirements of ASTM C1172.
- 2.12.5.3. Interlayer shall be compatible with all glazing sealants.
- 2.12.5.4. Offset of glass edges at heat-treated laminated glass assemblies intended to be in alignment to be limited to 1/8 inch. Edge of laminated annealed glass to be ground and polished after lamination.
- 2.12.5.5. Laminated safety glass assemblies shall meet the requirements for safety glazing of CPSC standard 16 CFR 1201, Category II.
- 2.12.5.6. Manufacturer shall warrant that the laminated glass will not develop edge separation or other defects which may affect the structural integrity of the glass assembly or otherwise compromise the requirements of the glass for a period of ten [10] years.

2.12.6. Low-E Coated Glass:

- 2.12.6.1. Low-emissivity coating[s] shall be neutral in transmitted and reflected color and otherwise exhibit the visual and performance characteristics of the products specified herein.
- 2.12.6.2. Low-E coatings shall be applied through the MSVD [magnetic sputter vacuum deposition] process.
- 2.12.6.3. Visual quality control acceptance criteria of the low-E coating shall be consistent with industry guidelines, subject to approval of the Architectural Design Team:
 - 2.12.6.3.1. Pinholes with diameters in excess of 1/16 inch are not acceptable.
 - 2.12.6.3.2. Scratches no longer than 3 inches in length are acceptable provided that they occur within 3 inches of an edge.
 - 2.12.6.3.3. Clusters of pinholes are not acceptable.
- 2.12.6.4. Manufacturer shall warrant that the low-E coating will not crack, peel, fade or deteriorate for a period of ten [10] years.

2.12.7. Glass Products:

- 2.12.7.1. Insulated Bent Glass: Clear low-iron glass for use in an insulated assembly.
 - 2.12.7.1.1. Performance characteristics GL-51 [see Glass Schedule for make-up, Section 2.12.10] to be equal or better than the following:
 - 2.12.7.1.1.1.1. Reflected light: 15 percent [maximum]
 - 2.12.7.1.1.1.2. U-Value [Winter]: 0.31 btu-in/hr-sq ft F [maximum]
 - 2.12.7.1.1.1.3. Shading heat gain coefficient: 0.60 [maximum]
- 2.12.7.2. **Insulated Glass:**
 - 2.12.7.2.1. **Performance characteristics GL-54 [see Glass Schedule for make-up, Section 2.12.10] to be equal or better than the following:**

Worst case performance for Retail Glazing (IGU), used for energy model.

03

03

2.12.7.2.1.1.1. **U-Value [Winter]: 0.27 btu-in/hr-sq ft F [maximum]**

2.12.7.2.1.1.2. **Shading heat gain coefficient:
0.54 [maximum]**

03

2.12.7.3. Low-iron Glass:

2.12.7.3.1. All clear glass substrates to be low-iron, water white glass.

2.12.7.3.2. Low-iron glass in a 1/4 inch thickness shall have a minimum visible light transmission of 90 percent.

2.12.7.3.3. Acceptable products are:

2.12.7.3.3.1. Ultra White as manufactured by Guardian.

2.12.7.3.3.2. Ipanwhite as manufactured by Interpane Glas

2.12.7.3.3.3. Starphire as manufactured by PPG Industries.

2.12.7.3.3.4. Diamant as manufactured by Saint Gobain Glass.

2.12.7.3.3.5. **Optiwhite as manufactured by Pilkington.**

03

2.12.8. Glass Edges:

2.12.8.1. All exposed glass edges shall be ground and polished with brilliant edges of similar appearance to the front of the glass.

2.12.8.2. All butt glass edges shall be ground and swiped with chamfered arrises.

2.12.8.3. All other glass edges shall have a high-quality factory-cut edge.

2.12.8.4. All glass edges shall conform to the following requirements:

2.12.8.4.1. Shark teeth shall not be allowed.

2.12.8.4.2. Serration hackle shall not penetrate more than 10 percent of the glass thickness.

2.12.8.4.3. Flare shall not exceed 1/16 inch as measured perpendicular to the glass surface at the edge.

2.12.8.4.4. Bevel shall not exceed 1/16 inch.

2.12.8.4.5. Flake chips shall not exceed 1/32 inch in length nor 1/4 inch in diameter.

2.12.8.4.6. Rough chips exceeding the dimensions listed in Item e above shall not be permitted.

2.12.9. Approved Glass Manufacturers:

2.12.9.1. The following are approved glass manufacturers. Alternate manufacturers are subject to the approval of the Architectural Design Team.

2.12.9.1.1. Bent Glass:

2.12.9.1.1.1. Isoclima s.p.a.
Via lessandro Volta 14
35042 Este Padova
Italy



5.4 Overall U-Value

Area weighting of the U-values of frame sections and center-of-spandrel is used to calculate the overall frame U-value for WT-37 calculation.

Components	U-Value (Btu/h.ft ² .F)	Area (in ²)	Area (ft ²)	U * A
Mullion Spandrel Area	1.87	1157.81	8.04	15.06
Left/Male Edge	0.37	729.58	5.07	1.88
Right/Female Edge	0.37	729.58	5.07	1.88
Stack	1.23	813.54	5.65	6.94
Sill Edge	0.32	328.75	2.28	0.74
Gutter Edge	0.32	328.75	2.28	0.72
Spandrel	0.05	18142.00	125.99	6.35
Totals	0.00	22230.00	154.38	33.57

Overall U-Value	0.22 (Btu/h.ft ² .F)
------------------------	--

Table 5: Overall Thermal Transmittance of Wall Type 37

Appendix A2

Lighting Power Density Calculations

Back of House Fixtures		
Fixture Tag	Watts/Fixture	Qty
A1a	59.0	589
A2a	56.0	641
A2b	28.0	149
A3a	45.6	136
A3b	45.6	185
A4b	22.8	129
A5	40.0	33
A6	15.0	20
A7	172.0	88
A8	0.8	67
Total BOH Watts		109,207
Total BOH Model Area (sf)		124,054
Model w/sf		0.88

Amenities Fixtures						
Fixture Tag	Watts/Fixt or Watts/LF	Spec Method	Regular Fixture Qty/lf	Decorative Fixture Qty/lf	Regular Watts	Decorative Watts
LA-01	37	per fixture	36	0	1332	0
LA-02 (linear)	6	per linear foot	0	204	0	1224
LA-03	6.2	per linear foot	0	1	0	6
LA-05	19	per fixture	71	0	1349	0
LA-06	14	per fixture	8	0	112	0
LA-08	13	per fixture	3	0	39	0
LA-09	26	per fixture	9	12	234	312
LA-10	33	per fixture	2	0	66	0
LA-11	1.5	per linear foot	0	44	0	66
LA-12	50	per fixture	0	23	0	1150
LA-12A	50	per fixture	2	0	100	0
LA-13	6	per linear foot	0	30	0	180
LA-15	33	per fixture	5	0	165	0
LA-15A	36	per fixture	1	0	36	0
LA-17	10.1	per fixture	10	16	101	162
LA-18	100	per fixture	8	0	800	0
LA-21	14.4	per fixture	22	0	317	0
LA-21A	14	per fixture	6	4	84	56
LA-22	10.1	per fixture	3	0	30	0
LA-22A	10.1	per fixture	2	0	20	0
LA-22B	14.8	per fixture	20	0	296	0
LA-23	14	per fixture	20	0	280	0
LA-23A	14	per fixture	4	0	56	0
LA-24	36	per fixture	0	17	0	612
LA-25	6.23	per fixture	30	6	187	37
LA-26	2	per fixture	54	0	108	0
LA-27/LA-27A	13.1	per linear foot	284	0	3724	0
LA-28	6.3	per linear foot	5	0	32	0
LA-29	8	per linear foot	48	0	384	0
Total Watts					9,852	3,805
Total Amenities Model Area (sf)						19,848
w/sf - Regular						0.50
w/sf - Decorative						0.19

Residential Core Corridor Areas							
Tranche	Floor Area	Regular Watts	Decorative Watts	# Floors	Tranche Area	Total Regular Watts	Total Decorative Watts
Tranche 1	610	180	620	8	4880	1,440	4960
Tranche 2	340	82	130	14	4760	1,148	1820
Tranche 3/Tranche 4	358	125	130	63	22554	7,875	8190
Total Watts						10,463	14,970
Residential Model Area (sf)							560,618
Corridor Model Area (sf)							45,282
Total Area							605,900
Residential Watts (@ 0.7 w/sf)							392,432
Total Regular Watts							402,895
w/sf - Regular (total watts/total area)							0.66
w/sf - Decorative (Corridor only)							0.33

Appendix A3a
Lighting Fixture Schedules (BOH)



DEPT OF BLDGS121328205

Job Number

ES255741971

Scan Code

A 1a	FLOODLIGHT NOM :2' H X 9' W X 24" L, FINNED ALUMINUM HEAT SINKS AND FROSTED LENS WITH NO BAFFLE. LISTING: UL, CUL DAMP LOCATION LISTED.	ESSENTIALS BAY SERIES LW LUSIO ES2-2MS-40-PP- SAPN-277-TSD-NONDIM-MNO- C1SW-NOCEM	2	34.5	INTEGRAL LED 4000K, 75 CRI 5400 LUMENS	59	277	NON-DIM	CEILING CONDITIONS & SPECIFY MOUNTING ACCESSORIES MOUNTING HEIGHT MIN. 9'-0" MAX. 11'-0".
A 1b	NOT USED								
A 2a	WALL MOUNTED LED STAIR LIGHT NOM : 9-40" H X 48-45"W X 3-46" D. PROVIDED WITH CLEAR PRISMATIC LENS & INTEGRAL OCCUPANCY SENSOR. LISTING: UL DAMP LOCATION LISTED.	LUMINAIRE LED STAIR LIGHTER HP TSL 9-4-56WHP-4000K-M7-277- CP-COLOR	1	56	INTEGRAL LED 4000K, 80 CRI 4752 LUMENS	56	277	SELF-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH WALL CONDITIONS. MINIMUM MOUNTING HEIGHT 6'-0"
A 2b	WALL MOUNTED LED STAIR LIGHT NOM : 9-40" H X 25"W X 3-46" D. PROVIDED WITH CLEAR PRISMATIC LENS & INTEGRAL OCCUPANCY SENSOR. LISTING: UL DAMP LOCATION LISTED.	LUMINAIRE LED STAIR LIGHTER HP TSL 9-2-28WHP-4000K-M7-277- CP-COLOR	1	28	INTEGRAL LED 4000K, 80 CRI 2376 LUMENS	28	277	SELF-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH WALL CONDITIONS. MINIMUM MOUNTING HEIGHT 6'-0"
A 3a	CABLE MOUNTED LED INDUSTRIAL LINEAR NOM :3' H X 3' W X 48" L, WITH FROSTED LENS. LISTING: CSA US	TEMPO INDUSTRIES C7100 LED LINEAR CT-1-1-10-277-N-0-1-M06-C-40- S-NA-48"	1	45.6	INTEGRAL LED 4000K, 80 CRI 3788 LUMENS	46.6	277	NON-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH CEILING CONDITIONS & SPECIFY MOUNTING ACCESSORIES. MOUNTING HEIGHT MIN. 9'-0" MAX. 11'-0".
A 3b	CABLE MOUNTED LED INDUSTRIAL LINEAR NOM :3' H X 3' W X 48" L, WITH FROSTED LENS. LISTING: CSA US	TEMPO INDUSTRIES C7100 LED LINEAR CT-1-1-1-10-120-N-0-1-M06-C-40- S-NA-48"	1	45.6	INTEGRAL LED 4000K, 80 CRI 3788 LUMENS	46.6	120	NON-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH CEILING CONDITIONS & SPECIFY MOUNTING ACCESSORIES. MOUNTING HEIGHT MIN. 9'-0" MAX. 11'-0".
A 4a	NOT USED								
A 4b	CABLE MOUNTED LED INDUSTRIAL LINEAR NOM :3' H X 3' W X 24" L, WITH FROSTED LENS. LISTING: CSA US	TEMPO INDUSTRIES C7100 LED LINEAR CT-1-1-1-10-120-N-0-1-M06-C-40- S-NA-24"	1	22.8	INTEGRAL LED 4000K, 80 CRI 1894 LUMENS	22.8	120	NON-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH CEILING CONDITIONS & SPECIFY MOUNTING ACCESSORIES. MOUNTING HEIGHT MIN. 9'-0" MAX. 11'-0".
A 5	WAL PAC EXTERIOR LED FLOODLIGHT NOM :10" H X 13" W X 17" L, WITH BOROSILICATE LENS. LISTING: UL, CUL WET LOCATION LISTED.	COOPER LIGHTING STREETWORKS WKP-4A-LED-277-GL-COLOR	1	40	INTEGRAL LED 4000K, 67 CRI	40	277	NON-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH WALL CONDITIONS & SPECIFY MOUNTING ACCESSORIES AS REQUIRED.
A 6	WALL MOUNTED UTILITY LIGHT LED, WITH FROSTED LENS.	LITHONIA LIGHTING OLVTVM	1	15	INTEGRAL LED 4000K, 600 LUMENS	15	UNV	NON-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH WALL CONDITIONS.
A 7	CABLE MOUNTED LED INDUSTRIAL FLOODLIGHT NOM :2' H X 19" W X 24" L, FINNED ALUMINUM HEAT SINKS AND CLEAR LENS WITH NO BAFFLE. LISTING: UL, CUL DAMP LOCATION LISTED.	LUSIO ESSENTIALS BAY SERIES LW LUSIO ES2-6MS-40-CA- SAPN-277-TSD-NONDIM-MNO- C1SW-NOCEM	6	29	INTEGRAL LED 4000K, 75 CRI 18,200 LUMENS	172	277	NON-DIM	CONTRACTOR TO COORDINATE MOUNTING WITH CEILING CONDITIONS & SPECIFY MOUNTING ACCESSORIES. MOUNTING HEIGHT MIN.18'-0" MAX. 25'-0".

NOTES

- 1.1 ALL FINAL COLOR TRIMS FINISH TO BE APPROVED BY ARCHITECT.
- 1.2 REFER TO ELECTRICAL PLANS FOR FINAL LOCATION OF ALL EMERGENCY FIXTURES
- 1.3 NOT USED
- 1.4 NOT USED
- 1.5 ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECT FOR LOCATION OF LIGHTING SWITCHES AND DIMMERS.
- 1.6 WHEN "EM" IS INDICATED IN THE ELECTRICAL PLAN, FIXTURE SHALL BE WIRED TO BE CONNECTED TO EMERGENCY GENERATOR. COORDINATION WITH ELECTRICAL SPECIFICATIONS REQUIRED.

0 4'-0" 8'-0" 16'-0"

DOB SUBMISSION

Discrepancies must be reported immediately to the Architect before proceeding. Only figured dimensions are to be used. Contractors must check all dimensions on site. This drawing is protected by copyright.

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT:

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1501 BROADWAY, SUITE 700
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Projects • Rentals • Moving City • Homebased • Other Use
Reliability • Creativity • Quality • Expertise • Innovation

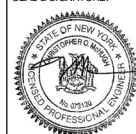
PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

ELECTRICAL
COVER SHEET

SEAL & SIGNATURE:



DATE: 04/04/14

PROJECT No: Y130747-000

DRAWN: PW REV: 6

CHK: EA

SCALE: As indicated

DWG No:

E-000.00

DOB PAGE No: 1 of 97

DOB EMPLOYEE STAMP:

DOB B-SCAN:

Appendix A3b
Lighting Fixture Schedules (Main Building)

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
AMENITIY FLOORS INTERIOR LIGHTING			
LA-01	Recessed 4" square aperture fixed LED downlight with overlap flange for 22' high ceiling - dimmable <u>Location:</u> 8 th Floor Lounge & Banquet Hall	3000K White LEDs 3000 engine lumens <u>Watts:</u> 37W <u>Voltage:</u> 120V <u>Power Supply:</u> Lutron Hi-Lume Class A 1% dimming driver for use with dimming controls (specified by others)	INDY SDSQ4-30-30-1-PD SDSQ4-SA-F-PF-(accessories) Provide clear (SA) cone finish and white (PF) overlap flange finish; Contractor to confirm hanging bar selection
LA-02	Surface mounted linear LED strip light for cove applications - dimmable <u>Location:</u> 8 th Floor Tween Lounge, Reception, & Banquet Hall	3000K White LED 242 lumens per foot <u>Watts:</u> 6W/lf <u>Voltage:</u> 100-277VAC <u>Driver:</u> Internal, no external power supply required; compatible with reverse-phase ELV type dimmers	PHILIPS COLOR KINETICS eW Cove QLX Powercore Item # 523-000004-22 Refer to architectural drawings for run lengths and mounting details; fixture to be completely hidden from view by cove construction; supply with mounting track, leader and jumper cables as required per manufacturer's recommendations for a complete system
LA-03	Recessed continuous LED lensed slot in vertical inverted "U" configuration - dimmable <u>Location:</u> 8 th Floor Lounge (fabric wall)	3000K White LED 368 lumens per foot <u>Watts:</u> 6.23W/lf <u>Voltage:</u> 120-277V <u>Driver:</u> Internal, no external power supply required	PINNACLE E2A-30-(Inverted "U")-FL-UNV-1D-W-E2CI The fixture shall be in a vertical inverted "U" configuration with (2) 90° inside corners – (niche wall height x niche length x niche wall height); mounting detail to be coordinated; with white overlap flange finish; manufacturer's shop drawings showing run length, configuration, and mounting required for approval

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-03A	<p>Recessed continuous LED lensed slot in vertical inverted "U" configuration - dimmable</p> <p><u>Location:</u> 8th Floor Lounge (onyx wall)</p>	<p>3000K White LED 368 lumens per foot</p> <p><u>Watts:</u> 6.23W/lf <u>Voltage:</u> 120-277V <u>Driver:</u> Internal, no external power supply required</p>	<p>PINNACLE E2A-30-(Inverted "U")-FL-UNV-1D-W-E2CI</p> <p>The fixture shall be in a vertical inverted "U" configuration with (2) 90° inside corners – (onyx wall height x onyx wall length x onyx wall height); mounting detail to be coordinated; with white overlap flange finish; manufacturer's shop drawings showing run length, configuration, and mounting required for approval</p>
LA-04	<p>Custom decorative LED chandelier with multiple small glowing globes - dimmable</p> <p><u>Location:</u> 8th Floor Lounge</p>	<p>3000K LEDs</p> <p><u>Watts:</u> Allow 300W Max. <u>Voltage:</u> 120V <u>Power Supply:</u> Remote, dimmable (to be coordinated)</p>	<p>Custom Fixture – specification and design to be coordinated with Rottet Studio</p>
LA-05	<p>Recessed 4" round aperture fixed LED downlight with overlap flange</p> <p><u>Location:</u> 8th & 10th Floor Restrooms/Locker Rooms</p>	<p>3000K White LEDs 1500 engine lumens</p> <p><u>Watts:</u> 19W <u>Voltage:</u> 120V <u>Power Supply:</u> Integral, non-dim</p>	<p>INDY SD4-15-30-1 SD4-SA-F-PF</p> <p>Provide clear (SA) cone finish and white (PF) overlap flange finish</p>

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-06	<p>Recessed 4" round aperture fixed LED downlight with overlap flange and wet location listing</p> <p><u>Location:</u> 8th & 10th Floor Shower Stalls</p>	<p>3000K White LEDs 1100 engine lumens</p> <p><u>Watts:</u> 14W <u>Voltage:</u> 120V <u>Power Supply:</u> Integral, non-dim</p>	<p>INDY SD4-15-30-1 SD4-SA-F-PF-WET Provide clear (SA) cone finish and white (PF) overlap flange finish; manufacturer to confirm that wet location rating is suitable for shower application</p>
LA-07	<p>Surface mounted white LED strip light located on top and under mirror to illuminate stone/tile wall</p> <p><u>Location:</u> Restrooms/Locker Rooms (vanity-sink)</p>	<p>3000K White LED 281 lumens per foot</p> <p><u>Watts:</u> 3W/lf <u>Voltage:</u> 120V <u>Power Supply:</u> Remote, non-dimming</p>	<p>VODE 707-Z1-01-(rail length)-C-AA-1-1-0 0-Z-LO-30-1-AL-0 Refer to architectural drawings for overall run lengths; with clip mounting – mounting and detail to be coordinated with Rottet Studio</p>
LA-08	<p>Recessed 4" round aperture fixed downlight for steam saunas</p> <p><u>Location:</u> 8th and 10th Floor Steam Saunas</p> <p><u>Not within Extell preferred vendor package</u></p>	<p>3000K LEDs 80 CRI</p> <p>1114 delivered lumens</p> <p>36° Beam Angle</p> <p><u>Watts:</u> 13W <u>Voltage:</u> 120V <u>Power Supply:</u> Dimmable driver (#A1-DRIVE-L0326-00-00-17-RP00)</p>	<p>CANTALUPI "Luna 13NC" #D3-LUA92-L1330-36-WS-03-8065 With matte white finish; provide Solite-style glass lens; IP65 listing</p>

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-09	<p>Recessed 4" square aperture fixed LED downlight with overlap flange for 16' high ceiling</p> <p><u>Location:</u> 8th Floor Reception, Billiards & Banquet Hall</p>	<p>3000K White LEDs 2000 engine lumens</p> <p><u>Watts:</u> 26W <u>Voltage:</u> 120V <u>Power Supply:</u> Lutron Hi-Lume Class A 1% dimming driver for use with dimming controls</p>	<p>INDY SDSQ4-20-30-1-PD SDSQ4-SA-F-PF Provide clear (SA) cone finish and white (PF) overlap flange finish</p>
LA-10	<p>Surface ceiling mounted frosted lensed linear fluorescent closet light with occupancy sensor—nominal 4' length</p> <p><u>Location:</u> Closets</p>	<p>FP28/ECO/830</p> <p><u>Watts:</u> 33W <u>Voltage:</u> 120V-277V <u>Ballast:</u> Integral, program rapid start electronic <u>Control:</u> Passive infrared occupancy sensor</p>	<p>BARTCO <i>Essence Collection</i> IPR5MS-1-28W-U-PRS-F-SMC-WH Architect to confirm white finish</p>
LA-11	<p>Surface mounted lensed white LED strip light with remote power supply mounted underneath bench – wet location listed</p> <p><u>Location:</u> Saunas (underneath bench)</p>	<p>3000K White LED 108 lumens per foot</p> <p>120° beam angle</p> <p><u>Watts:</u> 1.5W/lf <u>Voltage:</u> 120V (24V) <u>Power Supply:</u> Remote, non-dimming (must be located outside of sauna) <u>Control:</u> Run length to be controlled by nearby wall switch <u>Ambient Temperature:</u> 45°C (113°F Max.)</p>	<p>LEDLinear "VarioLED Flex Hydra LD5" Art. #10081 "VarioContour 003" – mounting channel – Art. #10000000 "VarioCover 003/006 R Clear" – lens – Art. # 12000002 Refer to architectural drawings for overall run lengths; fixture mounted underneath bench seat with mounting channel and IP67 plug in connectors; provide clips and end caps as required for a complete system</p>

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than ¾") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-12	<p>Recessed 4x7 rectangular aperture adjustable LED downlight with overlap flange with marine grade materials/finish-dimmable</p> <p><u>Location:</u> 10th Floor Pool Room</p> <p><u>Not within Extell preferred vendor package</u></p>	<p>3000K White LEDs 6000 engine lumens per LED module (12,000 lumens total)</p> <p><u>Watts:</u> Allow 50W Max. <u>Voltage:</u> 120V <u>Power Supply:</u> Lutron Hi-Lume Class A 1% dimming driver for use with dimming controls (specified by others)</p>	<p>CANTALUPI "DIVA 7 RQ" #D2-DIVRQ-L2830-36-WS-07-8000/MOD (6000lm module) Fixture must be rated for saltwater pool environment – marine grade</p>
LA-13	<p>Surface mounted linear LED strip light for cove application with corrosive resistant coating for saltwater pool environment - dimmable</p> <p><u>Location:</u> 10th Floor Pool Room</p> <p><u>Not within Extell preferred vendor package</u></p>	<p>3000K White LEDs 430 lumens per foot (approx.)</p> <p><u>Watts:</u> 6W/lf <u>Voltage:</u> 120V <u>Driver:</u> Internal, no external power supply required; 0-10V type dimmer required (specified by others)</p>	<p>LUMENPULSE LXT RO-120-12-30K-SAM-SI-DIM-CRC Refer to architectural drawings for run lengths and configurations; mounting detail to be coordinated; with silver finish; supply with slim adjustable mounting track, leader and jumper cables as required per manufacturer's recommendations for a complete system</p>
LA-13A	NOT USED		

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

217 WEST 57TH STREET, NEW YORK

Project No: 1216-00

SECTION 26 51 10

ARCHITECTURAL LIGHTING

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-14	<p>Surface mounted lensed white LED strip light with remote power supply for shelf lighting - dimmable</p> <p><u>Location:</u> 8th Floor Banquet Hall (Wine Rack Shelf)</p>	<p>3000K White LED 309 lumens per foot (board) 85 CRI</p> <p><u>Watts:</u> 2.9W/lf <u>Voltage:</u> 120V-277V (24V) <u>Power Supply:</u> Remote, dimming power supplies</p>	<p>LEDLinear "VarioLED Flex Hydra HD10" Art. #10176 10000301 – Mounting Profile for Lens 10000039 – Mounting Profile 12000013 – Opal Lens Refer to architectural drawings for overall run lengths and details; fixture available in 2.5in minimum lengths; fixture mounted into grooved slot with channel and opal lens at each shelf to graze up wall surface; refer to architectural drawings for shelf details; fixture length to run width of shelf; lens to be flush with bottom of millwork</p>
LA-15	<p>Recessed mounted linear fluorescent 2.75" wide lensed slot fixture – nominal 4ft length</p> <p><u>Location:</u> Women's and Men's Restroom/Locker Niches</p>	<p>F28T5/830/ALTO</p> <p><u>Watts:</u> 33W <u>Voltage:</u> 120-277V <u>Ballast:</u> Internal, non-dim</p>	<p>PINNACLE E2A-1T5-4-SFS-120-1C-W Provide spackle flange; with white trim finish</p>
LA-15A	<p>Recessed mounted linear fluorescent 2.75" wide lensed slot fixture – nominal 3ft length</p> <p><u>Location:</u> Women's Restroom Niche</p>	<p>F21T5/830/ALTO</p> <p><u>Watts:</u> 36W <u>Voltage:</u> 120-277V <u>Ballast:</u> Internal, non-dim</p>	<p>PINNACLE E2A-1T5-3-SFS-120-1C-W Provide spackle flange; with white trim finish</p>
LA-16	NOT USED		

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination. Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-17	Recessed 3" round aperture fixed LED downlight with overlap flange <u>Location:</u> Restrooms/Locker Rooms (above sinks)	3000K White LEDs 600 engine lumens <u>Watts:</u> 10.1W <u>Voltage:</u> 120V <u>Power Supply:</u> Integral, non-dim	JUNO 2C-830-N-1-CLW-(accessories) Provide clear cone and white trim ring finish
LA-17A	NOT USED		
LA-18	Custom decorative LED or CFL scone <u>Location:</u> 10 th Floor Pool Room	LED or CFL <u>Watts:</u> Allow 100W MAX. <u>Voltage:</u> 120V <u>Power Supply:</u> Integral, dimmable	Custom Fixture – specification and design to be coordinated with Rottet Studio; provide material/finish suitable for saltwater pool room environment
LA-19	NOT USED		
LA-20	NOT USED		
LA-21	Recessed LED 4" square aperture fixed downlight with overlap flange <u>Location:</u> Public Corridors	3000K White LEDs 1100 engine lumens <u>Watts:</u> 14.4W <u>Voltage:</u> 120V <u>Power Supply:</u> Integral	INDY SDSQ4-11-30-1 SDSQ4-SA-PF Provide clear (SA) cone finish and white (PF) overlap flange

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-21A	<p>Recessed LED 4" square aperture fixed downlight with overlap flange - dimmable</p> <p><u>Location:</u> Tween Lounge</p>	<p>3000K White LEDs 1100 engine lumens</p> <p><u>Watts:</u> 14W <u>Voltage:</u> 120V <u>Power Supply:</u> Integral, reverse phase dimming (120V only)</p>	<p>INDY SDSQ4-11-30-1-R SDSQ4-SA-PF Provide clear (SA) cone finish and white (PF) overlap flange</p>
LA-22	<p>Recessed pinhole square aperture adjustable LED downlight with overlap flange - dimmable</p> <p><u>Location:</u> Tween Lounge</p>	<p>3000K White LEDs 700 engine lumens</p> <p><u>Watts:</u> 10.1W <u>Voltage:</u> 120-277V <u>Power Supply:</u> Integral, 0-10V dimming</p>	<p>ACULUX TC207LSQAR-830-N-U 2008SQHZ-SFWH Provide white trim finish</p>
LA-22A	<p>Recessed pinhole square aperture adjustable LED downlight with overlap flange for wood ceiling - dimmable</p> <p><u>Location:</u> Lounge (TV niche)</p>	<p>3000K White LEDs 700 engine lumens</p> <p><u>Watts:</u> 10.1W <u>Voltage:</u> 120-277V <u>Power Supply:</u> Integral, 0-10V dimming</p>	<p>ACULUX TC207LSQAR-830-N-U 2008SQHZ-SF Provide self-flanged haze finish for wood ceiling installation</p>
LA-22B	<p>Recessed pinhole square aperture adjustable LED downlight with overlap flange - dimmable</p> <p><u>Location:</u> Reception</p>	<p>3000K White LEDs 1000 engine lumens</p> <p><u>Watts:</u> 14.8W <u>Voltage:</u> 120-277V <u>Power Supply:</u> Integral, 0-10V dimming</p>	<p>ACULUX TC207LSQAR-830-N-U 2008SQHZ-SFWH Provide white trim finish; output of fixture to be confirmed with signage</p>

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-23	Recessed LED 4" square aperture lensed wallwasher with overlap flange <u>Location:</u> Corridor	3000K White LEDs 1100 engine lumens <u>Watts:</u> 14W <u>Voltage:</u> 120V <u>Power Supply:</u> Integral, non-dim	INDY SDSQ4-11-30-1 SAWSQ4-SA-F-PF-(accessories) Provide clear (SA) cone finish and white (PF) overlap flange
LA-24	Surface mounted LED or CFL decorative sconce <u>Location:</u> Elevator Lobby	3000K LEDs or CFL <u>Watts:</u> Allow 36W Max. <u>Voltage:</u> 120V <u>Power Supply:</u> Integral, non-dim	Custom Fixture – specification and design to be coordinated with Rottet Studio
LA-25	Recessed mounted linear LEDCO 2.75" wide lensed slot fixture – multiple lengths– perimeter mounted - dimmable <u>Location:</u> 8 th and 10 th Floor Niches	3000K White LED 368 lumens per foot <u>Watts:</u> 6.23W/lf <u>Voltage:</u> 120-277V <u>Driver:</u> Internal, dimmable no external power supply required	PINNACLE E2A-30-(lengths)-SFS-UNV-1D-W-PM Refer to architectural drawings for run lengths; fixture perimeter mounted onto one wall – provide spackle flange on opposite side; with white trim finish; manufacturer's shop drawings showing run lengths and mounting required for approval
LA-26	Modified decorative cylindrical LED pendant with frosted diffuser "tip" - dimmable <u>Location:</u> 8 th Floor Banquet Hall <u>Not within Extell preferred vendor package</u>	3000K LEDs (Lumens to be determined) <u>Watts:</u> (Allow 2W each) <u>Voltage:</u> 120-277V <u>Driver:</u> Remote, dimmable	VIBIA "SLIM" 0920-03-MOD/Brass Finish and High Output LEDs and Small Canopy Modified with brass finish, small diameter canopy, and high output LEDs – to be coordinated with manufacturerREC

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination. Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-27	Pendant mounted linear LED lensed slot fixture – nominal 8ft length - dimmable <u>Location:</u> 10 th Floor Gym and Rock Climbing Wall Classroom	3000K High Output LEDs 819 lumens/ft <u>Watts:</u> 13.1W/lf <u>Voltage:</u> 120V <u>Driver:</u> Internal, 0-10V dimmable	PINNACLE EX6-A-30HO-8-AC48JB-120V-1D-CC-CC With aircraft cable j-box mounting; fixture mounted above slat opening with bottom of fixture aligned with bottom of slats, centered; final spacing and locations to be confirmed
LA-27A	Pendant mounted linear LED lensed slot fixture – nominal 4ft length - dimmable <u>Location:</u> 10 th Floor Gym and Rock Climbing Wall Classroom	3000K High Output LEDs 819 lumens/ft <u>Watts:</u> 13.1W/lf <u>Voltage:</u> 120V <u>Driver:</u> Internal, 0-10V dimmable	PINNACLE EX6-A-30HO-4-AC48JB-120V-1D-CC-CC With aircraft cable j-box mounting; fixture mounted above slat opening with bottom of fixture aligned with bottom of slats, centered; final spacing and locations to be confirmed
LA-28	Surface mounted LED grid panel system - dimmable <u>Location:</u> 8 th Floor Banquet Hall (back light onyx wall)	3000k LEDS 880 lumens per FT 7mm pitch <u>Watts:</u> 6.3W/FT <u>Voltage:</u> 58VDC <u>Driver:</u> Remote, 0-10V dimmable Class II power supply	COOLEGE SP-LLS-07-R01-(width)-(length)-K30-(wire length) Sample of onyx wall material required for mock-up and detail coordination with Rottet Studio; final specification to be determined

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.

217 WEST 57TH STREET, NEW YORK
Project No: 1216-00

SECTION 26 51 10
ARCHITECTURAL LIGHTING

PART 4 LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP / ELECTRICAL	MANUFACTURER / CATALOG #
LA-29	Surface mounted linear LED strip light with wide beam distribution-dimmable <u>Location:</u> 10 th Floor Spa (barrisol ceiling)	3000K White LED 475 lumens per foot 125° x 120° beam angle <u>Watts:</u> 8W/lf <u>Voltage:</u> 100-277VAC <u>Driver:</u> Internal, no external power supply required; compatible with reverse-phase ELV type dimmers	PHILIPS COLOR KINETICS eW Cove MX Powercore Item # 523-000050-31 Fixture to run entire length of barrisol ceiling opening and be spaced 12" on center; supply with mounting track, leader and jumper cables as required per manufacturer's recommendations for a complete system
LA-FL	Decorative floor lamp <u>Location:</u> 8 th Floor Lounge, Cigar Room, Billiards		To be selected – refer to FF&E package for information
LA-TL	Decorative table lamp <u>Location:</u> 8 th Floor Lounge, Cigar Room, Billiards		To be selected – refer to FF&E package for information
AMENITIY 8 th FLOOR TERRACE EXTERIOR LIGHTING			
LAX-01	PVC fixture mounted LED tree uplight – dimmable <u>Location:</u> Trees	3000K White LEDs 361 lumens 20° Beam <u>Watts:</u> 10W <u>Voltage:</u> 12V <u>Driver:</u> Integral within the module	KIM LIGHTING KLVL202BL-EP17-SL Landscape architect to confirm PVC fixture mounting (EP17) and black finish; with spread lens (SL); sample of fixture required for Lighting Designer review

- Notes:
1. Electrical Engineer to confirm voltage.
 2. Contractor shall verify all catalog codes with drawn and written descriptions.
 3. Architect to verify all fixture finishes.
 4. Architect to verify ceiling all ceiling materials and thicknesses for fixture trim coordination.
Thick ceilings (greater than 3/4") may require modifications to fixtures.
 5. Color temperature (3000K) to be confirmed by Extell.



EN1: Energy Cost Budget Worksheet

Must be typewritten

Do Not Submit Separately.
Must be incorporated in the drawing set.

1	Location Information <i>Required for all applications.</i>				
House No(s)	221	Street Name West 57th Street			
Borough	Manhattan	Block	1029	Lot	14
				BIN	1080870
					CB No. 105
Work on Floor(s)	SC3 thru 93				Apt/Condo No(s) n/a

2 Applicant Information <i>Required for all applicants.</i>				
Last Name McHugh		First Name Christopher		
Business Name AKF Group		Middle Initial		
Business Address 1501 Broadway, Suite 700		Business Telephone 646-758-0900		
City New York		State NY	Zip 10036	Business Fax
E Mail		Mobile Telephone		
		License Number 73130		

Energy Model Inputs			
Envelope	NYC approved energy model software: eQUEST v3.6.4	Proposed Design	Budget (Standard Design) Input
Above-grade wall U-factor	0.182	0.094	0.094
Below-grade wall U-factor	0.204	0.094	0.094
Floor construction U-factor	0.08	0.048	0.048
Interior floor U-factor	0.04	0.04	0.04
Slab-on-grade construction (yes/no)	0.04	0.04	0.04
Windows to ground wall ratio	0.405	0.207	0.207
Average fenestration assembly U-factor	0.411	0.508	0.508
Average fenestration assembly SHGC	0.514	0.4	0.4
Fixed shading devices (yes/no)	No	No	No
Automated movable shading devices (yes/no)	No	No	No
Lighting			
Average ambient lighting power density (W/ft²)	0.8837	0.9271	0.9271
Lighting occupant sensor controls (yes/no)	No	No	No
Automatic dimming controls (yes/no)	No	No	No
Interior lighting power (indirect surfaces) (W)	0.0	0.10	0.10
Interior lighting power (non-transparent surfaces) (W)	55.56	56.56	56.56
Heating, Ventilating & Air Conditioning			
Refrigeration equipment type	Retail, VAV units w/ Air Cooled Chillers / BDH, Ametec/ Pigeon Valley w/ Water Cooled Compressor / Residential: PTHF units and Heat Recovery Ventilation Units	Residential: PTHF units and Heat Recovery Ventilation Units	Residential: PTHF units and Heat Recovery Ventilation Units
Heating equipment type	Heat-Buffers / Ametec/ BDH, Pigeon Valley w/ Heat Pump Heating / Residential: PTHF units, HW Baseboard and Heat Recovery Ventilation Units	Heat-Buffers / Ametec/ BDH, Pigeon Valley w/ Heat Pump Heating / Residential: PTHF units, HW Baseboard and Heat Recovery Ventilation Units	Heat-Buffers / Ametec/ BDH, Pigeon Valley w/ Heat Pump Heating / Residential: PTHF units, HW Baseboard and Heat Recovery Ventilation Units
Demand controlled ventilation (yes/no)	No	No	No
Economizer type (air or water)	Air	Air	Air
Domestic hot water heating source	Residential - Electric / Residential - Hot Water	Residential - Electric / Residential - Hot Water	Residential - Electric / Residential - Hot Water

01/11

EN-

Unregulated Energy	Proposed Design Input	Budget (Standard Design) Input
Average Receptacle equipment power density (W/SF)	0.397	0.397
Average Unregulated lighting power density (W/SF)	N/A	N/A
Other process loads	Elevators - 209 kW fluctuating with anticipated occupancy throughout day	Elevators - 209 kW fluctuating with anticipated occupancy throughout day

Energy Cost Budget Conformance	Proposed Design Output	Budget (Standard Design) Output
Annual Regulated Energy Cost (\$)	3,278,658	3,573,947
Annual Regulated Energy Use (BTU/GSF)	70,116	71,769
Annual Regulated Energy Cost Per Sq. Ft. (\$/GSF)	2,746	2,993

Energy Model Output Breakdown		
Energy Use Breakdown	Proposed Design Output % Btu/yr	Budget (Standard Design) Output % Btu/yr
Heating	24	20
Cooling	12	15
Heat rejection	0	0
Fans	15	9
Lighting	16	11
Lifting	16	15
Unregulated loads (e.g., plug loads, elevators, escalators, kitchen, process equipment, exterior lighting)	16	16
Total	100%	100%

Falsification of any statement is a misdemeanor under § 26-124 of the NYC Administrative Building Code and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

Name (please print)
Christopher McHugh

Signature _____



P.E. / R.A. Seal (apply seal, then sign and date over seal)

01/11

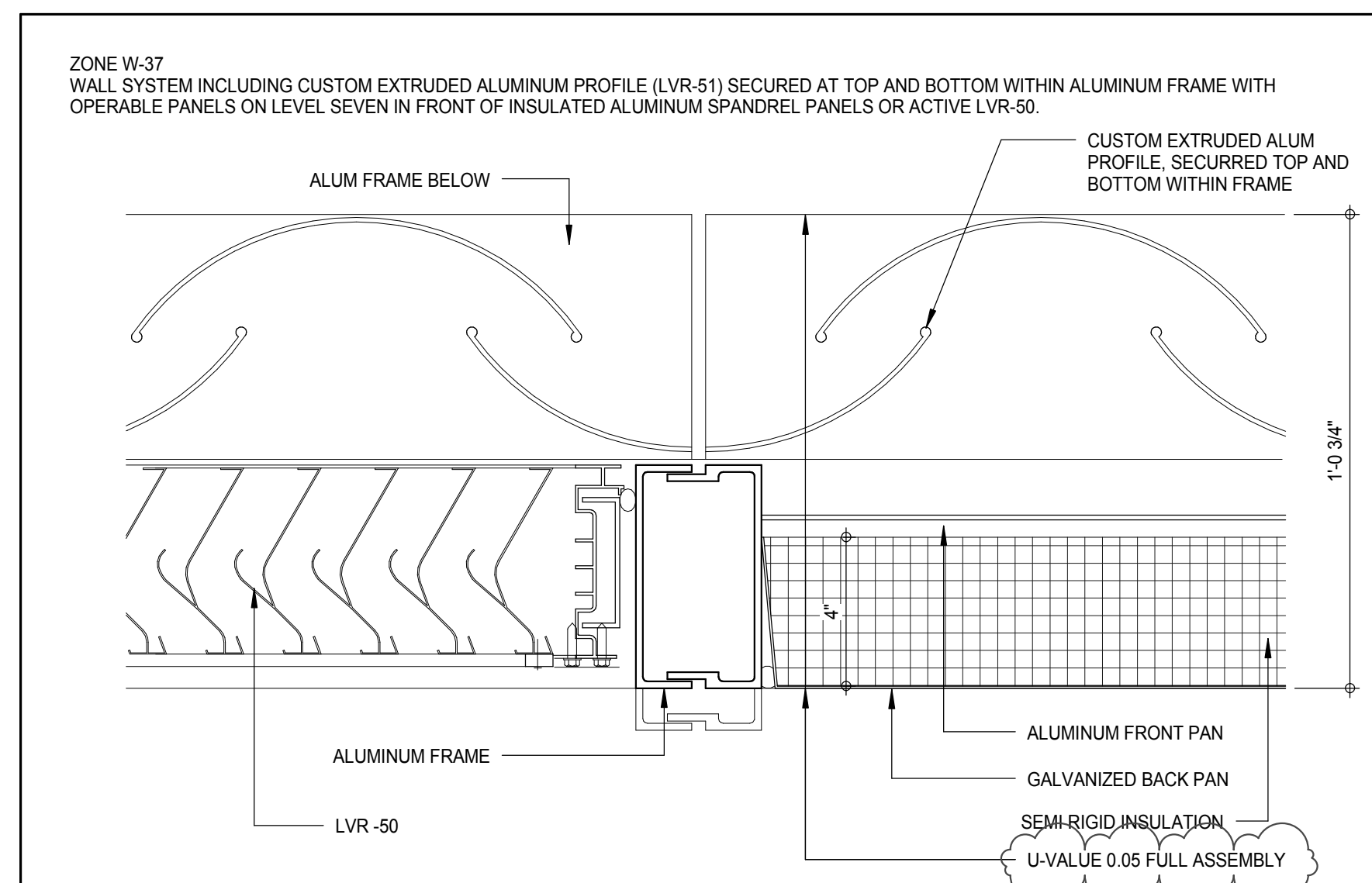
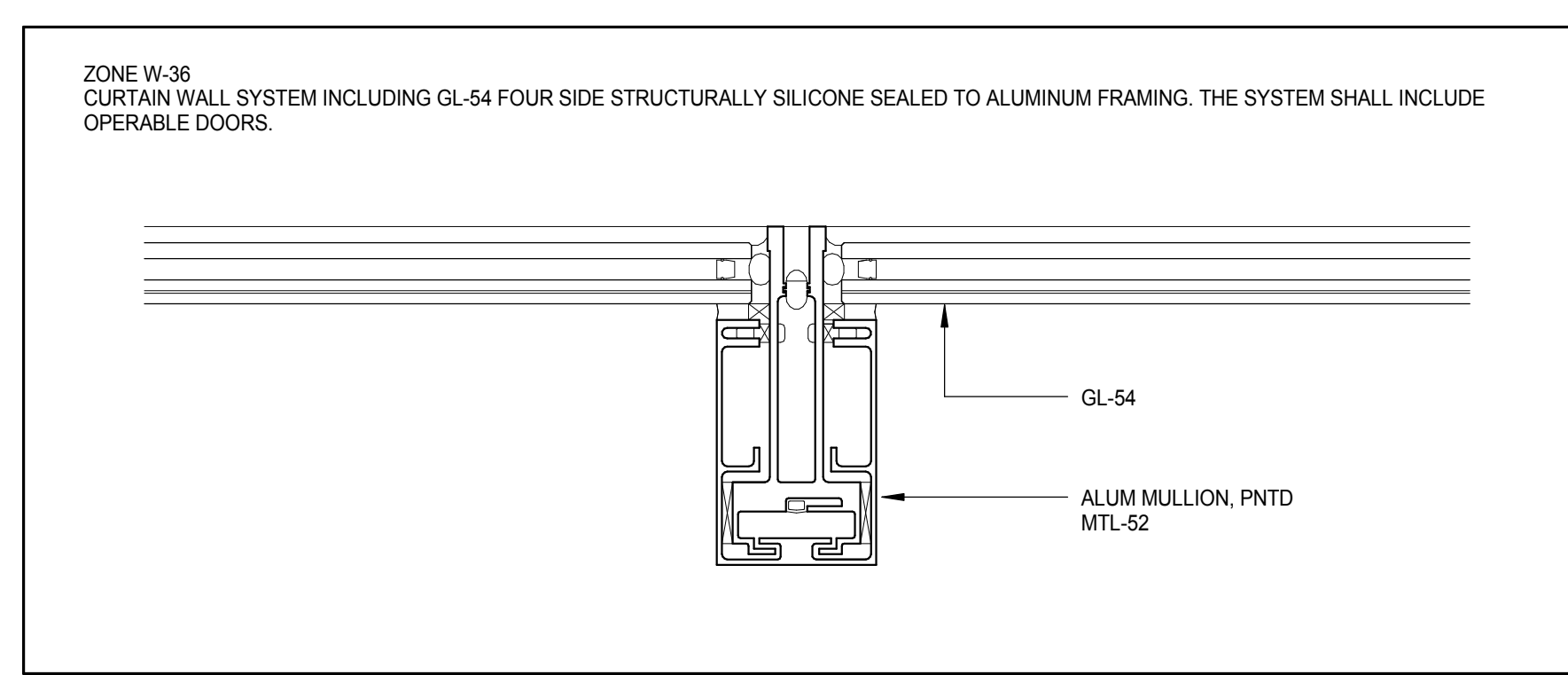
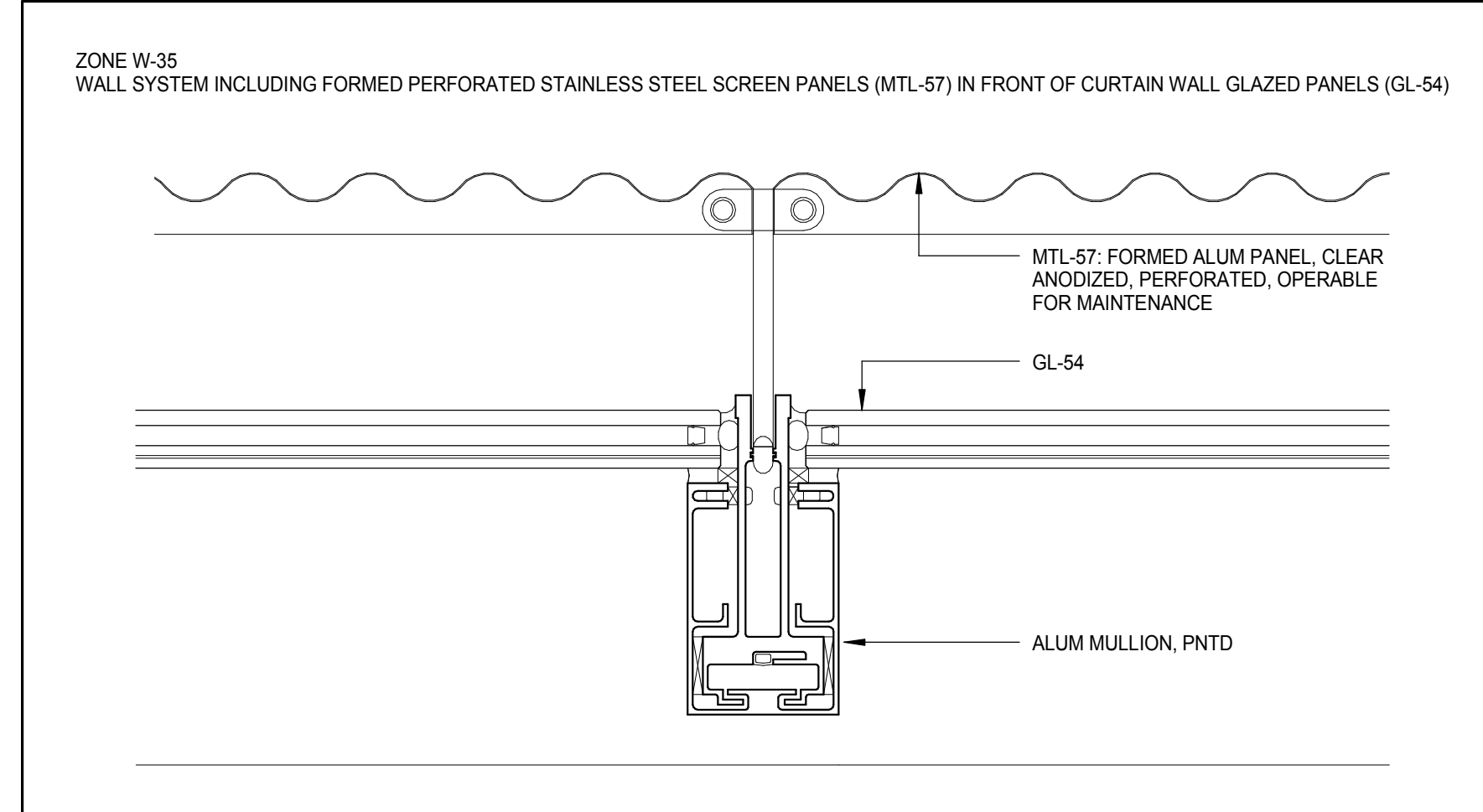
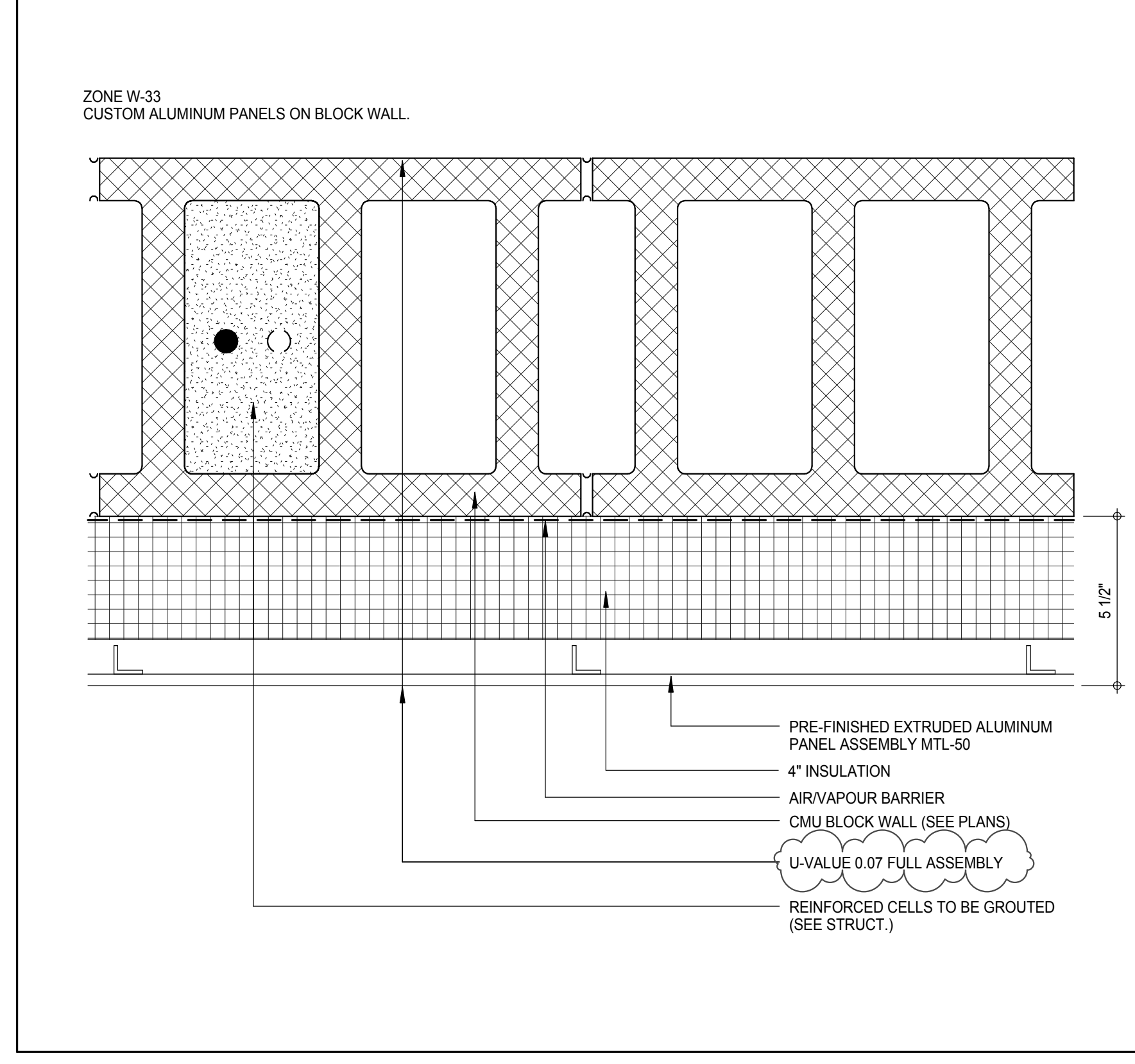
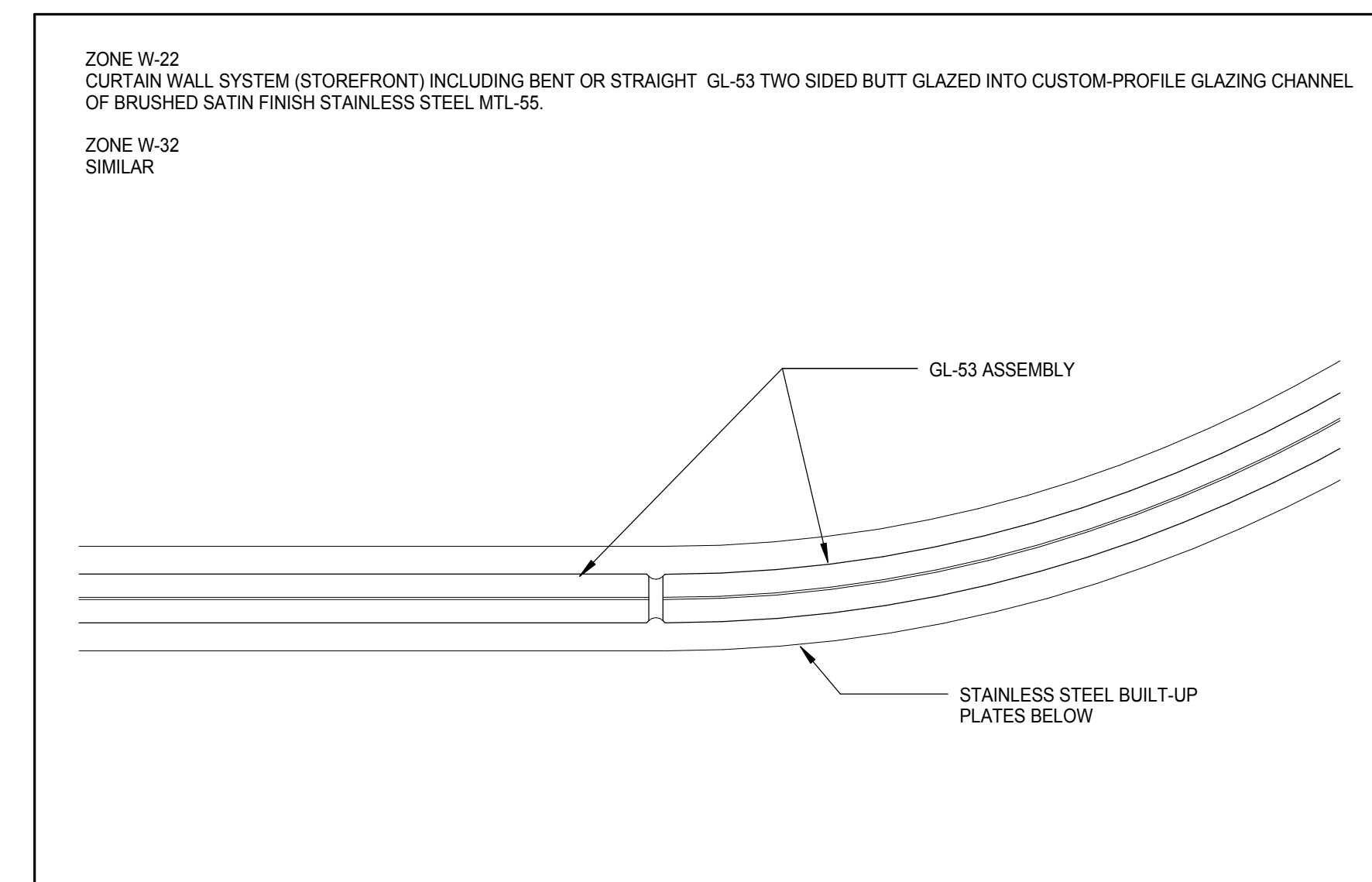
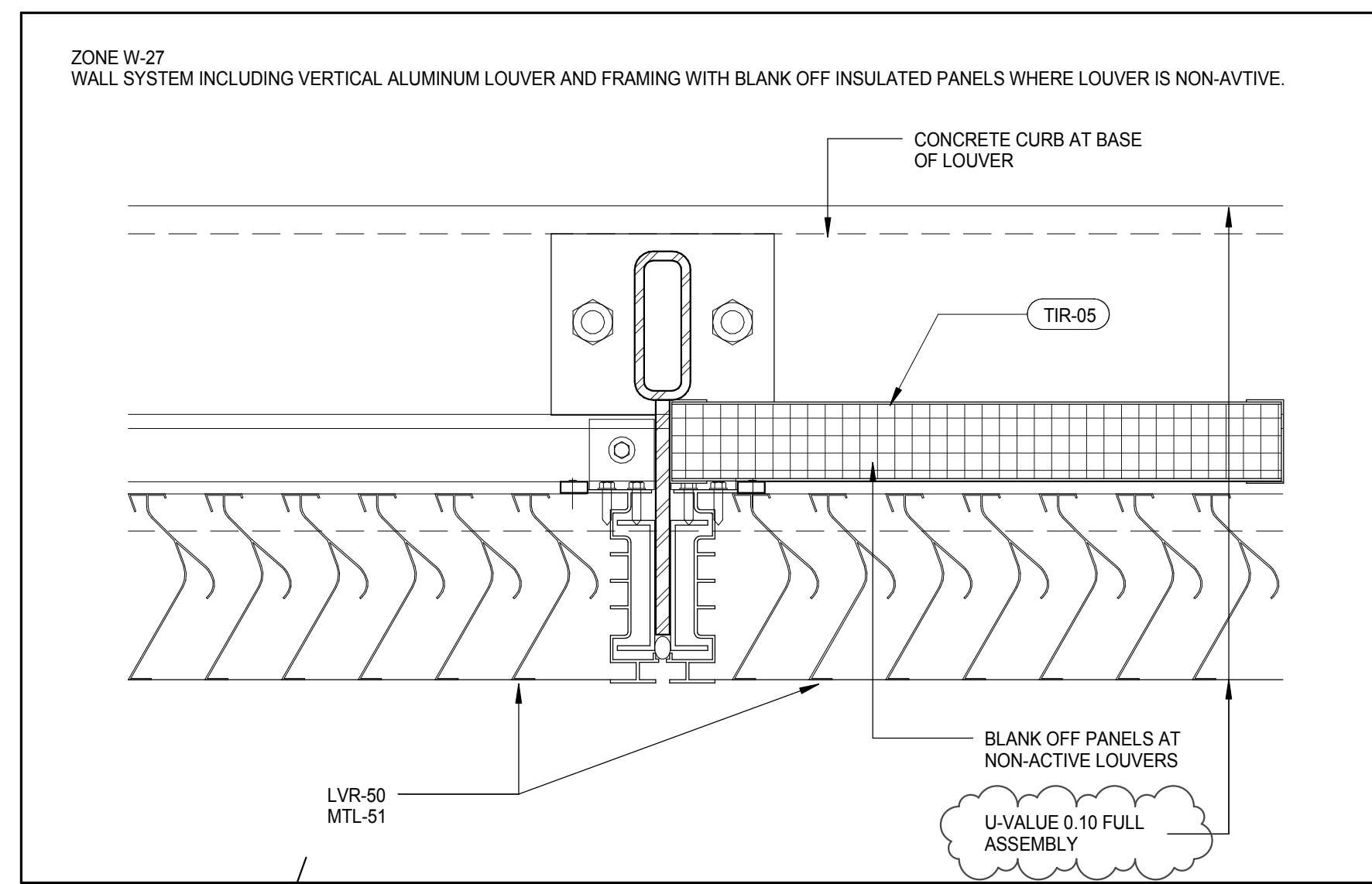
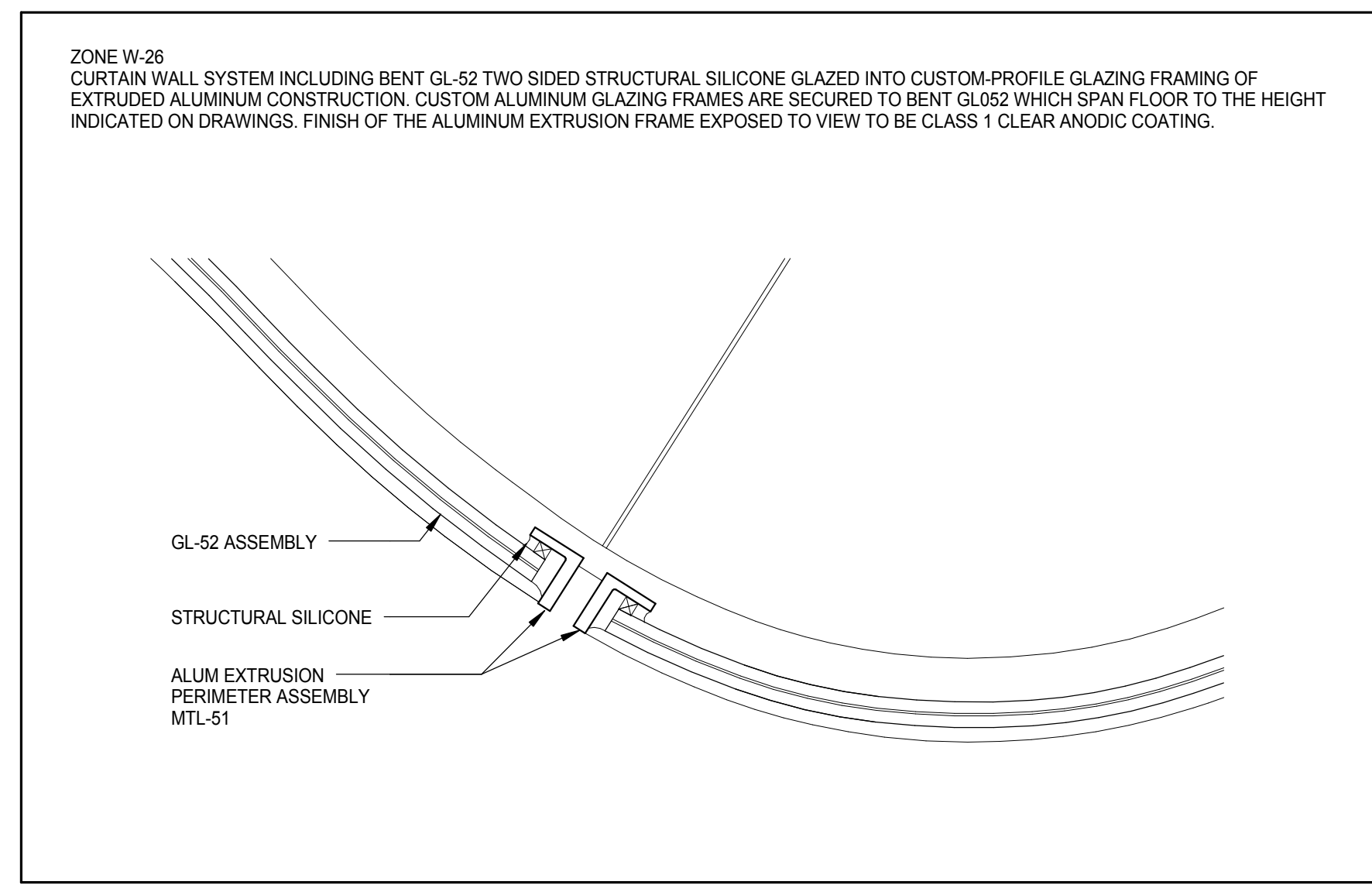
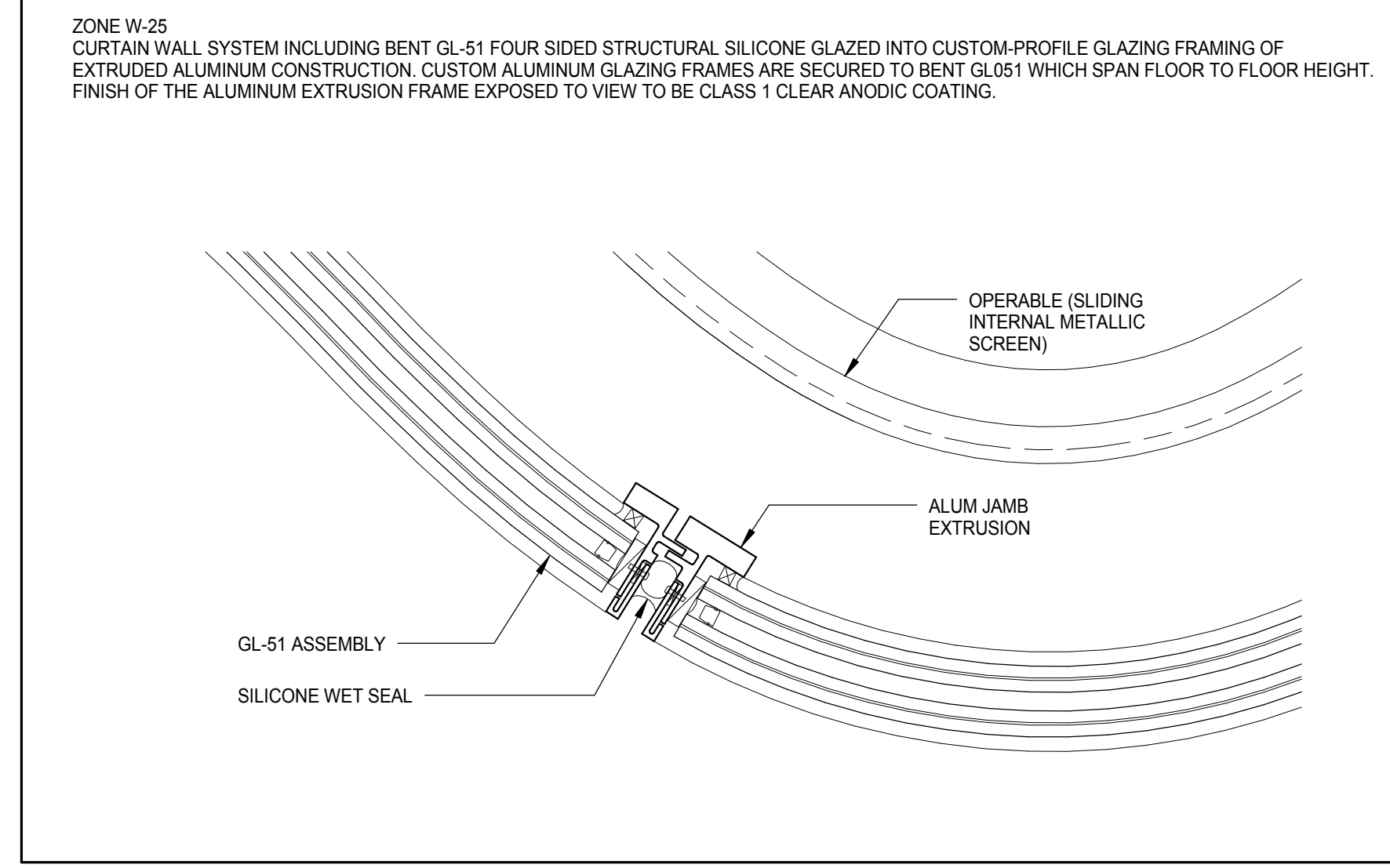
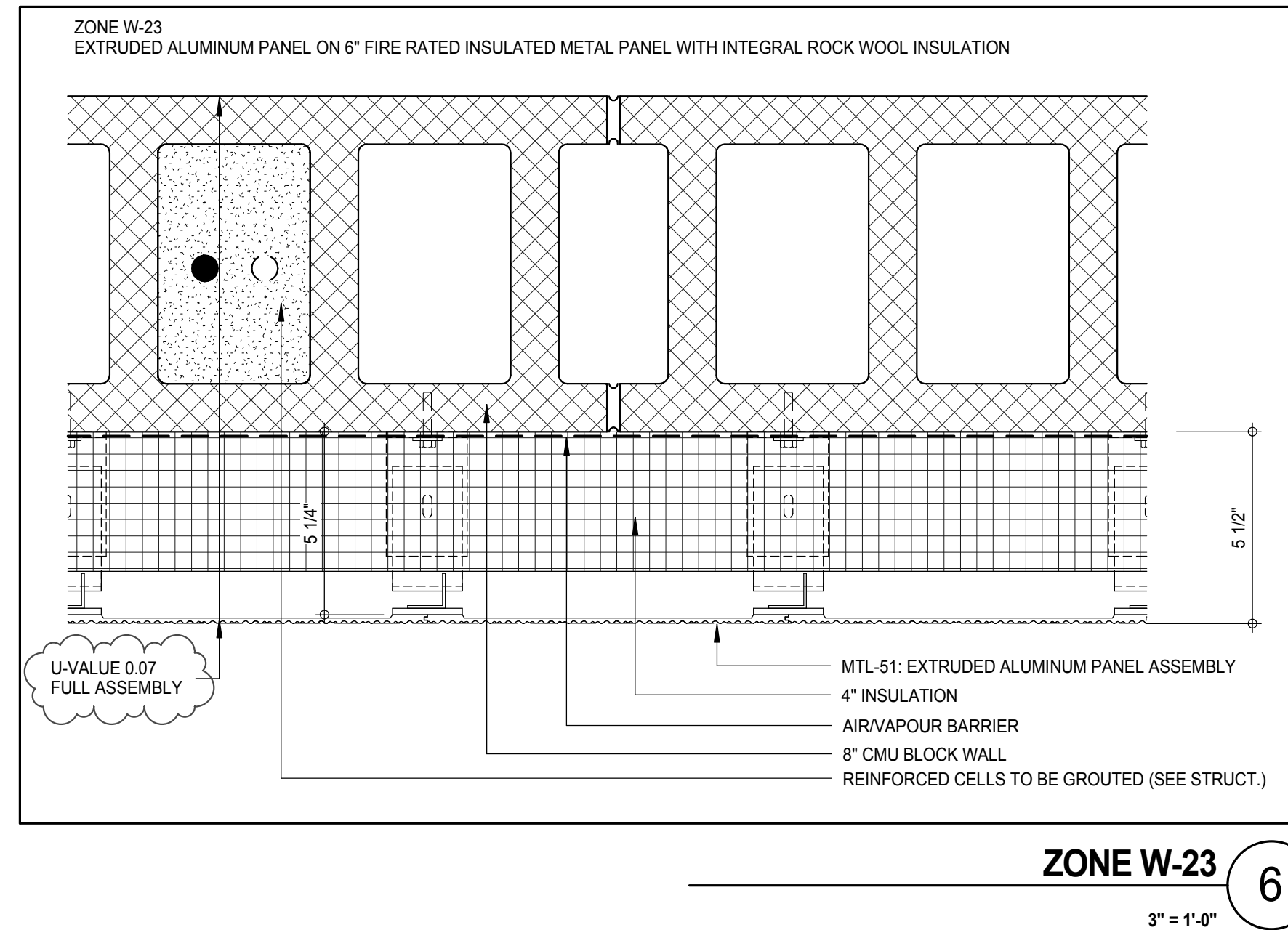
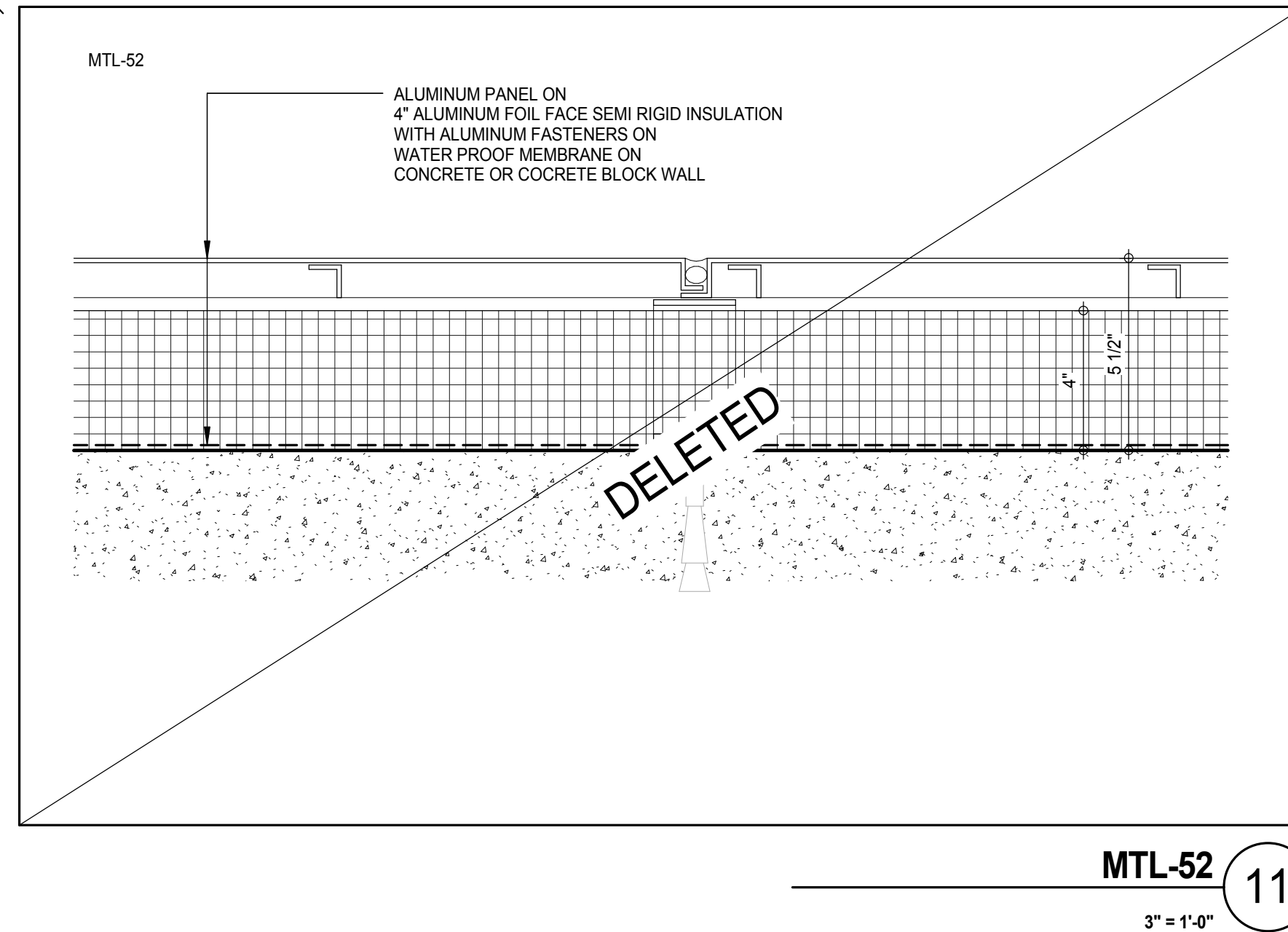
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COMPLIANCE WITH ECCC-NYS NOTE

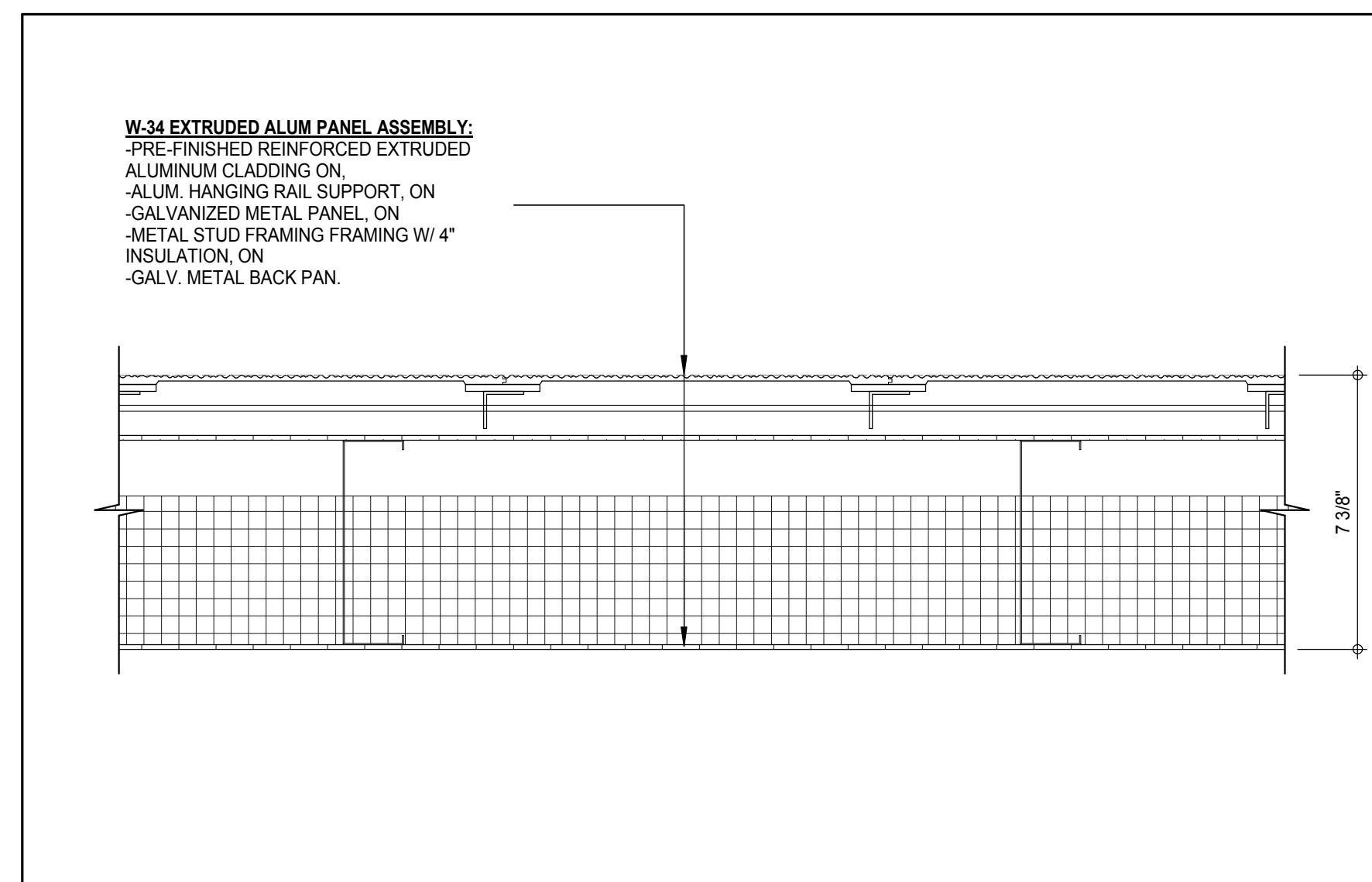
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2011
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE,
USING THE ASHRAE 90.1 ALTERNATIVE (LISTED IN NYCECC, 501.2).



EXTERIOR DOOR SCHEDULE					
LEVEL	DOOR NUMBER	TYPE	WIDTH	HEIGHT	
GROUND FLOOR	E01-01	E3	3'-6"	7'-0"	
GROUND FLOOR	E01-05A	E2	7'-9"	9'-0"	
GROUND FLOOR	E01-05B	E2	7'-9"	9'-0"	
GROUND FLOOR	E01-05C	E2	7'-9"	9'-0"	
GROUND FLOOR	E01-05D	E2	7'-9"	9'-0"	
GROUND FLOOR	E01-05E	E2	6'-4"	9'-0"	
GROUND FLOOR	E01-05G	E2	6'-4"	9'-0"	
GROUND FLOOR	E01-05H	E2	6'-4"	9'-0"	
GROUND FLOOR	E01-05J	E2	7'-9"	9'-0"	
GROUND FLOOR	E01-09K	E2	7'-9"	9'-0"	
GROUND FLOOR	E01-09L	E2	6'-4"	9'-0"	
GROUND FLOOR	E01-09M	E2	6'-4"	9'-0"	
GROUND FLOOR	E01-06	E3	3'-6"	7'-6"	
GROUND FLOOR	E01-07	E3	3'-6"	7'-6"	
GROUND FLOOR	E01-11	E3	3'-6"	7'-6"	
GROUND FLOOR	E01-12	E3	3'-6"	7'-6"	
GROUND FLOOR	E01-13	E3	3'-6"	7'-6"	
GROUND FLOOR	E01-14A	E3	3'-0"	7'-6"	
GROUND FLOOR	E01-14B	E3	3'-0"	7'-6"	
GROUND FLOOR	E01-14C	E12	8'-0"	9'-0"	
GROUND FLOOR	E01-14D	E12	8'-0"	9'-0"	
GROUND FLOOR	E01-15	E3	3'-6"	7'-6"	
GROUND FLOOR	E01-16	E2	3'-0"	9'-0"	
GROUND FLOOR	E01-18	E2	3'-0"	9'-0"	
GROUND FLOOR	E01-19	E4	3'-0"	9'-0"	
GROUND FLOOR	E01-24A	E2	3'-6"	9'-0"	
GROUND FLOOR	E01-24B	E2	3'-6"	9'-0"	
GROUND FLOOR	E01-24C	E2	7'-9"	9'-0"	
GROUND FLOOR	E01-666F	E2	6'-4"	9'-0"	
GROUND FLOOR	E01-73A	E4	6'-0"	7'-0"	
GROUND FLOOR	E01-73B	E4	6'-0"	9'-0"	
GROUND FLOOR	E01-75A	E4	6'-0"	9'-0"	
GROUND FLOOR	E01-75B	E4	6'-0"	9'-0"	
GROUND FLOOR	E01-89	E3	3'-0"	7'-6"	
LEVEL 02	E02-85	E3	3'-6"	7'-0"	
LEVEL 05	E05-01A	E3	3'-0"	8'-0"	
LEVEL 05	E05-01B	E3	3'-0"	7'-0"	
LEVEL 06	E06-25	E4	5'-0"	7'-6"	
LEVEL 08	E08-01	E5	3'-0"	8'-0"	
LEVEL 08	E08-02	E5	3'-0"	8'-0"	
LEVEL 08	E08-03	E7	3'-0"	8'-0"	
LEVEL 08	E08-04A	E11	3'-6"	8'-0"	
LEVEL 08	E08-04B	E11	3'-6"	8'-0"	
LEVEL 08	E08-05	E11	0"	0"	
LEVEL 08	E08-05A	E11	0"	0"	
LEVEL 08	E08-12C	E11	3'-6"	8'-0"	
LEVEL 08	E08-13	E7	8'-0"	8'-0"	
LEVEL 08	E08-18	E7	3'-0"	8'-0"	
LEVEL 08	E08-30A	E7	3'-0"	8'-0"	
LEVEL 08	E08-30B	E5	3'-0"	8'-0"	
LEVEL 08	E08-30C	E5	3'-0"	8'-0"	
LEVEL 08	E08-30D	E6	3'-0"	8'-0"	
LEVEL 08	E08-30E	E6	3'-0"	8'-0"	
LEVEL 08	E08-30F	E5	3'-0"	8'-0"	
LEVEL 08	E08-63	E6	3'-0"	8'-0"	
LEVEL 08	E08-84B	E11	3'-0 1/2"	8'-0"	
LEVEL 08	E08-85A	E11	3'-6 1/2"	7'-0"	
LEVEL 08	E08-85B	E11	3'-0"	7'-0"	
LEVEL 08	E08-86A	E11	0"	0"	
LEVEL 08	E08-87	E11	0"	0"	
LEVEL 08	E08-87A	E11	0"	0"	
LEVEL 20	E20-01	E9	4'-10"	8'-0"	
LEVEL 20	E20-02	E9	4'-10"	8'-0"	
LEVEL 28	E28-01	E6	3'-0"	8'-0"	
LEVEL 28	E28-02	E6	3'-0"	8'-0"	
LEVEL 47	E47-01	E9	4'-10"	8'-0"	
LEVEL 47	E47-02	E9	3'-10"	8'-0"	
LEVEL 47	E47-03	E10	3'-4"	8'-0"	
LEVEL 47	E47-04	E9	3'-0"	8'-0"	
LEVEL 69	E69-01	E9	4'-10"	8'-0"	
LEVEL 69	E69-03	E10	3'-4"	8'-0"	
LEVEL 71	E71-01	E9	3'-11"	8'-0"	
LEVEL 71	E71-02	E10	4'-10"	8'-0"	
LEVEL 83	E83-01	E11	3'-0"	8'-0"	
LEVEL 83	E83-02	E11	3'-0"	8'-0"	
LEVEL 99	E99-02	E3	3'-6"	7'-6"	
LEVEL 99	E99-03	E3	3'-6"	7'-6"	



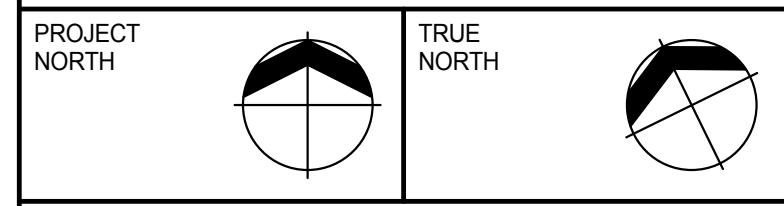
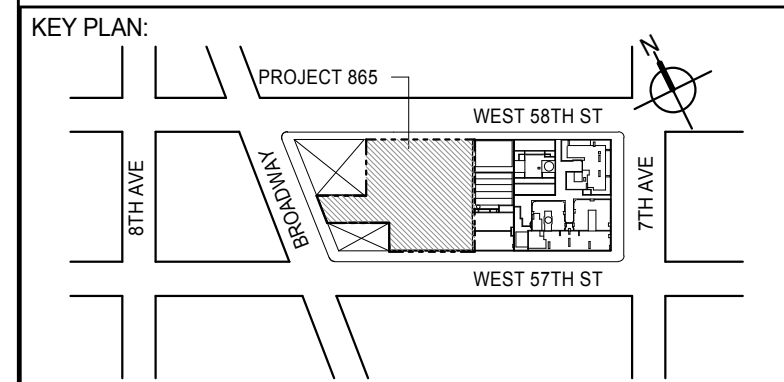
KEYNOTE LEGEND	
TIS-2	SEMI-RIGID INSULATION - MINERAL WOOL - 2" R-VALUE: 8.4 U-VALUE: 0.12
TIS-3	SEMI-RIGID INSULATION - MINERAL WOOL - 3" R-VALUE: 12.6 U-VALUE: 0.08
TIS-04	SEMI-RIGID INSULATION - MINERAL WOOL - 4" R-VALUE: 16.8 U-VALUE: 0.05
TIS-6	SEMI-RIGID INSULATION - MINERAL WOOL - 6" R-VALUE: 25.2 U-VALUE: 0.04
TIR-02	RIGID INSULATION - 2" R-VALUE: 10 U-VALUE: 0.1
TIR-03	RIGID INSULATION - 3" R-VALUE: 15 U-VALUE: 0.07
TIR-04	RIGID INSULATION - 4" R-VALUE: 20 U-VALUE: 0.05
TIR-05	RIGID INSULATION - 5" R-VALUE: 25 U-VALUE: 0.04



PODIUM MATERIAL DESIGNATIONS			
MATERIAL CODE	DESCRIPTION	LOCATION	MANUF #
GLASS			
GL-51	DOUBLE CURVED INSULATED GLASS UNIT CONSISTING OF: -5/16" (AN) LOW IRON GLASS LITE + -060 PVB INTERLAYER + -5/16" (AN) LOW IRON GLASS LITE + -1/2" AIR SPACE W/ BENT GREY SPACER + -5/16" (AN) LOW IRON GLASS LITE + -060 PVB INTERLAYER + -5/16" (AN) LAMINATED INNER LITE #1 SURFACE SHALL RECEIVE GREY MICRODOT FRIT (SEE SPECIFICATION)		
GL-52	CURVED MONOLITHIC GLASS ASSEMBLY CONSISTING OF: -3/8" (AN) LOW IRON GLASS LITE + -060 PVB INTERLAYER + -3/8" (AN) LOW IRON GLASS LITE #1 SURFACE SHALL RECEIVE GREY MICRODOT FRIT (SEE SPECIFICATION)		
GL-53	LAMINATED ASSEMBLY: -3/4" CLEAR LOW IRON (AN) + -060 IONOPLAST INTERLAYER (SGP) + -3/4" CLEAR LOW IRON (AN) CURVED WHERE INDICATED ON DRAWINGS	STOREFRONT	
GL-54	INSULATED LAMINATED ASSEMBLY: -3/8" CLEAR LOW IRON (FT) WITH VE 15-85 LOW-E COATING ON #2 SURFACE (SEE SPECIFICATION) + -1/2" ARGON FILLED AIR SPACE + -1/4" CLEAR LOW IRON (AN) + -060 PVB INTERLAYER + -1/4" LOW IRON (AN)	5TH FLOOR TERRACE EMPLOYEE ENTRANCE	
GL-56	RESERVED		
GL-57	LAMINATED ASSEMBLY: -1/2" CLEAR LOW IRON (FT) + -060 IONOPLAST + -1/2" CLEAR LOW IRON (FT)	5TH FLOOR TERRACE GUARDRAIL	
GL-58	LAMINATED ASSEMBLY: -1/4" ACID ETCH LOW IRON (AN) + -060 PVB INTERLAYER + -1/4" CLEAR LOW IRON (AN) WITH MIRROR COATING ON #4 SURFACE	OPAQUE CLERESTORY	
GL-59	LAMINATED ASSEMBLY: -3/8" CLEAR LOW IRON (FT) + -060 (PVB) INTERLAYER + -3/8" CLEAR LOW IRON (FT)	DRUM ROOF, REVOLVER GLASS	
GL-60	LAMINATED ASSEMBLY: -3/8" CLEAR LOW IRON (FT) + -060 PVB INTERLAYER + -3/8" CLEAR LOW IRON (FT)	REVOLVER DOOR LEAF GLASS	
GL-61	LAMINATED ASSEMBLY: -1/4" CLEAR LOW IRON (FT) + -060 PVB INTERLAYER + -1/4" CLEAR LOW IRON (FT)	SWING DOOR GLASS	
GL-62	LAMINATED ASSEMBLY: -1/2" CLEAR LOW IRON (FT) + -060 PVB INTERLAYER + -1/2" CLEAR LOW IRON (FT) W/ GREY 2mm MICRO DOT PATTERN ON #1 SURFACE (FACING DOWN TO STREET)	EMPLOYEE ENTRY CANOPY GLASS	
LOUVERS			
LVR-50	ALUMINUM LOUVER	ACTIVE AND NON-ACTIVE LOUVERS AT AIR WELL ON 57TH STREET ACTIVE LOUVERS ON 58TH STREET. MTL-51	C/S RSV-5700
LVR-51	CUSTOM EXTRUDED ALUMINUM PROFILE, MTL-51		
METALS			
MTL-50	RESERVED		
MTL-51	EXTERIOR ALUMINUM PAINTED PANEL		
MTL-52	PAINTED ALUMINUM PANEL ON 4" FOILED FACE RIGID INSULATION ON WATERPROOF MEMBRANE ON CONCRETE OR CONCRETE BLOCK WALL	BMU ROOM	
MTL-53	SEE LVR-50		
MTL-54	RESERVED		
MTL-55	STAINLESS STEEL #6 FINISH		
MTL-56	STAINLESS STEEL, #4 FINISH		
MTL-57	EMPLOYEE ENTRY FORMED SCREEN PANEL, CLEAR ANODIZE		
PAVERS			
PAV-51	STEP STONE PAVER, CAL ARCH PAVER, PORCELAIN #1413		
PAV-52	PRECAST CONCRETE PAVERS, 24"x24"	6TH FLOOR TERRACE	
PAV-53	TO MATCH PAV-51, GROUTED IN-PLACE	ENTRANCE	

(AN) = ANNEALED GLASS
(HS) = HEAT STRENGTHENED
(FT) = FULLY TEMPERED

PODIUM MATERIAL DESIGNATION



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No.	DESCRIPTION	DATE
1	CD PROGRESS ISSUE 2	19 DEC 14
2	D.O.B. SUBMISSION	18 FEB 15
3	CD PROGRESS ISSUE 3	09 MAR 15
4	D.O.B. SUBMISSION	27 APR 15
5	CD PROGRESS ISSUE 4	01 JUN 15
6	CD PROGRESS ISSUE 5	10 AUG 15
7	D.O.B. AMENDMENT 2	21 SEP 15

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ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT:



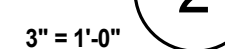
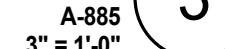
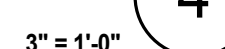
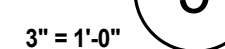
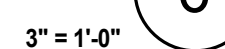
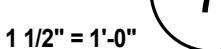
PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

PODIUM ZONES AND MATERIAL DESIGNATION

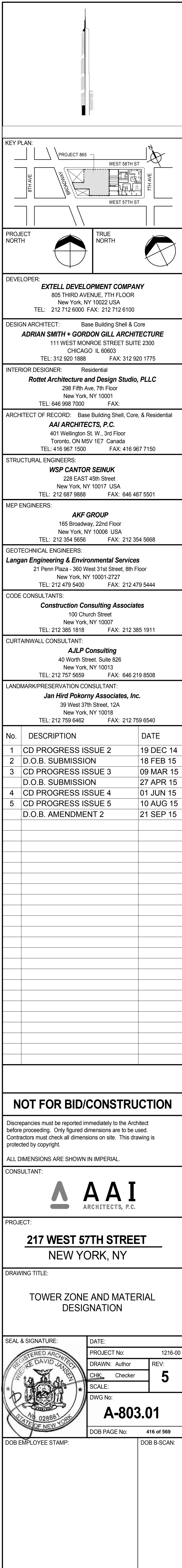
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	CHK: Checker	5
	SCALE: As indicated	
DWG No:	A-802.01	
DOB PAGE No:	415 of 569	
DOB EMPLOYEE STAMP:	DOB PAGE No:	DOB S-SCAN:



5

4

12" = 1'-0"





Submittal Transmittal

Detailed, Grouped by Each Number

217 West 57th Street Project # 11668500 Lend Lease (US) Construction LMB Inc.
200 Park Avenue, 9th Floor Tel: 212.592.6700 Fax:
New York, NY 10166

Date: 8/21/2015 Reference Number: 0566

Transmitted To: Phil Simone AKF Engineers 165 Broadway 22nd Floor New York, NY 10006 Tel: 212.389.2671 Fax: 212.354.5656	Transmitted By: Alexa DiBuono Lend Lease (US) Construction LMB Inc. 200 Park Avenue 9th Floor New York, NY 10166 Tel: 212-592-6700 Fax: 212-592-6988
--	--

Qty	Submittal Package No	Description	Due Date	Package Action
102	0007 - 08 44 13 - 2	PNA - Tower System Design - Thermal Calculations - Wall Types A,B,E	8/27/2015	

Transmitted For	Delivered Via	Tracking Number
Approval/Resubmission	Prolog Converge	

Items	Qty	Description	Notes	Item Action
0001	102	System Design - Thermal Calculations - Wall Types A,B,E		

Cc:	Company Name	Contact Name	Copies	Notes

Remarks

Signature

Signed Date



PERMASTEELISA NORTH AMERICA

217 WEST 57TH STREET

PROJECT 865

NEW YORK, NY



EXTERIOR WALL PACKAGE

SYSTEM DESIGN - THERMAL CALCULATIONS (WALL TYPE A)

DOC NAME: 90918 TC 001-02-150812 JH

EXTELL DEVELOPMENT COMPANY

ADRIAN SMITH & GORDON GILL

AJLP CONSULTING

LEND LEASE

Rev.	Date	Description	Prepared by	Checked by
02	08/12/2015	Third Submission	JH	JH
01	05/29/2015	Second Submission	JH	AF
00	03/09/2015	First Submission	JH	AF





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1 SUMMARY

THERM 6.3 software was used to analyze the two-dimensional heat transfer through the frame and glazing edge areas. The frame U-values have been derived using THERM 6.3 according to NFRC standard.

Main results are reported in the following:

Wall Type		U - Factor BTU/(h·ft ² ·°F)	Overall U - Factor BTU/(h·ft ² ·°F)	SHGC (Dimensionless)	Condensation Resistance (%)
WT-A	WT-A Vision	0.38	0.32	0.28	35.0
	WT-A Opaque	0.09			

Table 1: Summary of Results



2 THERM KEY

Material	Thermal Conductivity (Btu/h.ft ² .F)	Model Color
* Fin Bracket Average Conductivity	9.63	
Aluminum Alloy (Painted)	92.45	
Butyl Rubber	0.14	
Ethylene Propylene Diene Monomer (EPDM)	0.14	
Frame Cavity NFRC	Calculated by THERM	
Frame Cavity Slightly Ventilated	Calculated by THERM	
Glass (Plate or Float)	0.58	
IGU Gap Cavity	0.02	
Insulation	0.02	
Neoprene (Polychloroprene)	0.13	
PVC	0.10	
Polyamide 6.6 with 25% Glass Fiber	0.17	
Polyurethane Foam	0.03	
Silica Gel (Desiccant)	0.08	
Silicone Gasket	0.20	
Silicone Sealant	0.20	
Steel – Galvanized Sheet (0.14%C)	35.82	
Steel – Stainless (Buffed)	9.82	

Table 2: THERM Material Color Key

* Given a thermal conductivity of 0.024 W/m.K for air and 160.00 W/m.K for aluminum, an average thermal conductivity can be calculated for the setting block based on an area weighted method. The calculation can be seen below.

$$\left(10.4\% * 160 \frac{W}{m.K}\right) + \left(89.6\% * 0.024 \frac{W}{m.K}\right) = 16.66 \frac{W}{m.K}$$



3 BOUNDARY CONDITIONS

Calculation	Standard	Cold-Side Environmental Temperature	Warm-Side Environmental Temperature	External Wind Speed	External Heat Transfer Coefficient	Internal Relative Humidity	Internal Heat Transfer Coefficient
Thermal Transmittance	NFRC (100-2010)	-0.4°F	69.8°F	12.3mph	4.58 Btu/h-ft²-F	----	0.53 Btu/h-ft²-F
Condensation Assessment	Project Specification (06/02/14)	5.0°F	68.0°F	15.0mph	5.43 Btu/hft²-F	35%	0.53 Btu/h-ft²-F

Table 3: Boundary Conditions



4 GENERAL DESCRIPTION

This report must be read in conjunction with PermaSteelisa's system drawings dated August 20th 2015. The thermal performance of the typical façade type is stated in the following report. The overall U-value, as well as Condensation Assessment of the curtain wall panels have been performed according to the (NFRC), (ASHRAE) and (ISO) Standards.

Typical elevation and sections are shown in the following figure.

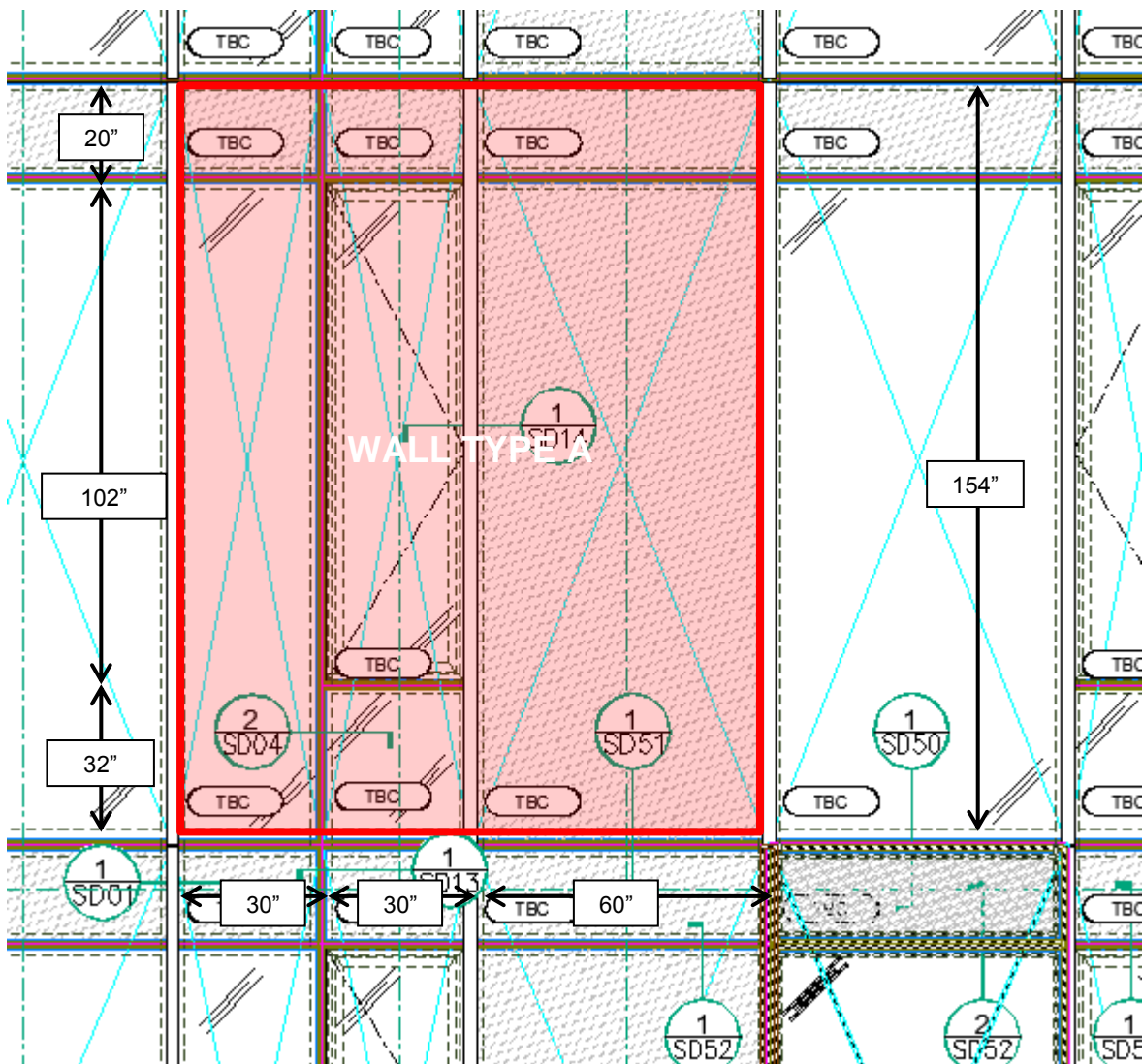


Figure 1: Wall Type A (SE01)



5 THERMAL TRANSMITTANCE

5.1 Thermal Transmittance Calculation Method

The heat transfer through the frame and glazing is assessed as described in the thermal guide (NFRC) and (ISO15099).

There are then the following thermal transmittances (U-values):

- Centre-glazing U-value U_g , which is assumed to apply to the whole of the glazing (defined in section 5.2.1);
- Centre-panel U-value U_{sp} , which is assumed to apply to the whole of the spandrel panel (defined in section 5.2.2);
- Frame U-value U_f (defined in section 5.3);
- Edge U-value U_{edge1} , U_{edge2} , to take into account the heat transfer due to the interaction (edge effect) between the framing and glazing/spandrel panel (defined in section 5.3).

The overall U-value of the curtain wall is then calculated by using the principle of the area weighting of U-values of the frames and glass (as explained in section 5.4).

5.2 Center U-Value

One-dimensional center U-value calculation has been performed for glass and spandrel.

5.2.1 Glazing

The calculations have been performed with the following glass for the typical elevation. (Calculated with Window 6.3 Software according to NFRC):

Glass Makeup:

Outer-lite:	5/16" IPASOL PLATIN 46/31 on Surface # 2 (Interpane)
Cavity:	1/2" Air with Stainless Steel Spacers
Inner-lite:	1/4" – 0.060" – 1/4" Laminate



PERMASTEELISA NORTH AMERICA

Glazing System Library

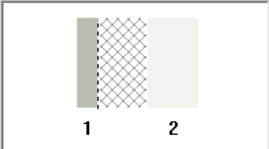
ID #: 62 Name: Hardrock Spec Glass

Layers: 2 Tilt: 90 °

Environmental Conditions: NFRC 100-2010

Comment:

Overall thickness: 1.263 inches Mode: ?



	ID	Name	Mode	Thick	Flip	Tsol	Rsol1	Rsol2	Tvis	Rvis1	Rvis2	Tir	E1	E2	Cond	Comment
▼	Glass 1 ▶▶ 7119	ip4729plipe	#	0.236	<input type="checkbox"/>	0.274	0.429	0.538	0.506	0.380	0.259	0.000	0.840	0.037	0.578	
	Gap 1 ▶▶ 1	Air		0.500	<input type="checkbox"/>											
▼	Glass 2 ▶▶ 30813	6mm-6mm Laminate.usr		0.527	<input type="checkbox"/>	0.809	0.077	0.077	0.901	0.082	0.082	0.000	0.837	0.837	0.418	

Center of Glass Results | Temperature Data | Optical Data | Angular Data | Color Properties

Ufactor	SC	SHGC	Rel. Ht. Gain	Tvis	Keff
Btu/h-ft ² -F			Btu/h-ft ²		Btu/h-ft-F
0.284	0.323	0.281	68.3	0.466	0.0174

Figure 2: WINDOW 6 Model

Standard	Glass Characteristics	Value
NFRC 100 -2010	Thermal Transmittance (Btu/h.ft ² .F)	0.28
NFRC 200 – 2010	Solar Heat Gain Coefficient	0.28

Table 4: 1 Dimensional Analysis Summary



5.2.2 Spandrel Panel (Wall Type A)

In the following, the THERM model is presented graphically

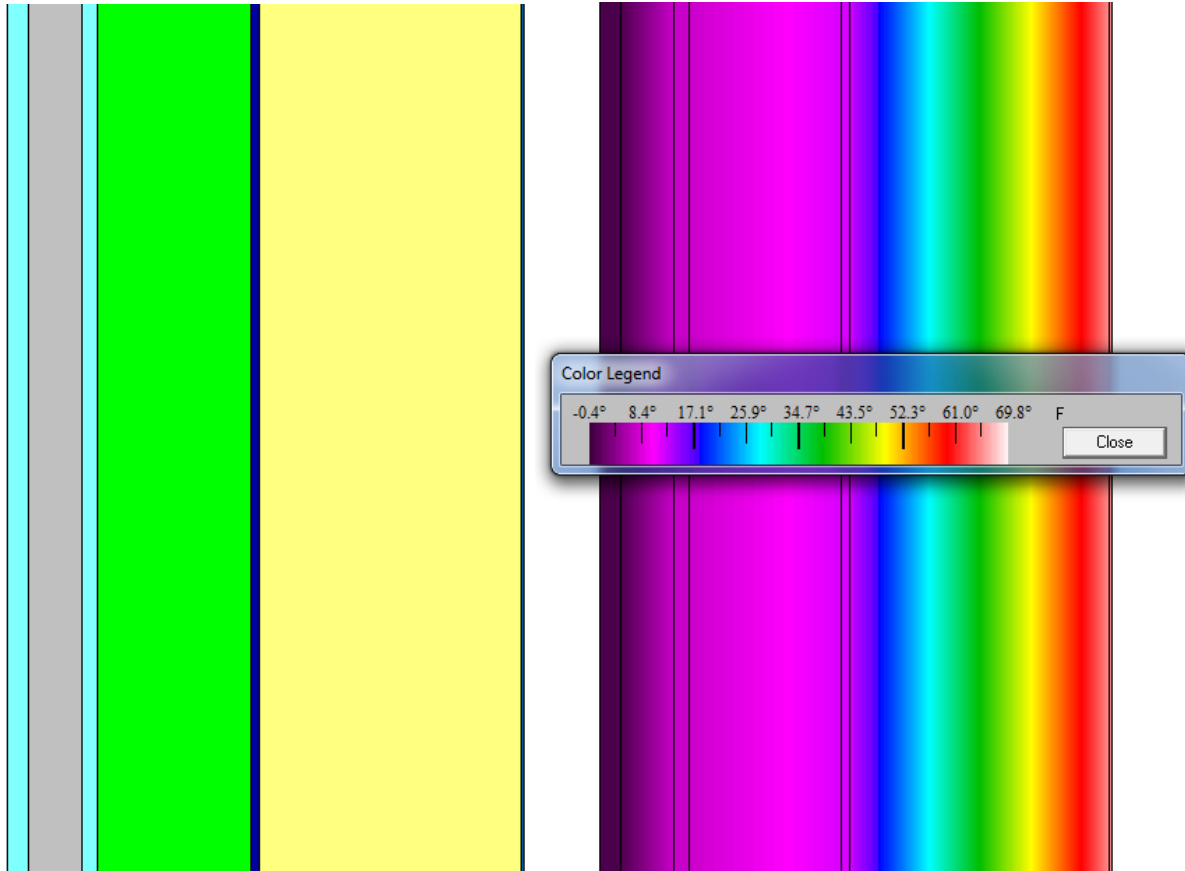


Figure 3: Spandrel Panel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Thermal Transmittance	$U_{sp} = 0.05 \text{ Btu/h.ft}^2.\text{F}$
-----------------------	---



5.3 Wall Type A Frame U-Value

The frames have been modeled by means of 2-dimensional FEM analysis, using the THERM program (version 6.3) by the Lawrence Berkeley National Laboratory. Material properties have been assigned as per THERM internal library.

The frame has been modeled including stainless steel glazing spacers.

The projected width of the solid part of the framing (excluding the glazing gaskets) is measured from the inside. For each of the models, the projected width of the frames is stated along with the frame U-value.

5.3.1 Dart Mullion - Spandrel / Spandrel

In the following, the THERM model is presented graphically

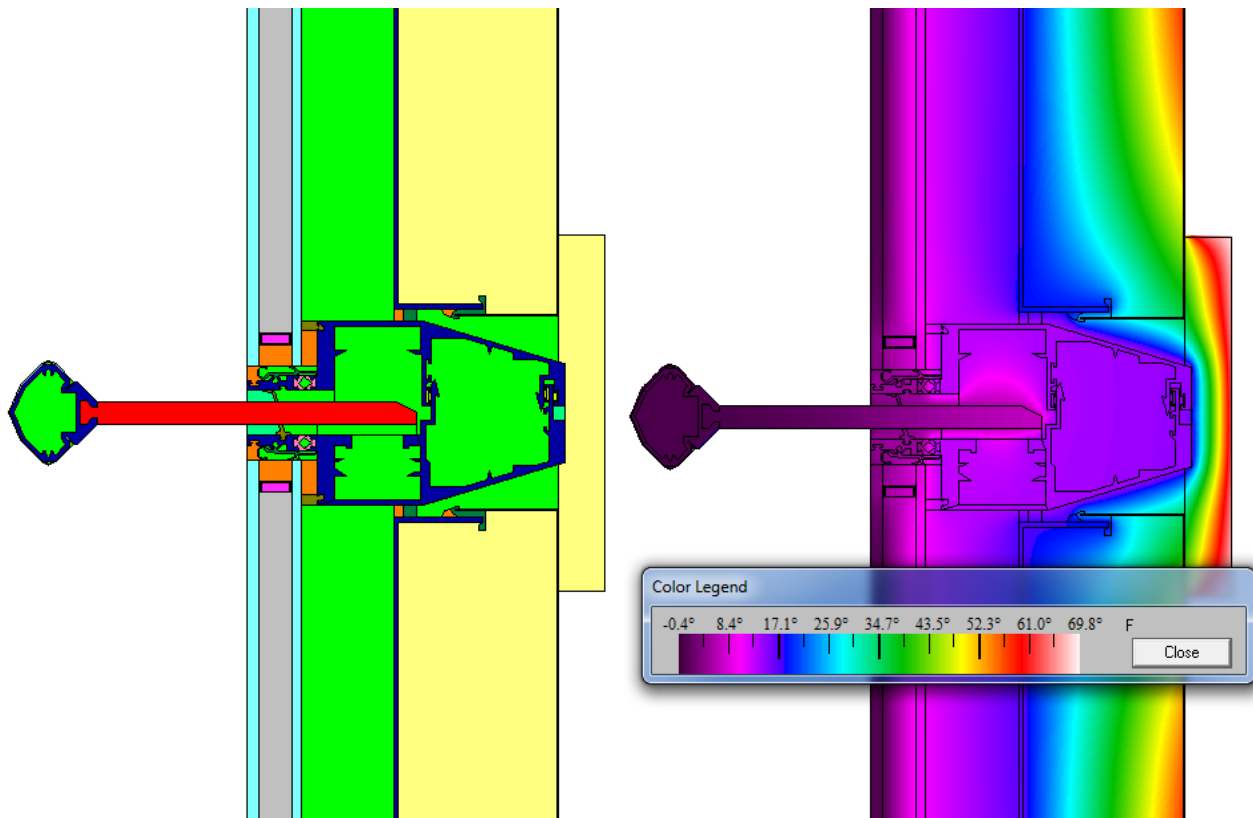


Figure 4: Dart Mullion – Spandrel/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.14 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.14 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.14 \text{ Btu/h.ft}^2.\text{F}$



5.3.2 Dart Mullion – Vision / Vision

In the following, the THERM model is presented graphically

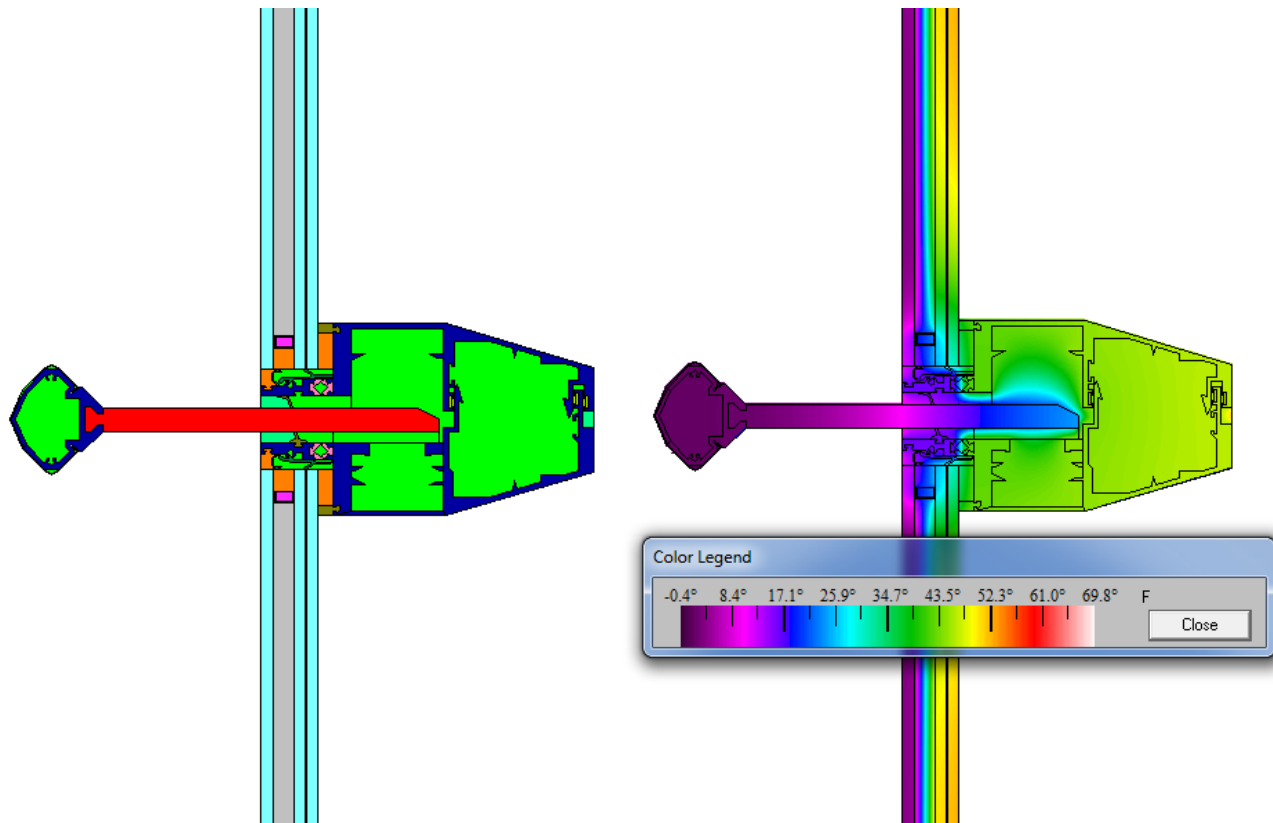


Figure 5: Dart Mullion – Vision/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.50 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.36 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.36 \text{ Btu/h.ft}^2.\text{F}$



5.3.3 Intermediate Mullion – Spandrel / Spandrel

In the following, the THERM model is presented graphically

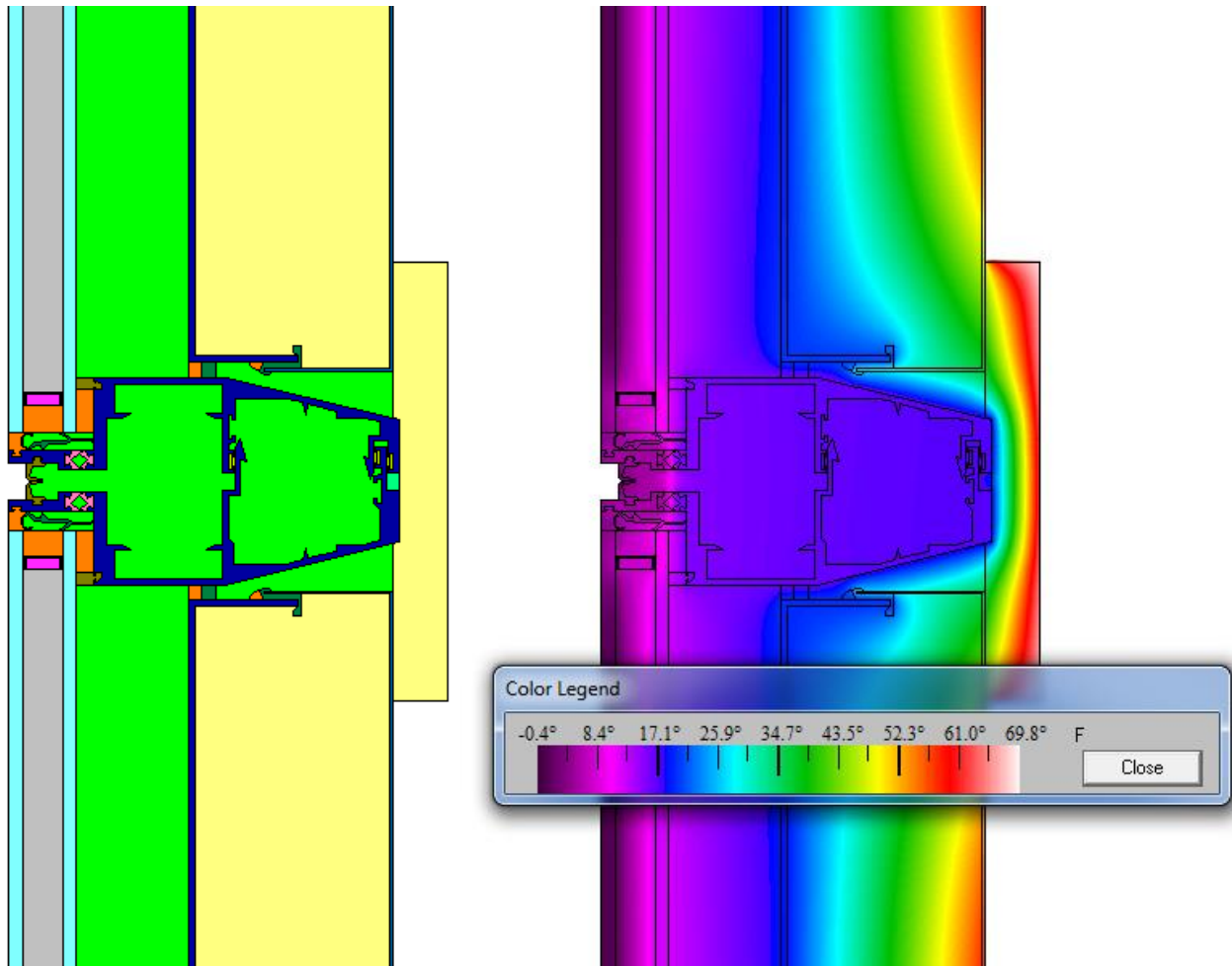


Figure 6: Intermediate Mullion – Spandrel/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.13 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.12 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.12 \text{ Btu/h.ft}^2.\text{F}$



5.3.4 Intermediate Mullion – Vision / Operable

In the following, the THERM model is presented graphically

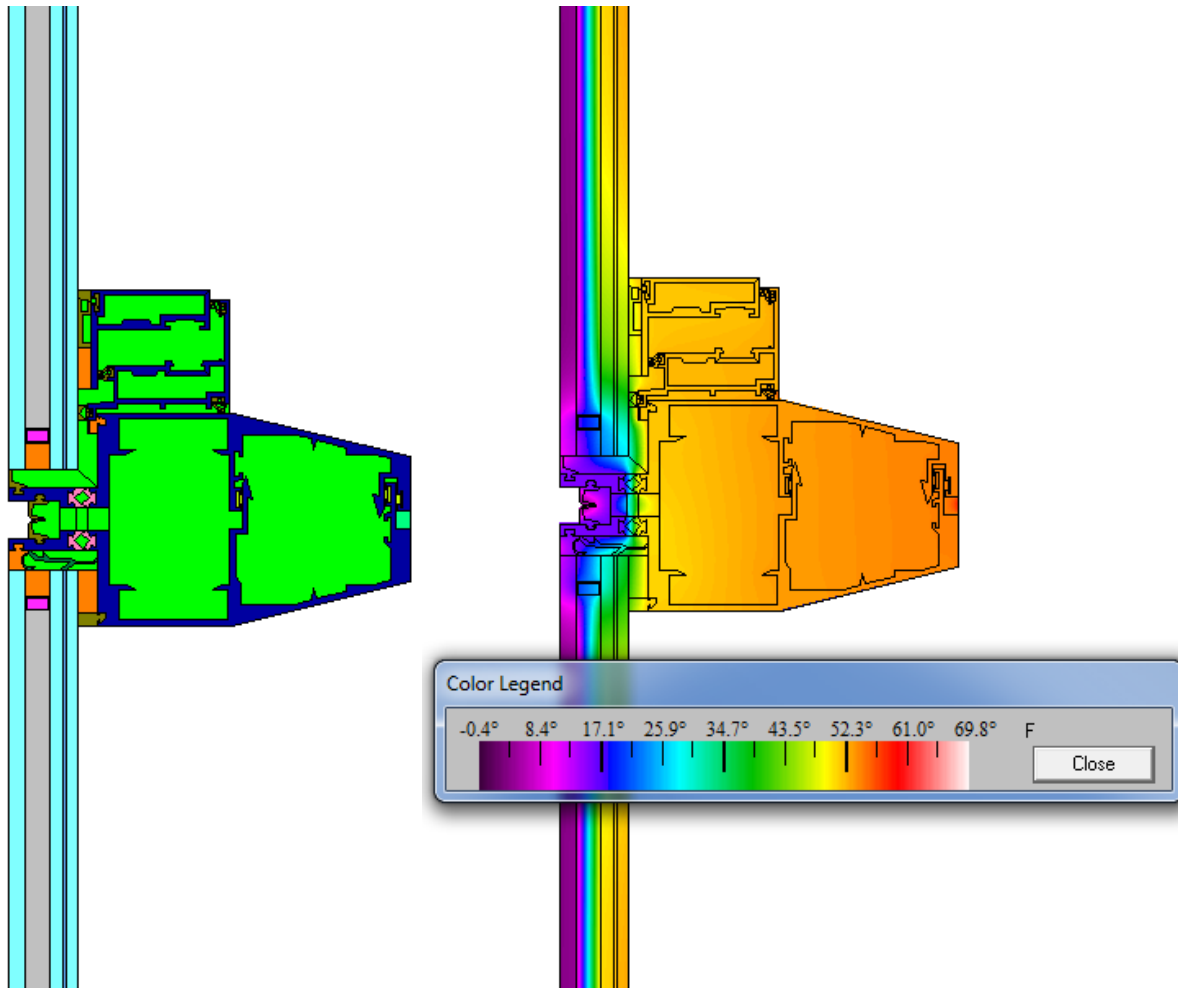


Figure 7: Intermediate Mullion – Vision/Operable: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.78 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.70 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.29 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.3.5 Intermediate Mullion – Vision / Vision

In the following, the THERM model is presented graphically

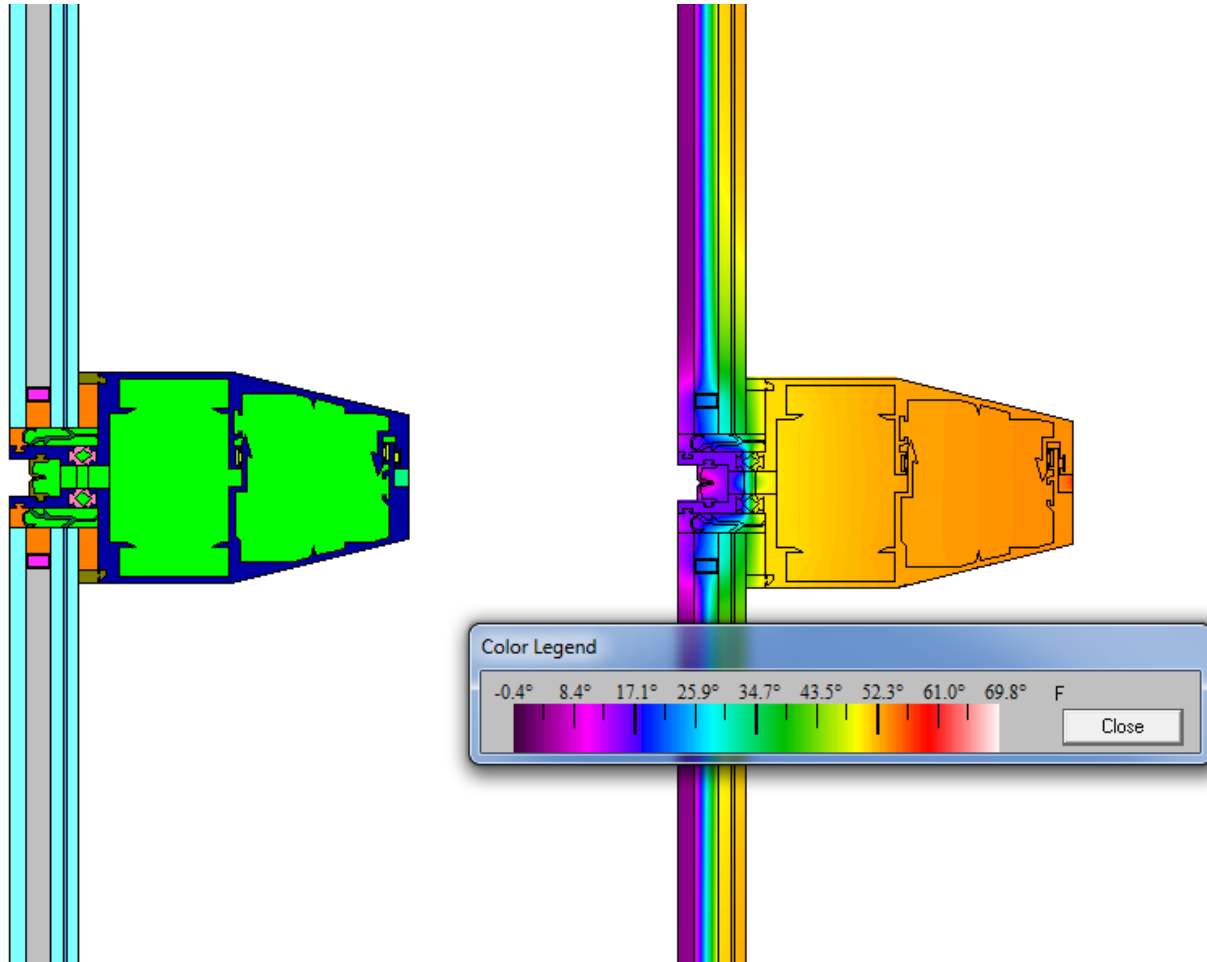


Figure 8: Intermediate Mullion – Vision/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.08 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.35 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.3.6 Mullion – Spandrel / Spandrel

In the following, the THERM model is presented graphically

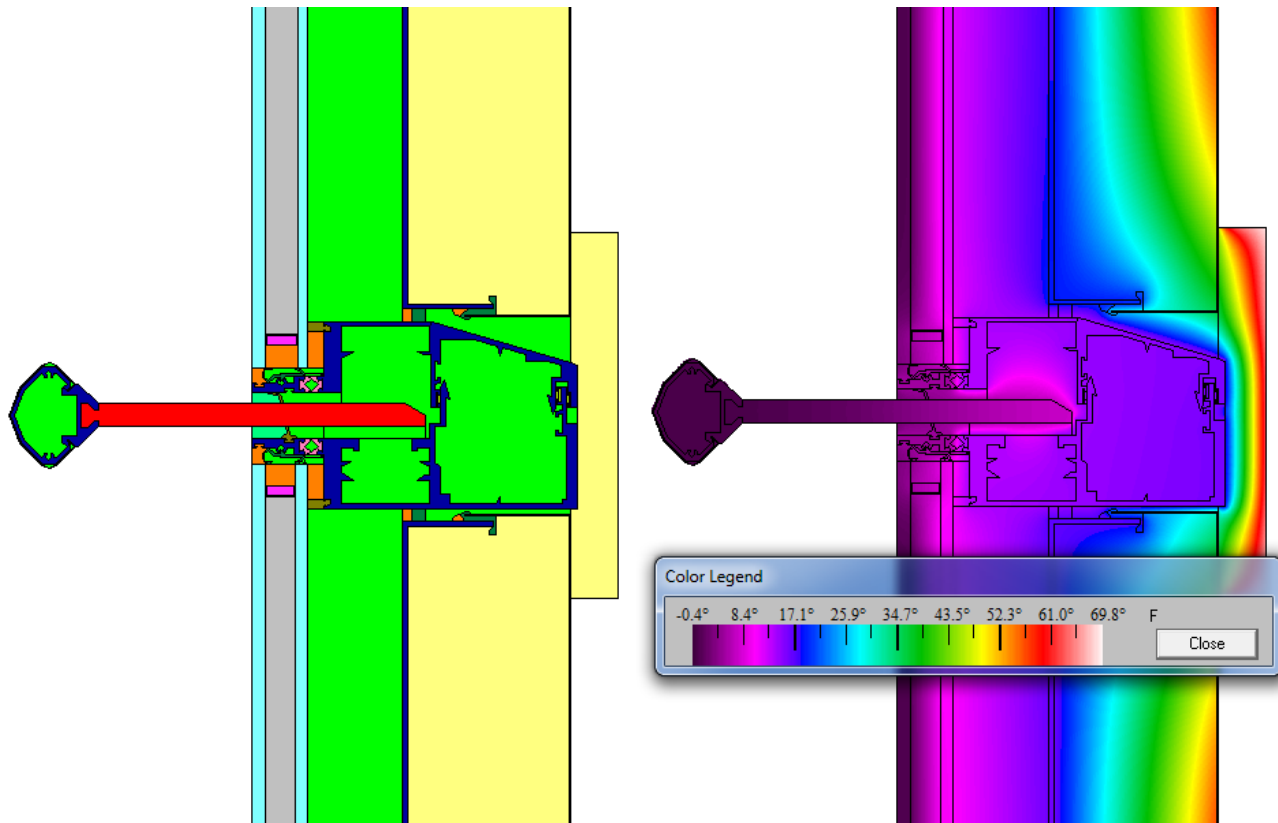


Figure 9: Mullion – Spandrel/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.14 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.13 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.16 \text{ Btu/h.ft}^2.\text{F}$



5.3.7 Mullion – Operable / Spandrel

In the following, the THERM model is presented graphically

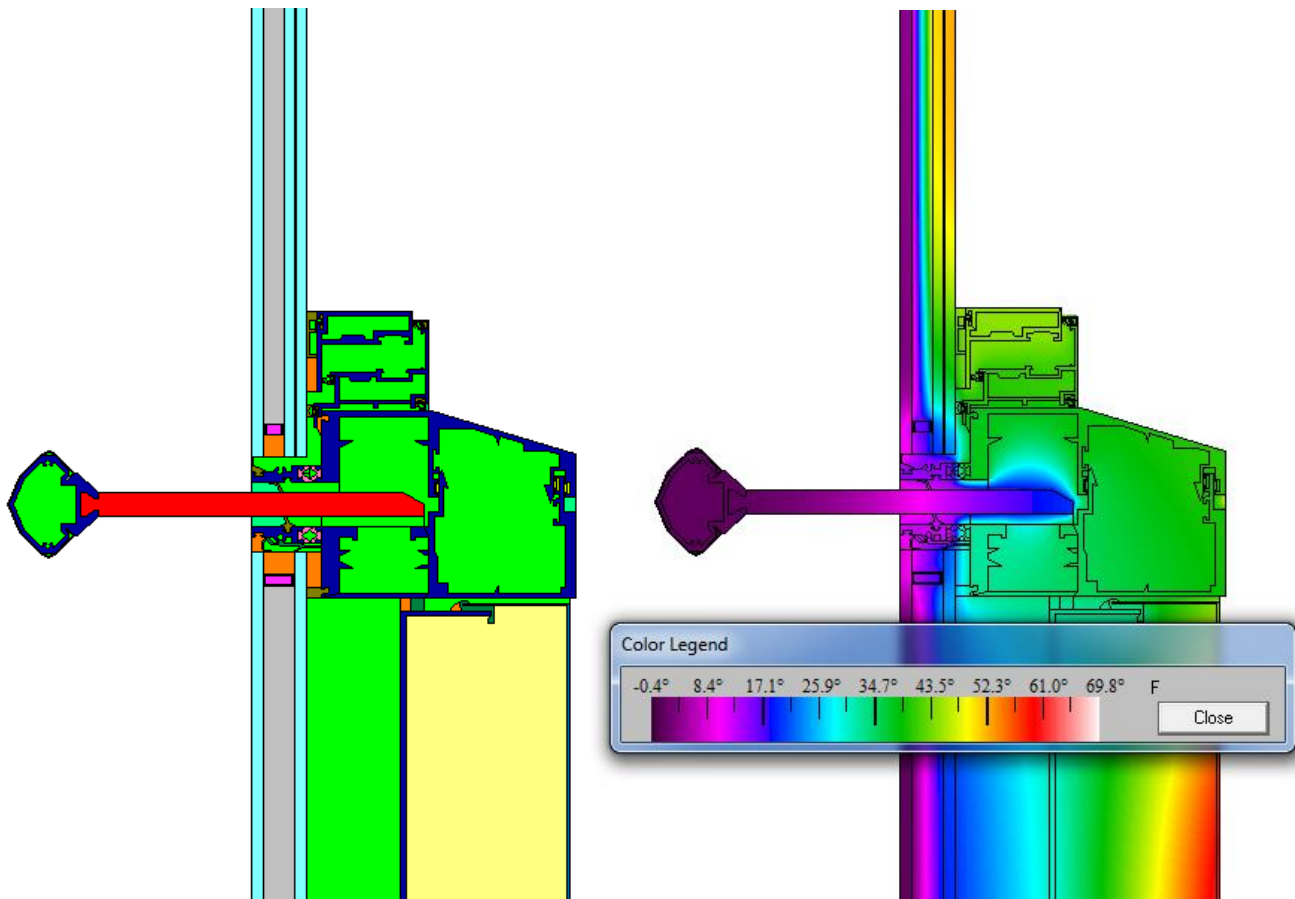


Figure 10: Mullion – Operable/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.92 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 7.00 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.31 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.23 \text{ Btu/h.ft}^2.\text{F}$



5.3.8 Mullion – Vision / Spandrel

In the following, the THERM model is presented graphically

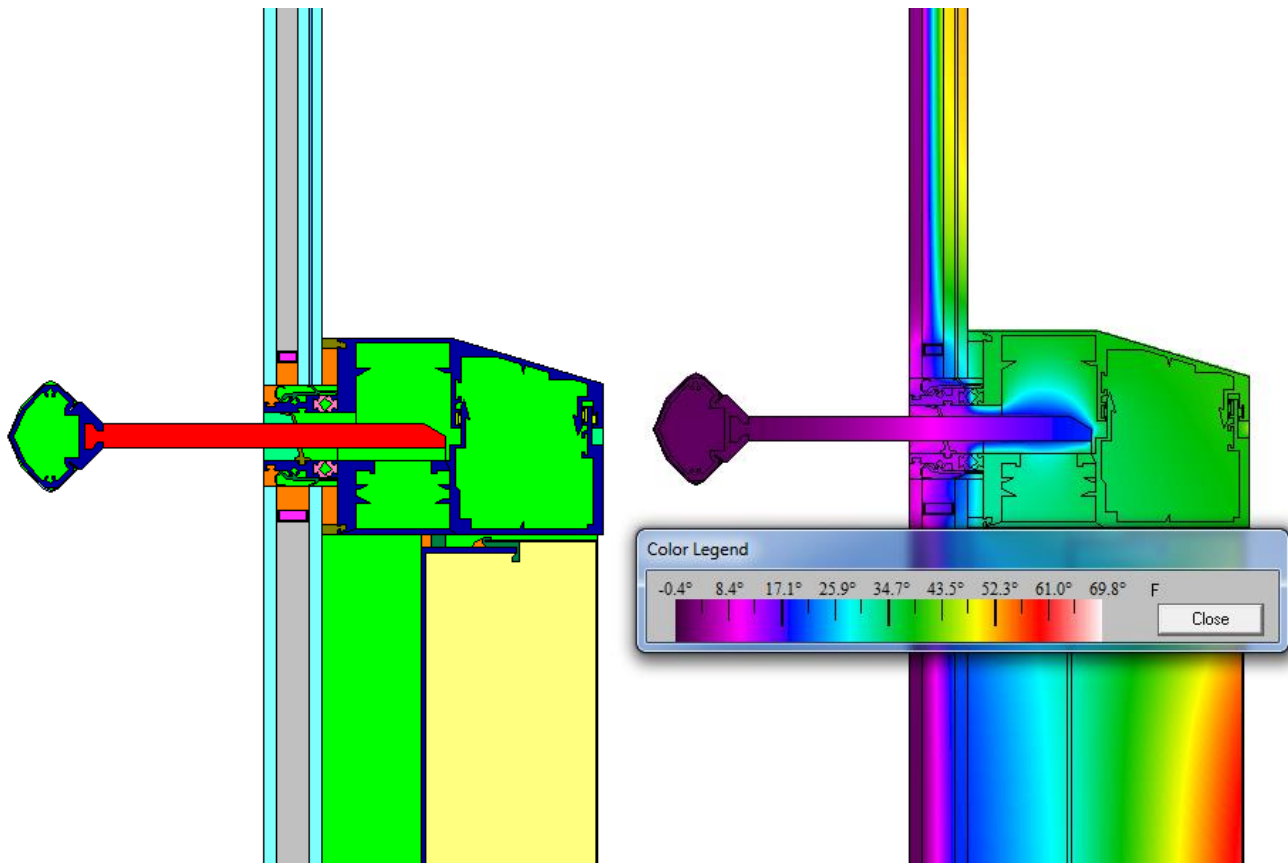


Figure 11: Mullion – Vision/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.25 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.23 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.37 \text{ Btu/h.ft}^2.\text{F}$



5.3.9 Stack Joint – Vision / Spandrel

In the following, the THERM model is presented graphically

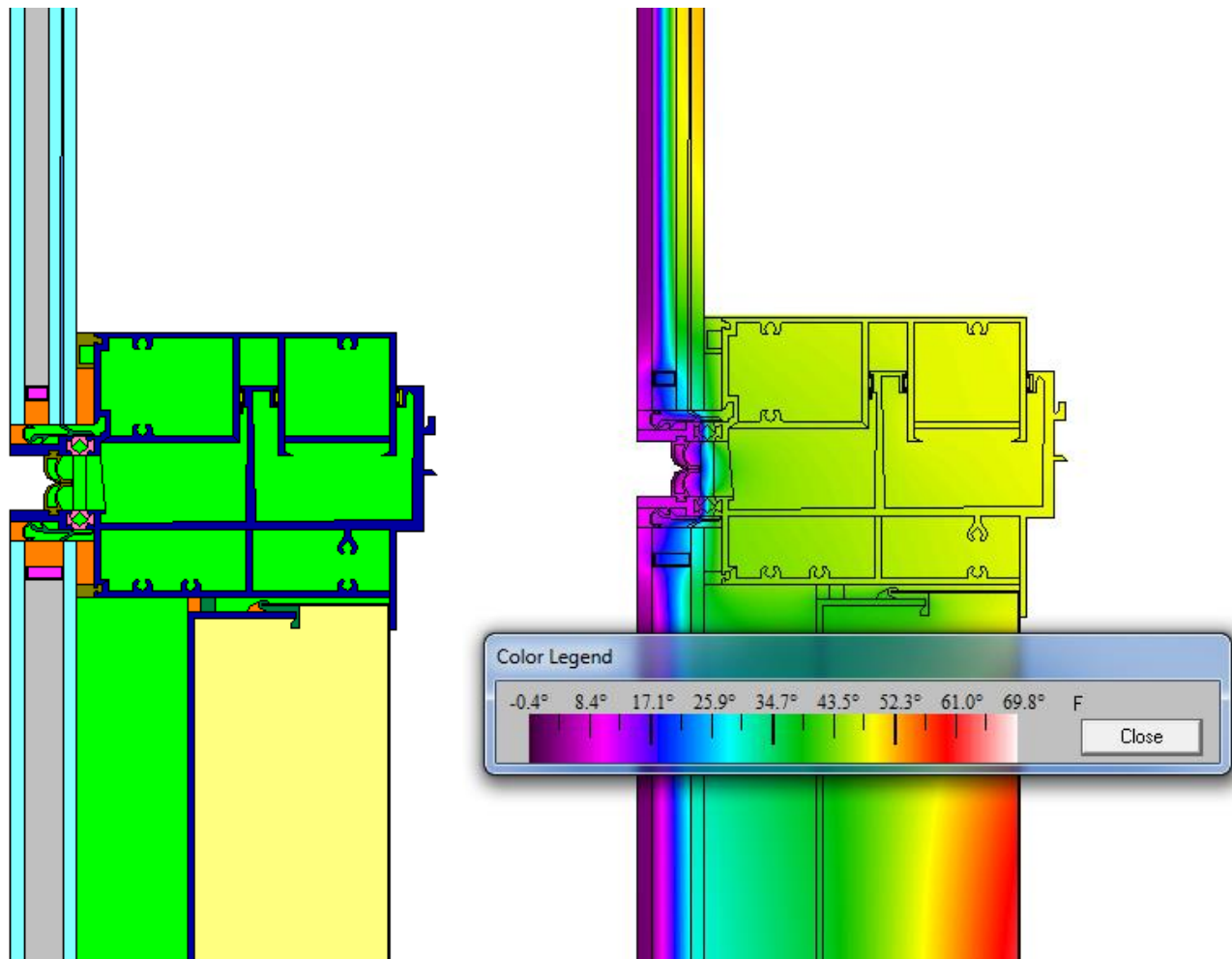


Figure 12: Stack Joint – Vision/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.96 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 5.50 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.32 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.28 \text{ Btu/h.ft}^2.\text{F}$



5.3.10 Stack Joint – Spandrel / Spandrel

In the following, the THERM model is presented graphically

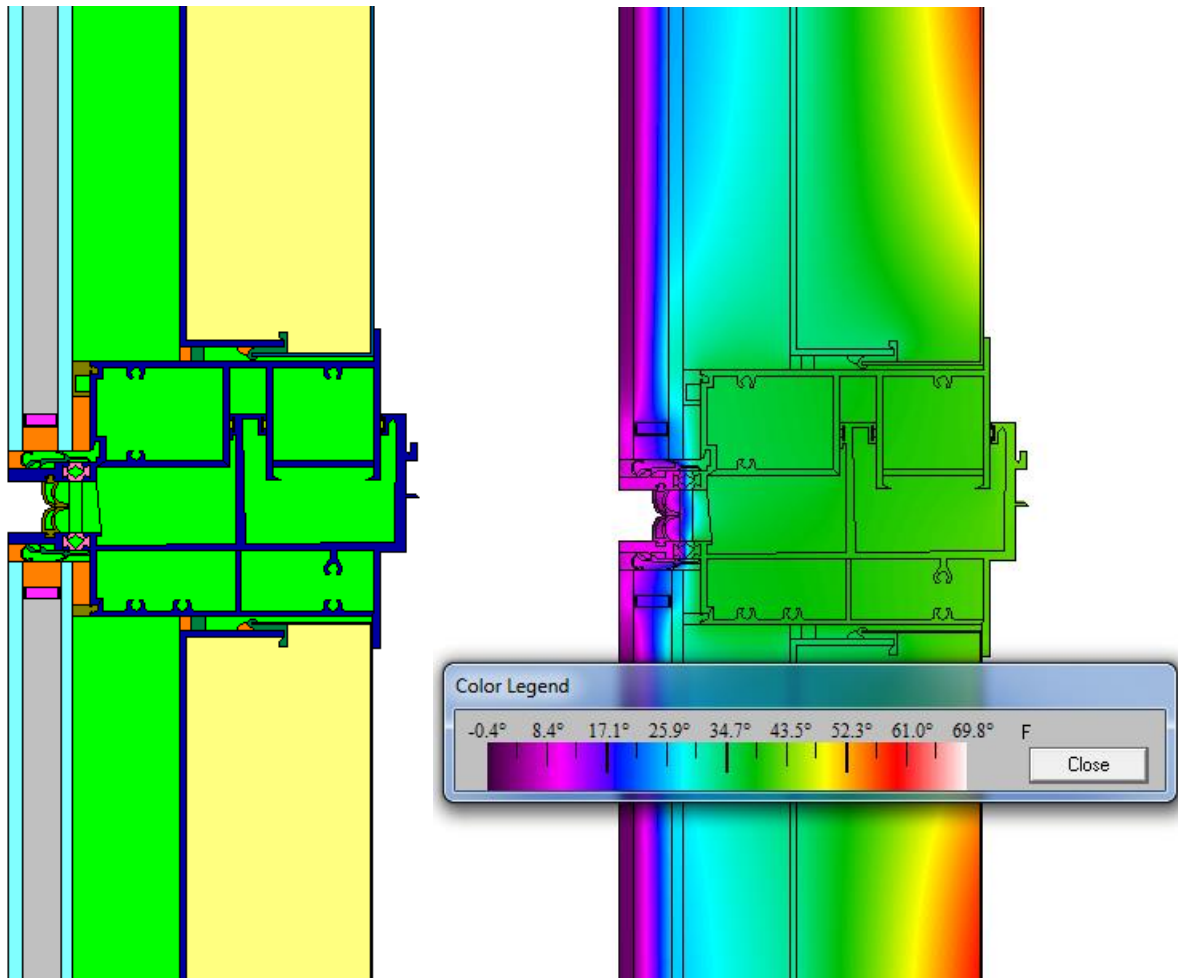


Figure 13: Stack Joint Spandrel/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.66 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 5.50 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.36 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.3.11 Transom – Vision / Spandrel

In the following, the THERM model is presented graphically

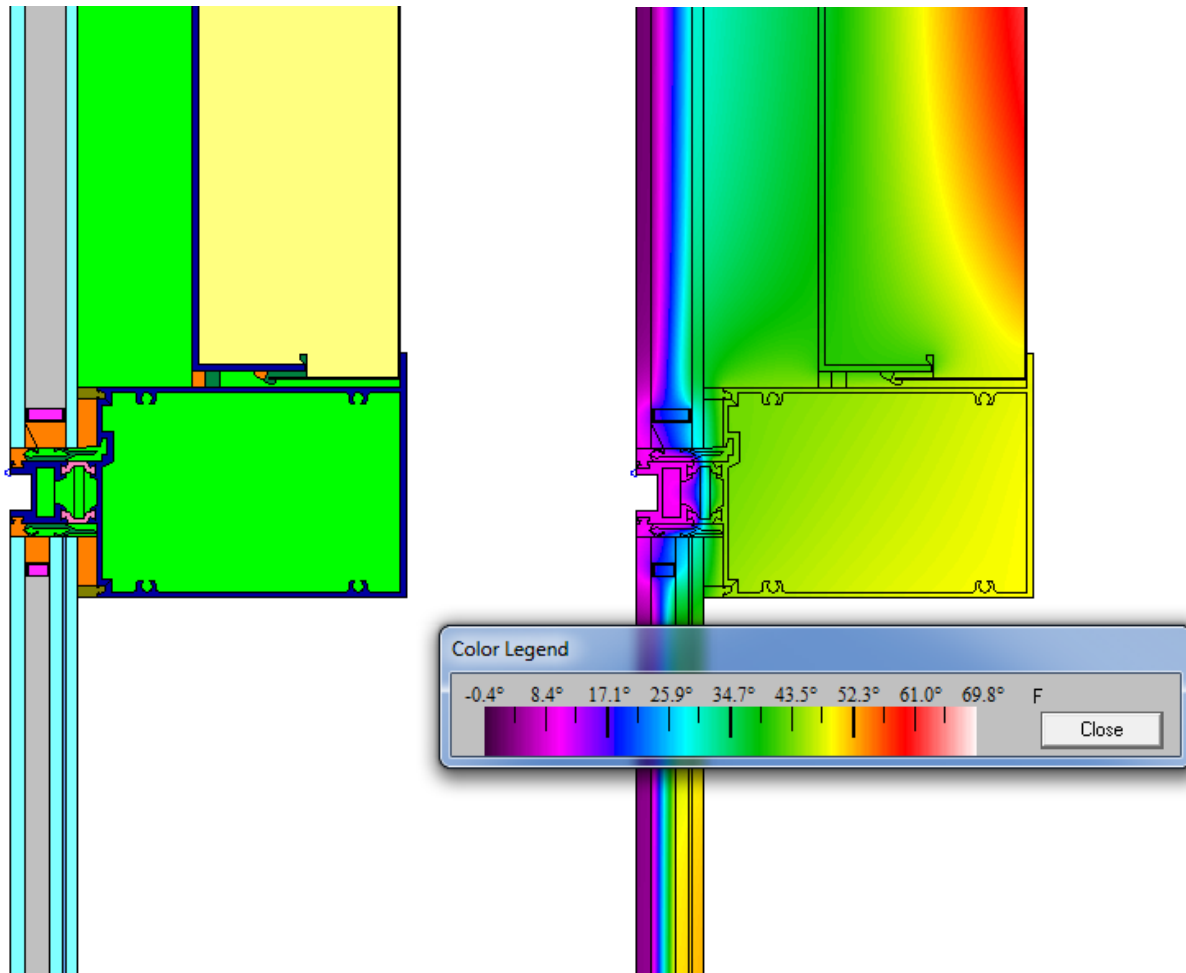


Figure 14: Transom – Vision/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.98 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.27 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.3.12 Transom – Spandrel / Operable

In the following, the THERM model is presented graphically

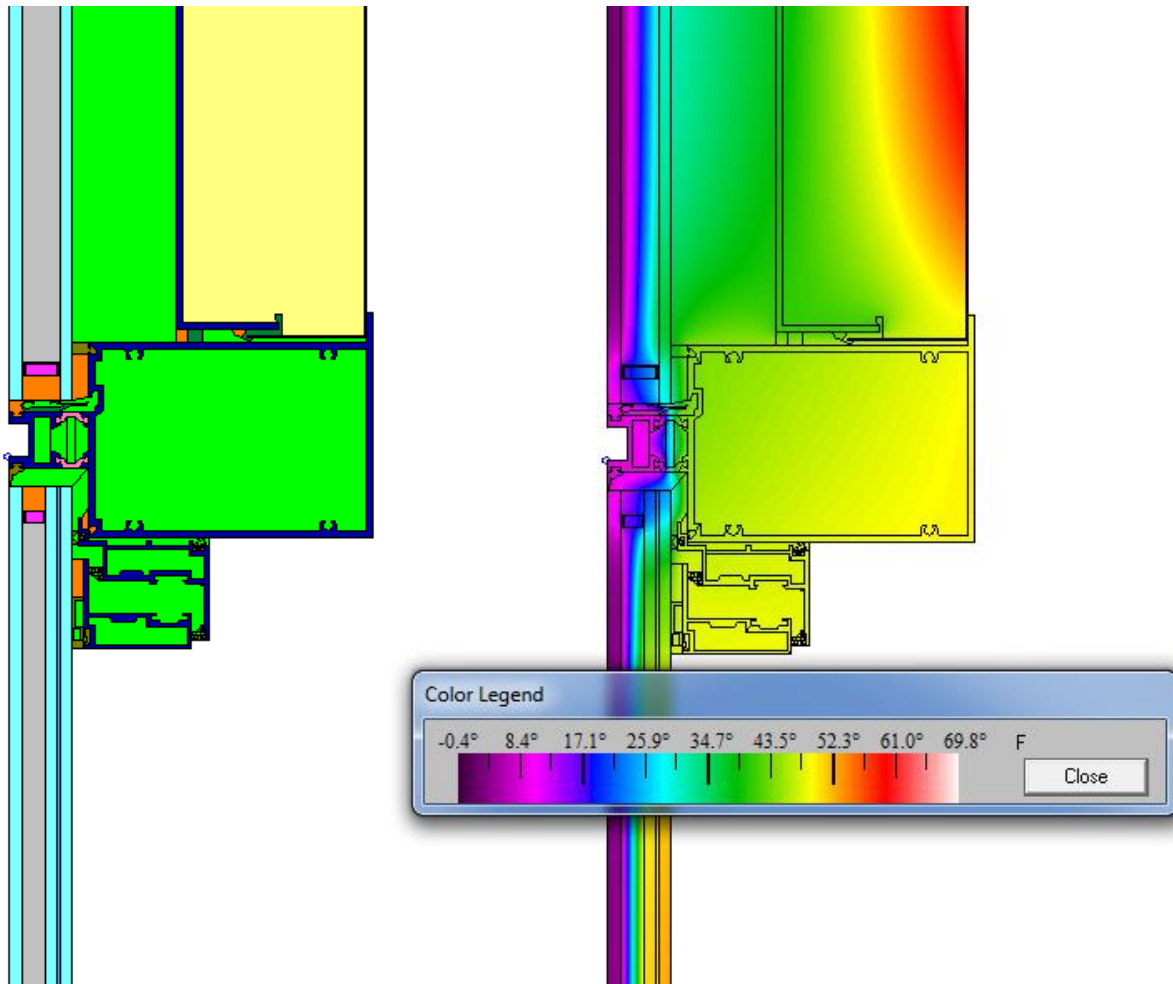


Figure 15: Transom – Spandrel/Operable: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.71 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.70 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.26 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.30 \text{ Btu/h.ft}^2.\text{F}$



5.3.13 Transom – Operable / Vision

In the following, the THERM model is presented graphically

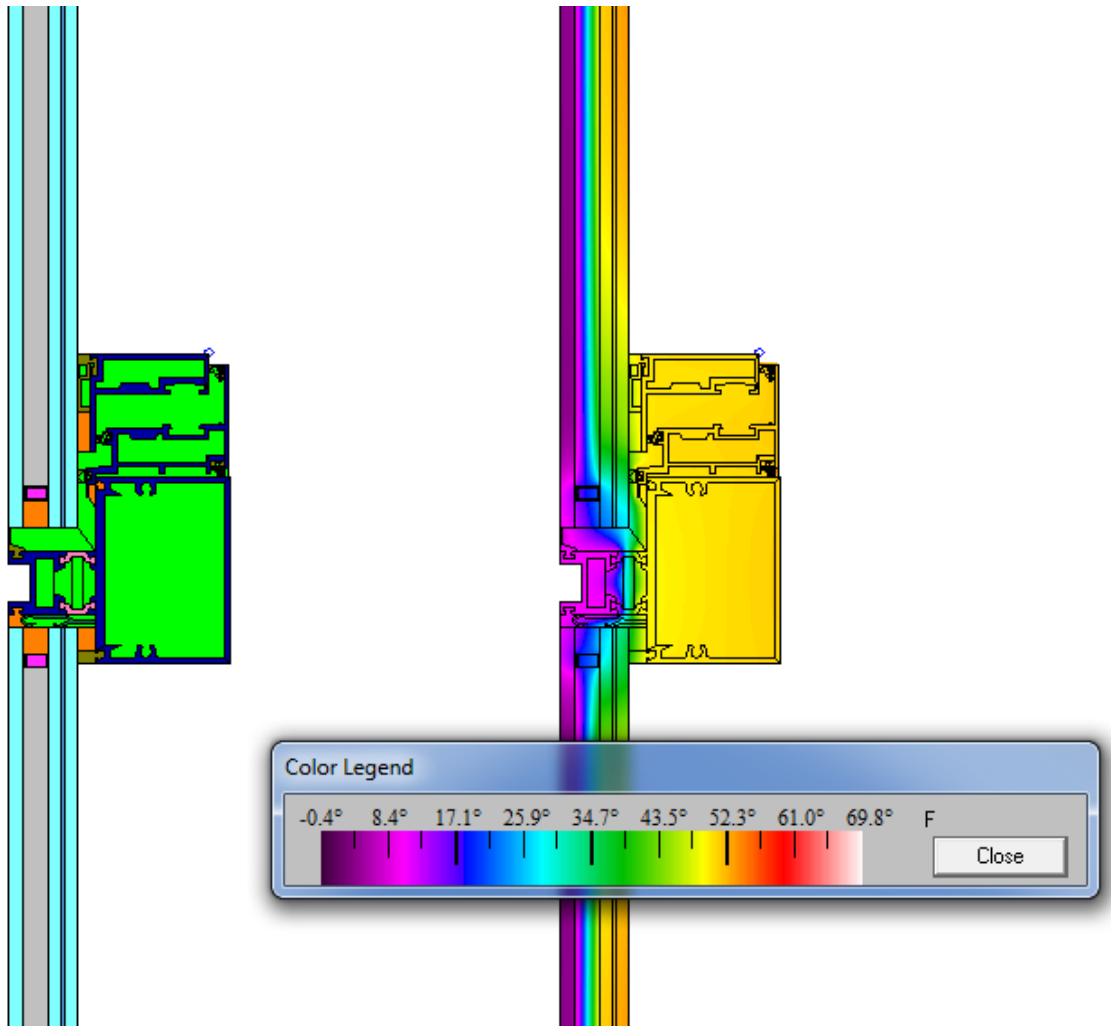


Figure 16: Transom – Operable/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.66 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.19 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.30 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.40 \text{ Btu/h.ft}^2.\text{F}$



5.3.14 Transom – Spandrel / Spandrel

In the following, the THERM model is presented graphically

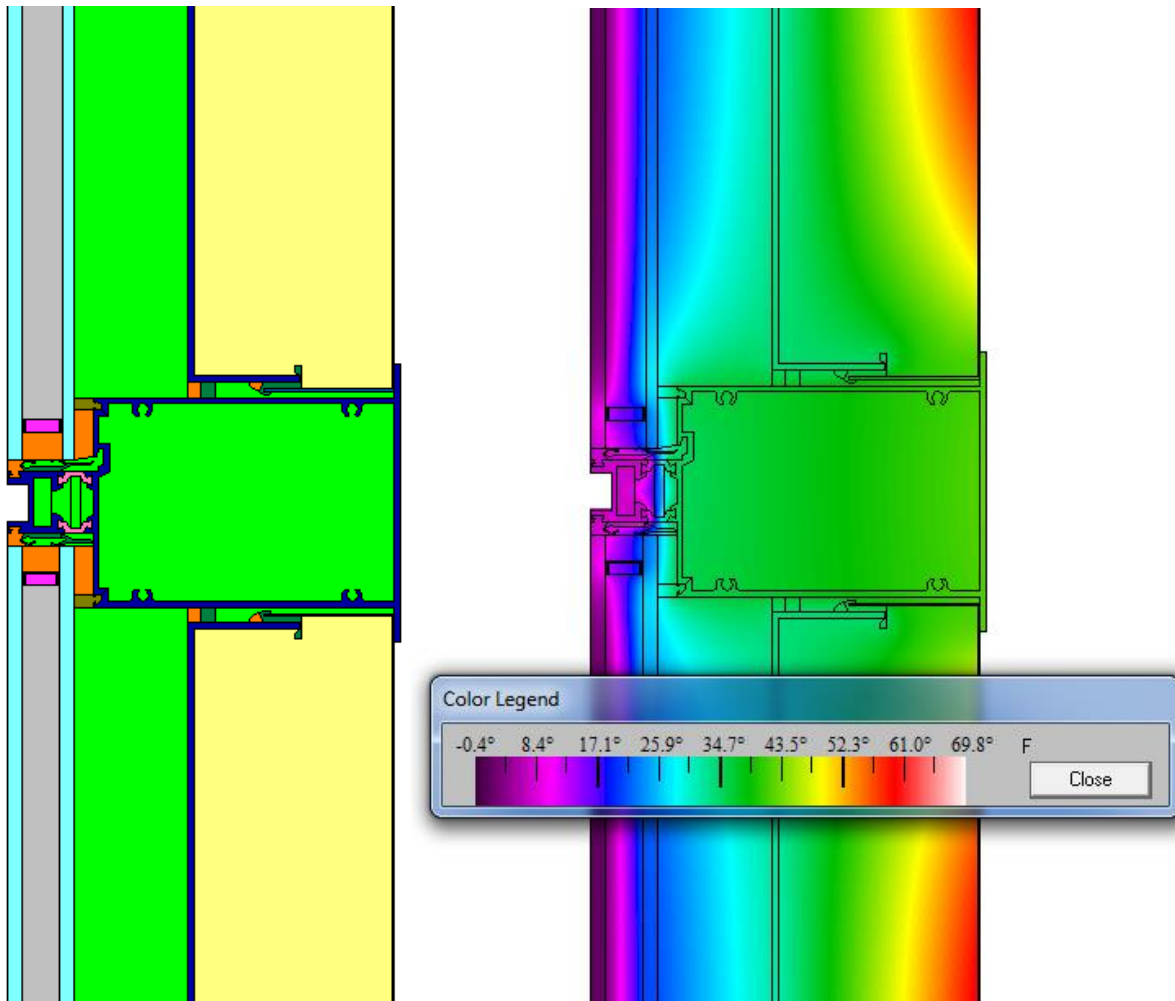


Figure 17: Transom – Spandrel/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.55 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.35 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.4 Overall U-Value

Area weighting of the U-values of all frames, glass and panels is used to calculate the overall U-value for each wall type.

Component	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Dart Mullion - Span/Span	0.14	92.60	0.64	0.09
Left Edge Effect	0.14	23.75	0.16	0.02
Right Edge Effect	0.14	23.75	0.16	0.02
Dart Mullion - Vis/Vis	1.50	620.42	4.31	6.46
Left Edge Effect	0.36	311.88	2.17	0.78
Right Edge Effect	0.36	311.88	2.17	0.78
Intermediate Mullion - Span/Span	0.13	85.00	0.59	0.08
Left Edge Effect	0.12	23.75	0.16	0.02
Right Edge Effect	0.12	23.75	0.16	0.02
Intermediate Mullion - Vis/Op	0.78	683.40	4.75	3.70
Left Edge Effect	0.29	225.75	1.57	0.45
Right Edge Effect	0.35	225.75	1.57	0.55
Intermediate Mullion - Vis/Vis	1.08	136.00	0.94	1.02
Left Edge Effect	0.35	52.03	0.36	0.13
Right Edge Effect	0.35	52.03	0.36	0.13
Mullion - Span/Span	0.14	92.60	0.64	0.09
Left Edge Effect	0.13	23.75	0.16	0.02
Right Edge Effect	0.16	23.75	0.16	0.03
Mullion - Op/Span	0.92	714.00	4.96	4.56
Left Edge Effect	0.31	231.88	1.61	0.50
Right Edge Effect	0.23	231.88	1.61	0.37
Mullion - Vis/Span	1.25	148.16	1.03	1.29
Left Edge Effect	0.23	67.50	0.47	0.11
Right Edge Effect	0.37	67.50	0.47	0.17
Stack Joint - Vis/Span	0.96	139.54	0.97	0.93
Top Edge Effect	0.32	50.93	0.35	0.11
Bottom Edge Effect	0.28	50.93	0.35	0.10
Transom - Vis/Span	0.98	107.82	0.75	0.73
Top Edge Effect	0.27	50.93	0.35	0.10
Bottom Edge Effect	0.35	50.93	0.35	0.12
Stack Joint - Vis/Span	0.96	141.63	0.98	0.94
Top Edge Effect	0.32	51.88	0.36	0.12
Bottom Edge Effect	0.28	51.88	0.36	0.10



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Transom - Span/Op	0.71	156.11	1.08	0.77
Top Edge Effect	0.26	45.75	0.32	0.08
Bottom Edge Effect	0.30	45.75	0.32	0.10
Transom - Op/Vis	0.66	159.39	1.11	0.73
Top Edge Effect	0.30	51.88	0.36	0.11
Bottom Edge Effect	0.40	51.88	0.36	0.14
Stack Joint - Span/Span	0.66	304.54	2.11	1.40
Top Edge Effect	0.36	125.93	0.87	0.31
Bottom Edge Effect	0.35	125.93	0.87	0.31
Transom - Span/Span	0.55	225.25	1.56	0.86
Top Edge Effect	0.35	120.00	0.83	0.29
Bottom Edge Effect	0.35	120.00	0.83	0.29
Vision Glass	0.28	4625.46	32.12	8.99
Spandrel Region	0.05	7133.00	49.53	2.48

Totals	18480.00	128.33	41.51
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Overall U-Value	0.32 [Btu/h.ft².F]
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Table 5: Thermal Transmittance of Wall Type A



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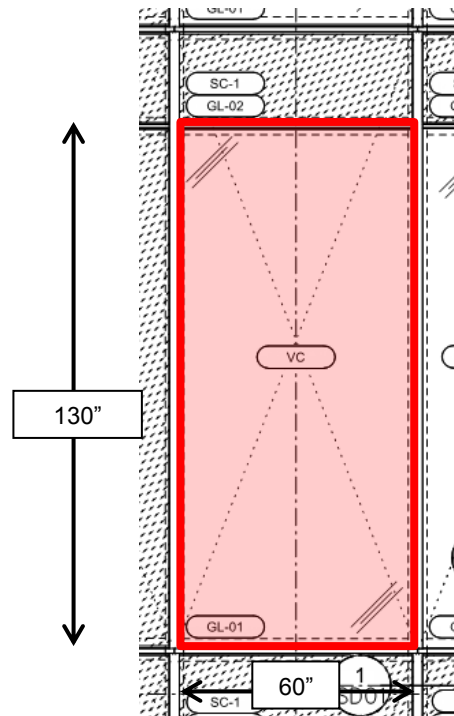


Figure 18: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Spandrel	1.25	601.90	4.18	5.22
Left Section	0.23	308.13	2.14	0.49
Right Section	0.37	308.13	2.14	0.79
Transom - Spandrel / Vision	0.98	235.32	1.63	1.60
Top Section	0.27	132.18	0.92	0.25
Bottom Section	0.35	132.18	0.92	0.32
Vision Glass	0.28	6082.18	42.24	11.83
Totals		7800	54	20.51

Vision U-Value	0.38 [Btu/h.ft ² .F]
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Table 6: Wall Type A Vision U-Value



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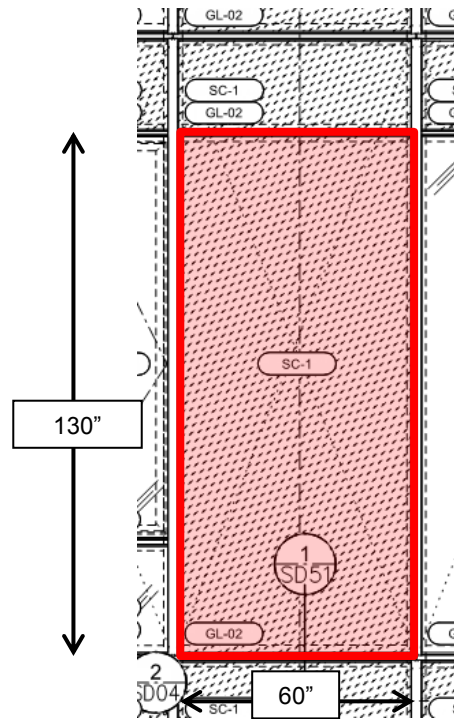


Figure 19: Typical Spandrel Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Dart Mullion - Spandrel / Spandrel	0.14	601.90	4.18	0.59
<i>Left Section</i>	0.14	308.13	2.14	0.30
<i>Right Section</i>	0.14	308.13	2.14	0.30
Transom - Spandrel / Spandrel	0.55	235.32	1.63	0.90
<i>Top Section</i>	0.35	132.18	0.92	0.32
<i>Bottom Section</i>	0.35	132.18	0.92	0.32
Spandrel Region	0.05	6082.18	42.24	2.11
Totals		7800	54	4.84

Spandrel U-Value 0.09 [Btu/h.ft².F]

Table 7: Wall Type A Spandrel U-Value



6 CONDENSATION ASSESSMENT

The minimum internal surface temperature of the curtain wall has been assessed for each model using THERM 6.3 software using the specified Boundary Conditions. The absolute Minimum Temperature in the surface was found to be $t_{si,min}=39.2^{\circ}\text{F}$ on the Mullion – Vision/Spandrel location of the façade (see following table).

Wall Type	Components	Dew Point Temperature ($^{\circ}\text{F}$)	Minimum Surface Temperature ($^{\circ}\text{F}$)	Maximum Allowed Relative Humidity (%)
Wall Type A	Dart Mullion – Spandrel/Spandrel	39.1	53.4	59.5
	Dart Mullion – Vision/Vision		39.2	35.0
	Intermediate Mullion – Spandrel/Spandrel		54.4	61.8
	Intermediate Mullion – Vision/Operable		42.5	39.5
	Intermedaite Mullion – Vision/Vision		42.4	39.4
	Mullion – Spandrel/Spandrel		52.0	56.6
	Mullion – Operable/Spandrel		39.8	35.6
	Mullion – Vision/Spandrel		39.2	35.0
	Stack Joint – Vision/Spandrel		43.3	40.8
	Stack Joint – Spandrel/Spandrel		41.8	38.5
	Transom – Vision/Spandrel		39.9	35.7
	Transom – Spandrel/Operable		47.2	47.3
	Transom – Operable/Vision		39.3	35.1
	Transom – Spandrel/Spandrel		42.6	39.7

Table 8: Condensation Assessment for Typical Details

With internal temperature of 68°F and Relative Humidity of 35% RH the Dew Point Temperature is 39.1°F . For the given Boundary Conditions, condensation will not occur on the interior surface of the façade and the performance is acceptable. Following THERM models of some critical sections are presented along with the Dew Point Isothermal Line as well as a temperature distribution for the specified Boundary Conditions.

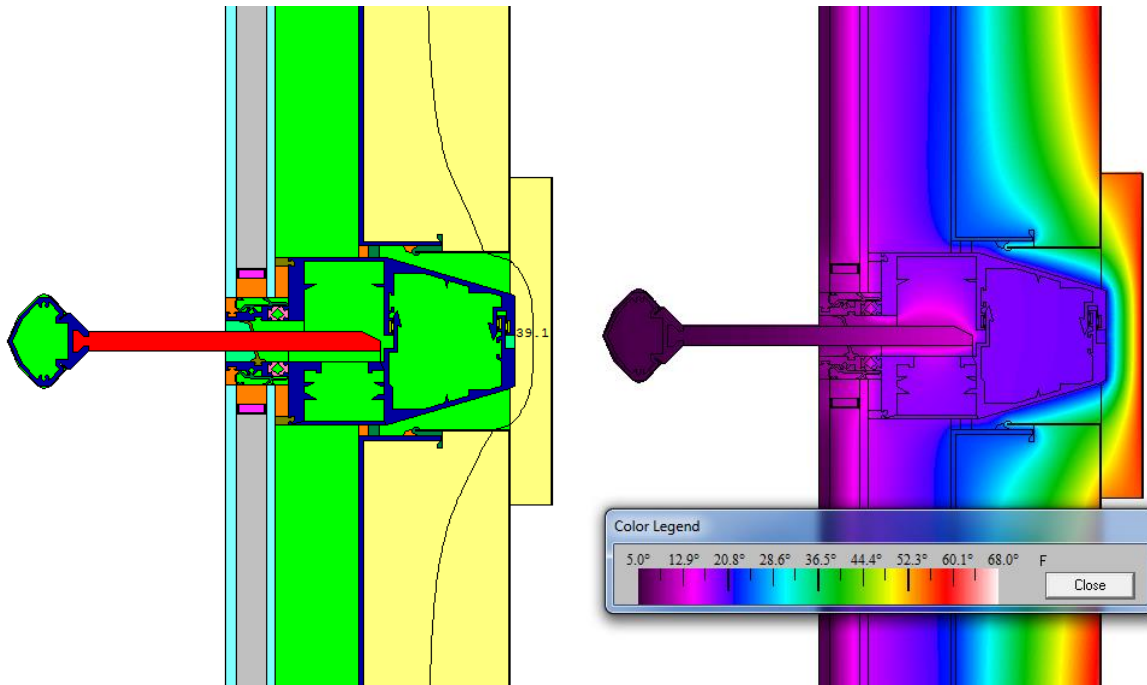


Figure 20: Dart Mullion – Spandrel/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

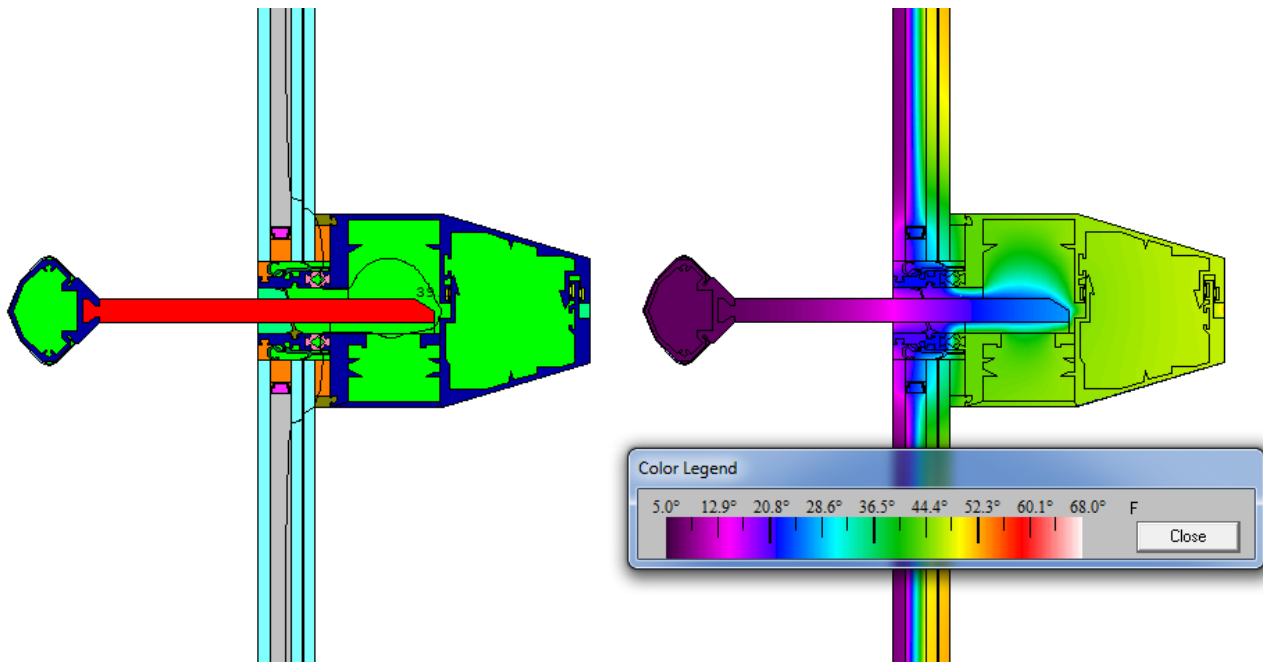


Figure 21: Dart Mullion – Vision/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)



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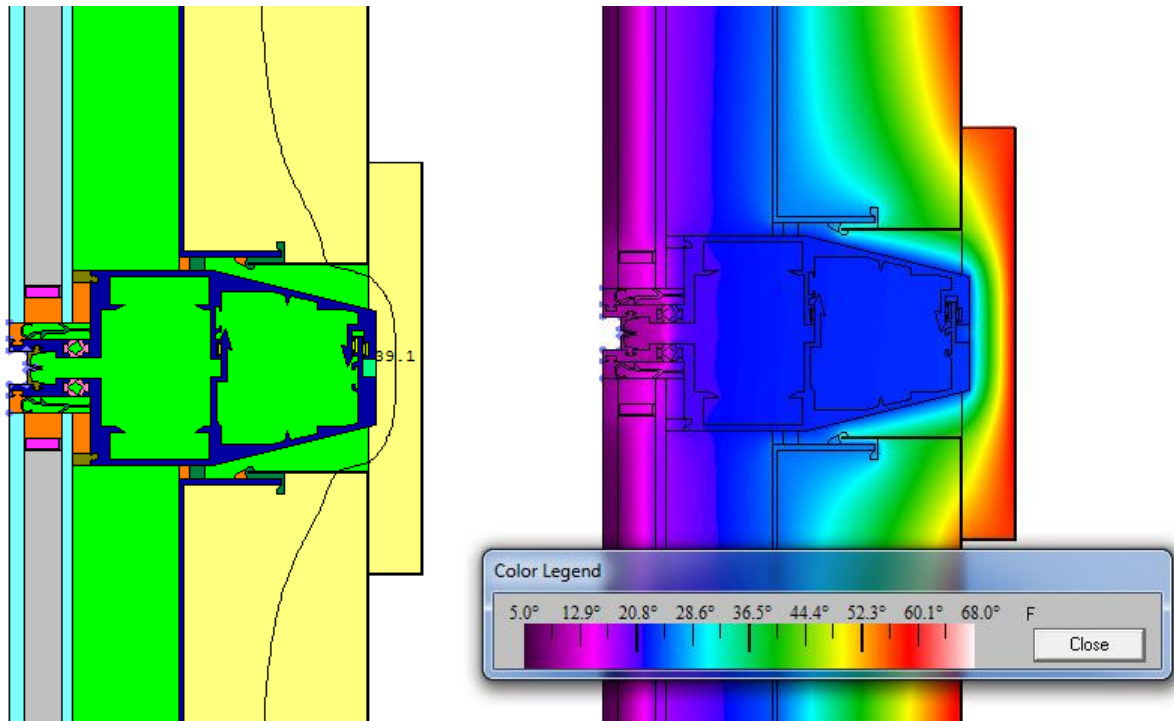


Figure 22: Intermediate Mullion – Span/Span: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

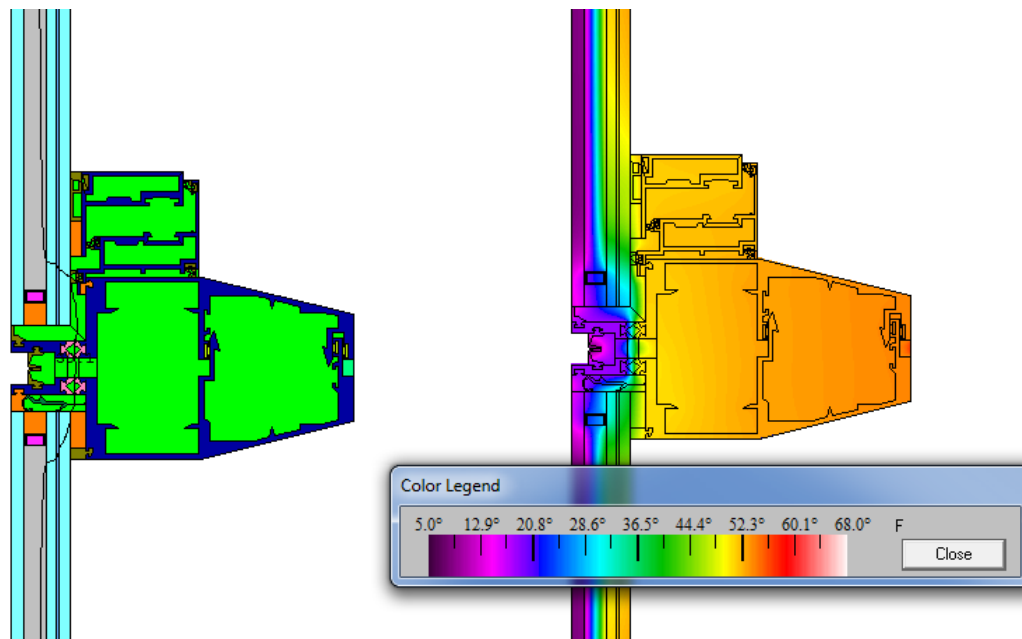


Figure 23: Intermediate Mullion – Vision/Operable: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

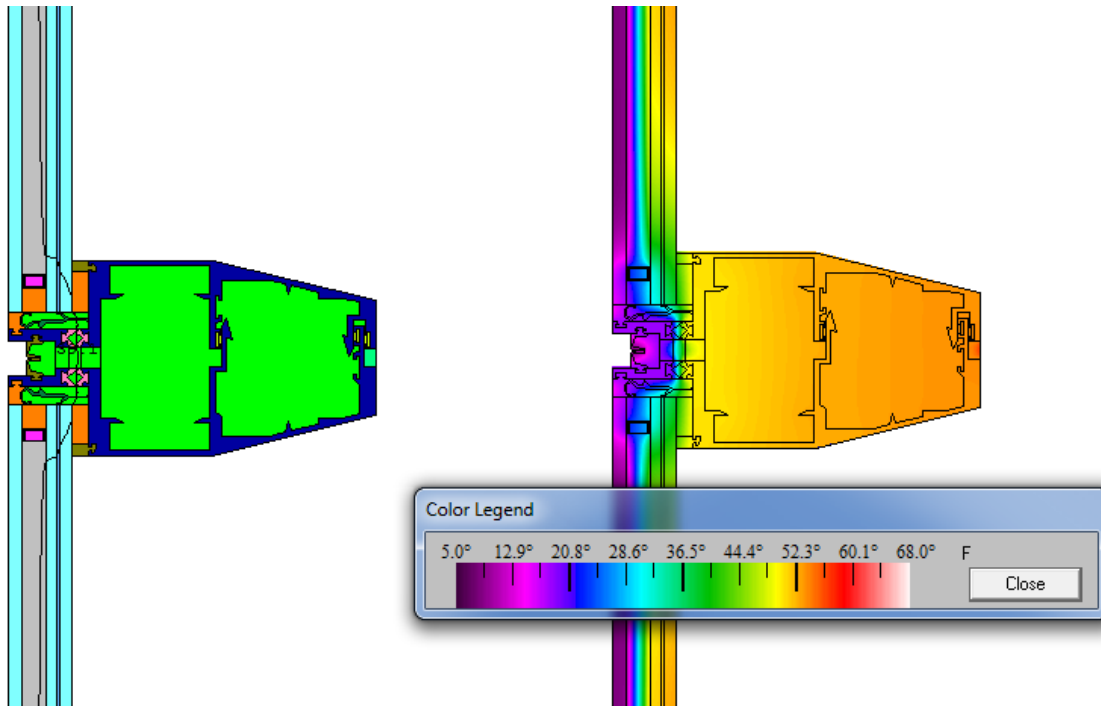


Figure 24: Intermediate Mullion – Vision/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

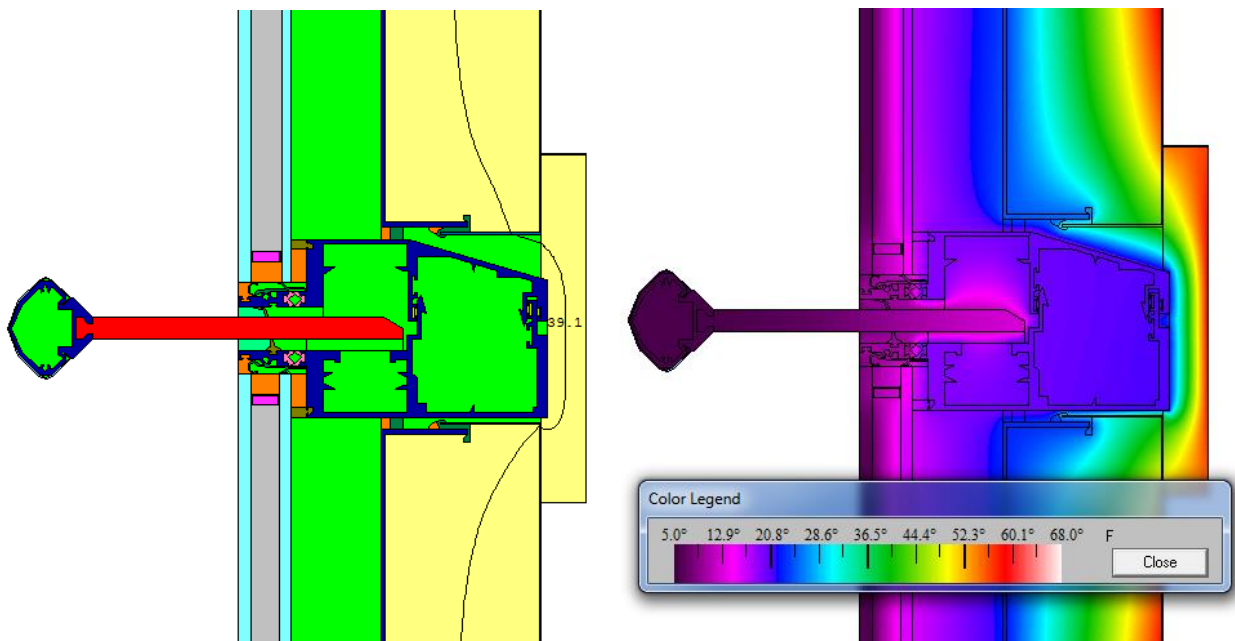


Figure 25: Mullion – Spandrel/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

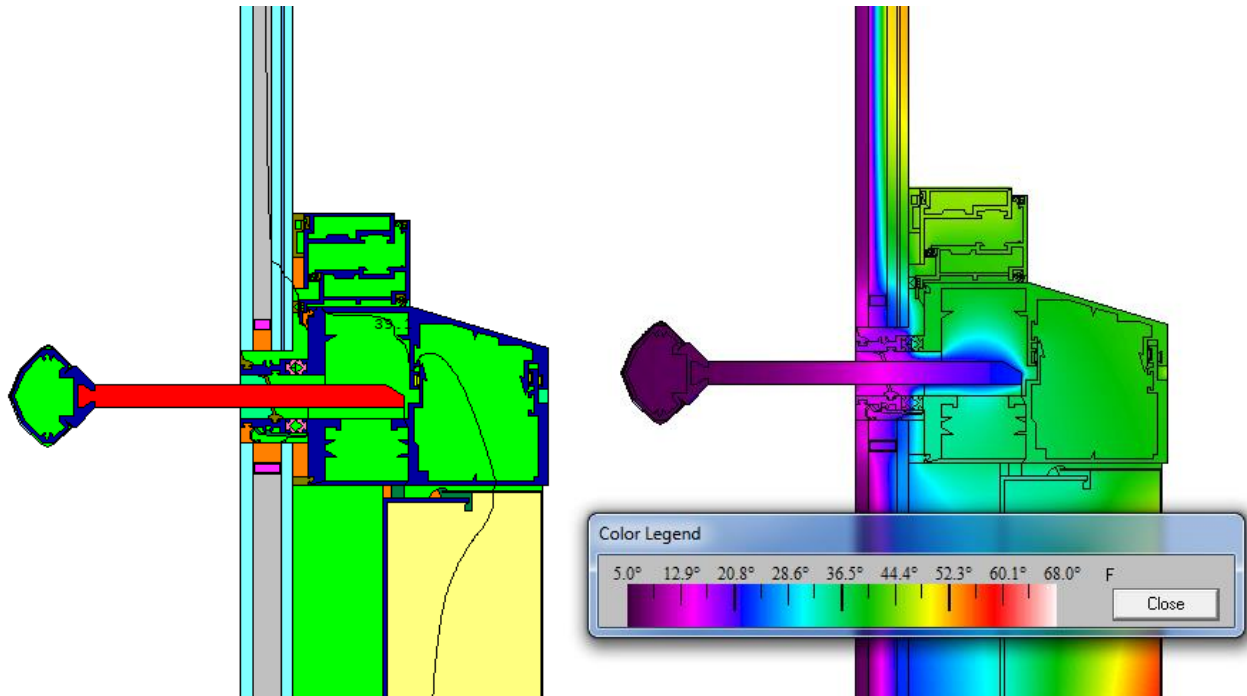


Figure 26: Mullion – Operable/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

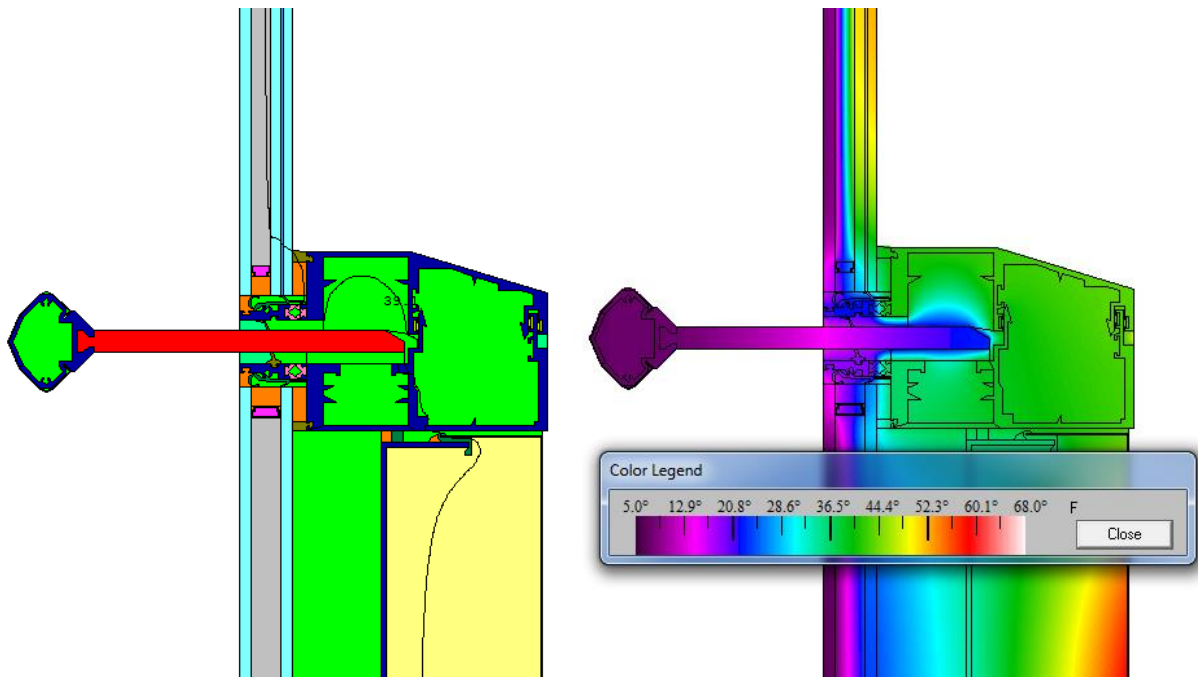


Figure 27: Mullion – Vision/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

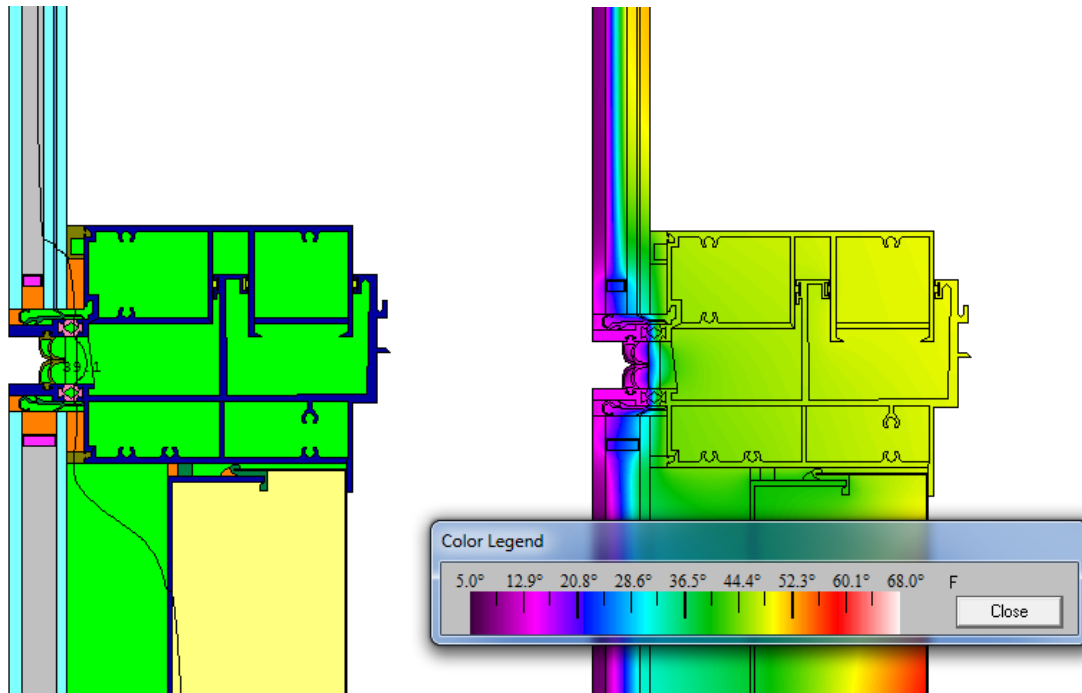


Figure 28: Stack Joint – Vision/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

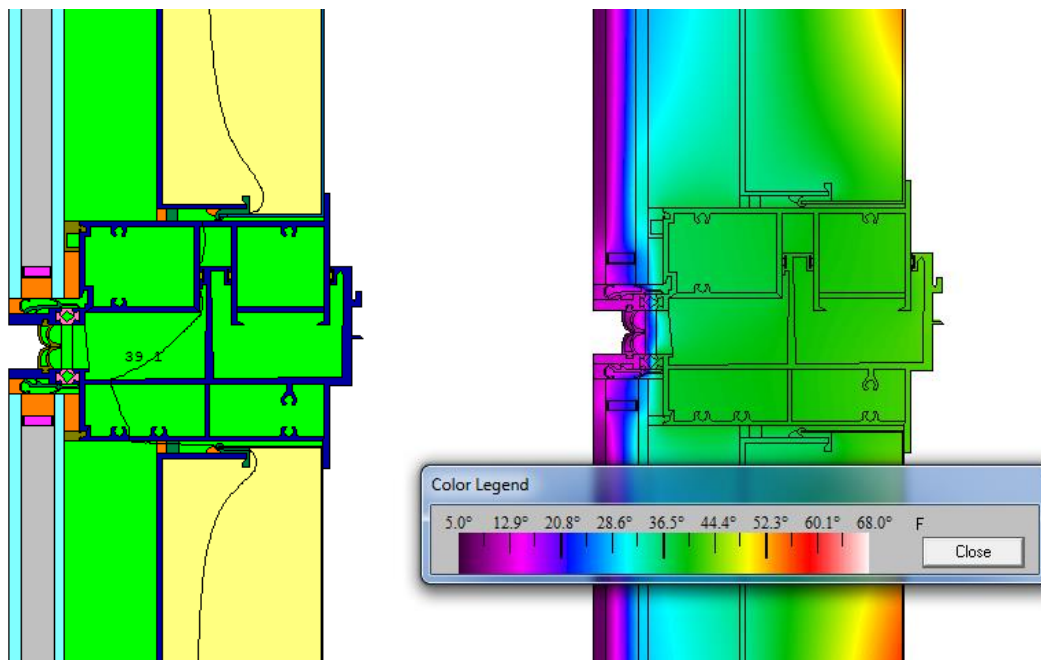


Figure 29: Stack Joint – Spandrel/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

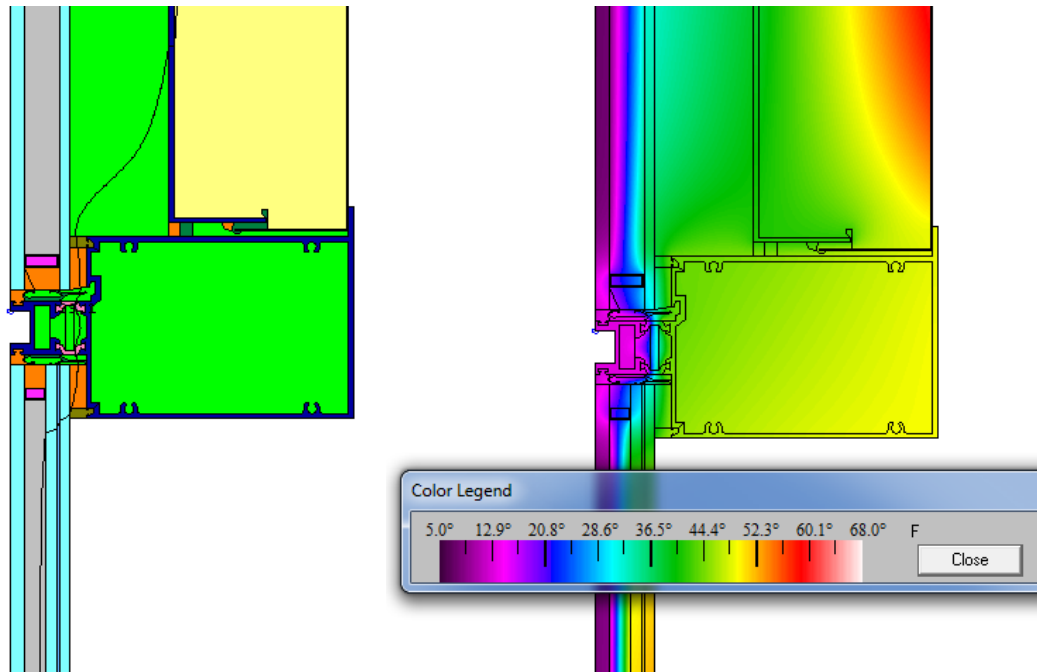


Figure 30: Transom – Vision/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

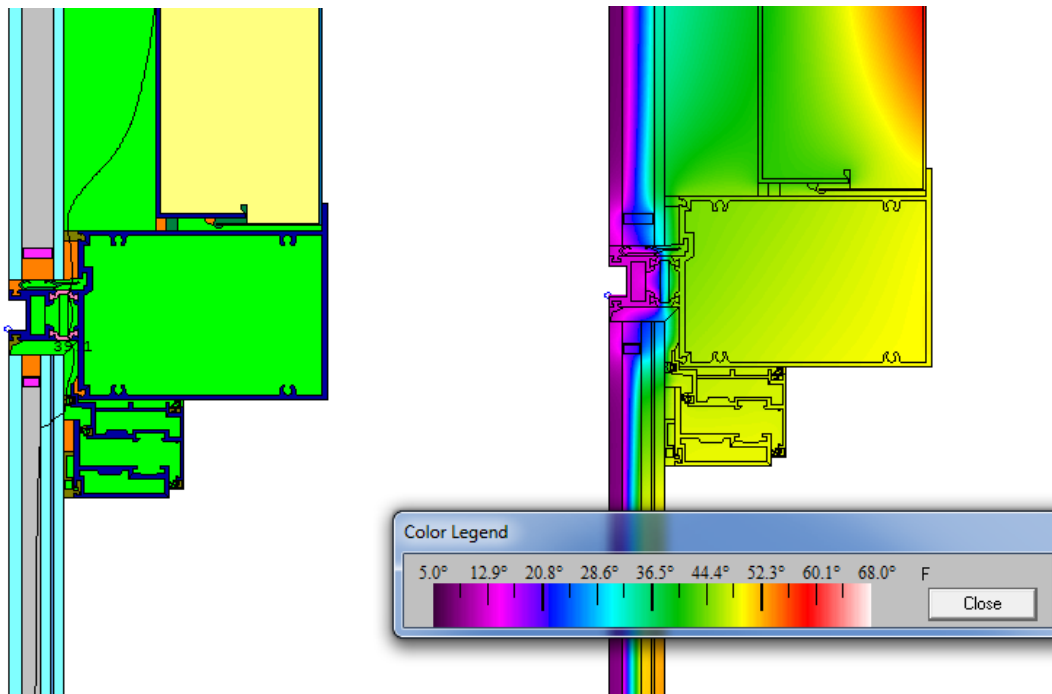


Figure 31: Transom – Spandrel/Operable: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

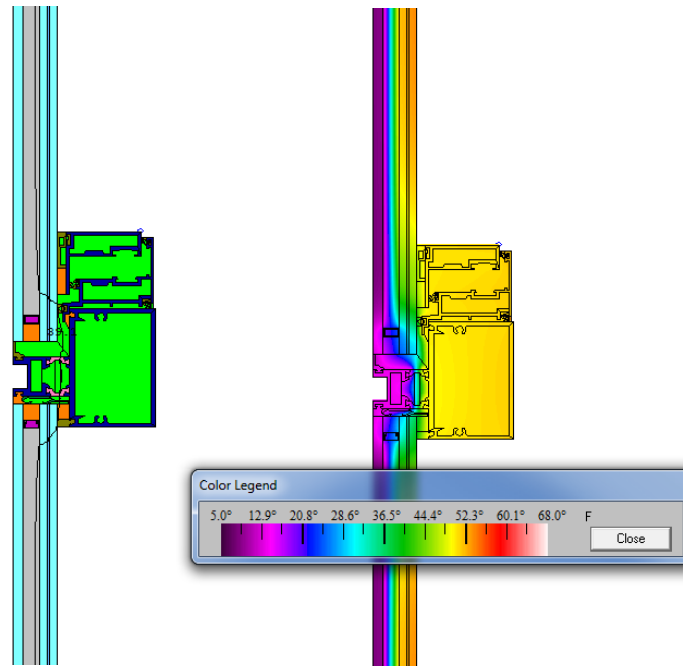


Figure 32: Transom – Operable/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

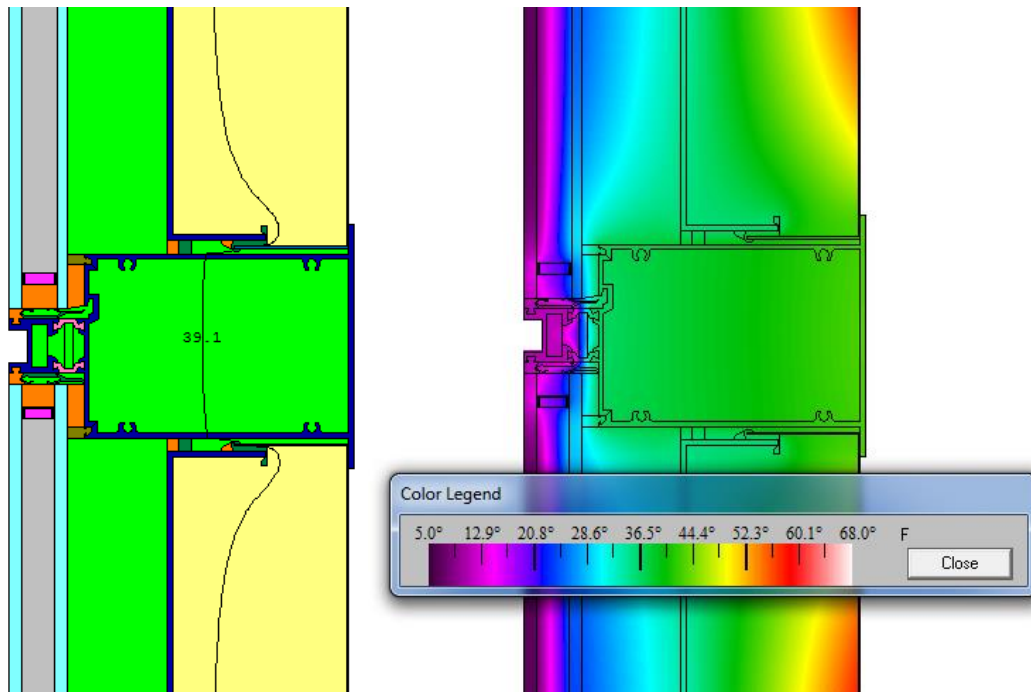


Figure 33: Transom – Spandrel/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)



7 REFERENCES

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ISO 10077-2: 2003	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames
ISO 10211: 2007	Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations
ISO 13788:2001	Hydrothermal performance of building components and building elements - Internal surface temperature to avoid critical surface humidity and interstitial condensation - Calculation methods
ISO 15099: 2003	Thermal performance of windows, doors and shading devices - Detailed calculations
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NFRC 200: 2010	Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
NFRC 300: 2010	Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems
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PHYSIBEL	BISCO 9.0w Software TRISCO 12.0w Software



PERMASTEELISA NORTH AMERICA

217 WEST 57TH STREET

PROJECT 865

NEW YORK, NY



EXTERIOR WALL PACKAGE

SYSTEM DESIGN - THERMAL CALCULATIONS (WALL TYPE B)

DOC NAME: 90918 TC 002-02-150812 JH

EXTELL DEVELOPMENT COMPANY

ADRIAN SMITH & GORDON GILL

AJLP CONSULTING

LEND LEASE

Rev.	Date	Description	Prepared by	Checked by
02	08/12/2015	Third Submission	JH	JH
01	05/29/2015	Second Submission	JH	AF
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1 SUMMARY

THERM 6.3 software was used to analyze the two-dimensional heat transfer through the frame and glazing edge areas. The frame U-values have been derived using THERM 6.3 according to NFRC standard.

Main results are reported in the following:

Wall Type		U - Factor BTU/(h·ft ² ·°F)	Overall U - Factor BTU/(h·ft ² ·°F)	SHGC (Dimensionless)	Condensation Resistance (%)
WT-B	WT-B Vision	0.37	0.30	0.28	35.1
	WT-B Opaque	0.17			

Table 1: Summary of Results



2 THERM KEY

Material	Thermal Conductivity (Btu/h.ft ² .F)	Model Color
Aluminum Alloy (Painted)	92.45	
Butyl Rubber	0.14	
Ethylene Propylene Diene Monomer (EPDM)	0.14	
Frame Cavity NFRC	Calculated by THERM	
Frame Cavity Slightly Ventilated	Calculated by THERM	
Glass (Plate or Float)	0.58	
IGU Gap Cavity	0.02	
Insulation	0.02	
Neoprene (Polychloroprene)	0.13	
PVC	0.10	
Polyamide 6.6 with 25% Glass Fiber	0.17	
Polyurethane Foam	0.03	
Silica Gel (Desiccant)	0.08	
Silicone Gasket	0.20	
Silicone Sealant	0.20	
Steel – Galvanized Sheet (0.14%C)	35.82	
Steel – Stainless (Buffed)	9.82	

Table 2: THERM Material Color Key



3 BOUNDARY CONDITIONS

Calculation	Standard	Cold-Side Environmental Temperature	Warm-Side Environmental Temperature	External Wind Speed	External Heat Transfer Coefficient	Internal Relative Humidity	Internal Heat Transfer Coefficient
Thermal Transmittance	NFRC (100-2010)	-0.4°F	69.8°F	12.3mph	4.58 Btu/h-ft²-F	----	0.53 Btu/h-ft²-F
Condensation Assessment	Project Specification (06/02/14)	5.0°F	68.0°F	15.0mph	5.43 Btu/hft²-F	35%	0.53 Btu/h-ft²-F

Table 3: Boundary Conditions



4 GENERAL DESCRIPTION

This report must be read in conjunction with PermaSteelisa's system drawings August 20th 2015. The thermal performance of the typical façade type is stated in the following report. The overall U-value, as well as Condensation Assessment of the curtain wall panels have been performed according to the (NFRC), (ASHRAE) and (ISO) Standards.

Typical elevation and sections are shown in the following figure.

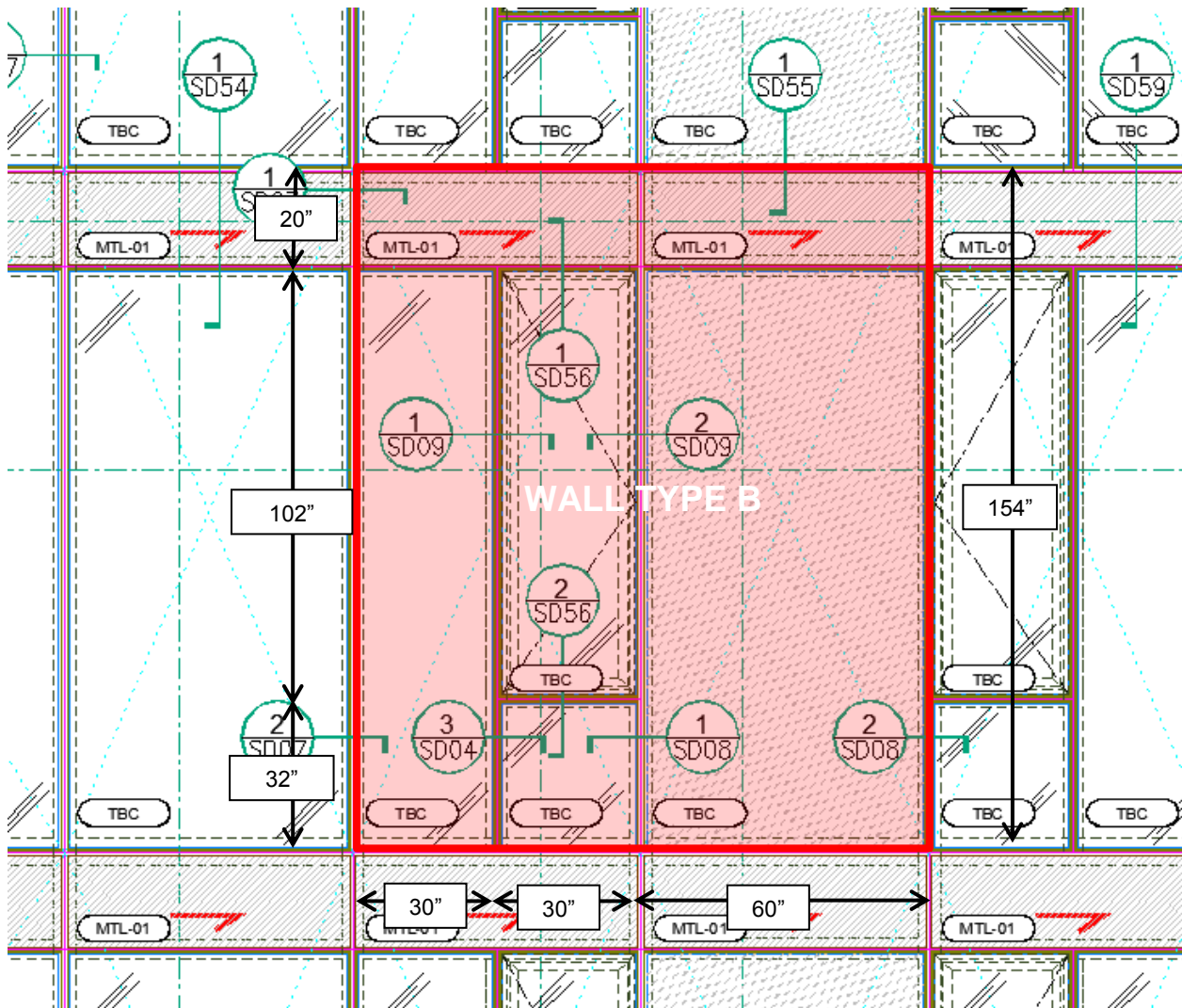


Figure 1: Wall Type B (SE02)



5 THERMAL TRANSMITTANCE

5.1 Thermal Transmittance Calculation Method

The heat transfer through the frame and glazing is assessed as described in the thermal guide (NFRC) and (ISO15099).

There are then the following thermal transmittances (U-values):

- Centre-glazing U-value U_g , which is assumed to apply to the whole of the glazing (defined in section 5.2.1);
- Centre-panel U-value U_{sp} , which is assumed to apply to the whole of the spandrel panel (defined in section 5.2.2);
- Frame U-value U_f (defined in section 5.3);
- Edge U-value U_{edge1} , U_{edge2} , to take into account the heat transfer due to the interaction (edge effect) between the framing and glazing/spandrel panel (defined in section 5.3).

The overall U-value of the curtain wall is then calculated by using the principle of the area weighting of U-values of the frames and glass (as explained in section 5.4).

5.2 Center U-Value

One-dimensional center U-value calculation has been performed for glass and spandrel.

5.2.1 Glazing

The calculations have been performed with the following glass for the typical elevation. (Calculated with Window 6.3 Software according to NFRC):

Glass Makeup:

Outer-lite:	5/16" IPASOL PLATIN 46/31 on Surface # 2 (Interpane)
Cavity:	1/2" Air with Stainless Steel Spacers
Inner-lite:	1/4" – 0.060" – 1/4" Laminate



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Glazing System Library

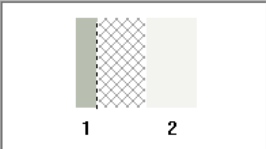
ID #: 62 Name: Hardrock Spec Glass

Layers: 2 Tilt: 90 °

Environmental Conditions: NFRC 100-2010

Comment:

Overall thickness: 1.263 inches Mode: ?



	ID	Name	Mode	Thick	Flip	Tsol	Rsol1	Rsol2	Tvis	Rvis1	Rvis2	Tir	E1	E2	Cond	Comment
▼ Glass 1 ▶▶	7119	ip4729plipe	#	0.236	<input type="checkbox"/>	0.274	0.429	0.538	0.506	0.380	0.259	0.000	0.840	0.037	0.578	
Gap 1 ▶▶	1	Air		0.500	<input type="checkbox"/>											
▼ Glass 2 ▶▶	30813	6mm-6mm Laminate.usr		0.527	<input type="checkbox"/>	0.809	0.077	0.077	0.901	0.082	0.082	0.000	0.837	0.837	0.418	

Center of Glass Results | Temperature Data | Optical Data | Angular Data | Color Properties

Ufactor	SC	SHGC	Rel. Ht. Gain	Tvis	Keff
Btu/h-ft ² -F			Btu/h-ft ²		Btu/h-ft-F
0.284	0.323	0.281	68.3	0.466	0.0174

Figure 2: WINDOW 6 Model

Standard	Glass Characteristics	Value
NFRC 100 -2010	Thermal Transmittance (Btu/h.ft ² .F)	0.28
NFRC 200 – 2010	Solar Heat Gain Coefficient	0.28

Table 4: 1 Dimensional Analysis Summary



5.2.2 Spandrel Panel (Wall Type B)

In the following, the THERM model is presented graphically

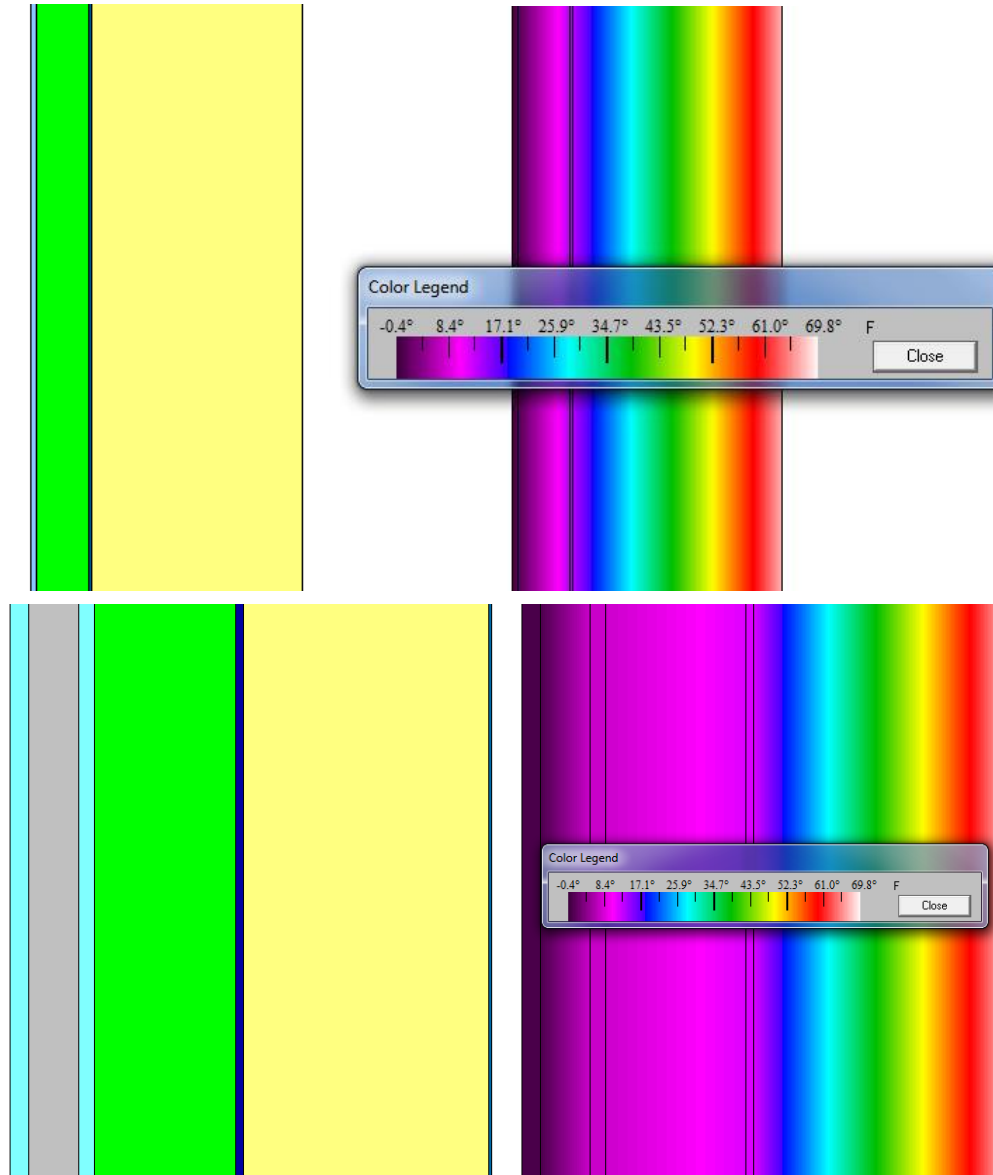


Figure 3: Spandrel Region: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Thermal Transmittance	$U_{sp} = 0.05 \text{ Btu/h.ft}^2.\text{F}$
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5.3 Wall Type B Frame U-Value

The frames have been modeled by means of 2-dimensional FEM analysis, using the THERM program (version 6.3) by the Lawrence Berkeley National Laboratory. Material properties have been assigned as per THERM internal library.

The frame has been modeled including stainless steel glazing spacers.

The projected width of the solid part of the framing (excluding the glazing gaskets) is measured from the inside. For each of the models, the projected width of the frames is stated along with the frame U-value.

5.3.1 Mullion - Metal / Metal

In the following, the THERM model is presented graphically

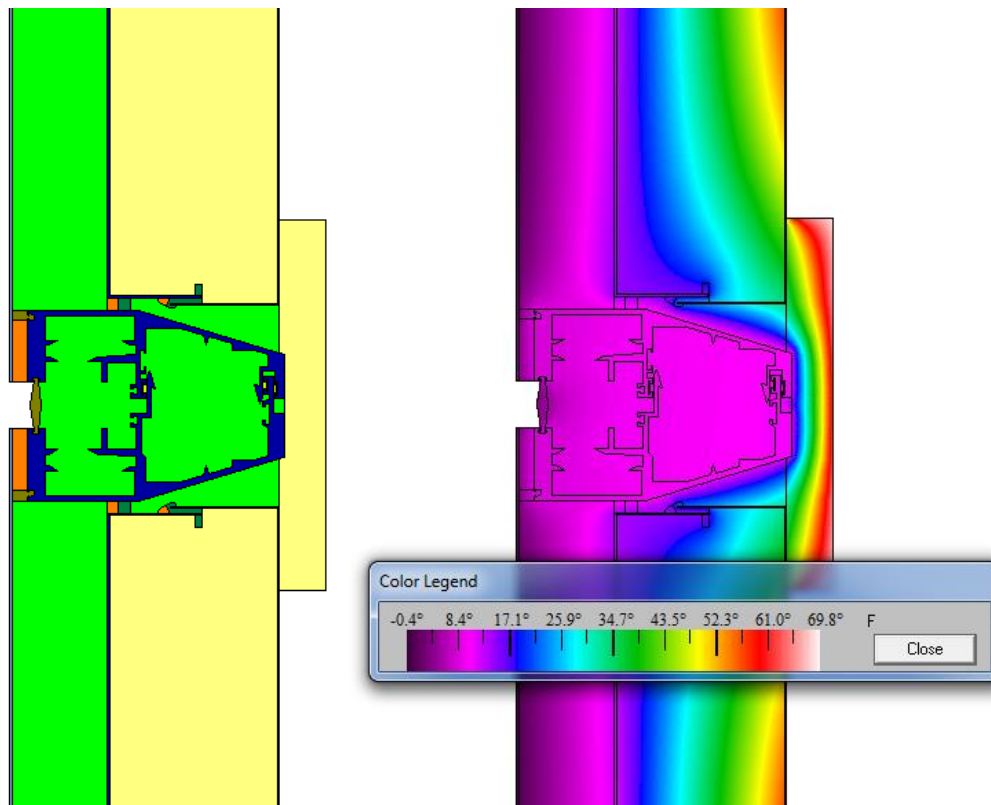


Figure 4: Mullion – Metal/Metal: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.15 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.15 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.15 \text{ Btu/h.ft}^2.\text{F}$



5.3.2 Mullion – Vision / Vision

In the following, the THERM model is presented graphically

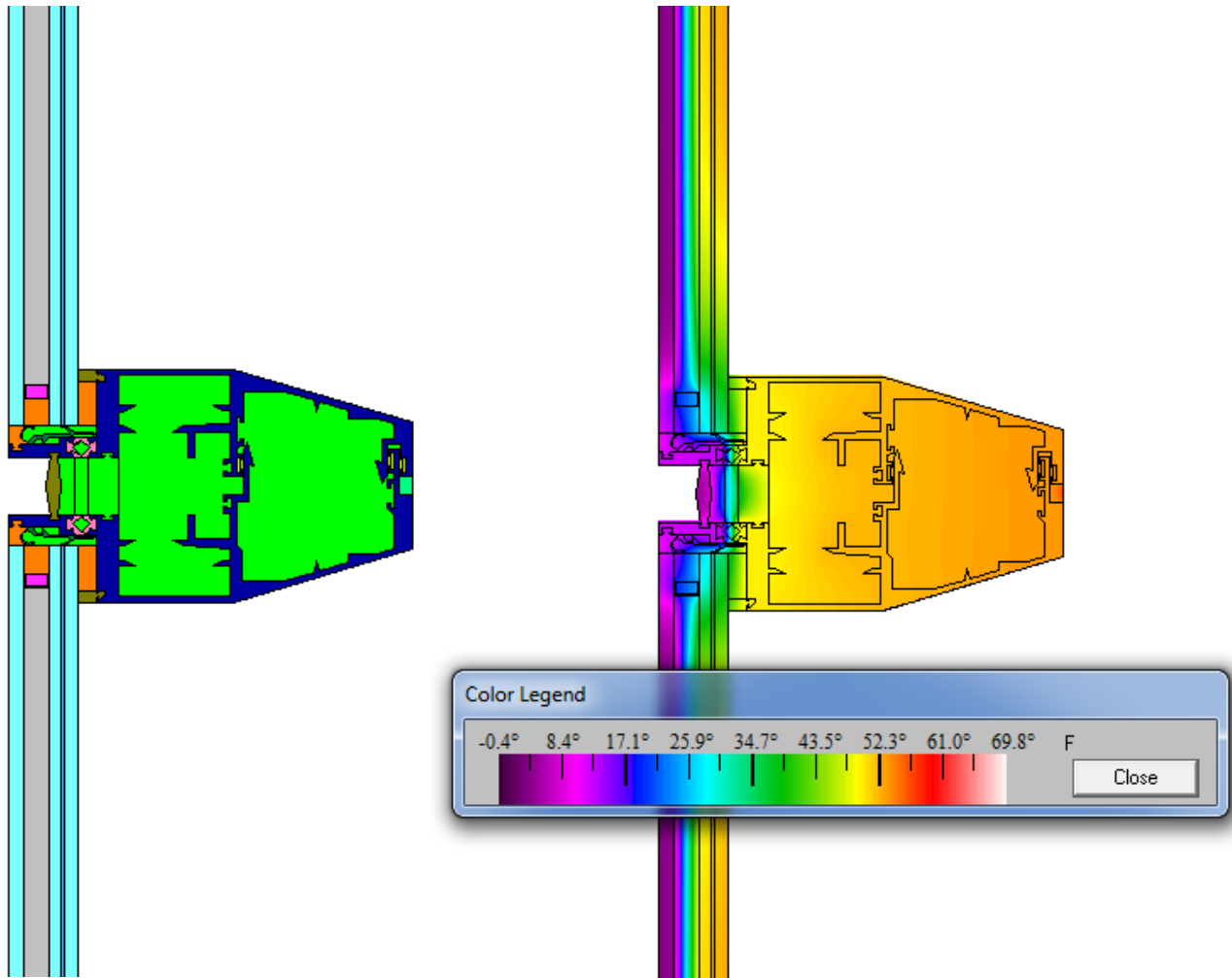


Figure 5: Mullion – Vision/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.05 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.35 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.3.3 Intermediate Mullion – Vision / Operable

In the following, the THERM model is presented graphically

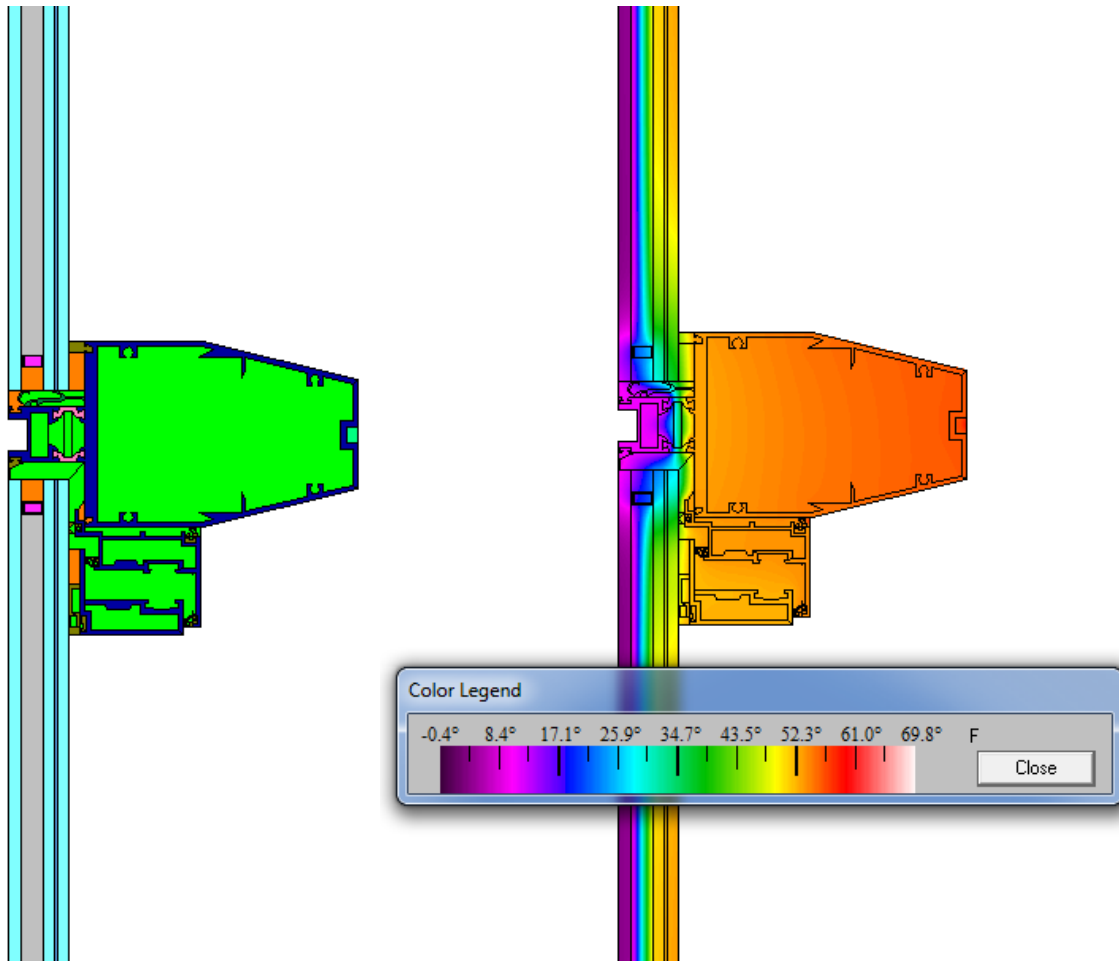


Figure 6: Intermediate Mullion – Vision/Operable: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.70 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.70 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.35 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.29 \text{ Btu/h.ft}^2.\text{F}$



5.3.4 Intermediate Mullion – Vision / Vision

In the following, the THERM model is presented graphically

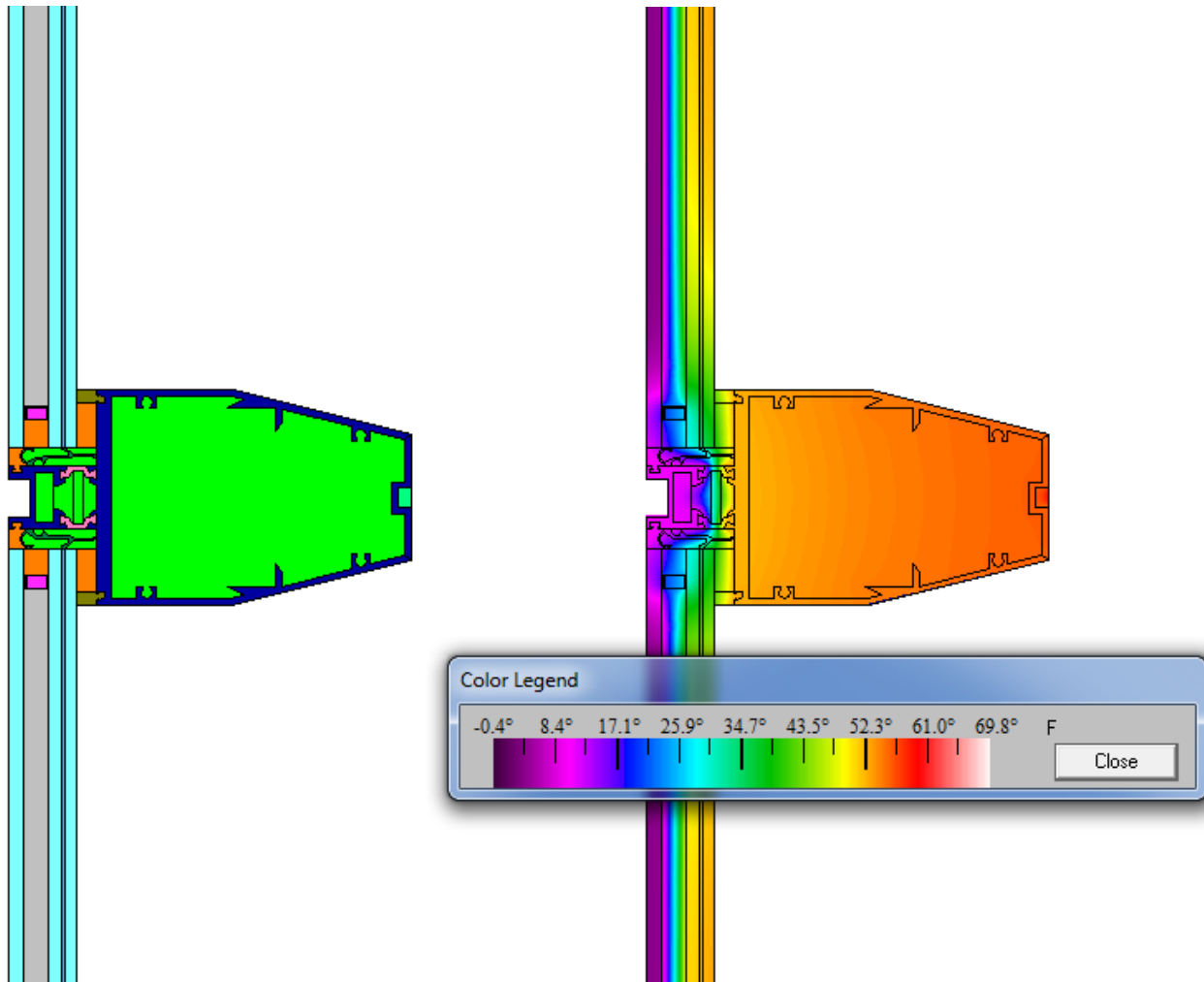


Figure 7: Intermediate Mullion – Vision/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.96 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.35 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.3.5 Mullion 2 – Operable / Spandrel

In the following, the THERM model is presented graphically

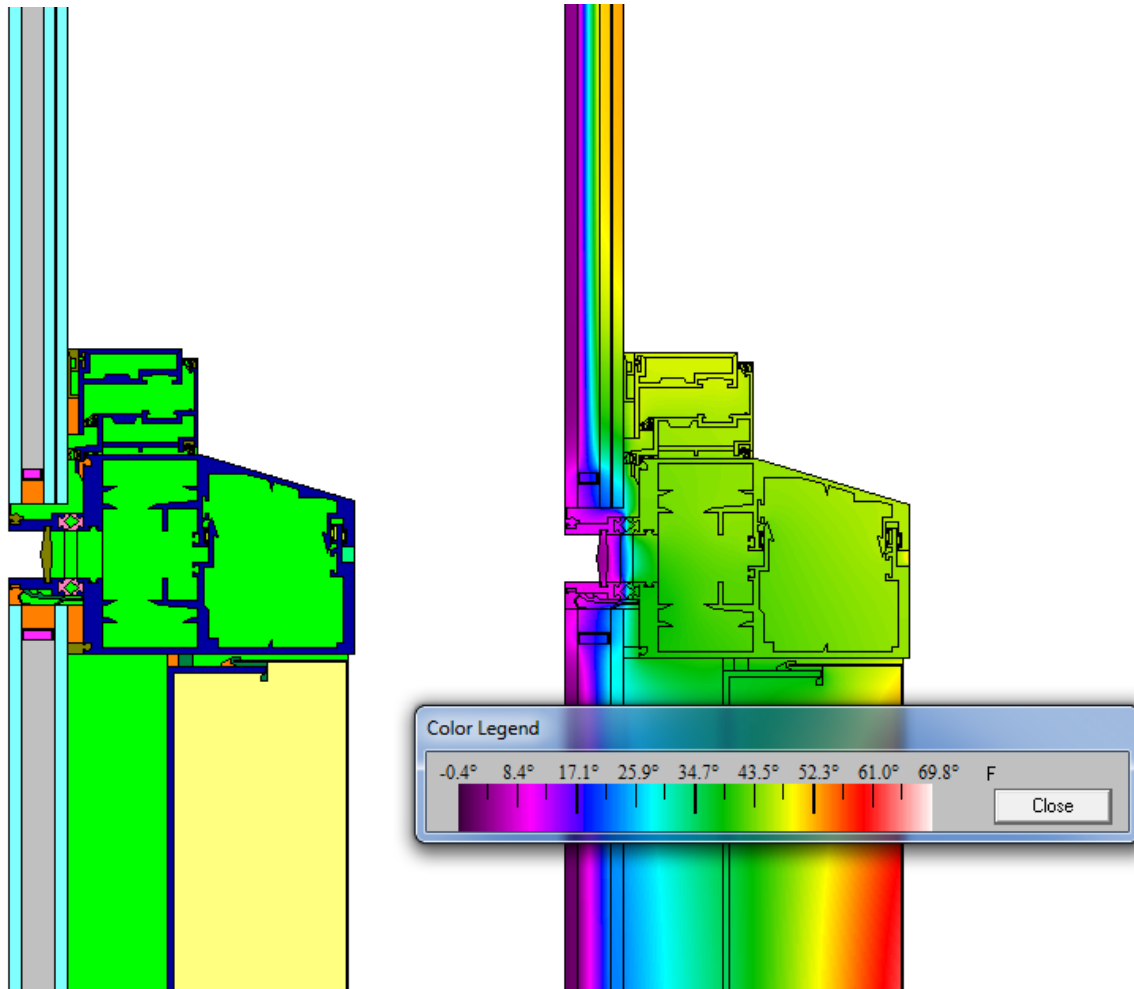


Figure 8: Mullion – Operable/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.75 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 7.00 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.30 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.19 \text{ Btu/h.ft}^2.\text{F}$



5.3.6 Mullion 2 – Vision / Spandrel

In the following, the THERM model is presented graphically

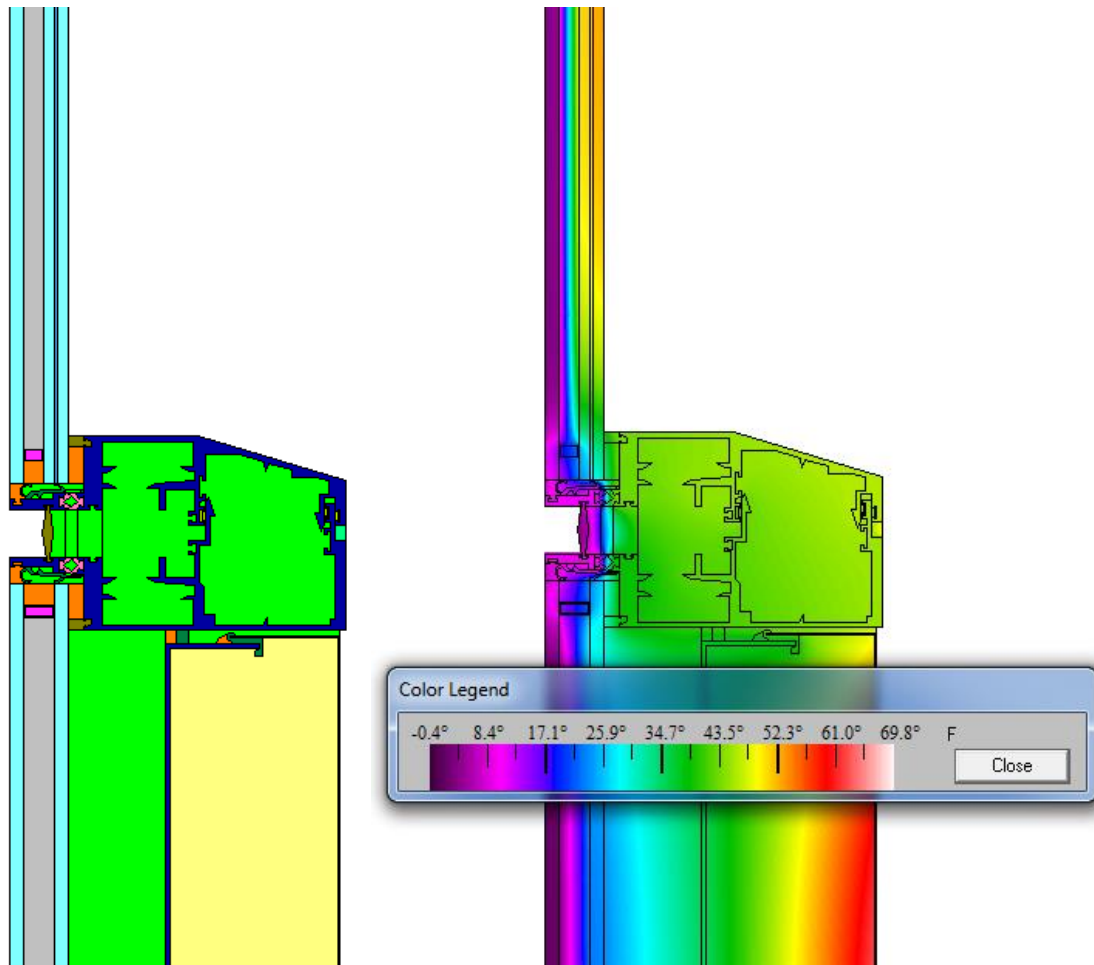


Figure 9: Mullion – Vision/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.98 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.37 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.19 \text{ Btu/h.ft}^2.\text{F}$



5.3.7 Stack Joint – Vision / Metal

In the following, the THERM model is presented graphically

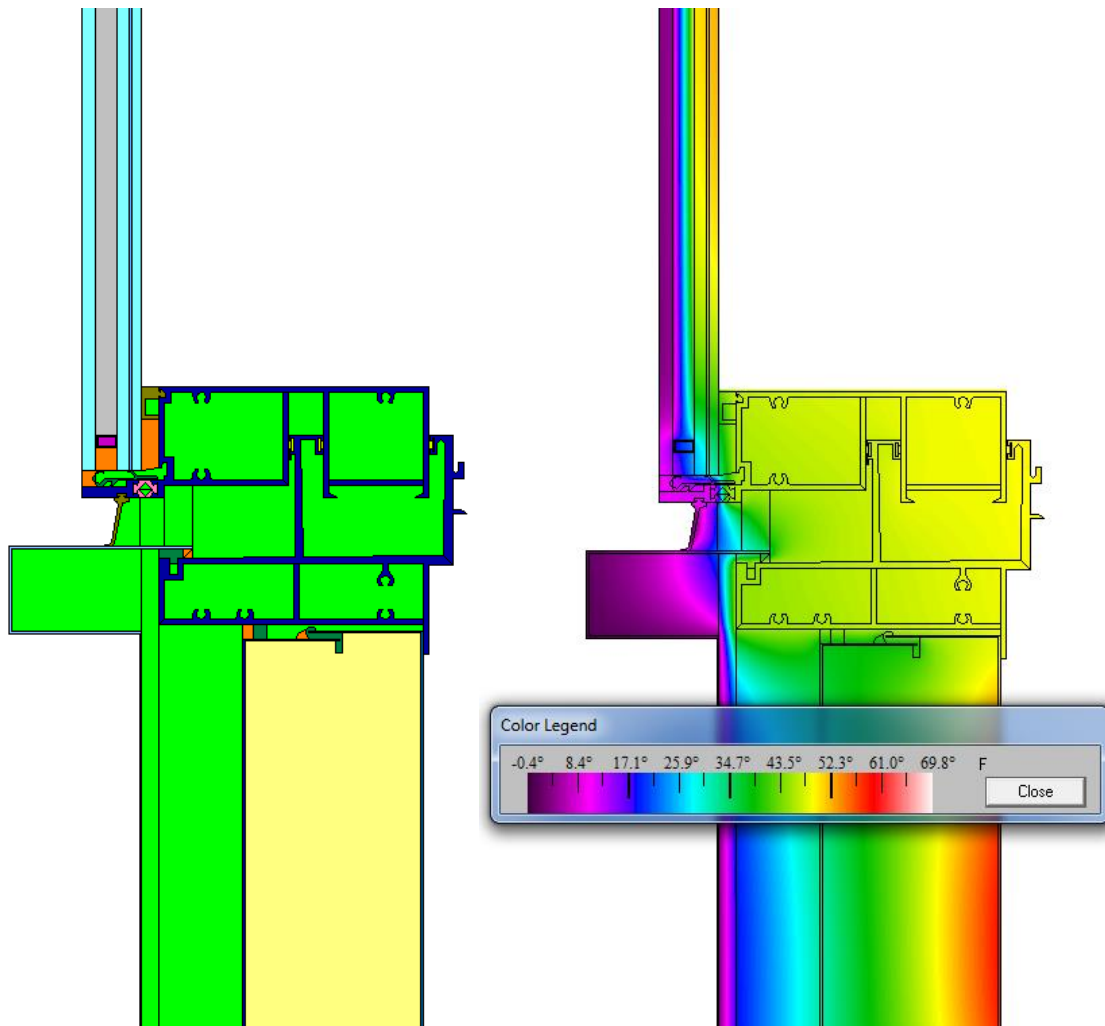


Figure 10: Stack Joint – Vision/Metal: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.94 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 5.50 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.32 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.27 \text{ Btu/h.ft}^2.\text{F}$



5.3.8 Stack Joint – Spandrel / Metal

In the following, the THERM model is presented graphically

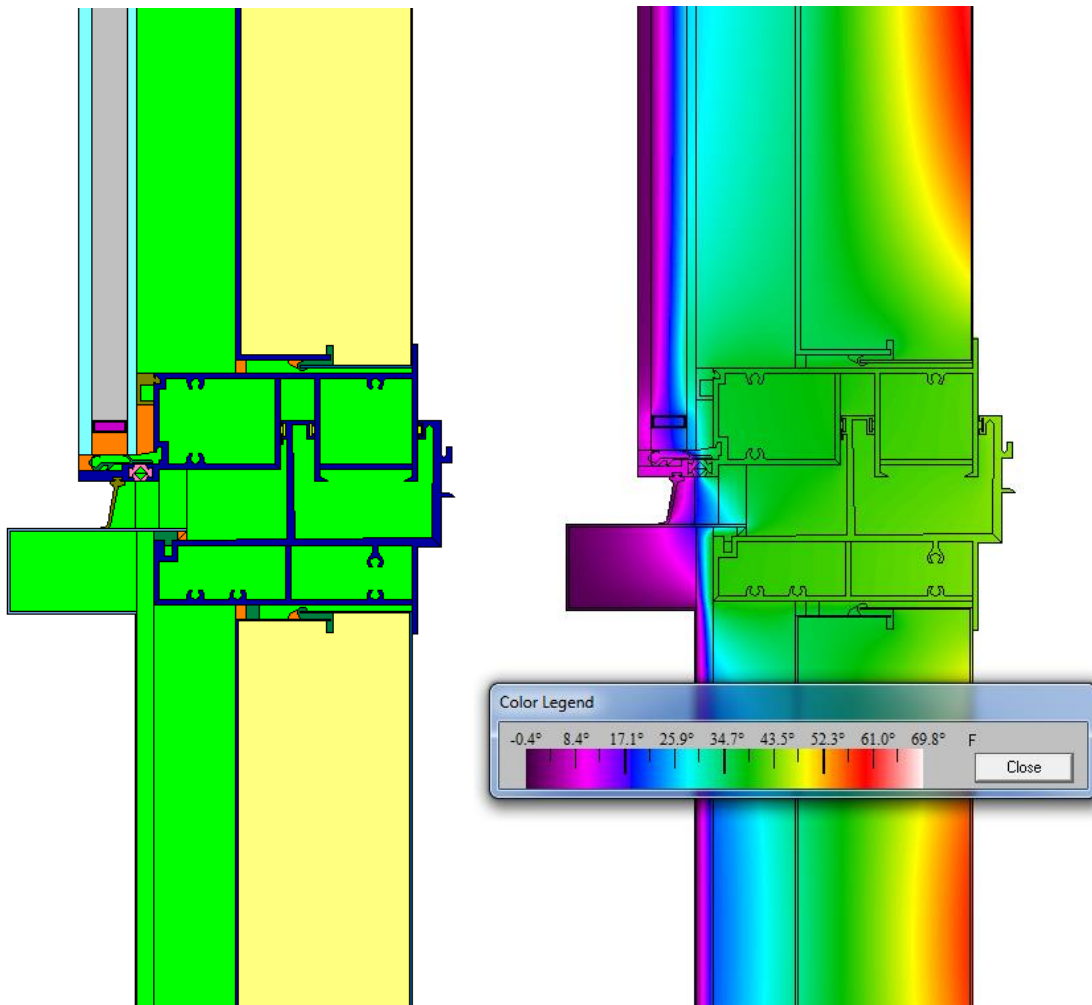


Figure 11: Stack Joint – Spandrel/Metal: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.63 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 5.50 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.34 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.33 \text{ Btu/h.ft}^2.\text{F}$



5.3.9 Transom – Metal / Vision

In the following, the THERM model is presented graphically

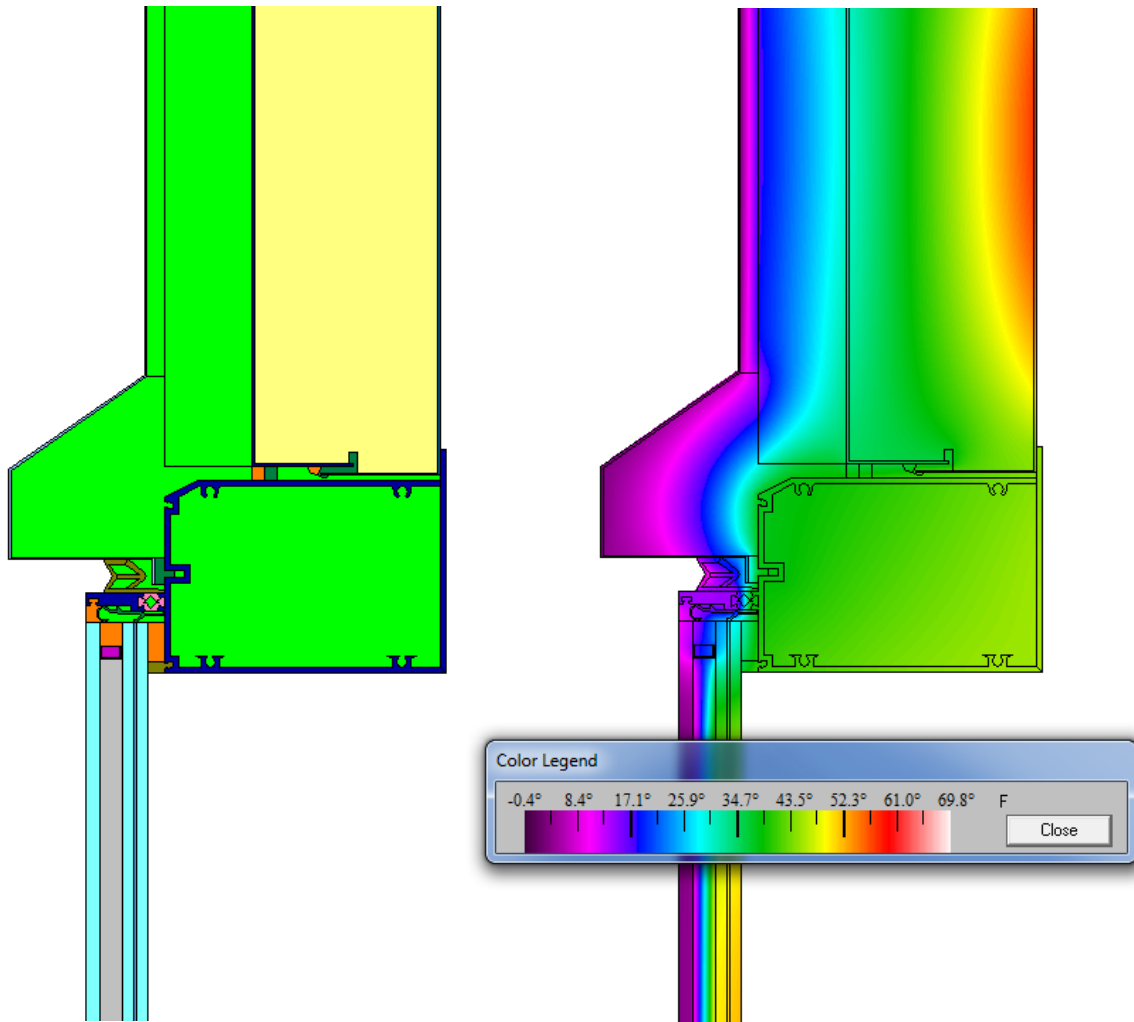


Figure 12: Transom – Metal/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.14 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.32 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.36 \text{ Btu/h.ft}^2.\text{F}$



5.3.10 Transom – Metal / Operable

In the following, the THERM model is presented graphically

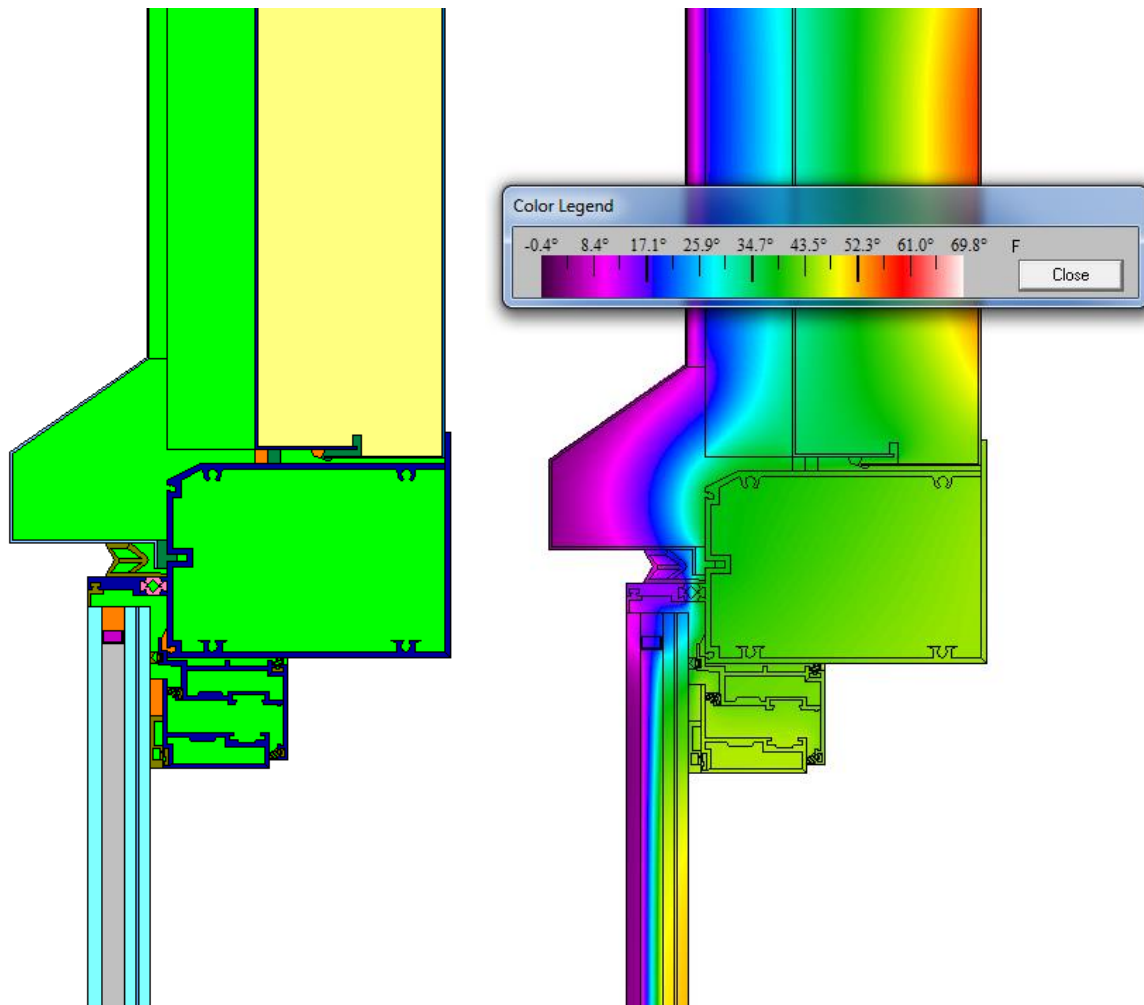


Figure 13: Transom – Metal/Operable: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.85 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.70 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.32 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.31 \text{ Btu/h.ft}^2.\text{F}$



5.3.11 Transom – Operable / Vision

In the following, the THERM model is presented graphically

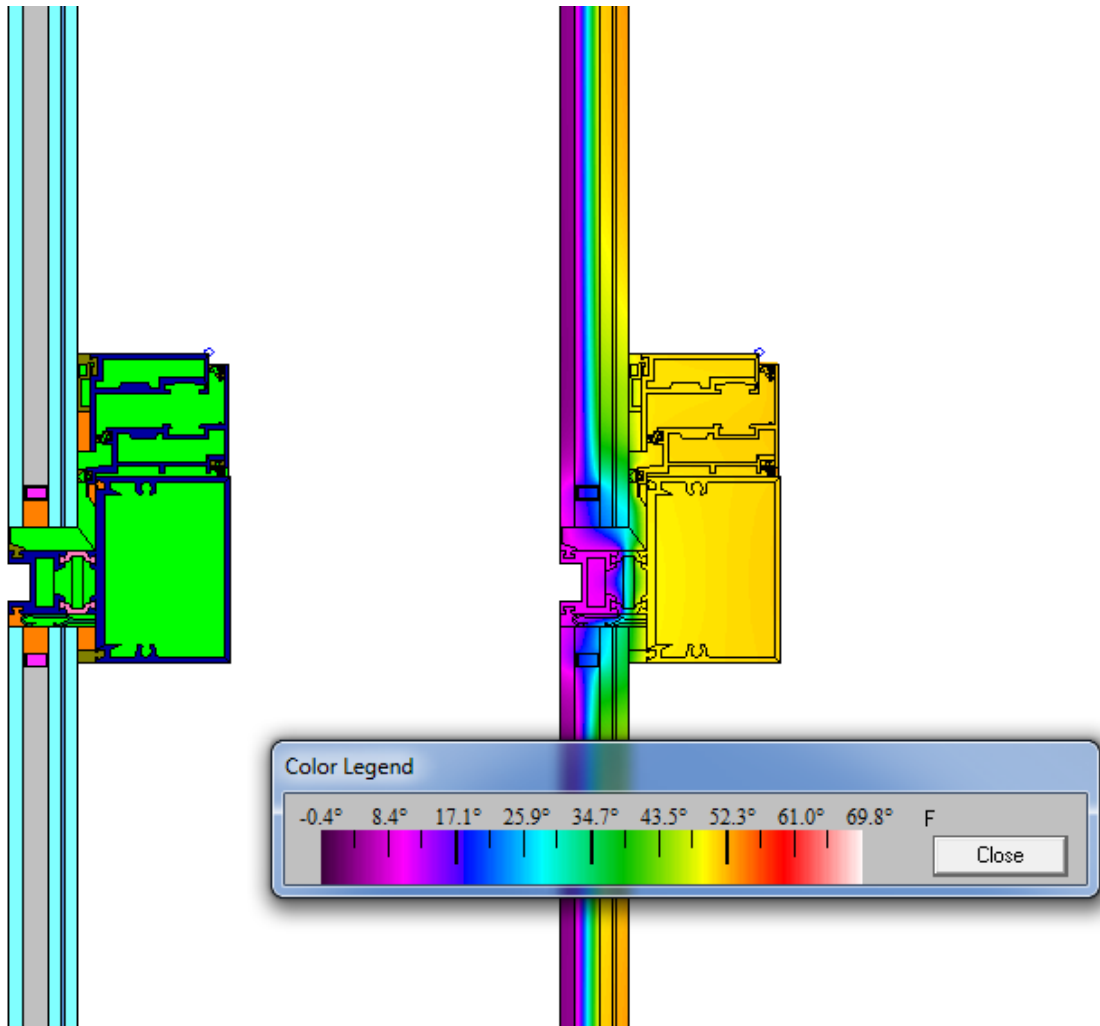


Figure 14: Transom – Operable/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.66 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.19 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.30 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.40 \text{ Btu/h.ft}^2.\text{F}$



5.3.12 Transom – Metal / Spandrel

In the following, the THERM model is presented graphically

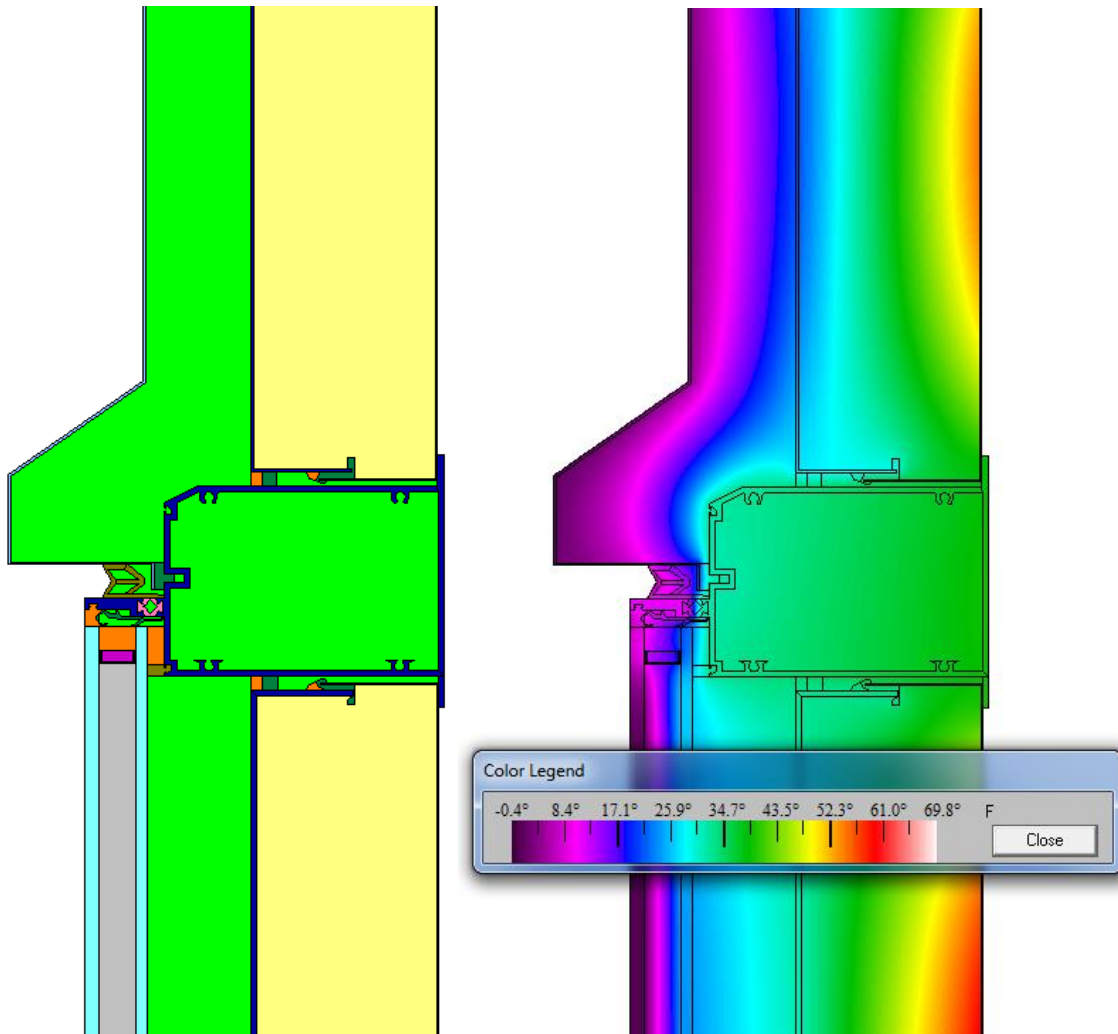


Figure 15: Transom – Metal/Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.61 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.40 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.39 \text{ Btu/h.ft}^2.\text{F}$



5.4 Overall U-Value

Area weighting of the U-values of all frames, glass and panels is used to calculate the overall U-value for each wall type.

Component	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Metal/Metal	0.15	92.60	0.64	0.10
Left Edge Effect	0.15	23.75	0.16	0.02
Right Edge Effect	0.15	23.75	0.16	0.02
Mullion - Vision/Vision	1.05	620.42	4.31	4.52
Left Edge Effect	0.35	311.88	2.17	0.76
Right Edge Effect	0.35	311.88	2.17	0.76
Intermediate Mullion - Vision/Operable	0.70	683.40	4.75	3.32
Left Edge Effect	0.35	225.75	1.57	0.55
Right Edge Effect	0.29	225.75	1.57	0.45
Intermediate Mullion - Vision/Vision	0.96	136.00	0.94	0.91
Left Edge Effect	0.35	52.03	0.36	0.13
Right Edge Effect	0.35	52.03	0.36	0.13
Mullion - Metal/Metal	0.15	92.60	0.64	0.10
Left Edge Effect	0.15	23.75	0.16	0.02
Right Edge Effect	0.15	23.75	0.16	0.02
Mullion 2 - Operable/Spandrel	0.75	714.00	4.96	3.72
Left Edge Effect	0.30	231.88	1.61	0.48
Right Edge Effect	0.19	231.88	1.61	0.31
Mullion 2 - Vision/Spandrel	0.98	148.16	1.03	1.01
Left Edge Effect	0.37	67.50	0.47	0.17
Right Edge Effect	0.19	67.50	0.47	0.09
Stack Joint - Vision/Metal	0.94	304.54	2.11	1.99
Top Edge Effect	0.32	125.93	0.87	0.28
Bottom Edge Effect	0.27	125.93	0.87	0.24
Transom - Metal/Vision	1.14	107.82	0.75	0.85
Top Edge Effect	0.32	50.93	0.35	0.11
Bottom Edge Effect	0.36	50.93	0.35	0.13
Transom - Metal/Operable	0.85	156.11	1.08	0.92
Top Edge Effect	0.32	45.75	0.32	0.10
Bottom Edge Effect	0.31	45.75	0.32	0.10
Transom - Operable/Vision	0.66	159.39	1.11	0.73
Top Edge Effect	0.30	51.88	0.36	0.11
Bottom Edge Effect	0.40	51.88	0.36	0.14



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Stack Joint - Spandrel/Metal	0.63	304.54	2.11	1.33
<i>Top Edge Effect</i>	0.34	125.93	0.87	0.30
<i>Bottom Edge Effect</i>	0.33	125.93	0.87	0.29
Transom - Metal/Spandrel	0.61	225.25	1.56	0.95
<i>Top Edge Effect</i>	0.40	120.00	0.83	0.33
<i>Bottom Edge Effect</i>	0.39	120.00	0.83	0.33
Vision Glass	0.28	4625.46	32.12	8.99
Spandrel Region	0.05	7195.87	49.97	2.50

Totals		18480.00	128.33	38.32
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Overall U-Value	0.30 Btu/h.ft².F]			
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Table 5: Thermal Transmittance of Wall Type B



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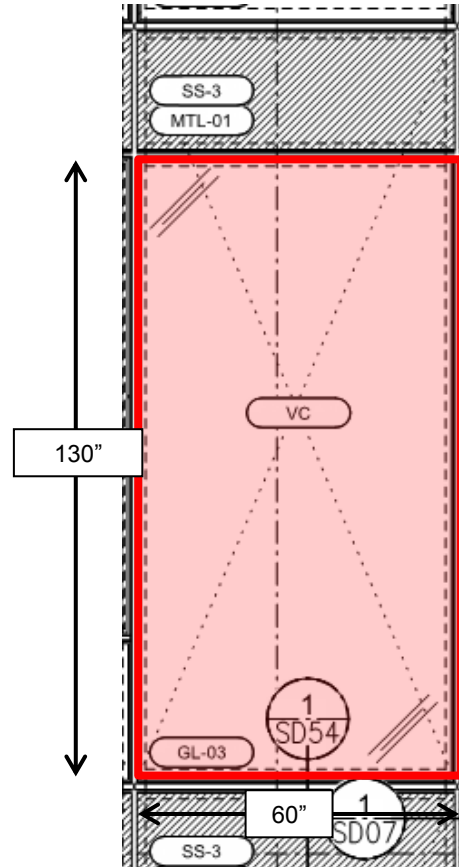


Figure 16: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Vision	1.05	601.90	4.18	4.39
Left Section	0.35	308.13	2.14	0.75
Right Section	0.35	308.13	2.14	0.75
Transom - Metal / Vision	1.17	235.32	1.63	1.91
Top Section	0.32	132.18	0.92	0.29
Bottom Section	0.36	132.18	0.92	0.33
Glass Vision	0.28	6082.18	42.24	11.83
Totals		7800	54	20.25

Vision U-Value 0.37 [Btu/h.ft².F]

Table 6: Wall Type B Vision U-Value



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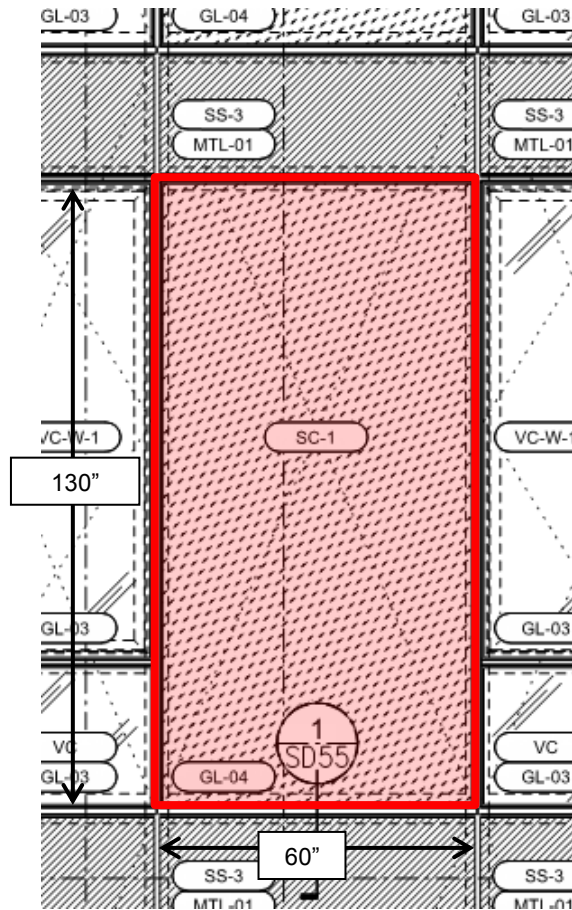


Figure 17: Typical Spandrel Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Spandrel	0.98	601.90	4.18	4.10
Left Section	0.37	308.13	2.14	0.79
Right Section	0.19	308.13	2.14	0.41
Transom - Metal / Spandrel	0.60	235.32	1.63	0.98
Top Section	0.39	132.18	0.92	0.36
Bottom Section	0.38	132.18	0.92	0.35
Spandrel Region	0.05	6082.18	42.24	2.11
Totals		7800	54	9.09
Overall U-Value	0.17 [Btu/h.ft ² .F]			

Table 7: Wall Type B Spandrel U-Value



6 CONDENSATION ASSESSMENT

The minimum internal surface temperature of the curtain wall has been assessed for each model using THERM 6.3 software using the specified Boundary Conditions. The absolute Minimum Temperature in the surface was found to be $t_{si,min}=40.7^{\circ}\text{F}$ on the Mullion 2 – Vision/Spandrel location of the façade (see following table).

Wall Type	Components	Dew Point Temperature ($^{\circ}\text{F}$)	Minimum Surface Temperature ($^{\circ}\text{F}$)	Maximum Allowed Relative Humidity (%)
Wall Type B	Mullion – Metal/Metal	39.1	50.9	54.3
	Mullion – Vision/Vision		41.6	38.2
	Intermediate Mullion – Vision/Operable		43.4	40.9
	Intermediate Mullion – Vision/Vision		43.1	40.4
	Mullion 2 – Operable/Spandrel		46.6	46.2
	Mullion 2 – Vision/Spandrel		40.7	36.9
	Stack Joint – Vision/Metal		43.5	41.1
	Stack Joint – Spandrel/Metal		43.0	40.3
	Transom – Metal/Vision		39.3	35.1
	Transom – Metal/Operable		43.5	41.1
	Transom – Operable/Vision		39.3	35.1
	Transom – Metal/Spandrel		40.0	35.9

Table 8: Condensation Assessment for Typical Details

With internal temperature of 68°F and Relative Humidity of 35% RH the Dew Point Temperature is 39.1°F . For the given Boundary Conditions, condensation will not occur on the interior surface of the façade and the performance is acceptable. Following THERM models of some critical sections are presented along with the Dew Point Isothermal Line as well as a temperature distribution for the specified Boundary Conditions.

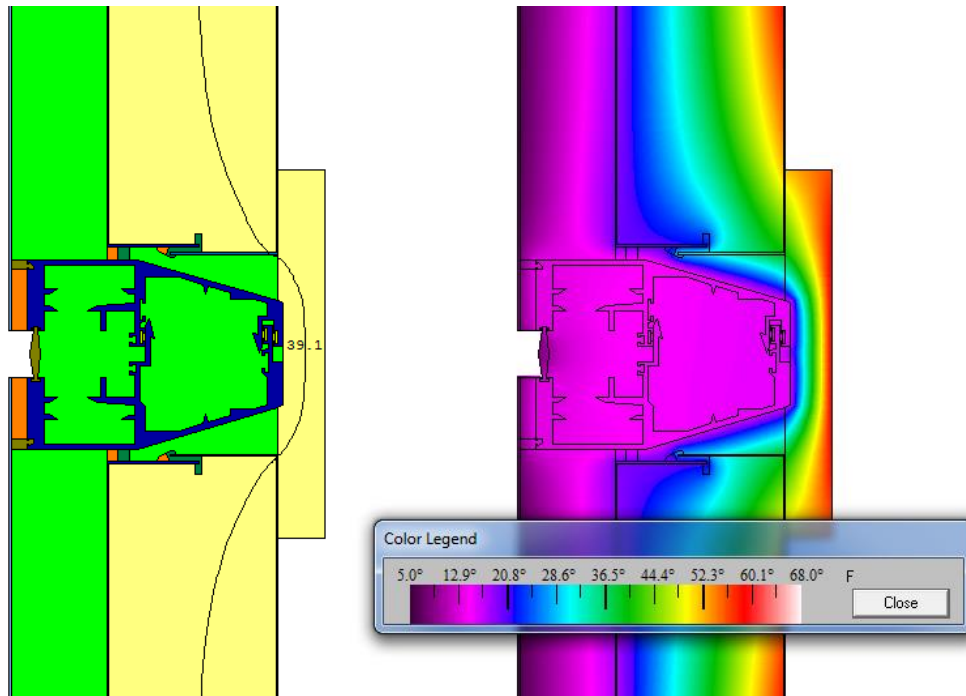


Figure 18: Mullion – Metal/Metal: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

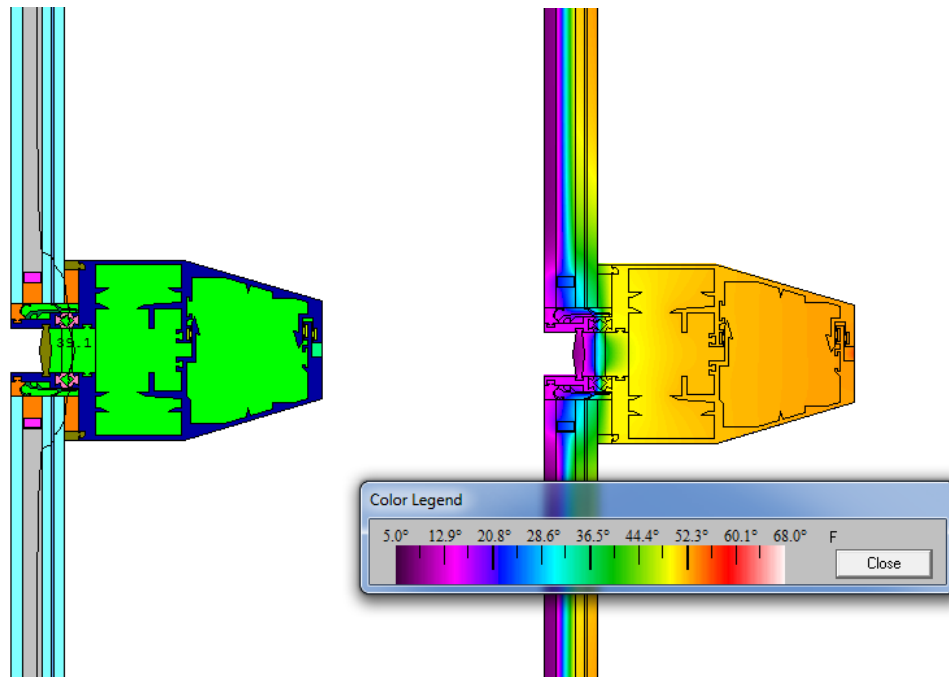


Figure 19: Mullion – Vision/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

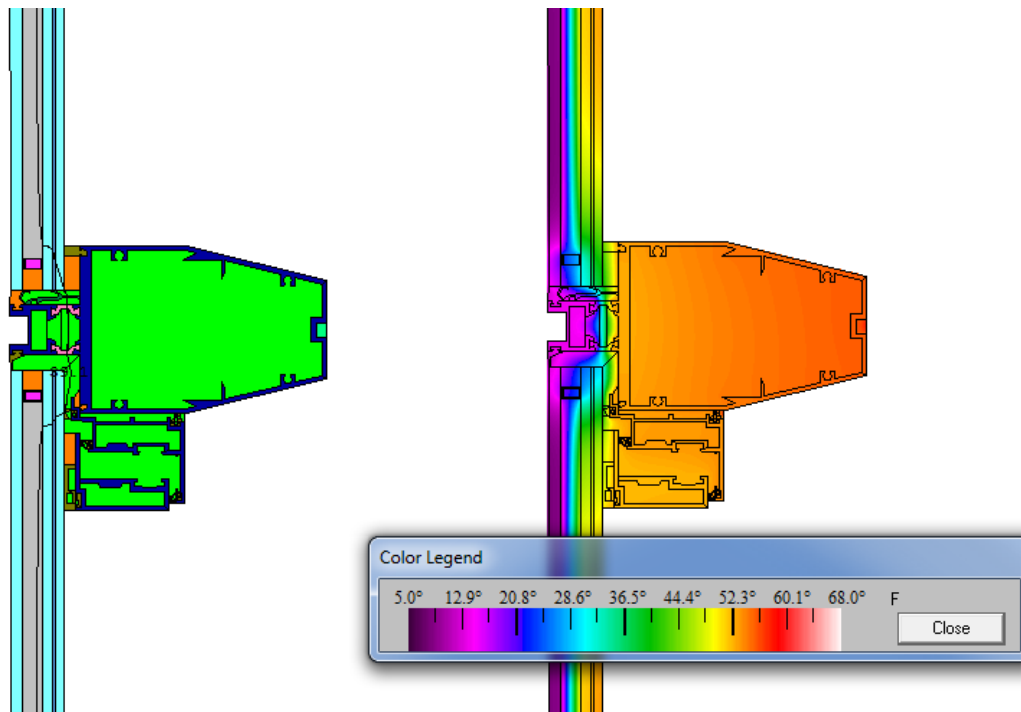


Figure 20: Intermediate Mullion – Vision/Operable: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

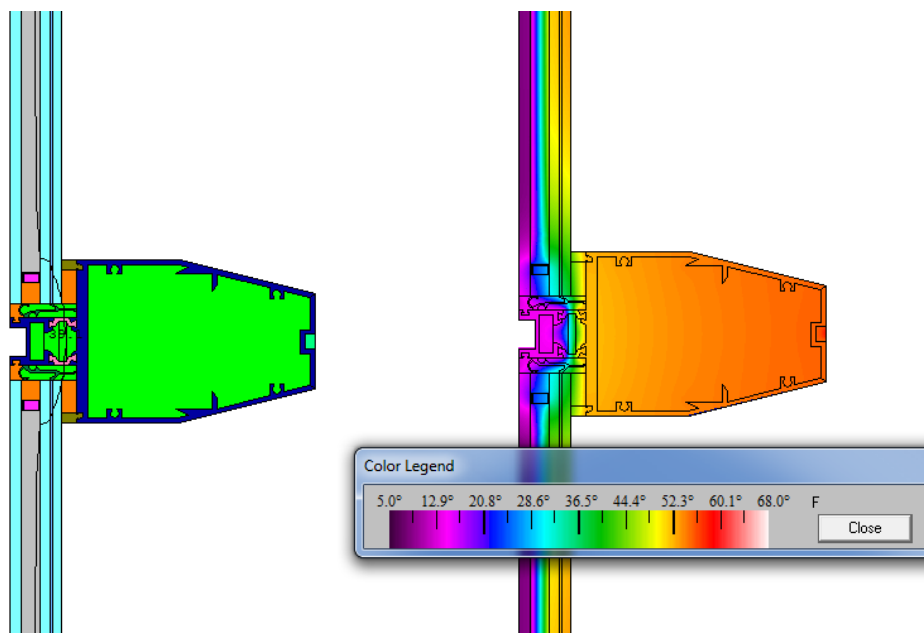


Figure 21: Intermediate Mullion – Vision/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

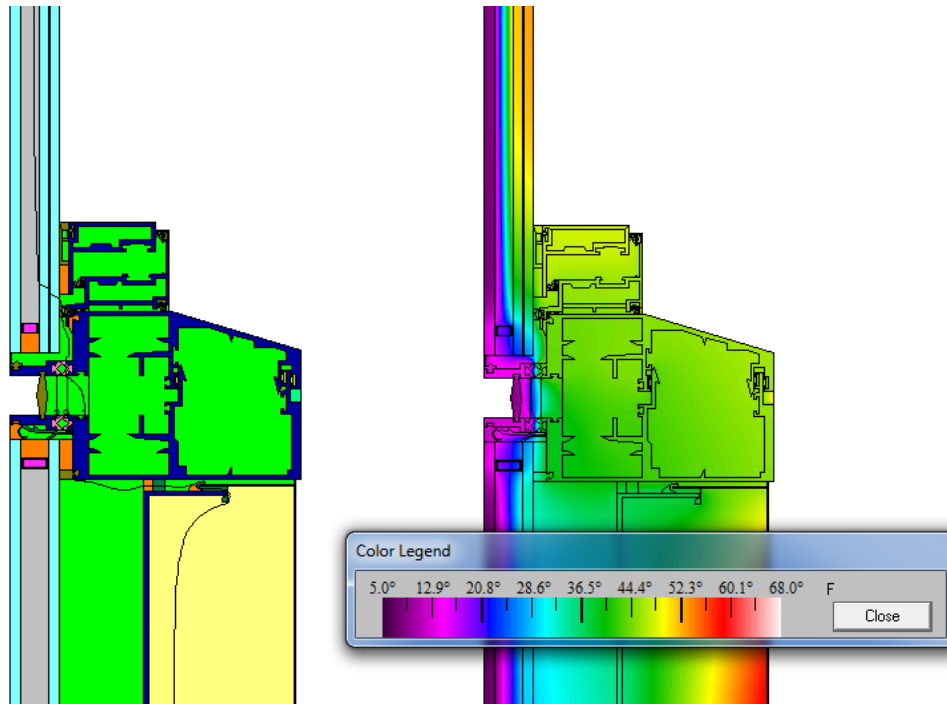


Figure 22: Mullion 2 – Operable/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

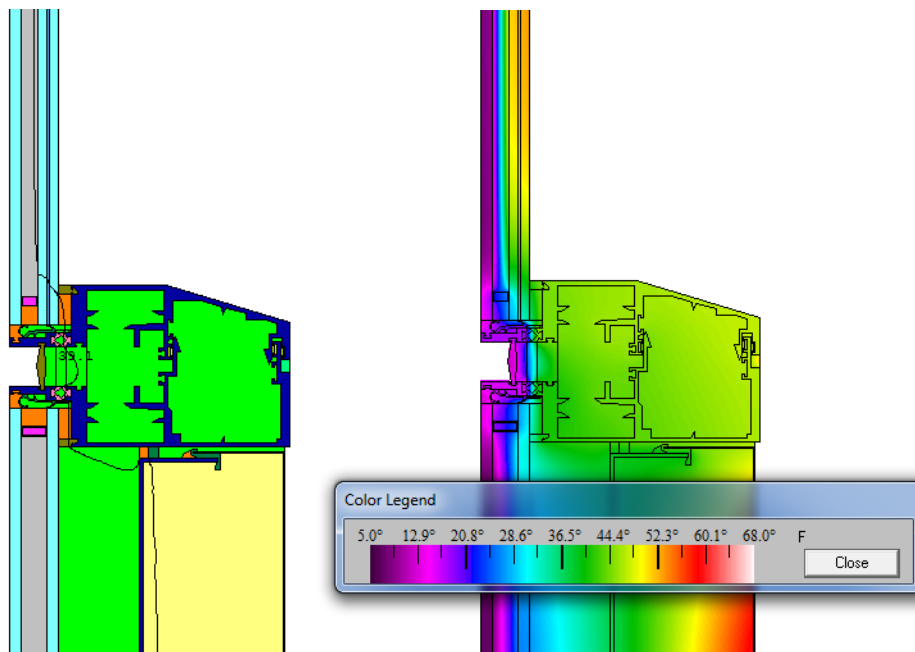


Figure 23: Mullion 2 – Vision/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

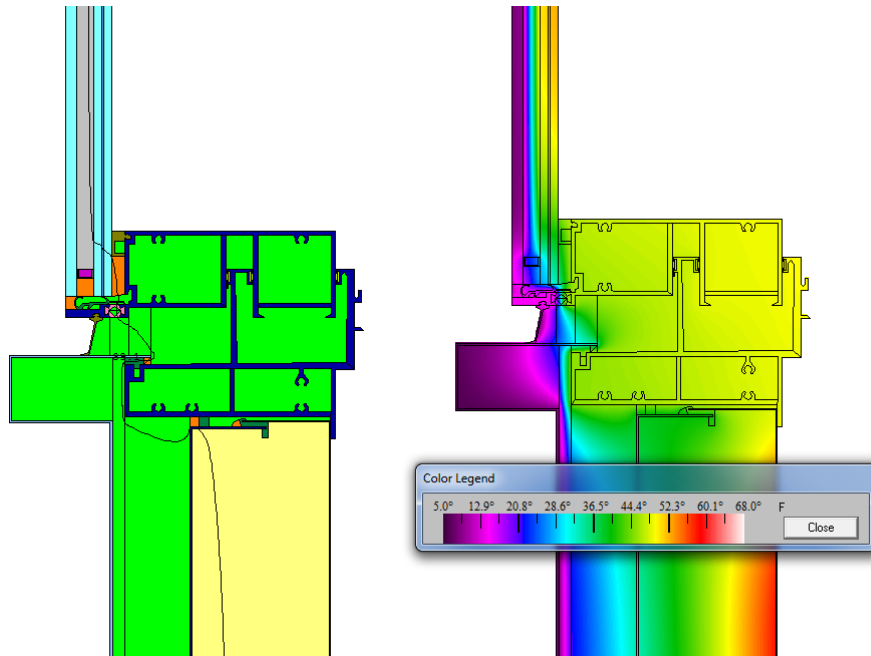


Figure 24: Stack Joint – Vision/Metal: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

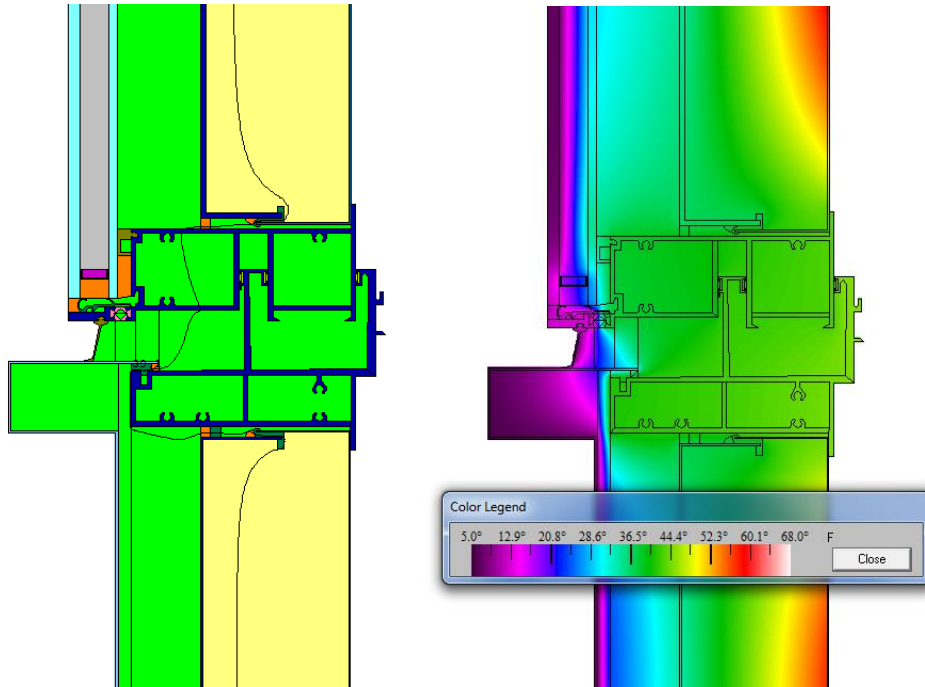


Figure 25: Stack Joint – Spandrel/Metal: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

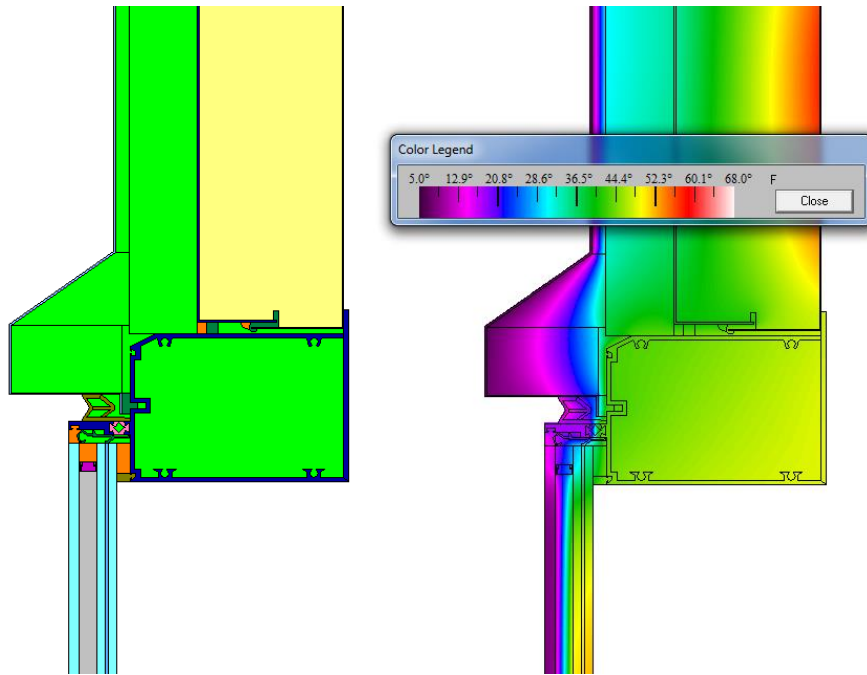


Figure 26: Transom – Metal/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

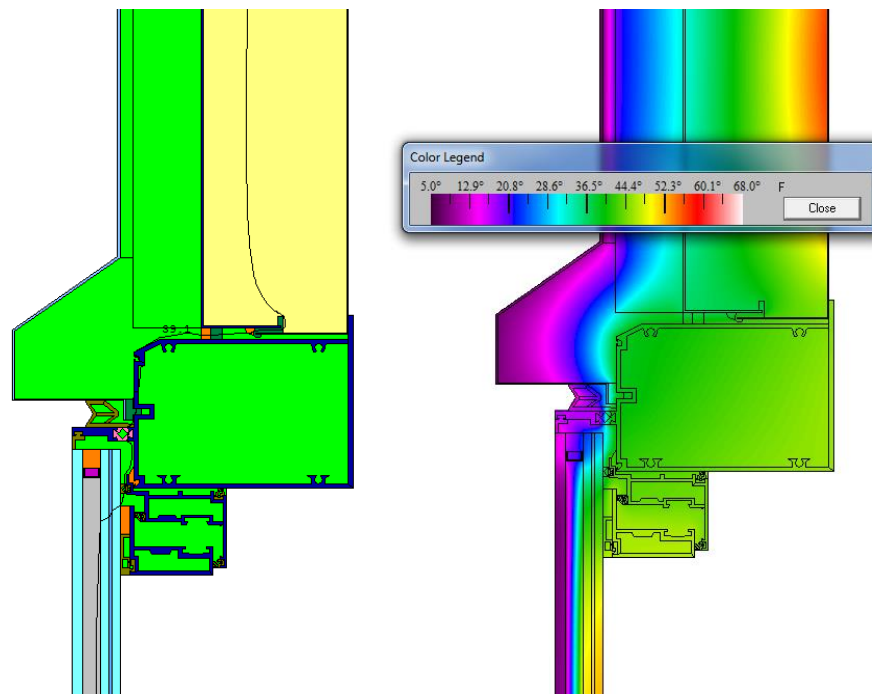


Figure 27: Transom – Metal/Operable: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

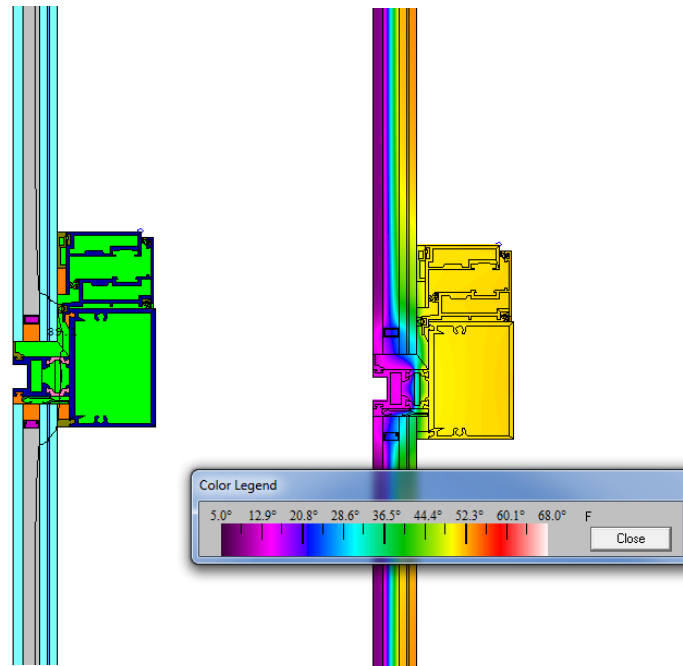


Figure 28: Transom – Operable/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

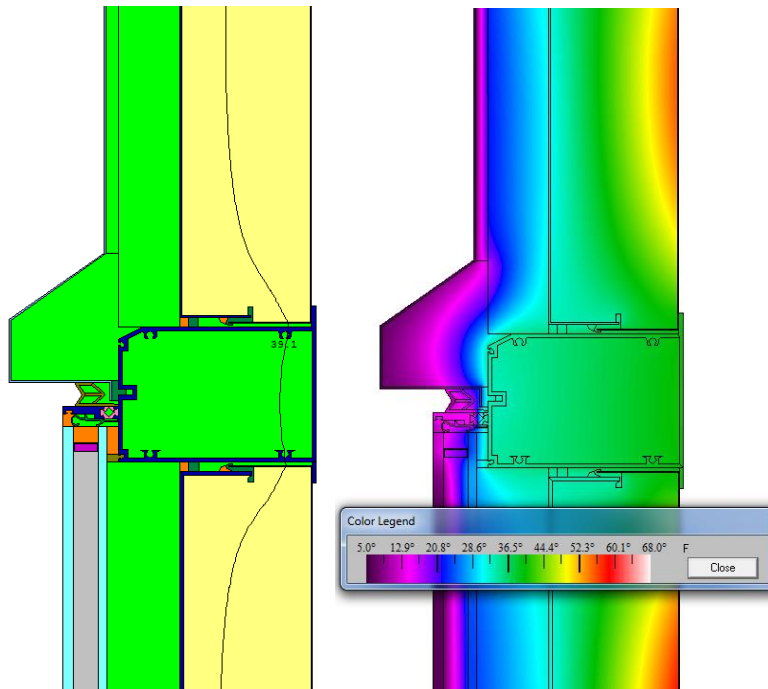


Figure 29: Transom – Metal/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)



7 REFERENCES

ASHRAE	ASHRAE Handbook of Fundamentals 1998-2001, American Society of Heating, Refrigerating, and Air-Conditioning Engineering, Atlanta, GA, USA, 2004.
ISO 6946: 2007	Building components and building elements - Thermal resistance and thermal transmittance - Calculation method
ISO 10077-1: 2006	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 1: General
ISO 10077-2: 2003	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames
ISO 10211: 2007	Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations
ISO 13788:2001	Hydrothermal performance of building components and building elements - Internal surface temperature to avoid critical surface humidity and interstitial condensation - Calculation methods
ISO 15099: 2003	Thermal performance of windows, doors and shading devices - Detailed calculations
NFRC 100: 2010	Procedure for Determining Fenestration Product U-Factors.
NFRC 200: 2010	Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
NFRC 300: 2010	Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems
THERM	THERM 6.3 Program description. Windows and Daylighting Group. Lawrence Berkeley National Laboratory, 2002.



PERMASTEELISA NORTH AMERICA

217 WEST 57TH STREET

PROJECT 865

NEW YORK, NY



EXTERIOR WALL PACKAGE

SYSTEM DESIGN - THERMAL CALCULATIONS (WALL TYPE E)

DOC NAME: 90918 TC 003-02-150813 JH

EXTELL DEVELOPMENT COMPANY

ADRIAN SMITH & GORDON GILL

AJLP CONSULTING

LEND LEASE

Rev.	Date	Description	Prepared by	Checked by
02	08/13/2015	Third Submission	JH	JH
01	05/07/2015	Second Submission	JH	AF
00	03/09/2015	First Submission	JH	AF





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1 SUMMARY

THERM 6.3 software was used to analyze the two-dimensional heat transfer through the frame and glazing edge areas. The frame U-values have been derived using THERM 6.3 according to NFRC standard.

Main results are reported in the following:

Wall Type		U - Factor BTU/(h·ft ² ·°F)	Overall U - Factor BTU/(h·ft ² ·°F)	SHGC (Dimensionless)	Condensation Resistance (%)
WT-E	WT-E Vision	0.38	0.25	0.28	35.1
	WT-E Opaque	0.13			

Table 1: Summary of Results



2 THERM KEY

Material	Thermal Conductivity (Btu/h.ft ² .F)	Model Color
* Bracket Thermal Conductivity (WTC)	24.04	
Aluminum Alloy (Painted)	92.45	
Butyl Rubber	0.14	
Ethylene Propylene Diene Monomer (EPDM)	0.14	
Frame Cavity NFRC	Calculated by THERM	
Frame Cavity Slightly Ventilated	Calculated by THERM	
Glass (Plate or Float)	0.58	
IGU Gap Cavity	0.02	
Insulation	0.02	
Neoprene (Polychloroprene)	0.13	
PVC	0.10	
Polyamide 6.6 with 25% Glass Fiber	0.17	
Polyurethane Foam	0.03	
Silica Gel (Desiccant)	0.08	
Silicone Gasket	0.20	
Silicone Sealant	0.20	
Steel – Galvanized Sheet (0.14%C)	35.82	
Steel – Stainless (Buffed)	9.82	
Zinc	65.29	

Table 2: THERM Material Color Key

* Given a thermal conductivity of 0.024 W/m.K for air and 160.00 W/m.K for aluminum, an average thermal conductivity can be calculated for the setting block based on an area weighted method. The calculation can be seen below.

$$\left(26\% * 160 \frac{W}{m.K}\right) + \left(74\% * 0.024 \frac{W}{m.K}\right) = 41.62 \frac{W}{m.K}$$



3 BOUNDARY CONDITIONS

Calculation	Standard	Cold-Side Environmental Temperature	Warm-Side Environmental Temperature	External Wind Speed	External Heat Transfer Coefficient	Internal Relative Humidity	Internal Heat Transfer Coefficient
Thermal Transmittance	NFRC (100-2010)	-0.4°F	69.8°F	12.3mph	4.58 Btu/h-ft²-F	----	0.53 Btu/h-ft²-F
Condensation Assessment	Project Specification (06/02/14)	5.0°F	68.0°F	15.0mph	5.43 Btu/hft²-F	35%	0.53 Btu/h-ft²-F

Table 3: Boundary Conditions



4 GENERAL DESCRIPTION

This report must be read in conjunction with PermaSteelisa's system drawings dated August 20th. The thermal performance of the typical façade type is stated in the following report. The overall U-value, as well as Condensation Assessment of the curtain wall panels have been performed according to the (NFRC), (ASHRAE) and (ISO) Standards.

Typical elevation and sections are shown in the following figure.

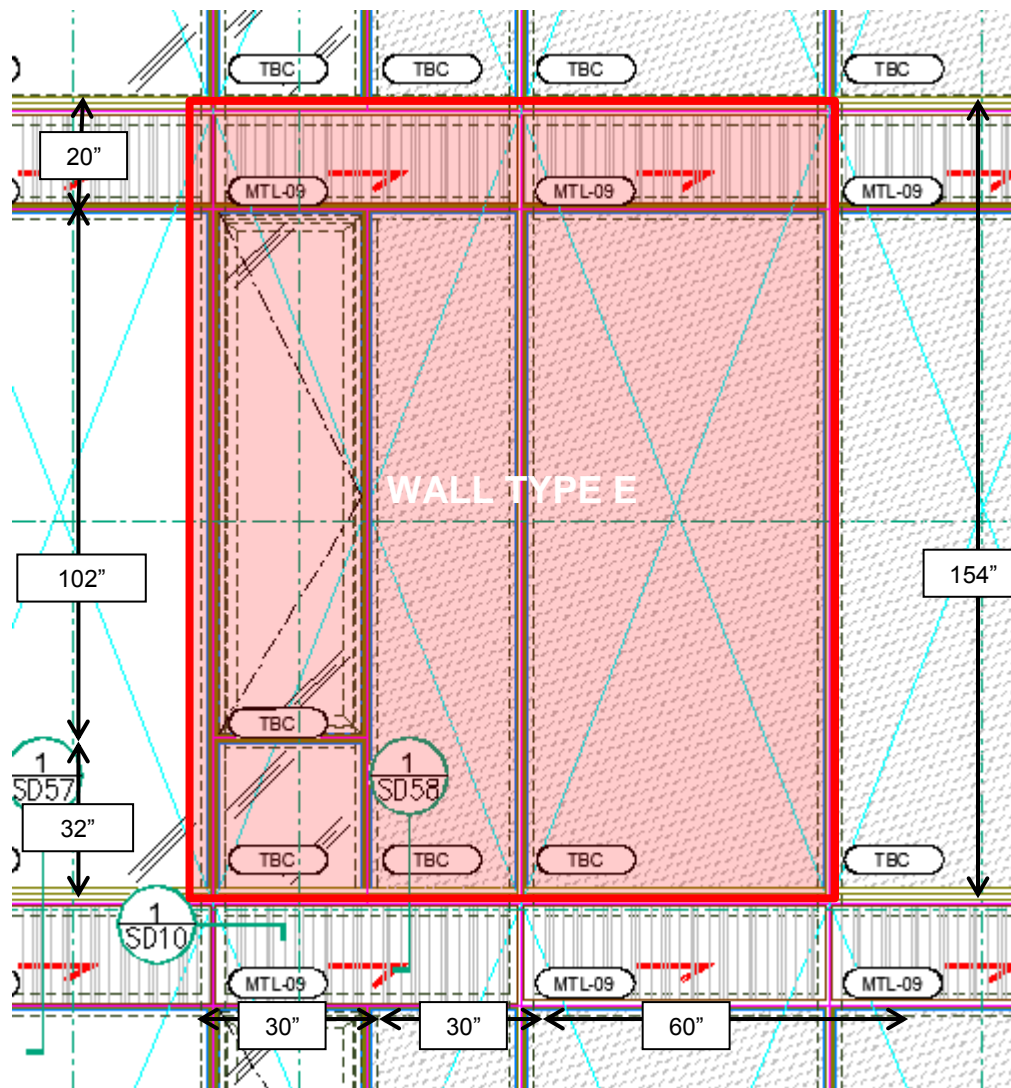


Figure 1: Wall Type E (SE03)



5 THERMAL TRANSMITTANCE

5.1 Thermal Transmittance Calculation Method

The heat transfer through the frame and glazing is assessed as described in the thermal guide (NFRC) and (ISO15099).

There are then the following thermal transmittances (U-values):

- Centre-glazing U-value U_g , which is assumed to apply to the whole of the glazing (defined in section 5.2.1);
- Centre-panel U-value U_{sp} , which is assumed to apply to the whole of the spandrel panel (defined in section 5.2.2);
- Frame U-value U_f (defined in section 5.3);
- Edge U-value U_{edge1} , U_{edge2} , to take into account the heat transfer due to the interaction (edge effect) between the framing and glazing/spandrel panel (defined in section 5.3).

The overall U-value of the curtain wall is then calculated by using the principle of the area weighting of U-values of the frames and glass (as explained in section 5.4).

5.2 Center U-Value

One-dimensional center U-value calculation has been performed for glass and spandrel.

5.2.1 Glazing

The calculations have been performed with the following glass for the typical elevation. (Calculated with Window 6.3 Software according to NFRC):

Glass Makeup:

Outer-lite:	5/16" IPASOL PLATIN 46/31 on Surface # 2 (Interpane)
Cavity:	1/2" Air with Stainless Steel Spacers
Inner-lite:	1/4" – 0.060" – 1/4" Laminate



PERMASTEELISA NORTH AMERICA

Glazing System Library

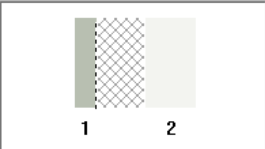
ID #: 62 Name: Hardrock Spec Glass

Layers: 2 Tilt: 90 °

Environmental Conditions: NFRC 100-2010

Comment:

Overall thickness: 1.263 inches Mode: ?



	ID	Name	Mode	Thick	Flip	Tsol	Rsol1	Rsol2	Tvis	Rvis1	Rvis2	Tir	E1	E2	Cond	Comment
▼ Glass 1 ▶▶	7119	ip4729plipe	#	0.236	<input type="checkbox"/>	0.274	0.429	0.538	0.506	0.380	0.259	0.000	0.840	0.037	0.578	
Gap 1 ▶▶	1	Air		0.500	<input type="checkbox"/>											
▼ Glass 2 ▶▶	30813	6mm-6mm Laminate.usr		0.527	<input type="checkbox"/>	0.809	0.077	0.077	0.901	0.082	0.082	0.000	0.837	0.837	0.418	

Center of Glass Results | Temperature Data | Optical Data | Angular Data | Color Properties

Ufactor	SC	SHGC	Rel. Ht. Gain	Tvis	Keff
Btu/h-ft ² -F			Btu/h-ft ²		Btu/h-ft-F
0.284	0.323	0.281	68.3	0.466	0.0174

Figure 2: WINDOW 6 Model

Standard	Glass Characteristics	Value
NFRC 100 -2010	Thermal Transmittance (Btu/h.ft ² .F)	0.28
NFRC 200 – 2010	Solar Heat Gain Coefficient	0.28

Table 4: 1 Dimensional Analysis Summary



5.2.2 Spandrel Panel (Wall Type E)

In the following, the THERM model is presented graphically

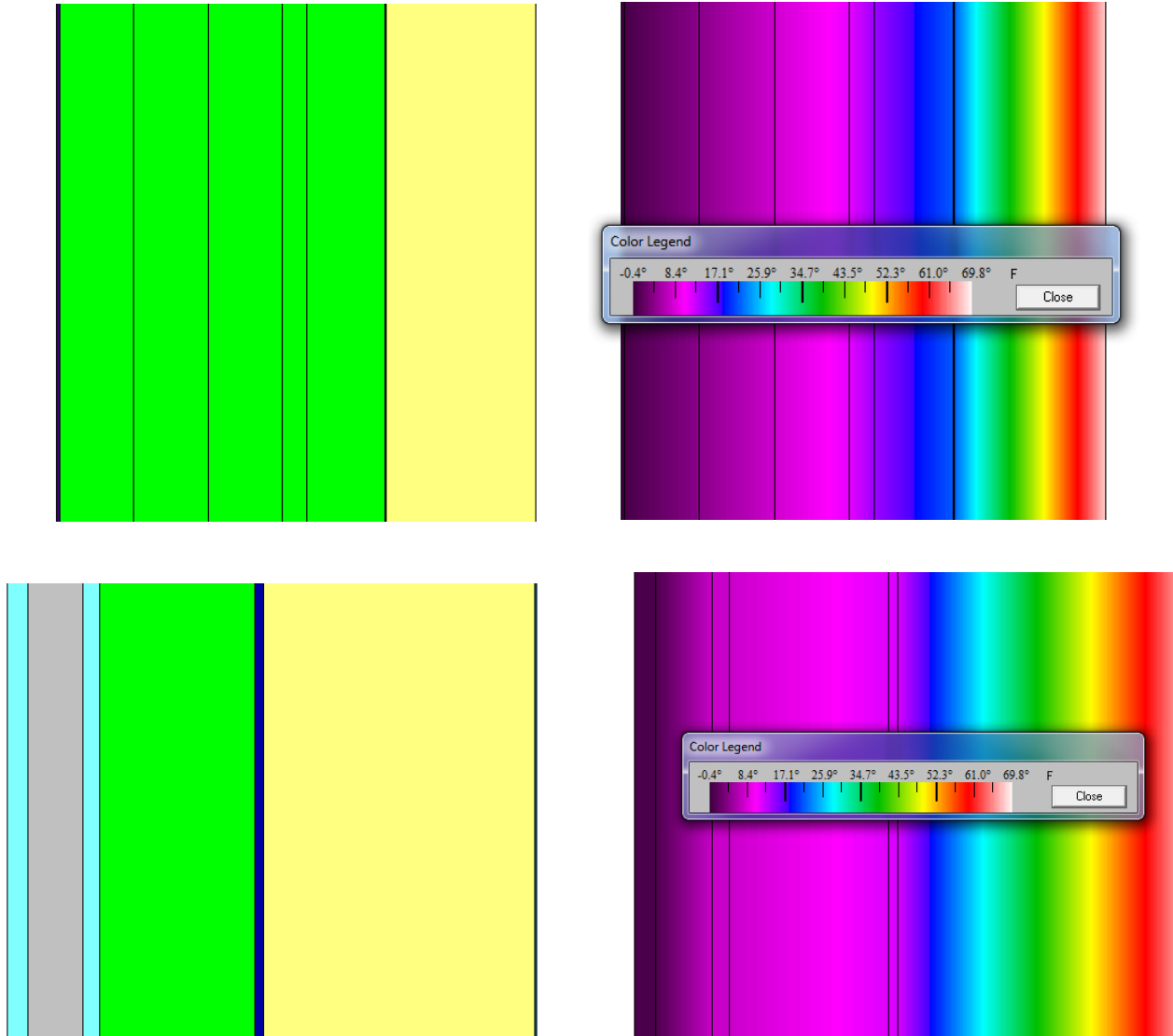


Figure 3: Spandrel Panels: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Thermal Transmittance (Top)	$U_{sp} = 0.04 \text{ Btu/h.ft}^2.\text{F}$
Thermal Transmittance (Bottom)	$U_{sp} = 0.04 \text{ Btu/h.ft}^2.\text{F}$



5.3 Wall Type E Frame U-Value

The frames have been modeled by means of 2-dimensional FEM analysis, using the THERM program (version 6.3) by the Lawrence Berkeley National Laboratory. Material properties have been assigned as per THERM internal library.

The frame has been modeled including stainless steel glazing spacers.

The projected width of the solid part of the framing (excluding the glazing gaskets) is measured from the inside. For each of the models, the projected width of the frames is stated along with the frame U-value.

5.3.1 Mullion – Metal / Metal

In the following, the THERM model is presented graphically

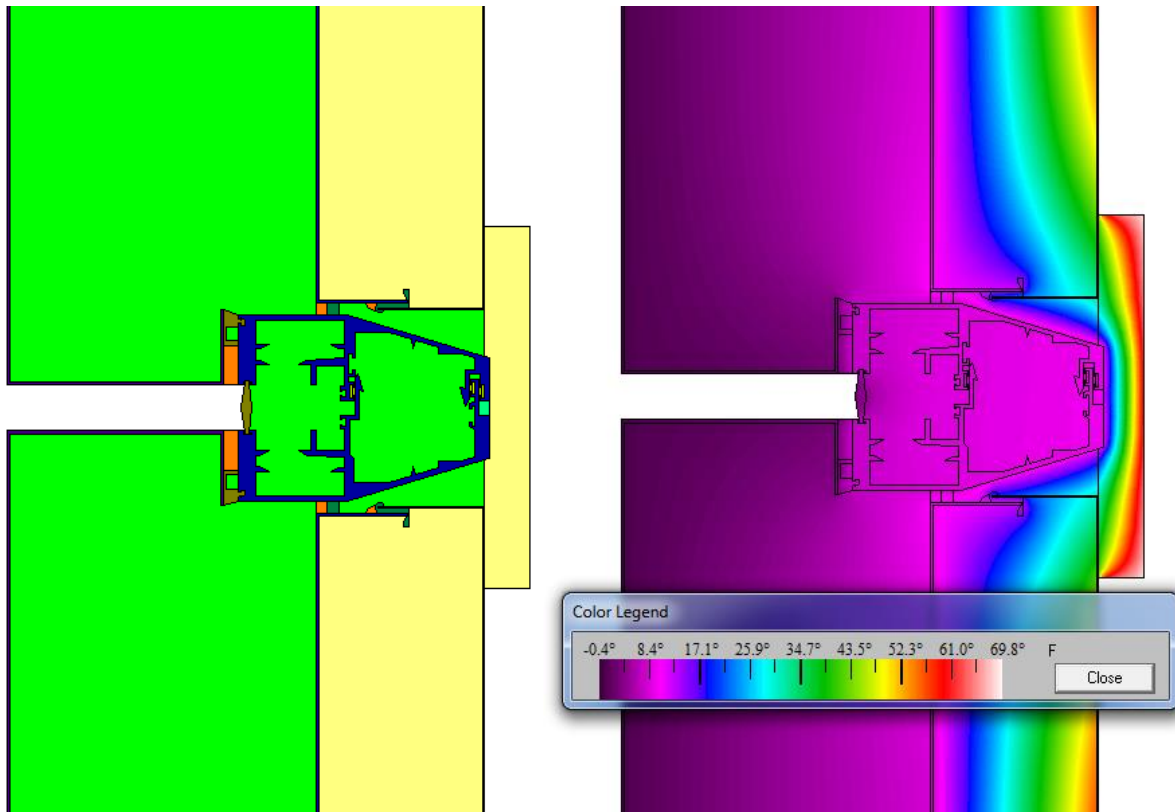


Figure 4: Mullion – Metal / Metal: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.15 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.15 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.15 \text{ Btu/h.ft}^2.\text{F}$



5.3.2 Mullion – Vision / Operable

In the following, the THERM model is presented graphically

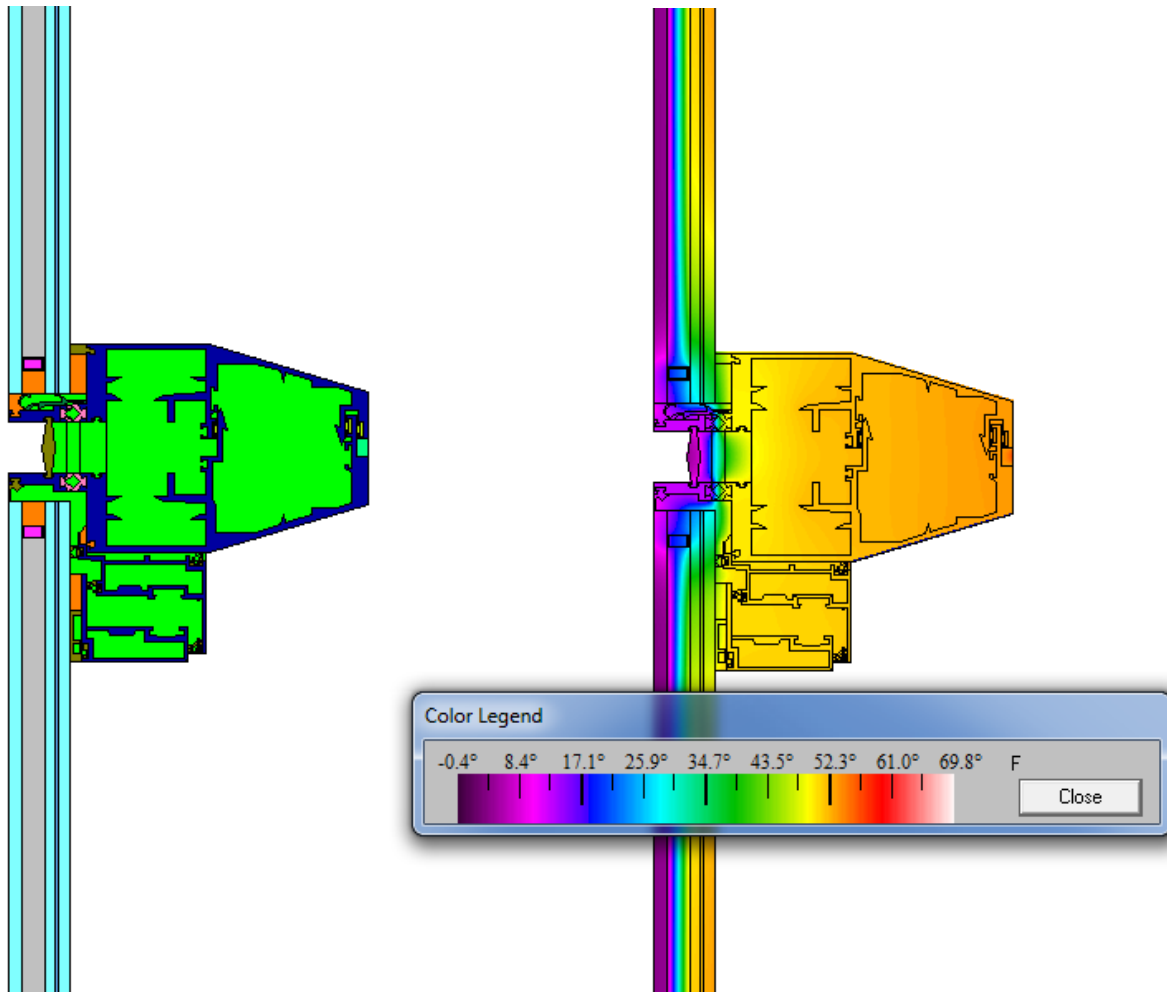


Figure 5: Mullion – Vision / Operable: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.80 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 7.00 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.35 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.29 \text{ Btu/h.ft}^2.\text{F}$



5.3.3 Mullion – Vision / Vision

In the following, the THERM model is presented graphically

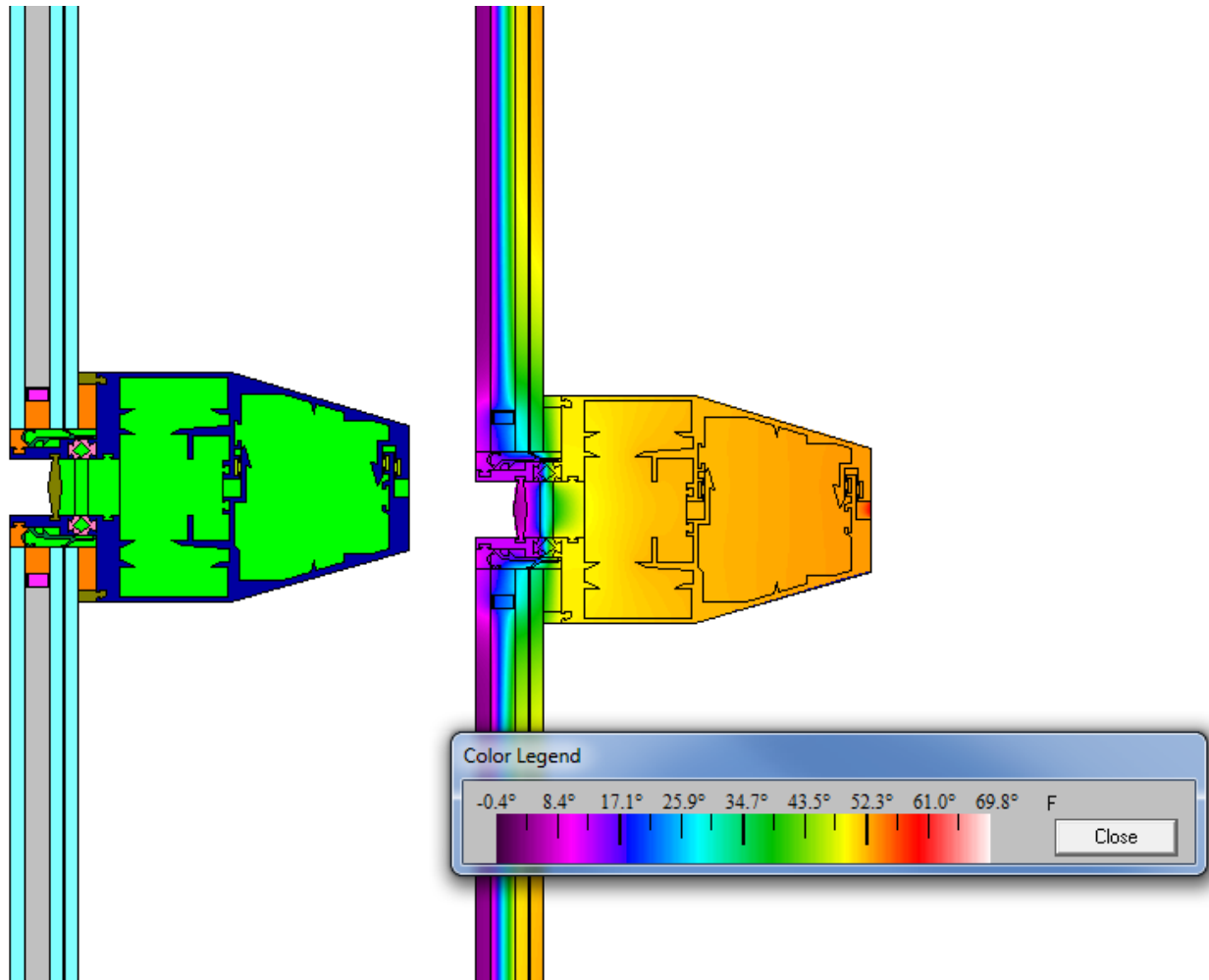


Figure 6: Mullion – Vision/Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.05 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.35 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.35 \text{ Btu/h.ft}^2.\text{F}$



5.3.4 Mullion – Operable / Spandrel

In the following, the THERM model is presented graphically

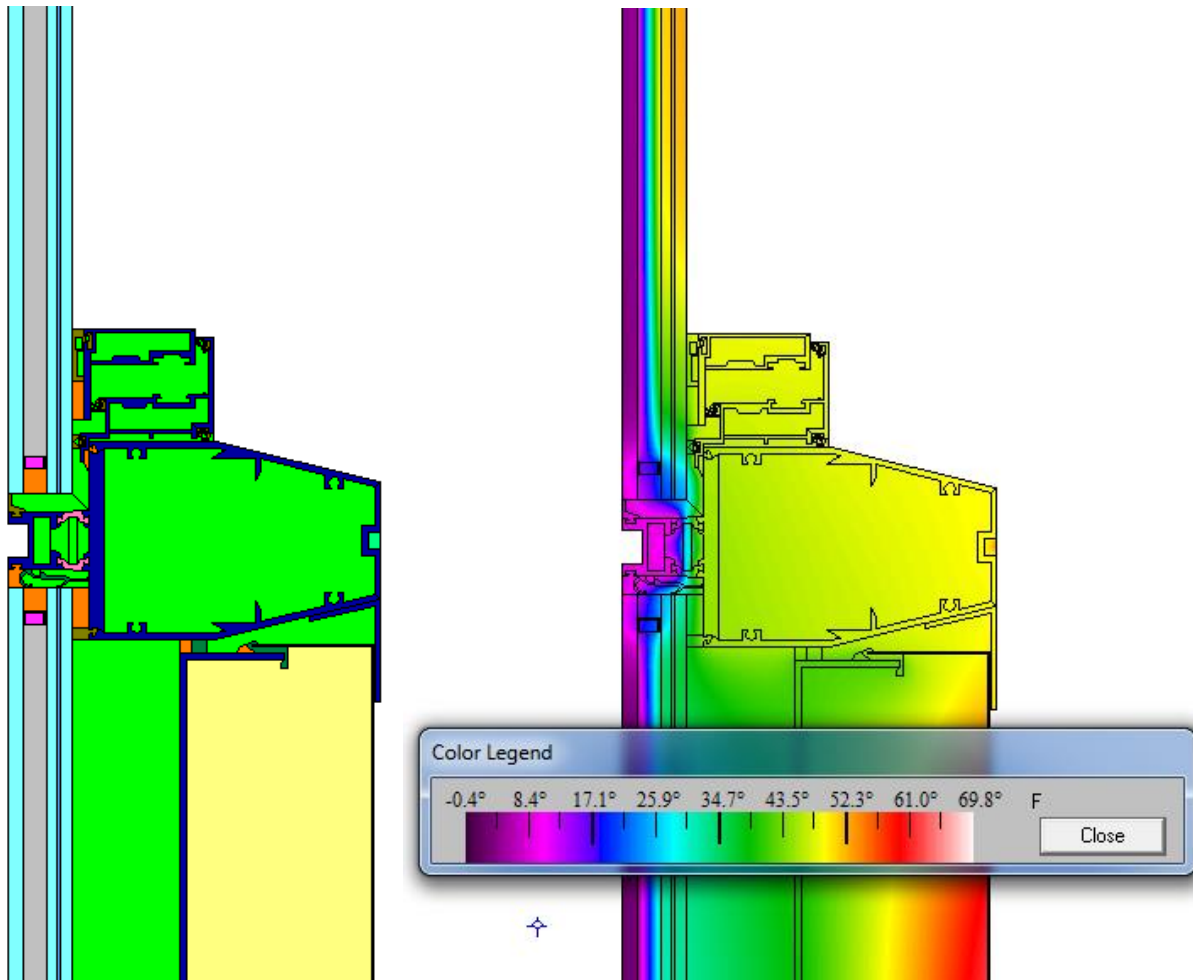


Figure 7: Mullion – Operable / Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.69 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.70 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.30 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.29 \text{ Btu/h.ft}^2.\text{F}$



5.3.5 Mullion – Vision / Spandrel

In the following, the THERM model is presented graphically

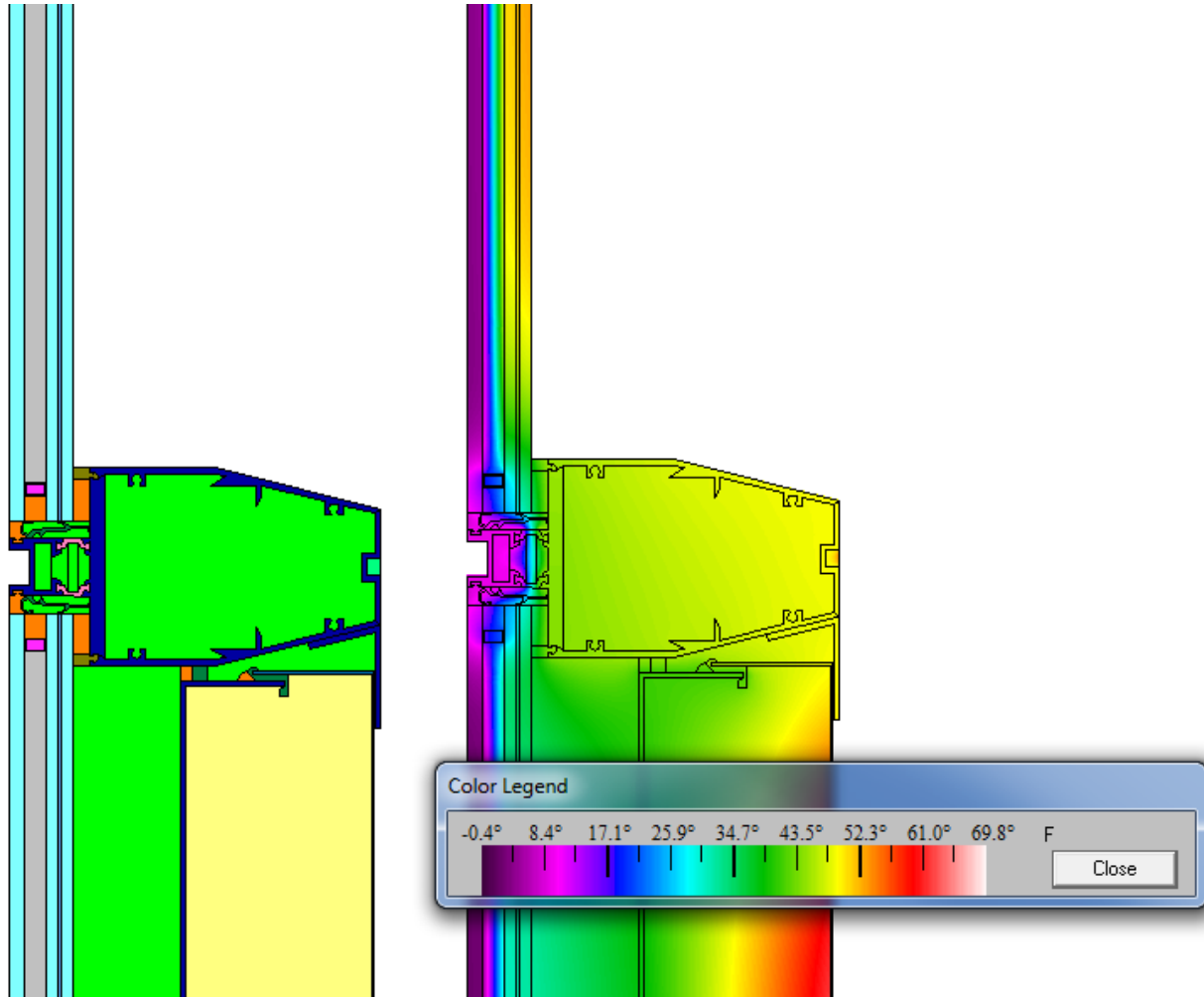


Figure 8: Mullion – Vision / Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.92 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.36 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.32 \text{ Btu/h.ft}^2.\text{F}$



5.3.6 Mullion – Spandrel / Spandrel

In the following, the THERM model is presented graphically

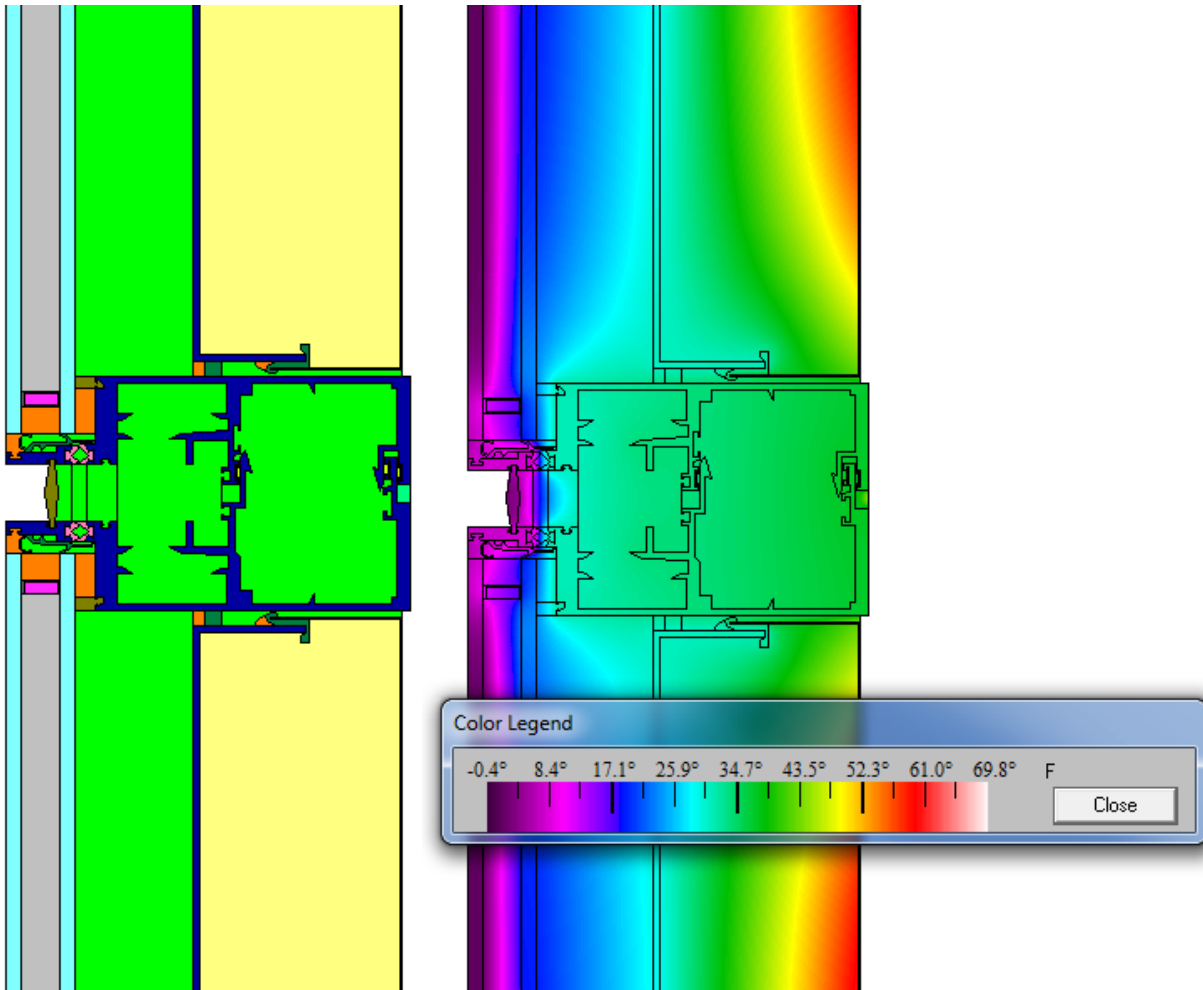


Figure 9: Mullion – Spandrel / Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.63 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.63 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.24 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.24 \text{ Btu/h.ft}^2.\text{F}$



5.3.7 Stack Joint – Vision / Metal

In the following, the THERM model is presented graphically

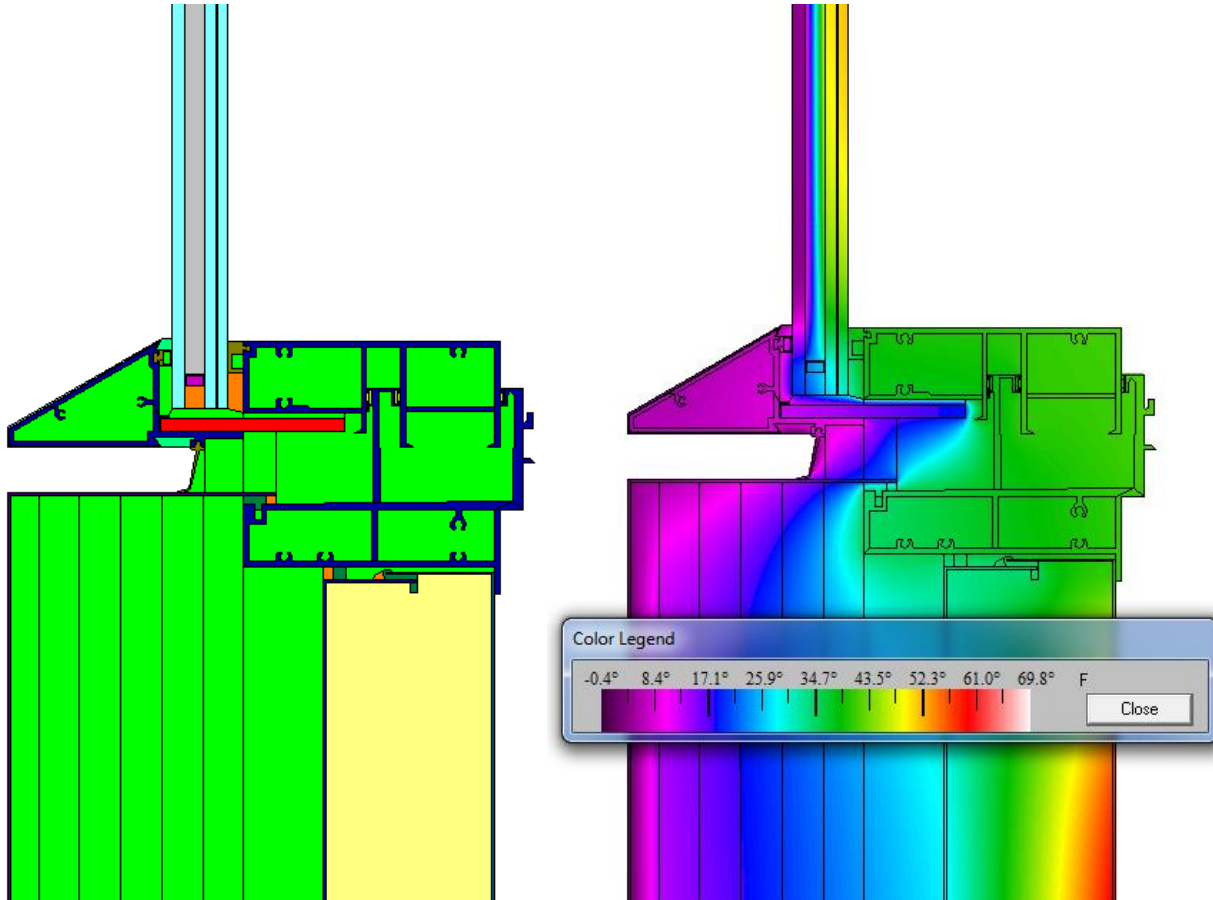


Figure 10: Stack Joint – Vision / Metal: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.28 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 5.50 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.33 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.36 \text{ Btu/h.ft}^2.\text{F}$



5.3.8 Stack Joint – Spandrel / Metal

In the following, the THERM model is presented graphically

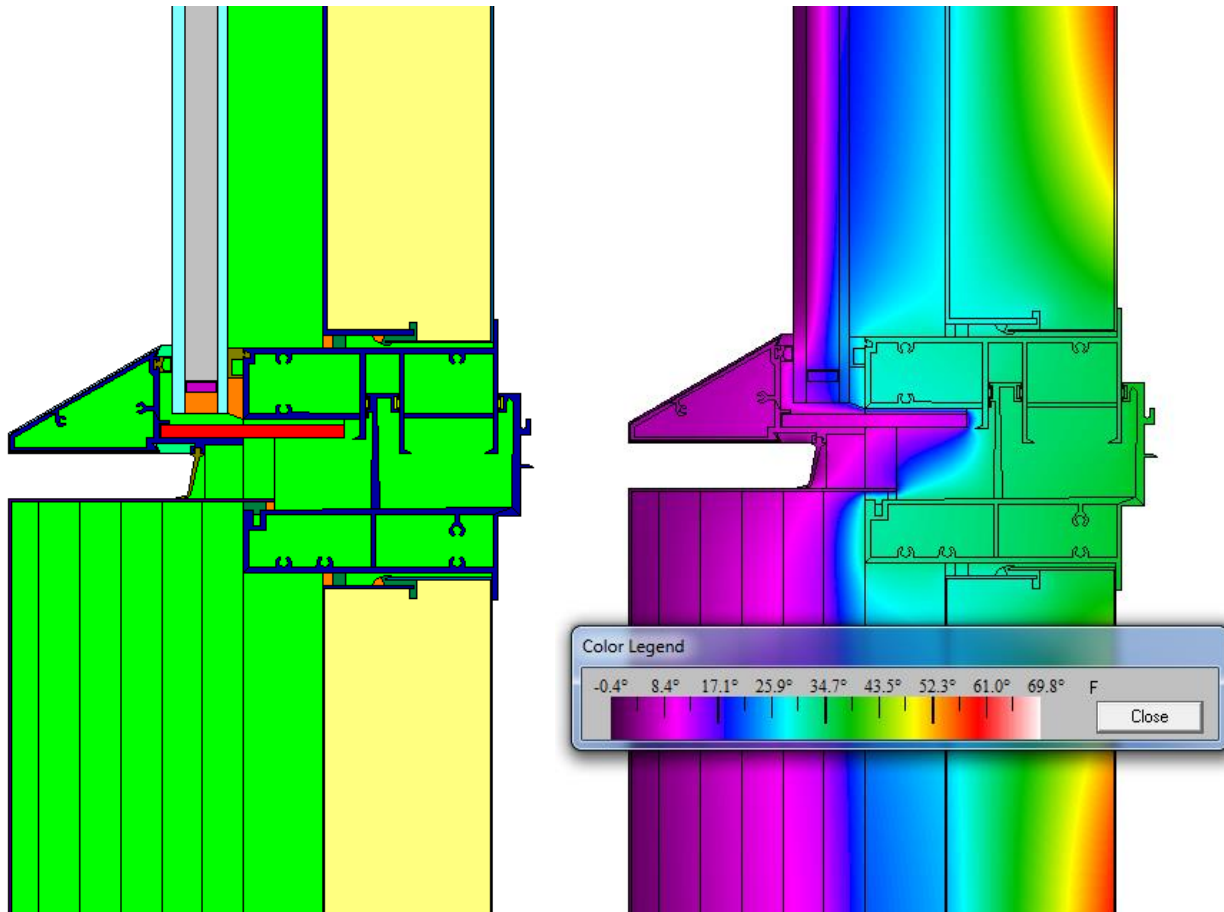


Figure 11: Stack Joint – Spandrel / Metal: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.78 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 5.50 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.42 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.41 \text{ Btu/h.ft}^2.\text{F}$



5.3.9 Transom – Metal / Operable

In the following, the THERM model is presented graphically

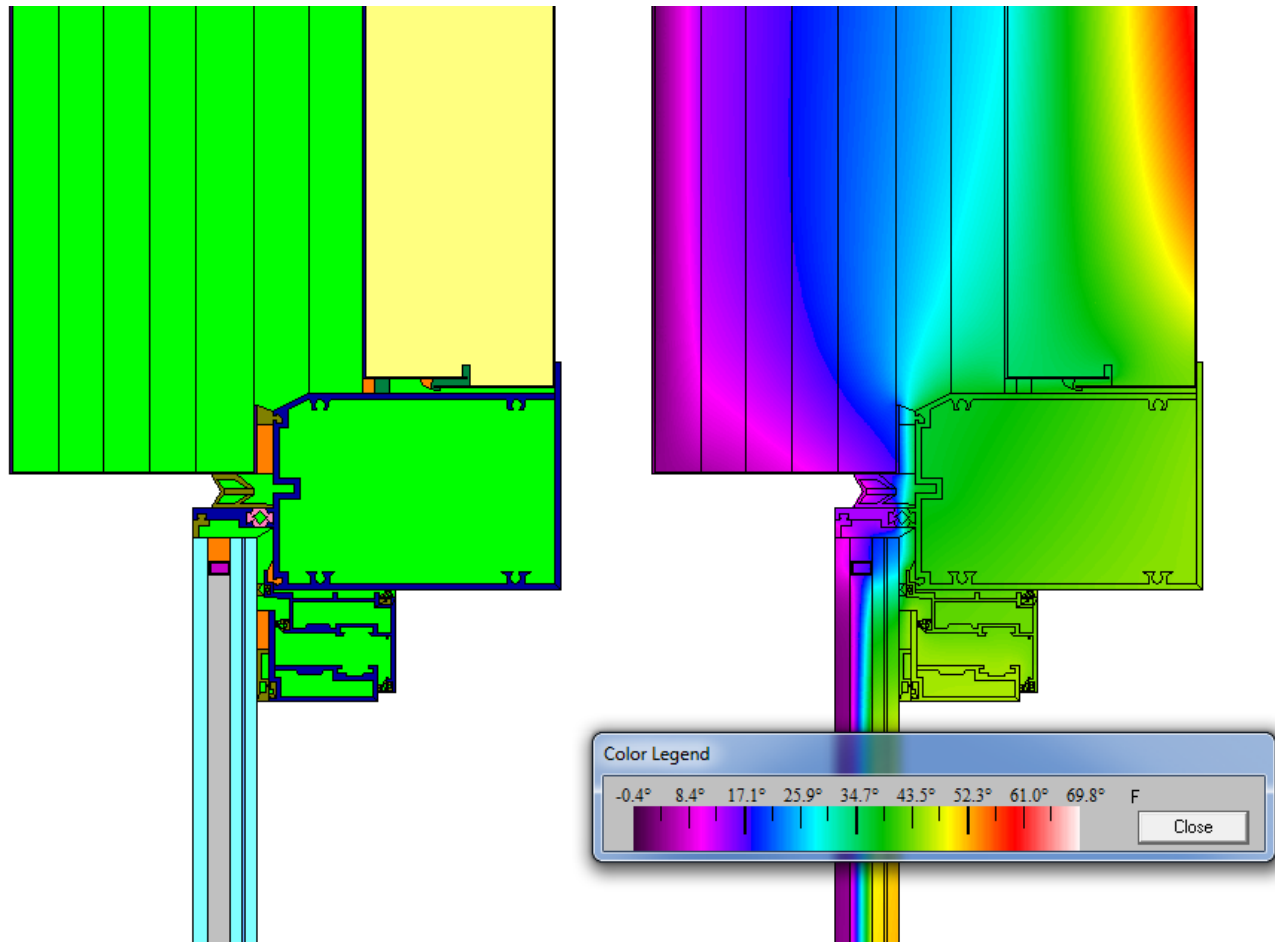


Figure 12: Transom – Metal / Operable: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.87 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.70 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.33 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.31 \text{ Btu/h.ft}^2.\text{F}$



5.3.10 Transom – Operable / Vision

In the following, the THERM model is presented graphically

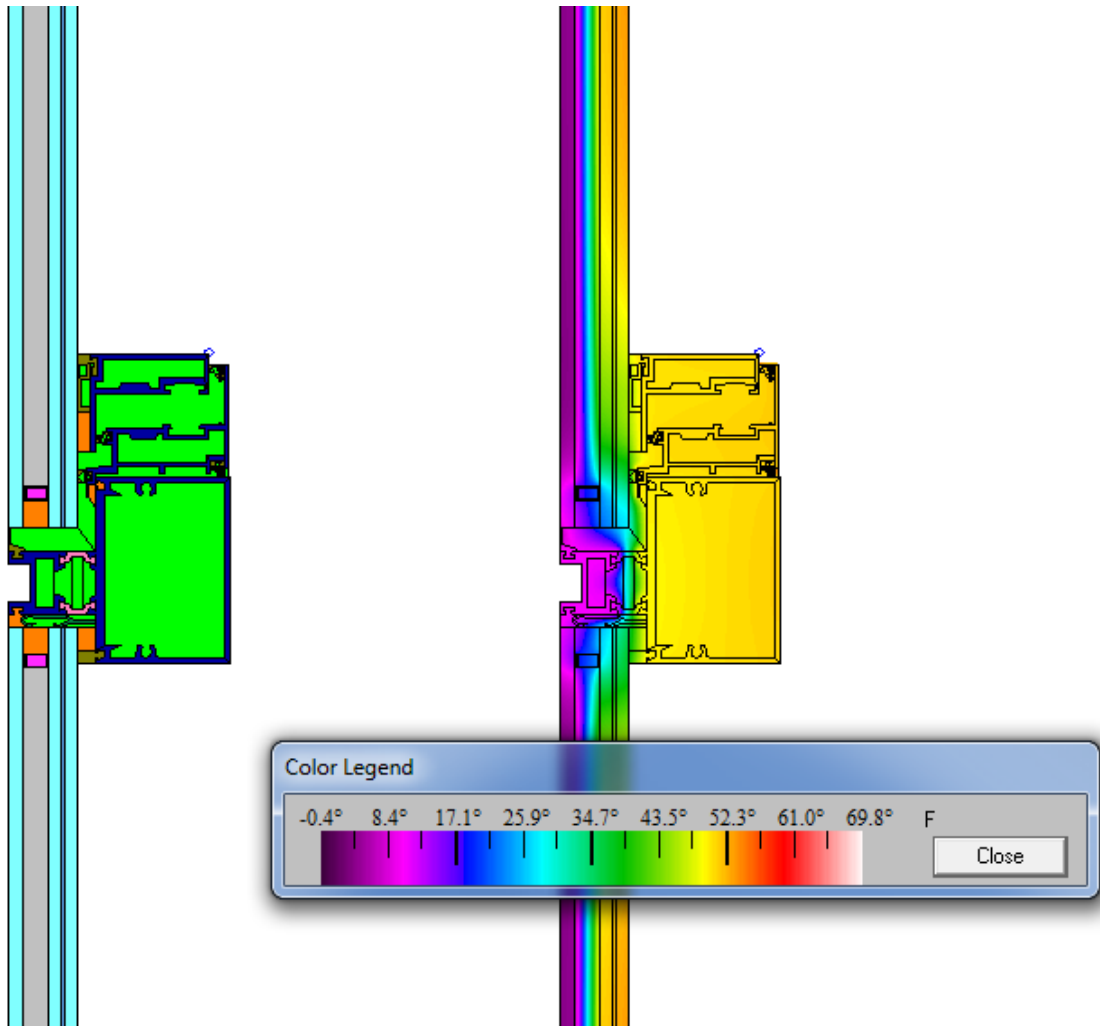


Figure 13: Transom – Operable / Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.66 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 6.19 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.30 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.40 \text{ Btu/h.ft}^2.\text{F}$



5.3.11 Transom – Metal / Spandrel

In the following, the THERM model is presented graphically

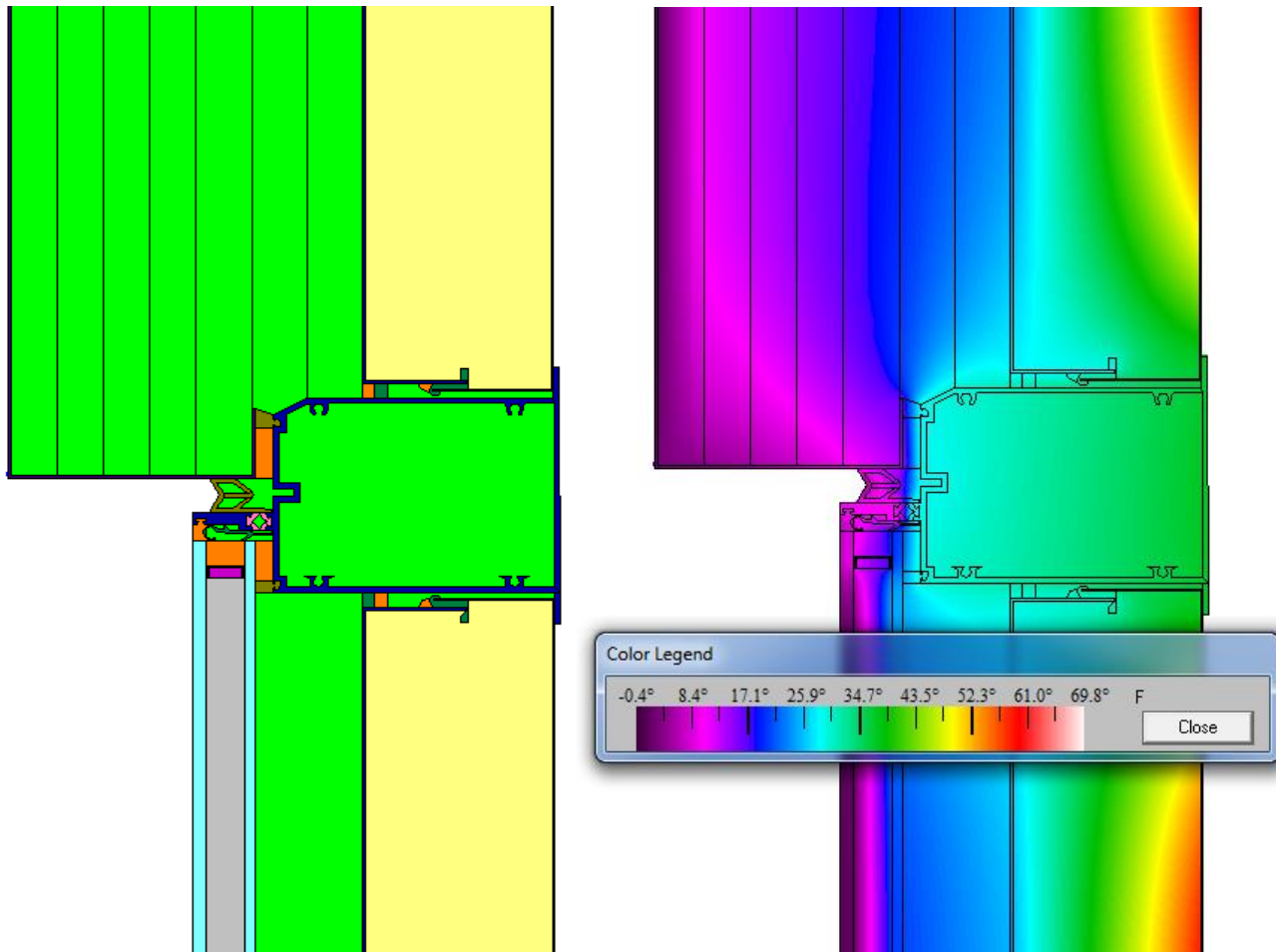


Figure 14: Transom – Metal / Spandrel: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 0.64 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.41 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.40 \text{ Btu/h.ft}^2.\text{F}$



3.3.1 Transom – Metal / Vision

In the following, the THERM model is presented graphically

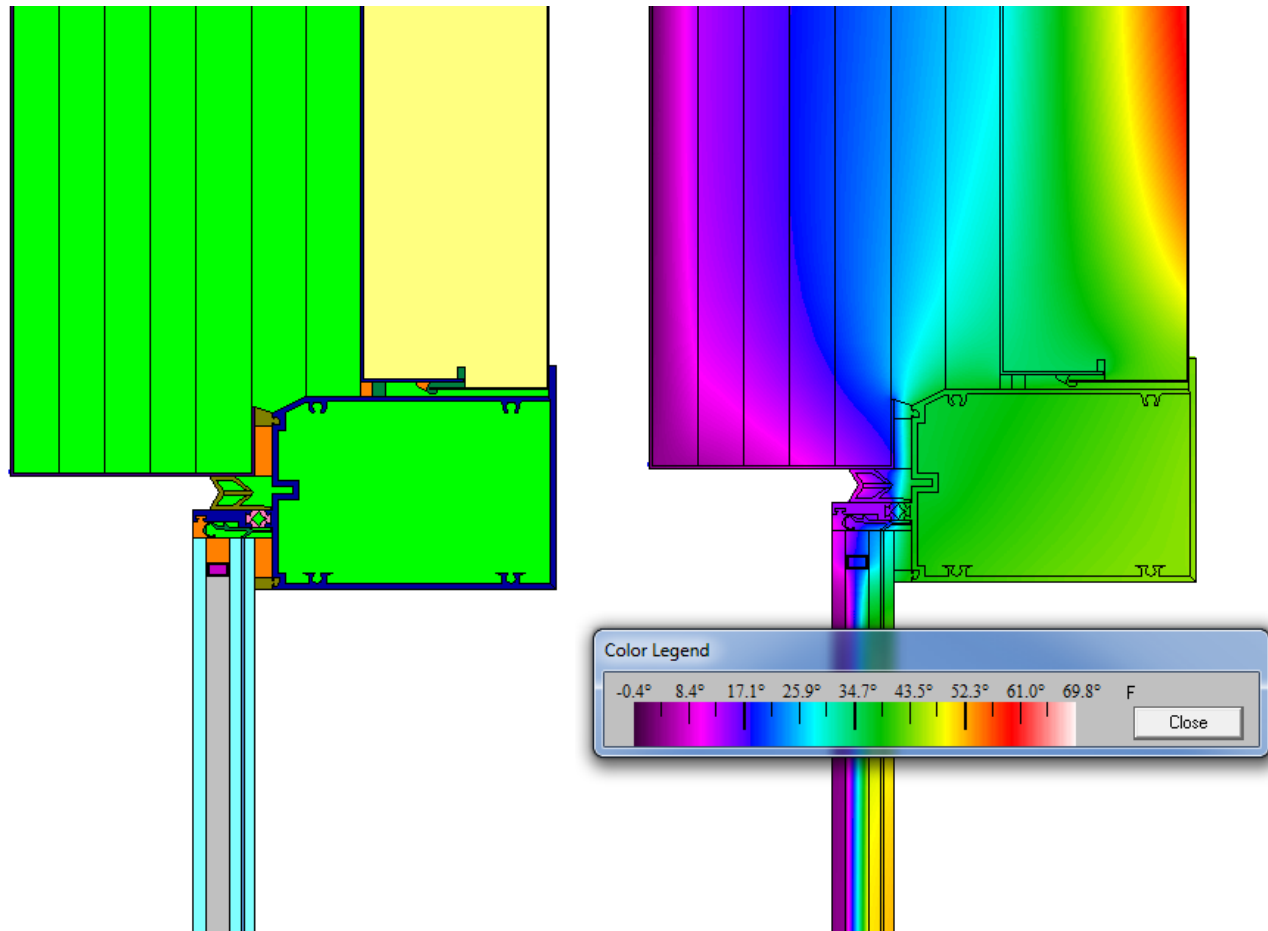


Figure 15: Transom – Metal / Vision: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.21 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 4.25 \text{ in}$
Edge Effect Top Side	$U_{e1} = 0.33 \text{ Btu/h.ft}^2.\text{F}$
Edge Effect Bottom Side	$U_{e2} = 0.36 \text{ Btu/h.ft}^2.\text{F}$



5.4 Overall U-Value

Area weighting of the U-values of all frames, glass and panels is used to calculate the overall U-value for each wall type.

Component	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Metal/Metal	0.15	92.60	0.64	0.10
Left Edge Effect	0.15	23.75	0.16	0.02
Right Edge Effect	0.15	23.75	0.16	0.02
Mullion - Vision/Operable	0.80	714.00	4.96	3.97
Left Edge Effect	0.35	225.75	1.57	0.55
Right Edge Effect	0.29	225.75	1.57	0.45
Mullion - Vision/Vision	1.05	148.16	1.03	1.08
Left Edge Effect	0.35	52.03	0.36	0.13
Right Edge Effect	0.35	52.03	0.36	0.13
Mullion - Operable/Spandrel	0.69	683.40	4.75	3.27
Left Edge Effect	0.30	231.88	1.61	0.48
Right Edge Effect	0.29	231.88	1.61	0.47
Mullion - Vision/Spandrel	0.92	136.00	0.94	0.87
Left Edge Effect	0.36	67.50	0.47	0.17
Right Edge Effect	0.32	67.50	0.47	0.15
Mullion - Metal/Metal	0.15	92.60	0.64	0.10
Left Edge Effect	0.15	23.75	0.16	0.02
Right Edge Effect	0.15	23.75	0.16	0.02
Mullion - Spandrel/Spandrel	0.63	620.42	4.31	2.71
Left Edge Effect	0.24	311.88	2.17	0.52
Right Edge Effect	0.24	311.88	2.17	0.52
Stack Joint - Vision/Metal	1.28	304.54	2.11	2.71
Top Edge Effect	0.33	125.93	0.87	0.29
Bottom Edge Effect	0.36	125.93	0.87	0.31
Transom - Metal/Operable	0.87	154.10	1.07	0.93
Top Edge Effect	0.33	45.00	0.31	0.10
Bottom Edge Effect	0.31	45.00	0.31	0.10
Transom - Operable/Vision	0.66	157.04	1.09	0.72
Top Edge Effect	0.30	50.93	0.35	0.11
Bottom Edge Effect	0.40	50.93	0.35	0.14
Transom - Metal/Spandrel	0.64	99.03	0.69	0.44
Top Edge Effect	0.41	45.75	0.32	0.13
Bottom Edge Effect	0.40	45.75	0.32	0.13



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Stack Joint - Spandrel/Metal	0.78	304.54	2.11	1.65
<i>Top Edge Effect</i>	0.42	125.93	0.87	0.37
<i>Bottom Edge Effect</i>	0.41	125.93	0.87	0.36
Transom - Metal/Spandrel	0.64	235.32	1.63	1.05
<i>Top Edge Effect</i>	0.41	125.93	0.87	0.36
<i>Bottom Edge Effect</i>	0.40	125.93	0.87	0.35
Vision Glass	0.28	2049.30	14.23	3.98
Spandrel Region	0.04	9777.01	67.90	2.72

Totals		18480.00	128.33	32.70
--------	--	----------	--------	-------

Overall U-Value	0.25 [Btu/h.ft ² .F]			
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Table 5: Thermal Transmittance of Wall Type E



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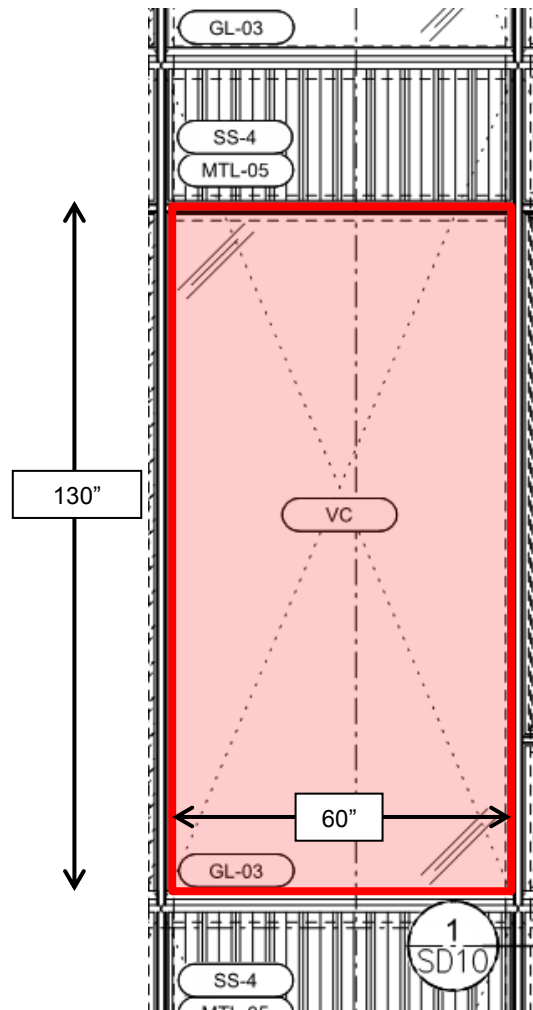


Figure 16: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Vision	1.05	601.90	4.18	4.39
Left Section	0.35	308.13	2.14	0.75
Right Section	0.35	308.13	2.14	0.75
Transom - Metal / Vision	1.21	235.32	1.63	1.98
Top Section	0.33	132.18	0.92	0.30
Bottom Section	0.36	132.18	0.92	0.33
Glass Vision	0.28	6082.18	42.24	11.83
Totals		7800	54	20.32
Vision U-Value	0.38 [Btu/h.ft ² .F]			

Table 6: Wall Type E Vision U-Value



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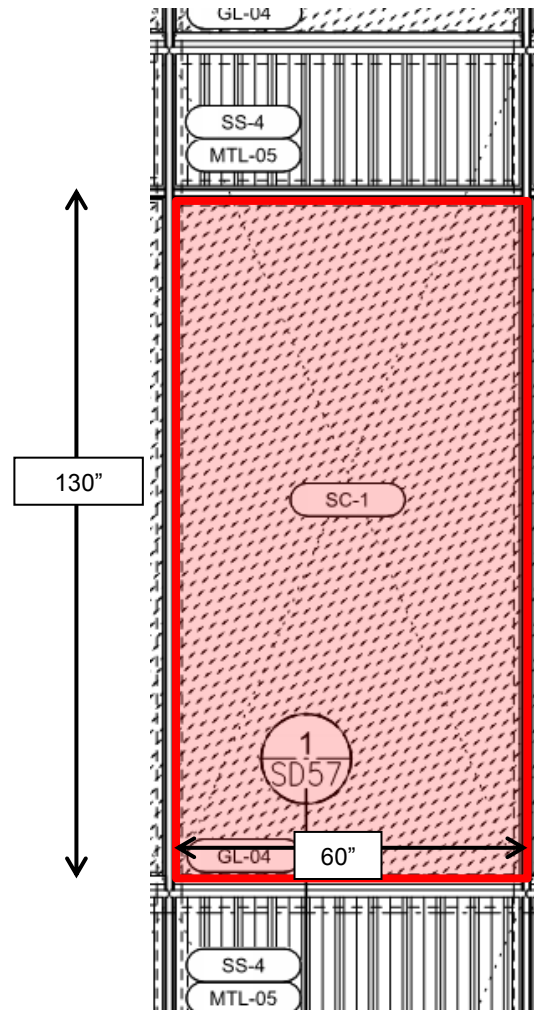


Figure 17: Typical Spandrel Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Spandrel / Spandrel	0.63	601.90	4.18	2.63
Left Section	0.24	308.13	2.14	0.51
Right Section	0.24	308.13	2.14	0.51
Transom - Metal / Spandrel	0.64	235.32	1.63	1.05
Top Section	0.41	132.18	0.92	0.38
Bottom Section	0.40	132.18	0.92	0.37
Glass Vision	0.04	6082.18	42.24	1.69
Totals		7800	54	7.14

Spandrel U-Value 0.13 [Btu/h.ft².F]

Table 7: Wall Type E Spandrel U-Value



6 CONDENSATION ASSESSMENT

The minimum internal surface temperature of the curtain wall has been assessed for each model using THERM 6.3 software using the specified Boundary Conditions. The absolute Minimum Temperature in the surface was found to be $t_{si,min}=39.3^{\circ}\text{F}$ on the Transom – Operable/Vision location of the façade (see following table).

Wall Type	Components	Dew Point Temperature ($^{\circ}\text{F}$)	Minimum Surface Temperature ($^{\circ}\text{F}$)	Maximum Allowed Relative Humidity (%)
Wall Type E	Mullion – Metal/Metal	39.1	49.8	52.1
	Mullion – Vision/Operable		41.5	38.0
	Mullion – Vision/Vision		41.6	38.2
	Mullion – Operable/Spandrel		47.2	47.3
	Mullion – Vision/Spandrel		41.1	37.4
	Mullion – Spandrel/Spandrel		40.1	36.0
	Stack Joint – Vision/Metal		40.1	36.0
	Stack Joint – Spandrel/Metal		39.6	35.3
	Transom – Metal/Operable		43.6	41.2
	Transom – Operable/Vision		39.3	35.1
	Transom – Metal/Spandrel		41.5	38.0
	Transom – Metal/Vision		40.3	36.3

Table 8: Condensation Assessment for Typical Details

With internal temperature of 68°F and Relative Humidity of 35% RH the Dew Point Temperature is 39.1°F . For the given Boundary Conditions, condensation will not occur on the interior surface of the façade and the performance is acceptable. Following THERM models of some critical sections are presented along with the Dew Point Isothermal Line as well as a temperature distribution for the specified Boundary Conditions.

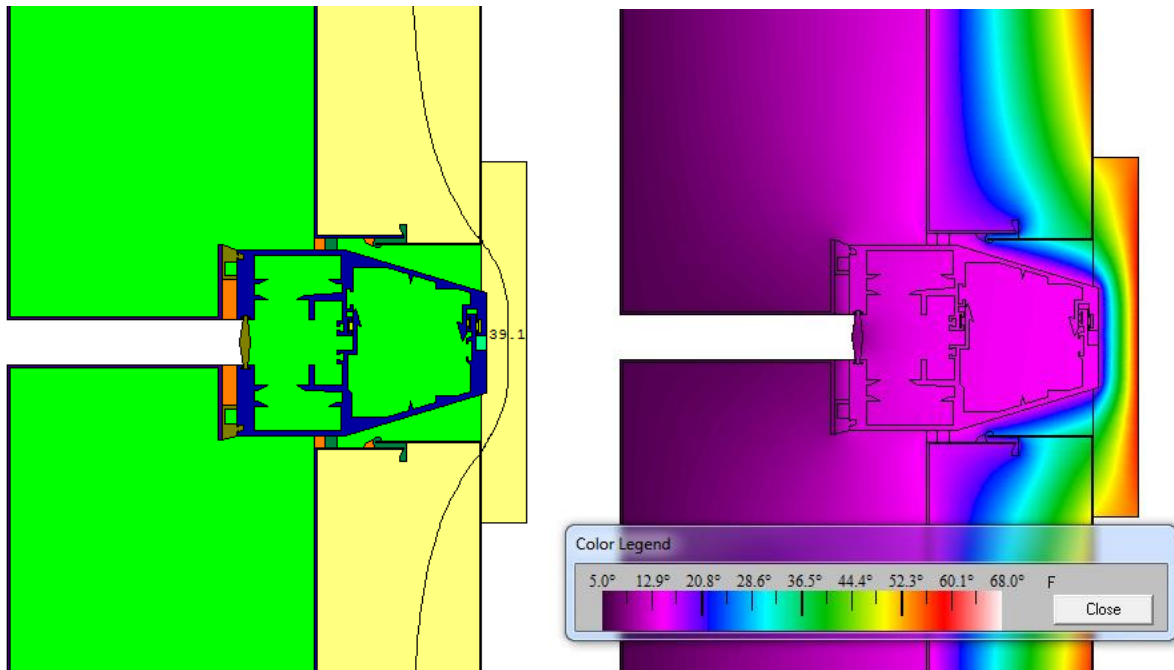


Figure 18: Mullion – Metal/Metal: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

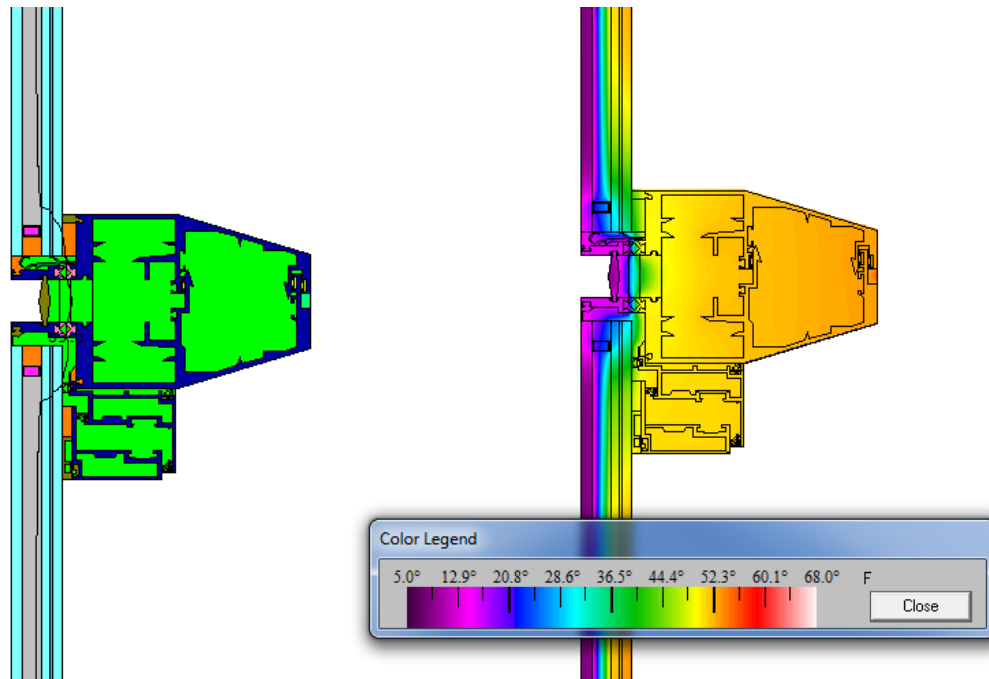


Figure 19: Mullion – Vision/Operable: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

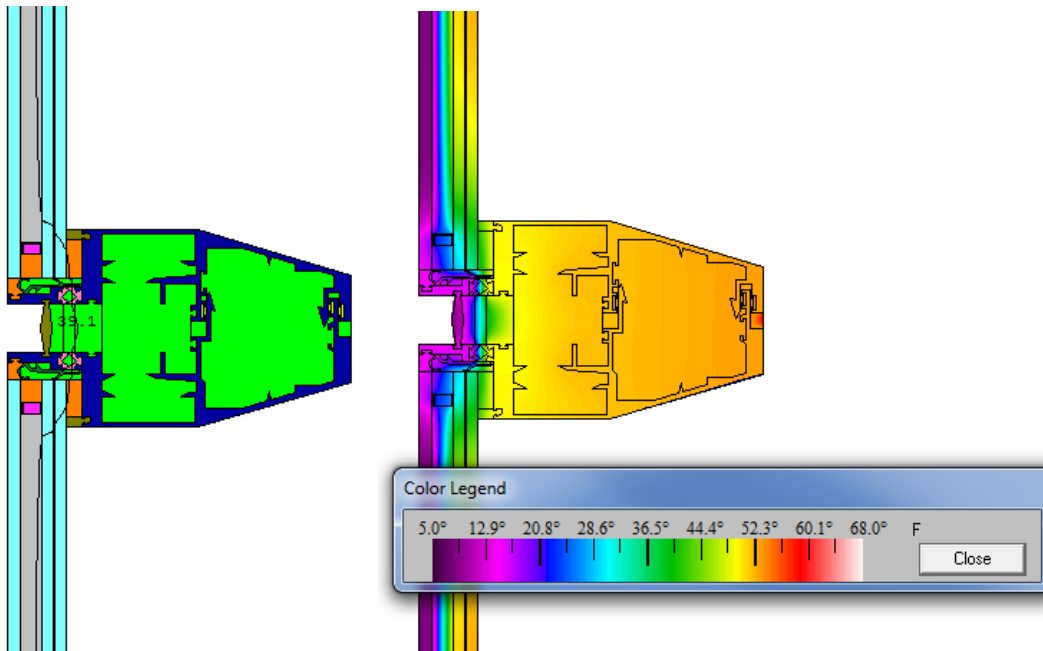


Figure 20: Mullion – Vision/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

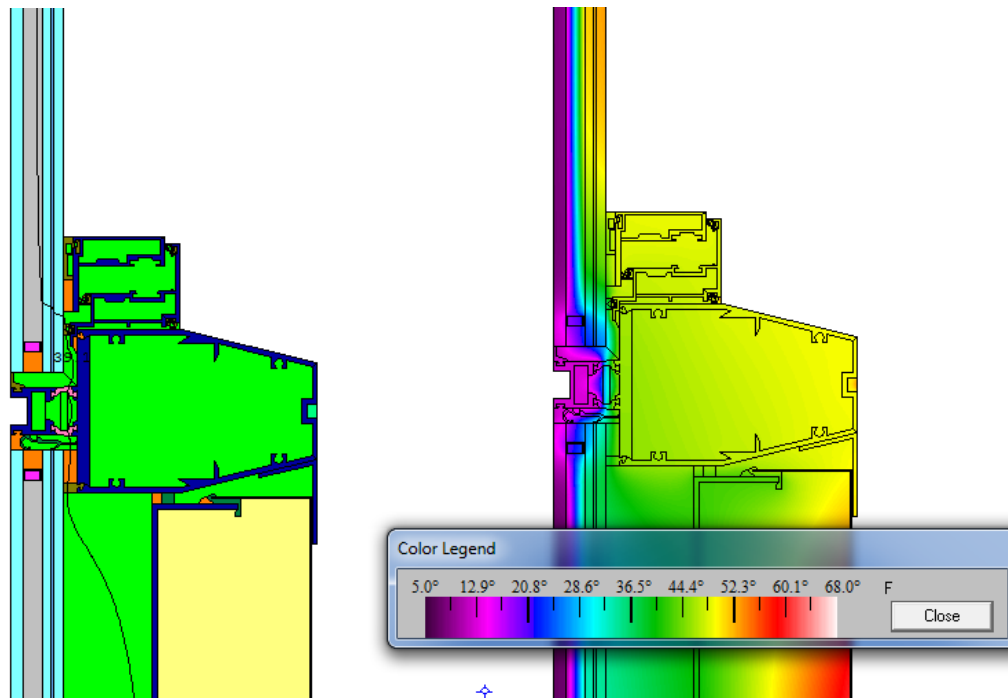


Figure 21: Mullion – Operable/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

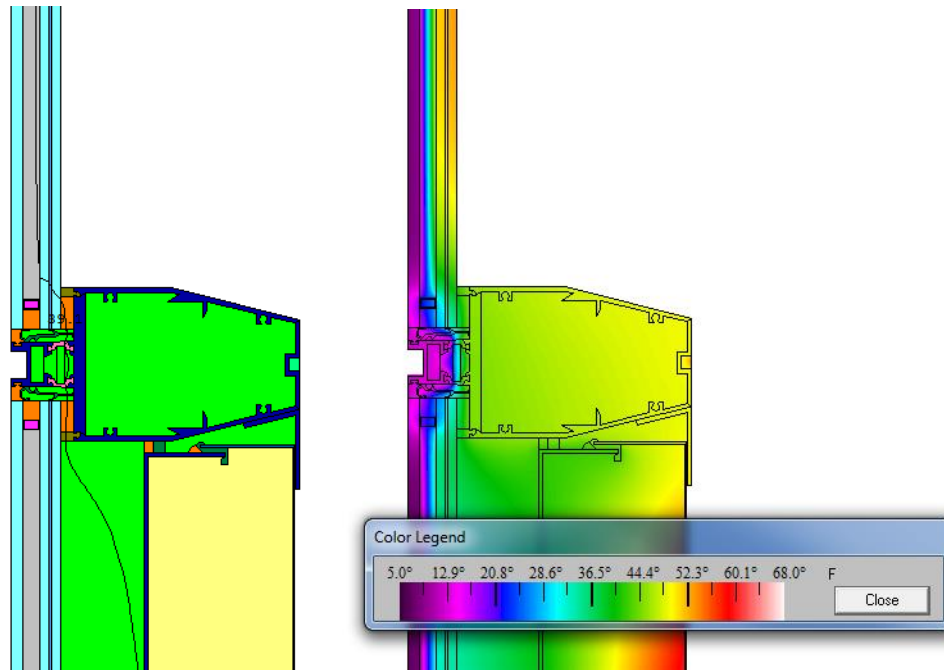


Figure 22: Mullion – Vision/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

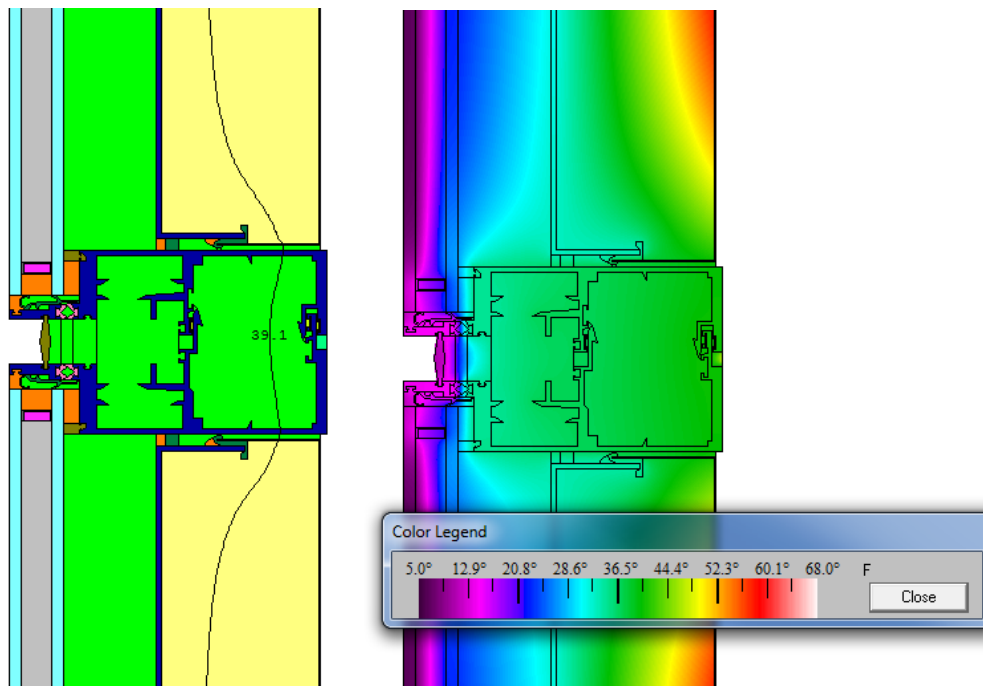


Figure 23: Mullion – Spandrel/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

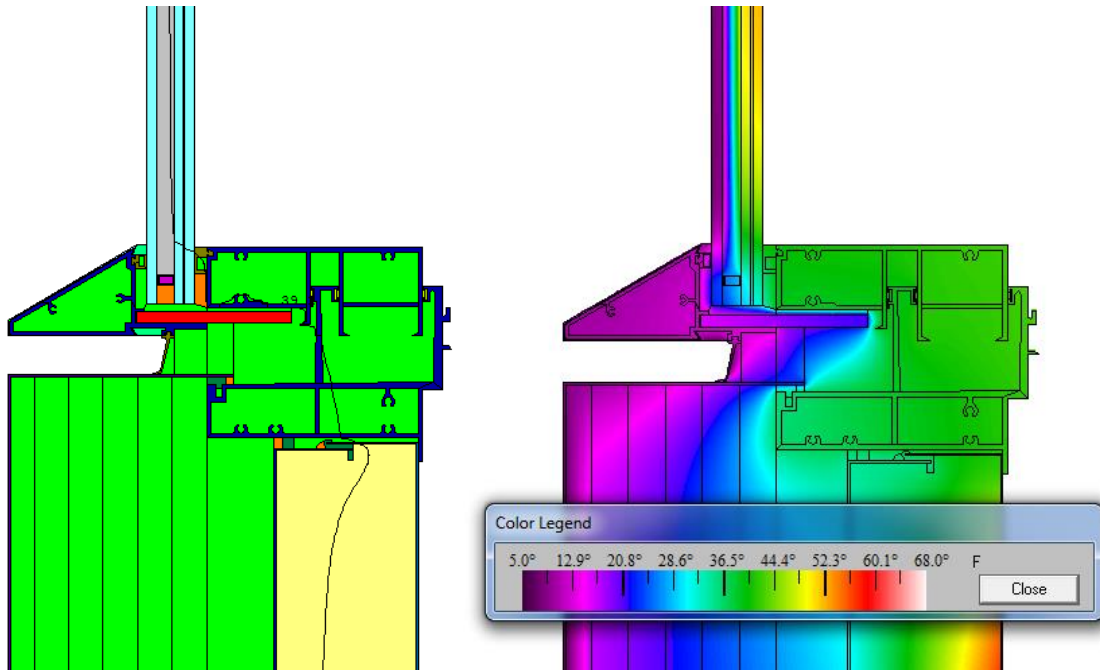


Figure 24: Stack Joint – Vision/Metal: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

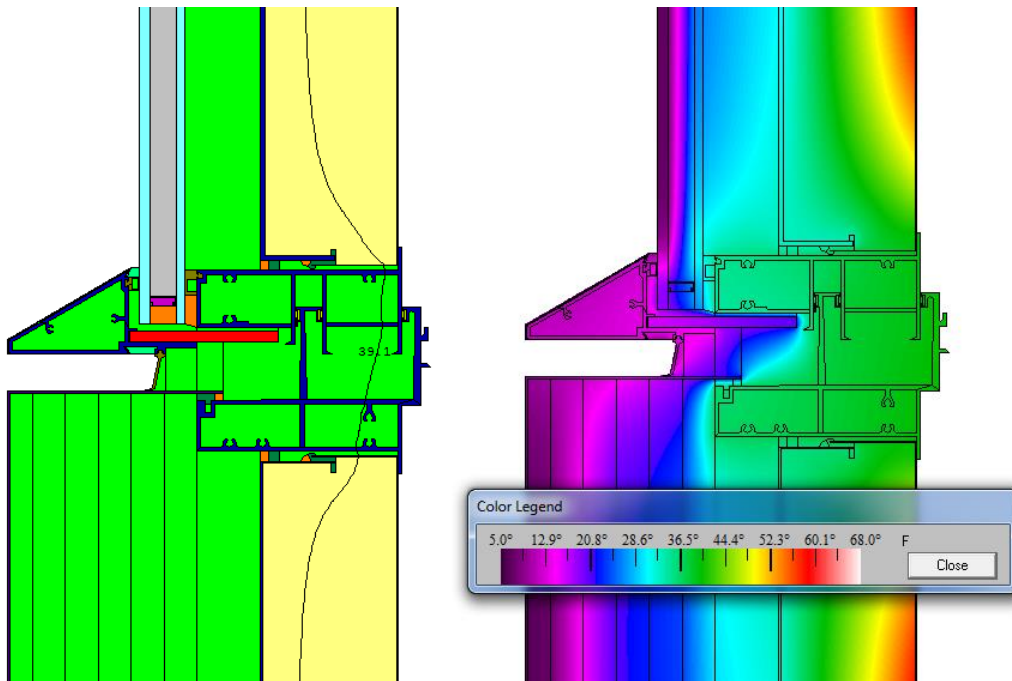


Figure 25: Stack Joint – Spandrel/Metal: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

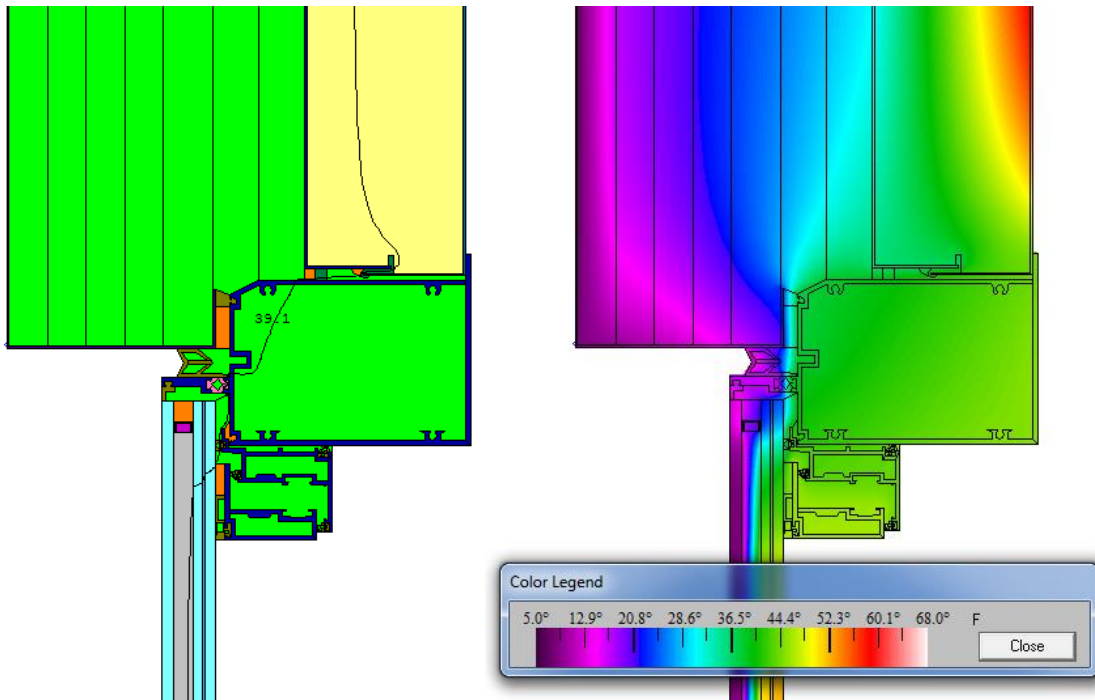


Figure 26: Transom – Metal/Operable: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

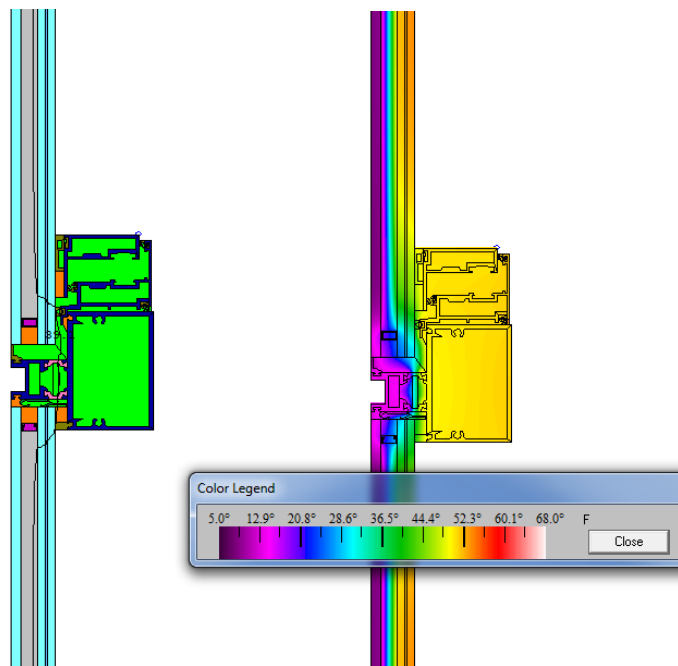


Figure 27: Transom – Operable/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

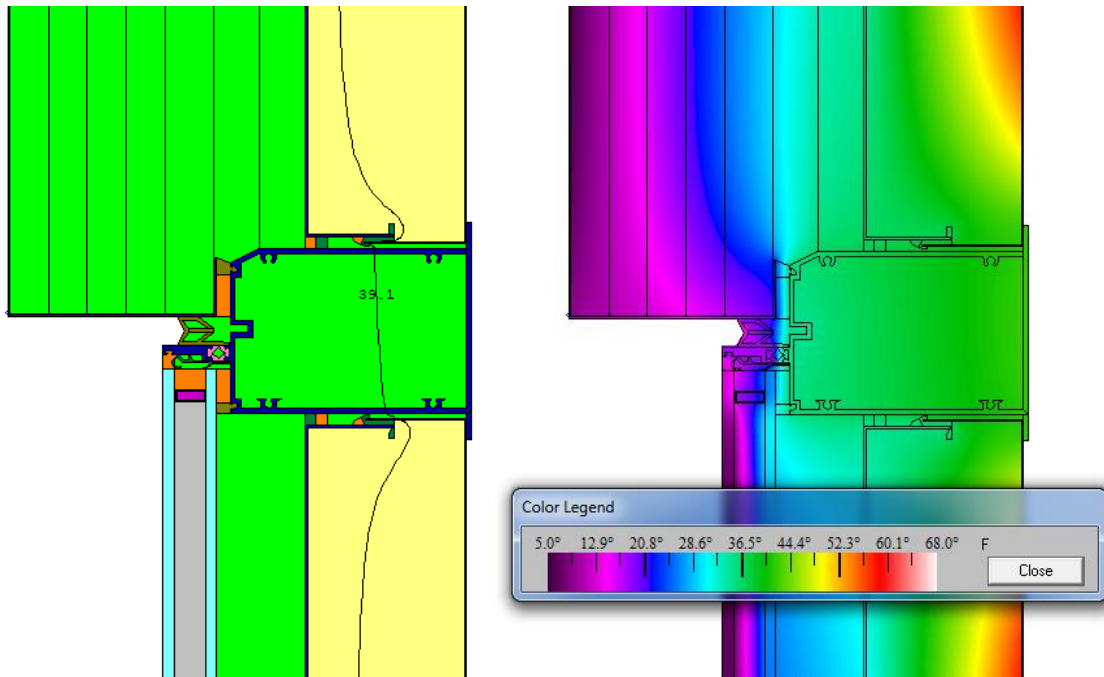


Figure 28: Transom – Metal/Spandrel: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)

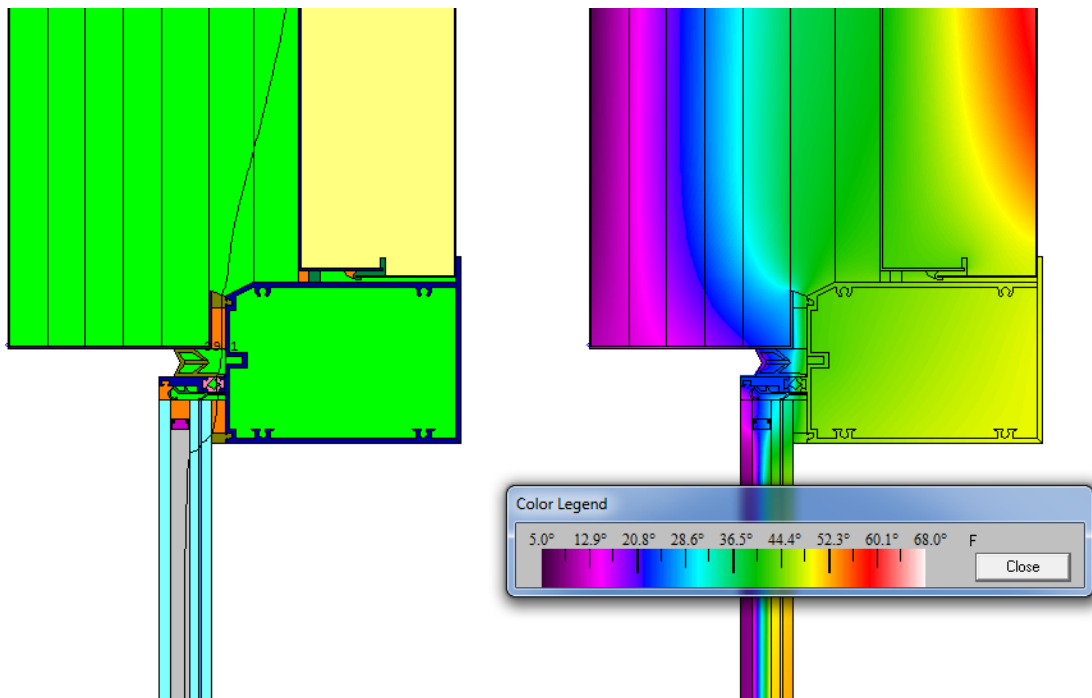


Figure 29: Transom – Metal/Vision: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 5°F - Internal Temperature 68°F)



7 REFERENCES

ASHRAE	ASHRAE Handbook of Fundamentals 1998-2001, American Society of Heating, Refrigerating, and Air-Conditioning Engineering, Atlanta, GA, USA, 2004.
ISO 6946: 2007	Building components and building elements - Thermal resistance and thermal transmittance - Calculation method
ISO 10077-1: 2006	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 1: General
ISO 10077-2: 2003	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames
ISO 10211: 2007	Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations
ISO 13788:2001	Hydrothermal performance of building components and building elements - Internal surface temperature to avoid critical surface humidity and interstitial condensation - Calculation methods
ISO 15099: 2003	Thermal performance of windows, doors and shading devices - Detailed calculations
NFRC 100: 2010	Procedure for Determining Fenestration Product U-Factors.
NFRC 200: 2010	Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
NFRC 300: 2010	Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems
THERM	THERM 6.3 Program description. Windows and Daylighting Group. Lawrence Berkeley National Laboratory, 2002.



Submittal Transmittal

Detailed, Grouped by Each Number

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New York, NY 10166

Project # 11668500
Tel: 212.592.6700 Fax:

Lend Lease (US) Construction LMB Inc.

Date: 4/23/2015

Reference Number: 0262

Transmitted To: Joe Welker
James Carpenter Design

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Lend Lease (US) Construction LMB Inc.
200 Park Avenue
9th Floor
New York, NY 10166
Tel: 212-592-6700
Fax: 212-592-6988

Qty	Submittal Package No	Description	Due Date	Package Action
26	0024 - 08 44 13 - 0	PNA Retail: Bent Glass Energy Performance Report	5/14/2015	

Transmitted For	Delivered Via	Tracking Number
For Approval	Prolog Converge	

Items	Qty	Description	Notes	Item Action
0001		Podium Radiation and Shading Analysis		

Cc:	Company Name	Contact Name	Copies	Notes
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Remarks

Priority: HIGH

JOB NO: 14.04 SUBMISSION NO: 1

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APPROVED ☒ APPROVED AS NOTED. ~~REQUIRE FOR RECORD~~ REVISE AND RESUBMIT REJECTED

CHECKED BY: JRW DATE: Apr 27, 2015

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- REVIEWED FOR TECHNICAL MERIT ONLY
- NOT REVIEWED FOR QUANTITIES OR DIMENSIONAL ACCURACY

REVIEWED ☒ NOT REVIEWED ☐

REVIEWED BY: MSF

REVIEW DATE: 5/04/15

Signature

Signed Date



PERMASTEELISA NORTH AMERICA

217 WEST 57TH STREET

PROJECT 865

NEW YORK, NY

PODIUM RADIATION AND SHADING ANALYSIS

DOC NAME: 90918 TC 004-00-150421 JH

Rev.	Date	Description	Prepared by	Checked by
02				
01				
00	04/21/2015	First Submission	JH	AF





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1 SUMMARY

Analysis has been requested for the 217 West 57th Street (Hardrock) podium in New York, New York. The analyzed double glazing unit consists of an external laminated low iron annealed glass with gray frit dots (25% coverage) on surface # 1 and an internal laminated low iron annealed glass. Datasheets containing all thermal performance and optical properties from each vendor can be seen in Figures 1 – 3.

To prove annealed glass will be sufficient, an investigation of the project site's weather data was initially carried out. The exterior air temperature as well as the solar radiation on the vertical plane was analyzed for the north, south, east, and west elevations. The north elevation was mostly ignored due to its low radiation levels. This weather data was applied to an Ecotect model to visualize the potential radiation acting on the podium. Surrounding infrastructure was also taken into consideration to better understand the effects of shadows.

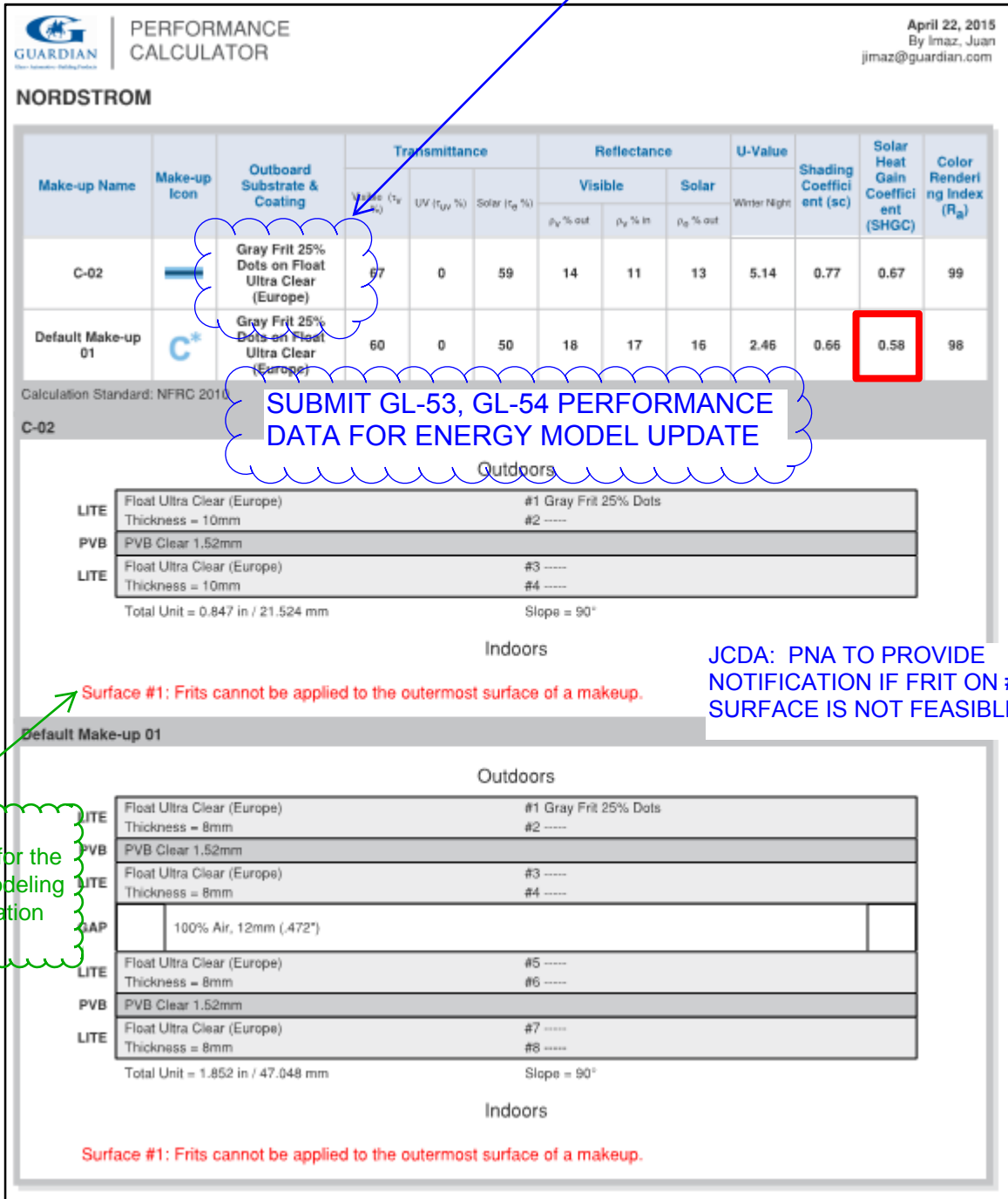
As a result, a substantial portion of the podium will be fully shaded and locations will experience low radiation levels compared to the tower.



2 GLAZING SYSTEM

Refer to below figures from Cricursa and SunGlass showing thermal performance and optical properties. The solar heat gain coefficient (SHGC) is highlighted within datasheet.

JCDA: PROVIDE 25% FRIT, GREY (RAL 7045)



JCDA: PNA TO PROVIDE NOTIFICATION IF FRIT ON #1 SURFACE IS NOT FEASIBLE

Figure 1: Performance Datasheet with Grey Frit (Cricursa)

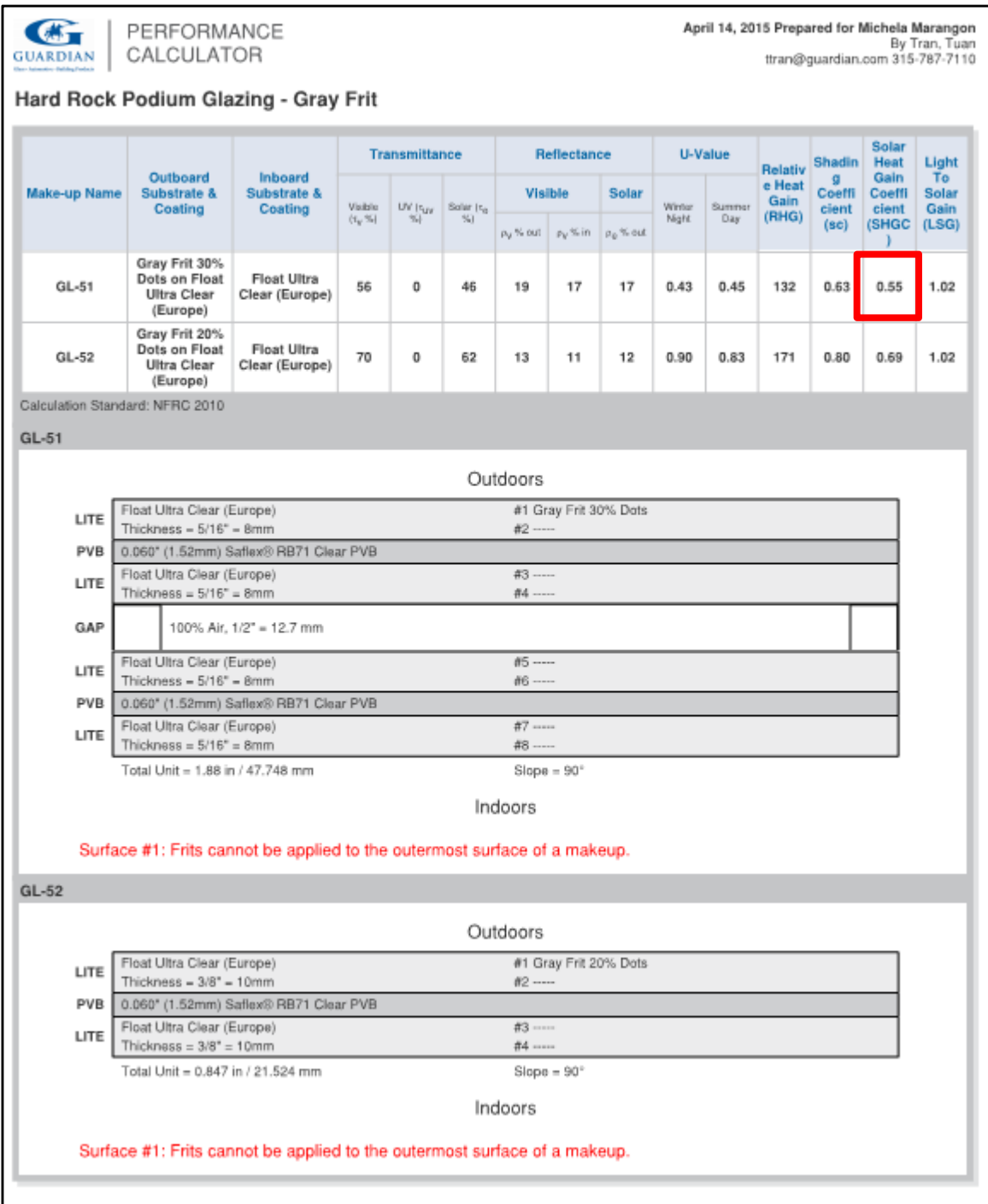


Figure 2: Performance Datasheet with Grey Frit (SunGlass)

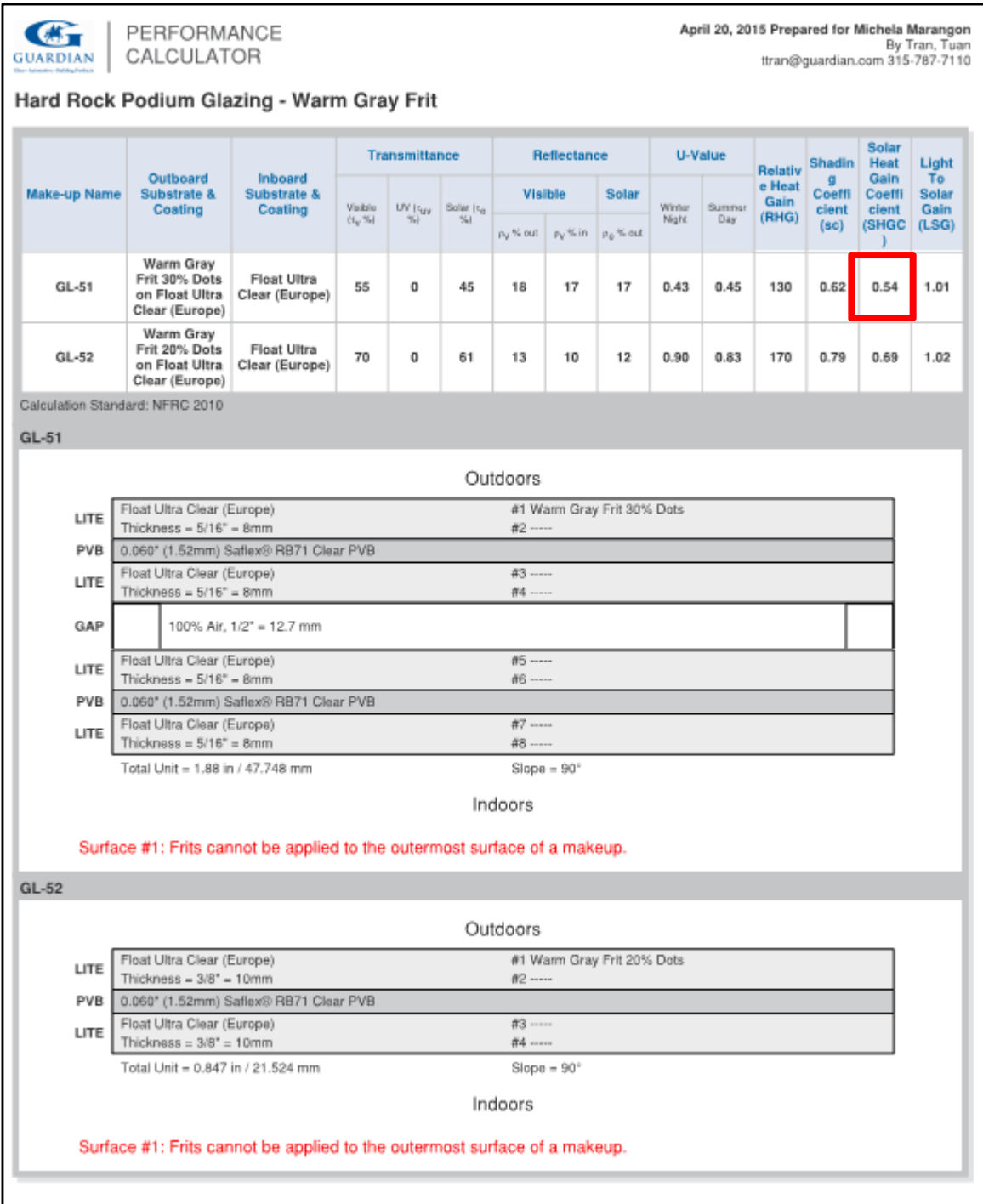


Figure 3: Performance Datasheet with Warm Grey Frit (SunGlass)



3 WEATHER DATA

The Global Meteorological Database Meteonorm v4.0 software provides hourly external temperatures and global radiation. Peak values for solar radiation were found during each season. Temperature data was derived for New York City, New York. Results are shown below:

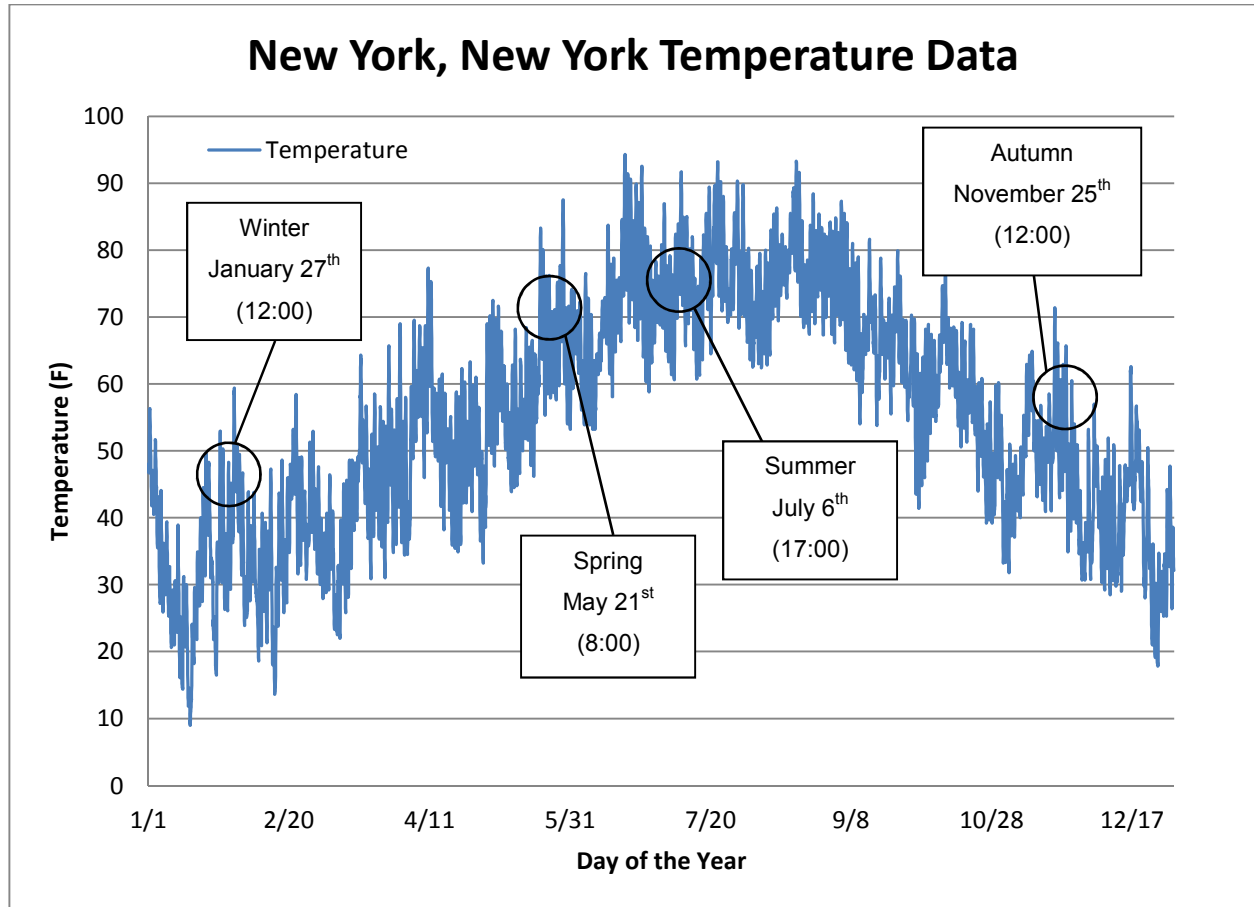


Figure 4: New York, New York Temperature Data

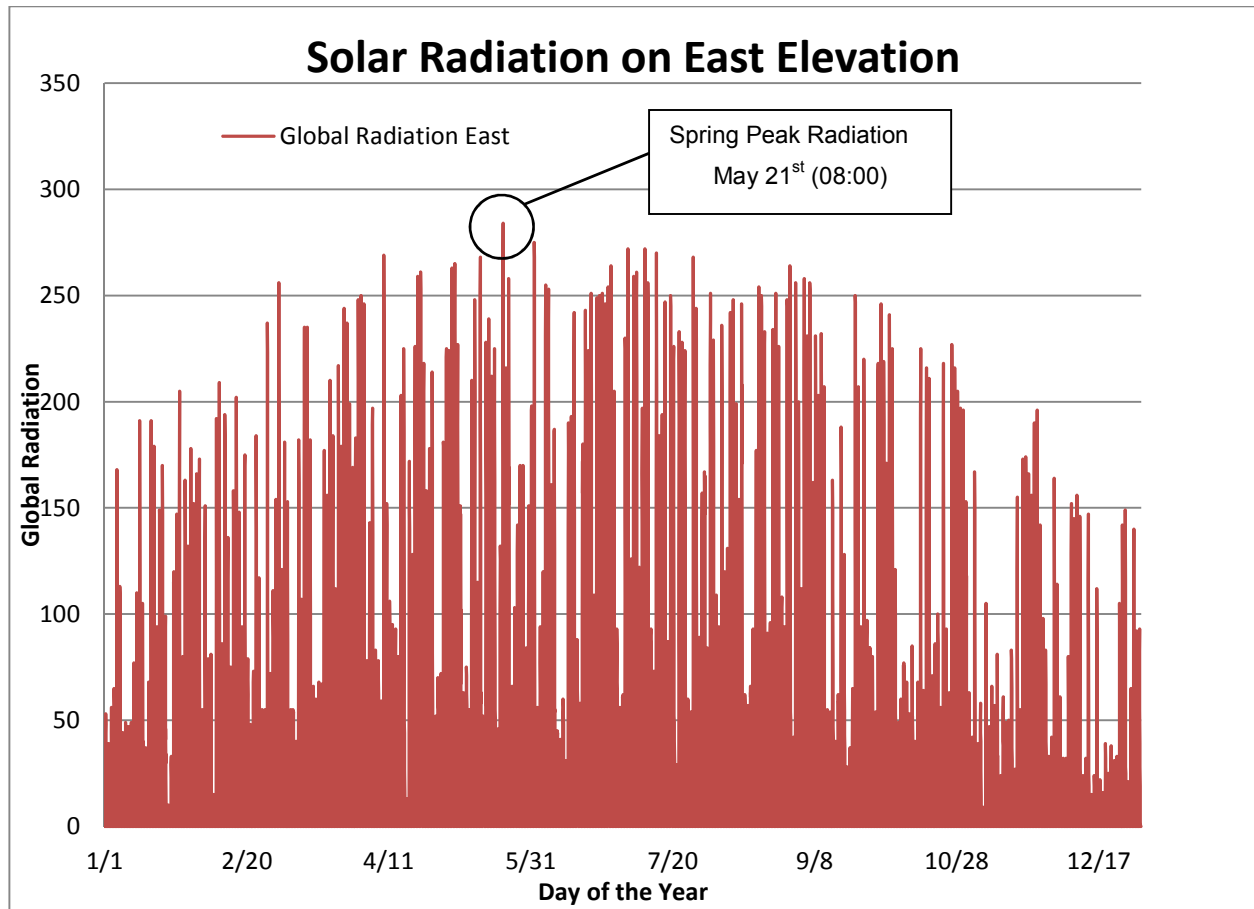


Figure 5: Solar Radiation on East Elevation

Spring Maximum Global Radiation:

Date	May 21 st (08:00)
External Temperature	71.2 F (21.78 C)
Maximum Global Radiation	284 Btu/h/ft ² (895 W/m ² .K)

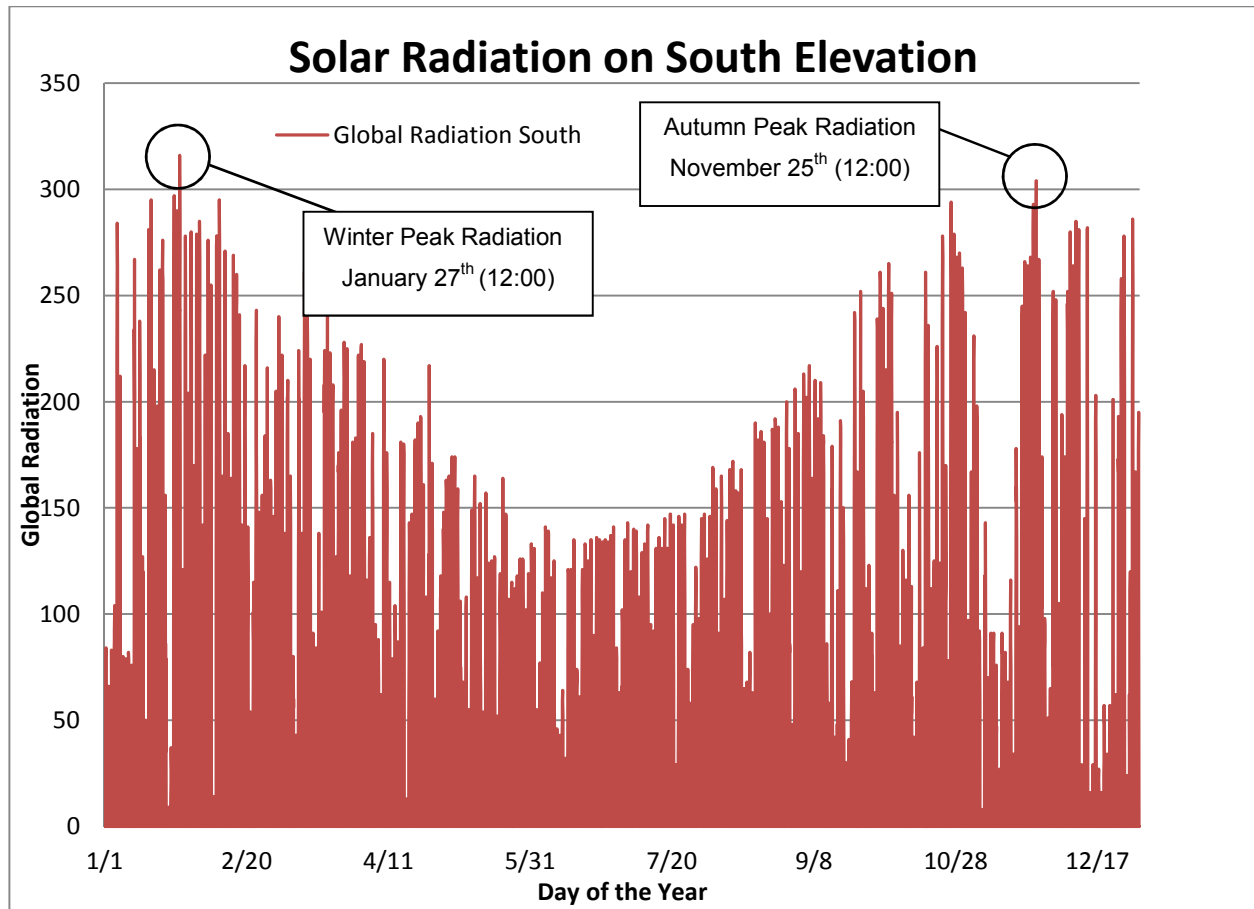


Figure 6: Solar Radiation on South Elevation

Winter Maximum Global Radiation:

Date	January 27 th (12:00)
External Temperature	47.3 F (8.50 C)
Maximum Global Radiation	316 Btu/h/ft ² (995 W/m ² .K)

Autumn Maximum Global Radiation:

Date	November 25 th (12:00)
External Temperature	57.2 F (14.0 C)
Maximum Global Radiation	304 Btu/h/ft ² (959 W/m ² .K)

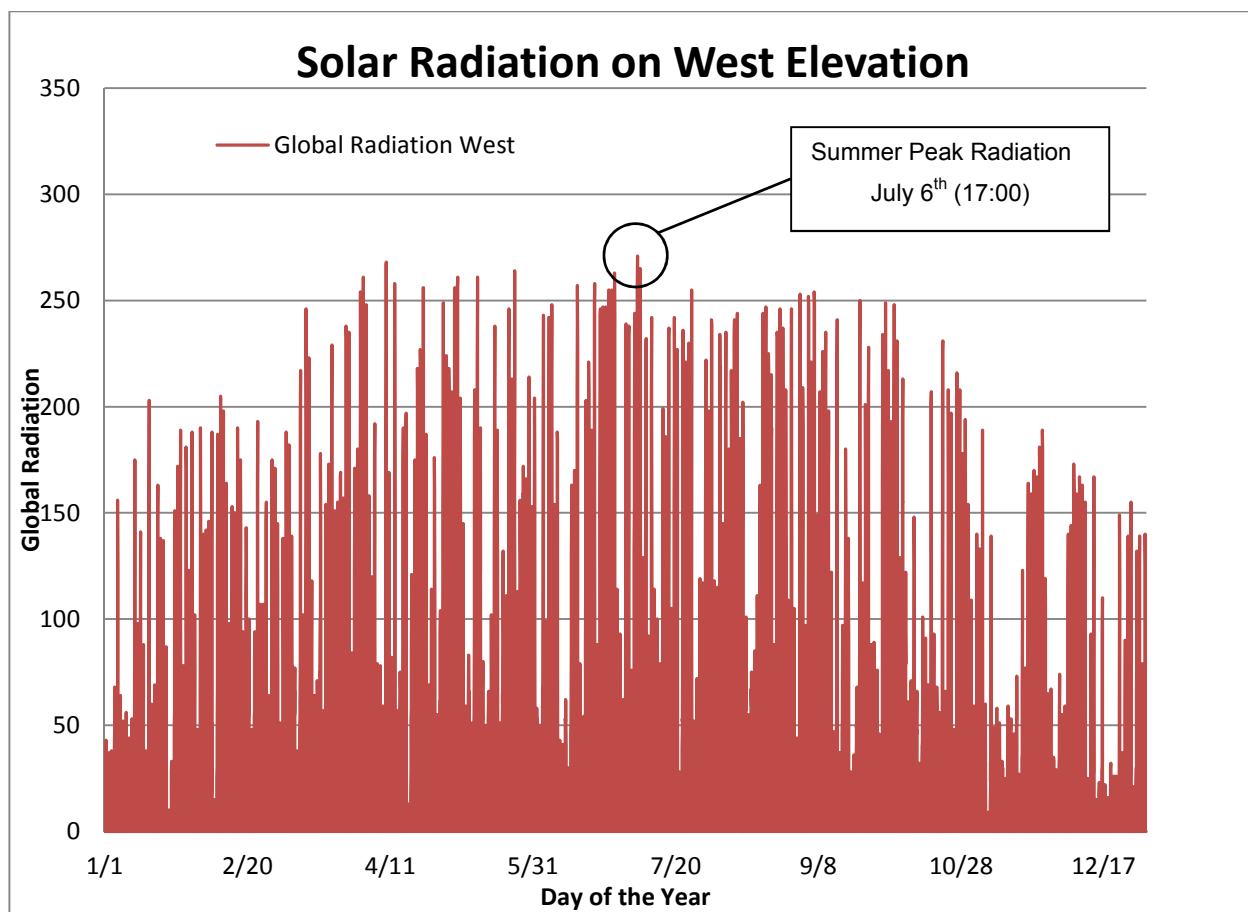


Figure 7: Solar Radiation on West Elevation

Summer Maximum Global Radiation:

Date	July 6 th (17:00)
External Temperature	75.4 F (24.11 C)
Maximum Global Radiation	271 Btu/h/ft ² (854 W/m ² .K)

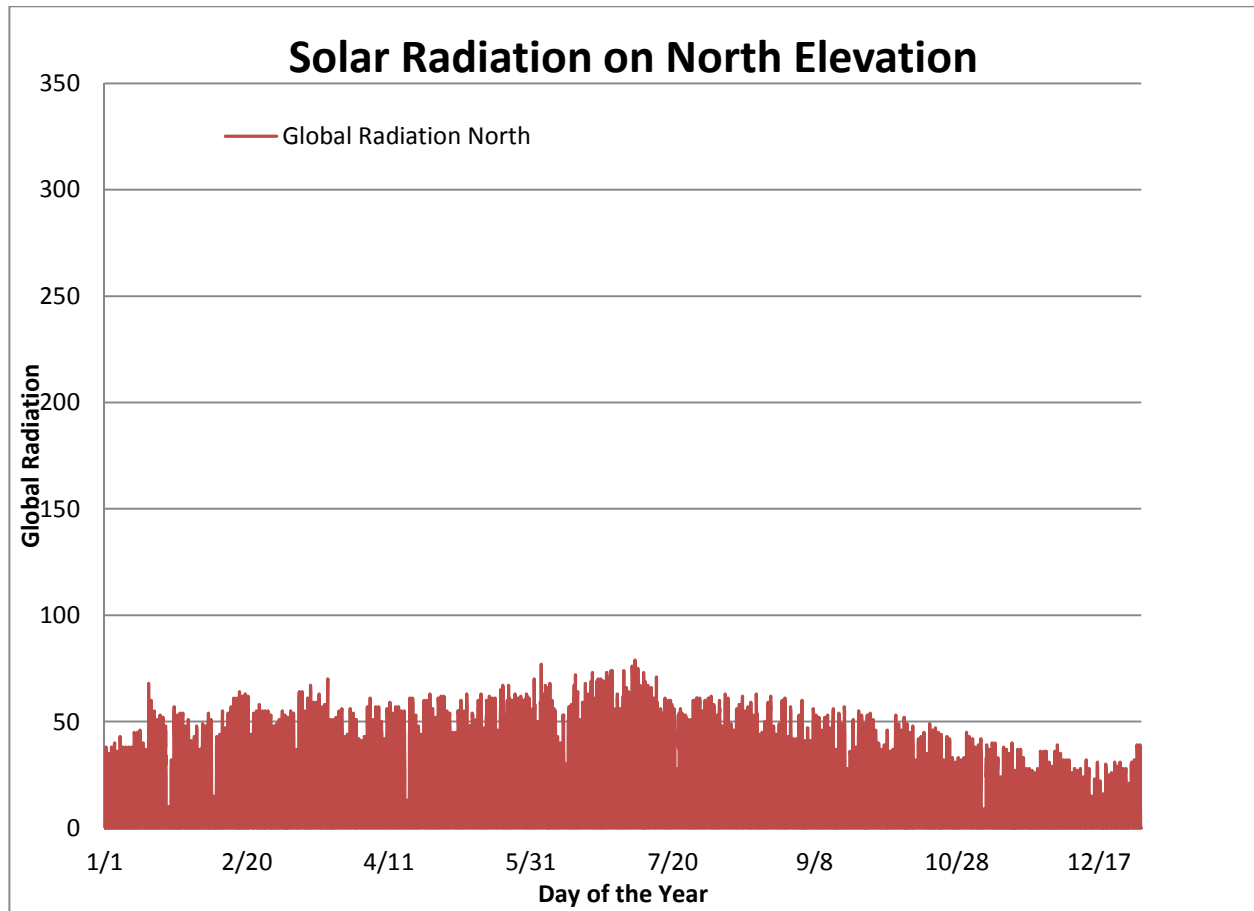


Figure 8: Solar Radiation on North Elevation



4 ECOTECT ANALYSIS

4.1 Annual Average Radiation

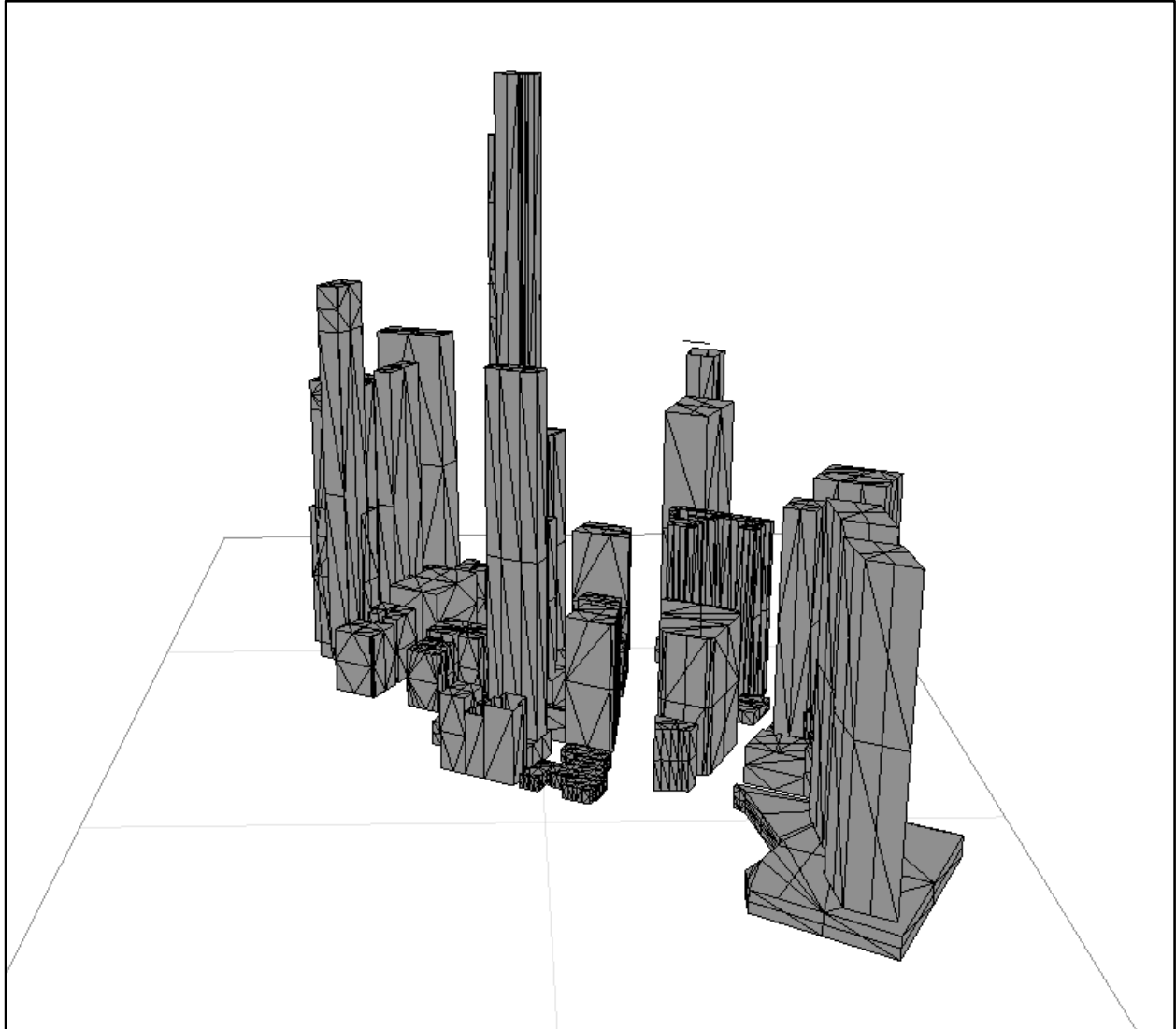


Figure 9: Ecotect Model Geometry (North Elevation)

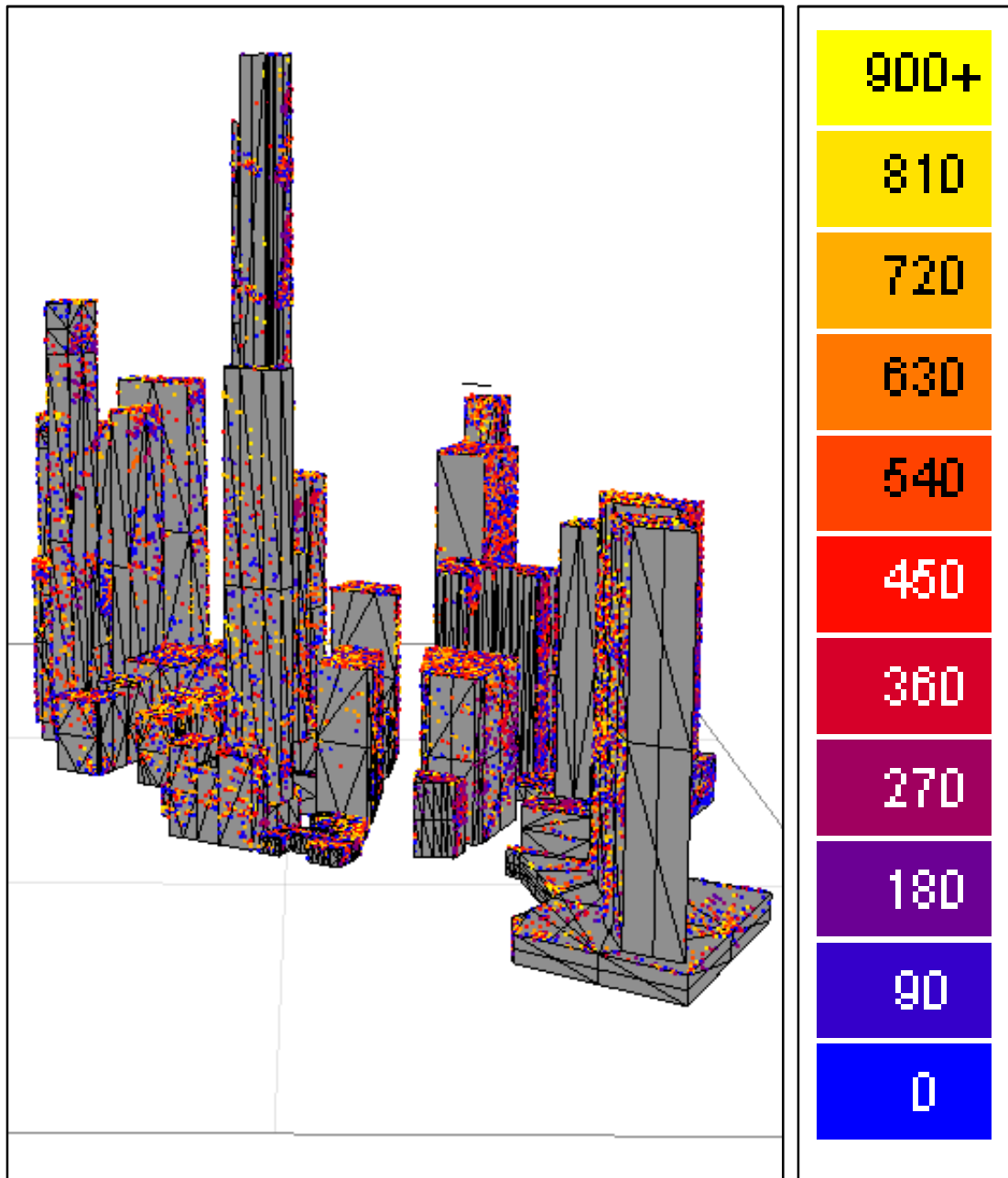


Figure 10: Annual Radiation Overall Model (North Elevation)
Units (W/m2-K)

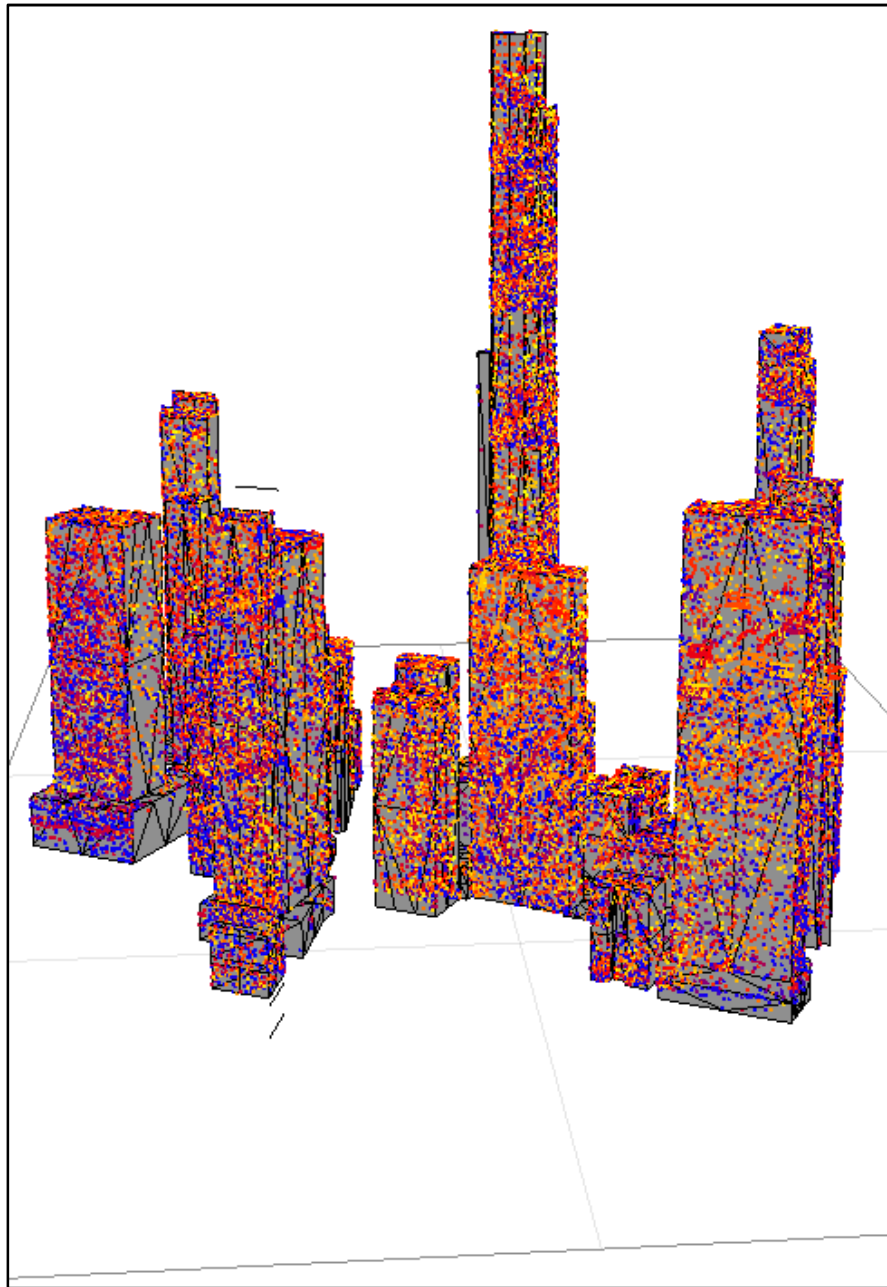


Figure 11: Annual Radiation Overall Model (South Elevation)

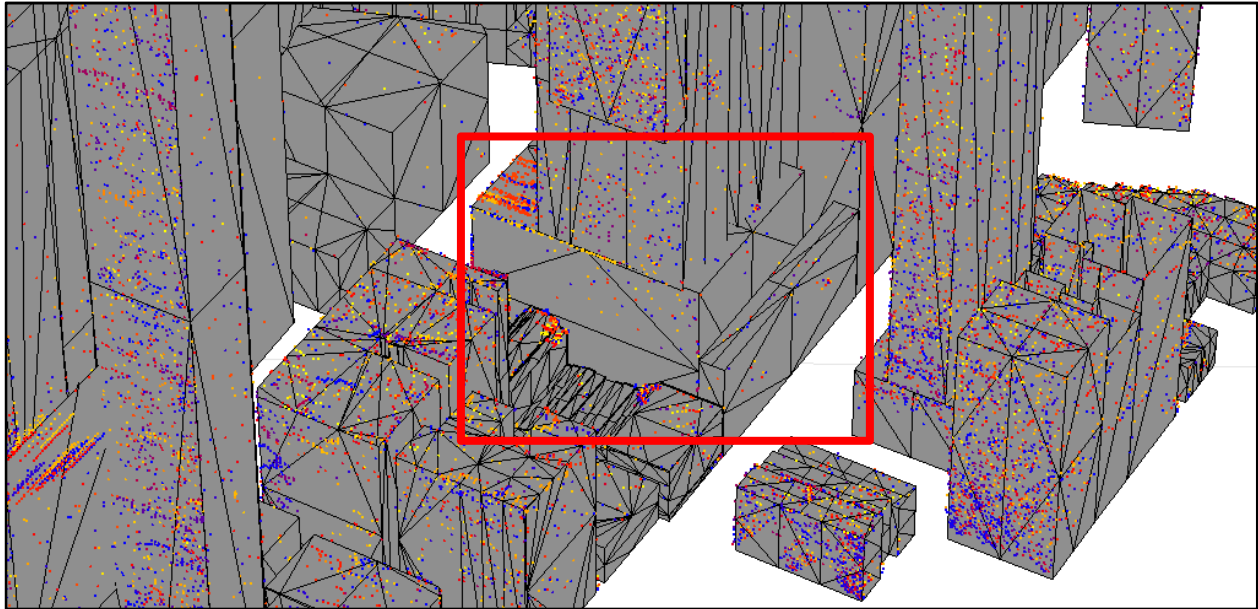


Figure 12: Annual Radiation Zoomed Model (North-East Elevation)

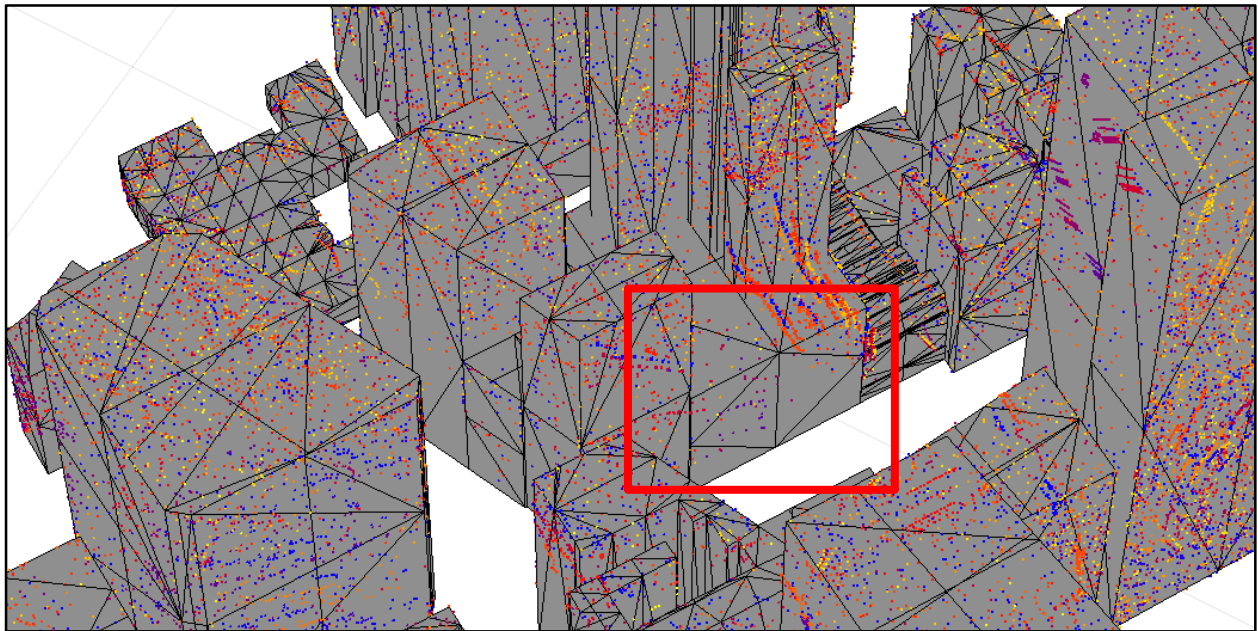


Figure 13: Annual Radiation Zoomed Model (South-West Elevation)



4.2 Annual Average Sunlight

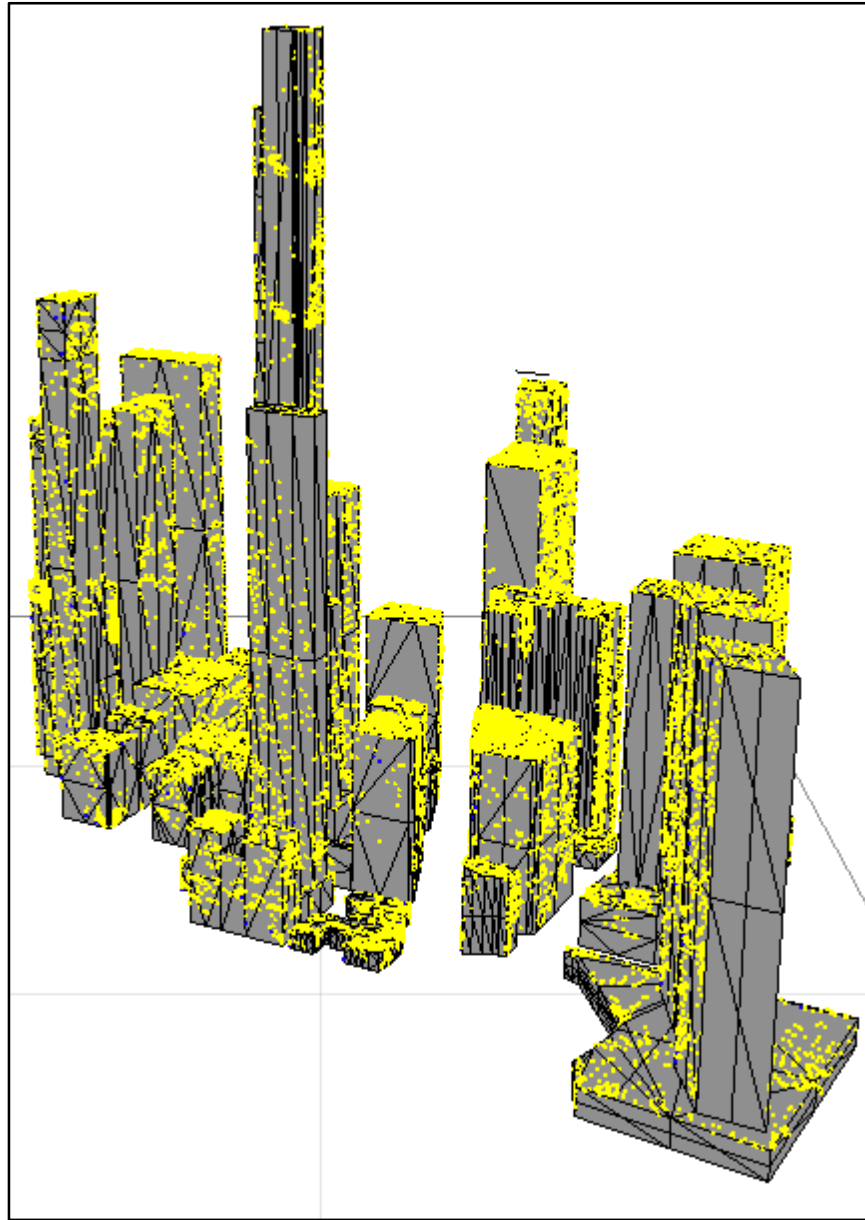


Figure 14: Annual Sunlight Overall Model (North Elevation)

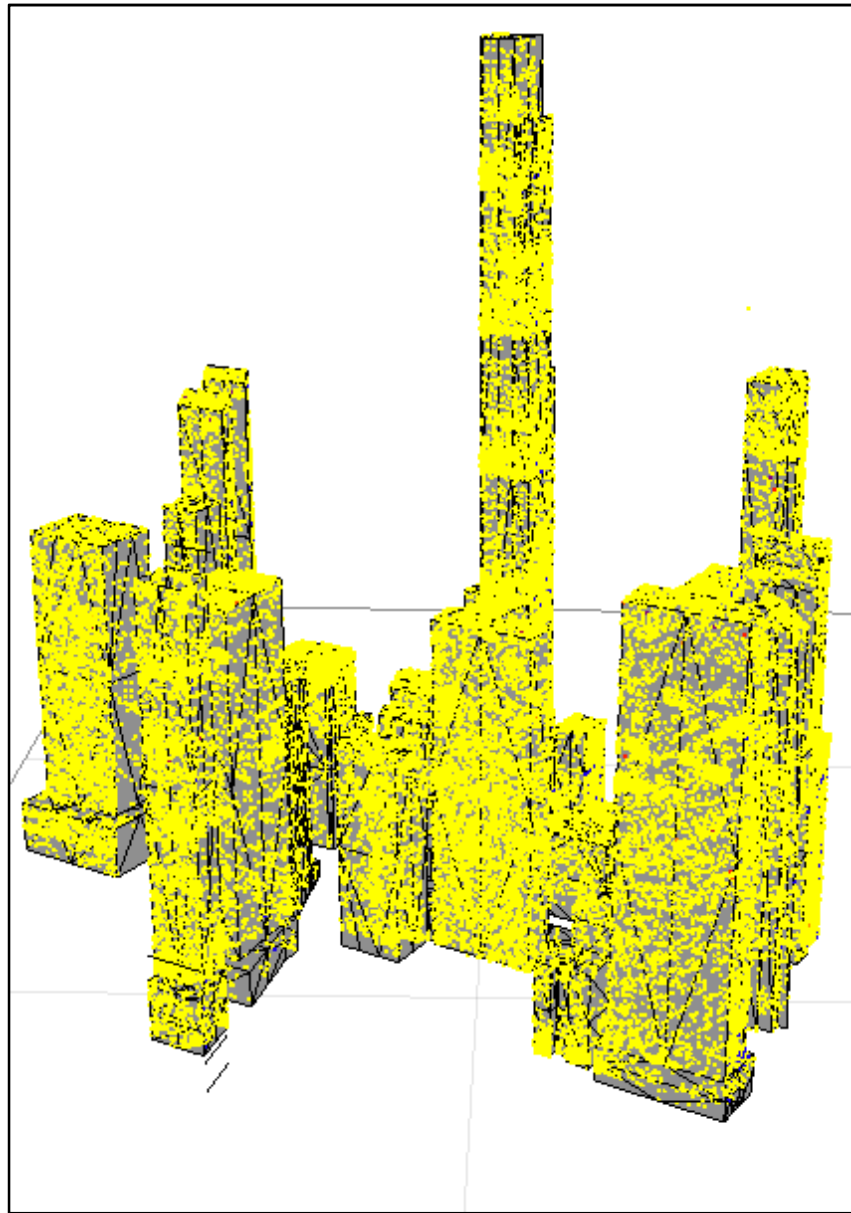


Figure 15: Annual Sunlight Overall Model (South Elevation)

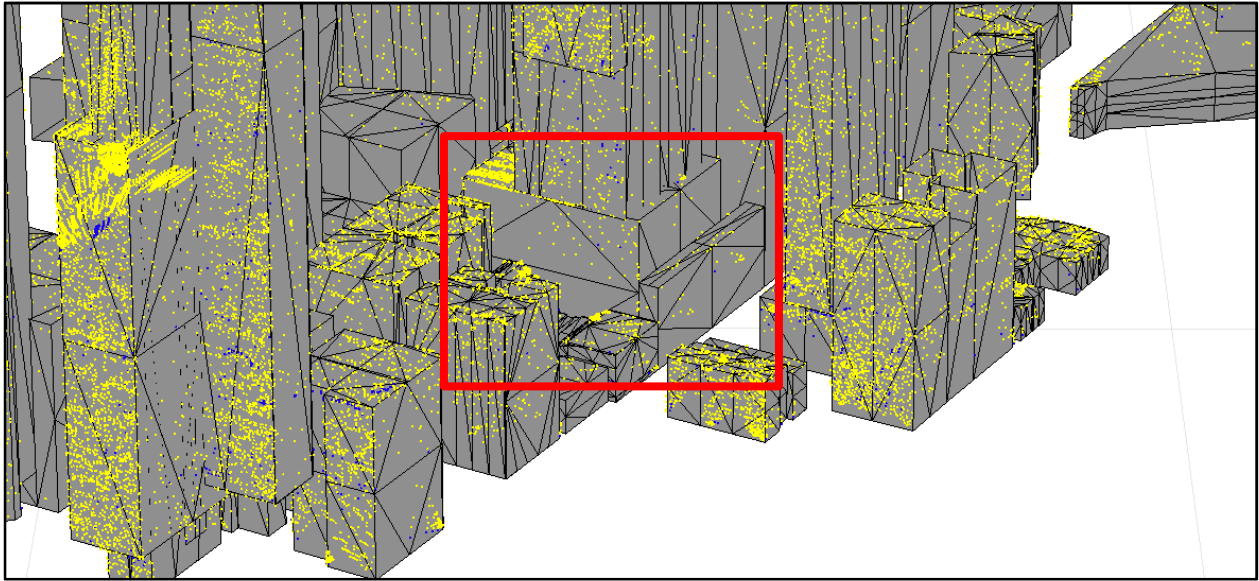


Figure 16: Annual Sunlight Zoomed Model (North-East Elevation)

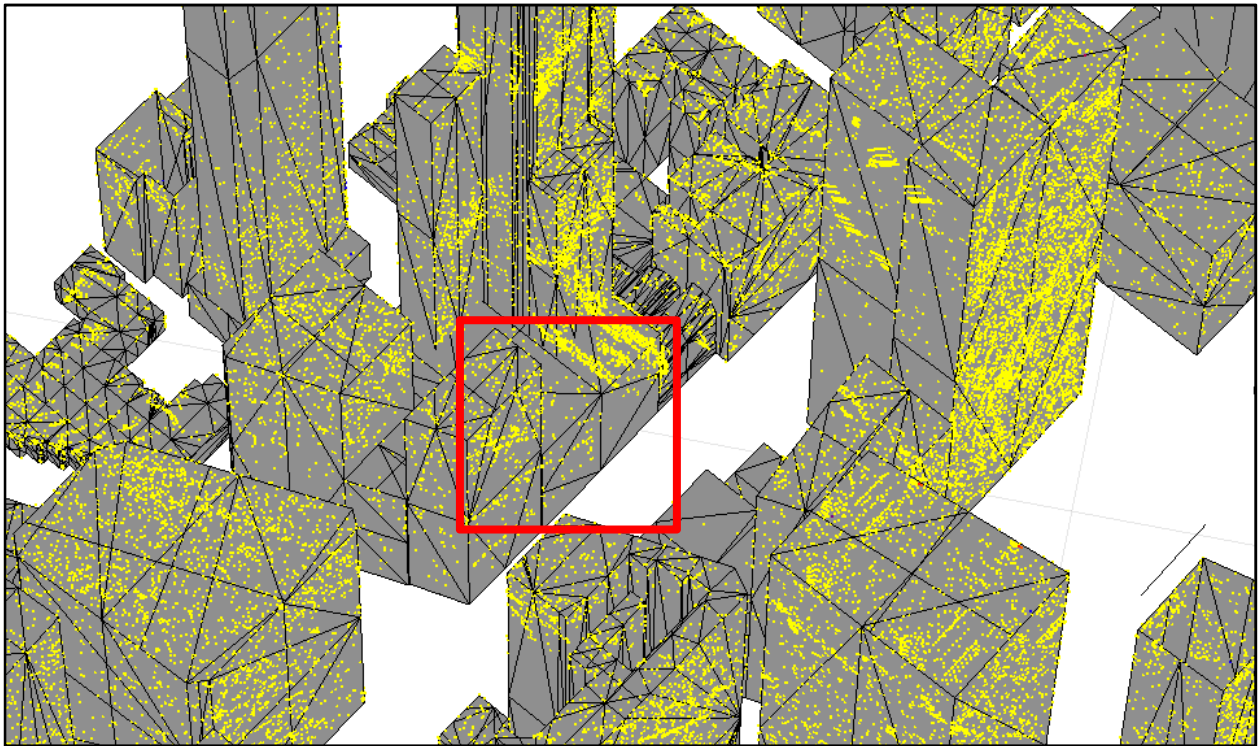


Figure 17: Annual Sunlight Zoomed Model (South-West Elevation)



4.3 Seasonal Shadow Analysis

	Winter	Spring	Summer	Autumn
Elevation	South	East	West	South
Date (Time)	January 27 (12:00)	May 21 (08:00)	July 6 (17:00)	August 19 (15:00)
External Temperature	47.3F (8.5C)	71.2F (21.8C)	75.4F (24.1C)	93.3F (34.1C)
Maximum Radiation (W/m2)	995	895	854	959

Table 1: Summary of Seasons

4.3.1 Winter Peak Radiation Shadow Distribution (January 27th 12:00)

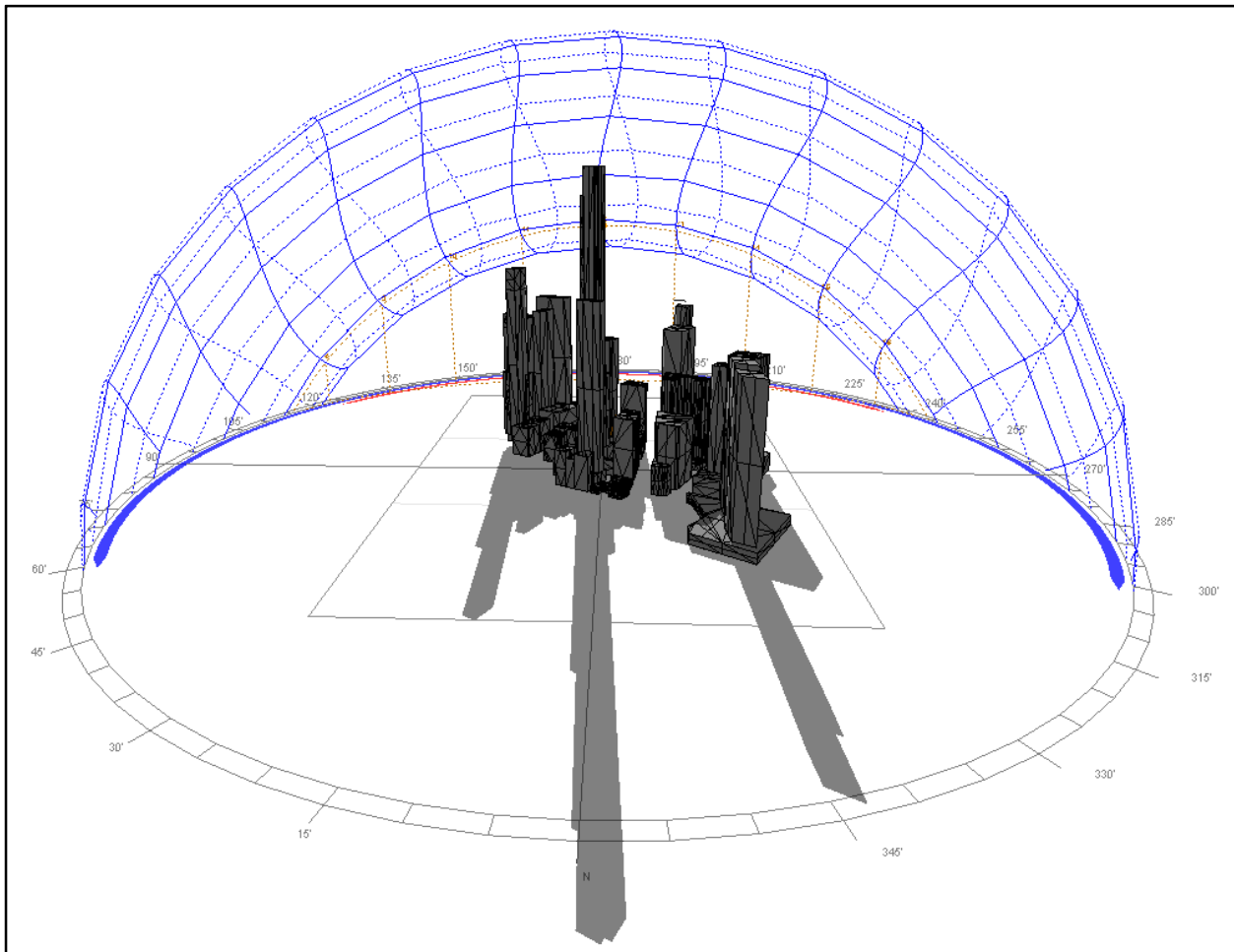


Figure 18: Overall Ecotect Winter Model

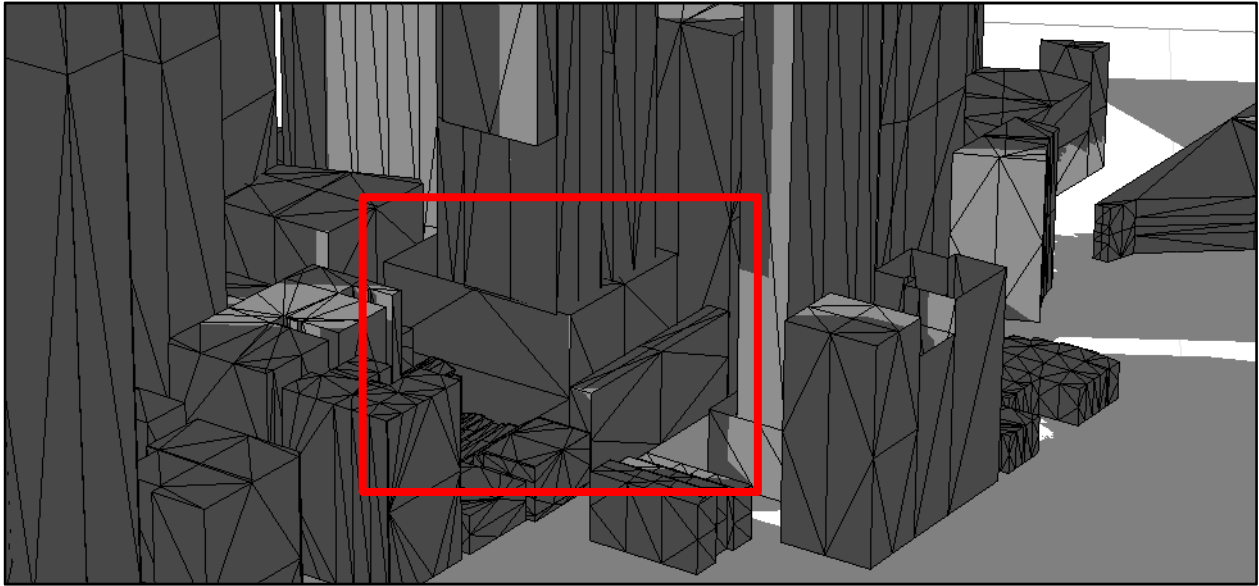


Figure 19: Shadow Distribution Winter (North-East Elevation)

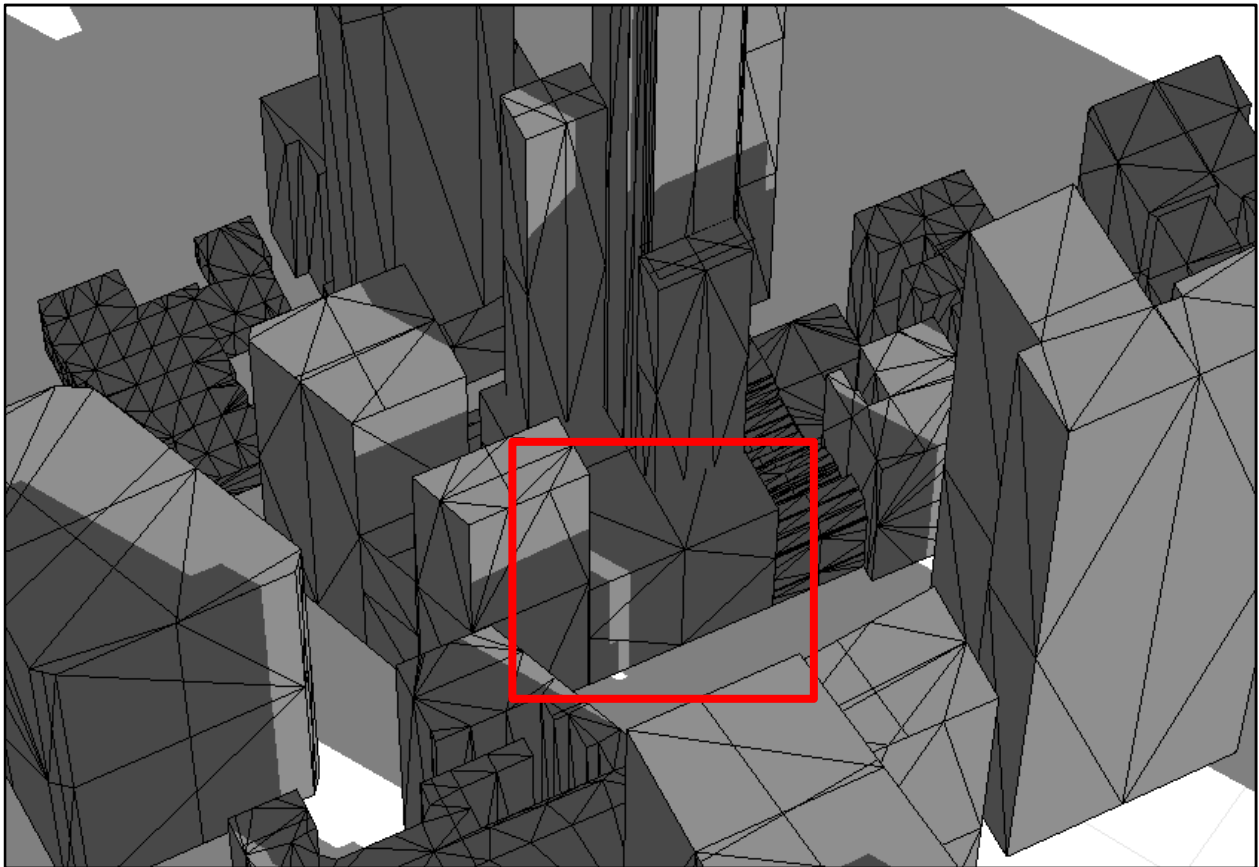


Figure 20: Shadow Distribution Winter (South-West Elevation)



4.3.2 Spring Peak Radiation Shadow Distribution (May 21st 8:00)

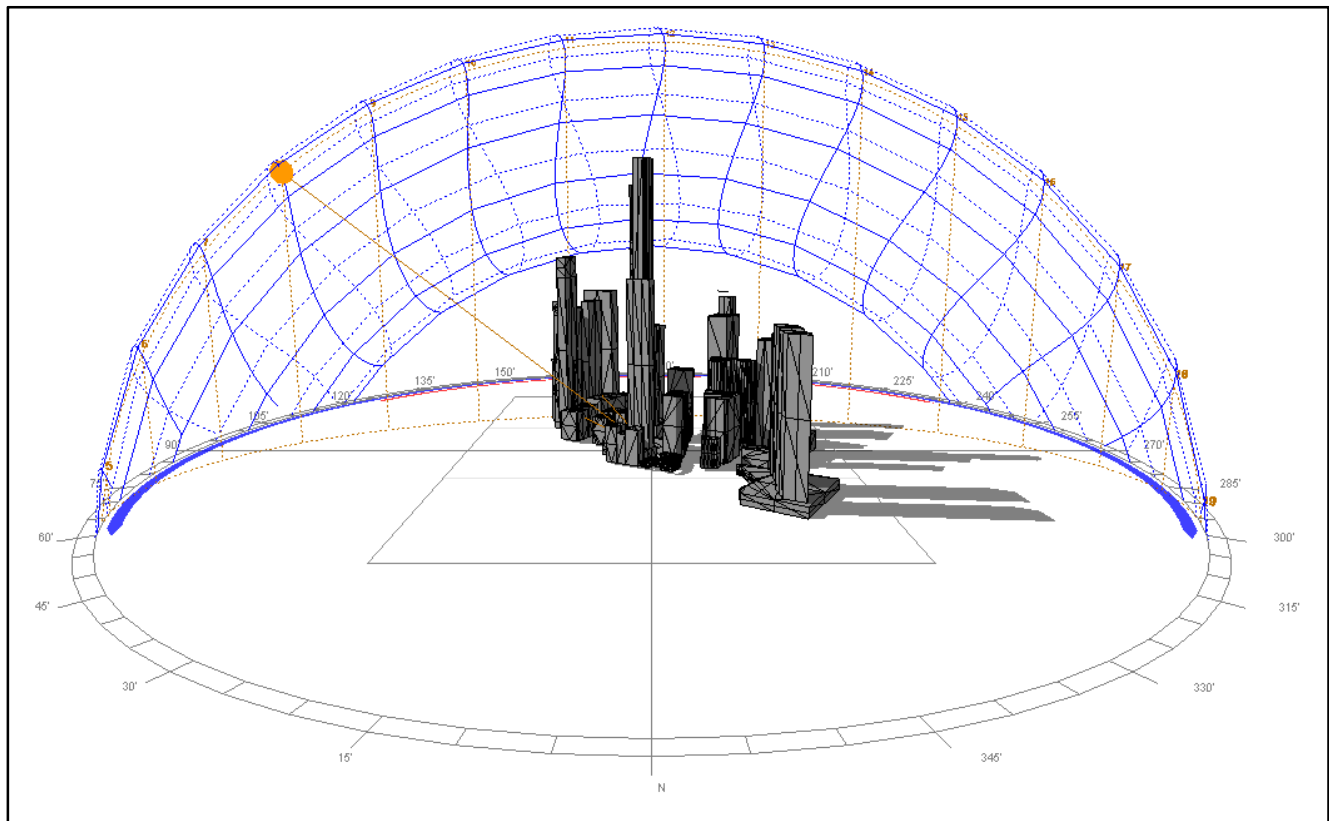


Figure 21: Overall Ecotect Spring Model

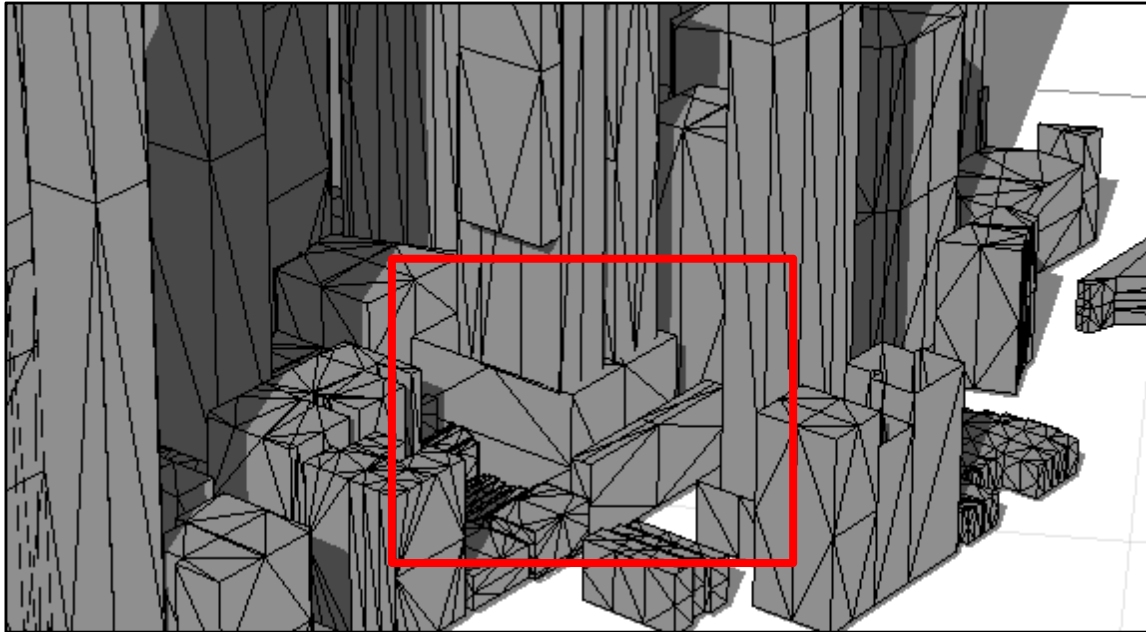


Figure 22: Shadow Distribution Spring (North-East Elevation)

Note that some buildings were not included in the northeastern region of this model because it's low radiation levels (refer to Figures 8, 10 and 12). The skyline of surrounding buildings would block much of this direct sunlight.

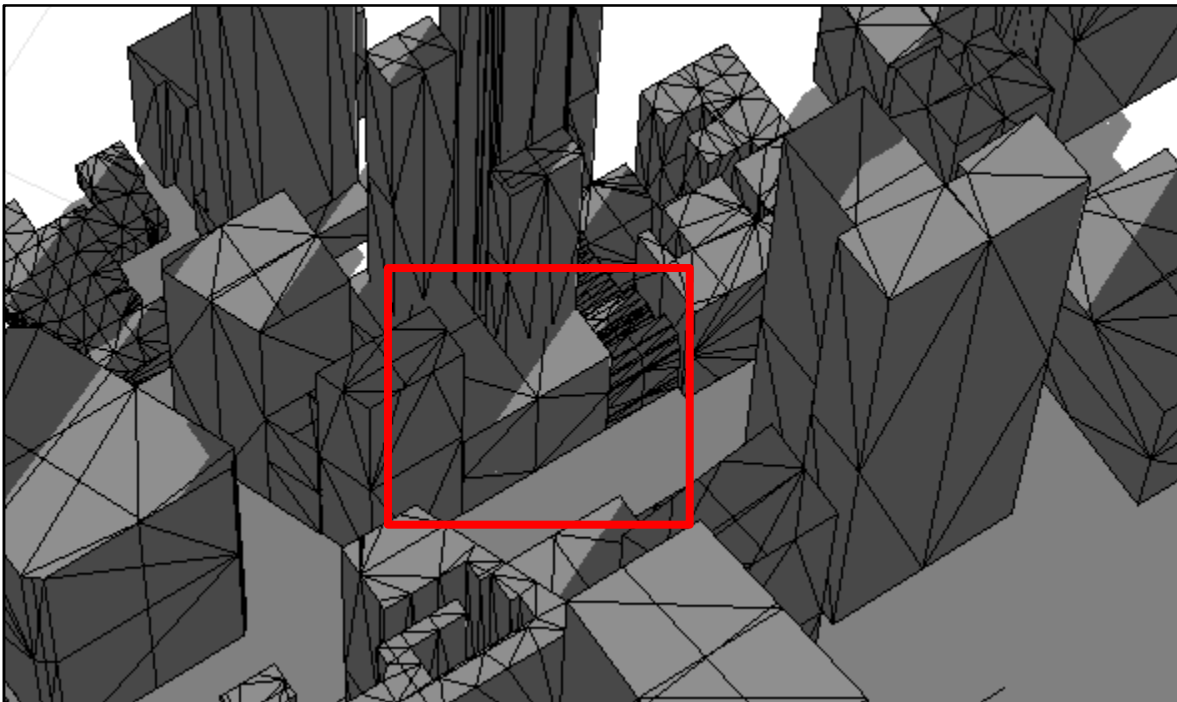


Figure 23: Shadow Distribution Spring (South-West Elevation)



4.3.3 Summer Peak Radiation Shadow Distribution (July 6th 17:00)

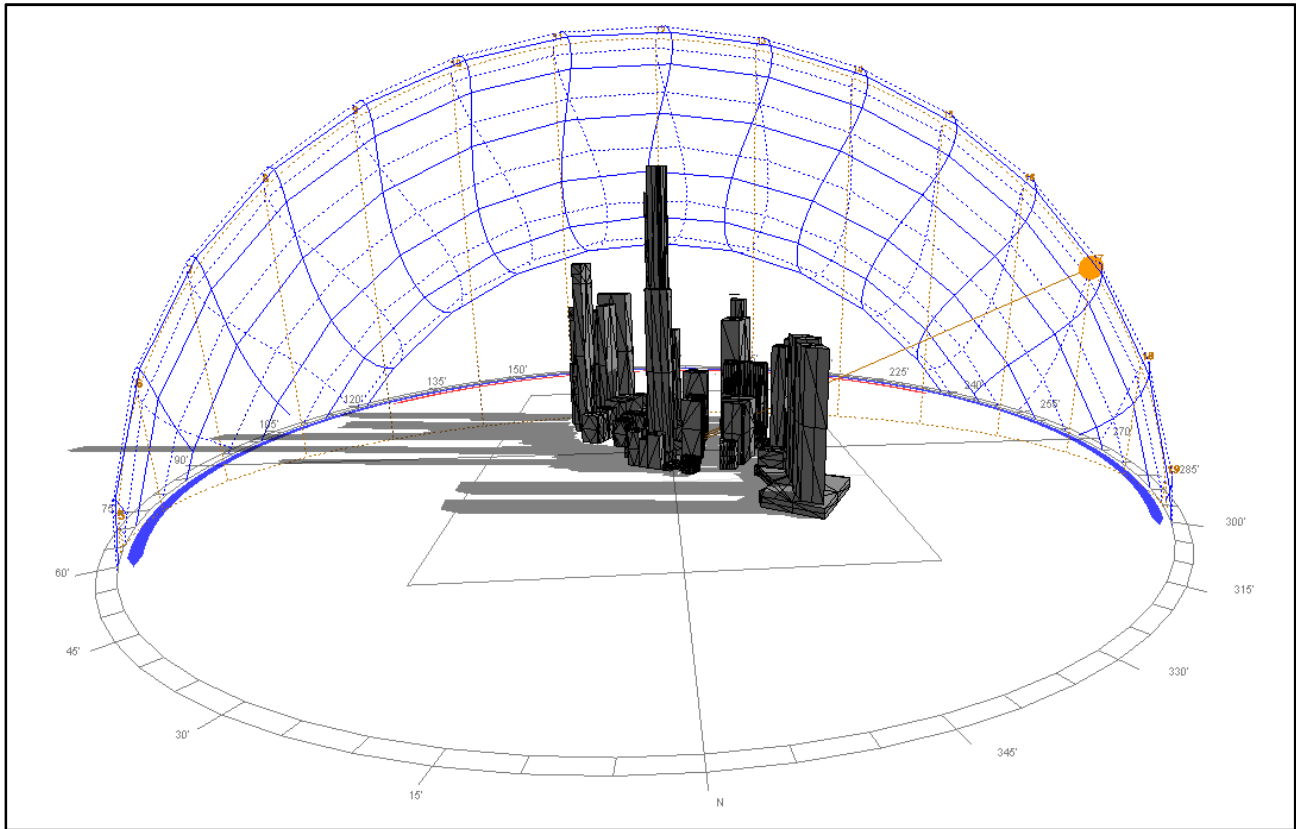


Figure 24: Overall Ecotect Summer Model

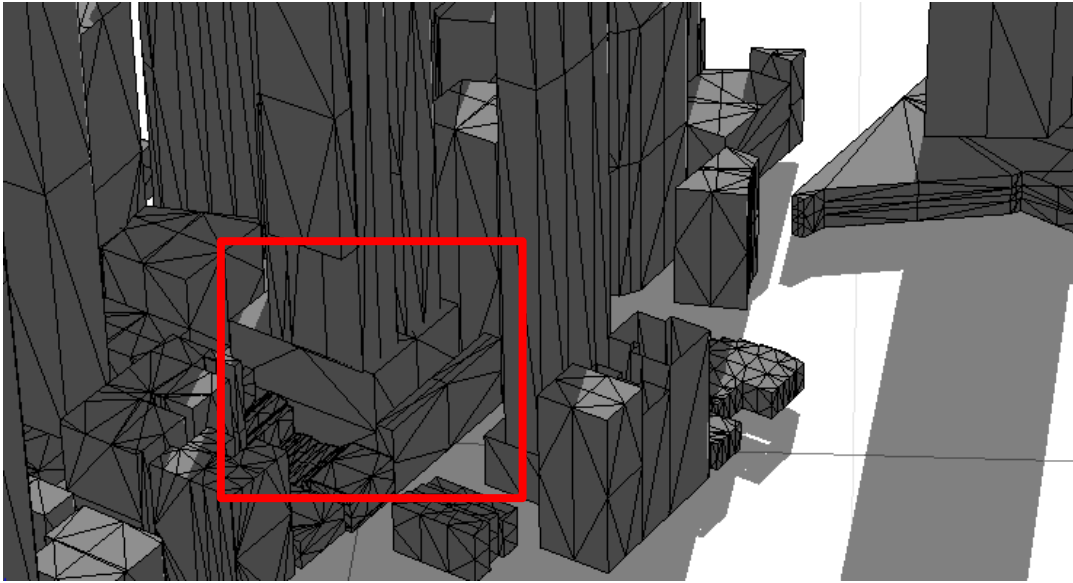


Figure 25: Shadow Distribution Summer (North-East Elevation)

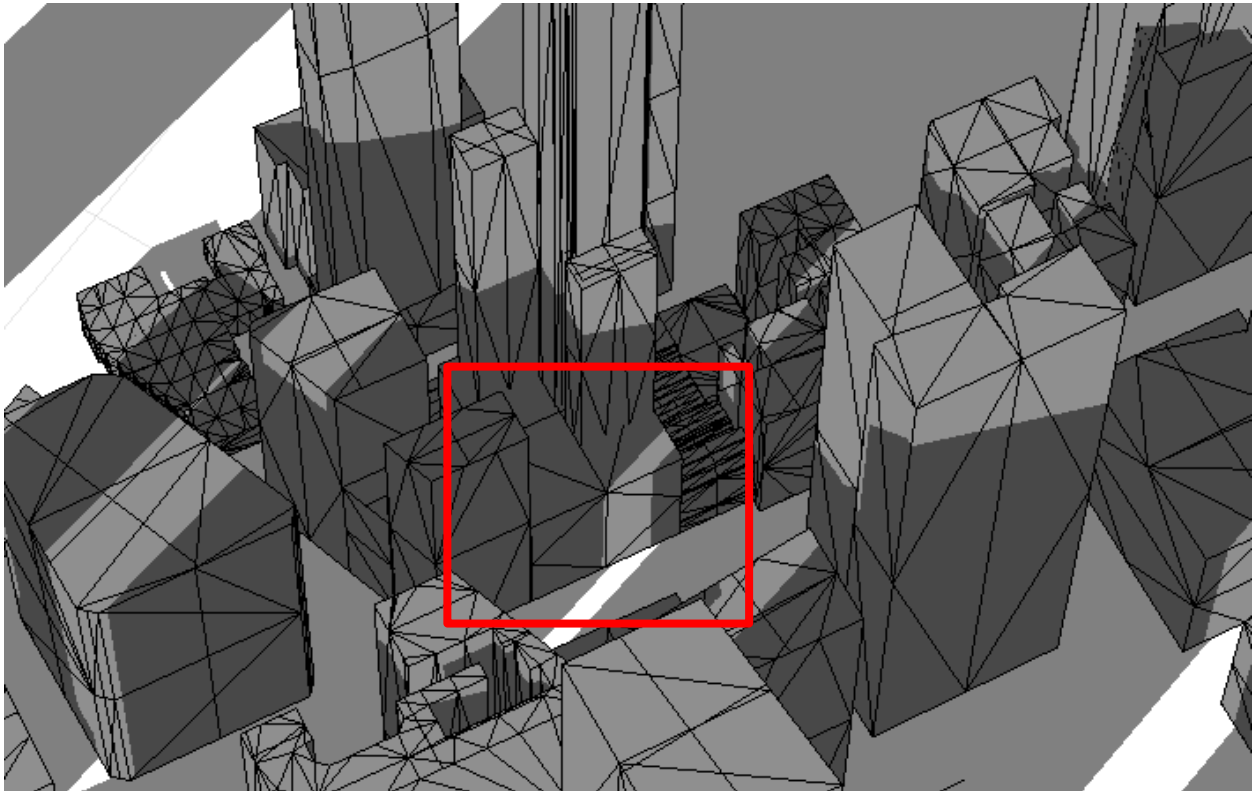


Figure 26: Shadow Distribution Summer (South-West Elevation)



4.3.4 Autumn Peak Radiation Shadow Distribution (November 25th 12:00)

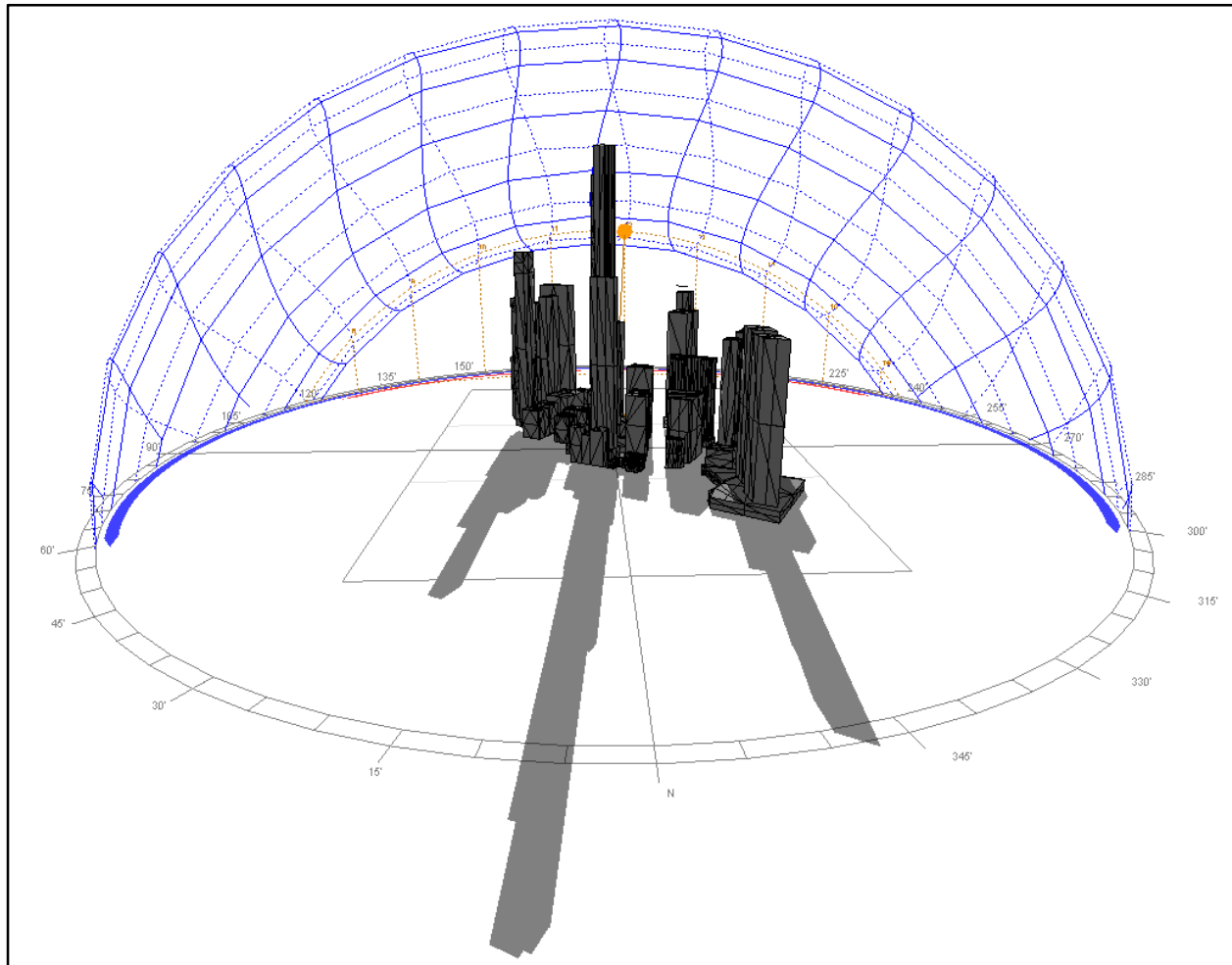


Figure 27: Overall Ecotect Autumn Model

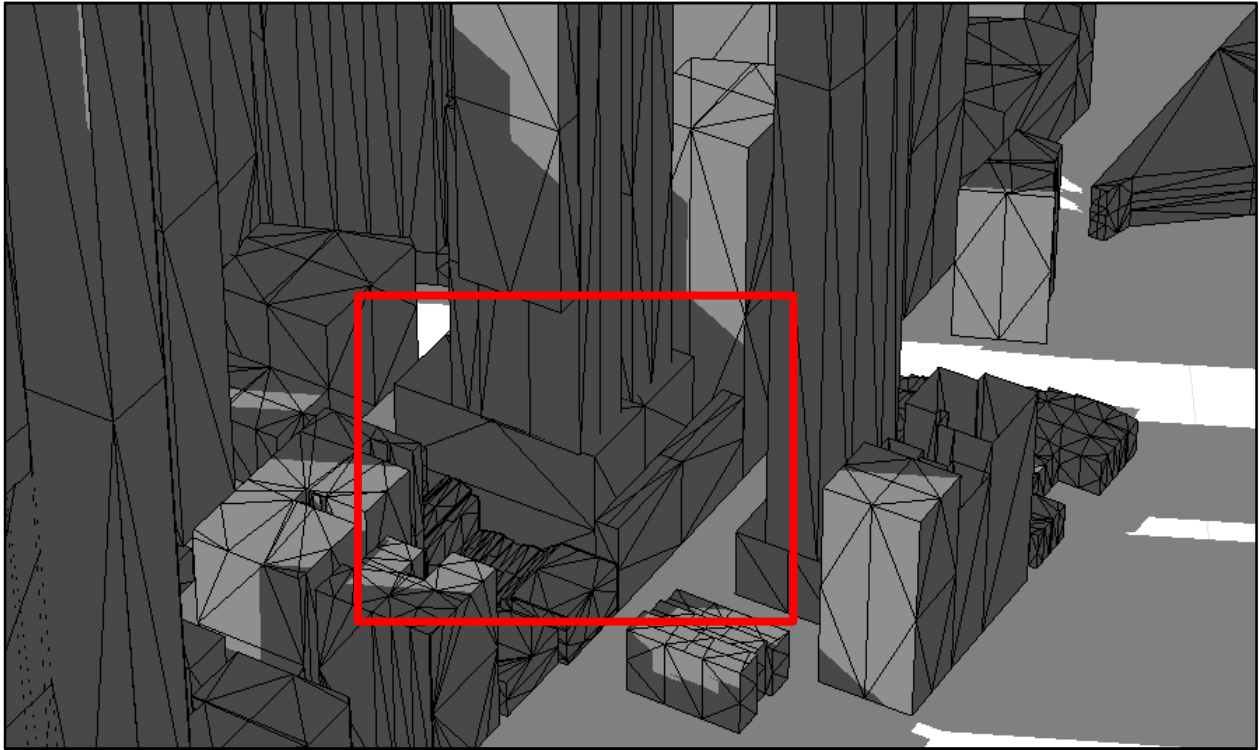


Figure 28: Shadow Distribution Autumn (North-East Elevation)

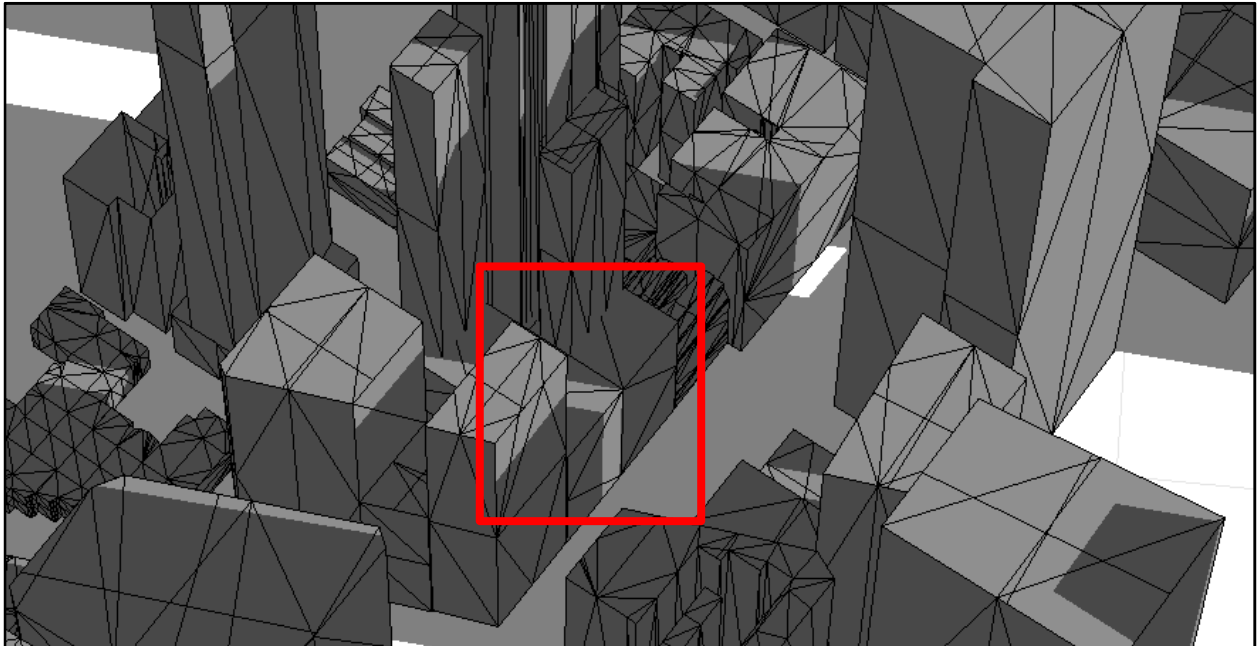


Figure 29: Shadow Distribution Autumn (South-West Elevation)



Submittal Transmittal

Detailed, Grouped by Each Number

217 West 57th Street Project # 11668500 Lend Lease (US) Construction LMB Inc.
200 Park Avenue, 9th Floor Tel: 212.592.6700 Fax:
New York, NY 10166

Date: 8/5/2015 Reference Number: 0528

Transmitted To: Joe Welker James Carpenter Design 145 Hudson Street New York, NY 10013 Tel: 212-431-4318 Fax:	Transmitted By: Alexa DiBuono Lend Lease (US) Construction LMB Inc. 200 Park Avenue 9th Floor New York, NY 10166 Tel: 212-592-6700 Fax: 212-592-6988
--	--

Qty	Submittal Package No	Description	Due Date	Package Action
16	0035 - 08 44 13 - 0	PNA Retail – Thermal Calculations W37	8/24/2015	

Transmitted For	Delivered Via	Tracking Number
For Approval	Prolog Converge	

Items	Qty	Description	Notes	Item Action
00735		System Design - Thermal Calculations - W37 Wall		

Cc:	Company Name	Contact Name	Copies	Notes

Remarks

Routing:
 Day 0 - LL to JCDA
 Day 3 - JCDA to SBP
 Day 5 - SBP to CAL
 Day 6 - CAL to AKF
 Day 8 – AKF to AJLP (Molly)
 Day 10 - AJLP to AAI
 Day 13 – AAI return to LL

Signature

Signed Date

Bleu Tech Montréal, Inc.

Membre du groupe / Member of the group PERMASTEELISA

TRANSMITTAL 90941-TRO22

4150 Autoroute Chomedey (A13), Laval, Quebec, Canada H7R 6E9

Tel: (450) 767-2890 Fax: (450) 767-2891

Attention Sadaf J. Khanthak
Company LEND LEASE (US)
200 PARK AVE, 9TH FLOOR
NEW YORK, NY 10166

Project: Hardrock
PNA Project No: 90941
Project area: Thermal Calculations Rev 00
From: Audrey-Anne Harvey
Date: August 4, 2015

We transmit:

Herewith
Under Separate Cover
Per your request

100

The following:

Print(s)
Original(s)
Spécifications
Color(s) to match
Literature
Sample(s)
Electronic file(s)

For:

Approval
Review
Information
Use
Records
Distribution
Other

100

Sent via:

Fedex
E-mail
Our messenger
Your messenger
Fax
PNA FTP Site
Prolog

□ □ □ □ □ ■

Message:

* If enclosures are not as noted, please inform us immediately

[illegible]

Signature:



PERMASTEELISA NORTH AMERICA

217 WEST 57TH STREET

HARDROCK

NEW YORK CITY, NY


Lend Lease
LEND LEASE (US) CONSTRUCTION LMB, INC.

RECEIVED
8/5/15

0035-08 44 13-0
SUBMITTAL NUMBER

PODIUM WALL PACKAGE - W37 WALL

SYSTEM DESIGN - THERMAL CALCULATIONS

DOC NAME: 90941TC002-00-150804PMG

JOB NO: 14.04	SUBMISSION NO: 1
CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONING, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.	
<input type="checkbox"/> APPROVED <input checked="" type="checkbox"/> APPROVED AS NOTED, RESUBMIT FOR RECORD <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> REJECTED	
CHECKED BY: JRW	DATE: Aug 7, 2015
JAMES CARPENTER DESIGN ASSOCIATES 145 HUDSON STREET 4TH FLOOR NEW YORK, NEW YORK 10013 TEL: (212) 431-4318 FAX: (212) 431-4425 EMAIL: INFO@JCDAINC.COM	

ADAMSON ASSOCIATES ARCHITECTS

ADRIAN SMITH + GORDON GILL ARCHITECTURE

EXTELL DEVELOPMENT COMPANY

JAMES CARPENTER DESIGN ASSOCIATES

LEND LEASE

NOT REVIEWED
 CAL-jmf

Rev.	Date	Description	Prepared by	Checked by
00	08/04/2015	First Submission	P.M. Gamache	P.Collin





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1 SUMMARY

THERM 6.3 software was used to analyze the two-dimensional heat transfer through the frame and frame edge areas. The frame U-values have been derived using THERM 6.3 according to NFRC standard.

Main results are reported in the following:

Wall Type	Overall U - Factor BTU/(h·ft ² ·°F)	Condensation Resistance (%)
WT-37	0.22	35.8

Table 1: Summary of Results



2 THERM KEY

Material	Thermal Conductivity (Btu/h.ft ² .F)	Model Color
Aluminum Alloy (Painted)	92.5	
Aluminum Alloy (Painted) 6%*	5.56	
Aluminum Alloy (Painted) 10%*	9.25	
Ethylene Propylene Diene Monomer (EPDM)	0.14	
Foam Weather Stripping	0.017	
Frame Cavity NFRC	Calculated by THERM	
Frame Cavity Slightly Ventilated	Calculated by THERM	
Insulation	0.02	
Polyethylene / Polythene HD (High Density)	0.29	
Polyvinylchloride (PVC) /Vinyl – Rigid 12.5%*	0.024	
Polyvinylchloride (PVC) /Vinyl – Rigid 12.5% / Foam Weather Stripping*	0.027	
Silicone Gasket	0.20	
Silicone Sealant	0.20	
Steel – Galvanized Sheet (0.14%C)	35.9	

Table 2: THERM Material Color Key

*Example of calculation for PVC 12.5% / Air 87.5%: Given a thermal conductivity of 0.024 W/m.K for air and 0.170 W/m.K for PVC, an average thermal conductivity can be calculated based on an area weighted method. The calculation can be seen below.

$$\left(12.5\% * 0.170 \frac{W}{m.K}\right) + \left(87.5\% * 0.024 \frac{W}{m.K}\right) = 0.04255 \frac{W}{m.K} = 0.024 \frac{Btu}{h.ft^2.F}$$



3 BOUNDARY CONDITIONS

Calculation	Standard	Cold-Side Environmental Temperature	Warm-Side Environmental Temperature	External Wind Speed	External Heat Transfer Coefficient	Internal Relative Humidity	Internal Heat Transfer Coefficient
Thermal Transmittance	NFRC (100-2010)	-0.4°F	69.8°F	12.3mph	4.58 Btu/h-ft²-F	----	0.53 Btu/h-ft²-F
Condensation Assessment	Project Specification (12/18/14)	13.0°F	72.0°F	15mph	5.43 Btu/hft²-F	35%	0.40 Btu/h-ft²-F

Table 3: Boundary Conditions



4 GENERAL DESCRIPTION

This report must be read in conjunction with PermaSteelisa's drawings dated on August 4th, 2015. The thermal performance of the typical façade type is stated in the following report. The overall U-value, as well as Condensation Assessment of the curtain wall panels have been performed according to the (NFRC), (ASHRAE) and (ISO) Standards.

Typical unit elevation is shown in the following figure.

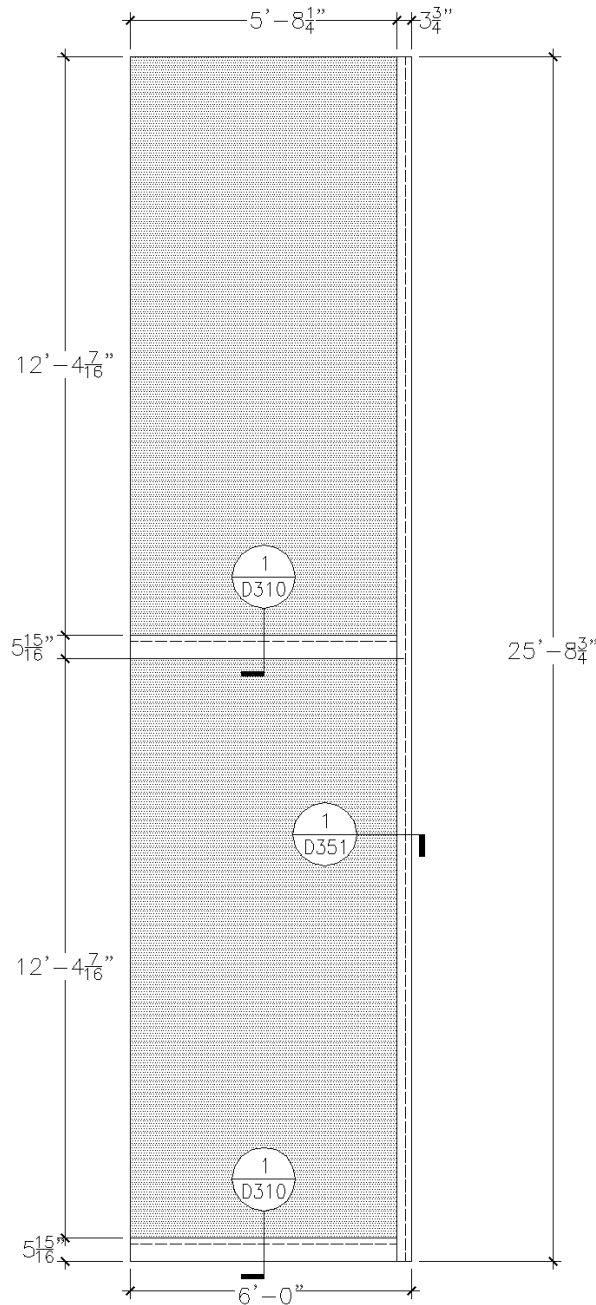


Figure 1: Wall Type 37 Elevation (E008)



5 THERMAL TRANSMITTANCE

5.1 Thermal Transmittance Calculation Method

The heat transfer through the frame and glazing is assessed as described in the thermal guide (NFRC and ISO15099).

There are then the following thermal transmittances (U-values):

- Centre-panel U-value U_{sp} , which is assumed to apply to the whole of the spandrel panel (defined in section 5.2.1);
- Frame U-value U_f (defined in section 5.3);
- Edge U-value U_{edge1} , U_{edge2} , to take into account the heat transfer due to the interaction (edge effect) between the framing and spandrel panel (defined in section 5.3).

The overall U-value of the curtain wall is then calculated by using the principle of the area weighting of U-values of the frames and spandrel (as shown in section 5.4).



5.2 Center U-Value

One-dimensional center U-value calculation has been performed for the spandrel.

5.2.1 Spandrel

In the following, the THERM model and results are presented graphically

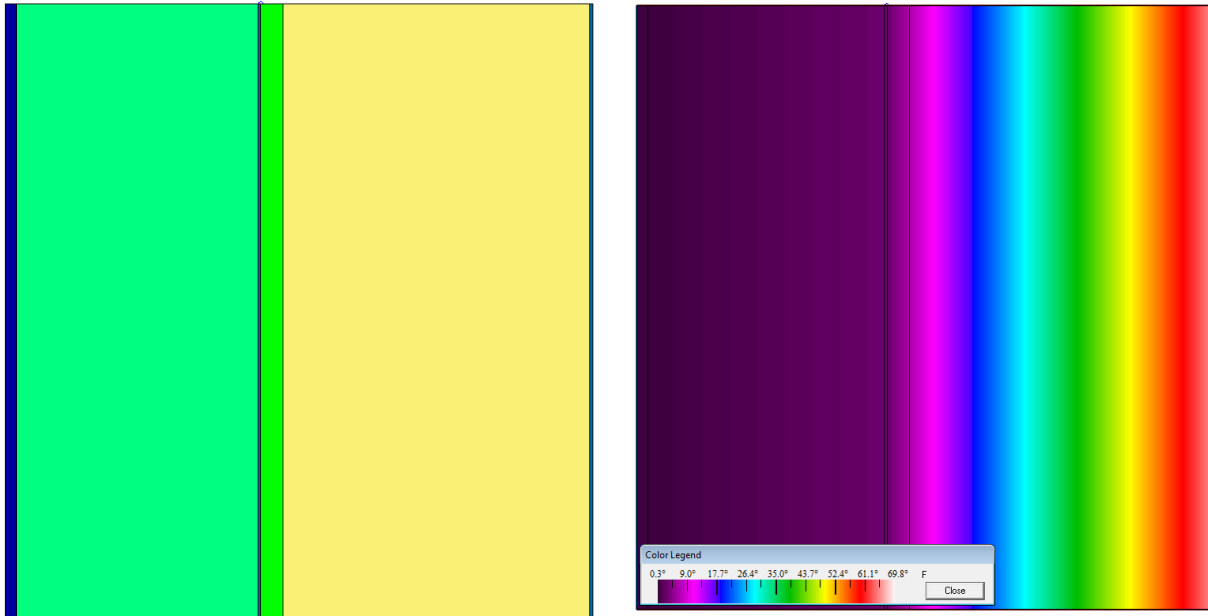


Figure 2: Spandrel section: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Standard	Spandrel Characteristics	Value
NFRC 100 - 2010	Thermal Transmittance (Btu/h.ft ² .F)	0.050

Table 4: 1 Dimensional Analysis Summary

NOTE: Above information for was provided in specifications dated April 24th, 2015.



5.3 Frame U-Value

The frames have been modeled by means of 2-dimensional FEM analysis, using the THERM program (version 6.3) by the Lawrence Berkeley National Laboratory. Material properties have been assigned as per THERM internal library.

The projected width of the solid part of the framing (excluding the glazing gaskets) is measured from the inside. For each of the models, the projected width of the frames is stated along with the frame U-value.

5.3.1 Mullion (1/D351)

In the following, the THERM model and results are presented graphically

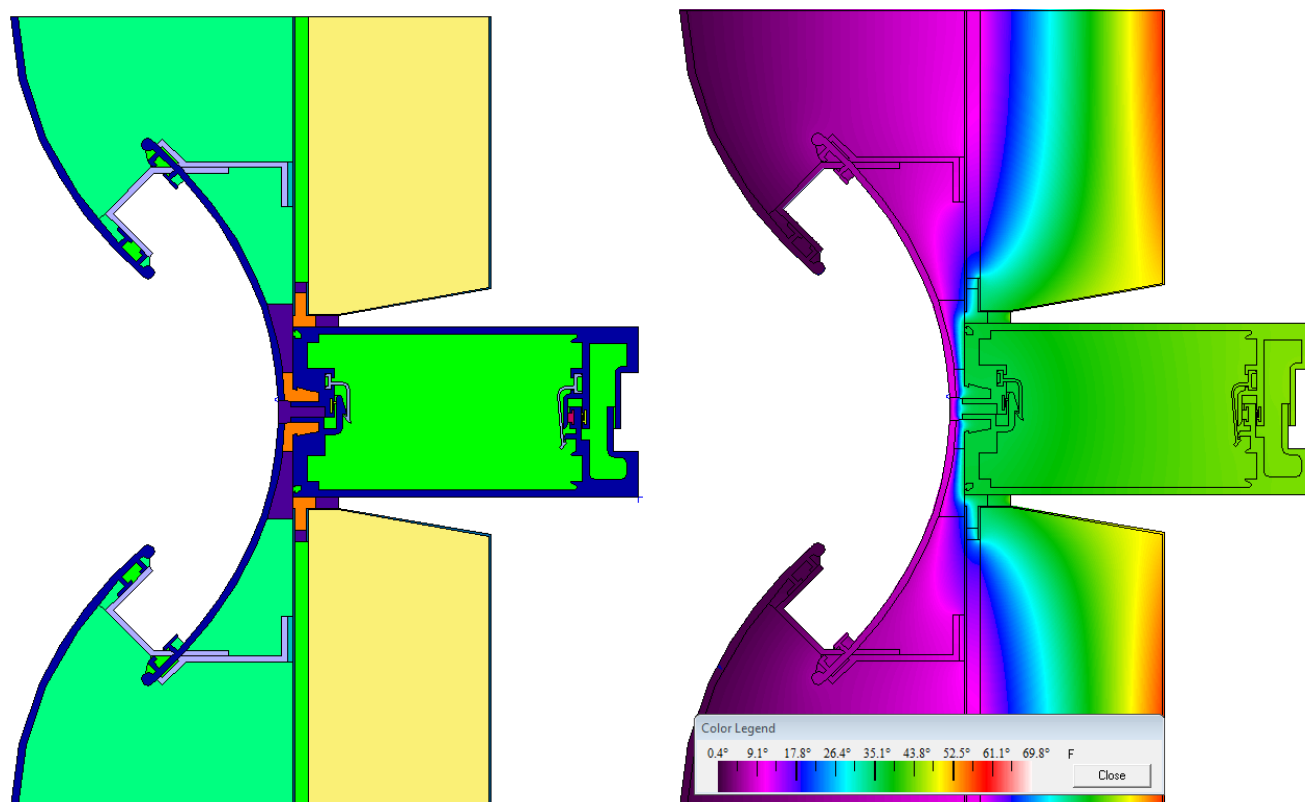


Figure 3: Mullion 1/D351: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.87 \text{ Btu/h.ft}^2.\text{F}$	$U_{\text{male}} = 2.21 \text{ Btu/h.ft}^2.\text{F}$
		$U_{\text{female}} = 1.64 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 3.75 \text{ in}$	$L_{\text{male}} = 1.51 \text{ in}$
		$L_{\text{female}} = 2.24 \text{ in}$
Edge Effect Male Side	$U_{e1} = 0.37 \text{ Btu/h.ft}^2.\text{F}$	
Edge Effect Female Side	$U_{e2} = 0.37 \text{ Btu/h.ft}^2.\text{F}$	



5.3.2 Stack Joint (1/D310)

In the following, the THERM model and results are presented graphically

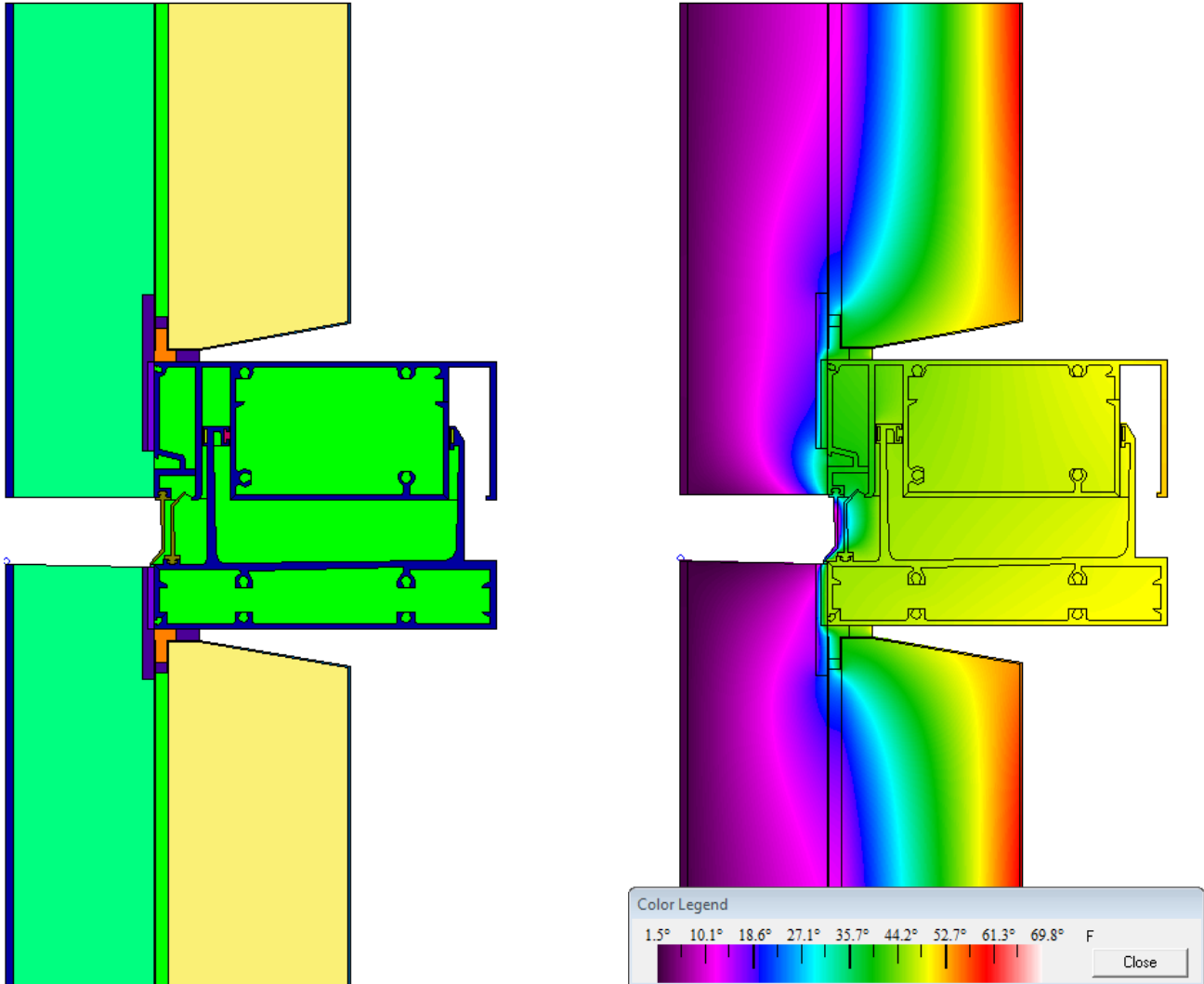


Figure 4: Stack Joint 1/D310: Model Geometry (Left) and Temperature Distribution (Right)
(External Temperature -0.4°F - Internal Temperature 69.8°F)

Results of Calculation:

Two Dimensional Frame Thermal Transmittances	$U_f = 1.23 \text{ Btu/h.ft}^2.\text{F}$	$U_{\text{gutter}} = 0.75 \text{ Btu/h.ft}^2.\text{F}$
		$U_{\text{sill}} = 0.126 \text{ Btu/h.ft}^2.\text{F}$
Frame Projected Width	$L_f = 5.96 \text{ in}$	$L_{\text{gutter}} = 4.53 \text{ in}$
		$L_{\text{sill}} = 3.09 \text{ in}$
Edge Effect Gutter Side	$U_{e1} = 0.32 \text{ Btu/h.ft}^2.\text{F}$	
Edge Effect Sill Side	$U_{e2} = 0.32 \text{ Btu/h.ft}^2.\text{F}$	



5.4 Overall U-Value

Area weighting of the U-values of frame sections and center-of-spandrel is used to calculate the overall frame U-value for WT-37 calculation.

Components	U-Value (Btu/h.ft ² .F)	Area (in ²)	Area (ft ²)	U * A
Mullion Spandrel Area	1.87	1157.81	8.04	15.06
Left/Male Edge	0.37	729.58	5.07	1.88
Right/Female Edge	0.37	729.58	5.07	1.88
Stack	1.23	813.54	5.65	6.94
Sill Edge	0.32	328.75	2.28	0.74
Gutter Edge	0.32	328.75	2.28	0.72
Spandrel	0.05	18142.00	125.99	6.35
Totals	0.00	22230.00	154.38	33.57

Overall U-Value	0.22 (Btu/h.ft ² .F)
------------------------	--

Table 5: Overall Thermal Transmittance of Wall Type 37



6 CONDENSATION ASSESSMENT

The minimum internal surface temperature of the curtain wall has been assessed for each model using THERM 6.3 software using the specified Boundary Conditions. The absolute Minimum Temperature in the surface was found to be $t_{si,min}=43.5^{\circ}\text{F}$ on the frame mullion (see following table).

Components	Dew Point Temperature ($^{\circ}\text{F}$)	Minimum Surface Temperature ($^{\circ}\text{F}$)	Maximum Allowed Relative Humidity (%)
1/D351 Mullion	42.7	43.5	35.8
1/D310 Stack Joint		47.9	42.4

Table 6: Condensation Assessment for Typical Details

With internal temperature of 72°F and Relative Humidity of 35% RH the Dew Point Temperature is 42.7°F . For the given Boundary Conditions, condensation will not occur on the interior surface of the façade and the performance is acceptable. Following THERM models of some critical sections are presented along with the Dew Point Isothermal Line as well as a temperature distribution for the specified Boundary Conditions.

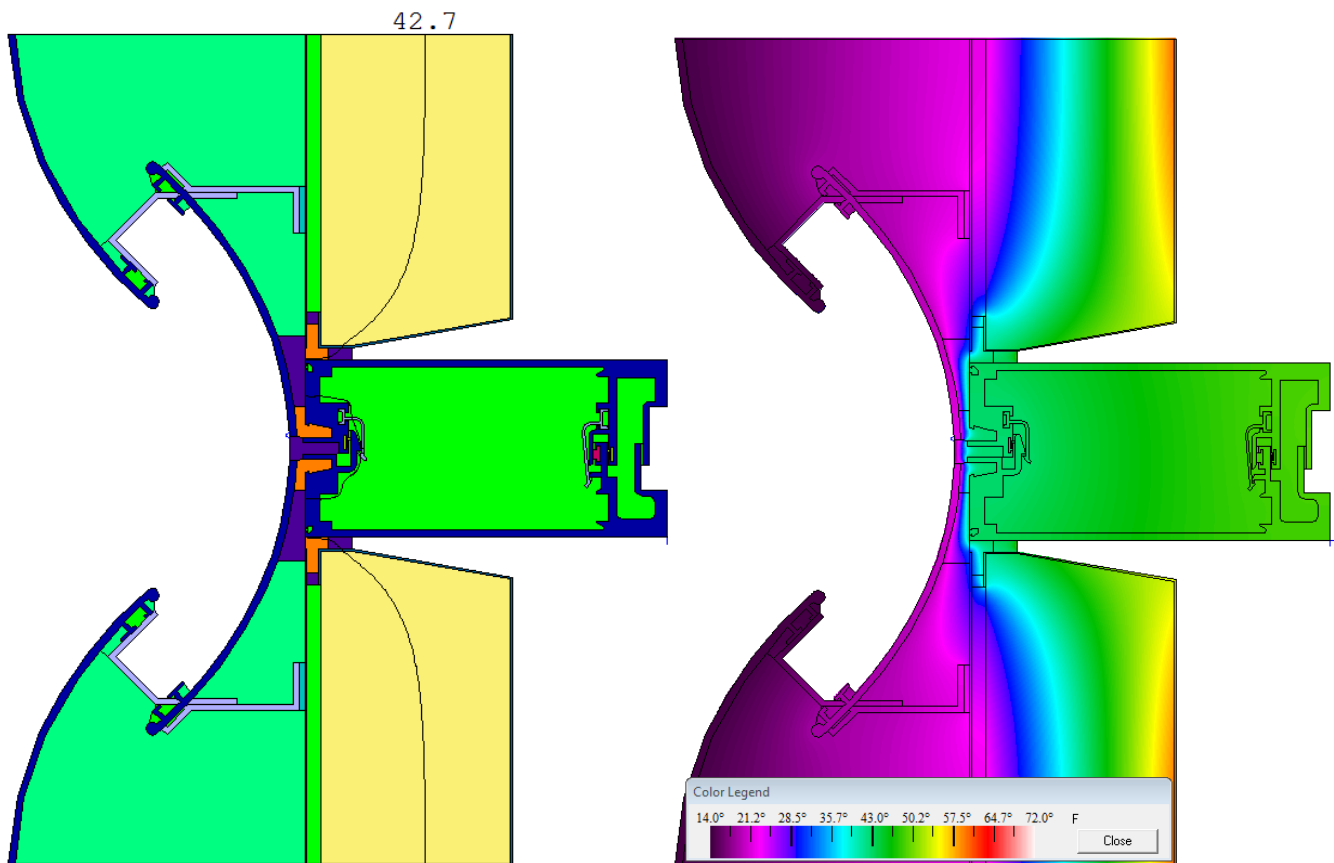


Figure 5: 1/D351 Mullion: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 13°F - Internal Temperature 72°F)

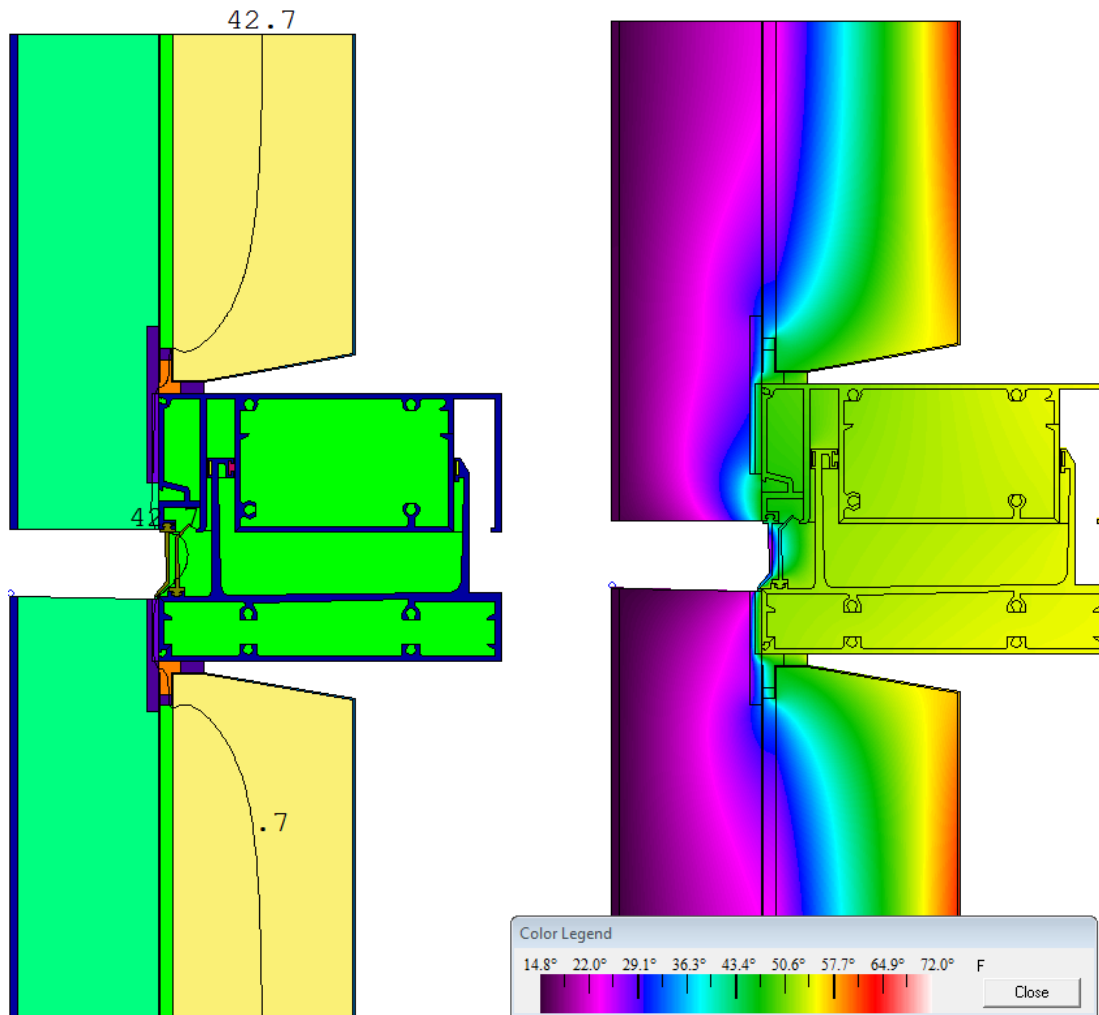


Figure 6: 1/D310 Stack Joint: Model Geometry with Dew Point Line (Left) and Temperature Distribution (Right)
(External Temperature 13°F - Internal Temperature 72°F)



REFERENCES

ASHRAE	ASHRAE Handbook of Fundamentals 1998-2001, American Society of Heating, Refrigerating, and Air-Conditioning Engineering, Atlanta, GA, USA, 2004.
ISO 6946: 2007	Building components and building elements - Thermal resistance and thermal transmittance - Calculation method
ISO 10077-1: 2006	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 1: General
ISO 10077-2: 2003	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames
ISO 10211: 2007	Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations
ISO 13788:2001	Hydrothermal performance of building components and building elements - Internal surface temperature to avoid critical surface humidity and interstitial condensation - Calculation methods
ISO 15099: 2003	Thermal performance of windows, doors and shading devices - Detailed calculations
NFRC 100: 2010	Procedure for Determining Fenestration Product U-Factors.
THERM	THERM 6.3 Program description. Windows and Daylighting Group. Lawrence Berkeley National Laboratory, 2002.



5.4 Overall U-Value

Area weighting of the U-values of frame sections and center-of-spandrel is used to calculate the overall frame U-value for WT-37 calculation.

Components	U-Value (Btu/h.ft ² .F)	Area (in ²)	Area (ft ²)	U * A
Mullion Spandrel Area	1.87	1157.81	8.04	15.06
Left/Male Edge	0.37	729.58	5.07	1.88
Right/Female Edge	0.37	729.58	5.07	1.88
Stack	1.23	813.54	5.65	6.94
Sill Edge	0.32	328.75	2.28	0.74
Gutter Edge	0.32	328.75	2.28	0.72
Spandrel	0.05	18142.00	125.99	6.35
Totals	0.00	22230.00	154.38	33.57

Overall U-Value	0.22 (Btu/h.ft ² .F)
------------------------	--

Table 5: Overall Thermal Transmittance of Wall Type 37



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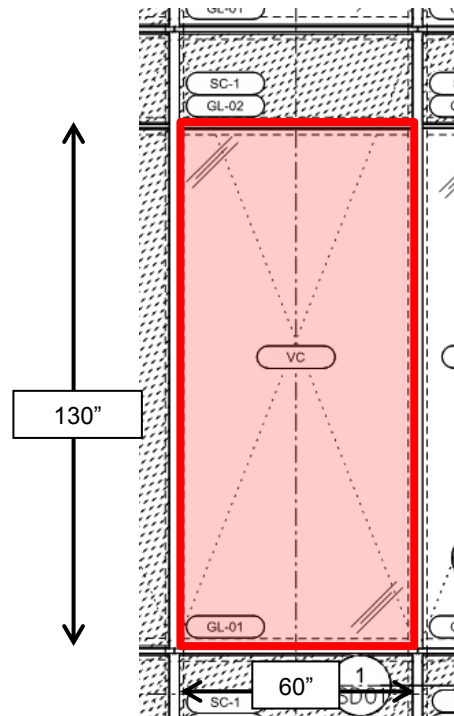


Figure 18: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Spandrel	1.25	601.90	4.18	5.22
Left Section	0.23	308.13	2.14	0.49
Right Section	0.37	308.13	2.14	0.79
Transom - Spandrel / Vision	0.98	235.32	1.63	1.60
Top Section	0.27	132.18	0.92	0.25
Bottom Section	0.35	132.18	0.92	0.32
Vision Glass	0.28	6082.18	42.24	11.83
Totals		7800	54	20.51

Vision U-Value 0.38 [Btu/h.ft².F]

Table 6: Wall Type A Vision U-Value



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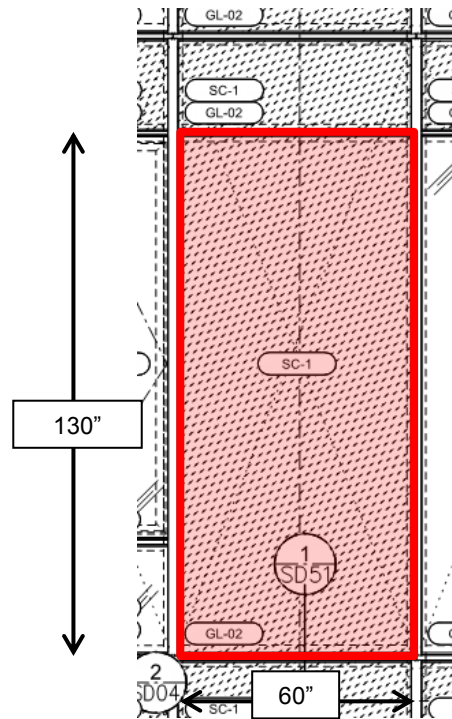


Figure 19: Typical Spandrel Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Dart Mullion - Spandrel / Spandrel	0.14	601.90	4.18	0.59
<i>Left Section</i>	0.14	308.13	2.14	0.30
<i>Right Section</i>	0.14	308.13	2.14	0.30
Transom - Spandrel / Spandrel	0.55	235.32	1.63	0.90
<i>Top Section</i>	0.35	132.18	0.92	0.32
<i>Bottom Section</i>	0.35	132.18	0.92	0.32
Spandrel Region	0.05	6082.18	42.24	2.11
Totals		7800	54	4.84

Spandrel U-Value 0.09 [Btu/h.ft².F]

Table 7: Wall Type A Spandrel U-Value



PERMASTEELISA NORTH AMERICA

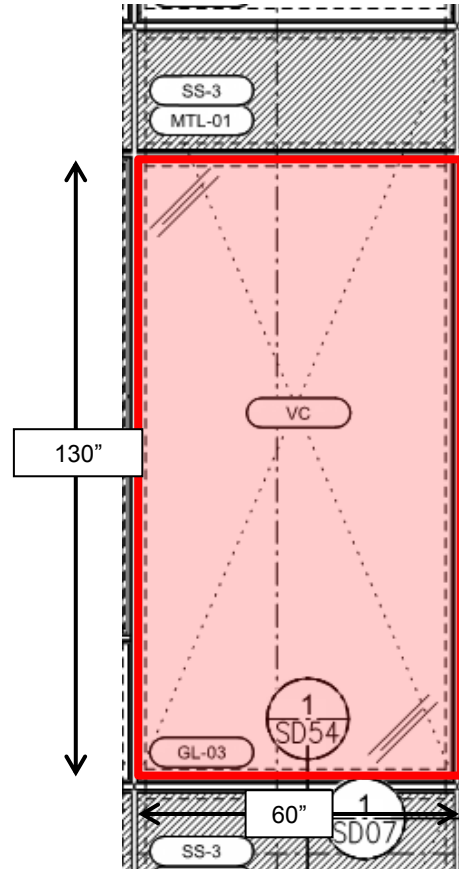


Figure 16: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Vision	1.05	601.90	4.18	4.39
Left Section	0.35	308.13	2.14	0.75
Right Section	0.35	308.13	2.14	0.75
Transom - Metal / Vision	1.17	235.32	1.63	1.91
Top Section	0.32	132.18	0.92	0.29
Bottom Section	0.36	132.18	0.92	0.33
Glass Vision	0.28	6082.18	42.24	11.83
Totals		7800	54	20.25

Vision U-Value 0.37 [Btu/h.ft².F]

Table 6: Wall Type B Vision U-Value



PERMASTEELISA NORTH AMERICA

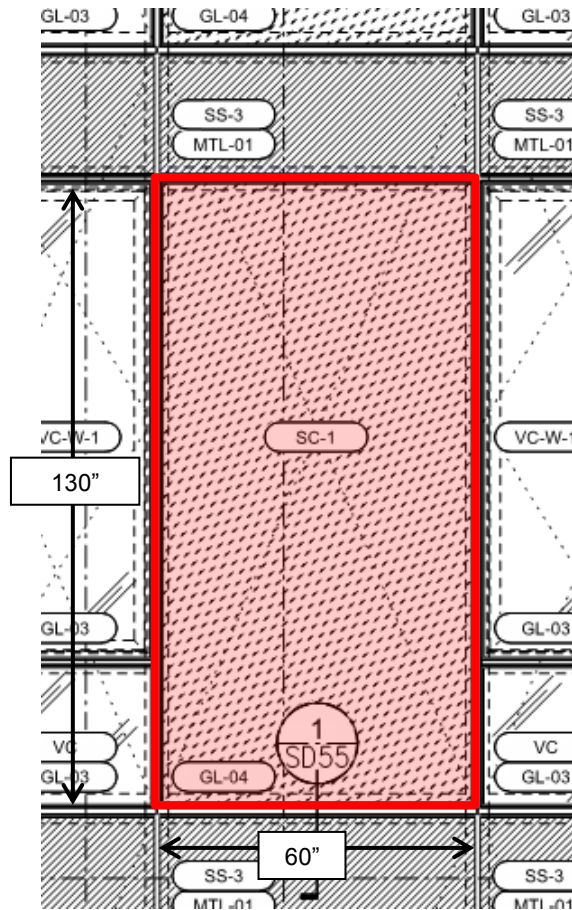


Figure 17: Typical Spandrel Unit

Components	U-Value [Btu/h.ft².F]	Area [in²]	Area [ft²]	U * A
Mullion - Vision / Spandrel	0.98	601.90	4.18	4.10
Left Section	0.37	308.13	2.14	0.79
Right Section	0.19	308.13	2.14	0.41
Transom - Metal / Spandrel	0.60	235.32	1.63	0.98
Top Section	0.39	132.18	0.92	0.36
Bottom Section	0.38	132.18	0.92	0.35
Spandrel Region	0.05	6082.18	42.24	2.11
Totals		7800	54	9.09
Overall U-Value 0.17 [Btu/h.ft².F]				

Table 7: Wall Type B Spandrel U-Value



PERMASTEELISA NORTH AMERICA

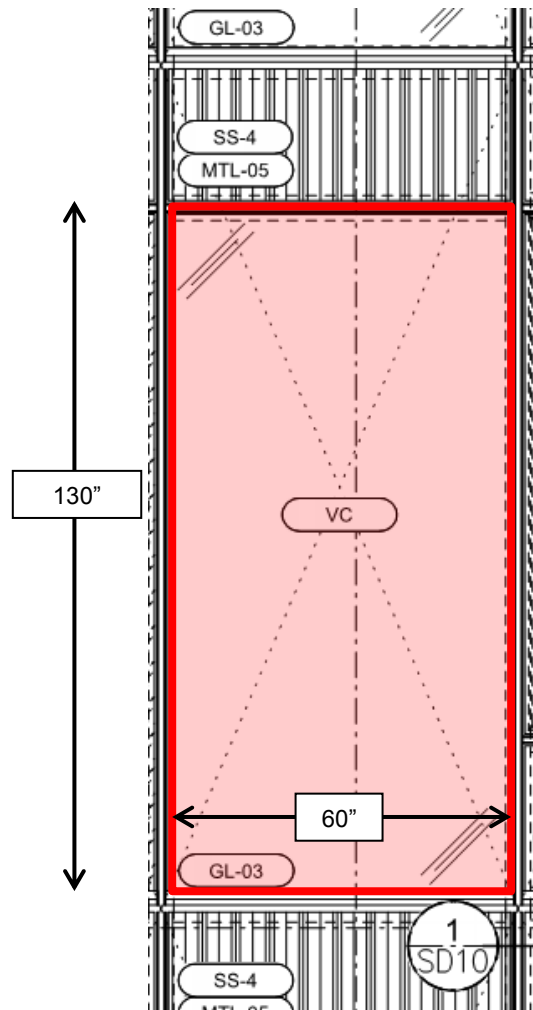


Figure 16: Typical Vision Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Vision / Vision	1.05	601.90	4.18	4.39
Left Section	0.35	308.13	2.14	0.75
Right Section	0.35	308.13	2.14	0.75
Transom - Metal / Vision	1.21	235.32	1.63	1.98
Top Section	0.33	132.18	0.92	0.30
Bottom Section	0.36	132.18	0.92	0.33
Glass Vision	0.28	6082.18	42.24	11.83
Totals		7800	54	20.32
Vision U-Value	0.38 [Btu/h.ft ² .F]			

Table 6: Wall Type E Vision U-Value



PERMASTEELISA NORTH AMERICA

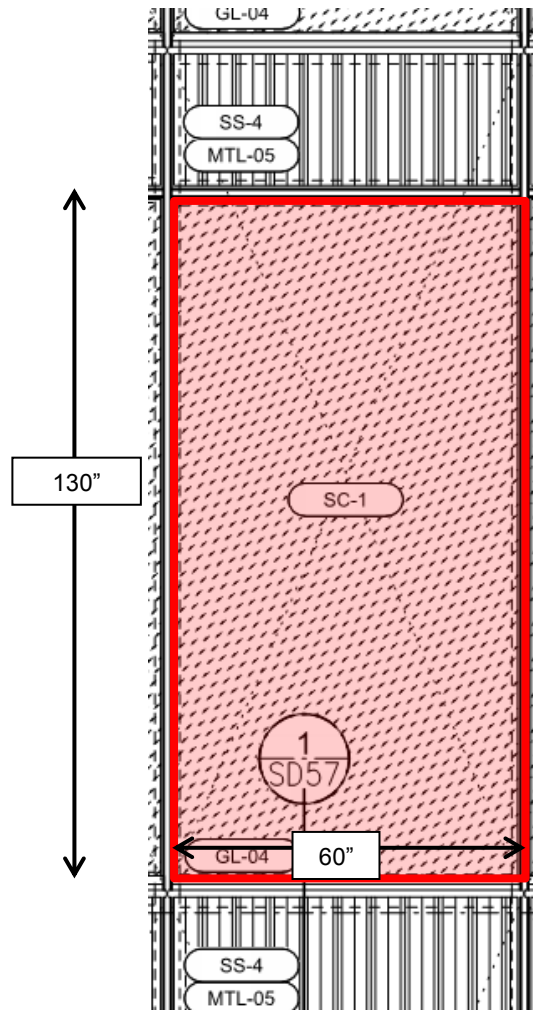


Figure 17: Typical Spandrel Unit

Components	U-Value [Btu/h.ft ² .F]	Area [in ²]	Area [ft ²]	U * A
Mullion - Spandrel / Spandrel	0.63	601.90	4.18	2.63
Left Section	0.24	308.13	2.14	0.51
Right Section	0.24	308.13	2.14	0.51
Transom - Metal / Spandrel	0.64	235.32	1.63	1.05
Top Section	0.41	132.18	0.92	0.38
Bottom Section	0.40	132.18	0.92	0.37
Glass Vision	0.04	6082.18	42.24	1.69
Totals		7800	54	7.14

Spandrel U-Value 0.13 [Btu/h.ft².F]

Table 7: Wall Type E Spandrel U-Value

REPORT- BEPS Building Energy Performance

WEATHER FILE- New York CityNY TMY2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
EM1 ELECTRICITY MBTU	1921.2	194.2	1522.8	1101.6	3613.7	19.2	930.7	6129.3	1445.0	0.0	275.7	921.7	18075.0
EM2- ELECTRICITY MBTU	6943.6	0.0	2970.7	0.0	2106.9	49.1	4.9	1045.7	0.0	0.0	0.0	0.0	13120.9
EM3- ELECTRICITY MBTU	4234.1	1.9	1451.7	75.2	7530.9	0.0	0.0	582.6	0.0	0.0	0.0	0.0	13876.4
DM1 ELECTRICITY MBTU	0.0	0.0	2352.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2352.4
EM4 ELECTRICITY MBTU	0.0	0.0	0.0	0.0	0.0	0.0	128.8	0.0	0.0	0.0	0.0	0.0	128.8
EM5 ELECTRICITY MBTU	0.0	0.0	0.0	0.0	0.0	0.0	8721.5	0.0	0.0	0.0	0.0	0.0	8721.5
FM1 NATURAL-GAS MBTU	0.0	0.0	0.0	27041.0	0.0	0.0	0.0	0.0	0.0	0.0	4736.0	0.0	31776.9
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
MBTU	13098.8	196.1	8297.6	28217.7	13251.5	68.3	9786.0	7757.7	1445.0	0.0	5011.6	921.7	88051.9

TOTAL SITE ENERGY 88051.92 MBTU 75.4 KBTU/SQFT-YR GROSS-AREA 75.4 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 200602.12 MBTU 171.8 KBTU/SQFT-YR GROSS-AREA 171.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.59
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.00
 HOURS ANY ZONE ABOVE COOLING THROTTLING RANGE = 0
 HOURS ANY ZONE BELOW HEATING THROTTLING RANGE = 52

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

REPORT- BEPU Building Utility Performance

WEATHER FILE- New York CityNY TMY2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
EM1 ELECTRICITY KWH	562898.	56896.	446168.	322758.	1058815.	5630.	272706.	1795890.	423382.	0.	80767.	270071.	5295980.
EM2- ELECTRICITY KWH	2034476.	0.	870404.	0.	617310.	14381.	1444.	306400.	0.	0.	0.	0.	3844411.
EM3- ELECTRICITY KWH	1240584.	552.	425345.	22029.	2206556.	0.	0.	170712.	0.	0.	0.	0.	4065781.
DM1 ELECTRICITY KWH	0.	0.	689267.	0.	0.	0.	0.	0.	0.	0.	0.	0.	689267.
EM4 ELECTRICITY KWH	0.	0.	0.	0.	0.	0.	37736.	0.	0.	0.	0.	0.	37736.
EM5 ELECTRICITY KWH	0.	0.	0.	0.	0.	0.	2555406.	0.	0.	0.	0.	0.	2555406.
FM1 NATURAL-GAS THERM	0.	0.	0.	270410.	0.	0.	0.	0.	0.	0.	47360.	0.	317769.

TOTAL ELECTRICITY	16488581. KWH	14.124 KWH	/SQFT-YR GROSS-AREA	14.124 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	317769. THERM	0.272 THERM	/SQFT-YR GROSS-AREA	0.272 THERM	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.59
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.00
 HOURS ANY ZONE ABOVE COOLING THROTTLING RANGE = 0
 HOURS ANY ZONE BELOW HEATING THROTTLING RANGE = 52

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

Extell 221 West 57th St

DEPT OF BLDGS121328205 Job Number

ES426295739 Scan Code N 1

REPORT- ES-D Energy Cost Summary

WEATHER FILE- New York CityNY TMY2

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
ConEd SC9	ELECTRICITY	EM1 EM2- EM4 EM5	11733537. KWH	2374068.	0.2023	YES
Gas Rate ConEd SC3	NATURAL-GAS	FM1	317769. THERM	337557.	1.0623	YES
ConEd SC1-Rate I	ELECTRICITY	EM3-	4065781. KWH	862322.	0.2121	YES
				=====		
				3573947.		

ENERGY COST/GROSS BLDG AREA: 3.06
ENERGY COST/NET BLDG AREA: 3.06

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

NUMBER OF SPACES 529 EXTERIOR 334 INTERIOR 195

SPACE	SPACE*FLOOR MULTIPLIER	SPACE TYPE	AZIM	LIGHTS (WATT / SQFT)	PEOPLE	EQUIP (WATT / SQFT)	INFILTRATION METHOD	ACH	AREA (SQFT)	VOLUME (CUFT)
Spaces on floor: SC3Below-Grade Flr										
SC3North Perim Spc (B.N1)	1.0	INT	90.0	1.00	31.5	0.25	NO-INFILT.	0.00	7871.5	78714.5
SC3SSW Perim Spc (B.SSW2)	1.0	INT	0.0	1.00	31.6	0.25	NO-INFILT.	0.00	7891.8	78917.5
SC3Core Spc (B.C3)	1.0	INT	0.0	1.00	0.7	0.25	NO-INFILT.	0.00	173.1	1731.3
SC3Core Spc (B.C4)	1.0	INT	0.0	1.00	0.7	0.25	NO-INFILT.	0.00	177.0	1770.0
SC3Core Spc (B.C5)	1.0	INT	0.0	1.00	0.9	0.25	NO-INFILT.	0.00	223.8	2237.5
SC3Core Spc (B.C6)	1.0	INT	0.0	1.00	1.9	0.25	NO-INFILT.	0.00	483.5	4835.0
SC3ESE Perim Spc (B.ESE7)	1.0	INT	-90.0	1.00	1.2	0.25	NO-INFILT.	0.00	311.1	3111.3
Spaces on floor: SC2Below-Grade Flr										
SC2WNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	27216.0
SC2NNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	36251.9
SC2Core Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	13249.6
SC2Core Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	103472.1
SC2SW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	13776.0
SC2WNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	4672.5
SC2SSW Perim Spc (B.SSW7)	1.0	INT	0.0	1.00	40.7	0.25	NO-INFILT.	0.00	2033.3	28465.5
SC2ESE Perim Spc (B.ESE8)	1.0	INT	-90.0	1.00	54.1	0.25	NO-INFILT.	0.00	2705.3	37873.5
SC2Core Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	121145.0
SC2Core Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	15067.0
SC2Core Spc (B.C11)	1.0	INT	0.0	1.00	114.7	0.25	NO-INFILT.	0.00	5737.3	80322.0
Spaces on floor: SC1Below-Grade Flr										
SC1WNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	34020.0
SC1NNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	45314.9
SC1Core Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	16562.0
SC1Core Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	129340.1
SC1SW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	17220.0
SC1WNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	5840.6
SC1SSW Perim Spc (B.SSW7)	1.0	INT	0.0	1.70	40.7	1.00	NO-INFILT.	0.00	2033.3	35581.9
SC1ESE Perim Spc (B.ESE8)	1.0	INT	-90.0	1.00	54.1	0.25	NO-INFILT.	0.00	2705.3	47341.9
SC1Core Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	151431.2
SC1Core Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	18833.8
SC1Core Spc (B.C11)	1.0	INT	0.0	1.70	114.7	1.00	NO-INFILT.	0.00	5737.3	100402.5
Spaces on floor: CBelow-Grade Flr										
CWNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	34020.0
CNNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	45314.9
CCore Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	16562.0
CCore Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	129340.1
CSW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	17220.0
CWNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	5840.6

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

CSSW Perim Spc (B.SSW7)	1.0	INT	0.0	1.70	40.7	1.00	NO-INFILT.	0.00	2033.3	35581.9
CESE Perim Spc (B.ESE8)	1.0	INT	-90.0	1.00	54.1	0.25	NO-INFILT.	0.00	2705.3	47341.9
CCore Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	151431.2
CCore Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	18833.8
CCore Spc (B.C11)	1.0	INT	0.0	1.70	114.7	1.00	NO-INFILT.	0.00	5737.3	100402.5

Spaces on floor: GGround Flr

GNW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	18.9	1.00	AIR-CHANGE	0.20	946.4	14196.0
GNW Perim Spc (G.NW2)	1.0	EXT	45.0	1.00	53.7	0.25	AIR-CHANGE	0.04	2684.9	40273.1
GNNE Perim Spc (G.NNE3)	1.0	EXT	33.3	1.70	24.6	1.00	AIR-CHANGE	0.16	1231.5	18472.2
GSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	5512.5
GWest Perim Spc (G.W5)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	12566.3
GEast Perim Spc (G.E6)	1.0	EXT	135.0	1.70	18.3	1.00	AIR-CHANGE	0.15	917.2	13757.5
GNNE Perim Spc (G.NNE7)	1.0	EXT	180.0	1.70	63.8	1.00	AIR-CHANGE	0.04	3191.1	47866.2
GWest Perim Spc (G.W8)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	7321.6
GSSW Perim Spc (G.SSW9)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	14979.4
GESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	1.70	9.0	1.00	AIR-CHANGE	0.11	449.1	6736.8
GESE Perim Spc (G.ESE11)	1.0	EXT	0.0	1.70	46.1	1.00	AIR-CHANGE	0.13	2304.7	34571.2
GSSW Perim Spc (G.SSW12)	1.0	EXT	0.0	1.70	37.4	1.00	AIR-CHANGE	0.17	1871.3	28068.8
GCore Spc (G.C13)	1.0	INT	0.0	1.70	62.9	1.00	AIR-CHANGE	0.00	3143.8	47157.0
GCore Spc (G.C14)	1.0	INT	0.0	1.70	11.6	1.00	AIR-CHANGE	0.00	581.2	8717.6
GNNE Perim Spc (G.NNE15)	1.0	EXT	-90.0	1.70	43.7	1.00	AIR-CHANGE	0.08	2182.5	32737.5
GCore Spc (G.C16)	1.0	INT	0.0	1.70	87.5	1.00	AIR-CHANGE	0.00	4376.0	65640.7
GCore Spc (G.C17)	1.0	INT	0.0	1.70	152.4	1.00	AIR-CHANGE	0.00	7621.7	114325.0
GPlnm (G.18)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.06	34193.8	68387.5

Spaces on floor: 1MGround Flr

1MNW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	8112.0
1MNorth Perim Spc (G.N2)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	16842.0
1MSW Perim Spc (G.SW3)	1.0	EXT	66.6	1.70	30.1	1.00	AIR-CHANGE	0.18	1506.9	12055.1
1MSW Perim Spc (G.SW4)	1.0	EXT	90.0	1.70	22.7	1.00	AIR-CHANGE	0.12	1134.8	9078.0
1MSSW Perim Spc (G.SSW5)	1.0	EXT	0.0	1.70	45.0	1.00	AIR-CHANGE	0.17	2247.8	17982.0
1MNNE Perim Spc (G.NNE6)	1.0	EXT	180.0	1.70	44.2	1.00	AIR-CHANGE	0.16	2210.3	17682.0
1MESE Perim Spc (G.ESE7)	1.0	EXT	135.0	1.70	54.1	1.00	AIR-CHANGE	0.16	2704.8	21638.4
1MCore Spc (G.C8)	1.0	INT	0.0	1.00	60.6	0.25	AIR-CHANGE	0.01	3032.1	24256.5
1MCore Spc (G.C9)	1.0	INT	0.0	1.70	28.0	1.00	AIR-CHANGE	0.01	1399.3	11194.6
1MCore Spc (G.C10)	1.0	INT	0.0	1.00	88.4	0.25	AIR-CHANGE	0.01	4420.3	35362.6
1MCore Spc (G.C11)	1.0	INT	0.0	1.70	287.0	1.00	AIR-CHANGE	0.01	14350.5	114804.3

Spaces on floor: 25Ground Flr

25NW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	17745.0
25North Perim Spc (G.N2)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	36841.9
25SSW Perim Spc (G.SSW3)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	6431.3
25West Perim Spc (G.W4)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	14660.6
25SSW Perim Spc (G.SSW5)	1.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5	38456.3
25Core Spc (G.C6)	1.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4	101157.4
25West Perim Spc (G.W7)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	8541.8
25SSW Perim Spc (G.SSW8)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	17475.9
25ESE Perim Spc (G.ESE9)	1.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1	26094.6
25ESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3	21249.4
25NNE Perim Spc (G.NNE11)	1.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3	28546.9
25NNE Perim Spc (G.NNE12)	1.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0	10132.5
25Core Spc (G.C13)	1.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6	20327.7
25Core Spc (G.C14)	1.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5	29688.8

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

25Core Spc (G.C15)	1.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3	163594.4
25Core Spc (G.C16)	1.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5	91270.9

Spaces on floor: 25Mid Flrs

25NW Perim Spc (M.NW17)	2.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	17745.0
25North Perim Spc (M.N18)	2.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	36841.9
25SSW Perim Spc (M.SSW19)	2.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	6431.3
25West Perim Spc (M.W20)	2.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	14660.6
25SSW Perim Spc (M.SSW21)	2.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5	38456.3
25Core Spc (M.C22)	2.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4	101157.4
25West Perim Spc (M.W23)	2.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	8541.8
25SSW Perim Spc (M.SSW24)	2.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	17475.9
25ESE Perim Spc (M.ESE25)	2.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1	26094.6
25ESE Perim Spc (M.ESE26)	2.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3	21249.4
25NNE Perim Spc (M.NNE27)	2.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3	28546.9
25NNE Perim Spc (M.NNE28)	2.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0	10132.5
25Core Spc (M.C29)	2.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6	20327.7
25Core Spc (M.C30)	2.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5	29688.8
25Core Spc (M.C31)	2.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3	163594.4
25Core Spc (M.C32)	2.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5	91270.9

Spaces on floor: 25Top Flr

25NW Perim Spc (T.NW33)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	17745.0
25North Perim Spc (T.N34)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	36841.9
25SSW Perim Spc (T.SSW35)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	6431.3
25West Perim Spc (T.W36)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	14660.6
25SSW Perim Spc (T.SSW37)	1.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5	38456.3
25Core Spc (T.C38)	1.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4	101157.4
25West Perim Spc (T.W39)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	8541.8
25SSW Perim Spc (T.SSW40)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	17475.9
25ESE Perim Spc (T.ESE41)	1.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1	26094.6
25ESE Perim Spc (T.ESE42)	1.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3	21249.4
25NNE Perim Spc (T.NNE43)	1.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3	28546.9
25NNE Perim Spc (T.NNE44)	1.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0	10132.5
25Core Spc (T.C45)	1.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6	20327.7
25Core Spc (T.C46)	1.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5	29688.8
25Core Spc (T.C47)	1.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3	163594.4
25Core Spc (T.C48)	1.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5	91270.9

Spaces on floor: 6MCGround Flr

6MCWSW Perim Spc (G.WSW1)	1.0	EXT	66.6	1.00	11.3	0.25	AIR-CHANGE	0.18	2836.6	102119.2
6MCNorth Perim Spc (G.N2)	1.0	EXT	33.3	1.00	8.2	0.25	AIR-CHANGE	0.16	2055.5	73998.7
6MCNW Perim Spc (G.NW3)	1.0	EXT	90.0	1.00	3.2	0.25	AIR-CHANGE	0.22	801.8	28863.0
6MCNNE Perim Spc (G.NNE4)	1.0	EXT	180.0	1.00	8.8	0.25	AIR-CHANGE	0.18	2210.3	79569.0
6MCESE Perim Spc (G.ESE5)	1.0	EXT	-90.0	1.00	9.3	0.25	AIR-CHANGE	0.19	2323.9	83659.5
6MCSSW Perim Spc (G.SSW6)	1.0	EXT	0.0	1.00	7.7	0.25	AIR-CHANGE	0.19	1936.7	69722.0
6MCCore Spc (G.C7)	1.0	INT	0.0	1.00	33.0	0.25	AIR-CHANGE	0.00	8247.1	296895.3
6MCCore Spc (G.C8)	1.0	INT	0.0	1.00	19.5	0.25	AIR-CHANGE	0.00	4872.1	175394.6
6MCCore Spc (G.C9)	1.0	INT	0.0	1.00	11.8	0.25	AIR-CHANGE	0.00	2937.6	105755.0
6MCCore Spc (G.C10)	1.0	INT	0.0	1.00	15.2	0.25	AIR-CHANGE	0.00	3796.7	136681.6
6MCPlnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.06	32018.6	64037.2
6MC Top Spc	1.0	EXT	0.0	1.00	2.9	0.00	NO-INFILT.	0.00	2916.0	58320.0
Roof Spc (6MC)	1.0	EXT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	29904.8	598095.7

Spaces on floor: 8AGround Flr (rev: amen 8 + 9)

8ANW Perim Spc (G.NW1)	1.0	EXT	90.0	1.19	4.5	0.27	AIR-CHANGE	0.22	451.4	10833.4
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REPORT- LV-B Summary of Spaces

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(CONTINUED)

8AWSW Perim Spc (G.WSW2)	1.0	EXT	0.0	1.19	33.0	0.27	AIR-CHANGE	0.13	3297.3	79136.0
8ANNE Perim Spc (G.NNE3)	1.0	EXT	90.0	1.19	2.1	0.27	AIR-CHANGE	0.09	205.4	4929.6
8ACore Spc (G.C4)	1.0	INT	0.0	1.19	4.7	0.27	AIR-CHANGE	0.00	474.0	11376.5
8ANNE Perim Spc (G.NNE5)	1.0	EXT	90.0	1.19	3.0	0.27	AIR-CHANGE	0.14	298.3	7159.2
8ACore Spc (G.C6)	1.0	INT	0.0	1.19	1.8	0.27	AIR-CHANGE	0.00	179.8	4314.6
8ANNE Perim Spc (G.NNE7)	1.0	EXT	90.0	1.19	2.1	0.27	AIR-CHANGE	0.12	207.9	4989.6
8ACore Spc (G.C8)	1.0	INT	0.0	0.00	1.8	0.00	AIR-CHANGE	0.00	183.6	4406.4
8ASW Perim Spc (G.SW9)	1.0	EXT	90.0	1.19	5.0	0.27	AIR-CHANGE	0.09	503.2	12077.9
8AWSW Perim Spc (G.WSW10)	1.0	EXT	0.0	0.00	2.3	0.00	AIR-CHANGE	0.30	233.3	5599.8
8ASSW Perim Spc (G.SSW11)	1.0	EXT	0.0	0.00	3.2	0.00	AIR-CHANGE	0.07	324.0	7775.5
8AESE Perim Spc (G.ESE12)	1.0	EXT	-90.0	0.00	3.4	0.27	AIR-CHANGE	0.53	340.1	8162.9

Spaces on floor: 8MAGround Flr (rev: amen mz 8+9)

8MANNE Perim Spc (G.NNE1)	1.0	EXT	90.0	1.19	2.8	0.27	AIR-CHANGE	0.50	706.0	14119.0
8MASSW Perim Spc (G.SSW2)	1.0	EXT	0.0	1.19	13.7	0.27	AIR-CHANGE	0.28	3416.3	68326.0

Spaces on floor: 10AGround Flr

10AWNw Perim Spc (G.WNW1)	1.0	EXT	90.0	1.19	11.7	0.27	AIR-CHANGE	0.07	1165.7	16319.2
10ASSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.00	1.2	0.27	AIR-CHANGE	0.63	121.4	1699.4
10ACore Spc (G.C3)	1.0	INT	0.0	0.00	1.8	0.27	AIR-CHANGE	0.00	183.6	2570.4
10AESE Perim Spc (G.ESE4)	1.0	EXT	-90.0	1.19	6.5	0.27	AIR-CHANGE	0.05	653.1	9143.5
10ACore Spc (G.C5)	1.0	INT	0.0	0.00	2.3	0.27	AIR-CHANGE	0.00	233.3	3266.6
10AESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.00	1.7	0.27	AIR-CHANGE	0.24	174.1	2437.6
10ASSW Perim Spc (G.SSW7)	1.0	EXT	0.0	1.19	31.6	0.27	AIR-CHANGE	0.12	3163.8	44292.9
10ANorth Perim Spc (G.N8)	1.0	EXT	90.0	1.19	36.3	0.27	AIR-CHANGE	0.10	3626.4	50769.0
10AENE Perim Spc (G.ENE9)	1.0	EXT	180.0	1.19	15.0	0.27	AIR-CHANGE	0.12	1499.3	20990.4
10APlrm (G.10)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	10820.6	450896.3

Spaces on floor: 10MGround Flr (rev: 11BMU)

10MWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	0.00	4.7	0.00	AIR-CHANGE	0.07	1165.7	67993.0
10MSSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.63	121.4	7080.5
10MCore Spc (G.C3)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	183.6	10709.4
10MESE Perim Spc (G.ESE4)	1.0	EXT	-90.0	0.00	2.6	0.00	AIR-CHANGE	0.05	653.1	38095.9
10MCore Spc (G.C5)	1.0	INT	0.0	0.00	0.9	0.00	AIR-CHANGE	0.00	233.3	13609.8
10MESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.00	0.7	0.00	AIR-CHANGE	0.24	174.1	10156.1
10MSSW Perim Spc (G.SSW7)	1.0	EXT	0.0	0.00	12.7	0.00	AIR-CHANGE	0.12	3163.8	184543.1
10MNorth Perim Spc (G.N8)	1.0	EXT	90.0	0.00	14.5	0.00	AIR-CHANGE	0.10	3626.4	211525.4
10MENE Perim Spc (G.ENE9)	1.0	EXT	180.0	0.00	6.0	0.00	AIR-CHANGE	0.12	1499.3	87454.9

Spaces on floor: 11MCGround Flr (rev: 12MC)

11MCNNE Perim Spc (G.NNE1)	1.0	EXT	90.0	1.00	24.8	0.25	AIR-CHANGE	0.11	6201.1	146965.8
11MCWNW Perim Spc (G.WNW2)	1.0	EXT	90.0	1.00	0.6	0.25	AIR-CHANGE	0.12	147.6	3497.6
11MCSW Perim Spc (G.SW3)	1.0	EXT	0.0	1.00	0.5	0.25	AIR-CHANGE	0.44	136.3	3230.3
11MCSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	1.00	0.0	0.25	AIR-CHANGE	0.09	277.1	6566.9
11MCWSW Perim Spc (G.WSW5)	1.0	EXT	90.0	1.00	8.3	0.25	AIR-CHANGE	0.15	2069.4	49045.0
11MCSE Perim Spc (G.SE6)	1.0	EXT	0.0	1.00	5.1	0.25	AIR-CHANGE	0.14	1269.5	30087.2
11MCCore Spc (G.C7)	1.0	INT	0.0	1.00	0.7	0.25	AIR-CHANGE	0.00	183.6	4351.3
11MCCore Spc (G.C8)	1.0	INT	0.0	1.00	0.9	0.25	AIR-CHANGE	0.00	233.3	5529.8
11MCCore Spc (G.C9)	1.0	INT	0.0	1.00	0.7	0.25	AIR-CHANGE	0.00	174.1	4126.5
11MCCore Spc (G.C10)	1.0	INT	0.0	1.00	2.6	0.25	AIR-CHANGE	0.00	653.1	15478.7
ERU-11-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 11DBGround Flr (rev: 12DBMC)

11DBWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	1.00	7.6	0.25	AIR-CHANGE	0.19	1910.8	135667.5
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Spaces on floor: 1519Ground Flr (rev: 13)

1519Core Spc (G.C1)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
1519Core Spc (G.C2)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
1519Core Spc (G.C3)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
1519Core Spc (G.C4)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
1519Core Spc (G.C5)	3.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
1519WNW Perim Spc (G.WNW6)	3.0	EXT	90.0	0.70	2.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
1519NNE Perim Spc (G.NNE7)	3.0	EXT	0.0	0.70	3.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
1519East Perim Spc (G.E8)	3.0	EXT	180.0	0.70	2.0	0.24	AIR-CHANGE	0.15	986.2	9862.3
1519ESE Perim Spc (G.ESE9)	3.0	EXT	-90.0	0.70	2.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
1519South Perim Spc (G.S10)	3.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.23	433.7	4336.8
1519SSE Perim Spc (G.SSE11)	3.0	EXT	-90.0	0.70	3.0	0.24	AIR-CHANGE	0.09	1922.4	19223.8
1519West Perim Spc (G.W12)	3.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	1360.4	13604.5
1519WNW Perim Spc (G.WNW13)	3.0	EXT	90.0	0.00	0.0	0.00	AIR-CHANGE	0.07	1060.8	10608.1
1519Plnm (G.14)	3.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 1519Mid Flrs

1519Core Spc (M.C15)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
1519Core Spc (M.C16)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
1519Core Spc (M.C17)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
1519Core Spc (M.C18)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
1519Core Spc (M.C19)	5.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
1519WNW Perim Spc (M.WNW20)	5.0	EXT	90.0	0.70	2.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
1519NNE Perim Spc (M.NNE21)	5.0	EXT	0.0	0.70	3.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
1519East Perim Spc (M.E22)	5.0	EXT	180.0	0.70	2.0	0.24	AIR-CHANGE	0.15	986.2	9862.3
1519ESE Perim Spc (M.ESE23)	5.0	EXT	-90.0	0.70	2.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
1519South Perim Spc (M.S24)	5.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.23	433.7	4336.8
1519SSE Perim Spc (M.SSE25)	5.0	EXT	-90.0	0.70	3.0	0.24	AIR-CHANGE	0.09	1922.4	19223.8
1519West Perim Spc (M.W26)	5.0	EXT	0.0	0.70	2.0	0.24	AIR-CHANGE	0.13	1360.4	13604.5
1519WNW Perim Spc (M.WNW27)	5.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.07	1060.8	10608.1
1519Plnm (M.28)	5.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 1519Top Flr

1519Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
1519Core Spc (T.C30)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
1519Core Spc (T.C31)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
1519Core Spc (T.C32)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
1519Core Spc (T.C33)	1.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
1519WNW Perim Spc (T.WNW34)	1.0	EXT	90.0	0.70	2.0	0.24	AIR-CHANGE	0.13	1244.8	17427.9
1519NNE Perim Spc (T.NNE35)	1.0	EXT	0.0	0.70	3.0	0.24	AIR-CHANGE	0.05	3970.0	55580.1
1519East Perim Spc (T.E36)	1.0	EXT	180.0	0.70	2.0	0.24	AIR-CHANGE	0.11	986.2	13807.2
1519ESE Perim Spc (T.ESE37)	1.0	EXT	-90.0	0.70	2.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
1519South Perim Spc (T.S38)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.16	433.7	6071.5
1519SSE Perim Spc (T.SSE39)	1.0	EXT	-90.0	0.70	3.0	0.24	AIR-CHANGE	0.06	1922.4	26913.3
1519West Perim Spc (T.W40)	1.0	EXT	0.0	0.70	2.0	0.24	AIR-CHANGE	0.09	1360.4	19046.3
1519WNW Perim Spc (T.WNW41)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
1519Plnm (T.42)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 2026Ground Flr

2026Core Spc (G.C1)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
2026Core Spc (G.C2)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
2026Core Spc (G.C3)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6

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2026Core Spc (G.C4)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
2026Core Spc (G.C5)	1.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
2026East Perim Spc (G.E6)	1.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.11	986.2	13807.2
2026WNW Perim Spc (G.WNW7)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.13	1244.8	17427.9
2026NNE Perim Spc (G.NNE8)	1.0	EXT	0.0	0.70	2.0	0.24	AIR-CHANGE	0.05	3970.0	55580.1
2026WNW Perim Spc (G.WNW9)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
2026ESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
2026SW Perim Spc (G.SW11)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.16	466.4	6530.2
2026SSW Perim Spc (G.SSW12)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.10	694.2	9718.8
2026South Perim Spc (G.S13)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.17	398.6	5580.1
2026Plnm (G.14)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 2026Mid Flrs

2026Core Spc (M.C15)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
2026Core Spc (M.C16)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
2026Core Spc (M.C17)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
2026Core Spc (M.C18)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
2026Core Spc (M.C19)	5.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
2026East Perim Spc (M.E20)	5.0	EXT	180.0	0.70	6.2	0.24	AIR-CHANGE	0.15	986.2	9862.3
2026WNW Perim Spc (M.WNW21)	5.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
2026NNE Perim Spc (M.NNE22)	5.0	EXT	0.0	0.70	2.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
2026WNW Perim Spc (M.WNW23)	5.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.07	1060.8	10608.1
2026ESE Perim Spc (M.ESE24)	5.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
2026SW Perim Spc (M.SW25)	5.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.22	466.4	4664.4
2026SSW Perim Spc (M.SSW26)	5.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.15	694.2	6942.0
2026South Perim Spc (M.S27)	5.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.24	398.6	3985.8
2026Plnm (M.28)	5.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 2026Top Flr

2026Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
2026Core Spc (T.C30)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
2026Core Spc (T.C31)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
2026Core Spc (T.C32)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
2026Core Spc (T.C33)	1.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
2026East Perim Spc (T.E34)	1.0	EXT	180.0	0.70	6.2	0.24	AIR-CHANGE	0.11	986.2	13807.2
2026WNW Perim Spc (T.WNW35)	1.0	EXT	90.0	0.70	7.8	0.24	AIR-CHANGE	0.13	1244.8	17427.9
2026NNE Perim Spc (T.NNE36)	1.0	EXT	0.0	0.70	24.8	0.24	AIR-CHANGE	0.05	3970.0	55580.1
2026WNW Perim Spc (T.WNW37)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
2026ESE Perim Spc (T.ESE38)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
2026SW Perim Spc (T.SW39)	1.0	EXT	0.0	0.70	2.9	0.24	AIR-CHANGE	0.16	466.4	6530.2
2026SSW Perim Spc (T.SSW40)	1.0	EXT	0.0	0.70	4.3	0.24	AIR-CHANGE	0.10	694.2	9718.8
2026South Perim Spc (T.S41)	1.0	EXT	-90.0	0.70	2.5	0.24	AIR-CHANGE	0.17	398.6	5580.1
2026Plnm (T.42)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 27MCGround Flr

27MCCore Spc (G.C1)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	180.0	3240.0
27MCCore Spc (G.C2)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	183.6	3304.8
27MCCore Spc (G.C3)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	233.3	4199.9
27MCCore Spc (G.C4)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	174.1	3134.1
27MCCore Spc (G.C5)	1.0	INT	0.0	1.00	2.6	0.25	AIR-CHANGE	0.00	653.1	11756.0
27MCEast Perim Spc (G.E6)	1.0	EXT	180.0	1.00	3.9	0.25	AIR-CHANGE	0.20	986.2	17752.1
27MCWNW Perim Spc (G.WNW7)	1.0	EXT	90.0	1.00	5.0	0.25	AIR-CHANGE	0.25	1244.8	22407.3
27MCNNE Perim Spc (G.NNE8)	1.0	EXT	0.0	1.00	24.8	0.25	AIR-CHANGE	0.10	3970.0	71460.2
27MCWNW Perim Spc (G.WNW9)	1.0	EXT	90.0	1.00	0.0	0.25	AIR-CHANGE	0.10	1060.8	19094.6

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27MCESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	1.00	3.4	0.25	AIR-CHANGE	0.12	853.4	15360.7
27MCSW Perim Spc (G.SW11)	1.0	EXT	0.0	1.00	1.9	0.25	AIR-CHANGE	0.30	466.4	8395.9
27MCSSW Perim Spc (G.SSW12)	1.0	EXT	0.0	1.00	2.8	0.25	AIR-CHANGE	0.19	694.2	12495.6
27MCSouth Perim Spc (G.S13)	1.0	EXT	-90.0	1.00	1.6	0.25	AIR-CHANGE	0.31	398.6	7174.4
ERU-27-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-27-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 28Ground Flr

28Core Spc (G.C1)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
28Core Spc (G.C2)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
28Core Spc (G.C3)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
28Core Spc (G.C4)	1.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
28NNW Perim Spc (G.NNW5)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1434.0	20075.9
28NNE Perim Spc (G.NNE6)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.04	1437.8	20129.9
28East Perim Spc (G.E7)	1.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.10	986.2	13807.2
28ESE Perim Spc (G.ESE8)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
28South Perim Spc (G.S9)	1.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.16	398.6	5580.1
28SSW Perim Spc (G.SSW10)	1.0	EXT	0.0	0.70	0.0	0.24	AIR-CHANGE	0.10	581.1	8135.4
28SW Perim Spc (G.SW11)	1.0	EXT	0.0	0.70	0.0	0.24	AIR-CHANGE	0.15	579.5	8113.6
28WNW Perim Spc (G.WNW12)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.04	1240.8	17371.3
28Plnm (G.13)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 2936Mid Flrs

2936Core Spc (M.C14)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1799.3
2936Core Spc (M.C15)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2286.6
2936Core Spc (M.C16)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1706.3
2936Core Spc (M.C17)	8.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.01	653.1	6400.5
2936NNW Perim Spc (M.NNW18)	8.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.12	1434.0	14053.1
2936NNE Perim Spc (M.NNE19)	8.0	EXT	90.0	0.70	2.0	0.24	AIR-CHANGE	0.06	1437.8	14090.9
2936East Perim Spc (M.E20)	8.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.15	986.2	9665.1
2936ESE Perim Spc (M.ESE21)	8.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	853.4	8363.0
2936South Perim Spc (M.S22)	8.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.24	398.6	3906.1
2936SSW Perim Spc (M.SSW23)	8.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.15	581.1	5694.8
2936SW Perim Spc (M.SW24)	8.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.21	579.5	5679.5
2936WNW Perim Spc (M.WNW25)	8.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	1240.8	12159.9
2936Plnm (M.26)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 3744Mid Flrs

3744Core Spc (M.C14)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1799.3
3744Core Spc (M.C15)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2286.6
3744Core Spc (M.C16)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1706.3
3744Core Spc (M.C17)	8.0	INT	0.0	1.03	0.7	0.24	AIR-CHANGE	0.01	653.1	6400.5
3744NNW Perim Spc (M.NNW18)	8.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.12	1434.0	14053.1
3744NNE Perim Spc (M.NNE19)	8.0	EXT	90.0	0.70	2.0	0.24	AIR-CHANGE	0.06	1437.8	14090.9
3744East Perim Spc (M.E20)	8.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.15	986.2	9665.1
3744ESE Perim Spc (M.ESE21)	8.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	853.4	8363.0
3744South Perim Spc (M.S22)	8.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.24	398.6	3906.1
3744SSW Perim Spc (M.SSW23)	8.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.15	581.1	5694.8
3744SW Perim Spc (M.SW24)	8.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.21	579.5	5679.5
3744WNW Perim Spc (M.WNW25)	8.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	1240.8	12159.9
3744Plnm (M.26)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 45Top Flr

45Core Spc (T.C27)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
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45Core Spc (T.C28)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
45Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
45Core Spc (T.C30)	1.0	INT	0.0	1.03	0.7	0.00	AIR-CHANGE	0.00	653.1	9143.5
45NNW Perim Spc (T.NNW31)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1434.0	20075.9
45NNE Perim Spc (T.NNE32)	1.0	EXT	90.0	0.70	2.0	0.24	AIR-CHANGE	0.04	1437.8	20129.9
45East Perim Spc (T.E33)	1.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.10	986.2	13807.2
45ESE Perim Spc (T.ESE34)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
45South Perim Spc (T.S35)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.16	398.6	5580.1
45SSW Perim Spc (T.SSW36)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.10	581.1	8135.4
45SW Perim Spc (T.SW37)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.15	579.5	8113.6
45WNW Perim Spc (T.WNW38)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.04	1240.8	17371.3
45Plnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 46MCTop Flr

46MCCore Spc (T.C27)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	183.6	3304.8
46MCCore Spc (T.C28)	1.0	INT	0.0	0.00	0.9	0.00	AIR-CHANGE	0.00	233.3	4199.9
46MCCore Spc (T.C29)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	174.1	3134.1
46MCCore Spc (T.C30)	1.0	INT	0.0	1.00	2.6	0.25	AIR-CHANGE	0.00	653.1	11756.0
46MCNNW Perim Spc (T.NNW31)	1.0	EXT	90.0	1.00	5.7	0.25	AIR-CHANGE	0.07	1434.0	25811.8
46MCNNE Perim Spc (T.NNE32)	1.0	EXT	90.0	1.00	5.8	0.25	AIR-CHANGE	0.03	1437.8	25881.3
46MCEast Perim Spc (T.E33)	1.0	EXT	180.0	1.00	3.9	0.25	AIR-CHANGE	0.08	986.2	17752.1
46MCESE Perim Spc (T.ESE34)	1.0	EXT	-90.0	1.00	3.4	0.25	AIR-CHANGE	0.05	853.4	15360.7
46MCSouth Perim Spc (T.S35)	1.0	EXT	-90.0	1.00	1.6	0.25	AIR-CHANGE	0.13	398.6	7174.4
46MCSSW Perim Spc (T.SSW36)	1.0	EXT	0.0	1.00	2.3	0.25	AIR-CHANGE	0.08	581.1	10459.8
46MCSW Perim Spc (T.SW37)	1.0	EXT	0.0	1.00	2.3	0.25	AIR-CHANGE	0.11	579.5	10431.7
46MCWNW Perim Spc (T.WNW38)	1.0	EXT	90.0	1.00	5.0	0.25	AIR-CHANGE	0.03	1240.8	22334.6
46MCPlnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2
ERU-46-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-46-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 47Ground Flr

47NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
47West Perim Spc (G.W2)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
47SW Perim Spc (G.SW3)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
47SSW Perim Spc (G.SSW4)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
47SSE Perim Spc (G.SSE5)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
47ESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
47ENE Perim Spc (G.ENE7)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
47NE Perim Spc (G.NE8)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5
47Core Spc (G.C9)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
47Core Spc (G.C10)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
47Core Spc (G.C11)	1.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
47Core Spc (G.C12)	1.0	INT	0.0	1.03	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
47Plnm (G.13)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 4856Mid Flrs

4856NNW Perim Spc (M.NNW14)	9.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
4856West Perim Spc (M.W15)	9.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
4856SW Perim Spc (M.SW16)	9.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
4856SSW Perim Spc (M.SSW17)	9.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
4856SSE Perim Spc (M.SSE18)	9.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
4856ESE Perim Spc (M.ESE19)	9.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
4856ENE Perim Spc (M.ENE20)	9.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
4856NE Perim Spc (M.NE21)	9.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5

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4856Core Spc (M.C22)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
4856Core Spc (M.C23)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
4856Core Spc (M.C24)	9.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
4856Core Spc (M.C25)	9.0	INT	0.0	1.03	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
4856Plnm (M.26)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 5765Mid Flrs

5765NNW Perim Spc (M.NNW14)	9.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
5765West Perim Spc (M.W15)	9.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
5765SW Perim Spc (M.SW16)	9.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
5765SSW Perim Spc (M.SSW17)	9.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
5765SSE Perim Spc (M.SSE18)	9.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
5765ESE Perim Spc (M.ESE19)	9.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
5765ENE Perim Spc (M.ENE20)	9.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
5765NE Perim Spc (M.NE21)	9.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5
5765Core Spc (M.C22)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
5765Core Spc (M.C23)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
5765Core Spc (M.C24)	9.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
5765Core Spc (M.C25)	9.0	INT	0.0	1.03	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
5765Plnm (M.26)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 66Top Flr

66NNW Perim Spc (T.NNW27)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.11	1163.6	16290.5
66West Perim Spc (T.W28)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.06	1426.6	19971.8
66SW Perim Spc (T.SW29)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	419.4	5872.1
66SSW Perim Spc (T.SSW30)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.09	741.3	10377.8
66SSE Perim Spc (T.SSE31)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.16	508.4	7118.2
66ESE Perim Spc (T.ESE32)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.07	853.4	11947.2
66ENE Perim Spc (T.ENE33)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.14	643.5	9009.0
66NE Perim Spc (T.NE34)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.07	1210.8	16951.1
66Core Spc (T.C35)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
66Core Spc (T.C36)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	232.7	3257.6
66Core Spc (T.C37)	1.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.00	259.0	3625.9
66Core Spc (T.C38)	1.0	INT	0.0	1.03	0.6	0.24	AIR-CHANGE	0.00	568.9	7964.2
66Plnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 67MCGround Flr

67MCNNW Perim Spc (G.NNW1)	1.0	EXT	90.0	1.00	4.7	0.25	AIR-CHANGE	0.16	1163.6	32581.1
67MCWest Perim Spc (G.W2)	1.0	EXT	0.0	1.00	5.7	0.25	AIR-CHANGE	0.09	1426.6	39943.7
67MC SW Perim Spc (G.SW3)	1.0	EXT	90.0	1.00	1.7	0.25	AIR-CHANGE	0.27	419.4	11744.2
67MCSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	1.00	3.0	0.25	AIR-CHANGE	0.13	741.3	20755.7
67MC SSE Perim Spc (G.SSE5)	1.0	EXT	-90.0	1.00	2.0	0.25	AIR-CHANGE	0.23	508.4	14236.5
67MCESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	1.00	3.4	0.25	AIR-CHANGE	0.10	853.4	23894.4
67MCENE Perim Spc (G.ENE7)	1.0	EXT	90.0	1.00	2.6	0.25	AIR-CHANGE	0.21	643.5	18018.0
67MCNE Perim Spc (G.NE8)	1.0	EXT	-90.0	1.00	4.8	0.25	AIR-CHANGE	0.10	1210.8	33902.1
67MCCore Spc (G.C9)	1.0	INT	0.0	1.00	0.7	0.25	AIR-CHANGE	0.00	183.6	5140.8
67MCCore Spc (G.C10)	1.0	INT	0.0	1.00	0.9	0.25	AIR-CHANGE	0.00	232.7	6515.3
67MCCore Spc (G.C11)	1.0	INT	0.0	1.00	2.3	0.25	AIR-CHANGE	0.00	568.9	15928.4
67MCCore Spc (G.C12)	1.0	INT	0.0	1.00	1.0	0.25	AIR-CHANGE	0.00	259.0	7251.7
ERU-67-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-67-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 68Ground Flr (rev: 69)

68NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.16	987.4	13823.0
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68NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.11	1277.7	17887.4
68ESE Perim Spc (G.ESE3)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.60	230.2	3223.4
68West Perim Spc (G.W4)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1351.7	18923.5
68SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
68South Perim Spc (G.S6)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	741.3	10377.8
68Core Spc (G.C7)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	232.7	3257.6
68Core Spc (G.C8)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
68ESE Perim Spc (G.ESE9)	1.0	EXT	-90.0	0.00	1.7	0.00	AIR-CHANGE	0.24	259.0	3625.9
68Core Spc (G.C10)	1.0	EXT	-90.0	1.03	0.6	0.00	AIR-CHANGE	0.00	568.9	7964.2
68Plnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.14	6222.8	12445.5

Spaces on floor: 68DBGround Flr (rev: 69db)

68DBWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.24	1800.6	54018.9
68DBPlnm (G.2)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.24	1800.6	3601.3

Spaces on floor: 69Ground Flr (rev: 70)

69NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.16	987.4	13823.0
69NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.11	1277.7	17887.4
69ESE Perim Spc (G.ESE3)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.60	230.2	3223.4
69West Perim Spc (G.W4)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1351.7	18923.5
69SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
69South Perim Spc (G.S6)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	741.3	10377.8
69Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	232.7	3257.6
69Core Spc (G.C8)	1.0	INT	0.0	0.00	1.0	0.00	AIR-CHANGE	0.00	183.6	2570.4
69ESE Perim Spc (G.ESE9)	1.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
69Core Spc (G.C10)	1.0	EXT	-90.0	1.03	3.2	0.24	AIR-CHANGE	0.00	568.9	7964.2
69Plnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.14	6222.8	12445.5

Spaces on floor: 70Ground Flr (rev: 68)

70NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
70West Perim Spc (G.W2)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
70SW Perim Spc (G.SW3)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
70South Perim Spc (G.S4)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
70NE Perim Spc (G.NE5)	1.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
70ENE Perim Spc (G.ENE6)	1.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
70SE Perim Spc (G.SE7)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
70Core Spc (G.C8)	1.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
70Core Spc (G.C9)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
70Core Spc (G.C10)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1
70Core Spc (G.C11)	1.0	INT	0.0	1.03	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
70Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 7179Mid Flrs

7179NNW Perim Spc (M.NNW13)	9.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
7179West Perim Spc (M.W14)	9.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
7179SW Perim Spc (M.SW15)	9.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
7179South Perim Spc (M.S16)	9.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
7179NE Perim Spc (M.NE17)	9.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
7179ENE Perim Spc (M.ENE18)	9.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
7179SE Perim Spc (M.SE19)	9.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
7179Core Spc (M.C20)	9.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
7179Core Spc (M.C21)	9.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
7179Core Spc (M.C22)	9.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1

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7179Core Spc (M.C23)	9.0	INT	0.0	1.03	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
7179Plnm (M.24)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 8087Mid Flrs

8087NNW Perim Spc (M.NNW13)	8.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
8087West Perim Spc (M.W14)	8.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
8087SW Perim Spc (M.SW15)	8.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
8087South Perim Spc (M.S16)	8.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
8087NE Perim Spc (M.NE17)	8.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
8087ENE Perim Spc (M.ENE18)	8.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
8087SE Perim Spc (M.SE19)	8.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
8087Core Spc (M.C20)	8.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
8087Core Spc (M.C21)	8.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
8087Core Spc (M.C22)	8.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1
8087Core Spc (M.C23)	8.0	INT	0.0	1.03	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
8087Plnm (M.24)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 88Top Flr

88NNW Perim Spc (T.NNW25)	1.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.12	1017.3	14241.9
88West Perim Spc (T.W26)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.06	1321.8	18504.6
88SW Perim Spc (T.SW27)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.19	390.4	5465.3
88South Perim Spc (T.S28)	1.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.13	922.4	12913.9
88NE Perim Spc (T.NE29)	1.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.18	512.2	7170.6
88ENE Perim Spc (T.ENE30)	1.0	EXT	180.0	0.70	1.0	0.24	AIR-CHANGE	0.06	1385.7	19399.1
88SE Perim Spc (T.SE31)	1.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.10	860.7	12050.5
88Core Spc (T.C32)	1.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.00	184.6	2584.7
88Core Spc (T.C33)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.00	233.3	3266.6
88Core Spc (T.C34)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
88Core Spc (T.C35)	1.0	INT	0.0	1.03	1.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
88Plnm (T.36)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 89Ground Flr (rev: 89 + 91)

89NNW Perim Spc (G.NNW1)	2.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
89NE Perim Spc (G.NE2)	2.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
89ESE Perim Spc (G.ESE3)	2.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	717.1	10038.9
89West Perim Spc (G.W4)	2.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1397.4	19564.2
89SW Perim Spc (G.SW5)	2.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
89South Perim Spc (G.S6)	2.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	1002.5	14035.1
89Core Spc (G.C7)	2.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
89Core Spc (G.C8)	2.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
89ESE Perim Spc (G.ESE9)	2.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
89Core Spc (G.C10)	2.0	EXT	-90.0	1.03	3.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
89Plnm (G.11)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	6207.2	12414.4

Spaces on floor: 89DBGround Flr (rev: 89 + 91)

89DBWNW Perim Spc (G.WNW1)	2.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.25	1449.3	45651.4
89DBPlnm (G.2)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.25	1449.3	2898.5

Spaces on floor: 90Ground Flr (rev: 90 + 92)

90NNW Perim Spc (G.NNW1)	2.0	EXT	90.0	0.70	1.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
90NE Perim Spc (G.NE2)	2.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
90ESE Perim Spc (G.ESE3)	2.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.06	717.1	10038.9

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90West Perim Spc (G.W4)	2.0	EXT	0.0	0.70	1.0	0.24	AIR-CHANGE	0.08	1397.4	19564.2
90SW Perim Spc (G.SW5)	2.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
90South Perim Spc (G.S6)	2.0	EXT	-90.0	0.70	1.0	0.24	AIR-CHANGE	0.18	1002.5	14035.1
90Core Spc (G.C7)	2.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
90Core Spc (G.C8)	2.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
90ESE Perim Spc (G.ESE9)	2.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
90Core Spc (G.C10)	2.0	EXT	-90.0	1.03	3.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
90Plnm (G.11)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	6207.2	12414.4

Spaces on floor: 91Ground Flr (rev: 93)

91NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
91NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
91Core Spc (G.C3)	1.0	INT	180.0	0.70	0.0	0.24	AIR-CHANGE	0.00	717.1	10038.9
91West Perim Spc (G.W4)	1.0	EXT	0.0	1.00	5.6	0.25	AIR-CHANGE	0.08	1397.4	19564.2
91SW Perim Spc (G.SW5)	1.0	EXT	90.0	1.00	1.6	0.25	AIR-CHANGE	0.24	390.4	5465.3
91South Perim Spc (G.S6)	1.0	EXT	-90.0	1.00	4.0	0.25	AIR-CHANGE	0.16	1002.5	14035.1
91Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
91Core Spc (G.C8)	1.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
91Core Spc (G.C9)	1.0	INT	0.0	0.00	1.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
91Core Spc (G.C10)	1.0	INT	0.0	1.33	3.2	0.25	AIR-CHANGE	0.00	569.1	7967.1
91ESE Perim Spc (G.ESE11)	1.0	EXT	90.0	1.00	5.8	0.25	AIR-CHANGE	0.15	1449.3	20289.5
91Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9
ERU-91-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 92Ground Flr (rev: 94)

92NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.70	0.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
92NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.70	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
92Core Spc (G.C3)	1.0	INT	180.0	0.70	0.0	0.24	AIR-CHANGE	0.00	717.1	10038.9
92West Perim Spc (G.W4)	1.0	EXT	0.0	1.00	0.0	0.25	AIR-CHANGE	0.08	1397.4	19564.2
92SW Perim Spc (G.SW5)	1.0	EXT	90.0	1.00	1.6	0.25	AIR-CHANGE	0.24	390.4	5465.3
92South Perim Spc (G.S6)	1.0	EXT	-90.0	1.00	4.0	0.25	AIR-CHANGE	0.16	1002.5	14035.1
92Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
92Core Spc (G.C8)	1.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
92Core Spc (G.C9)	1.0	INT	0.0	0.00	1.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
92Core Spc (G.C10)	1.0	INT	0.0	1.00	3.2	0.25	AIR-CHANGE	0.00	569.1	7967.1
92ESE Perim Spc (G.ESE11)	1.0	EXT	90.0	1.00	5.8	0.25	AIR-CHANGE	0.15	1449.3	20289.5
92Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 93MER

93MERSpace	2.0	EXT	0.0	1.00	6.9	0.25	NO-INFILT.	0.00	6889.0	124002.0
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BUILDING TOTALS

7870.3

2096481.0

20073558.0

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NUMBER OF EXTERIOR SURFACES 857

(U-VALUE INCLUDES OUTSIDE FILM; WINDOW INCLUDES FRAME AND CURB, IF DEFINED)

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
68DBNNW Wall (G.WNW1.E5)	0.000	0.00	0.062	366.00	0.062	366.00	NORTH
in space: 68DBNNW Perim Spc (G.WNW1)							
68DBNNW Wall (G.2.E11)	0.000	0.00	0.062	24.40	0.062	24.40	NORTH
in space: 68DBPlnm (G.2)							
Exterior Wall 885	0.000	0.00	0.062	2988.00	0.062	2988.00	NORTH
in space: 93MERSpace							
GNNE Wall (G.NNE3.E5)	0.000	0.00	0.062	1290.08	0.062	1290.08	NORTH
in space: GNNE Perim Spc (G.NNE3)							
6MCNNE Wall (G.N2.E5)	0.000	0.00	0.062	3767.56	0.062	3767.56	NORTH
in space: 6MCNorth Perim Spc (G.N2)							
GNNE Wall (G.18.E29)	0.000	0.00	0.062	42.10	0.062	42.10	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E31)	0.000	0.00	0.062	137.60	0.062	137.60	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E32)	0.000	0.00	0.062	162.40	0.062	162.40	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E34)	0.000	0.00	0.062	172.00	0.062	172.00	NORTH
in space: GPlnm (G.18)							
1MNNE Wall (G.NW1.E2)	0.502	108.00	0.062	12.00	0.458	120.00	NORTH
in space: 1MNW Perim Spc (G.NW1)							
1MNNE Wall (G.N2.E3)	0.000	0.00	0.062	837.20	0.062	837.20	NORTH
in space: 1MNNorth Perim Spc (G.N2)							
1MNNE Wall (G.NNE6.E11)	0.502	1114.92	0.062	123.88	0.458	1238.80	NORTH
in space: 1MNNE Perim Spc (G.NNE6)							
25NNE Wall (G.NW1.E2)	0.502	249.38	0.062	13.13	0.480	262.50	NORTH
in space: 25NW Perim Spc (G.NW1)							
25NNE Wall (G.N2.E3)	0.000	0.00	0.062	1831.38	0.062	1831.38	NORTH
in space: 25North Perim Spc (G.N2)							
25NNE Wall (G.NNE11.E14)	0.502	1807.98	0.062	95.15	0.480	1903.13	NORTH
in space: 25NNE Perim Spc (G.NNE11)							
Exterior Wall 888	0.502	625.00	0.062	275.00	0.367	900.00	NORTH
in space: 25NNE Perim Spc (G.NNE11)							
25NNE Wall (G.NNE12.E15)	0.502	766.41	0.062	40.34	0.480	806.75	NORTH
in space: 25NNE Perim Spc (G.NNE12)							
25NNE Wall (M.NW17.E17)	0.502	498.75	0.062	26.25	0.480	525.00	NORTH
in space: 25NW Perim Spc (M.NW17)							
25NNE Wall (M.N18.E18)	0.000	0.00	0.062	3662.75	0.062	3662.75	NORTH
in space: 25North Perim Spc (M.N18)							
25NNE Wall (M.NNE27.E29)	0.502	3615.96	0.062	190.29	0.480	3806.25	NORTH
in space: 25NNE Perim Spc (M.NNE27)							
Exterior Wall 890	0.502	1250.00	0.062	550.00	0.367	1800.00	NORTH
in space: 25NNE Perim Spc (M.NNE27)							
25NNE Wall (M.NNE28.E30)	0.502	1532.83	0.062	80.67	0.480	1613.50	NORTH
in space: 25NNE Perim Spc (M.NNE28)							
25NNE Wall (T.NW33.E32)	0.502	249.38	0.062	13.13	0.480	262.50	NORTH
in space: 25NW Perim Spc (T.NW33)							
25NNE Wall (T.N34.E33)	0.000	0.00	0.062	1831.38	0.062	1831.38	NORTH
in space: 25North Perim Spc (T.N34)							

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25NNE Wall (T.NNE43.E44)	0.502	1807.98	0.062	95.15	0.480	1903.13	NORTH
in space: 25NNE Perim Spc (T.NNE43)							
Exterior Wall 892	0.502	625.00	0.062	275.00	0.367	900.00	NORTH
in space: 25NNE Perim Spc (T.NNE43)							
25NNE Wall (T.NNE44.E45)	0.502	766.41	0.062	40.34	0.480	806.75	NORTH
in space: 25NNE Perim Spc (T.NNE44)							
GNNE Wall (G.NW1.E2)	0.502	188.81	0.062	21.19	0.457	210.00	NORTH
in space: GNW Perim Spc (G.NW1)							
6MCNNE Wall (G.NW3.E7)	0.000	0.00	0.062	540.00	0.062	540.00	NORTH
in space: 6MCNW Perim Spc (G.NW3)							
6MCNNE Wall (G.NNE4.E8)	0.000	0.00	0.062	5574.60	0.062	5574.60	NORTH
in space: 6MCNNE Perim Spc (G.NNE4)							
6MCNNE Wall (G.11.E14)	0.000	0.00	0.062	339.70	0.062	339.70	NORTH
in space: 6MCPlnm (G.11)							
6MCNNE Wall (G.11.E16)	0.000	0.00	0.062	209.30	0.062	209.30	NORTH
in space: 6MCPlnm (G.11)							
Exterior Wall 895	0.000	0.00	0.062	1080.00	0.062	1080.00	NORTH
in space: 6MC Top Spc							
8ANNE Wall (G.NW1.E2)	0.000	0.00	0.062	387.60	0.062	387.60	NORTH
in space: 8ANW Perim Spc (G.NW1)							
8ANNE Wall (G.WSW2.E6)	0.502	262.50	0.062	1543.50	0.126	1806.00	NORTH
in space: 8AWSW Perim Spc (G.WSW2)							
8ANNE Wall (G.NNE3.E8)	0.000	0.00	0.062	204.00	0.062	204.00	NORTH
in space: 8ANNE Perim Spc (G.NNE3)							
8ANNE Wall (G.NNE5.E9)	0.000	0.00	0.062	429.60	0.062	429.60	NORTH
in space: 8ANNE Perim Spc (G.NNE5)							
8ANNE Wall (G.NNE7.E10)	0.000	0.00	0.062	252.00	0.062	252.00	NORTH
in space: 8ANNE Perim Spc (G.NNE7)							
8ANNE Wall (G.ESE12.E17)	0.000	0.00	0.062	109.20	0.062	109.20	NORTH
in space: 8AESE Perim Spc (G.ESE12)							
8MCNNE Wall (G.NNE1.E3)	0.000	0.00	0.062	597.00	0.062	597.00	NORTH
in space: 8MANNE Perim Spc (G.NNE1)							
8MCNNE Wall (G.SSW2.E6)	0.000	0.00	0.062	846.00	0.062	846.00	NORTH
in space: 8MASSW Perim Spc (G.SSW2)							
10ANNE Wall (G.N8.E12)	0.502	936.81	0.062	401.59	0.370	1338.40	NORTH
in space: 10ANorth Perim Spc (G.N8)							
10ANNE Wall (G.ENE9.E13)	0.502	365.02	0.062	156.48	0.370	521.50	NORTH
in space: 10AENE Perim Spc (G.ENE9)							
10ANNE Wall (G.10.E20)	0.000	0.00	0.062	5535.86	0.062	5535.86	NORTH
in space: 10APlnm (G.10)							
10MNNE Wall (G.N8.E12)	0.000	0.00	0.062	5576.35	0.062	5576.35	NORTH
in space: 10MNorth Perim Spc (G.N8)							
10MNNE Wall (G.ENE9.E13)	0.000	0.00	0.062	2172.79	0.062	2172.79	NORTH
in space: 10MENE Perim Spc (G.ENE9)							
11MCNNE Wall (G.NNE1.E4)	0.000	0.00	0.062	3807.41	0.062	3807.41	NORTH
in space: 11MCNNE Perim Spc (G.NNE1)							
11DBNNE Wall (G.WNW1.E4)	0.000	0.00	0.062	2126.45	0.062	2126.45	NORTH
in space: 11DBWNW Perim Spc (G.WNW1)							
1519NNE Wall (G.WNW6.E3)	0.502	890.48	0.062	77.02	0.467	967.50	NORTH
in space: 1519WNW Perim Spc (G.WNW6)							
1519NNE Wall (G.NNE7.E4)	0.502	2839.17	0.062	246.33	0.467	3085.50	NORTH
in space: 1519NNE Perim Spc (G.NNE7)							
1519NNE Wall (G.E8.E6)	0.532	766.24	0.062	0.26	0.532	766.50	NORTH
in space: 1519East Perim Spc (G.E8)							
1519NNE Wall (G.14.E23)	0.000	0.00	0.062	867.51	0.062	867.51	NORTH
in space: 1519Plnm (G.14)							
1519NNE Wall (M.WNW20.E26)	0.502	1484.13	0.062	128.37	0.467	1612.50	NORTH
in space: 1519WNW Perim Spc (M.WNW20)							

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1519NNE Wall (M.NNE21.E27)	0.502	4731.96	0.062	410.54	0.467	5142.50	NORTH
in space: 1519NNE Perim Spc (M.NNE21)							
1519NNE Wall (M.E22.E29)	0.532	1277.07	0.062	0.43	0.532	1277.50	NORTH
in space: 1519East Perim Spc (M.E22)							
1519NNE Wall (M.28.E46)	0.000	0.00	0.062	1445.85	0.062	1445.85	NORTH
in space: 1519Plnm (M.28)							
1519NNE Wall (T.WNW34.E49)	0.502	296.83	0.062	154.67	0.351	451.50	NORTH
in space: 1519WNW Perim Spc (T.WNW34)							
1519NNE Wall (T.NNE35.E50)	0.502	946.39	0.062	493.51	0.351	1439.90	NORTH
in space: 1519NNE Perim Spc (T.NNE35)							
1519NNE Wall (T.E36.E52)	0.531	265.41	0.062	92.29	0.410	357.70	NORTH
in space: 1519East Perim Spc (T.E36)							
1519NNE Wall (T.42.E69)	0.000	0.00	0.062	289.17	0.062	289.17	NORTH
in space: 1519Plnm (T.42)							
2026NNE Wall (G.E6.E1)	0.531	265.41	0.062	92.29	0.410	357.70	NORTH
in space: 2026East Perim Spc (G.E6)							
2026NNE Wall (G.WNW7.E5)	0.502	296.83	0.062	154.67	0.351	451.50	NORTH
in space: 2026WNW Perim Spc (G.WNW7)							
2026NNE Wall (G.NNE8.E6)	0.502	946.39	0.062	493.51	0.351	1439.90	NORTH
in space: 2026NNE Perim Spc (G.NNE8)							
2026NNE Wall (G.14.E20)	0.000	0.00	0.062	289.17	0.062	289.17	NORTH
in space: 2026Plnm (G.14)							
2026NNE Wall (M.E20.E21)	0.532	1277.07	0.062	0.43	0.532	1277.50	NORTH
in space: 2026East Perim Spc (M.E20)							
2026NNE Wall (M.WNW21.E25)	0.502	1484.13	0.062	128.37	0.467	1612.50	NORTH
in space: 2026WNW Perim Spc (M.WNW21)							
2026NNE Wall (M.NNE22.E26)	0.502	4731.96	0.062	410.54	0.467	5142.50	NORTH
in space: 2026NNE Perim Spc (M.NNE22)							
2026NNE Wall (M.28.E40)	0.000	0.00	0.062	1445.85	0.062	1445.85	NORTH
in space: 2026Plnm (M.28)							
2026NNE Wall (T.E34.E41)	0.531	265.41	0.062	92.29	0.410	357.70	NORTH
in space: 2026East Perim Spc (T.E34)							
2026NNE Wall (T.WNW35.E45)	0.502	296.83	0.062	154.67	0.351	451.50	NORTH
in space: 2026WNW Perim Spc (T.WNW35)							
2026NNE Wall (T.NNE36.E46)	0.502	946.39	0.062	493.51	0.351	1439.90	NORTH
in space: 2026NNE Perim Spc (T.NNE36)							
2026NNE Wall (T.42.E60)	0.000	0.00	0.062	289.17	0.062	289.17	NORTH
in space: 2026Plnm (T.42)							
27MCNNE Wall (G.E6.E1)	0.000	0.00	0.062	459.90	0.062	459.90	NORTH
in space: 27MCEast Perim Spc (G.E6)							
27MCNNE Wall (G.WNW7.E5)	0.000	0.00	0.062	580.50	0.062	580.50	NORTH
in space: 27MCWNW Perim Spc (G.WNW7)							
27MCNNE Wall (G.NNE8.E6)	0.000	0.00	0.062	1851.30	0.062	1851.30	NORTH
in space: 27MCNNE Perim Spc (G.NNE8)							
28NNE Wall (G.NNW5.E2)	0.502	328.78	0.062	191.32	0.340	520.10	NORTH
in space: 28NNW Perim Spc (G.NNW5)							
28NNE Wall (G.NNE6.E3)	0.502	329.66	0.062	191.84	0.340	521.50	NORTH
in space: 28NNE Perim Spc (G.NNE6)							
28NNE Wall (G.E7.E4)	0.533	245.00	0.062	112.70	0.385	357.70	NORTH
in space: 28East Perim Spc (G.E7)							
28NNE Wall (G.13.E16)	0.000	0.00	0.062	199.90	0.062	199.90	NORTH
in space: 28Plnm (G.13)							
2936NNE Wall (M.NNW18.E18)	0.502	2630.22	0.062	282.34	0.459	2912.56	NORTH
in space: 2936NNW Perim Spc (M.NNW18)							
2936NNE Wall (M.NNE19.E19)	0.502	2637.30	0.062	283.10	0.459	2920.40	NORTH
in space: 2936NNE Perim Spc (M.NNE19)							
2936NNE Wall (M.E20.E20)	0.533	1960.00	0.062	43.12	0.523	2003.12	NORTH
in space: 2936East Perim Spc (M.E20)							

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2936NNE Wall (M.26.E32)	0.000	0.00	0.062	1599.20	0.062	1599.20	NORTH
in space: 2936Plnm (M.26)							
3744NNE Wall (M.NNW18.E18)	0.502	2630.22	0.062	282.34	0.459	2912.56	NORTH
in space: 3744NNW Perim Spc (M.NNW18)							
3744NNE Wall (M.NNE19.E19)	0.502	2637.30	0.062	283.10	0.459	2920.40	NORTH
in space: 3744NNE Perim Spc (M.NNE19)							
3744NNE Wall (M.E20.E20)	0.533	1960.00	0.062	43.12	0.523	2003.12	NORTH
in space: 3744East Perim Spc (M.E20)							
3744NNE Wall (M.26.E32)	0.000	0.00	0.062	1599.20	0.062	1599.20	NORTH
in space: 3744Plnm (M.26)							
45NNE Wall (T.NNW31.E34)	0.502	328.78	0.062	191.32	0.340	520.10	NORTH
in space: 45NNW Perim Spc (T.NNW31)							
45NNE Wall (T.NNE32.E35)	0.502	329.66	0.062	191.84	0.340	521.50	NORTH
in space: 45NNE Perim Spc (T.NNE32)							
45NNE Wall (T.E33.E36)	0.533	245.00	0.062	112.70	0.385	357.70	NORTH
in space: 45East Perim Spc (T.E33)							
45NNE Wall (T.39.E48)	0.000	0.00	0.062	199.90	0.062	199.90	NORTH
in space: 45Plnm (T.39)							
46MCNNE Wall (T.NNW31.E34)	0.000	0.00	0.062	668.70	0.062	668.70	NORTH
in space: 46MCNNW Perim Spc (T.NNW31)							
46MCNNE Wall (T.NNE32.E35)	0.000	0.00	0.062	670.50	0.062	670.50	NORTH
in space: 46MCNNE Perim Spc (T.NNE32)							
46MCNNE Wall (T.E33.E36)	0.000	0.00	0.062	459.90	0.062	459.90	NORTH
in space: 46MCEast Perim Spc (T.E33)							
46MCNNE Wall (T.39.E48)	0.000	0.00	0.062	199.90	0.062	199.90	NORTH
in space: 46MCPlnm (T.39)							
47NNE Wall (G.NNW1.E2)	0.502	249.60	0.062	42.00	0.438	291.60	NORTH
in space: 47NNW Perim Spc (G.NNW1)							
47NNE Wall (G.NNW1.E4)	0.502	93.83	0.062	15.79	0.438	109.62	NORTH
in space: 47NNW Perim Spc (G.NNW1)							
47NNE Wall (G.ENE7.E15)	0.531	265.41	0.062	31.59	0.481	297.00	NORTH
in space: 47ENE Perim Spc (G.ENE7)							
47NNE Wall (G.NE8.E17)	0.502	326.33	0.062	54.91	0.438	381.24	NORTH
in space: 47NE Perim Spc (G.NE8)							
47NNE Wall (G.13.E23)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 47Plnm (G.13)							
47NNE Wall (G.13.E25)	0.000	0.00	0.062	124.60	0.062	124.60	NORTH
in space: 47Plnm (G.13)							
47NNE Wall (G.13.E27)	0.000	0.00	0.062	20.30	0.062	20.30	NORTH
in space: 47Plnm (G.13)							
4856NNE Wall (M.NNW14.E29)	0.502	2246.38	0.062	378.02	0.438	2624.40	NORTH
in space: 4856NNW Perim Spc (M.NNW14)							
4856NNE Wall (M.NNW14.E31)	0.502	844.47	0.062	142.11	0.438	986.58	NORTH
in space: 4856NNW Perim Spc (M.NNW14)							
4856NNE Wall (M.ENE20.E41)	0.531	2388.72	0.062	284.28	0.481	2673.00	NORTH
in space: 4856ENE Perim Spc (M.ENE20)							
4856NNE Wall (M.NE21.E43)	0.502	2936.93	0.062	494.23	0.438	3431.16	NORTH
in space: 4856NE Perim Spc (M.NE21)							
4856NNE Wall (M.26.E49)	0.000	0.00	0.062	495.00	0.062	495.00	NORTH
in space: 4856Plnm (M.26)							
4856NNE Wall (M.26.E51)	0.000	0.00	0.062	1121.40	0.062	1121.40	NORTH
in space: 4856Plnm (M.26)							
4856NNE Wall (M.26.E53)	0.000	0.00	0.062	182.70	0.062	182.70	NORTH
in space: 4856Plnm (M.26)							
5765NNE Wall (M.NNW14.E29)	0.502	2246.38	0.062	378.02	0.438	2624.40	NORTH
in space: 5765NNW Perim Spc (M.NNW14)							
5765NNE Wall (M.NNW14.E31)	0.502	844.47	0.062	142.11	0.438	986.58	NORTH
in space: 5765NNW Perim Spc (M.NNW14)							

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5765NNE Wall (M.ENE20.E41)	0.531	2388.72	0.062	284.28	0.481	2673.00	NORTH
in space: 5765ENE Perim Spc (M.ENE20)							
5765NNE Wall (M.NE21.E43)	0.502	2936.93	0.062	494.23	0.438	3431.16	NORTH
in space: 5765NE Perim Spc (M.NE21)							
5765NNE Wall (M.26.E49)	0.000	0.00	0.062	495.00	0.062	495.00	NORTH
in space: 5765Plnm (M.26)							
5765NNE Wall (M.26.E51)	0.000	0.00	0.062	1121.40	0.062	1121.40	NORTH
in space: 5765Plnm (M.26)							
5765NNE Wall (M.26.E53)	0.000	0.00	0.062	182.70	0.062	182.70	NORTH
in space: 5765Plnm (M.26)							
66NNE Wall (T.NNW27.E55)	0.502	249.60	0.062	128.40	0.352	378.00	NORTH
in space: 66NNW Perim Spc (T.NNW27)							
66NNE Wall (T.NNW27.E57)	0.502	93.83	0.062	48.27	0.352	142.10	NORTH
in space: 66NNW Perim Spc (T.NNW27)							
66NNE Wall (T.ENE33.E67)	0.531	265.41	0.062	119.59	0.385	385.00	NORTH
in space: 66ENE Perim Spc (T.ENE33)							
66NNE Wall (T.NE34.E69)	0.502	326.33	0.062	167.87	0.352	494.20	NORTH
in space: 66NE Perim Spc (T.NE34)							
66NNE Wall (T.39.E75)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 66Plnm (T.39)							
66NNE Wall (T.39.E77)	0.000	0.00	0.062	124.60	0.062	124.60	NORTH
in space: 66Plnm (T.39)							
66NNE Wall (T.39.E79)	0.000	0.00	0.062	20.30	0.062	20.30	NORTH
in space: 66Plnm (T.39)							
67MCNNE Wall (G.NNW1.E2)	0.000	0.00	0.062	756.00	0.062	756.00	NORTH
in space: 67MCNNW Perim Spc (G.NNW1)							
67MCNNE Wall (G.NNW1.E4)	0.000	0.00	0.062	284.20	0.062	284.20	NORTH
in space: 67MCNNW Perim Spc (G.NNW1)							
67MCNNE Wall (G.ENE7.E14)	0.000	0.00	0.062	770.00	0.062	770.00	NORTH
in space: 67MCENE Perim Spc (G.ENE7)							
67MCNNE Wall (G.NE8.E16)	0.000	0.00	0.062	988.40	0.062	988.40	NORTH
in space: 67MCNE Perim Spc (G.NE8)							
68NNE Wall (G.NNW1.E2)	0.502	230.38	0.062	38.42	0.439	268.80	NORTH
in space: 68NNW Perim Spc (G.NNW1)							
68NNE Wall (G.NNW1.E4)	0.502	191.99	0.062	32.01	0.439	224.00	NORTH
in space: 68NNW Perim Spc (G.NNW1)							
68NNE Wall (G.NE2.E6)	0.502	446.97	0.062	74.53	0.439	521.50	NORTH
in space: 68NE Perim Spc (G.NE2)							
68NNE Wall (G.ESE3.E12)	0.526	350.00	0.062	35.00	0.484	385.00	NORTH
in space: 68ESE Perim Spc (G.ESE3)							
68NNE Wall (G.11.E30)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 68Plnm (G.11)							
68NNE Wall (G.11.E32)	0.000	0.00	0.062	112.90	0.062	112.90	NORTH
in space: 68Plnm (G.11)							
68NNE Wall (G.11.E34)	0.000	0.00	0.062	32.00	0.062	32.00	NORTH
in space: 68Plnm (G.11)							
68DBNNE Wall (G.WNW1.E4)	0.000	0.00	0.062	105.00	0.062	105.00	NORTH
in space: 68DBWNW Perim Spc (G.WNW1)							
GNNE Wall (G.E6.E10)	0.502	283.89	0.062	31.76	0.457	315.65	NORTH
in space: GEast Perim Spc (G.E6)							
68DBNNE Wall (G.WNW1.E6)	0.000	0.00	0.062	456.00	0.062	456.00	NORTH
in space: 68DBWNW Perim Spc (G.WNW1)							
68DBNNE Wall (G.2.E10)	0.000	0.00	0.062	7.00	0.062	7.00	NORTH
in space: 68DBPlnm (G.2)							
GNNE Wall (G.NNE7.E11)	0.502	667.59	0.062	74.91	0.457	742.50	NORTH
in space: GNNE Perim Spc (G.NNE7)							
68DBNNE Wall (G.2.E12)	0.000	0.00	0.062	30.40	0.062	30.40	NORTH
in space: 68DBPlnm (G.2)							

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69NNE Wall (G.NNW1.E2)	0.502	230.38	0.062	38.42	0.439	268.80	NORTH
in space: 69NNW Perim Spc (G.NNW1)							
69NNE Wall (G.NNW1.E4)	0.502	191.99	0.062	32.01	0.439	224.00	NORTH
in space: 69NNW Perim Spc (G.NNW1)							
69NNE Wall (G.NE2.E6)	0.502	446.97	0.062	74.53	0.439	521.50	NORTH
in space: 69NE Perim Spc (G.NE2)							
69NNE Wall (G.ESE3.E12)	0.526	350.00	0.062	35.00	0.484	385.00	NORTH
in space: 69ESE Perim Spc (G.ESE3)							
69NNE Wall (G.11.E30)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 69Plnm (G.11)							
69NNE Wall (G.11.E32)	0.000	0.00	0.062	112.90	0.062	112.90	NORTH
in space: 69Plnm (G.11)							
69NNE Wall (G.11.E34)	0.000	0.00	0.062	32.00	0.062	32.00	NORTH
in space: 69Plnm (G.11)							
70NNE Wall (G.NNW1.E2)	0.502	147.91	0.062	24.89	0.438	172.80	NORTH
in space: 70NNW Perim Spc (G.NNW1)							
70NNE Wall (G.NNW1.E4)	0.502	177.49	0.062	29.87	0.438	207.36	NORTH
in space: 70NNW Perim Spc (G.NNW1)							
70NNE Wall (G.NE5.E12)	0.502	344.35	0.062	57.95	0.438	402.30	NORTH
in space: 70NE Perim Spc (G.NE5)							
70NNE Wall (G.ENE6.E13)	0.531	265.41	0.062	31.59	0.481	297.00	NORTH
in space: 70ENE Perim Spc (G.ENE6)							
70NNE Wall (G.12.E24)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 70Plnm (G.12)							
70NNE Wall (G.12.E26)	0.000	0.00	0.062	112.90	0.062	112.90	NORTH
in space: 70Plnm (G.12)							
70NNE Wall (G.12.E28)	0.000	0.00	0.062	32.00	0.062	32.00	NORTH
in space: 70Plnm (G.12)							
7179NNE Wall (M.NNW13.E30)	0.502	1331.19	0.062	224.01	0.438	1555.20	NORTH
in space: 7179NNW Perim Spc (M.NNW13)							
7179NNE Wall (M.NNW13.E32)	0.502	1597.43	0.062	268.81	0.438	1866.24	NORTH
in space: 7179NNW Perim Spc (M.NNW13)							
7179NNE Wall (M.NE17.E40)	0.502	3099.17	0.062	521.53	0.438	3620.70	NORTH
in space: 7179NE Perim Spc (M.NE17)							
7179NNE Wall (M.ENE18.E41)	0.531	2388.72	0.062	284.28	0.481	2673.00	NORTH
in space: 7179ENE Perim Spc (M.ENE18)							
7179NNE Wall (M.24.E52)	0.000	0.00	0.062	495.00	0.062	495.00	NORTH
in space: 7179Plnm (M.24)							
7179NNE Wall (M.24.E54)	0.000	0.00	0.062	1016.10	0.062	1016.10	NORTH
in space: 7179Plnm (M.24)							
7179NNE Wall (M.24.E56)	0.000	0.00	0.062	288.00	0.062	288.00	NORTH
in space: 7179Plnm (M.24)							
8087NNE Wall (M.NNW13.E30)	0.502	1183.28	0.062	199.12	0.438	1382.40	NORTH
in space: 8087NNW Perim Spc (M.NNW13)							
8087NNE Wall (M.NNW13.E32)	0.502	1474.56	0.062	184.32	0.453	1658.88	NORTH
in space: 8087NNW Perim Spc (M.NNW13)							
8087NNE Wall (M.NE17.E40)	0.502	2754.82	0.062	463.58	0.438	3218.40	NORTH
in space: 8087NE Perim Spc (M.NE17)							
8087NNE Wall (M.ENE18.E41)	0.531	2123.31	0.062	252.69	0.481	2376.00	NORTH
in space: 8087ENE Perim Spc (M.ENE18)							
8087NNE Wall (M.24.E52)	0.000	0.00	0.062	440.00	0.062	440.00	NORTH
in space: 8087Plnm (M.24)							
8087NNE Wall (M.24.E54)	0.000	0.00	0.062	903.20	0.062	903.20	NORTH
in space: 8087Plnm (M.24)							
8087NNE Wall (M.24.E56)	0.000	0.00	0.062	256.00	0.062	256.00	NORTH
in space: 8087Plnm (M.24)							
88NNE Wall (T.NNW25.E58)	0.502	147.91	0.062	76.09	0.352	224.00	NORTH
in space: 88NNW Perim Spc (T.NNW25)							

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88NNE Wall (T.NNW25.E60)	0.502	177.49	0.062	91.31	0.352	268.80	NORTH
in space: 88NNW Perim Spc (T.NNW25)							
88NNE Wall (T.NE29.E68)	0.502	344.35	0.062	177.15	0.352	521.50	NORTH
in space: 88NE Perim Spc (T.NE29)							
88NNE Wall (T.ENE30.E69)	0.531	265.41	0.062	119.59	0.385	385.00	NORTH
in space: 88ENE Perim Spc (T.ENE30)							
88NNE Wall (T.36.E80)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 88Plnm (T.36)							
88NNE Wall (T.36.E82)	0.000	0.00	0.062	112.90	0.062	112.90	NORTH
in space: 88Plnm (T.36)							
88NNE Wall (T.36.E84)	0.000	0.00	0.062	32.00	0.062	32.00	NORTH
in space: 88Plnm (T.36)							
89NNE Wall (G.NNW1.E2)	0.502	460.77	0.062	76.83	0.439	537.60	NORTH
in space: 89NNW Perim Spc (G.NNW1)							
89NNE Wall (G.NNW1.E4)	0.502	383.97	0.062	64.03	0.439	448.00	NORTH
in space: 89NNW Perim Spc (G.NNW1)							
89NNE Wall (G.NE2.E6)	0.502	893.94	0.062	149.06	0.439	1043.00	NORTH
in space: 89NE Perim Spc (G.NE2)							
89NNE Wall (G.S6.E13)	0.000	0.00	0.062	284.20	0.062	284.20	NORTH
in space: 89South Perim Spc (G.S6)							
89NNE Wall (G.11.E22)	0.000	0.00	0.062	40.60	0.062	40.60	NORTH
in space: 89Plnm (G.11)							
89NNE Wall (G.11.E25)	0.000	0.00	0.062	225.80	0.062	225.80	NORTH
in space: 89Plnm (G.11)							
89NNE Wall (G.11.E27)	0.000	0.00	0.062	64.00	0.062	64.00	NORTH
in space: 89Plnm (G.11)							
89DBNNE Wall (G.WNW1.E4)	0.502	1250.00	0.062	482.50	0.379	1732.50	NORTH
in space: 89DBWNW Perim Spc (G.WNW1)							
89DBNNE Wall (G.2.E8)	0.000	0.00	0.062	110.00	0.062	110.00	NORTH
in space: 89DBPlnm (G.2)							
90NNE Wall (G.NNW1.E2)	0.502	460.77	0.062	76.83	0.439	537.60	NORTH
in space: 90NNW Perim Spc (G.NNW1)							
90NNE Wall (G.NNW1.E4)	0.502	383.97	0.062	64.03	0.439	448.00	NORTH
in space: 90NNW Perim Spc (G.NNW1)							
90NNE Wall (G.NE2.E6)	0.502	893.94	0.062	149.06	0.439	1043.00	NORTH
in space: 90NE Perim Spc (G.NE2)							
90NNE Wall (G.S6.E13)	0.000	0.00	0.062	284.20	0.062	284.20	NORTH
in space: 90South Perim Spc (G.S6)							
90NNE Wall (G.11.E22)	0.000	0.00	0.062	40.60	0.062	40.60	NORTH
in space: 90Plnm (G.11)							
90NNE Wall (G.11.E25)	0.000	0.00	0.062	225.80	0.062	225.80	NORTH
in space: 90Plnm (G.11)							
90NNE Wall (G.11.E27)	0.000	0.00	0.062	64.00	0.062	64.00	NORTH
in space: 90Plnm (G.11)							
91NNE Wall (G.NNW1.E2)	0.530	238.00	0.062	30.80	0.477	268.80	NORTH
in space: 91NNW Perim Spc (G.NNW1)							
91NNE Wall (G.NNW1.E4)	0.532	210.00	0.062	14.00	0.502	224.00	NORTH
in space: 91NNW Perim Spc (G.NNW1)							
91NNE Wall (G.NE2.E6)	0.524	490.00	0.062	31.50	0.496	521.50	NORTH
in space: 91NE Perim Spc (G.NE2)							
91NNE Wall (G.ESE11.E15)	0.000	0.00	0.062	385.00	0.062	385.00	NORTH
in space: 91ESE Perim Spc (G.ESE11)							
91NNE Wall (G.12.E23)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 91Plnm (G.12)							
91NNE Wall (G.12.E25)	0.000	0.00	0.062	112.90	0.062	112.90	NORTH
in space: 91Plnm (G.12)							
91NNE Wall (G.12.E27)	0.000	0.00	0.062	32.00	0.062	32.00	NORTH
in space: 91Plnm (G.12)							

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92NNE Wall (G.NNW1.E2)	0.530	238.00	0.062	30.80	0.477	268.80	NORTH
in space: 92NNW Perim Spc (G.NNW1)							
92NNE Wall (G.NNW1.E4)	0.532	210.00	0.062	14.00	0.502	224.00	NORTH
in space: 92NNW Perim Spc (G.NNW1)							
92NNE Wall (G.NE2.E6)	0.524	490.00	0.062	31.50	0.496	521.50	NORTH
in space: 92NE Perim Spc (G.NE2)							
92NNE Wall (G.ESE11.E15)	0.000	0.00	0.062	385.00	0.062	385.00	NORTH
in space: 92ESE Perim Spc (G.ESE11)							
92NNE Wall (G.12.E23)	0.000	0.00	0.062	55.00	0.062	55.00	NORTH
in space: 92Plnm (G.12)							
92NNE Wall (G.12.E25)	0.000	0.00	0.062	112.90	0.062	112.90	NORTH
in space: 92Plnm (G.12)							
92NNE Wall (G.12.E27)	0.000	0.00	0.062	32.00	0.062	32.00	NORTH
in space: 92Plnm (G.12)							
GNNE Wall (G.NNE15.E21)	0.502	927.88	0.062	104.12	0.457	1032.00	NORTH
in space: GNNE Perim Spc (G.NNE15)							
GNNE Wall (G.NW2.E3)	0.502	238.71	0.062	26.77	0.457	265.48	NORTH
in space: GNW Perim Spc (G.NW2)							
Exterior Wall 884	0.000	0.00	0.062	2988.00	0.062	2988.00	EAST
in space: 93MERSpace							
25ESE Wall (G.ESE9.E12)	0.000	0.00	0.062	1870.76	0.062	1870.76	EAST
in space: 25ESE Perim Spc (G.ESE9)							
25ESE Wall (T.ESE41.E42)	0.000	0.00	0.062	1870.76	0.062	1870.76	EAST
in space: 25ESE Perim Spc (T.ESE41)							
GESE Wall (G.E6.E9)	0.000	0.00	0.062	591.00	0.062	591.00	EAST
in space: GEast Perim Spc (G.E6)							
1MESE Wall (G.ESE7.E12)	0.000	0.00	0.062	1562.76	0.062	1562.76	EAST
in space: 1MESE Perim Spc (G.ESE7)							
25ESE Wall (M.ESE25.E27)	0.000	0.00	0.062	3741.51	0.062	3741.51	EAST
in space: 25ESE Perim Spc (M.ESE25)							
5765ESE Wall (M.ESE19.E39)	0.502	2223.08	0.062	1023.40	0.363	3246.48	EAST
in space: 5765ESE Perim Spc (M.ESE19)							
5765ESE Wall (M.ENE20.E40)	0.502	1557.49	0.062	716.99	0.363	2274.48	EAST
in space: 5765ENE Perim Spc (M.ENE20)							
2026ESE Wall (G.ESE10.E9)	0.502	245.93	0.062	221.67	0.293	467.60	EAST
in space: 2026ESE Perim Spc (G.ESE10)							
5765ESE Wall (M.NE21.E42)	0.502	725.50	0.062	333.98	0.363	1059.48	EAST
in space: 5765NE Perim Spc (M.NE21)							
2026ESE Wall (G.S13.E13)	0.502	114.86	0.062	103.54	0.293	218.40	EAST
in space: 2026South Perim Spc (G.S13)							
5765ESE Wall (M.26.E48)	0.000	0.00	0.062	1380.60	0.062	1380.60	EAST
in space: 5765Plnm (M.26)							
2026ESE Wall (G.14.E19)	0.000	0.00	0.062	157.68	0.062	157.68	EAST
in space: 2026Plnm (G.14)							
5765ESE Wall (M.26.E50)	0.000	0.00	0.062	196.20	0.062	196.20	EAST
in space: 5765Plnm (M.26)							
10AESE Wall (G.10.E19)	0.000	0.00	0.062	4896.22	0.062	4896.22	EAST
in space: 10APlnm (G.10)							
GESE Wall (G.ESE11.E16)	0.000	0.00	0.062	1724.25	0.062	1724.25	EAST
in space: GESE Perim Spc (G.ESE11)							
2026ESE Wall (M.E20.E22)	0.502	1421.08	0.062	508.92	0.386	1930.00	EAST
in space: 2026East Perim Spc (M.E20)							
10MESE Wall (G.ESE4.E4)	0.000	0.00	0.062	901.20	0.062	901.20	EAST
in space: 10MESE Perim Spc (G.ESE4)							
66ESE Wall (T.SSE31.E63)	0.502	147.17	0.062	131.43	0.294	278.60	EAST
in space: 66SSE Perim Spc (T.SSE31)							
66ESE Wall (T.ESE32.E65)	0.502	247.01	0.062	220.59	0.294	467.60	EAST
in space: 66ESE Perim Spc (T.ESE32)							

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66ESE Wall (T.ENE33.E66)	0.502	173.05	0.062	154.55	0.294	327.60	EAST
in space: 66ENE Perim Spc (T.ENE33)							
10MESE Wall (G.ESE6.E5)	0.000	0.00	0.062	1047.02	0.062	1047.02	EAST
in space: 10MESE Perim Spc (G.ESE6)							
66ESE Wall (T.NE34.E68)	0.502	80.61	0.062	71.99	0.294	152.60	EAST
in space: 66NE Perim Spc (T.NE34)							
2026ESE Wall (M.ESE24.E29)	0.502	1229.64	0.062	440.36	0.386	1670.00	EAST
in space: 2026ESE Perim Spc (M.ESE24)							
66ESE Wall (T.39.E74)	0.000	0.00	0.062	153.40	0.062	153.40	EAST
in space: 66Plnm (T.39)							
2026ESE Wall (M.S27.E33)	0.502	574.32	0.062	205.68	0.386	780.00	EAST
in space: 2026South Perim Spc (M.S27)							
66ESE Wall (T.39.E76)	0.000	0.00	0.062	21.80	0.062	21.80	EAST
in space: 66Plnm (T.39)							
2026ESE Wall (M.28.E39)	0.000	0.00	0.062	788.40	0.062	788.40	EAST
in space: 2026Plnm (M.28)							
10MESE Wall (G.SSW7.E7)	0.000	0.00	0.062	2557.77	0.062	2557.77	EAST
in space: 10MSSW Perim Spc (G.SSW7)							
Exterior Wall 894	0.000	0.00	0.062	1080.00	0.062	1080.00	EAST
in space: 6MC Top Spc							
2026ESE Wall (T.E34.E42)	0.533	217.64	0.062	322.76	0.252	540.40	EAST
in space: 2026East Perim Spc (T.E34)							
67MCESE Wall (G.SSE5.E10)	0.000	0.00	0.062	557.20	0.062	557.20	EAST
in space: 67MCSSE Perim Spc (G.SSE5)							
67MCESE Wall (G.ESE6.E12)	0.000	0.00	0.062	935.20	0.062	935.20	EAST
in space: 67MCESE Perim Spc (G.ESE6)							
67MCESE Wall (G.ENE7.E13)	0.000	0.00	0.062	655.20	0.062	655.20	EAST
in space: 67MCENE Perim Spc (G.ENE7)							
GESE Wall (G.18.E30)	0.000	0.00	0.062	20.70	0.062	20.70	EAST
in space: GPlnm (G.18)							
67MCESE Wall (G.NE8.E15)	0.000	0.00	0.062	305.20	0.062	305.20	EAST
in space: 67MCNE Perim Spc (G.NE8)							
10MESE Wall (G.ENE9.E14)	0.000	0.00	0.062	2347.78	0.062	2347.78	EAST
in space: 10MENE Perim Spc (G.ENE9)							
2026ESE Wall (T.ESE38.E49)	0.502	245.93	0.062	221.67	0.293	467.60	EAST
in space: 2026ESE Perim Spc (T.ESE38)							
2026ESE Wall (T.S41.E53)	0.502	114.86	0.062	103.54	0.293	218.40	EAST
in space: 2026South Perim Spc (T.S41)							
68ESE Wall (G.NE2.E5)	0.502	131.99	0.062	60.51	0.364	192.50	EAST
in space: 68NE Perim Spc (G.NE2)							
2026ESE Wall (T.42.E59)	0.000	0.00	0.062	157.68	0.062	157.68	EAST
in space: 2026Plnm (T.42)							
68ESE Wall (G.NE2.E7)	0.000	0.00	0.062	136.50	0.062	136.50	EAST
in space: 68NE Perim Spc (G.NE2)							
68ESE Wall (G.ESE3.E11)	0.502	22.56	0.062	10.34	0.364	32.90	EAST
in space: 68ESE Perim Spc (G.ESE3)							
11MCESE Wall (G.NNE1.E3)	0.000	0.00	0.062	914.82	0.062	914.82	EAST
in space: 11MCNNE Perim Spc (G.NNE1)							
68ESE Wall (G.S6.E17)	0.000	0.00	0.062	278.60	0.062	278.60	EAST
in space: 68South Perim Spc (G.S6)							
68ESE Wall (G.ESE9.E19)	0.000	0.00	0.062	373.80	0.062	373.80	EAST
in space: 68ESE Perim Spc (G.ESE9)							
68ESE Wall (G.C10.E20)	0.000	0.00	0.062	93.80	0.062	93.80	EAST
in space: 68Core Spc (G.C10)							
68ESE Wall (G.11.E25)	0.000	0.00	0.062	126.10	0.062	126.10	EAST
in space: 68Plnm (G.11)							
68ESE Wall (G.11.E29)	0.000	0.00	0.062	4.70	0.062	4.70	EAST
in space: 68Plnm (G.11)							

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25ESE Wall (T.ESE42.E43)	0.000	0.00	0.062	1547.88	0.062	1547.88	EAST
in space: 25ESE Perim Spc (T.ESE42)							
68ESE Wall (G.11.E31)	0.000	0.00	0.062	27.50	0.062	27.50	EAST
in space: 68Plnm (G.11)							
27MCESE Wall (G.E6.E2)	0.000	0.00	0.062	694.80	0.062	694.80	EAST
in space: 27MCEast Perim Spc (G.E6)							
11MCESE Wall (G.WSW5.E11)	0.000	0.00	0.062	708.63	0.062	708.63	EAST
in space: 11MCWSW Perim Spc (G.WSW5)							
68DBESE Wall (G.WNW1.E3)	0.502	2059.20	0.062	85.80	0.484	2145.00	EAST
in space: 68DBWNW Perim Spc (G.WNW1)							
11MCESE Wall (G.SE6.E13)	0.000	0.00	0.062	1161.30	0.062	1161.30	EAST
in space: 11MCSE Perim Spc (G.SE6)							
27MCESE Wall (G.ESE10.E9)	0.000	0.00	0.062	601.20	0.062	601.20	EAST
in space: 27MCESE Perim Spc (G.ESE10)							
27MCESE Wall (G.S13.E13)	0.000	0.00	0.062	280.80	0.062	280.80	EAST
in space: 27MCSouth Perim Spc (G.S13)							
68DBESE Wall (G.2.E9)	0.000	0.00	0.062	143.00	0.062	143.00	EAST
in space: 68DBPlnm (G.2)							
11DBESE Wall (G.WNW1.E3)	0.000	0.00	0.062	4529.80	0.062	4529.80	EAST
in space: 11DBWNW Perim Spc (G.WNW1)							
GESE Wall (G.SSW12.E18)	0.000	0.00	0.062	123.75	0.062	123.75	EAST
in space: GSSW Perim Spc (G.SSW12)							
GESE Wall (G.NNE15.E20)	0.000	0.00	0.062	155.25	0.062	155.25	EAST
in space: GNNE Perim Spc (G.NNE15)							
28ESE Wall (G.E7.E5)	0.502	273.29	0.062	267.11	0.285	540.40	EAST
in space: 28East Perim Spc (G.E7)							
28ESE Wall (G.ESE8.E6)	0.502	236.47	0.062	231.13	0.285	467.60	EAST
in space: 28ESE Perim Spc (G.ESE8)							
69ESE Wall (G.NE2.E5)	0.502	131.99	0.062	60.51	0.364	192.50	EAST
in space: 69NE Perim Spc (G.NE2)							
28ESE Wall (G.S9.E7)	0.502	110.45	0.062	107.95	0.285	218.40	EAST
in space: 28South Perim Spc (G.S9)							
69ESE Wall (G.NE2.E7)	0.000	0.00	0.062	136.50	0.062	136.50	EAST
in space: 69NE Perim Spc (G.NE2)							
69ESE Wall (G.ESE3.E11)	0.502	22.56	0.062	10.34	0.364	32.90	EAST
in space: 69ESE Perim Spc (G.ESE3)							
28ESE Wall (G.13.E15)	0.000	0.00	0.062	175.20	0.062	175.20	EAST
in space: 28Plnm (G.13)							
69ESE Wall (G.S6.E17)	0.000	0.00	0.062	278.60	0.062	278.60	EAST
in space: 69South Perim Spc (G.S6)							
69ESE Wall (G.ESE9.E19)	0.000	0.00	0.062	373.80	0.062	373.80	EAST
in space: 69ESE Perim Spc (G.ESE9)							
69ESE Wall (G.C10.E20)	0.000	0.00	0.062	93.80	0.062	93.80	EAST
in space: 69Core Spc (G.C10)							
69ESE Wall (G.11.E25)	0.000	0.00	0.062	126.10	0.062	126.10	EAST
in space: 69Plnm (G.11)							
69ESE Wall (G.11.E29)	0.000	0.00	0.062	4.70	0.062	4.70	EAST
in space: 69Plnm (G.11)							
25ESE Wall (M.ESE26.E28)	0.000	0.00	0.062	3095.75	0.062	3095.75	EAST
in space: 25ESE Perim Spc (M.ESE26)							
69ESE Wall (G.11.E31)	0.000	0.00	0.062	27.50	0.062	27.50	EAST
in space: 69Plnm (G.11)							
GESE Wall (G.ESE10.E14)	0.000	0.00	0.062	336.00	0.062	336.00	EAST
in space: GESE Perim Spc (G.ESE10)							
1519ESE Wall (G.E8.E7)	0.502	852.65	0.062	305.35	0.386	1158.00	EAST
in space: 1519East Perim Spc (G.E8)							
1519ESE Wall (G.ESE9.E8)	0.502	737.79	0.062	264.21	0.386	1002.00	EAST
in space: 1519ESE Perim Spc (G.ESE9)							

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2936ESE Wall (M.E20.E21)	0.502	2186.30	0.062	839.94	0.380	3026.24	EAST
in space: 2936East Perim Spc (M.E20)							
70ESE Wall (G.S4.E9)	0.502	156.41	0.062	72.01	0.363	228.42	EAST
in space: 70South Perim Spc (G.S4)							
70ESE Wall (G.NE5.E11)	0.502	101.69	0.062	46.81	0.363	148.50	EAST
in space: 70NE Perim Spc (G.NE5)							
2936ESE Wall (M.ESE21.E22)	0.502	1891.78	0.062	726.78	0.380	2618.56	EAST
in space: 2936ESE Perim Spc (M.ESE21)							
2936ESE Wall (M.S22.E23)	0.502	883.58	0.062	339.46	0.380	1223.04	EAST
in space: 2936South Perim Spc (M.S22)							
70ESE Wall (G.ENE6.E14)	0.502	158.26	0.062	72.86	0.363	231.12	EAST
in space: 70ENE Perim Spc (G.ENE6)							
70ESE Wall (G.SE7.E16)	0.502	231.48	0.062	106.56	0.363	338.04	EAST
in space: 70SE Perim Spc (G.SE7)							
70ESE Wall (G.12.E21)	0.000	0.00	0.062	42.30	0.062	42.30	EAST
in space: 70Plnm (G.12)							
70ESE Wall (G.12.E23)	0.000	0.00	0.062	105.40	0.062	105.40	EAST
in space: 70Plnm (G.12)							
2936ESE Wall (M.26.E31)	0.000	0.00	0.062	1401.60	0.062	1401.60	EAST
in space: 2936Plnm (M.26)							
70ESE Wall (G.12.E25)	0.000	0.00	0.062	27.50	0.062	27.50	EAST
in space: 70Plnm (G.12)							
1519ESE Wall (G.S10.E10)	0.542	351.62	0.062	116.38	0.423	468.00	EAST
in space: 1519South Perim Spc (G.S10)							
1519ESE Wall (G.SSE11.E11)	0.502	660.47	0.062	236.53	0.386	897.00	EAST
in space: 1519SSE Perim Spc (G.SSE11)							
1519ESE Wall (G.14.E20)	0.000	0.00	0.062	161.46	0.062	161.46	EAST
in space: 1519Plnm (G.14)							
1519ESE Wall (G.14.E22)	0.000	0.00	0.062	473.04	0.062	473.04	EAST
in space: 1519Plnm (G.14)							
7179ESE Wall (M.S16.E37)	0.502	1407.73	0.062	648.05	0.363	2055.78	EAST
in space: 7179South Perim Spc (M.S16)							
7179ESE Wall (M.NE17.E39)	0.502	915.19	0.062	421.31	0.363	1336.50	EAST
in space: 7179NE Perim Spc (M.NE17)							
3744ESE Wall (M.E20.E21)	0.502	2186.30	0.062	839.94	0.380	3026.24	EAST
in space: 3744East Perim Spc (M.E20)							
3744ESE Wall (M.ESE21.E22)	0.502	1891.78	0.062	726.78	0.380	2618.56	EAST
in space: 3744ESE Perim Spc (M.ESE21)							
7179ESE Wall (M.ENE18.E42)	0.502	1424.37	0.062	655.71	0.363	2080.08	EAST
in space: 7179ENE Perim Spc (M.ENE18)							
7179ESE Wall (M.SE19.E44)	0.502	2083.31	0.062	959.05	0.363	3042.36	EAST
in space: 7179SE Perim Spc (M.SE19)							
7179ESE Wall (M.24.E49)	0.000	0.00	0.062	380.70	0.062	380.70	EAST
in space: 7179Plnm (M.24)							
7179ESE Wall (M.24.E51)	0.000	0.00	0.062	948.60	0.062	948.60	EAST
in space: 7179Plnm (M.24)							
3744ESE Wall (M.S22.E23)	0.502	883.58	0.062	339.46	0.380	1223.04	EAST
in space: 3744South Perim Spc (M.S22)							
7179ESE Wall (M.24.E53)	0.000	0.00	0.062	247.50	0.062	247.50	EAST
in space: 7179Plnm (M.24)							
3744ESE Wall (M.26.E31)	0.000	0.00	0.062	1401.60	0.062	1401.60	EAST
in space: 3744Plnm (M.26)							
8AESE Wall (G.ESE12.E16)	0.000	0.00	0.062	1683.60	0.062	1683.60	EAST
in space: 8AESE Perim Spc (G.ESE12)							
25ESE Wall (G.ESE10.E13)	0.000	0.00	0.062	1547.88	0.062	1547.88	EAST
in space: 25ESE Perim Spc (G.ESE10)							
8MCESE Wall (G.NNE1.E2)	0.000	0.00	0.062	473.00	0.062	473.00	EAST
in space: 8MANNE Perim Spc (G.NNE1)							

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Description	Area	Perimeter	Volume	Area	Area	Area	Area
8087ESE Wall (M.S16.E37)	0.502	1251.32	0.062	576.04	0.363	1827.36	EAST
in space: 8087South Perim Spc (M.S16)							
8087ESE Wall (M.NE17.E39)	0.502	813.50	0.062	374.50	0.363	1188.00	EAST
in space: 8087NE Perim Spc (M.NE17)							
GESE Wall (G.18.E26)	0.000	0.00	0.062	16.50	0.062	16.50	EAST
in space: GPlnm (G.18)							
45ESE Wall (T.E33.E37)	0.502	273.29	0.062	267.11	0.285	540.40	EAST
in space: 45East Perim Spc (T.E33)							
8087ESE Wall (M.ENE18.E42)	0.502	1266.11	0.062	582.85	0.363	1848.96	EAST
in space: 8087ENE Perim Spc (M.ENE18)							
8087ESE Wall (M.SE19.E44)	0.502	1851.83	0.062	852.49	0.363	2704.32	EAST
in space: 8087SE Perim Spc (M.SE19)							
8087ESE Wall (M.24.E49)	0.000	0.00	0.062	338.40	0.062	338.40	EAST
in space: 8087Plnm (M.24)							
8087ESE Wall (M.24.E51)	0.000	0.00	0.062	843.20	0.062	843.20	EAST
in space: 8087Plnm (M.24)							
45ESE Wall (T.ESE34.E38)	0.502	236.47	0.062	231.13	0.285	467.60	EAST
in space: 45ESE Perim Spc (T.ESE34)							
8087ESE Wall (M.24.E53)	0.000	0.00	0.062	220.00	0.062	220.00	EAST
in space: 8087Plnm (M.24)							
45ESE Wall (T.S35.E39)	0.502	110.45	0.062	107.95	0.285	218.40	EAST
in space: 45South Perim Spc (T.S35)							
45ESE Wall (T.39.E47)	0.000	0.00	0.062	175.20	0.062	175.20	EAST
in space: 45Plnm (T.39)							
1519ESE Wall (M.E22.E30)	0.502	1421.08	0.062	508.92	0.386	1930.00	EAST
in space: 1519East Perim Spc (M.E22)							
1519ESE Wall (M.ESE23.E31)	0.502	1229.64	0.062	440.36	0.386	1670.00	EAST
in space: 1519ESE Perim Spc (M.ESE23)							
88ESE Wall (T.S28.E65)	0.502	156.41	0.062	139.69	0.294	296.10	EAST
in space: 88South Perim Spc (T.S28)							
88ESE Wall (T.NE29.E67)	0.502	101.69	0.062	90.81	0.294	192.50	EAST
in space: 88NE Perim Spc (T.NE29)							
1519ESE Wall (M.S24.E33)	0.502	574.32	0.062	205.68	0.386	780.00	EAST
in space: 1519South Perim Spc (M.S24)							
1519ESE Wall (M.SSE25.E34)	0.502	1100.79	0.062	394.21	0.386	1495.00	EAST
in space: 1519SSE Perim Spc (M.SSE25)							
88ESE Wall (T.ENE30.E70)	0.502	158.26	0.062	141.34	0.294	299.60	EAST
in space: 88ENE Perim Spc (T.ENE30)							
88ESE Wall (T.SE31.E72)	0.502	240.38	0.062	197.82	0.303	438.20	EAST
in space: 88SE Perim Spc (T.SE31)							
88ESE Wall (T.36.E77)	0.000	0.00	0.062	42.30	0.062	42.30	EAST
in space: 88Plnm (T.36)							
88ESE Wall (T.36.E79)	0.000	0.00	0.062	105.40	0.062	105.40	EAST
in space: 88Plnm (T.36)							
46MCESE Wall (T.E33.E37)	0.000	0.00	0.062	694.80	0.062	694.80	EAST
in space: 46MCEast Perim Spc (T.E33)							
88ESE Wall (T.36.E81)	0.000	0.00	0.062	27.50	0.062	27.50	EAST
in space: 88Plnm (T.36)							
46MCESE Wall (T.ESE34.E38)	0.000	0.00	0.062	601.20	0.062	601.20	EAST
in space: 46MCESE Perim Spc (T.ESE34)							
46MCESE Wall (T.S35.E39)	0.000	0.00	0.062	280.80	0.062	280.80	EAST
in space: 46MCSouth Perim Spc (T.S35)							
46MCESE Wall (T.39.E47)	0.000	0.00	0.062	175.20	0.062	175.20	EAST
in space: 46MCPlnm (T.39)							
1519ESE Wall (M.28.E43)	0.000	0.00	0.062	269.10	0.062	269.10	EAST
in space: 1519Plnm (M.28)							
89ESE Wall (G.NE2.E5)	0.000	0.00	0.062	385.00	0.062	385.00	EAST
in space: 89NE Perim Spc (G.NE2)							

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1519ESE Wall (M.28.E45)	0.000	0.00	0.062	788.40	0.062	788.40	EAST
in space: 1519Plnm (M.28)							
89ESE Wall (G.ESE3.E7)	0.000	0.00	0.062	539.00	0.062	539.00	EAST
in space: 89ESE Perim Spc (G.ESE3)							
89ESE Wall (G.S6.E12)	0.502	406.05	0.062	186.15	0.364	592.20	EAST
in space: 89South Perim Spc (G.S6)							
8MCESE Wall (G.SSW2.E5)	0.000	0.00	0.062	947.00	0.062	947.00	EAST
in space: 8MASSW Perim Spc (G.SSW2)							
89ESE Wall (G.ESE9.E15)	0.000	0.00	0.062	747.60	0.062	747.60	EAST
in space: 89ESE Perim Spc (G.ESE9)							
89ESE Wall (G.C10.E16)	0.000	0.00	0.062	189.00	0.062	189.00	EAST
in space: 89Core Spc (G.C10)							
89ESE Wall (G.11.E21)	0.000	0.00	0.062	84.60	0.062	84.60	EAST
in space: 89Plnm (G.11)							
47ESE Wall (G.SSE5.E10)	0.502	147.17	0.062	67.75	0.363	214.92	EAST
in space: 47SSE Perim Spc (G.SSE5)							
89ESE Wall (G.11.E23)	0.000	0.00	0.062	210.80	0.062	210.80	EAST
in space: 89Plnm (G.11)							
89ESE Wall (G.11.E24)	0.000	0.00	0.062	55.00	0.062	55.00	EAST
in space: 89Plnm (G.11)							
47ESE Wall (G.ESE6.E12)	0.502	247.01	0.062	113.71	0.363	360.72	EAST
in space: 47ESE Perim Spc (G.ESE6)							
47ESE Wall (G.ENE7.E13)	0.502	71.37	0.062	39.25	0.346	110.62	EAST
in space: 47ENE Perim Spc (G.ENE7)							
89DBESE Wall (G.WNW1.E3)	0.513	3149.99	0.062	170.11	0.490	3320.10	EAST
in space: 89DBWNW Perim Spc (G.WNW1)							
47ESE Wall (G.ENE7.E14)	0.502	95.81	0.062	33.12	0.389	128.94	EAST
in space: 47ENE Perim Spc (G.ENE7)							
89DBESE Wall (G.2.E7)	0.000	0.00	0.062	210.80	0.062	210.80	EAST
in space: 89DBPlnm (G.2)							
6MCESE Wall (G.ESE5.E9)	0.000	0.00	0.062	6118.20	0.062	6118.20	EAST
in space: 6MCESE Perim Spc (G.ESE5)							
47ESE Wall (G.NE8.E16)	0.502	80.61	0.062	37.11	0.363	117.72	EAST
in space: 47NE Perim Spc (G.NE8)							
10AESE Wall (G.ESE4.E4)	0.000	0.00	0.062	216.30	0.062	216.30	EAST
in space: 10AESE Perim Spc (G.ESE4)							
90ESE Wall (G.NE2.E5)	0.000	0.00	0.062	385.00	0.062	385.00	EAST
in space: 90NE Perim Spc (G.NE2)							
47ESE Wall (G.13.E22)	0.000	0.00	0.062	153.40	0.062	153.40	EAST
in space: 47Plnm (G.13)							
90ESE Wall (G.ESE3.E7)	0.000	0.00	0.062	539.00	0.062	539.00	EAST
in space: 90ESE Perim Spc (G.ESE3)							
90ESE Wall (G.S6.E12)	0.502	406.05	0.062	186.15	0.364	592.20	EAST
in space: 90South Perim Spc (G.S6)							
10AESE Wall (G.ESE6.E5)	0.000	0.00	0.062	251.30	0.062	251.30	EAST
in space: 10AESE Perim Spc (G.ESE6)							
90ESE Wall (G.ESE9.E15)	0.000	0.00	0.062	747.60	0.062	747.60	EAST
in space: 90ESE Perim Spc (G.ESE9)							
90ESE Wall (G.C10.E16)	0.000	0.00	0.062	189.00	0.062	189.00	EAST
in space: 90Core Spc (G.C10)							
90ESE Wall (G.11.E21)	0.000	0.00	0.062	84.60	0.062	84.60	EAST
in space: 90Plnm (G.11)							
47ESE Wall (G.13.E24)	0.000	0.00	0.062	21.80	0.062	21.80	EAST
in space: 47Plnm (G.13)							
90ESE Wall (G.11.E23)	0.000	0.00	0.062	210.80	0.062	210.80	EAST
in space: 90Plnm (G.11)							
90ESE Wall (G.11.E24)	0.000	0.00	0.062	55.00	0.062	55.00	EAST
in space: 90Plnm (G.11)							

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Description	Area	Perim	Volume	Area	Volume	Area	Direction
1519ESE Wall (T.E36.E53)	0.502	284.22	0.062	256.18	0.293	540.40	EAST
in space: 1519East Perim Spc (T.E36)							
1519ESE Wall (T.ESE37.E54)	0.502	245.93	0.062	221.67	0.293	467.60	EAST
in space: 1519ESE Perim Spc (T.ESE37)							
1519ESE Wall (T.S38.E56)	0.502	114.86	0.062	103.54	0.293	218.40	EAST
in space: 1519South Perim Spc (T.S38)							
1519ESE Wall (T.SSE39.E57)	0.502	220.16	0.062	198.44	0.293	418.60	EAST
in space: 1519SSE Perim Spc (T.SSE39)							
91ESE Wall (G.NE2.E5)	0.535	168.00	0.062	24.50	0.475	192.50	EAST
in space: 91NE Perim Spc (G.NE2)							
4856ESE Wall (M.SSE18.E37)	0.502	1324.53	0.062	609.75	0.363	1934.28	EAST
in space: 4856SSE Perim Spc (M.SSE18)							
91ESE Wall (G.S6.E11)	0.502	203.03	0.062	93.07	0.364	296.10	EAST
in space: 91South Perim Spc (G.S6)							
91ESE Wall (G.ESE11.E14)	0.000	0.00	0.062	737.80	0.062	737.80	EAST
in space: 91ESE Perim Spc (G.ESE11)							
4856ESE Wall (M.ESE19.E39)	0.502	2223.08	0.062	1023.40	0.363	3246.48	EAST
in space: 4856ESE Perim Spc (M.ESE19)							
91ESE Wall (G.12.E20)	0.000	0.00	0.062	42.30	0.062	42.30	EAST
in space: 91Plnm (G.12)							
91ESE Wall (G.12.E22)	0.000	0.00	0.062	105.40	0.062	105.40	EAST
in space: 91Plnm (G.12)							
4856ESE Wall (M.ENE20.E40)	0.502	1557.49	0.062	716.99	0.363	2274.48	EAST
in space: 4856ENE Perim Spc (M.ENE20)							
91ESE Wall (G.12.E24)	0.000	0.00	0.062	27.50	0.062	27.50	EAST
in space: 91Plnm (G.12)							
1519ESE Wall (T.42.E66)	0.000	0.00	0.062	53.82	0.062	53.82	EAST
in space: 1519Plnm (T.42)							
4856ESE Wall (M.NE21.E42)	0.502	725.50	0.062	333.98	0.363	1059.48	EAST
in space: 4856NE Perim Spc (M.NE21)							
1519ESE Wall (T.42.E68)	0.000	0.00	0.062	157.68	0.062	157.68	EAST
in space: 1519Plnm (T.42)							
4856ESE Wall (M.26.E48)	0.000	0.00	0.062	1380.60	0.062	1380.60	EAST
in space: 4856Plnm (M.26)							
92ESE Wall (G.NE2.E5)	0.535	168.00	0.062	24.50	0.475	192.50	EAST
in space: 92NE Perim Spc (G.NE2)							
10AESE Wall (G.SSW7.E7)	0.000	0.00	0.062	613.90	0.062	613.90	EAST
in space: 10ASSW Perim Spc (G.SSW7)							
92ESE Wall (G.S6.E11)	0.000	0.00	0.062	296.10	0.062	296.10	EAST
in space: 92South Perim Spc (G.S6)							
92ESE Wall (G.ESE11.E14)	0.000	0.00	0.062	737.80	0.062	737.80	EAST
in space: 92ESE Perim Spc (G.ESE11)							
4856ESE Wall (M.26.E50)	0.000	0.00	0.062	196.20	0.062	196.20	EAST
in space: 4856Plnm (M.26)							
92ESE Wall (G.12.E20)	0.000	0.00	0.062	42.30	0.062	42.30	EAST
in space: 92Plnm (G.12)							
92ESE Wall (G.12.E22)	0.000	0.00	0.062	105.40	0.062	105.40	EAST
in space: 92Plnm (G.12)							
6MCESE Wall (G.11.E13)	0.000	0.00	0.062	339.90	0.062	339.90	EAST
in space: 6MCPlnm (G.11)							
92ESE Wall (G.12.E24)	0.000	0.00	0.062	27.50	0.062	27.50	EAST
in space: 92Plnm (G.12)							
2026ESE Wall (G.E6.E2)	0.502	284.22	0.062	256.18	0.293	540.40	EAST
in space: 2026East Perim Spc (G.E6)							
GESE Wall (G.18.E28)	0.000	0.00	0.062	353.50	0.062	353.50	EAST
in space: GPlnm (G.18)							
10AESE Wall (G.ENE9.E14)	0.000	0.00	0.062	563.50	0.062	563.50	EAST
in space: 10AENE Perim Spc (G.ENE9)							

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5765ESE Wall (M.SSE18.E37)	0.502	1324.53	0.062	609.75	0.363	1934.28	EAST
in space: 5765SSE Perim Spc (M.SSE18)							
69SSE Wall (G.11.E27)	0.000	0.00	0.062	24.40	0.062	24.40	SOUTH-EAST
in space: 69Plnm (G.11)							
68SSE Wall (G.11.E27)	0.000	0.00	0.062	24.40	0.062	24.40	SOUTH-EAST
in space: 68Plnm (G.11)							
68SSE Wall (G.ESE3.E9)	0.000	0.00	0.062	170.80	0.062	170.80	SOUTH-EAST
in space: 68ESE Perim Spc (G.ESE3)							
69SSE Wall (G.ESE3.E9)	0.000	0.00	0.062	170.80	0.062	170.80	SOUTH-EAST
in space: 69ESE Perim Spc (G.ESE3)							
Exterior Wall 883	0.000	0.00	0.062	2988.00	0.062	2988.00	SOUTH
in space: 93MERSpace							
25SSW Wall (T.SSW35.E35)	0.000	0.00	0.062	428.75	0.062	428.75	SOUTH
in space: 25SSW Perim Spc (T.SSW35)							
68SSW Wall (G.11.E22)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 68Plnm (G.11)							
68SSW Wall (G.11.E24)	0.000	0.00	0.062	126.90	0.062	126.90	SOUTH
in space: 68Plnm (G.11)							
1519SSW Wall (M.WNW20.E25)	0.502	890.48	0.062	722.02	0.305	1612.50	SOUTH
in space: 1519WNW Perim Spc (M.WNW20)							
68SSW Wall (G.11.E26)	0.000	0.00	0.062	30.40	0.062	30.40	SOUTH
in space: 68Plnm (G.11)							
8ASSW Wall (G.ESE12.E18)	0.000	0.00	0.062	121.20	0.062	121.20	SOUTH
in space: 8AESE Perim Spc (G.ESE12)							
68SSW Wall (G.11.E28)	0.000	0.00	0.062	7.00	0.062	7.00	SOUTH
in space: 68Plnm (G.11)							
25SSW Wall (T.W36.E37)	0.000	0.00	0.062	266.00	0.062	266.00	SOUTH
in space: 25West Perim Spc (T.W36)							
1519SSW Wall (M.NNE21.E28)	0.502	785.56	0.062	636.94	0.305	1422.50	SOUTH
in space: 1519NNE Perim Spc (M.NNE21)							
25SSW Wall (T.SSW37.E38)	0.502	2392.34	0.062	125.91	0.480	2518.25	SOUTH
in space: 25SSW Perim Spc (T.SSW37)							
8MCSSW Wall (G.SSW2.E4)	0.502	600.00	0.062	843.00	0.245	1443.00	SOUTH
in space: 8MASSW Perim Spc (G.SSW2)							
2936SSW Wall (M.S22.E24)	0.535	1607.20	0.062	395.92	0.441	2003.12	SOUTH
in space: 2936South Perim Spc (M.S22)							
68DBSSW Wall (G.WNW1.E2)	0.518	700.00	0.062	125.00	0.449	825.00	SOUTH
in space: 68DBWNW Perim Spc (G.WNW1)							
2936SSW Wall (M.SSW23.E25)	0.502	1582.38	0.062	1338.02	0.300	2920.40	SOUTH
in space: 2936SSW Perim Spc (M.SSW23)							
2936SSW Wall (M.SW24.E26)	0.534	1724.80	0.062	1187.76	0.342	2912.56	SOUTH
in space: 2936SW Perim Spc (M.SW24)							
2936SSW Wall (M.26.E30)	0.000	0.00	0.062	1599.20	0.062	1599.20	SOUTH
in space: 2936Plnm (M.26)							
Exterior Wall 891	0.502	625.00	0.062	275.00	0.367	900.00	SOUTH
in space: 25SSW Perim Spc (T.SSW37)							
68DBSSW Wall (G.2.E8)	0.000	0.00	0.062	55.00	0.062	55.00	SOUTH
in space: 68DBPlnm (G.2)							
1519SSW Wall (M.S24.E32)	0.531	1327.07	0.062	62.93	0.510	1390.00	SOUTH
in space: 1519South Perim Spc (M.S24)							
25SSW Wall (T.SSW40.E41)	0.397	93.50	0.062	1157.75	0.087	1251.25	SOUTH
in space: 25SSW Perim Spc (T.SSW40)							
10ASSW Wall (G.SSW2.E2)	0.000	0.00	0.062	409.50	0.062	409.50	SOUTH
in space: 10ASSW Perim Spc (G.SSW2)							
1519SSW Wall (M.SSE25.E35)	0.502	1166.59	0.062	945.91	0.305	2112.50	SOUTH
in space: 1519SSE Perim Spc (M.SSE25)							
1519SSW Wall (M.W26.E36)	0.502	825.59	0.062	669.41	0.305	1495.00	SOUTH
in space: 1519West Perim Spc (M.W26)							

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1519SSW Wall (M.28.E40)	0.000	0.00	0.062	546.30	0.062	546.30	SOUTH
in space: 1519Plnm (M.28)							
1519SSW Wall (M.28.E42)	0.000	0.00	0.062	649.35	0.062	649.35	SOUTH
in space: 1519Plnm (M.28)							
3744SSW Wall (M.S22.E24)	0.535	1607.20	0.062	395.92	0.441	2003.12	SOUTH
in space: 3744South Perim Spc (M.S22)							
3744SSW Wall (M.SSW23.E25)	0.502	1582.38	0.062	1338.02	0.300	2920.40	SOUTH
in space: 3744SSW Perim Spc (M.SSW23)							
69SSW Wall (G.ESE3.E8)	0.000	0.00	0.062	212.80	0.062	212.80	SOUTH
in space: 69ESE Perim Spc (G.ESE3)							
3744SSW Wall (M.SW24.E26)	0.534	1724.80	0.062	1187.76	0.342	2912.56	SOUTH
in space: 3744SW Perim Spc (M.SW24)							
69SSW Wall (G.ESE3.E10)	0.000	0.00	0.062	49.00	0.062	49.00	SOUTH
in space: 69ESE Perim Spc (G.ESE3)							
3744SSW Wall (M.26.E30)	0.000	0.00	0.062	1599.20	0.062	1599.20	SOUTH
in space: 3744Plnm (M.26)							
25SSW Wall (G.SSW8.E11)	0.397	93.50	0.062	1157.75	0.087	1251.25	SOUTH
in space: 25SSW Perim Spc (G.SSW8)							
69SSW Wall (G.W4.E13)	0.000	0.00	0.062	126.00	0.062	126.00	SOUTH
in space: 69West Perim Spc (G.W4)							
69SSW Wall (G.SW5.E16)	0.502	188.63	0.062	178.17	0.288	366.80	SOUTH
in space: 69SW Perim Spc (G.SW5)							
1519SSW Wall (M.28.E44)	0.000	0.00	0.062	250.20	0.062	250.20	SOUTH
in space: 1519Plnm (M.28)							
69SSW Wall (G.S6.E18)	0.502	268.18	0.062	253.32	0.288	521.50	SOUTH
in space: 69South Perim Spc (G.S6)							
GSSW Wall (G.18.E23)	0.000	0.00	0.062	222.40	0.062	222.40	SOUTH
in space: GPlnm (G.18)							
10ASSW Wall (G.SSW7.E6)	0.502	505.01	0.062	505.09	0.282	1010.10	SOUTH
in space: 10ASSW Perim Spc (G.SSW7)							
69SSW Wall (G.11.E22)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 69Plnm (G.11)							
69SSW Wall (G.11.E24)	0.000	0.00	0.062	126.90	0.062	126.90	SOUTH
in space: 69Plnm (G.11)							
1519SSW Wall (T.WNW34.E48)	0.502	178.10	0.062	273.40	0.236	451.50	SOUTH
in space: 1519WNW Perim Spc (T.WNW34)							
69SSW Wall (G.11.E26)	0.000	0.00	0.062	30.40	0.062	30.40	SOUTH
in space: 69Plnm (G.11)							
GSSW Wall (G.18.E25)	0.000	0.00	0.062	212.80	0.062	212.80	SOUTH
in space: GPlnm (G.18)							
69SSW Wall (G.11.E28)	0.000	0.00	0.062	7.00	0.062	7.00	SOUTH
in space: 69Plnm (G.11)							
10ASSW Wall (G.N8.E10)	0.000	0.00	0.062	440.30	0.062	440.30	SOUTH
in space: 10ANorth Perim Spc (G.N8)							
1519SSW Wall (T.NNE35.E51)	0.502	157.11	0.062	241.19	0.236	398.30	SOUTH
in space: 1519NNE Perim Spc (T.NNE35)							
45SSW Wall (T.S35.E40)	0.535	200.90	0.062	156.80	0.328	357.70	SOUTH
in space: 45South Perim Spc (T.S35)							
45SSW Wall (T.SSW36.E41)	0.502	197.80	0.062	323.70	0.229	521.50	SOUTH
in space: 45SSW Perim Spc (T.SSW36)							
45SSW Wall (T.SW37.E42)	0.534	215.60	0.062	304.50	0.258	520.10	SOUTH
in space: 45SW Perim Spc (T.SW37)							
45SSW Wall (T.39.E46)	0.000	0.00	0.062	199.90	0.062	199.90	SOUTH
in space: 45Plnm (T.39)							
GSSW Wall (G.SSW4.E6)	0.000	0.00	0.062	367.50	0.062	367.50	SOUTH
in space: GSSW Perim Spc (G.SSW4)							
70SSW Wall (G.W2.E5)	0.000	0.00	0.062	97.20	0.062	97.20	SOUTH
in space: 70West Perim Spc (G.W2)							

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70SSW Wall (G.SW3.E8)	0.502	145.32	0.062	137.64	0.288	282.96	SOUTH
in space: 70SW Perim Spc (G.SW3)							
GSSW Wall (G.18.E27)	0.000	0.00	0.062	40.10	0.062	40.10	SOUTH
in space: GPlnm (G.18)							
70SSW Wall (G.S4.E10)	0.502	294.11	0.062	217.81	0.315	511.92	SOUTH
in space: 70South Perim Spc (G.S4)							
1MSSW Wall (G.SW4.E8)	0.000	0.00	0.062	306.80	0.062	306.80	SOUTH
in space: 1MSW Perim Spc (G.SW4)							
1519SSW Wall (T.S38.E55)	0.531	265.41	0.062	123.79	0.382	389.20	SOUTH
in space: 1519South Perim Spc (T.S38)							
10ASSW Wall (G.10.E16)	0.000	0.00	0.062	2529.37	0.062	2529.37	SOUTH
in space: 10APlnm (G.10)							
10ASSW Wall (G.10.E18)	0.000	0.00	0.062	3006.49	0.062	3006.49	SOUTH
in space: 10APlnm (G.10)							
70SSW Wall (G.SE7.E15)	0.535	180.48	0.062	6.90	0.518	187.38	SOUTH
in space: 70SE Perim Spc (G.SE7)							
1519SSW Wall (T.SSE39.E58)	0.502	233.32	0.062	358.18	0.236	591.50	SOUTH
in space: 1519SSE Perim Spc (T.SSE39)							
70SSW Wall (G.12.E18)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 70Plnm (G.12)							
70SSW Wall (G.12.E20)	0.000	0.00	0.062	147.20	0.062	147.20	SOUTH
in space: 70Plnm (G.12)							
1519SSW Wall (T.W40.E59)	0.502	165.12	0.062	253.48	0.236	418.60	SOUTH
in space: 1519West Perim Spc (T.W40)							
70SSW Wall (G.12.E22)	0.000	0.00	0.062	34.70	0.062	34.70	SOUTH
in space: 70Plnm (G.12)							
46MCSSW Wall (T.S35.E40)	0.000	0.00	0.062	459.90	0.062	459.90	SOUTH
in space: 46MCSouth Perim Spc (T.S35)							
46MCSSW Wall (T.SSW36.E41)	0.000	0.00	0.062	670.50	0.062	670.50	SOUTH
in space: 46MCSSW Perim Spc (T.SSW36)							
46MCSSW Wall (T.SW37.E42)	0.000	0.00	0.062	668.70	0.062	668.70	SOUTH
in space: 46MCSSW Perim Spc (T.SW37)							
46MCSSW Wall (T.39.E46)	0.000	0.00	0.062	199.90	0.062	199.90	SOUTH
in space: 46MCPlnm (T.39)							
1519SSW Wall (T.42.E63)	0.000	0.00	0.062	109.26	0.062	109.26	SOUTH
in space: 1519Plnm (T.42)							
1519SSW Wall (T.42.E65)	0.000	0.00	0.062	129.87	0.062	129.87	SOUTH
in space: 1519Plnm (T.42)							
1MSSW Wall (G.SSW5.E9)	0.000	0.00	0.062	1151.20	0.062	1151.20	SOUTH
in space: 1MSSW Perim Spc (G.SSW5)							
7179SSW Wall (M.W14.E33)	0.000	0.00	0.062	874.80	0.062	874.80	SOUTH
in space: 7179West Perim Spc (M.W14)							
7179SSW Wall (M.SW15.E36)	0.502	1307.89	0.062	1238.75	0.288	2546.64	SOUTH
in space: 7179SW Perim Spc (M.SW15)							
1519SSW Wall (T.42.E67)	0.000	0.00	0.062	50.04	0.062	50.04	SOUTH
in space: 1519Plnm (T.42)							
7179SSW Wall (M.S16.E38)	0.502	2646.98	0.062	1960.30	0.315	4607.28	SOUTH
in space: 7179South Perim Spc (M.S16)							
47SSW Wall (G.W2.E5)	0.000	0.00	0.062	97.20	0.062	97.20	SOUTH
in space: 47West Perim Spc (G.W2)							
47SSW Wall (G.SW3.E8)	0.535	180.48	0.062	123.54	0.343	304.02	SOUTH
in space: 47SW Perim Spc (G.SW3)							
47SSW Wall (G.SSW4.E9)	0.502	206.61	0.062	195.69	0.288	402.30	SOUTH
in space: 47SSW Perim Spc (G.SSW4)							
GSSW Wall (G.SSW12.E17)	0.502	1434.99	0.062	161.01	0.457	1596.00	SOUTH
in space: GSSW Perim Spc (G.SSW12)							
7179SSW Wall (M.SE19.E43)	0.535	1624.33	0.062	62.09	0.518	1686.42	SOUTH
in space: 7179SE Perim Spc (M.SE19)							

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47SSW Wall (G.SSE5.E11)	0.533	212.33	0.062	63.61	0.425	275.94	SOUTH
in space: 47SSE Perim Spc (G.SSE5)							
7179SSW Wall (M.24.E46)	0.000	0.00	0.062	162.00	0.062	162.00	SOUTH
in space: 7179Plnm (M.24)							
7179SSW Wall (M.24.E48)	0.000	0.00	0.062	1324.80	0.062	1324.80	SOUTH
in space: 7179Plnm (M.24)							
10MSSW Wall (G.SSW2.E2)	0.000	0.00	0.062	1706.15	0.062	1706.15	SOUTH
in space: 10MSSW Perim Spc (G.SSW2)							
7179SSW Wall (M.24.E50)	0.000	0.00	0.062	312.30	0.062	312.30	SOUTH
in space: 7179Plnm (M.24)							
25SSW Wall (M.SSW19.E20)	0.000	0.00	0.062	857.50	0.062	857.50	SOUTH
in space: 25SSW Perim Spc (M.SSW19)							
6MCSSW Wall (G.SSW6.E10)	0.000	0.00	0.062	5180.40	0.062	5180.40	SOUTH
in space: 6MCSSW Perim Spc (G.SSW6)							
2026SSW Wall (G.WNW7.E4)	0.535	181.76	0.062	269.74	0.253	451.50	SOUTH
in space: 2026WNW Perim Spc (G.WNW7)							
10MSSW Wall (G.SSW7.E6)	0.000	0.00	0.062	4208.51	0.062	4208.51	SOUTH
in space: 10MSSW Perim Spc (G.SSW7)							
6MCSSW Wall (G.11.E12)	0.000	0.00	0.062	287.80	0.062	287.80	SOUTH
in space: 6MCPlnm (G.11)							
47SSW Wall (G.13.E19)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 47Plnm (G.13)							
47SSW Wall (G.13.E21)	0.000	0.00	0.062	181.90	0.062	181.90	SOUTH
in space: 47Plnm (G.13)							
8087SSW Wall (M.W14.E33)	0.000	0.00	0.062	777.60	0.062	777.60	SOUTH
in space: 8087West Perim Spc (M.W14)							
8087SSW Wall (M.SW15.E36)	0.502	1162.57	0.062	1101.11	0.288	2263.68	SOUTH
in space: 8087SW Perim Spc (M.SW15)							
2026SSW Wall (G.NNE8.E7)	0.502	157.11	0.062	241.19	0.236	398.30	SOUTH
in space: 2026NNE Perim Spc (G.NNE8)							
8087SSW Wall (M.S16.E38)	0.502	2352.87	0.062	1742.49	0.315	4095.36	SOUTH
in space: 8087South Perim Spc (M.S16)							
10MSSW Wall (G.N8.E10)	0.000	0.00	0.062	1834.48	0.062	1834.48	SOUTH
in space: 10MNorth Perim Spc (G.N8)							
2026SSW Wall (G.SW11.E10)	0.532	233.56	0.062	185.04	0.325	418.60	SOUTH
in space: 2026SW Perim Spc (G.SW11)							
2026SSW Wall (G.SSW12.E12)	0.502	245.74	0.062	377.26	0.236	623.00	SOUTH
in space: 2026SSW Perim Spc (G.SSW12)							
25SSW Wall (M.W20.E22)	0.000	0.00	0.062	532.00	0.062	532.00	SOUTH
in space: 25West Perim Spc (M.W20)							
8087SSW Wall (M.SE19.E43)	0.535	1443.85	0.062	55.19	0.518	1499.04	SOUTH
in space: 8087SE Perim Spc (M.SE19)							
2026SSW Wall (G.S13.E14)	0.533	222.95	0.062	134.75	0.355	357.70	SOUTH
in space: 2026South Perim Spc (G.S13)							
8087SSW Wall (M.24.E46)	0.000	0.00	0.062	144.00	0.062	144.00	SOUTH
in space: 8087Plnm (M.24)							
8087SSW Wall (M.24.E48)	0.000	0.00	0.062	1177.60	0.062	1177.60	SOUTH
in space: 8087Plnm (M.24)							
2026SSW Wall (G.14.E16)	0.000	0.00	0.062	109.26	0.062	109.26	SOUTH
in space: 2026Plnm (G.14)							
8087SSW Wall (M.24.E50)	0.000	0.00	0.062	277.60	0.062	277.60	SOUTH
in space: 8087Plnm (M.24)							
4856SSW Wall (M.W15.E32)	0.000	0.00	0.062	874.80	0.062	874.80	SOUTH
in space: 4856West Perim Spc (M.W15)							
4856SSW Wall (M.SW16.E35)	0.535	1624.33	0.062	1111.85	0.343	2736.18	SOUTH
in space: 4856SW Perim Spc (M.SW16)							
4856SSW Wall (M.SSW17.E36)	0.502	1859.51	0.062	1761.19	0.288	3620.70	SOUTH
in space: 4856SSW Perim Spc (M.SSW17)							

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Description	Area	Perimeter	Volume	Area	Area	Area	Area
2026SSW Wall (G.14.E18)	0.000	0.00	0.062	179.91	0.062	179.91	SOUTH
in space: 2026Plnm (G.14)							
4856SSW Wall (M.SSE18.E38)	0.533	1910.98	0.062	572.48	0.425	2483.46	SOUTH
in space: 4856SSE Perim Spc (M.SSE18)							
25SSW Wall (M.SSW21.E23)	0.502	4784.68	0.062	251.82	0.480	5036.50	SOUTH
in space: 25SSW Perim Spc (M.SSW21)							
Exterior Wall 889	0.502	1250.00	0.062	550.00	0.367	1800.00	SOUTH
in space: 25SSW Perim Spc (M.SSW21)							
88SSW Wall (T.W26.E61)	0.000	0.00	0.062	126.00	0.062	126.00	SOUTH
in space: 88West Perim Spc (T.W26)							
88SSW Wall (T.SW27.E64)	0.502	145.32	0.062	221.48	0.236	366.80	SOUTH
in space: 88SW Perim Spc (T.SW27)							
11MCSSW Wall (G.NNE1.E2)	0.000	0.00	0.062	1438.59	0.062	1438.59	SOUTH
in space: 11MCNNE Perim Spc (G.NNE1)							
88SSW Wall (T.S28.E66)	0.502	294.11	0.062	369.49	0.257	663.60	SOUTH
in space: 88South Perim Spc (T.S28)							
6MCSSW Wall (G.11.E18)	0.000	0.00	0.062	222.40	0.062	222.40	SOUTH
in space: 6MCPlnm (G.11)							
2026SSW Wall (M.WNW21.E24)	0.502	890.48	0.062	722.02	0.305	1612.50	SOUTH
in space: 2026WNW Perim Spc (M.WNW21)							
4856SSW Wall (M.26.E45)	0.000	0.00	0.062	162.00	0.062	162.00	SOUTH
in space: 4856Plnm (M.26)							
4856SSW Wall (M.26.E47)	0.000	0.00	0.062	1637.10	0.062	1637.10	SOUTH
in space: 4856Plnm (M.26)							
88SSW Wall (T.SE31.E71)	0.535	180.48	0.062	62.42	0.414	242.90	SOUTH
in space: 88SE Perim Spc (T.SE31)							
Exterior Wall 893	0.000	0.00	0.062	1080.00	0.062	1080.00	SOUTH
in space: 6MC Top Spc							
88SSW Wall (T.36.E74)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 88Plnm (T.36)							
88SSW Wall (T.36.E76)	0.000	0.00	0.062	147.20	0.062	147.20	SOUTH
in space: 88Plnm (T.36)							
11MCSSW Wall (G.SW3.E6)	0.000	0.00	0.062	445.56	0.062	445.56	SOUTH
in space: 11MCWSW Perim Spc (G.SW3)							
88SSW Wall (T.36.E78)	0.000	0.00	0.062	34.70	0.062	34.70	SOUTH
in space: 88Plnm (T.36)							
2026SSW Wall (M.NNE22.E27)	0.502	785.56	0.062	636.94	0.305	1422.50	SOUTH
in space: 2026NNE Perim Spc (M.NNE22)							
11MCSSW Wall (G.SSW4.E8)	0.000	0.00	0.062	264.26	0.062	264.26	SOUTH
in space: 11MCSSW Perim Spc (G.SSW4)							
2026SSW Wall (M.SW25.E30)	0.532	1167.82	0.062	327.18	0.429	1495.00	SOUTH
in space: 2026SW Perim Spc (M.SW25)							
2026SSW Wall (M.SSW26.E32)	0.502	1228.72	0.062	996.28	0.305	2225.00	SOUTH
in space: 2026SSW Perim Spc (M.SSW26)							
11MCSSW Wall (G.WSW5.E10)	0.000	0.00	0.062	1000.14	0.062	1000.14	SOUTH
in space: 11MCWSW Perim Spc (G.WSW5)							
5765SSW Wall (M.W15.E32)	0.000	0.00	0.062	874.80	0.062	874.80	SOUTH
in space: 5765West Perim Spc (M.W15)							
5765SSW Wall (M.SW16.E35)	0.535	1624.33	0.062	1111.85	0.343	2736.18	SOUTH
in space: 5765SW Perim Spc (M.SW16)							
5765SSW Wall (M.SSW17.E36)	0.502	1859.51	0.062	1761.19	0.288	3620.70	SOUTH
in space: 5765SSW Perim Spc (M.SSW17)							
2026SSW Wall (M.S27.E34)	0.533	1114.74	0.062	162.76	0.473	1277.50	SOUTH
in space: 2026South Perim Spc (M.S27)							
5765SSW Wall (M.SSE18.E38)	0.533	1910.98	0.062	572.48	0.425	2483.46	SOUTH
in space: 5765SSE Perim Spc (M.SSE18)							
89SSW Wall (G.W4.E8)	0.000	0.00	0.062	252.00	0.062	252.00	SOUTH
in space: 89West Perim Spc (G.W4)							

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89SSW Wall (G.SW5.E11)	0.502	377.25	0.062	356.35	0.288	733.60	SOUTH
in space: 89SW Perim Spc (G.SW5)							
2026SSW Wall (M.28.E36)	0.000	0.00	0.062	546.30	0.062	546.30	SOUTH
in space: 2026Plnm (M.28)							
2026SSW Wall (M.28.E38)	0.000	0.00	0.062	899.55	0.062	899.55	SOUTH
in space: 2026Plnm (M.28)							
89SSW Wall (G.S6.E14)	0.502	766.50	0.062	560.70	0.316	1327.20	SOUTH
in space: 89South Perim Spc (G.S6)							
25SSW Wall (M.SSW24.E26)	0.397	187.00	0.062	2315.50	0.087	2502.50	SOUTH
in space: 25SSW Perim Spc (M.SSW24)							
11MCSSW Wall (G.SE6.E12)	0.000	0.00	0.062	658.86	0.062	658.86	SOUTH
in space: 11MCSE Perim Spc (G.SE6)							
89SSW Wall (G.11.E18)	0.000	0.00	0.062	36.00	0.062	36.00	SOUTH
in space: 89Plnm (G.11)							
89SSW Wall (G.11.E20)	0.000	0.00	0.062	294.40	0.062	294.40	SOUTH
in space: 89Plnm (G.11)							
GSSW Wall (G.SSW9.E13)	0.397	84.00	0.062	988.50	0.089	1072.50	SOUTH
in space: GSSW Perim Spc (G.SSW9)							
5765SSW Wall (M.26.E45)	0.000	0.00	0.062	162.00	0.062	162.00	SOUTH
in space: 5765Plnm (M.26)							
5765SSW Wall (M.26.E47)	0.000	0.00	0.062	1637.10	0.062	1637.10	SOUTH
in space: 5765Plnm (M.26)							
11DBSSW Wall (G.WNW1.E2)	0.000	0.00	0.062	2126.45	0.062	2126.45	SOUTH
in space: 11DBWNW Perim Spc (G.WNW1)							
2026SSW Wall (T.WNW35.E44)	0.502	178.10	0.062	273.40	0.236	451.50	SOUTH
in space: 2026WNW Perim Spc (T.WNW35)							
GSSW Wall (G.W5.E8)	0.000	0.00	0.062	228.00	0.062	228.00	SOUTH
in space: GWest Perim Spc (G.W5)							
89DBSSW Wall (G.WNW1.E2)	0.519	1250.00	0.062	482.50	0.392	1732.50	SOUTH
in space: 89DBWNW Perim Spc (G.WNW1)							
8ASSW Wall (G.WSW2.E3)	0.000	0.00	0.062	1456.80	0.062	1456.80	SOUTH
in space: 8AWSW Perim Spc (G.WSW2)							
2026SSW Wall (T.NNE36.E47)	0.502	157.11	0.062	241.19	0.236	398.30	SOUTH
in space: 2026NNE Perim Spc (T.NNE36)							
89DBSSW Wall (G.2.E6)	0.000	0.00	0.062	110.00	0.062	110.00	SOUTH
in space: 89DBPlnm (G.2)							
1519SSW Wall (G.WNW6.E2)	0.535	545.27	0.062	422.23	0.329	967.50	SOUTH
in space: 1519WNW Perim Spc (G.WNW6)							
2026SSW Wall (T.SW39.E50)	0.532	233.56	0.062	185.04	0.325	418.60	SOUTH
in space: 2026SW Perim Spc (T.SW39)							
66SSW Wall (T.W28.E58)	0.000	0.00	0.062	126.00	0.062	126.00	SOUTH
in space: 66West Perim Spc (T.W28)							
66SSW Wall (T.SW29.E61)	0.535	180.48	0.062	213.62	0.279	394.10	SOUTH
in space: 66SW Perim Spc (T.SW29)							
66SSW Wall (T.SSW30.E62)	0.502	206.61	0.062	314.89	0.236	521.50	SOUTH
in space: 66SSW Perim Spc (T.SSW30)							
2026SSW Wall (T.SSW40.E52)	0.502	245.74	0.062	377.26	0.236	623.00	SOUTH
in space: 2026SSW Perim Spc (T.SSW40)							
66SSW Wall (T.SSE31.E64)	0.533	212.33	0.062	145.37	0.342	357.70	SOUTH
in space: 66SSE Perim Spc (T.SSE31)							
90SSW Wall (G.W4.E8)	0.502	129.59	0.062	122.41	0.288	252.00	SOUTH
in space: 90West Perim Spc (G.W4)							
90SSW Wall (G.SW5.E11)	0.502	377.25	0.062	356.35	0.288	733.60	SOUTH
in space: 90SW Perim Spc (G.SW5)							
8ASSW Wall (G.WSW2.E5)	0.000	0.00	0.062	716.40	0.062	716.40	SOUTH
in space: 8AWSW Perim Spc (G.WSW2)							
2026SSW Wall (T.S41.E54)	0.533	222.95	0.062	134.75	0.355	357.70	SOUTH
in space: 2026South Perim Spc (T.S41)							

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90SSW Wall (G.S6.E14)	0.502	766.50	0.062	560.70	0.316	1327.20	SOUTH
in space: 90South Perim Spc (G.S6)							
2026SSW Wall (T.42.E56)	0.000	0.00	0.062	109.26	0.062	109.26	SOUTH
in space: 2026Plnm (T.42)							
2026SSW Wall (T.42.E58)	0.000	0.00	0.062	179.91	0.062	179.91	SOUTH
in space: 2026Plnm (T.42)							
90SSW Wall (G.11.E18)	0.000	0.00	0.062	36.00	0.062	36.00	SOUTH
in space: 90Plnm (G.11)							
90SSW Wall (G.11.E20)	0.000	0.00	0.062	294.40	0.062	294.40	SOUTH
in space: 90Plnm (G.11)							
GSSW Wall (G.ESE11.E15)	0.502	270.41	0.062	30.34	0.457	300.75	SOUTH
in space: GESE Perim Spc (G.ESE11)							
66SSW Wall (T.39.E71)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 66Plnm (T.39)							
66SSW Wall (T.39.E73)	0.000	0.00	0.062	181.90	0.062	181.90	SOUTH
in space: 66Plnm (T.39)							
1519SSW Wall (G.NNE7.E5)	0.502	471.33	0.062	382.17	0.305	853.50	SOUTH
in space: 1519NNE Perim Spc (G.NNE7)							
25SSW Wall (G.SSW3.E5)	0.000	0.00	0.062	428.75	0.062	428.75	SOUTH
in space: 25SSW Perim Spc (G.SSW3)							
25SSW Wall (G.W4.E7)	0.000	0.00	0.062	266.00	0.062	266.00	SOUTH
in space: 25West Perim Spc (G.W4)							
27MCSSW Wall (G.WNW7.E4)	0.000	0.00	0.062	580.50	0.062	580.50	SOUTH
in space: 27MCWNW Perim Spc (G.WNW7)							
25SSW Wall (G.SSW5.E8)	0.502	2392.34	0.062	125.91	0.480	2518.25	SOUTH
in space: 25SSW Perim Spc (G.SSW5)							
1519SSW Wall (G.S10.E9)	0.531	796.24	0.062	37.76	0.510	834.00	SOUTH
in space: 1519South Perim Spc (G.S10)							
27MCSSW Wall (G.NNE8.E7)	0.000	0.00	0.062	512.10	0.062	512.10	SOUTH
in space: 27MCNNE Perim Spc (G.NNE8)							
91SSW Wall (G.W4.E7)	0.000	0.00	0.062	126.00	0.062	126.00	SOUTH
in space: 91West Perim Spc (G.W4)							
91SSW Wall (G.SW5.E10)	0.000	0.00	0.062	366.80	0.062	366.80	SOUTH
in space: 91SW Perim Spc (G.SW5)							
67MCSSW Wall (G.W2.E5)	0.000	0.00	0.062	252.00	0.062	252.00	SOUTH
in space: 67MCWest Perim Spc (G.W2)							
91SSW Wall (G.S6.E12)	0.000	0.00	0.062	663.60	0.062	663.60	SOUTH
in space: 91South Perim Spc (G.S6)							
91SSW Wall (G.ESE11.E13)	0.000	0.00	0.062	242.90	0.062	242.90	SOUTH
in space: 91ESE Perim Spc (G.ESE11)							
67MCSSW Wall (G.SW3.E8)	0.000	0.00	0.062	788.20	0.062	788.20	SOUTH
in space: 67MCSW Perim Spc (G.SW3)							
67MCSSW Wall (G.SSW4.E9)	0.000	0.00	0.062	1043.00	0.062	1043.00	SOUTH
in space: 67MCSSW Perim Spc (G.SSW4)							
91SSW Wall (G.12.E17)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 91Plnm (G.12)							
91SSW Wall (G.12.E19)	0.000	0.00	0.062	147.20	0.062	147.20	SOUTH
in space: 91Plnm (G.12)							
8ASSW Wall (G.SW9.E12)	0.000	0.00	0.062	355.20	0.062	355.20	SOUTH
in space: 8ASW Perim Spc (G.SW9)							
91SSW Wall (G.12.E21)	0.000	0.00	0.062	34.70	0.062	34.70	SOUTH
in space: 91Plnm (G.12)							
67MCSSW Wall (G.SSE5.E11)	0.000	0.00	0.062	715.40	0.062	715.40	SOUTH
in space: 67MCSSE Perim Spc (G.SSE5)							
27MCSSW Wall (G.SW11.E10)	0.000	0.00	0.062	538.20	0.062	538.20	SOUTH
in space: 27MCSW Perim Spc (G.SW11)							
27MCSSW Wall (G.SSW12.E12)	0.000	0.00	0.062	801.00	0.062	801.00	SOUTH
in space: 27MCSSW Perim Spc (G.SSW12)							

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Description	0.000	0.00	0.062	306.00	0.062	306.00	SOUTH
8ASSW Wall (G.WSW10.E13)	0.000	0.00	0.062	306.00	0.062	306.00	SOUTH
in space: 8AWSW Perim Spc (G.WSW10)							
27MCSSW Wall (G.S13.E14)	0.000	0.00	0.062	459.90	0.062	459.90	SOUTH
in space: 27MCSouth Perim Spc (G.S13)							
1519SSW Wall (G.SSE11.E12)	0.502	699.96	0.062	567.54	0.305	1267.50	SOUTH
in space: 1519SSE Perim Spc (G.SSE11)							
1519SSW Wall (G.W12.E13)	0.502	495.35	0.062	401.65	0.305	897.00	SOUTH
in space: 1519West Perim Spc (G.W12)							
1519SSW Wall (G.14.E17)	0.000	0.00	0.062	327.78	0.062	327.78	SOUTH
in space: 1519Plnm (G.14)							
1519SSW Wall (G.14.E19)	0.000	0.00	0.062	389.61	0.062	389.61	SOUTH
in space: 1519Plnm (G.14)							
92SSW Wall (G.W4.E7)	0.000	0.00	0.062	126.00	0.062	126.00	SOUTH
in space: 92West Perim Spc (G.W4)							
92SSW Wall (G.SW5.E10)	0.000	0.00	0.062	366.80	0.062	366.80	SOUTH
in space: 92SW Perim Spc (G.SW5)							
8ASSW Wall (G.SSW11.E15)	0.000	0.00	0.062	232.80	0.062	232.80	SOUTH
in space: 8ASSW Perim Spc (G.SSW11)							
92SSW Wall (G.S6.E12)	0.000	0.00	0.062	663.60	0.062	663.60	SOUTH
in space: 92South Perim Spc (G.S6)							
92SSW Wall (G.ESE11.E13)	0.000	0.00	0.062	242.90	0.062	242.90	SOUTH
in space: 92ESE Perim Spc (G.ESE11)							
1519SSW Wall (G.14.E21)	0.000	0.00	0.062	150.12	0.062	150.12	SOUTH
in space: 1519Plnm (G.14)							
68SSW Wall (G.ESE3.E8)	0.000	0.00	0.062	212.80	0.062	212.80	SOUTH
in space: 68ESE Perim Spc (G.ESE3)							
92SSW Wall (G.12.E17)	0.000	0.00	0.062	18.00	0.062	18.00	SOUTH
in space: 92Plnm (G.12)							
92SSW Wall (G.12.E19)	0.000	0.00	0.062	147.20	0.062	147.20	SOUTH
in space: 92Plnm (G.12)							
28SSW Wall (G.S9.E8)	0.535	200.90	0.062	156.80	0.328	357.70	SOUTH
in space: 28South Perim Spc (G.S9)							
92SSW Wall (G.12.E21)	0.000	0.00	0.062	34.70	0.062	34.70	SOUTH
in space: 92Plnm (G.12)							
68SSW Wall (G.ESE3.E10)	0.000	0.00	0.062	49.00	0.062	49.00	SOUTH
in space: 68ESE Perim Spc (G.ESE3)							
28SSW Wall (G.SSW10.E9)	0.535	197.80	0.062	323.70	0.242	521.50	SOUTH
in space: 28SSW Perim Spc (G.SSW10)							
28SSW Wall (G.SW11.E10)	0.534	215.60	0.062	304.50	0.258	520.10	SOUTH
in space: 28SW Perim Spc (G.SW11)							
68SSW Wall (G.W4.E13)	0.000	0.00	0.062	126.00	0.062	126.00	SOUTH
in space: 68West Perim Spc (G.W4)							
68SSW Wall (G.SW5.E16)	0.502	188.63	0.062	178.17	0.288	366.80	SOUTH
in space: 68SW Perim Spc (G.SW5)							
28SSW Wall (G.13.E14)	0.000	0.00	0.062	199.90	0.062	199.90	SOUTH
in space: 28Plnm (G.13)							
68SSW Wall (G.S6.E18)	0.502	268.18	0.062	253.32	0.288	521.50	SOUTH
in space: 68South Perim Spc (G.S6)							
Exterior Wall 887	0.502	625.00	0.062	275.00	0.367	900.00	SOUTH
in space: 25SSW Perim Spc (G.SSW5)							
6MCSSW Wall (G.WSW1.E2)	0.000	0.00	0.062	4003.29	0.062	4003.29	SOUTH
in space: 6MCWSW Perim Spc (G.WSW1)							
1MSSW Wall (G.SW3.E6)	0.463	52.50	0.062	530.28	0.098	582.78	SOUTH
in space: 1MSW Perim Spc (G.SW3)							
1MWest Wall (G.SW3.E5)	0.437	225.00	0.062	166.28	0.278	391.28	SOUTH-WEST
in space: 1MSW Perim Spc (G.SW3)							
GWest Wall (G.W8.E12)	0.422	426.50	0.062	307.15	0.271	733.65	SOUTH-WEST
in space: GWest Perim Spc (G.W8)							

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25West Wall (T.W39.E40)	0.418	542.50	0.062	313.43	0.288	855.92	SOUTH-WEST
in space: 25West Perim Spc (T.W39)							
6MCWest Wall (G.WSW1.E1)	0.000	0.00	0.062	1760.76	0.062	1760.76	SOUTH-WEST
in space: 6MCWSW Perim Spc (G.WSW1)							
GWest Wall (G.18.E22)	0.000	0.00	0.062	97.82	0.062	97.82	SOUTH-WEST
in space: GPlnm (G.18)							
25West Wall (G.W7.E10)	0.418	542.50	0.062	313.43	0.288	855.92	SOUTH-WEST
in space: 25West Perim Spc (G.W7)							
25West Wall (M.W23.E25)	0.418	1085.00	0.062	626.85	0.288	1711.85	SOUTH-WEST
in space: 25West Perim Spc (M.W23)							
6MCWest Wall (G.11.E17)	0.000	0.00	0.062	97.82	0.062	97.82	SOUTH-WEST
in space: 6MCPlnm (G.11)							
Exterior Wall 886	0.000	0.00	0.062	2988.00	0.062	2988.00	WEST
in space: 93MERSpace							
6MCWNW Wall (G.N2.E4)	0.000	0.00	0.062	1036.82	0.062	1036.82	WEST
in space: 6MCNorth Perim Spc (G.N2)							
10AWN Wall (G.N8.E9)	0.502	337.59	0.062	144.71	0.370	482.30	WEST
in space: 10ANorth Perim Spc (G.N8)							
25WNW Wall (G.W4.E6)	0.000	0.00	0.062	448.88	0.062	448.88	WEST
in space: 25West Perim Spc (G.W4)							
2026WNW Wall (G.SW11.E11)	0.502	101.46	0.062	116.94	0.266	218.40	WEST
in space: 2026SW Perim Spc (G.SW11)							
2936WNW Wall (M.SW24.E27)	0.502	780.50	0.062	442.54	0.343	1223.04	WEST
in space: 2936SW Perim Spc (M.SW24)							
70WNW Wall (G.12.E27)	0.000	0.00	0.062	27.50	0.062	27.50	WEST
in space: 70Plnm (G.12)							
5765WNW Wall (M.26.E44)	0.000	0.00	0.062	1112.40	0.062	1112.40	WEST
in space: 5765Plnm (M.26)							
7179WNW Wall (M.NNW13.E29)	0.539	1242.14	0.062	94.36	0.505	1336.50	WEST
in space: 7179NNW Perim Spc (M.NNW13)							
2936WNW Wall (M.WNW25.E28)	0.502	1671.07	0.062	947.49	0.343	2618.56	WEST
in space: 2936WNW Perim Spc (M.WNW25)							
7179WNW Wall (M.NNW13.E31)	0.533	1910.98	0.062	169.10	0.495	2080.08	WEST
in space: 7179NNW Perim Spc (M.NNW13)							
5765WNW Wall (M.26.E46)	0.000	0.00	0.062	268.20	0.062	268.20	WEST
in space: 5765Plnm (M.26)							
2936WNW Wall (M.26.E29)	0.000	0.00	0.062	1401.60	0.062	1401.60	WEST
in space: 2936Plnm (M.26)							
7179WNW Wall (M.W14.E34)	0.502	2207.72	0.062	1442.14	0.328	3649.86	WEST
in space: 7179West Perim Spc (M.W14)							
7179WNW Wall (M.SW15.E35)	0.502	876.03	0.062	572.25	0.328	1448.28	WEST
in space: 7179SW Perim Spc (M.SW15)							
10AWN Wall (G.N8.E11)	0.502	16.17	0.062	6.93	0.370	23.10	WEST
in space: 10ANorth Perim Spc (G.N8)							
25WNW Wall (M.W20.E21)	0.000	0.00	0.062	897.75	0.062	897.75	WEST
in space: 25West Perim Spc (M.W20)							
1519WNW Wall (G.W12.E14)	0.502	887.81	0.062	477.19	0.348	1365.00	WEST
in space: 1519West Perim Spc (G.W12)							
3744WNW Wall (M.NNW18.E17)	0.530	2744.00	0.062	282.24	0.487	3026.24	WEST
in space: 3744NNW Perim Spc (M.NNW18)							
5765WNW Wall (M.26.E52)	0.000	0.00	0.062	196.20	0.062	196.20	WEST
in space: 5765Plnm (M.26)							
2026WNW Wall (G.14.E15)	0.000	0.00	0.062	69.48	0.062	69.48	WEST
in space: 2026Plnm (G.14)							
66WNW Wall (T.NNW27.E54)	0.532	233.56	0.062	94.04	0.397	327.60	WEST
in space: 66NNW Perim Spc (T.NNW27)							
1519WNW Wall (G.WNW13.E15)	0.502	651.71	0.062	350.29	0.348	1002.00	WEST
in space: 1519WNW Perim Spc (G.WNW13)							

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66WNW Wall (T.NNW27.E56)	0.502	71.21	0.062	81.39	0.267	152.60	WEST
in space: 66NNW Perim Spc (T.NNW27)							
7179WNW Wall (M.24.E45)	0.000	0.00	0.062	1061.10	0.062	1061.10	WEST
in space: 7179Plnm (M.24)							
2026WNW Wall (G.14.E17)	0.000	0.00	0.062	88.20	0.062	88.20	WEST
in space: 2026Plnm (G.14)							
7179WNW Wall (M.24.E47)	0.000	0.00	0.062	268.20	0.062	268.20	WEST
in space: 7179Plnm (M.24)							
1519WNW Wall (G.14.E16)	0.000	0.00	0.062	208.44	0.062	208.44	WEST
in space: 1519Plnm (G.14)							
66WNW Wall (T.W28.E59)	0.502	250.85	0.062	286.75	0.267	537.60	WEST
in space: 66West Perim Spc (T.W28)							
66WNW Wall (T.SW29.E60)	0.502	97.34	0.062	111.26	0.267	208.60	WEST
in space: 66SW Perim Spc (T.SW29)							
GWNW Wall (G.NW2.E4)	0.502	432.92	0.062	48.62	0.457	481.54	WEST
in space: GNW Perim Spc (G.NW2)							
1519WNW Wall (G.14.E18)	0.000	0.00	0.062	426.06	0.062	426.06	WEST
in space: 1519Plnm (G.14)							
Exterior Wall 896	0.000	0.00	0.062	1080.00	0.062	1080.00	WEST
in space: 6MC Top Spc							
10AWN Wall (G.10.E15)	0.000	0.00	0.062	1608.46	0.062	1608.46	WEST
in space: 10APlnm (G.10)							
7179WNW Wall (M.24.E55)	0.000	0.00	0.062	247.50	0.062	247.50	WEST
in space: 7179Plnm (M.24)							
2026WNW Wall (M.WNW21.E23)	0.502	1255.29	0.062	674.71	0.348	1930.00	WEST
in space: 2026WNW Perim Spc (M.WNW21)							
8087WNW Wall (M.NNW13.E29)	0.539	1104.12	0.062	83.88	0.505	1188.00	WEST
in space: 8087NNW Perim Spc (M.NNW13)							
3744WNW Wall (M.SW24.E27)	0.502	780.50	0.062	442.54	0.343	1223.04	WEST
in space: 3744SW Perim Spc (M.SW24)							
8087WNW Wall (M.NNW13.E31)	0.533	1698.65	0.062	150.31	0.495	1848.96	WEST
in space: 8087NNW Perim Spc (M.NNW13)							
3744WNW Wall (M.WNW25.E28)	0.502	1671.07	0.062	947.49	0.343	2618.56	WEST
in space: 3744WNW Perim Spc (M.WNW25)							
3744WNW Wall (M.26.E29)	0.000	0.00	0.062	1401.60	0.062	1401.60	WEST
in space: 3744Plnm (M.26)							
8087WNW Wall (M.W14.E34)	0.502	1962.42	0.062	1281.90	0.328	3244.32	WEST
in space: 8087West Perim Spc (M.W14)							
8087WNW Wall (M.SW15.E35)	0.502	778.70	0.062	508.66	0.328	1287.36	WEST
in space: 8087SW Perim Spc (M.SW15)							
8AWN Wall (G.NW1.E1)	0.000	0.00	0.062	670.80	0.062	670.80	WEST
in space: 8ANW Perim Spc (G.NW1)							
66WNW Wall (T.39.E70)	0.000	0.00	0.062	123.60	0.062	123.60	WEST
in space: 66Plnm (T.39)							
10AWN Wall (G.10.E17)	0.000	0.00	0.062	3287.76	0.062	3287.76	WEST
in space: 10APlnm (G.10)							
66WNW Wall (T.39.E72)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 66Plnm (T.39)							
1MWNW Wall (G.SW4.E7)	0.000	0.00	0.062	178.40	0.062	178.40	WEST
in space: 1MSW Perim Spc (G.SW4)							
45WNW Wall (T.NNW31.E33)	0.530	343.00	0.062	197.40	0.359	540.40	WEST
in space: 45NNW Perim Spc (T.NNW31)							
1519WNW Wall (M.WNW20.E24)	0.502	1255.29	0.062	674.71	0.348	1930.00	WEST
in space: 1519WNW Perim Spc (M.WNW20)							
2026WNW Wall (M.WNW23.E28)	0.502	1086.19	0.062	583.81	0.348	1670.00	WEST
in space: 2026WNW Perim Spc (M.WNW23)							
25WNW Wall (M.SSW21.E24)	0.000	0.00	0.062	878.50	0.062	878.50	WEST
in space: 25SSW Perim Spc (M.SSW21)							

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Description	Area	Perimeter	Volume	Area	Volume	Area	Direction
8087WNW Wall (M.24.E45)	0.000	0.00	0.062	943.20	0.062	943.20	WEST
in space: 8087Plnm (M.24)							
66WNW Wall (T.39.E78)	0.000	0.00	0.062	21.80	0.062	21.80	WEST
in space: 66Plnm (T.39)							
8087WNW Wall (M.24.E47)	0.000	0.00	0.062	238.40	0.062	238.40	WEST
in space: 8087Plnm (M.24)							
8AWNW Wall (G.WSW2.E4)	0.000	0.00	0.062	189.60	0.062	189.60	WEST
in space: 8AWSW Perim Spc (G.WSW2)							
67MCWNW Wall (G.NNW1.E1)	0.000	0.00	0.062	655.20	0.062	655.20	WEST
in space: 67MCNNW Perim Spc (G.NNW1)							
2026WNW Wall (M.SW25.E31)	0.502	507.32	0.062	272.68	0.348	780.00	WEST
in space: 2026SW Perim Spc (M.SW25)							
67MCWNW Wall (G.NNW1.E3)	0.000	0.00	0.062	305.20	0.062	305.20	WEST
in space: 67MCNNW Perim Spc (G.NNW1)							
10MWNW Wall (G.WNW1.E1)	0.000	0.00	0.062	1948.22	0.062	1948.22	WEST
in space: 10MWNW Perim Spc (G.WNW1)							
25WNW Wall (G.SSW5.E9)	0.000	0.00	0.062	439.25	0.062	439.25	WEST
in space: 25SSW Perim Spc (G.SSW5)							
67MCWNW Wall (G.W2.E6)	0.000	0.00	0.062	1075.20	0.062	1075.20	WEST
in space: 67MCWest Perim Spc (G.W2)							
8087WNW Wall (M.24.E55)	0.000	0.00	0.062	220.00	0.062	220.00	WEST
in space: 8087Plnm (M.24)							
67MCWNW Wall (G.SW3.E7)	0.000	0.00	0.062	417.20	0.062	417.20	WEST
in space: 67MCSW Perim Spc (G.SW3)							
88WNW Wall (T.NNW25.E57)	0.539	138.02	0.062	54.48	0.404	192.50	WEST
in space: 88NNW Perim Spc (T.NNW25)							
10MWNW Wall (G.SSW2.E3)	0.000	0.00	0.062	242.07	0.062	242.07	WEST
in space: 10MSSW Perim Spc (G.SSW2)							
88WNW Wall (T.NNW25.E59)	0.533	212.33	0.062	87.27	0.396	299.60	WEST
in space: 88NNW Perim Spc (T.NNW25)							
2026WNW Wall (M.28.E35)	0.000	0.00	0.062	347.40	0.062	347.40	WEST
in space: 2026Plnm (M.28)							
45WNW Wall (T.SW37.E43)	0.502	97.56	0.062	120.84	0.259	218.40	WEST
in space: 45SW Perim Spc (T.SW37)							
88WNW Wall (T.W26.E62)	0.502	245.30	0.062	280.40	0.267	525.70	WEST
in space: 88West Perim Spc (T.W26)							
88WNW Wall (T.SW27.E63)	0.502	97.34	0.062	111.26	0.267	208.60	WEST
in space: 88SW Perim Spc (T.SW27)							
45WNW Wall (T.WNW38.E44)	0.502	208.88	0.062	258.72	0.259	467.60	WEST
in space: 45WNW Perim Spc (T.WNW38)							
45WNW Wall (T.39.E45)	0.000	0.00	0.062	175.20	0.062	175.20	WEST
in space: 45Plnm (T.39)							
GWNW Wall (G.18.E33)	0.000	0.00	0.062	199.40	0.062	199.40	WEST
in space: GPlnm (G.18)							
2026WNW Wall (M.28.E37)	0.000	0.00	0.062	441.00	0.062	441.00	WEST
in space: 2026Plnm (M.28)							
8AWNW Wall (G.WSW2.E7)	0.609	18.00	0.062	237.60	0.101	255.60	WEST
in space: 8AWSW Perim Spc (G.WSW2)							
46MCWNW Wall (T.NNW31.E33)	0.000	0.00	0.062	694.80	0.062	694.80	WEST
in space: 46MCNNW Perim Spc (T.NNW31)							
68WNW Wall (G.NNW1.E1)	0.528	280.00	0.062	7.70	0.516	287.70	WEST
in space: 68NNW Perim Spc (G.NNW1)							
GWNW Wall (G.SSW12.E19)	0.502	338.52	0.062	37.98	0.457	376.50	WEST
in space: GSSW Perim Spc (G.SSW12)							
68WNW Wall (G.NNW1.E3)	0.502	116.59	0.062	75.91	0.328	192.50	WEST
in space: 68NNW Perim Spc (G.NNW1)							
88WNW Wall (T.36.E73)	0.000	0.00	0.062	117.90	0.062	117.90	WEST
in space: 88Plnm (T.36)							

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1MWNN Wall (G.SSW5.E10)	0.000	0.00	0.062	227.60	0.062	227.60	WEST
in space: 1MSSW Perim Spc (G.SSW5)							
88WNN Wall (T.36.E75)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 88Plnm (T.36)							
10MWNN Wall (G.SSW7.E8)	0.000	0.00	0.062	2557.77	0.062	2557.77	WEST
in space: 10MSSW Perim Spc (G.SSW7)							
10MWNN Wall (G.N8.E9)	0.000	0.00	0.062	2009.47	0.062	2009.47	WEST
in space: 10MNorth Perim Spc (G.N8)							
2026WNN Wall (T.WNW35.E43)	0.502	251.06	0.062	289.34	0.266	540.40	WEST
in space: 2026WNN Perim Spc (T.WNW35)							
1MWNN Wall (G.NW1.E1)	0.000	0.00	0.062	540.80	0.062	540.80	WEST
in space: 1MNN Perim Spc (G.NW1)							
1519WNN Wall (M.W26.E37)	0.502	1479.68	0.062	795.32	0.348	2275.00	WEST
in space: 1519West Perim Spc (M.W26)							
1519WNN Wall (M.WNW27.E38)	0.502	1086.19	0.062	583.81	0.348	1670.00	WEST
in space: 1519WNN Perim Spc (M.WNW27)							
1519WNN Wall (M.28.E39)	0.000	0.00	0.062	347.40	0.062	347.40	WEST
in space: 1519Plnm (M.28)							
88WNN Wall (T.36.E83)	0.000	0.00	0.062	27.50	0.062	27.50	WEST
in space: 88Plnm (T.36)							
46MCWNN Wall (T.SW37.E43)	0.000	0.00	0.062	280.80	0.062	280.80	WEST
in space: 46MCSW Perim Spc (T.SW37)							
89WNN Wall (G.NNW1.E1)	0.529	504.00	0.062	35.00	0.499	539.00	WEST
in space: 89NNW Perim Spc (G.NNW1)							
46MCWNN Wall (T.WNW38.E44)	0.000	0.00	0.062	601.20	0.062	601.20	WEST
in space: 46MCWNN Perim Spc (T.WNW38)							
89WNN Wall (G.NNW1.E3)	0.535	336.00	0.062	49.00	0.475	385.00	WEST
in space: 89NNW Perim Spc (G.NNW1)							
68WNN Wall (G.W4.E14)	0.502	325.61	0.062	211.99	0.328	537.60	WEST
in space: 68West Perim Spc (G.W4)							
68WNN Wall (G.SW5.E15)	0.502	126.34	0.062	82.26	0.328	208.60	WEST
in space: 68SW Perim Spc (G.SW5)							
46MCWNN Wall (T.39.E45)	0.000	0.00	0.062	175.20	0.062	175.20	WEST
in space: 46MCPlnm (T.39)							
2026WNN Wall (T.WNW37.E48)	0.502	217.24	0.062	250.36	0.266	467.60	WEST
in space: 2026WNN Perim Spc (T.WNW37)							
10MWNN Wall (G.N8.E11)	0.000	0.00	0.062	96.24	0.062	96.24	WEST
in space: 10MNorth Perim Spc (G.N8)							
89WNN Wall (G.W4.E9)	0.502	673.27	0.062	438.33	0.328	1111.60	WEST
in space: 89West Perim Spc (G.W4)							
89WNN Wall (G.SW5.E10)	0.502	252.69	0.062	164.51	0.328	417.20	WEST
in space: 89SW Perim Spc (G.SW5)							
1519WNN Wall (M.28.E41)	0.000	0.00	0.062	710.10	0.062	710.10	WEST
in space: 1519Plnm (M.28)							
47WNN Wall (G.NNW1.E1)	0.532	233.56	0.062	19.16	0.497	252.72	WEST
in space: 47NNW Perim Spc (G.NNW1)							
68WNN Wall (G.11.E21)	0.000	0.00	0.062	117.90	0.062	117.90	WEST
in space: 68Plnm (G.11)							
2026WNN Wall (T.SW39.E51)	0.502	101.46	0.062	116.94	0.266	218.40	WEST
in space: 2026SW Perim Spc (T.SW39)							
68WNN Wall (G.11.E23)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 68Plnm (G.11)							
47WNN Wall (G.NNW1.E3)	0.502	71.21	0.062	46.51	0.328	117.72	WEST
in space: 47NNW Perim Spc (G.NNW1)							
89WNN Wall (G.11.E17)	0.000	0.00	0.062	235.80	0.062	235.80	WEST
in space: 89Plnm (G.11)							
8AWNN Wall (G.SW9.E11)	0.000	0.00	0.062	128.40	0.062	128.40	WEST
in space: 8ASW Perim Spc (G.SW9)							

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89WNW Wall (G.11.E19)	0.000	0.00	0.062	59.60	0.062	59.60	WEST
in space: 89Plnm (G.11)							
GWNW Wall (G.18.E24)	0.000	0.00	0.062	101.50	0.062	101.50	WEST
in space: GPlnm (G.18)							
47WNW Wall (G.W2.E6)	0.502	250.85	0.062	163.87	0.328	414.72	WEST
in space: 47West Perim Spc (G.W2)							
47WNW Wall (G.SW3.E7)	0.502	97.34	0.062	63.58	0.328	160.92	WEST
in space: 47SW Perim Spc (G.SW3)							
25WNW Wall (G.NW1.E1)	0.000	0.00	0.062	1183.00	0.062	1183.00	WEST
in space: 25NW Perim Spc (G.NW1)							
2026WNW Wall (T.42.E55)	0.000	0.00	0.062	69.48	0.062	69.48	WEST
in space: 2026Plnm (T.42)							
11MCWNW Wall (G.NNE1.E1)	0.000	0.00	0.062	914.82	0.062	914.82	WEST
in space: 11MCNNE Perim Spc (G.NNE1)							
89WNW Wall (G.11.E26)	0.000	0.00	0.062	55.00	0.062	55.00	WEST
in space: 89Plnm (G.11)							
2026WNW Wall (T.42.E57)	0.000	0.00	0.062	88.20	0.062	88.20	WEST
in space: 2026Plnm (T.42)							
89DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.062	3320.10	0.062	3320.10	WEST
in space: 89DBWNW Perim Spc (G.WNW1)							
68WNW Wall (G.11.E33)	0.000	0.00	0.062	27.50	0.062	27.50	WEST
in space: 68Plnm (G.11)							
8AWNW Wall (G.WSW10.E14)	0.000	0.00	0.062	439.20	0.062	439.20	WEST
in space: 8AWSW Perim Spc (G.WSW10)							
68DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.062	1891.50	0.062	1891.50	WEST
in space: 68DBWNW Perim Spc (G.WNW1)							
89DBWNW Wall (G.2.E5)	0.000	0.00	0.062	210.80	0.062	210.80	WEST
in space: 89DBPlnm (G.2)							
1519WNW Wall (T.WNW34.E47)	0.502	251.06	0.062	289.34	0.266	540.40	WEST
in space: 1519WNW Perim Spc (T.WNW34)							
6MCWNW Wall (G.NW3.E6)	0.000	0.00	0.062	1924.20	0.062	1924.20	WEST
in space: 6MCNW Perim Spc (G.NW3)							
GWNW Wall (G.W5.E7)	0.502	345.93	0.062	38.82	0.457	384.75	WEST
in space: GWest Perim Spc (G.W5)							
90WNW Wall (G.NNW1.E1)	0.502	326.46	0.062	212.54	0.328	539.00	WEST
in space: 90NNW Perim Spc (G.NNW1)							
11MCWNW Wall (G.WNW2.E5)	0.000	0.00	0.062	186.05	0.062	186.05	WEST
in space: 11MCWNW Perim Spc (G.WNW2)							
90WNW Wall (G.NNW1.E3)	0.502	233.18	0.062	151.82	0.328	385.00	WEST
in space: 90NNW Perim Spc (G.NNW1)							
27MCWNW Wall (G.WNW7.E3)	0.000	0.00	0.062	694.80	0.062	694.80	WEST
in space: 27MCWNW Perim Spc (G.WNW7)							
68DBWNW Wall (G.2.E7)	0.000	0.00	0.062	126.10	0.062	126.10	WEST
in space: 68DBPlnm (G.2)							
47WNW Wall (G.13.E18)	0.000	0.00	0.062	123.60	0.062	123.60	WEST
in space: 47Plnm (G.13)							
25WNW Wall (T.NW33.E31)	0.000	0.00	0.062	1183.00	0.062	1183.00	WEST
in space: 25NW Perim Spc (T.NW33)							
47WNW Wall (G.13.E20)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 47Plnm (G.13)							
90WNW Wall (G.W4.E9)	0.502	673.27	0.062	438.33	0.328	1111.60	WEST
in space: 90West Perim Spc (G.W4)							
90WNW Wall (G.SW5.E10)	0.502	252.69	0.062	164.51	0.328	417.20	WEST
in space: 90SW Perim Spc (G.SW5)							
11MCWNW Wall (G.SW3.E7)	0.000	0.00	0.062	171.83	0.062	171.83	WEST
in space: 11MCSW Perim Spc (G.SW3)							
1MWNW Wall (G.N2.E4)	0.000	0.00	0.062	256.80	0.062	256.80	WEST
in space: 1MNorth Perim Spc (G.N2)							

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Description	Area (sq ft)	Perimeter (ft)	Volume (cu ft)	Weight (lb)	Volume (cu ft)	Weight (lb)	Direction
69WNW Wall (G.NNW1.E1)	0.528	280.00	0.062	7.70	0.516	287.70	WEST
in space: 69NNW Perim Spc (G.NNW1)							
11MCWNW Wall (G.WSW5.E9)	0.000	0.00	0.062	1512.06	0.062	1512.06	WEST
in space: 11MCWSW Perim Spc (G.WSW5)							
69WNW Wall (G.NNW1.E3)	0.502	116.59	0.062	75.91	0.328	192.50	WEST
in space: 69NNW Perim Spc (G.NNW1)							
27MCWNW Wall (G.WNW9.E8)	0.000	0.00	0.062	601.20	0.062	601.20	WEST
in space: 27MCWNW Perim Spc (G.WNW9)							
90WNW Wall (G.11.E17)	0.000	0.00	0.062	235.80	0.062	235.80	WEST
in space: 90Plnm (G.11)							
8MCWNW Wall (G.NNE1.E1)	0.000	0.00	0.062	473.00	0.062	473.00	WEST
in space: 8MANNE Perim Spc (G.NNE1)							
90WNW Wall (G.11.E19)	0.000	0.00	0.062	59.60	0.062	59.60	WEST
in space: 90Plnm (G.11)							
47WNW Wall (G.13.E26)	0.000	0.00	0.062	21.80	0.062	21.80	WEST
in space: 47Plnm (G.13)							
25WNW Wall (M.NW17.E16)	0.000	0.00	0.062	2366.00	0.062	2366.00	WEST
in space: 25NW Perim Spc (M.NW17)							
4856WNW Wall (M.NNW14.E28)	0.532	2102.08	0.062	172.40	0.497	2274.48	WEST
in space: 4856NNW Perim Spc (M.NNW14)							
27MCWNW Wall (G.SW11.E11)	0.000	0.00	0.062	280.80	0.062	280.80	WEST
in space: 27MCSW Perim Spc (G.SW11)							
4856WNW Wall (M.NNW14.E30)	0.502	640.86	0.062	418.62	0.328	1059.48	WEST
in space: 4856NNW Perim Spc (M.NNW14)							
6MCWNW Wall (G.11.E11)	0.000	0.00	0.062	85.60	0.062	85.60	WEST
in space: 6MCPlnm (G.11)							
90WNW Wall (G.11.E26)	0.000	0.00	0.062	55.00	0.062	55.00	WEST
in space: 90Plnm (G.11)							
25WNW Wall (T.N34.E34)	0.000	0.00	0.062	561.75	0.062	561.75	WEST
in space: 25North Perim Spc (T.N34)							
91WNW Wall (G.NNW1.E1)	0.530	238.00	0.062	31.50	0.475	269.50	WEST
in space: 91NNW Perim Spc (G.NNW1)							
4856WNW Wall (M.W15.E33)	0.502	2257.69	0.062	1474.79	0.328	3732.48	WEST
in space: 4856West Perim Spc (M.W15)							
91WNW Wall (G.NNW1.E3)	0.535	168.00	0.062	24.50	0.475	192.50	WEST
in space: 91NNW Perim Spc (G.NNW1)							
69WNW Wall (G.W4.E14)	0.502	325.61	0.062	211.99	0.328	537.60	WEST
in space: 69West Perim Spc (G.W4)							
69WNW Wall (G.SW5.E15)	0.502	126.34	0.062	82.26	0.328	208.60	WEST
in space: 69SW Perim Spc (G.SW5)							
4856WNW Wall (M.SW16.E34)	0.502	876.03	0.062	572.25	0.328	1448.28	WEST
in space: 4856SW Perim Spc (M.SW16)							
11DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.062	4529.80	0.062	4529.80	WEST
in space: 11DBWNW Perim Spc (G.WNW1)							
91WNW Wall (G.W4.E8)	0.000	0.00	0.062	555.80	0.062	555.80	WEST
in space: 91West Perim Spc (G.W4)							
91WNW Wall (G.SW5.E9)	0.000	0.00	0.062	208.60	0.062	208.60	WEST
in space: 91SW Perim Spc (G.SW5)							
28WNW Wall (G.NNW5.E1)	0.530	343.00	0.062	197.40	0.359	540.40	WEST
in space: 28NNW Perim Spc (G.NNW5)							
1519WNW Wall (T.W40.E60)	0.502	295.94	0.062	341.06	0.266	637.00	WEST
in space: 1519West Perim Spc (T.W40)							
1519WNW Wall (T.WNW41.E61)	0.502	217.24	0.062	250.36	0.266	467.60	WEST
in space: 1519WNW Perim Spc (T.WNW41)							
69WNW Wall (G.11.E21)	0.000	0.00	0.062	117.90	0.062	117.90	WEST
in space: 69Plnm (G.11)							
1519WNW Wall (T.42.E62)	0.000	0.00	0.062	69.48	0.062	69.48	WEST
in space: 1519Plnm (T.42)							

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69WNW Wall (G.11.E23)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 69Plnm (G.11)							
91WNW Wall (G.12.E16)	0.000	0.00	0.062	117.90	0.062	117.90	WEST
in space: 91Plnm (G.12)							
25WNW Wall (G.N2.E4)	0.000	0.00	0.062	561.75	0.062	561.75	WEST
in space: 25North Perim Spc (G.N2)							
91WNW Wall (G.12.E18)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 91Plnm (G.12)							
1519WNW Wall (T.42.E64)	0.000	0.00	0.062	142.02	0.062	142.02	WEST
in space: 1519Plnm (T.42)							
25WNW Wall (T.W36.E36)	0.000	0.00	0.062	448.88	0.062	448.88	WEST
in space: 25West Perim Spc (T.W36)							
8MCWNW Wall (G.SSW2.E7)	0.502	899.60	0.062	47.40	0.480	947.00	WEST
in space: 8MASSW Perim Spc (G.SSW2)							
4856WNW Wall (M.26.E44)	0.000	0.00	0.062	1112.40	0.062	1112.40	WEST
in space: 4856Plnm (M.26)							
1519WNW Wall (G.WNW6.E1)	0.502	753.17	0.062	404.83	0.348	1158.00	WEST
in space: 1519WNW Perim Spc (G.WNW6)							
4856WNW Wall (M.26.E46)	0.000	0.00	0.062	268.20	0.062	268.20	WEST
in space: 4856Plnm (M.26)							
10AWNW Wall (G.WNW1.E1)	0.502	327.30	0.062	140.30	0.370	467.60	WEST
in space: 10AWNW Perim Spc (G.WNW1)							
91WNW Wall (G.12.E26)	0.000	0.00	0.062	27.50	0.062	27.50	WEST
in space: 91Plnm (G.12)							
28WNW Wall (G.SW11.E11)	0.502	97.56	0.062	120.84	0.259	218.40	WEST
in space: 28SW Perim Spc (G.SW11)							
92WNW Wall (G.NNW1.E1)	0.530	238.00	0.062	31.50	0.475	269.50	WEST
in space: 92NNW Perim Spc (G.NNW1)							
69WNW Wall (G.11.E33)	0.000	0.00	0.062	27.50	0.062	27.50	WEST
in space: 69Plnm (G.11)							
92WNW Wall (G.NNW1.E3)	0.535	168.00	0.062	24.50	0.475	192.50	WEST
in space: 92NNW Perim Spc (G.NNW1)							
28WNW Wall (G.WNW12.E12)	0.502	208.88	0.062	258.72	0.259	467.60	WEST
in space: 28WNW Perim Spc (G.WNW12)							
70WNW Wall (G.NNW1.E1)	0.539	138.02	0.062	10.48	0.505	148.50	WEST
in space: 70NNW Perim Spc (G.NNW1)							
28WNW Wall (G.13.E13)	0.000	0.00	0.062	175.20	0.062	175.20	WEST
in space: 28Plnm (G.13)							
70WNW Wall (G.NNW1.E3)	0.533	212.33	0.062	18.79	0.495	231.12	WEST
in space: 70NNW Perim Spc (G.NNW1)							
92WNW Wall (G.W4.E8)	0.000	0.00	0.062	555.80	0.062	555.80	WEST
in space: 92West Perim Spc (G.W4)							
92WNW Wall (G.SW5.E9)	0.000	0.00	0.062	208.60	0.062	208.60	WEST
in space: 92SW Perim Spc (G.SW5)							
6MCWNW Wall (G.11.E15)	0.000	0.00	0.062	164.50	0.062	164.50	WEST
in space: 6MCPlnm (G.11)							
4856WNW Wall (M.26.E52)	0.000	0.00	0.062	196.20	0.062	196.20	WEST
in space: 4856Plnm (M.26)							
70WNW Wall (G.W2.E6)	0.502	245.30	0.062	160.24	0.328	405.54	WEST
in space: 70West Perim Spc (G.W2)							
70WNW Wall (G.SW3.E7)	0.502	97.34	0.062	63.58	0.328	160.92	WEST
in space: 70SW Perim Spc (G.SW3)							
10AWNW Wall (G.SSW2.E3)	0.502	40.67	0.062	17.43	0.370	58.10	WEST
in space: 10ASSW Perim Spc (G.SSW2)							
5765WNW Wall (M.NNW14.E28)	0.532	2102.08	0.062	172.40	0.497	2274.48	WEST
in space: 5765NNW Perim Spc (M.NNW14)							
92WNW Wall (G.12.E16)	0.000	0.00	0.062	117.90	0.062	117.90	WEST
in space: 92Plnm (G.12)							

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GWNW Wall (G.NW1.E1)	0.502	911.70	0.062	102.30	0.457	1014.00	WEST
in space: GNW Perim Spc (G.NW1)							
92WNNW Wall (G.12.E18)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 92Plnm (G.12)							
5765WNNW Wall (M.NNW14.E30)	0.502	640.86	0.062	418.62	0.328	1059.48	WEST
in space: 5765NNW Perim Spc (M.NNW14)							
2936WNNW Wall (M.NNW18.E17)	0.530	2744.00	0.062	282.24	0.487	3026.24	WEST
in space: 2936NNW Perim Spc (M.NNW18)							
2026WNNW Wall (G.WNW7.E3)	0.502	251.06	0.062	289.34	0.266	540.40	WEST
in space: 2026WNNW Perim Spc (G.WNW7)							
5765WNNW Wall (M.W15.E33)	0.502	2257.69	0.062	1474.79	0.328	3732.48	WEST
in space: 5765West Perim Spc (M.W15)							
5765WNNW Wall (M.SW16.E34)	0.502	876.03	0.062	572.25	0.328	1448.28	WEST
in space: 5765SW Perim Spc (M.SW16)							
25WNNW Wall (M.N18.E19)	0.000	0.00	0.062	1123.50	0.062	1123.50	WEST
in space: 25North Perim Spc (M.N18)							
70WNNW Wall (G.12.E17)	0.000	0.00	0.062	117.90	0.062	117.90	WEST
in space: 70Plnm (G.12)							
92WNNW Wall (G.12.E26)	0.000	0.00	0.062	27.50	0.062	27.50	WEST
in space: 92Plnm (G.12)							
25WNNW Wall (T.SSW37.E39)	0.000	0.00	0.062	439.25	0.062	439.25	WEST
in space: 25SSW Perim Spc (T.SSW37)							
70WNNW Wall (G.12.E19)	0.000	0.00	0.062	29.80	0.062	29.80	WEST
in space: 70Plnm (G.12)							
6MCRoof	0.000	0.00	0.047	27215.10	0.047	27215.10	WEST
in space: 6MCPlnm (G.11)							
10AWNW Wall (G.SSW7.E8)	0.502	429.70	0.062	184.20	0.370	613.90	WEST
in space: 10ASSW Perim Spc (G.SSW7)							
2026WNNW Wall (G.WNW9.E8)	0.502	217.24	0.062	250.36	0.266	467.60	WEST
in space: 2026WNNW Perim Spc (G.WNW9)							
6MCWNNW Wall (G.WSW1.E3)	0.000	0.00	0.062	1540.88	0.062	1540.88	WEST
in space: 6MCWSW Perim Spc (G.WSW1)							
92 Roof	0.000	0.00	0.047	7656.44	0.047	7656.44	ROOF
in space: 92Plnm (G.12)							
27MCRoof1	0.000	0.00	0.047	1244.85	0.047	1244.85	ROOF
in space: 27MCWNNW Perim Spc (G.WNW7)							
Exterior Wall 897	0.000	0.00	0.047	2916.00	0.047	2916.00	ROOF
in space: 6MC Top Spc							
Exterior Wall 898	0.000	0.00	0.047	29904.78	0.047	29904.78	ROOF
in space: Roof Spc (6MC)							
27MCRoof2	0.000	0.00	0.047	3970.01	0.047	3970.01	ROOF
in space: 27MCNNE Perim Spc (G.NNE8)							
SC3Flr (B.N1.U1)	0.000	0.00	0.010	7871.45	0.010	7871.45	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3WNNW Wall (B.N1.U2)	0.000	0.00	0.194	539.00	0.194	539.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3ESE Wall (B.N1.U3)	0.000	0.00	0.194	669.00	0.194	669.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3NNE Wall (B.N1.U4)	0.000	0.00	0.194	600.00	0.194	600.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3WNNW Wall (B.N1.U5)	0.000	0.00	0.194	457.50	0.194	457.50	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3NNE Wall (B.N1.U6)	0.000	0.00	0.194	605.00	0.194	605.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3Flr (B.SSW2.U7)	0.000	0.00	0.010	7891.75	0.010	7891.75	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3SSW Wall (B.SSW2.U8)	0.000	0.00	0.194	890.00	0.194	890.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3WNNW Wall (B.SSW2.U9)	0.000	0.00	0.194	409.00	0.194	409.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							

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SURFACE	-- W I N D O W S --		-- W A L L --		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
SC3SSW Wall (B.SSW2.U10)	0.000	0.00	0.194	315.00	0.194	315.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3ESE Wall (B.SSW2.U11)	0.000	0.00	0.194	957.00	0.194	957.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3WNW Wall (B.SSW2.U12)	0.000	0.00	0.194	548.00	0.194	548.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3Flr (B.C3.U13)	0.000	0.00	0.010	173.13	0.010	173.13	UNDERGRND
in space: SC3Core Spc (B.C3)							
SC3Flr (B.C4.U14)	0.000	0.00	0.010	177.00	0.010	177.00	UNDERGRND
in space: SC3Core Spc (B.C4)							
SC3Flr (B.C5.U15)	0.000	0.00	0.010	223.75	0.010	223.75	UNDERGRND
in space: SC3Core Spc (B.C5)							
SC3Flr (B.C6.U16)	0.000	0.00	0.010	483.50	0.010	483.50	UNDERGRND
in space: SC3Core Spc (B.C6)							
SC3Flr (B.ESE7.U17)	0.000	0.00	0.010	311.13	0.010	311.13	UNDERGRND
in space: SC3ESE Perim Spc (B.ESE7)							
SC3ESE Wall (B.ESE7.U18)	0.000	0.00	0.194	327.50	0.194	327.50	UNDERGRND
in space: SC3ESE Perim Spc (B.ESE7)							
SC2Flr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW1)							
SC2WNW Wall (B.WNW1.U2)	0.000	0.00	0.139	2024.40	0.139	2024.40	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW1)							
SC2Flr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: SC2NNE Perim Spc (B.NNE2)							
SC2NNE Wall (B.NNE2.U4)	0.000	0.00	0.139	2627.13	0.139	2627.13	UNDERGRND
in space: SC2NNE Perim Spc (B.NNE2)							
SC2Flr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: SC2Core Spc (B.C3)							
SC2Flr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: SC2Core Spc (B.C4)							
SC2Flr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2SSW Wall (B.SW5.U8)	0.000	0.00	0.139	624.40	0.139	624.40	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2WNW Wall (B.SW5.U9)	0.000	0.00	0.139	189.00	0.139	189.00	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2Flr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW6)							
SC2WNW Wall (B.WNW6.U11)	0.000	0.00	0.139	311.50	0.139	311.50	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW6)							
SC2Flr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2SSW Wall (B.SSW7.U13)	0.000	0.00	0.139	2002.70	0.139	2002.70	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2WNW Wall (B.SSW7.U14)	0.000	0.00	0.139	210.00	0.139	210.00	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2Flr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: SC2ESE Perim Spc (B.ESE8)							
SC2ESE Wall (B.ESE8.U16)	0.000	0.00	0.139	2734.90	0.139	2734.90	UNDERGRND
in space: SC2ESE Perim Spc (B.ESE8)							
SC2Flr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: SC2Core Spc (B.C9)							
SC2Flr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND

in space: SC2Core Spc (B.C10)



DEPT OF BLDGS121328205 Job Number



ES913062478 Scan Code

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
SC2Flr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: SC2Core Spc (B.C11)							
SC1Flr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW1)							
SC1WNW Wall (B.WNW1.U2)	0.000	0.00	0.111	2530.50	0.111	2530.50	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW1)							
SC1Flr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: SC1NNE Perim Spc (B.NNE2)							
SC1NNE Wall (B.NNE2.U4)	0.000	0.00	0.111	3283.91	0.111	3283.91	UNDERGRND
in space: SC1NNE Perim Spc (B.NNE2)							
SC1Flr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: SC1Core Spc (B.C3)							
SC1Flr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: SC1Core Spc (B.C4)							
SC1Flr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1SSW Wall (B.SW5.U8)	0.000	0.00	0.111	780.50	0.111	780.50	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1WNW Wall (B.SW5.U9)	0.000	0.00	0.111	236.25	0.111	236.25	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1Flr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW6)							
SC1WNW Wall (B.WNW6.U11)	0.000	0.00	0.111	389.38	0.111	389.38	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW6)							
SC1Flr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1SSW Wall (B.SSW7.U13)	0.000	0.00	0.111	2503.38	0.111	2503.38	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1WNW Wall (B.SSW7.U14)	0.000	0.00	0.111	262.50	0.111	262.50	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1Flr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: SC1ESE Perim Spc (B.ESE8)							
SC1ESE Wall (B.ESE8.U16)	0.000	0.00	0.111	3418.63	0.111	3418.63	UNDERGRND
in space: SC1ESE Perim Spc (B.ESE8)							
SC1Flr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: SC1Core Spc (B.C9)							
SC1Flr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND
in space: SC1Core Spc (B.C10)							
SC1Flr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: SC1Core Spc (B.C11)							
CFlr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: CWNW Perim Spc (B.WNW1)							
CWNW Wall (B.WNW1.U2)	0.000	0.00	0.111	2530.50	0.111	2530.50	UNDERGRND
in space: CWNW Perim Spc (B.WNW1)							
CFlr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: CNNE Perim Spc (B.NNE2)							
CNNE Wall (B.NNE2.U4)	0.000	0.00	0.111	3283.91	0.111	3283.91	UNDERGRND
in space: CNNE Perim Spc (B.NNE2)							
CFlr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: CCore Spc (B.C3)							
CFlr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: CCore Spc (B.C4)							
CFlr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND

in space: CSW Perim Spc (B.SW5)



DEPT OF BLDGS121328205 Job Number



ES630848915 Scan Code

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
CSSW Wall (B.SW5.U8)	0.000	0.00	0.111	780.50	0.111	780.50	UNDERGRND
in space: CSW Perim Spc (B.SW5)							
CWNW Wall (B.SW5.U9)	0.000	0.00	0.111	236.25	0.111	236.25	UNDERGRND
in space: CSW Perim Spc (B.SW5)							
CFlr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: CWNW Perim Spc (B.WNW6)							
CWNW Wall (B.WNW6.U11)	0.000	0.00	0.111	389.38	0.111	389.38	UNDERGRND
in space: CWNW Perim Spc (B.WNW6)							
CFlr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CSSW Wall (B.SSW7.U13)	0.000	0.00	0.111	2503.38	0.111	2503.38	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CWNW Wall (B.SSW7.U14)	0.000	0.00	0.111	262.50	0.111	262.50	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CFlr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: CESE Perim Spc (B.ESE8)							
CESE Wall (B.ESE8.U16)	0.000	0.00	0.111	3418.63	0.111	3418.63	UNDERGRND
in space: CESE Perim Spc (B.ESE8)							
CFlr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: CCore Spc (B.C9)							
CFlr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND
in space: CCore Spc (B.C10)							
CFlr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: CCore Spc (B.C11)							
GFlr (G.NW1.U1)	0.000	0.00	0.096	946.40	0.096	946.40	UNDERGRND
in space: GNW Perim Spc (G.NW1)							
GFlr (G.NW2.U2)	0.000	0.00	0.020	2684.87	0.020	2684.87	UNDERGRND
in space: GNW Perim Spc (G.NW2)							
GFlr (G.NNE3.U3)	0.000	0.00	0.077	1231.48	0.077	1231.48	UNDERGRND
in space: GNNE Perim Spc (G.NNE3)							
GFlr (G.SSW4.U4)	0.000	0.00	0.074	367.50	0.074	367.50	UNDERGRND
in space: GSSW Perim Spc (G.SSW4)							
GFlr (G.W5.U5)	0.000	0.00	0.054	837.75	0.054	837.75	UNDERGRND
in space: GWest Perim Spc (G.W5)							
GFlr (G.E6.U6)	0.000	0.00	0.073	917.16	0.073	917.16	UNDERGRND
in space: GEast Perim Spc (G.E6)							
GFlr (G.NNE7.U7)	0.000	0.00	0.017	3191.08	0.017	3191.08	UNDERGRND
in space: GNNE Perim Spc (G.NNE7)							
GFlr (G.W8.U8)	0.000	0.00	0.111	488.10	0.111	488.10	UNDERGRND
in space: GWest Perim Spc (G.W8)							
GFlr (G.SSW9.U9)	0.000	0.00	0.079	998.63	0.079	998.63	UNDERGRND
in space: GSSW Perim Spc (G.SSW9)							
GFlr (G.ESE10.U10)	0.000	0.00	0.055	449.12	0.055	449.12	UNDERGRND
in space: GESE Perim Spc (G.ESE10)							
GFlr (G.ESE11.U11)	0.000	0.00	0.065	2304.75	0.065	2304.75	UNDERGRND
in space: GESE Perim Spc (G.ESE11)							
GFlr (G.SSW12.U12)	0.000	0.00	0.083	1871.25	0.083	1871.25	UNDERGRND
in space: GSSW Perim Spc (G.SSW12)							
GFlr (G.C13.U13)	0.000	0.00	0.010	3143.80	0.010	3143.80	UNDERGRND
in space: GCore Spc (G.C13)							
GFlr (G.C14.U14)	0.000	0.00	0.010	581.17	0.010	581.17	UNDERGRND
in space: GCore Spc (G.C14)							
GFlr (G.NNE15.U15)	0.000	0.00	0.040	2182.50	0.040	2182.50	UNDERGRND

in space: GNNE Perim Spc (G.NNE15)



DEPT OF BLDGS121328205 Job Number



ES956333231 Scan Code

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
GFlr (G.C16.U16)	0.000	0.00	0.010	4376.04	0.010	4376.04	UNDERGRND
in space: GCore Spc (G.C16)							
GFlr (G.C17.U17)	0.000	0.00	0.010	7621.67	0.010	7621.67	UNDERGRND
in space: GCore Spc (G.C17)							

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

	AVERAGE U-VALUE/WINDOWS (BTU/HR-SQFT-F)	AVERAGE U-VALUE/WALLS (BTU/HR-SQFT-F)	AVERAGE U-VALUE WALLS+WINDOWS (BTU/HR-SQFT-F)	WINDOW AREA (SQFT)	WALL AREA (SQFT)	WINDOW+WALL AREA (SQFT)
NORTH	0.508	0.062	0.299	104727.42	91928.71	196656.17
EAST	0.503	0.062	0.215	55544.16	104400.76	159944.95
SOUTH-EAST	0.000	0.062	0.062	0.00	390.40	390.40
SOUTH	0.513	0.062	0.229	71763.50	121922.00	193685.50
SOUTH-WEST	0.420	0.062	0.218	2821.49	3683.55	6505.04
WEST	0.512	0.059	0.206	58641.11	122560.55	181201.63
ROOF	0.000	0.047	0.047	0.00	45692.09	45692.09
ALL WALLS	0.508	0.061	0.239	293497.72	444885.84	738384.13
WALLS+ROOFS	0.508	0.060	0.228	293497.72	490577.91	784076.25
UNDERGRND	0.000	0.040	0.040	0.00	198357.05	198357.05
BUILDING	0.508	0.054	0.190	293497.72	688934.94	982433.25

REPORT- LV-I Details of Constructions

WEATHER FILE- New York CityNY TMY2

NUMBER OF CONSTRUCTIONS 23

DELAYED 20

QUICK 3

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
EWall Construction	0.064	0.60	1	QUICK	0
Ceilg Construction	0.514	0.70	3	DELAYED	3
IWall Construction	2.700	0.70	3	QUICK	0
IFlr Construction	0.813	0.70	3	DELAYED	5
lMGFlr Construction	0.085	0.70	3	DELAYED	7
SC3UFCons (B.N1.U2)	0.010	0.70	3	DELAYED	43
SC3UWCons (B.N1.U2)	0.194	0.70	3	DELAYED	35
SC2UWCons (B.WNW1.U2)	0.139	0.70	3	DELAYED	38
SC1UWCons (B.WNW1.U2)	0.111	0.70	3	DELAYED	39
GUFCons (G.NW1.U2)	0.096	0.70	3	DELAYED	39
GUFCons (G.NW2.U3)	0.020	0.70	3	DELAYED	42
GUFCons (G.NNE3.U4)	0.077	0.70	3	DELAYED	40
GUFCons (G.SSW4.U5)	0.074	0.70	3	DELAYED	40
GUFCons (G.W5.U6)	0.054	0.70	3	DELAYED	41
GUFCons (G.E6.U7)	0.073	0.70	3	DELAYED	40
GUFCons (G.NNE7.U8)	0.017	0.70	3	DELAYED	43
GUFCons (G.W8.U9)	0.111	0.70	3	DELAYED	39
GUFCons (G.SSW9.U10)	0.079	0.70	3	DELAYED	40
GUFCons (G.ESE10.U11)	0.055	0.70	3	DELAYED	41
GUFCons (G.ESE11.U12)	0.065	0.70	3	DELAYED	41
GUFCons (G.SSW12.U13)	0.083	0.70	3	DELAYED	40
GUFCons (G.NNE15.U16)	0.040	0.70	3	DELAYED	42
Roof Construction	0.048	0.70	3	QUICK	0

REPORT- PS-B Utility and Fuel Use Summary

WEATHER FILE- New York CityNY TMY2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
EM1 ELECTRICITY													
KWH	492829.	408865.	401210.	360188.	419232.	478687.	558314.	531986.	459812.	384531.	363652.	436674.	5295980.
MAX KW	1076.0	1001.3	909.8	873.1	1035.9	1105.8	1190.9	1102.6	1128.5	894.3	889.2	970.2	1190.9
DAY/HR	23/ 9	4/ 9	11/ 9	30/18	10/14	25/13	17/13	27/14	5/13	10/13	22/ 9	4/ 9	7/17
EM2- ELECTRICITY													
KWH	268973.	242824.	272002.	268474.	329749.	388742.	439644.	423673.	375057.	300760.	264316.	270197.	3844411.
MAX KW	701.9	701.9	930.8	977.3	1159.3	1360.9	1414.1	1335.4	1301.9	1030.3	816.3	818.5	1414.1
DAY/HR	23/14	4/13	25/16	30/17	10/14	16/14	1/17	25/14	5/14	10/14	3/16	9/15	7/ 1
EM3- ELECTRICITY													
KWH	161113.	151831.	195085.	231343.	420614.	568890.	661242.	606044.	482594.	266350.	157786.	162888.	4065781.
MAX KW	434.2	460.9	944.0	1151.0	1341.3	1404.6	1601.1	1347.9	1267.9	1008.3	446.7	444.4	1601.1
DAY/HR	22/22	24/20	28/19	30/19	22/19	2/19	1/19	23/19	7/19	9/15	3/20	8/13	7/ 1
DM1 ELECTRICITY													
KWH	58518.	52857.	58518.	56748.	58588.	56608.	58588.	58588.	56608.	58588.	56537.	58518.	689267.
MAX KW	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1
DAY/HR	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/ 1
EM4 ELECTRICITY													
KWH	4533.	3836.	3892.	3364.	2494.	2193.	2224.	2250.	2246.	2852.	3668.	4183.	37736.
MAX KW	8.8	7.9	7.1	6.6	5.9	4.8	3.1	3.1	5.7	6.5	6.7	7.8	8.8
DAY/HR	23/ 9	4/ 9	1/ 9	2/ 9	7/ 8	1/ 9	1/ 2	1/ 2	20/ 8	31/ 8	22/ 9	4/ 9	1/23
EM5 ELECTRICITY													
KWH	202649.	186318.	212989.	214371.	221947.	215381.	223050.	222878.	215177.	221736.	211290.	207620.	2555406.
MAX KW	297.7	297.7	299.8	299.7	302.7	303.4	303.8	303.4	303.9	302.6	298.5	298.8	303.9
DAY/HR	1/15	1/14	25/16	30/17	22/17	24/11	17/14	27/14	6/10	10/14	4/12	9/16	9/ 6
FM1 NATURAL-GAS													
THERM	78785.	54990.	39127.	17927.	7689.	5244.	4715.	4848.	5082.	11245.	29491.	58625.	317769.
MAX THERM/HR	285.0	219.2	191.1	94.7	55.0	17.0	16.3	15.9	36.8	85.1	156.5	206.4	285.0
DAY/HR	23/ 9	4/ 9	6/ 9	2/ 9	7/ 8	17/ 8	2/ 8	26/ 8	20/ 8	30/ 8	23/ 8	4/ 9	1/23

WEATHER FILE- New York CityNY TMY2

		COOL LOAD	HEAT LOAD	ELEC USE	FUEL USE	Number of hours within each										PART LOAD range		TOTAL	
SUM		(MBTU)	(MBTU)	(KWH)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	RUN		
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KW)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS		
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Boiler-Retail-1																			
SUM			-3028.5	0.0	5242.0	LOAD1229	678	281	71	37	18	7	2	1	0	0	2324		
PEAK			-9757.2	0.0	12433.4	ELEC	0	0	0	0	0	0	0	0	0	0	0		
MON/DAY			1/23	0/ 0	1/23	FUEL	769	849	486	132	43	32	8	4	1	0	0		
Boiler-Retail-2																			
SUM			-1.5	0.0	9.0	LOAD	11	0	0	0	0	0	0	0	0	0	11		
PEAK			-369.1	0.0	1684.5	ELEC	0	0	0	0	0	0	0	0	0	0	0		
MON/DAY			11/ 7	0/ 0	11/ 7	FUEL	9	2	0	0	0	0	0	0	0	0	11		
Fake - HP Loop Boiler																			
SUM			-893.1	0.0	2548.2	LOAD1205	37	35	0	0	0	0	0	0	0	0	1277		
PEAK			-4536.6	0.0	8875.7	ELEC	0	0	0	0	0	0	0	0	0	0	0		
MON/DAY			12/22	0/ 0	12/22	FUEL1082	143	39	29	0	0	0	0	0	0	0	1293		
Boiler-Lower-1																			
SUM			-4682.9	0.0	7161.9	LOAD1711	1009	883	602	248	68	15	3	0	0	0	4539		
PEAK			-4345.1	0.0	5668.3	ELEC	0	0	0	0	0	0	0	0	0	0	0		
MON/DAY			1/23	0/ 0	1/23	FUEL1253	1101	936	686	373	146	37	7	0	0	0	4539		
Boiler-Upper-1																			
SUM			-7821.3	0.0	11985.6	LOAD4212	719	704	700	630	377	164	63	15	6	0	7590		
PEAK			-6067.3	0.0	7617.5	ELEC	0	0	0	0	0	0	0	0	0	0	0		
MON/DAY			1/23	0/ 0	1/23	FUEL3823	842	672	670	671	512	275	81	36	8	0	7590		
Boiler-Upper-2																			
SUM			-12.3	0.0	94.3	LOAD	312	1	0	0	0	0	0	0	0	0	313		
PEAK			-695.5	0.0	1143.8	ELEC	0	0	0	0	0	0	0	0	0	0	0		
MON/DAY			9/20	0/ 0	9/20	FUEL	304	9	0	0	0	0	0	0	0	0	313		
Chiller 1																			
SUM		3410.8	0.0	428522.4		LOAD7549	758	376	76	0	0	0	0	0	0	0	8759		
PEAK		3679.4	0.0	198.8		ELEC6094	980	881	636	168	0	0	0	0	0	0	8759		
MON/DAY		7/ 1	0/ 0	7/17															
Chiller 2																			
SUM		0.0	0.0	0.0		LOAD	0	0	0	0	0	0	0	0	0	0	0		
PEAK		0.0	0.0	0.0		ELEC	0	0	0	0	0	0	0	0	0	0	0		
MON/DAY		0/ 0	0/ 0	0/ 0															
Cooling Tower - Chiller Plant																			
SUM		6341.2		14381.3		LOAD	1	0	7380	502	447	73	357	0	0	0	8760		
PEAK		4664.2		60.9		ELEC1170	192	35	2	0	0	0	0	0	0	155	1554		
MON/DAY		7/17		6/16															
Cooling Tower - HP Loop																			
SUM		30951.9		5630.0		LOAD	0	0	0	0	6702	1	0	0	0	0	6703		
PEAK		17955.4		14.2		ELEC1762	32	0	0	0	0	0	0	0	0	0	1794		
MON/DAY		7/ 1		7/ 1															

REPORT- PS-C Equipment Loads and Energy Use

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

Nordstrom Elec DHW Heater														
SUM	-267.0	80767.4	LOAD2444	1037	708	865	808	1076	705	612	265	240	0	8760
PEAK	-85.6	25.1	ELEC2179	1214	689	864	837	1065	753	616	269	194	80	8760
MON/DAY	3/ 1	2/ 1												
Lower Res Gas DHW Heater														
SUM	-1757.9	0.0	2368.0 LOAD	0	456	1224	1188	1221	1282	1396	984	664	345	0 8760
PEAK	-373.5	0.0	477.5 ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	4/30	0/ 0	1/ 9 FUEL	0	0	1097	1380	1023	1366	1479	1166	641	608	0 8760
Upper Res Gas DHW Heater														
SUM	-1757.9	0.0	2368.0 LOAD	0	456	1224	1188	1221	1282	1396	984	664	345	0 8760
PEAK	-373.5	0.0	477.5 ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	4/30	0/ 0	1/ 9 FUEL	0	0	1097	1380	1023	1366	1479	1166	641	608	0 8760
PCHW Pump														
SUM		17258.8	FLOW6254	718	765	161	176	676	10	0	0	0	0	8760
PEAK		7.5	RPM	0	0	0	0	0	7780	222	758	0	0	8760
MON/DAY		9/ 6	ELEC6488	1336	205	708	23	0	0	0	0	0	0	8760
SCW90 Pump														
SUM		596099.1	FLOW	0	0	0	0	0	0	0	0	0	0	8760 8760
PEAK		68.0	RPM	0	0	0	0	0	0	8760	0	0	0	8760
MON/DAY		1/ 1	ELEC	0	0	0	0	8760	0	0	0	0	0	8760
Res PCW Pump														
SUM		1229424.1	FLOW	0	0	0	0	0	0	0	0	0	0	8760 8760
PEAK		147.0	RPM	0	0	0	0	0	2057	6703	0	0	0	8760
MON/DAY		1/ 1	ELEC	0	0	0	2057	6703	0	0	0	0	0	8760
Retail PCW Pump														
SUM		249140.8	FLOW	1	0	0	0	0	8759	0	0	0	0	8760
PEAK		28.4	RPM	0	0	0	0	0	1	8759	0	0	0	8760
MON/DAY		1/ 1	ELEC	1	0	8759	0	0	0	0	0	0	0	8760
Upper Res PHW Pump														
SUM		18933.9	FLOW6103	2057	486	18	0	0	0	0	0	0	0	8664
PEAK		3.3	RPM	0	0	0	0	8664	0	0	0	0	0	8664
MON/DAY		1/23	ELEC6620	2044	0	0	0	0	0	0	0	0	0	8664
Lower Res PHW Pump														
SUM		5021.4	FLOW1891	1536	904	232	62	11	6	0	0	0	0	4642
PEAK		1.8	RPM	0	0	0	0	4642	0	0	0	0	0	4642
MON/DAY		1/23	ELEC2296	2346	0	0	0	0	0	0	0	0	0	4642
Retail PHW Pump														
SUM		4431.0	FLOW2321	157	14	1	0	0	0	0	0	0	0	2493
PEAK		3.0	RPM	0	0	0	0	2493	0	0	0	0	0	2493
MON/DAY		1/23	ELEC	0	2493	0	0	0	0	0	0	0	0	2493
Upper DHW Res Pump														
SUM		4674.7	FLOW	0	0	0	0	0	0	0	0	0	8760	8760
PEAK		0.5	RPM	0	0	0	0	0	0	0	0	0	8760	8760
MON/DAY		1/ 1	ELEC	0	0	0	0	0	0	0	0	0	8760	8760
Lower DHW Res Pump														
SUM		4674.7	FLOW	0	0	0	0	0	0	0	0	0	8760	8760
PEAK		0.5	RPM	0	0	0	0	0	0	0	0	0	8760	8760
MON/DAY		1/ 1	ELEC	0	0	0	0	0	0	0	0	0	8760	8760

Extell 221 West 57th St

DEPT OF BLDGS121328205 Job Number

ES129383888 Scan Code N 1

REPORT- PS-C Equipment Loads and Energy Use

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

SCW 67 Pump															
SUM	147377.3	FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	16.8	RPM	0	0	0	0	0	0	0	8760	0	0	0	8760	
MON/DAY	1/ 1	ELEC	0	0	0	0	8760	0	0	0	0	0	0	8760	
SCW 46 Pump															
SUM	316108.6	FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	36.1	RPM	0	0	0	0	0	0	0	8760	0	0	0	8760	
MON/DAY	1/ 1	ELEC	0	0	0	0	8760	0	0	0	0	0	0	8760	

WEATHER FILE- New York CityNY TMY2

		COIL LOAD	PIPE GAIN	NET LOAD	OVERLOAD	Number of hours within each										PART LOAD range			TOTAL		
		SUM	(MBTU)	(MBTU)	(MBTU)														RUN		
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	00	10	20	30	40	50	60	70	80	90	100	HOURS				
---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----				
PCHW Loop																					
	SUM	3365.8	0.0	3410.8	0.0	COOL6780	831	489	253	224	121	56	5	0	0	0	8759				
	PEAK	3660.5	0.0	3679.4	0.0	FLOW6254	718	765	161	176	676	10	0	0	0	0	8760				
	MON/DAY	7/ 1	0/ 0	7/ 1	0/ 0																
Retail PCW Loop																					
	SUM	5643.4	0.0	6341.2	0.0	COOL7962	743	55	0	0	0	0	0	0	0	0	8760				
	PEAK	4609.4	0.0	4664.2	0.0	FLOW 1	0	0	0	0	8759	0	0	0	0	0	8760				
	MON/DAY	7/ 1	0/ 0	7/17	0/ 0																
Upper Res PHW Loop																					
	SUM	-7871.7	0.0	-7833.6	0.0	HEAT5244	1404	1007	227	21	0	0	0	0	0	0	7903				
	PEAK	-6074.7	0.0	-6067.3	0.0	FLOW6103	2057	486	18	0	0	0	0	0	0	0	8664				
	MON/DAY	1/23	0/ 0	1/23	0/ 0																
Lower Res PHW Loop																					
	SUM	-4693.6	0.0	-4682.9	0.0	HEAT1711	1009	883	602	248	68	15	3	0	0	0	4539				
	PEAK	-4347.7	0.0	-4345.1	0.0	FLOW1891	1536	904	232	62	11	6	0	0	0	0	4642				
	MON/DAY	1/23	0/ 0	1/23	0/ 0																
Retail Elec PHW Loop																					
	SUM	-3039.3	0.0	-3030.0	0.0	HEAT1918	352	55	9	1	0	0	0	0	0	0	2335				
	PEAK	-9677.6	0.0	-9757.2	0.0	FLOW2321	157	14	1	0	0	0	0	0	0	0	2493				
	MON/DAY	1/23	0/ 0	1/23	0/ 0																
Upper DHW Res Loop																					
	SUM	-1772.2	0.0	-1757.9	-1.4	HEAT 0	456	1224	1188	1221	1282	1396	984	664	345	0	8760				
	PEAK	-384.1	0.0	-373.5	-18.3	FLOW 0	0	0	0	0	0	0	0	3797	4461	502	8760				
	MON/DAY	3/ 1	0/ 0	4/30	2/ 4																
Hours overloaded during heating: 128																					
Lower DHW Res Loop																					
	SUM	-1772.2	0.0	-1757.9	-1.4	HEAT 0	456	1224	1188	1221	1282	1396	984	664	345	0	8760				
	PEAK	-384.1	0.0	-373.5	-18.3	FLOW 0	0	0	0	0	0	0	0	3797	4461	502	8760				
	MON/DAY	3/ 1	0/ 0	4/30	2/ 4																
Hours overloaded during heating: 128																					
Retail DHW Loop																					
	SUM	-267.0	0.0	-267.0	0.0	HEAT2444	1037	708	865	808	1076	705	612	265	240	0	8760				
	PEAK	-85.6	0.0	-85.6	0.0	FLOW2161	893	730	720	290	1239	554	1013	303	606	251	8760				
	MON/DAY	3/ 1	0/ 0	3/ 1	0/ 0																
Res PCW Loop																					
	SUM	-1387.6	180.4	0.0	-893.1	0.0	HEAT1205	37	35	0	0	0	0	0	0	0	1277				
	PEAK	-2712.3	929.5	0.0	-4536.6	0.0	FLOW 0	0	0	0	0	0	0	0	0	1277	1277				
	MON/DAY	12/22	2/ 4	0/ 0	12/22	0/ 0															
	SUM	-215.4	28315.2	0.0	30951.9	0.0	COOL3986	1653	1012	52	0	0	0	0	0	0	6703				
	PEAK	-561.4	17548.0	0.0	17955.4	0.0	FLOW 0	0	0	0	0	0	0	0	0	6703	6703				
	MON/DAY	2/12	7/ 1	0/ 0	7/ 1	0/ 0															

-(CONTINUED)-----

Hours high/low alarm limits exceeded: 0/ 0

Extell 221 West 57th St

DEPT OF BLDGS121328205 Job Number

ES880571722 Scan Code N 1

REPORT- PS-D Circulation Loop Loads

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

Note: The yearly WLHP summaries include three entries each:

1. Data for when the loop is heating dominated, with coincident cooling
2. Data for when the loop is cooling dominated, with coincident heating
3. Data for when the loop is floating, with coincident heating and cooling

REPORT- PS-E Energy End-Use Summary for all Electric Meters

WEATHER FILE- New York CityNY TMY2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
KWH	325408.	4866.	206290.	95329.	27551.	0.	278445.	184065.	35958.	0.	7763.	22938.	1188613.
MAX KW	773.041	12.307	409.320	324.273	221.468	0.000	472.801	298.571	144.210	0.000	24.325	61.660	2355.323
DAY/HR	2/10	2/20	2/10	23/ 8	14/15	0/ 0	23/ 8	14/15	1/ 9	0/ 0	23/13	1/ 1	23/10
PEAK ENDUSE	773.041	9.780	409.320	273.525	30.434	0.000	466.681	289.860	89.870	0.000	12.813	0.000	
PEAK PCT	32.8	0.4	17.4	11.6	1.3	0.0	19.8	12.3	3.8	0.0	0.5	0.0	
FEB													
KWH	293973.	4397.	186346.	66359.	33833.	0.	237294.	163771.	32479.	0.	7363.	20718.	1046531.
MAX KW	773.041	12.307	409.320	262.822	307.618	0.000	458.226	303.829	144.210	0.000	25.084	61.660	2274.762
DAY/HR	1/10	1/20	1/10	4/ 8	24/15	0/ 0	26/10	22/16	1/ 9	0/ 0	1/13	1/ 1	4/10
PEAK ENDUSE	773.041	9.780	409.320	212.523	33.458	0.000	451.445	281.952	89.870	0.000	13.373	0.000	
PEAK PCT	34.0	0.4	18.0	9.3	1.5	0.0	19.8	12.4	4.0	0.0	0.6	0.0	
MAR													
KWH	325408.	4866.	206290.	45641.	70897.	0.	243686.	179805.	35958.	0.	8205.	22938.	1143696.
MAX KW	773.041	12.307	409.320	189.911	1091.594	0.027	454.092	347.479	144.210	0.000	25.084	61.660	2939.198
DAY/HR	1/10	1/20	1/10	1/ 8	25/17	25/16	28/20	28/17	1/ 9	0/ 0	1/13	1/ 1	25/17
PEAK ENDUSE	704.626	7.385	350.764	8.094	1091.594	0.000	315.102	346.688	96.140	0.000	18.804	0.000	
PEAK PCT	24.0	0.3	11.9	0.3	37.1	0.0	10.7	11.8	3.3	0.0	0.6	0.0	
APR													
KWH	317842.	4777.	200660.	19733.	120619.	7.	230054.	175997.	34799.	0.	7805.	22198.	1134489.
MAX KW	773.041	12.307	409.320	128.800	1389.586	2.193	429.297	369.095	144.210	0.000	24.896	61.660	3253.761
DAY/HR	1/10	1/20	1/10	3/ 7	30/17	30/17	3/ 8	30/17	1/ 9	0/ 0	2/13	1/ 2	30/17
PEAK ENDUSE	704.626	7.385	350.764	0.319	1389.586	2.193	315.255	369.095	96.140	0.000	18.398	0.000	
PEAK PCT	21.7	0.2	10.8	0.0	42.7	0.1	9.7	11.3	3.0	0.0	0.6	0.0	
MAY													
KWH	327155.	4906.	206901.	5004.	410922.	576.	233936.	197068.	35958.	0.	7259.	22938.	1452624.
MAX KW	773.041	12.307	409.320	81.521	1885.608	12.417	371.133	393.575	144.210	0.000	22.640	61.660	3789.914
DAY/HR	1/10	1/20	1/10	7/ 8	10/14	22/19	7/20	10/16	1/ 9	0/ 0	6/13	1/ 2	10/14
PEAK ENDUSE	704.626	7.385	350.764	0.000	1885.608	11.269	318.087	389.751	100.320	0.000	22.104	0.000	
PEAK PCT	18.6	0.2	9.3	0.0	49.8	0.3	8.4	10.3	2.6	0.0	0.6	0.0	
JUN													
KWH	314348.	4697.	199438.	444.	694832.	2656.	226540.	204227.	34799.	0.	6321.	22198.	1710501.
MAX KW	773.041	12.307	409.320	12.420	2028.879	72.319	318.910	396.466	144.210	0.000	20.398	61.660	3892.242
DAY/HR	3/10	3/20	3/10	1/ 5	16/15	16/15	24/11	12/16	1/ 9	0/ 0	19/13	1/ 2	25/14
PEAK ENDUSE	704.626	7.385	350.764	0.000	1939.539	69.396	318.691	381.557	100.320	0.000	19.964	0.000	
PEAK PCT	18.1	0.2	9.0	0.0	49.8	1.8	8.2	9.8	2.6	0.0	0.5	0.0	
JUL													
KWH	327155.	4906.	206901.	30.	877605.	7711.	234539.	219400.	35958.	0.	5917.	22938.	1943061.
MAX KW	773.041	12.307	409.320	1.371	2377.422	75.043	319.366	464.773	144.210	0.000	18.457	61.660	4353.509
DAY/HR	1/10	1/20	1/10	5/ 5	1/17	1/17	17/14	17/ 9	1/ 9	0/ 0	3/13	1/ 2	1/17
PEAK ENDUSE	704.626	7.385	350.764	0.000	2377.422	75.043	319.345	409.133	96.140	0.000	13.650	0.000	
PEAK PCT	16.2	0.2	8.1	0.0	54.6	1.7	7.3	9.4	2.2	0.0	0.3	0.0	
AUG													
KWH	327155.	4906.	206901.	211.	788168.	5254.	234393.	213923.	35958.	0.	5612.	22938.	1845419.
MAX KW	773.041	12.307	409.320	4.921	1982.729	72.359	318.915	390.588	144.210	0.000	17.277	61.660	3907.476
DAY/HR	1/10	1/20	1/10	5/ 8	27/15	25/14	27/14	29/17	1/ 9	0/ 0	15/13	1/ 2	27/15
PEAK ENDUSE	704.626	7.385	350.764	0.000	1982.729	71.128	318.852	380.752	77.330	0.000	13.911	0.000	
PEAK PCT	18.0	0.2	9.0	0.0	50.7	1.8	8.2	9.7	2.0	0.0	0.4	0.0	

REPORT- PS-E Energy End-Use Summary for all Electric Meters

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

SEP													
KWH	314348.	4697.	199438.	1462.	582159.	3722.	226499.	196886.	34799.	0.	5288.	22198.	1591494.
MAX KW	773.041	12.307	409.320	28.365	1926.935	70.514	402.776	400.861	144.210	0.000	17.214	61.660	3822.447
DAY/HR	3/10	3/20	3/10	25/ 8	4/17	5/14	19/23	6/ 9	1/ 9	0/ 0	20/13	1/ 2	4/17
PEAK ENDUSE	704.626	7.385	350.764	0.000	1926.935	16.233	318.459	389.170	96.140	0.000	12.735	0.000	
PEAK PCT	18.4	0.2	9.2	0.0	50.4	0.4	8.3	10.2	2.5	0.0	0.3	0.0	
OCT													
KWH	327155.	4906.	206901.	12027.	197130.	85.	236011.	185828.	35958.	0.	5880.	22938.	1234818.
MAX KW	773.041	12.307	409.320	104.646	1397.223	4.527	457.491	363.010	144.210	0.000	18.262	61.660	3236.136
DAY/HR	1/10	1/20	1/10	31/ 8	9/15	10/12	25/17	9/15	1/ 9	0/ 0	30/13	1/ 2	9/15
PEAK ENDUSE	704.626	7.385	350.764	0.226	1397.223	3.961	316.964	363.010	77.330	0.000	14.648	0.000	
PEAK PCT	21.8	0.2	10.8	0.0	43.2	0.1	9.8	11.2	2.4	0.0	0.5	0.0	
NOV													
KWH	312601.	4656.	198827.	31298.	43583.	0.	232166.	170900.	34799.	0.	6225.	22198.	1057251.
MAX KW	773.041	12.307	409.320	183.262	440.859	0.000	428.209	310.612	144.210	0.000	20.151	61.660	2264.631
DAY/HR	1/10	1/20	1/10	22/ 7	3/15	0/ 0	21/16	4/14	1/ 9	0/ 0	21/13	1/ 2	4/14
PEAK ENDUSE	704.626	7.385	350.764	22.198	435.080	0.000	313.942	310.612	100.320	0.000	19.705	0.000	
PEAK PCT	31.1	0.3	15.5	1.0	19.2	0.0	13.9	13.7	4.4	0.0	0.9	0.0	
DEC													
KWH	325408.	4866.	206290.	67248.	35382.	0.	253731.	181131.	35958.	0.	7129.	22938.	1140081.
MAX KW	773.041	12.307	409.320	261.642	496.156	0.000	439.600	308.633	144.210	0.000	22.317	61.660	2334.173
DAY/HR	2/10	2/20	2/10	4/ 7	9/14	0/ 0	3/19	9/14	1/ 9	0/ 0	24/13	1/ 1	9/14
PEAK ENDUSE	704.626	7.385	350.764	30.238	496.156	0.000	314.263	308.633	100.320	0.000	21.788	0.000	
PEAK PCT	30.2	0.3	15.0	1.3	21.3	0.0	13.5	13.2	4.3	0.0	0.9	0.0	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
KWH	3837956.	57448.	2431182.	344786.	3882681.	20011.	2867293.	2273000.	423382.	0.	80767.	270071.	16488578.
MAX KW	773.041	12.307	409.320	324.273	2377.422	75.043	472.801	464.773	144.210	0.000	25.084	61.660	4353.509
MON/DY	1/ 2	1/ 2	1/ 2	1/23	7/ 1	7/ 1	1/23	7/17	1/ 1	0/ 0	2/ 1	1/ 1	7/ 1
PEAK ENDUSE	704.626	7.385	350.764	0.000	2377.422	75.043	319.345	409.133	96.140	0.000	13.650	0.000	
PEAK PCT	16.2	0.2	8.1	0.0	54.6	1.7	7.3	9.4	2.2	0.0	0.3	0.0	

REPORT- PS-E Energy End-Use Summary for all Fuel Meters

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	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
MBTU	0.	0.	0.	7419.	0.	0.	0.	0.	0.	0.	459.	0.	7879.
MAX MBTU/HR	0.0	0.0	0.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	28.5
DAY/HR	0/ 0	0/ 0	0/ 0	23/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	9/ 8	0/ 0	23/ 9
PEAK ENDUSE	0.0	0.0	0.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
PEAK PCT	0.0	0.0	0.0	96.9	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	
FEB													
MBTU	0.	0.	0.	5067.	0.	0.	0.	0.	0.	0.	432.	0.	5499.
MAX MBTU/HR	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	21.9
DAY/HR	0/ 0	0/ 0	0/ 0	4/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	1/ 8	0/ 0	4/ 9
PEAK ENDUSE	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
PEAK PCT	0.0	0.0	0.0	95.6	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	
MAR													
MBTU	0.	0.	0.	3435.	0.	0.	0.	0.	0.	0.	477.	0.	3913.
MAX MBTU/HR	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	19.1
DAY/HR	0/ 0	0/ 0	0/ 0	6/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	1/ 8	0/ 0	6/ 9
PEAK ENDUSE	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
PEAK PCT	0.0	0.0	0.0	95.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	
APR													
MBTU	0.	0.	0.	1343.	0.	0.	0.	0.	0.	0.	450.	0.	1793.
MAX MBTU/HR	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	9.5
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	1/ 8	0/ 0	2/ 9
PEAK ENDUSE	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
PEAK PCT	0.0	0.0	0.0	90.3	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	
MAY													
MBTU	0.	0.	0.	347.	0.	0.	0.	0.	0.	0.	422.	0.	769.
MAX MBTU/HR	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	5.5
DAY/HR	0/ 0	0/ 0	0/ 0	7/ 8	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	7/ 8	0/ 0	7/ 8
PEAK ENDUSE	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
PEAK PCT	0.0	0.0	0.0	83.9	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	
JUN													
MBTU	0.	0.	0.	155.	0.	0.	0.	0.	0.	0.	369.	0.	524.
MAX MBTU/HR	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.7
DAY/HR	0/ 0	0/ 0	0/ 0	1/ 6	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	14/ 8	0/ 0	17/ 8
PEAK ENDUSE	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	
PEAK PCT	0.0	0.0	0.0	53.6	0.0	0.0	0.0	0.0	0.0	0.0	46.4	0.0	
JUL													
MBTU	0.	0.	0.	126.	0.	0.	0.	0.	0.	0.	346.	0.	472.
MAX MBTU/HR	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.6
DAY/HR	0/ 0	0/ 0	0/ 0	29/ 4	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	30/ 8	0/ 0	2/ 8
PEAK ENDUSE	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
PEAK PCT	0.0	0.0	0.0	56.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0	0.0	
AUG													
MBTU	0.	0.	0.	159.	0.	0.	0.	0.	0.	0.	326.	0.	485.
MAX MBTU/HR	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.6
DAY/HR	0/ 0	0/ 0	0/ 0	10/ 24	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	5/ 8	0/ 0	26/ 8
PEAK ENDUSE	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
PEAK PCT	0.0	0.0	0.0	57.6	0.0	0.0	0.0	0.0	0.0	0.0	42.4	0.0	

REPORT- PS-E Energy End-Use Summary for all Fuel Meters

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

SEP													
MBTU	0.	0.	0.	193.	0.	0.	0.	0.	0.	0.	315.	0.	508.
MAX MBTU/HR	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	3.7
DAY/HR	0/ 0	0/ 0	0/ 0	20/ 8	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	20/ 8	0/ 0	20/ 8
PEAK ENDUSE	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
PEAK PCT	0.0	0.0	0.0	81.4	0.0	0.0	0.0	0.0	0.0	0.0	18.6	0.0	
OCT													
MBTU	0.	0.	0.	778.	0.	0.	0.	0.	0.	0.	347.	0.	1125.
MAX MBTU/HR	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	8.5
DAY/HR	0/ 0	0/ 0	0/ 0	30/ 8	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	30/ 8	0/ 0	30/ 8
PEAK ENDUSE	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
PEAK PCT	0.0	0.0	0.0	91.5	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	
NOV													
MBTU	0.	0.	0.	2579.	0.	0.	0.	0.	0.	0.	371.	0.	2949.
MAX MBTU/HR	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	15.7
DAY/HR	0/ 0	0/ 0	0/ 0	23/ 8	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	22/ 8	0/ 0	23/ 8
PEAK ENDUSE	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
PEAK PCT	0.0	0.0	0.0	95.7	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	
DEC													
MBTU	0.	0.	0.	5440.	0.	0.	0.	0.	0.	0.	423.	0.	5862.
MAX MBTU/HR	0.0	0.0	0.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	20.6
DAY/HR	0/ 0	0/ 0	0/ 0	4/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	4/ 8	0/ 0	4/ 9
PEAK ENDUSE	0.0	0.0	0.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	
PEAK PCT	0.0	0.0	0.0	96.1	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
MBTU	0.	0.	0.	27041.	0.	0.	0.	0.	0.	0.	4736.	0.	31777.
MAX MBTU/HR	0.0	0.0	0.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	28.5
MON/DY	0/ 0	0/ 0	0/ 0	1/23	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	1/ 9	0/ 0	1/23
PEAK ENDUSE	0.0	0.0	0.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
PEAK PCT	0.0	0.0	0.0	96.9	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	

REPORT- PV-A Plant Design Parameters

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*** CIRCULATION LOOPS ***

HEATING CAPACITY (MBTU/HR)	COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)
PCHW Loop 0.000	5.167	856.0	56.6	0.0	0.00	0.0	0.00	1284.0	1.00
Retail PCW Loop 0.000	19.783	3933.2	61.6	0.0	0.00	0.0	0.00	5899.8	1.00
Upper Res PHW Loop -12.478	0.000	501.6	36.6	0.0	0.00	0.0	0.00	752.4	1.00
Lower Res PHW Loop -5.858	0.000	235.4	36.6	0.0	0.00	0.0	0.00	353.2	1.00
Retail Elec PHW Loop -22.152	0.000	887.4	36.6	0.0	0.00	0.0	0.00	1331.1	1.00
Upper DHW Res Loop -0.382	0.000	38.7	6.4	0.0	0.00	0.0	0.00	58.1	1.00
Lower DHW Res Loop -0.382	0.000	38.7	6.4	0.0	0.00	0.0	0.00	58.1	1.00
Retail DHW Loop -0.086	0.000	2.2	0.0	0.0	0.00	0.0	0.00	3.2	1.00
Res PCW Loop -20.206	49.157	9456.3	51.6	0.0	0.00	0.0	0.00	14184.4	1.00
___SCW 90 Loop -12.878	27.091	5319.9	41.6	0.0	0.00	0.0	0.00	7979.9	1.00
___SCW 67 Loop -2.649	6.698	1315.3	41.6	0.0	0.00	0.0	0.00	1972.9	1.00
___SCW 46 Loop -5.681	14.366	2821.1	41.6	0.0	0.00	0.0	0.00	4231.7	1.00

*** PUMPS ***

ATTACHED TO	FLOW (GAL/MIN)	HEAD (FT)	HEAD SETPOINT (FT)	CAPACITY CONTROL	POWER (KW)	MECHANICAL EFFICIENCY (FRAC)	MOTOR EFFICIENCY (FRAC)
PCHW Pump PCHW Loop PRIMARY LOOP	2 PUMP(s) 856.0	75.0	37.6	VFD&STAGED	17.681	0.760	0.900
SCW90 Pump ___SCW 90 Loop SECONDARY LOOP	1 PUMP(s) 5319.9	125.0	42.6	VAR-SPEED	152.959	0.910	0.900
Res PCW Pump Res PCW Loop	1 PUMP(s) 9456.3	150.0	32.6	VAR-SPEED	326.266	0.910	0.900

REPORT- PV-A Plant Design Parameters

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

PRIMARY LOOP

Retail PCW Pump	3 PUMP(s)							
Retail PCW Loop		3933.2	110.0	42.6	VFD&STAGED	99.517	0.910	0.900
PRIMARY LOOP								
Upper Res PHW Pump	1 PUMP(s)							
Upper Res PHW Loop		501.6	205.0	32.6	VAR-SPEED	23.652	0.910	0.900
PRIMARY LOOP								
Lower Res PHW Pump	1 PUMP(s)							
Lower Res PHW Loop		235.4	195.0	32.6	VAR-SPEED	10.560	0.910	0.900
PRIMARY LOOP								
Retail PHW Pump	1 PUMP(s)							
Retail Elec PHW Loop		887.4	80.0	32.6	VAR-SPEED	16.329	0.910	0.900
PRIMARY LOOP								
Upper DHW Res Pump	1 PUMP(s)							
Upper DHW Res Loop		29.0	80.0	0.0	ONE-SPEED	0.534	0.910	0.900
PRIMARY LOOP								
Lower DHW Res Pump	1 PUMP(s)							
Lower DHW Res Loop		29.0	80.0	0.0	ONE-SPEED	0.534	0.910	0.900
PRIMARY LOOP								
SCW 67 Pump	1 PUMP(s)							
__SCW 67 Loop		1315.3	125.0	42.6	VAR-SPEED	37.817	0.910	0.900
SECONDARY LOOP								
SCW 46 Pump	1 PUMP(s)							
__SCW 46 Loop		2821.1	125.0	42.6	VAR-SPEED	81.113	0.910	0.900
SECONDARY LOOP								

*** PRIMARY EQUIPMENT ***

EQUIPMENT TYPE	ATTACHED TO	RATED CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	RATED EIR (FRAC)	RATED HIR (FRAC)	AUXILIARY (KW)
Boiler-Retail-1 HW-BOILER	Retail Elec PHW Loop	-11.076	443.7	0.000	1.250	0.000
Boiler-Retail-2 HW-BOILER	Retail Elec PHW Loop	-11.076	443.7	0.000	1.250	0.000
Fake - HP Loop Boiler HW-BOILER	Res PCW Loop	-20.206	9456.3	0.000	1.250	0.000
Boiler-Lower-1 HW-BOILER	Lower Res PHW Loop	-5.858	235.4	0.000	1.250	0.000
Boiler-Upper-1 HW-BOILER	Upper Res PHW Loop	-6.239	250.8	0.000	1.250	0.000
Boiler-Upper-2 HW-BOILER	Upper Res PHW Loop	-6.239	250.8	0.000	1.250	0.000
Chiller 1 ELEC-OPEN-CENT	PCHW Loop	8.379	1378.9	0.162	0.000	0.000

REPORT- PV-A Plant Design Parameters

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

Retail PCW Loop		9.501	1898.8					
Chiller 2								
ELEC-OPEN-CENT	PCHW Loop	8.379	1378.9	0.162	0.000	0.000		
	Retail PCW Loop	9.501	1898.8					
*** COOLING TOWERS ***								
EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	NUMBER OF CELLS	FAN POWER PER CELL (KW)	SPRAY PWR PER CELL (KW)	AUXILIARY (KW)	
Cooling Tower - Chiller Plant								
OPEN-TWR	Retail PCW Loop	19.783	3953.5	1	60.873	0.000	0.000	
Cooling Tower - HP Loop								
OPEN-TWR	Res PCW Loop	49.157	9823.5	1	103.325	0.000	0.000	
*** DW-HEATERS ***								
EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	EIR (FRAC)	HIR (FRAC)	AUXILIARY (KW)	TANK (GAL)	TANK UA (BTU/HR-F)
Nordstrom Elec DHW Heater								
ELEC DW-HEATER	Retail DHW Loop	-0.086	2.2	1.000	0.000	0.000	150.0	15.00
Lower Res Gas DHW Heater								
GAS DW-HEATER	Lower DHW Res Loop	-0.382	38.7	0.000	1.250	0.000	600.0	180.00
Upper Res Gas DHW Heater								
GAS DW-HEATER	Upper DHW Res Loop	-0.382	38.7	0.000	1.250	0.000	600.0	180.00

REPORT- SV-A System Design Parameters for SC2 (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	28708.8	574.	0.278	1420.235	0.609	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	31394.	1.00	30.420	2.99	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC2WNW Perim Zn (B.WNW1)	2236.	0.	0.000	0.348	622.	0.00	0.00	50.70	-96.58	-30.18	1.
SC2NNE Perim Zn (B.NNE2)	2978.	0.	0.000	0.348	829.	0.00	0.00	67.54	-128.64	-40.20	1.
SC2Core Zn (B.C4)	8499.	0.	0.000	0.348	2365.	0.00	0.00	192.77	-367.18	-114.74	1.
SC2SW Perim Zn (B.SW5)	1132.	0.	0.000	0.348	315.	0.00	0.00	25.66	-48.89	-15.28	1.
SC2Core Zn (B.C9)	9951.	0.	0.000	0.348	2769.	0.00	0.00	225.69	-429.89	-134.34	1.
SC2Core Zn (B.C11)	6598.	0.	0.000	0.348	1836.	0.00	0.00	149.64	-285.03	-89.07	1.
SC2WNW Perim Zn (B.WNW6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
SC2Core Zn (B.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for SC1 (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	34393.6	688.	0.278	1665.769	0.609	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	36843.	1.00	35.701	2.99	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC1WNW Perim Zn (B.WNW1)	2236.	0.	0.000	0.348	622.	0.00	0.00	50.70	-60.36	-30.18	1.
SC1NNE Perim Zn (B.NNE2)	2978.	0.	0.000	0.348	829.	0.00	0.00	67.54	-80.40	-40.20	1.
SC1Core Zn (B.C4)	8499.	0.	0.000	0.348	2365.	0.00	0.00	192.77	-229.49	-114.74	1.
SC1SW Perim Zn (B.SW5)	1132.	0.	0.000	0.348	315.	0.00	0.00	25.66	-30.55	-15.28	1.
SC1SSW Perim Zn (B.SSW7)	2338.	0.	0.000	0.348	651.	0.00	0.00	53.03	-63.13	-31.57	1.
SC1ESE Perim Zn (B.ESE8)	3111.	0.	0.000	0.348	866.	0.00	0.00	70.56	-84.00	-42.00	1.
SC1Core Zn (B.C9)	9951.	0.	0.000	0.348	2769.	0.00	0.00	225.69	-268.68	-134.34	1.
SC1Core Zn (B.C11)	6598.	0.	0.000	0.348	1836.	0.00	0.00	149.64	-178.14	-89.07	1.
SC1Core Zn (B.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
SC1WNW Perim Zn (B.WNW6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
SC1Core Zn (B.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for Cellar (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	30278.4	606.	0.198	1955.055	0.618	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	47482.	1.00	46.010	2.99	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
CWNW Perim Zn (B.WNW1)	2430.	0.	0.000	0.320	622.	0.00	0.00	55.11	-65.61	-32.81	1.
CNNE Perim Zn (B.NNE2)	3237.	0.	0.000	0.320	829.	0.00	0.00	73.41	-87.39	-43.70	1.
CCore Zn (B.C4)	9239.	0.	0.000	0.320	2365.	0.00	0.00	209.53	-249.44	-124.72	1.
CSW Perim Zn (B.SW5)	1230.	0.	0.000	0.320	315.	0.00	0.00	27.90	-33.21	-16.61	1.
CSSW Perim Zn (B.SSW7)	2542.	0.	0.000	0.320	651.	0.00	0.00	57.64	-68.62	-34.31	1.
CCore Zn (B.C9)	21633.	0.	0.000	0.160	2769.	0.00	0.00	490.64	-584.09	-292.05	1.
CCore Zn (B.C11)	7172.	0.	0.000	0.320	1836.	0.00	0.00	162.65	-193.63	-96.82	1.
CCore Zn (B.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for Ground (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	66082.3	638.	0.113	2747.173	0.642	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	75076.	1.00	72.749	2.99	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
GNW Perim Zn (G.NW2)	12082.	0.	0.000	0.089	859.	0.00	0.00	274.02	-326.21	-188.11	1.
GNNE Perim Zn (G.NNE3)	2771.	0.	0.000	0.178	394.	0.00	0.00	62.84	-31.25	(BASEBOARDS)	1.
GEast Perim Zn (G.E6)	1376.	0.	0.000	0.267	293.	0.00	0.00	31.20	-74.81	-62.41	1.
GWest Perim Zn (G.W8)	1627.	0.	0.000	0.120	156.	0.00	0.00	36.90	-31.25	(BASEBOARDS)	1.
GSSW Perim Zn (G.SSW9)	1498.	0.	0.000	0.267	320.	0.00	0.00	33.97	-37.15	-43.57	1.
GESE Perim Zn (G.ESE10)	1011.	0.	0.000	0.178	144.	0.00	0.00	22.92	-31.25	(BASEBOARDS)	1.
GSSW Perim Zn (G.SSW12)	4949.	0.	0.000	0.151	599.	0.00	0.00	112.25	-40.44	-45.22	1.
GCore Zn (G.C13)	7074.	0.	0.000	0.178	1006.	0.00	0.00	160.43	-31.25	(BASEBOARDS)	1.
GCore Zn (G.C14)	1744.	0.	0.000	0.133	186.	0.00	0.00	39.54	-47.08	-48.54	1.
GNNE Perim Zn (G.NNE15)	9821.	0.	0.000	0.089	698.	0.00	0.00	222.75	-31.25	(BASEBOARDS)	1.
GCore Zn (G.C16)	19692.	0.	0.000	0.089	1400.	0.00	0.00	446.62	-265.17	-157.59	1.
GCore Zn (G.C17)	11432.	0.	0.000	0.267	2439.	0.00	0.00	259.29	-31.25	(BASEBOARDS)	1.
GNW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-531.69	-290.84	1.
GSSW Perim Zn (G.SSW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	1.
GWest Perim Zn (G.W5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-308.68	-179.34	1.
GNNE Perim Zn (G.NNE7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	1.
GPl Zn (G.18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for 1Mezz (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	33093.9	662.	0.244	1689.508	0.611	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	38701.	1.00	37.501	2.99	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
1MNorth Perim Zn (G.N2)	2526.	0.	0.000	0.333	674.	0.00	0.00	57.30	-68.21	-34.11	1.
1MSW Perim Zn (G.SW3)	1808.	0.	0.000	0.333	482.	0.00	0.00	41.01	-48.82	-24.41	1.
1MSSW Perim Zn (G.SSW5)	2697.	0.	0.000	0.333	719.	0.00	0.00	61.17	-72.83	-36.41	1.
1MNNE Perim Zn (G.NNE6)	2652.	0.	0.000	0.333	707.	0.00	0.00	60.15	-71.61	-35.81	1.
1MESE Perim Zn (G.ESE7)	6492.	0.	0.000	0.167	866.	0.00	0.00	147.23	-175.27	-87.64	1.
1MCore Zn (G.C10)	5304.	0.	0.000	0.333	1415.	0.00	0.00	120.30	-143.22	-71.61	1.
1MCore Zn (G.C11)	17221.	0.	0.000	0.333	4592.	0.00	0.00	390.56	-464.96	-232.48	1.
1MNW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1MSW Perim Zn (G.SW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1MCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for 2 (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	36126.6	723.	0.166	2372.983	0.625	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	59964.	1.00	58.105	2.99	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (G.N2)	3947.	0.	0.000	0.213	674.	0.00	0.00	89.53	-106.58	-78.29	1.
25SSW Perim Zn (G.SSW5)	5689.	0.	0.000	0.154	703.	0.00	0.00	129.03	-31.25	(BASEBOARDS)	1.
25Core Zn (G.C6)	8671.	0.	0.000	0.267	1850.	0.00	0.00	196.65	-153.61	-101.81	1.
25West Perim Zn (G.W7)	1772.	0.	0.000	0.110	156.	0.00	0.00	40.19	-31.25	(BASEBOARDS)	1.
25SSW Perim Zn (G.SSW8)	2247.	0.	0.000	0.178	320.	0.00	0.00	50.96	-234.11	-142.05	1.
25ESE Perim Zn (G.ESE9)	4473.	0.	0.000	0.133	477.	0.00	0.00	101.46	-31.25	(BASEBOARDS)	1.
25ESE Perim Zn (G.ESE10)	2732.	0.	0.000	0.178	389.	0.00	0.00	61.96	-47.84	-48.92	1.
25NNE Perim Zn (G.NNE11)	4894.	0.	0.000	0.133	522.	0.00	0.00	110.99	-31.25	(BASEBOARDS)	1.
25NNE Perim Zn (G.NNE12)	1737.	0.	0.000	0.133	185.	0.00	0.00	39.40	-60.67	-55.33	1.
25Core Zn (G.C15)	14022.	0.	0.000	0.267	2991.	0.00	0.00	318.03	-31.25	(BASEBOARDS)	1.
25Core Zn (G.C16)	9779.	0.	0.000	0.213	1669.	0.00	0.00	221.79	-120.78	-85.39	1.
25NW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	1.
25SSW Perim Zn (G.SSW3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-264.03	-157.02	1.
25West Perim Zn (G.W4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	1.
25Core Zn (G.C13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (G.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for 3-4 (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	72253.2	1445.	0.115	6340.939	0.641	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	172952.	1.00	167.591	2.99	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (M.N18)	4737.	0.	0.000	0.178	674.	0.00	0.00	107.43	-127.89	-88.95	2.
25SSW Perim Zn (M.SSW21)	7583.	0.	0.000	0.116	703.	0.00	0.00	171.98	-31.25	(BASEBOARDS)	2.
25Core Zn (M.C22)	17341.	0.	0.000	0.133	1850.	0.00	0.00	393.30	-204.74	-127.37	2.
25West Perim Zn (M.W23)	2273.	0.	0.000	0.086	156.	0.00	0.00	51.55	-31.25	(BASEBOARDS)	2.
25SSW Perim Zn (M.SSW24)	2247.	0.	0.000	0.178	320.	0.00	0.00	50.96	-468.21	-259.11	2.
25ESE Perim Zn (M.ESE25)	4473.	0.	0.000	0.133	477.	0.00	0.00	101.46	-31.25	(BASEBOARDS)	2.
25ESE Perim Zn (M.ESE26)	3643.	0.	0.000	0.133	389.	0.00	0.00	82.62	-61.37	-55.68	2.
25NNE Perim Zn (M.NNE27)	4894.	0.	0.000	0.133	522.	0.00	0.00	110.99	-60.67	-55.33	2.
25NNE Perim Zn (M.NNE28)	2606.	0.	0.000	0.089	185.	0.00	0.00	59.09	-31.25	(BASEBOARDS)	2.
25Core Zn (M.C31)	21034.	0.	0.000	0.178	2991.	0.00	0.00	477.04	-120.78	-85.39	2.
25Core Zn (M.C32)	15646.	0.	0.000	0.133	1669.	0.00	0.00	354.86	-31.25	(BASEBOARDS)	2.
25NW Perim Zn (M.NW17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-98.35	-74.18	2.
25SSW Perim Zn (M.SSW19)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	2.
25West Perim Zn (M.W20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-132.13	-91.07	2.
25Core Zn (M.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-70.35	-60.17	2.
25Core Zn (M.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	2.

REPORT- SV-A System Design Parameters for 5 (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	36126.6	723.	0.157	2329.636	0.645	0.000	0.220	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	63153.	1.00	32.903	1.61	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (T.N34)	4737.	0.	0.000	0.178	674.	0.00	0.00	107.43	-127.89	-88.95	1.
25SSW Perim Zn (T.SSW37)	8785.	0.	0.000	0.100	703.	0.00	0.00	199.25	-31.25	(BASEBOARDS)	1.
25Core Zn (T.C38)	8671.	0.	0.000	0.267	1850.	0.00	0.00	196.65	-237.20	-143.60	1.
25West Perim Zn (T.W39)	2287.	0.	0.000	0.085	156.	0.00	0.00	51.88	-31.25	(BASEBOARDS)	1.
25SSW Perim Zn (T.SSW40)	1498.	0.	0.000	0.267	320.	0.00	0.00	33.97	-234.11	-142.05	1.
25ESE Perim Zn (T.ESE41)	3355.	0.	0.000	0.178	477.	0.00	0.00	76.09	-31.25	(BASEBOARDS)	1.
25ESE Perim Zn (T.ESE42)	3643.	0.	0.000	0.133	389.	0.00	0.00	82.62	-61.76	-55.88	1.
25NNE Perim Zn (T.NNE43)	4638.	0.	0.000	0.141	522.	0.00	0.00	105.20	-31.25	(BASEBOARDS)	1.
25NNE Perim Zn (T.NNE44)	1737.	0.	0.000	0.133	185.	0.00	0.00	39.40	-40.44	-45.22	1.
25Core Zn (T.C47)	14022.	0.	0.000	0.267	2991.	0.00	0.00	318.03	-31.25	(BASEBOARDS)	1.
25Core Zn (T.C48)	9779.	0.	0.000	0.213	1669.	0.00	0.00	221.79	-90.59	-70.29	1.
25NW Perim Zn (T.NW33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	1.
25SSW Perim Zn (T.SSW35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-98.35	-74.18	1.
25West Perim Zn (T.W36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-125.23	-87.62	1.
25Core Zn (T.C45)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-31.25	(BASEBOARDS)	1.
25Core Zn (T.C46)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-46.90	-48.45	1.

REPORT- SV-A System Design Parameters for HP Low Res

WEATHER FILE- New York CityNY TMY2

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP			
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT			
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)			
HP	1.000	383537.8	271.	0.000	0.000	0.000	0.000	0.302	0.356	0.000			
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN		
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO		
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)		
SUPPLY	193996.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00		
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
1519WNW Perim Zn (G.WNW6)			1432.	0.	0.384	1.000	0.	44.10	0.71	32.05	-37.46	-63.53	3.
1519NNE Perim Zn (G.NNE7)			4566.	0.	1.224	1.000	0.	140.65	0.71	102.22	-119.47	-147.87	3.
1519East Perim Zn (G.E8)			1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-29.68	-55.52	3.
1519ESE Perim Zn (G.ESE9)			981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.68	-51.41	3.
1519South Perim Zn (G.S10)			576.	0.	0.154	1.000	0.	17.75	0.71	13.07	-15.08	-40.51	3.
1519SSE Perim Zn (G.SSE11)			2211.	0.	0.592	1.000	0.	68.11	0.71	49.50	-57.85	-84.50	3.
1519WNW Perim Zn (M.WNW20)			1432.	0.	0.384	1.000	0.	44.10	0.71	32.05	-37.46	-63.53	5.
1519NNE Perim Zn (M.NNE21)			4566.	0.	1.224	1.000	0.	140.65	0.71	102.22	-119.47	-147.87	5.
1519East Perim Zn (M.E22)			1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-29.68	-55.52	5.
1519ESE Perim Zn (M.ESE23)			981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.68	-51.41	5.
1519South Perim Zn (M.S24)			610.	0.	0.164	1.000	0.	18.80	0.71	13.84	-15.97	-41.43	5.
1519SSE Perim Zn (M.SSE25)			2211.	0.	0.592	1.000	0.	68.11	0.71	49.50	-57.85	-84.50	5.
1519West Perim Zn (M.W26)			1565.	0.	0.419	1.000	0.	48.20	0.71	35.03	-40.94	-67.10	5.
1519WNW Perim Zn (M.WNW27)			1220.	0.	0.327	1.000	0.	37.58	0.72	27.31	-31.92	-57.83	5.
1519WNW Perim Zn (T.WNW34)			1432.	0.	0.384	1.000	0.	44.10	0.71	32.05	-37.46	-63.53	1.
1519NNE Perim Zn (T.NNE35)			4566.	0.	1.224	1.000	0.	140.65	0.71	102.22	-119.47	-147.87	1.
1519East Perim Zn (T.E36)			1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-29.68	-55.52	1.
1519ESE Perim Zn (T.ESE37)			981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.68	-51.41	1.
1519South Perim Zn (T.S38)			669.	0.	0.179	1.000	0.	20.62	0.71	15.18	-17.52	-43.02	1.
1519SSE Perim Zn (T.SSE39)			2211.	0.	0.592	1.000	0.	68.11	0.71	49.50	-57.85	-84.50	1.
1519West Perim Zn (T.W40)			1565.	0.	0.419	1.000	0.	48.20	0.71	35.03	-40.94	-67.10	1.

1519WNW Perim Zn (T.WNW41)		1220.	0.	0.304	1.000	0.	34.94	0.71	25.39	-25.00	(BASEBOARDS)	1.
2026East Perim Zn (G.E6)		1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-29.68	-55.52	1.
2026WNW Perim Zn (G.WNW7)		1432.	0.	0.384	1.000	0.	44.10	0.71	32.05	-37.46	-63.53	1.
2026NNE Perim Zn (G.NNE8)		4566.	0.	1.224	1.000	0.	140.65	0.71	102.22	-119.47	-147.87	1.
2026WNW Perim Zn (G.WNW9)		1220.	0.	0.327	1.000	0.	37.58	0.71	27.31	-31.92	-57.83	1.
2026ESE Perim Zn (G.ESE10)		981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.68	-51.41	1.
2026SW Perim Zn (G.SW11)		615.	0.	0.165	1.000	0.	18.95	0.71	13.95	-16.10	-41.56	1.
2026SSW Perim Zn (G.SSW12)		798.	0.	0.214	1.000	0.	24.59	0.71	17.87	-20.89	-46.48	1.
2026South Perim Zn (G.S13)		575.	0.	0.154	1.000	0.	17.70	0.71	13.03	-15.03	-40.46	1.
2026East Perim Zn (M.E20)		1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-29.68	-55.52	5.
2026WNW Perim Zn (M.WNW21)		1432.	0.	0.384	1.000	0.	44.10	0.71	32.05	-37.46	-63.53	5.
2026NNE Perim Zn (M.NNE22)		4566.	0.	1.224	1.000	0.	140.65	0.71	102.22	-119.47	-147.87	5.
2026WNW Perim Zn (M.WNW23)		1220.	0.	0.327	1.000	0.	37.58	0.71	27.31	-31.92	-57.83	5.
2026ESE Perim Zn (M.ESE24)		981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.68	-51.41	5.
2026SW Perim Zn (M.SW25)		574.	0.	0.154	1.000	0.	17.69	0.71	13.02	-15.02	-40.45	5.
2026SSW Perim Zn (M.SSW26)		798.	0.	0.214	1.000	0.	24.59	0.71	17.87	-20.89	-46.48	5.
2026South Perim Zn (M.S27)		515.	0.	0.138	1.000	0.	15.88	0.71	11.69	-13.48	-38.87	5.
2026East Perim Zn (T.E34)		1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-29.68	-55.52	1.
2026WNW Perim Zn (T.WNW35)		1432.	0.	0.384	1.000	0.	44.10	0.70	32.05	-37.46	-63.53	1.
2026NNE Perim Zn (T.NNE36)		4566.	0.	1.224	1.000	0.	140.65	0.71	102.22	-119.47	-147.87	1.
2026WNW Perim Zn (T.WNW37)		1220.	0.	0.327	1.000	0.	37.58	0.72	27.31	-31.92	-57.83	1.

REPORT- SV-A System Design Parameters for			HP Low Res				WEATHER FILE- New York CityNY TMY2				
(CONTINUED)											
2026ESE Perim Zn (T.ESE38	981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.68	-51.41	1.
									-25.00	(BASEBOARDS)	
2026SW Perim Zn (T.SW39)	723.	0.	0.194	1.000	0.	22.29	0.71	16.41	-18.93	-44.47	1.
									-25.00	(BASEBOARDS)	
2026SSW Perim Zn (T.SSW40	798.	0.	0.214	1.000	0.	24.59	0.71	17.87	-20.89	-46.48	1.
									-25.00	(BASEBOARDS)	
2026South Perim Zn (T.S41	653.	0.	0.175	1.000	0.	20.10	0.71	14.80	-17.08	-42.56	1.
									-25.00	(BASEBOARDS)	
1519Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519West Perim Zn (G.W12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519WNW Perim Zn (G.WNW13	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Pl Zn (G.14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Pl Zn (M.28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Pl Zn (T.42)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Pl Zn (G.14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Pl Zn (M.28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Pl Zn (T.42)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for HP Low-Mid Res

WEATHER FILE- New York CityNY TMY2

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP		
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT		
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)		
HP	1.000	303446.3	169.	0.000	0.000	0.000	0.000	0.302	0.356	0.000		
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)	
SUPPLY	157869.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00	
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
28NNW Perim Zn (G.NNW5)		1649.	0.	0.442	1.000	0.	50.80	0.71	36.92	-43.15	-69.38	1.
28NNE Perim Zn (G.NNE6)		1654.	0.	0.443	1.000	0.	50.94	0.71	37.02	-25.00 (BASEBOARDS)	-43.27	1.
28East Perim Zn (G.E7)		1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-25.00 (BASEBOARDS)	-29.68	1.
28ESE Perim Zn (G.ESE8)		981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.00 (BASEBOARDS)	-25.68	1.
28South Perim Zn (G.S9)		544.	0.	0.146	1.000	0.	16.77	0.71	12.35	-25.00 (BASEBOARDS)	-14.24	1.
28SSW Perim Zn (G.SSW10)		668.	0.	0.179	1.000	0.	20.59	0.71	14.96	-25.00 (BASEBOARDS)	-17.49	1.
28SW Perim Zn (G.SW11)		666.	0.	0.179	1.000	0.	20.53	0.71	14.92	-25.00 (BASEBOARDS)	-17.44	1.
28WNW Perim Zn (G.WNW12)		1427.	0.	0.382	1.000	0.	43.96	0.71	31.95	-25.00 (BASEBOARDS)	-37.34	1.
2936NNW Perim Zn (M.NNW18)		1649.	0.	0.442	1.000	0.	50.80	0.71	36.92	-25.00 (BASEBOARDS)	-43.15	8.
2936NNE Perim Zn (M.NNE19)		1654.	0.	0.443	1.000	0.	50.94	0.71	37.02	-25.00 (BASEBOARDS)	-43.27	8.
2936East Perim Zn (M.E20)		1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-25.00 (BASEBOARDS)	-29.68	8.
2936ESE Perim Zn (M.ESE21)		981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.00 (BASEBOARDS)	-25.68	8.
2936South Perim Zn (M.S22)		577.	0.	0.155	1.000	0.	17.77	0.71	13.08	-25.00 (BASEBOARDS)	-15.09	8.
2936SSW Perim Zn (M.SSW23)		668.	0.	0.179	1.000	0.	20.59	0.71	14.96	-25.00 (BASEBOARDS)	-17.49	8.
2936SW Perim Zn (M.SW24)		678.	0.	0.182	1.000	0.	20.90	0.71	15.38	-25.00 (BASEBOARDS)	-17.75	8.
2936WNW Perim Zn (M.WNW25)		1427.	0.	0.382	1.000	0.	43.96	0.71	31.95	-25.00 (BASEBOARDS)	-37.34	8.
3744NNW Perim Zn (M.NNW18)		1649.	0.	0.442	1.000	0.	50.80	0.71	36.92	-25.00 (BASEBOARDS)	-43.15	8.
3744NNE Perim Zn (M.NNE19)		1654.	0.	0.443	1.000	0.	50.94	0.71	37.02	-25.00 (BASEBOARDS)	-43.27	8.
3744East Perim Zn (M.E20)		1134.	0.	0.304	1.000	0.	34.94	0.71	25.39	-25.00 (BASEBOARDS)	-29.68	8.
3744ESE Perim Zn (M.ESE21)		981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.00 (BASEBOARDS)	-25.68	8.
3744South Perim Zn (M.S22)		577.	0.	0.155	1.000	0.	17.77	0.71	13.08	-25.00 (BASEBOARDS)	-15.09	8.

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REPORT- SV-A System Design Parameters for	HP Low-Mid Res	WEATHER FILE- New York CityNY TMY2									
(CONTINUED)											
3744Core Zn (M.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
45Core Zn (T.C27)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Core Zn (T.C28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Pl Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for HP Upp-Mid Res

WEATHER FILE- New York CityNY TMY2

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT		
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)		
HP	1.000	317636.8	174.	0.000	0.000	0.000	0.000	0.302	0.356	0.000		
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)	
SUPPLY	164047.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00	
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
47NNW Perim Zn (G.NNW1)		1338.	0.	0.359	1.000	0.	41.22	0.71	29.96	-35.02	-61.01	1.
47West Perim Zn (G.W2)		1641.	0.	0.440	1.000	0.	50.54	0.71	36.73	-25.00	(BASEBOARDS)	
47SW Perim Zn (G.SW3)		519.	0.	0.139	1.000	0.	15.99	0.71	11.77	-42.93	-69.15	1.
47SSW Perim Zn (G.SSW4)		852.	0.	0.228	1.000	0.	26.26	0.71	19.09	-25.00	(BASEBOARDS)	
47SSE Perim Zn (G.SSE5)		592.	0.	0.159	1.000	0.	18.24	0.71	13.43	-13.59	-38.97	1.
47ESE Perim Zn (G.ESE6)		981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.00	(BASEBOARDS)	
47ENE Perim Zn (G.ENE7)		740.	0.	0.198	1.000	0.	22.80	0.71	16.57	-15.49	-40.93	1.
47NE Perim Zn (G.NE8)		1392.	0.	0.373	1.000	0.	42.90	0.71	31.18	-25.00	(BASEBOARDS)	
47Core Zn (G.C12)		654.	0.	0.175	1.000	0.	20.15	0.71	14.65	-19.36	-44.92	1.
4856NNW Perim Zn (M.NNW14)		1338.	0.	0.359	1.000	0.	41.22	0.71	29.96	-25.00	(BASEBOARDS)	
4856West Perim Zn (M.W15)		1641.	0.	0.440	1.000	0.	50.54	0.71	36.73	-35.02	-61.01	9.
4856SW Perim Zn (M.SW16)		577.	0.	0.155	1.000	0.	17.78	0.71	13.09	-42.93	-69.15	9.
4856SSW Perim Zn (M.SSW17)		852.	0.	0.228	1.000	0.	26.26	0.71	19.09	-25.00	(BASEBOARDS)	
4856SSE Perim Zn (M.SSE18)		650.	0.	0.174	1.000	0.	20.02	0.71	14.74	-15.10	-40.53	9.
4856ESE Perim Zn (M.ESE19)		981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.00	(BASEBOARDS)	
4856ENE Perim Zn (M.ENE20)		740.	0.	0.198	1.000	0.	22.80	0.71	16.57	-25.00	(BASEBOARDS)	
4856NE Perim Zn (M.NE21)		1392.	0.	0.373	1.000	0.	42.90	0.71	31.18	-19.36	-44.92	9.
5765NNW Perim Zn (M.NNW14)		1338.	0.	0.359	1.000	0.	41.22	0.71	29.96	-36.44	-62.47	9.
5765West Perim Zn (M.W15)		1641.	0.	0.440	1.000	0.	50.54	0.71	36.73	-25.00	(BASEBOARDS)	
5765SW Perim Zn (M.SW16)		579.	0.	0.155	1.000	0.	17.85	0.71	13.14	-25.00	(BASEBOARDS)	
5765SSW Perim Zn (M.SSW17)		852.	0.	0.228	1.000	0.	26.26	0.71	19.09	-17.01	-42.49	9.
										-25.00	(BASEBOARDS)	

5765SSE Perim Zn (M.SSE18)	650.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.00	9.
5765ESE Perim Zn (M.ESE19)	981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-25.68	9.
5765ENE Perim Zn (M.ENE20)	740.	0.	0.198	1.000	0.	22.80	0.71	16.57	-25.00	9.
5765NE Perim Zn (M.NE21)	1392.	0.	0.373	1.000	0.	42.90	0.71	31.18	-19.36	9.
66NNW Perim Zn (T.NNW27)	1338.	0.	0.359	1.000	0.	41.22	0.71	29.96	-25.00	9.
66West Perim Zn (T.W28)	1641.	0.	0.440	1.000	0.	50.54	0.71	36.73	-36.44	9.
66SW Perim Zn (T.SW29)	601.	0.	0.161	1.000	0.	18.52	0.71	13.63	-25.00	9.
66SSW Perim Zn (T.SSW30)	852.	0.	0.228	1.000	0.	26.26	0.71	19.09	-35.02	1.
66SSE Perim Zn (T.SSE31)	672.	0.	0.180	1.000	0.	20.71	0.71	15.25	-25.00	1.
66ESE Perim Zn (T.ESE32)	981.	0.	0.263	1.000	0.	30.23	0.71	21.97	-42.93	1.
66ENE Perim Zn (T.ENE33)	740.	0.	0.198	1.000	0.	22.80	0.71	16.57	-25.00	1.
66NE Perim Zn (T.NE34)	1392.	0.	0.373	1.000	0.	42.90	0.71	31.18	-19.36	1.
47Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-25.00	1.
47Core Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	1.
47Core Zn (G.C11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	1.
47P1 Zn (G.13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	1.
4856Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.
4856Core Zn (M.C23)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.
4856Core Zn (M.C24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.

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REPORT- SV-A System Design Parameters for	HP Upp-Mid Res	WEATHER FILE- New York CityNY TMY2								
(CONTINUED)										
4856Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.
5765Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.
5765Core Zn (M.C23)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.
5765Core Zn (M.C24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.
5765Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	9.
66Core Zn (T.C35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	1.
66Core Zn (T.C36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	1.
66Core Zn (T.C37)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	1.
66Pl Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for HP Upper Res

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
HP	1.000	336974.5	152.	0.000	0.000	0.000	0.000	0.302	0.356	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	178491.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
68NNW Perim Zn (G.NNW1)	1193.	0.	0.320	1.000	0.	36.76	0.71	27.06	-31.23	-57.11	1.
68NE Perim Zn (G.NE2)	1469.	0.	0.394	1.000	0.	45.27	0.71	32.90	-25.00	(BASEBOARDS)	1.
68ESE Perim Zn (G.ESE3)	434.	0.	0.116	1.000	0.	13.39	0.70	9.85	-38.45	-64.54	1.
68West Perim Zn (G.W4)	1554.	0.	0.417	1.000	0.	47.89	0.71	34.80	-25.00	(BASEBOARDS)	1.
68SW Perim Zn (G.SW5)	572.	0.	0.153	1.000	0.	17.61	0.71	12.97	-11.38	-36.69	1.
68South Perim Zn (G.S6)	852.	0.	0.228	1.000	0.	26.26	0.71	19.09	-25.00	(BASEBOARDS)	1.
68ESE Perim Zn (G.ESE9)	298.	0.	0.080	1.000	0.	9.23	0.70	6.67	-40.68	-66.83	1.
68DBWNW Perim Zn (G.WNW1)	4888.	0.	1.310	1.000	0.	150.59	0.71	110.86	-25.00	(BASEBOARDS)	1.
69NNW Perim Zn (G.NNW1)	1196.	0.	0.321	1.000	0.	36.86	0.71	27.14	-22.31	-47.94	1.
69NE Perim Zn (G.NE2)	1469.	0.	0.394	1.000	0.	45.27	0.71	32.90	-25.00	(BASEBOARDS)	1.
69ESE Perim Zn (G.ESE3)	435.	0.	0.117	1.000	0.	13.41	0.70	9.86	-38.45	-64.54	1.
69West Perim Zn (G.W4)	1554.	0.	0.417	1.000	0.	47.89	0.71	34.80	-25.00	(BASEBOARDS)	1.
69SW Perim Zn (G.SW5)	567.	0.	0.152	1.000	0.	17.48	0.71	12.87	-11.39	-36.70	1.
69South Perim Zn (G.S6)	852.	0.	0.228	1.000	0.	26.26	0.71	19.09	-25.00	(BASEBOARDS)	1.
70NNW Perim Zn (G.NNW1)	1170.	0.	0.314	1.000	0.	36.04	0.71	26.19	-22.31	-47.94	1.
70West Perim Zn (G.W2)	1520.	0.	0.407	1.000	0.	46.83	0.71	34.03	-25.00	(BASEBOARDS)	1.
70SW Perim Zn (G.SW3)	449.	0.	0.120	1.000	0.	13.83	0.71	10.05	-39.78	-65.91	1.
70South Perim Zn (G.S4)	1061.	0.	0.284	1.000	0.	32.68	0.71	23.75	-25.00	(BASEBOARDS)	1.
70NE Perim Zn (G.NE5)	589.	0.	0.158	1.000	0.	18.15	0.71	13.19	-27.76	-53.55	1.
70ENE Perim Zn (G.ENE6)	1593.	0.	0.427	1.000	0.	49.09	0.71	35.68	-25.00	(BASEBOARDS)	1.
70SE Perim Zn (G.SE7)	990.	0.	0.265	1.000	0.	30.49	0.71	22.16	-41.70	-67.88	1.
									-25.00	(BASEBOARDS)	1.
									-25.90	-51.64	1.
									-25.00	(BASEBOARDS)	1.

70Core Zn (G.C8)	212.	0.	0.314	1.000	0.	36.04	0.71	26.19	-25.00	(BASEBOARDS)	1.
7179NNW Perim Zn (M.NNW13)	1170.	0.	0.314	1.000	0.	36.04	0.71	26.19	-30.61	-56.48	9.
7179West Perim Zn (M.W14)	1520.	0.	0.407	1.000	0.	46.83	0.71	34.03	-25.00	(BASEBOARDS)	9.
7179SW Perim Zn (M.SW15)	496.	0.	0.133	1.000	0.	15.29	0.71	11.25	-39.78	-65.91	9.
7179South Perim Zn (M.S16)	1061.	0.	0.284	1.000	0.	32.68	0.71	23.75	-25.00	(BASEBOARDS)	9.
7179NE Perim Zn (M.NE17)	589.	0.	0.158	1.000	0.	18.15	0.71	13.19	-12.99	-38.35	9.
7179ENE Perim Zn (M.ENE18)	1593.	0.	0.427	1.000	0.	49.09	0.71	35.68	-25.00	(BASEBOARDS)	9.
7179SE Perim Zn (M.SE19)	990.	0.	0.265	1.000	0.	30.49	0.71	22.16	-27.76	-53.55	9.
8087NNW Perim Zn (M.NNW13)	1178.	0.	0.316	1.000	0.	36.30	0.71	26.73	-25.00	(BASEBOARDS)	8.
8087West Perim Zn (M.W14)	1520.	0.	0.407	1.000	0.	46.83	0.71	34.03	-41.70	-67.88	9.
8087SW Perim Zn (M.SW15)	498.	0.	0.134	1.000	0.	15.35	0.71	11.30	-25.00	(BASEBOARDS)	8.
8087South Perim Zn (M.S16)	1061.	0.	0.284	1.000	0.	32.68	0.71	23.75	-39.78	-65.91	8.
8087NE Perim Zn (M.NE17)	589.	0.	0.158	1.000	0.	18.15	0.71	13.19	-25.00	(BASEBOARDS)	8.
8087ENE Perim Zn (M.ENE18)	1593.	0.	0.427	1.000	0.	49.09	0.71	35.68	-13.04	-38.41	8.
8087SE Perim Zn (M.SE19)	990.	0.	0.265	1.000	0.	30.49	0.71	22.16	-25.00	(BASEBOARDS)	8.
88NNW Perim Zn (T.NNW25)	1175.	0.	0.315	1.000	0.	36.21	0.71	26.66	-25.00	(BASEBOARDS)	1.
88West Perim Zn (T.W26)	1520.	0.	0.407	1.000	0.	46.83	0.71	34.03	-30.76	-56.63	1.
88SW Perim Zn (T.SW27)	518.	0.	0.139	1.000	0.	15.95	0.71	11.74	-25.00	(BASEBOARDS)	1.
88South Perim Zn (T.S28)	1061.	0.	0.284	1.000	0.	32.68	0.71	23.75	-39.78	-65.91	1.
88NE Perim Zn (T.NE29)	589.	0.	0.158	1.000	0.	18.15	0.71	13.19	-25.00	(BASEBOARDS)	1.
88ENE Perim Zn (T.ENE30)	1593.	0.	0.427	1.000	0.	49.09	0.71	35.68	-15.41	-40.85	1.
									-25.00	(BASEBOARDS)	1.

REPORT- SV-A System Design Parameters for	HP Upper Res						WEATHER FILE- New York CityNY TMY2					
(CONTINUED)												
88SE Perim Zn (T.SE31)	990.	0.	0.265	1.000	0.	30.49	0.71	22.16	-25.90	-51.64	1.	
									-25.00	(BASEBOARDS)		
89NNW Perim Zn (G.NNW1)	1204.	0.	0.323	1.000	0.	37.09	0.71	27.30	-31.50	-57.40	2.	
									-25.00	(BASEBOARDS)		
89NE Perim Zn (G.NE2)	589.	0.	0.158	1.000	0.	18.15	0.71	13.19	-15.41	-40.85	2.	
									-25.00	(BASEBOARDS)		
89ESE Perim Zn (G.ESE3)	825.	0.	0.221	1.000	0.	25.40	0.71	18.46	-21.58	-47.19	2.	
									-25.00	(BASEBOARDS)		
89West Perim Zn (G.W4)	1607.	0.	0.431	1.000	0.	49.51	0.71	35.98	-42.05	-68.25	2.	
									-25.00	(BASEBOARDS)		
89SW Perim Zn (G.SW5)	568.	0.	0.152	1.000	0.	17.49	0.71	12.87	-14.85	-40.28	2.	
									-25.00	(BASEBOARDS)		
89South Perim Zn (G.S6)	1153.	0.	0.309	1.000	0.	35.52	0.71	25.81	-30.17	-56.03	2.	
									-25.00	(BASEBOARDS)		
89DBWNW Perim Zn (G.WNW1)	4010.	0.	1.075	1.000	0.	123.55	0.71	90.95	-104.94	-132.92	2.	
									-25.00	(BASEBOARDS)		
68Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
68Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
68Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
68DBPl Zn (G.2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
69Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
69Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
69ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
69Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
70Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
70Core Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
70Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
7179Core Zn (M.C20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.	
7179Core Zn (M.C21)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.	
7179Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.	
7179Pl Zn (M.24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.	
8087Core Zn (M.C20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.	
8087Core Zn (M.C21)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.	
8087Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.	
8087Pl Zn (M.24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.	
88Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
88Core Zn (T.C33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
88Core Zn (T.C34)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
88Pl Zn (T.36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
89Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.	
89Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.	
89ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.	
89Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.	
89DBPl Zn (G.2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.	

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 ES602430455 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-SC3-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	311.1	1.	0.700	23.682	0.660	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	551.	1.00	0.172	0.96	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3ESE Perim Zn (B.ESE7)	551.	0.	0.000	0.226	385.	0.00	0.00	12.49	-11.89	-7.43	1.

REPORT- SV-A System Design Parameters for AC-SC3-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
VAVS	1.000	483.5	2.	0.001	51.369	0.754	0.000	0.000	0.000	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	1613.	1.00	0.571	1.09	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3Core Zn (B.C6)	1613.		0.	0.000	0.120	0.	0.00	0.00	36.58	-34.84	-21.78	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES936002360 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-SC3-3

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	396.9	2.	0.700	23.727	0.660	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	552.	1.00	0.172	0.96	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3Core Zn (B.C3)	241.	0.	0.000	0.288	168.	0.00	0.00	5.46	-5.20	-3.25	1.
SC3Core Zn (B.C5)	311.	0.	0.000	0.288	218.	0.00	0.00	7.05	-6.72	-4.20	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES450052751 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-SC3-4

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	15940.2	64.	0.790	199.000	0.656	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	4539.	1.00	1.697	1.16	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3SSW Perim Zn (B.SSW2)	4439.	0.	0.000	0.711	3507.	0.00	0.00	100.68	-136.37	-85.23	1.
SC3Core Zn (B.C4)	100.	0.	0.000	0.711	79.	0.00	0.00	2.26	-3.06	-1.91	1.
SC3North Perim Zn (B.N1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES365074534 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-SC2-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	946.4	19.	0.540	34.402	0.664	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	802.	1.00	0.336	1.29	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC2Core Zn (B.C3)	802.	0.	0.000	0.472	433.	0.00	0.00	18.19	-17.32	-10.83	1.

Extell 221 West 57th St



DEPT OF BLDGS121328205

Job Number



ES024696900

Scan Code N 1

REPORT- SV-A System Design Parameters for AC-SC2-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	4738.5	95.	0.880	176.302	0.656	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	4016.	1.00	1.213	0.93	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC2SSW Perim Zn (B.SSW7)	1723.	0.	0.000	0.472	1516.	0.00	0.00	39.08	-37.22	-23.26	1.
SC2ESE Perim Zn (B.ESE8)	2293.	0.	0.000	0.472	2018.	0.00	0.00	52.00	-49.52	-30.95	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES155058869 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-C-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	2705.3	54.	0.250	124.645	0.667	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	3003.	1.00	1.904	1.96	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
CESE Perim Zn (B.ESE8)	3003.	0.	0.000	0.360	751.	0.00	0.00	68.10	-64.86	-40.54	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES863709254 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-C-2 & AC-C-3

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	1410.0	28.	1.000	39.034	0.651	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	880.	1.00	0.275	0.96	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
CCore Zn (B.C10)	880.	0.	0.000	1.000	880.	0.00	0.00	19.96	-38.02	-23.76	1.
CWNW Perim Zn (B.WNW6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

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 DEPT OF BLDGS121328205 Job Number



 ES027783404 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-1-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	5336.8	107.	1.000	336.745	0.638	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	7000.	1.00	7.924	3.50	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
GESE Perim Zn (G.ESE11)	2647.	0.	0.000	1.000	2647.	0.00	0.00	60.03	-114.35	-71.47	1.
1MCore Zn (G.C8)	4353.	0.	0.000	1.000	4353.	0.00	0.00	98.73	-188.05	-117.53	1.

REPORT- SV-A System Design Parameters for AC-6-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	70592.2	35.	0.000	404.706	0.739	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	12274.	1.00	5.941	1.50	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCCore Zn (G.C10)	4528.	0.	0.000	0.335	0.	0.00	0.00	102.69	-97.80	-61.12	1.
6MCCore Zn (G.C8)	7747.	0.	0.000	0.252	0.	0.00	0.00	175.69	-167.33	-104.58	1.
6MCP1 Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Thermal Zone 555	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES424843745 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-6-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	2836.6	11.	0.750	50.279	0.655	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1135.	1.00	0.549	1.50	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCWSW Perim Zn (G.WSW1)	1135.	0.	0.000	1.000	851.	0.00	0.00	25.73	-49.02	-30.64	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES603370581 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-7-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	2055.5	8.	0.990	44.530	0.648	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	987.	1.00	0.478	1.50	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNorth Perim Zn (G.N2)	987.	0.	0.000	0.833	977.	0.00	0.00	22.38	-35.52	-22.20	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES505852604 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-7-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	801.8	3.	1.000	42.771	0.650	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	960.	1.00	0.340	1.09	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNW Perim Zn (G.NW3)	960.	0.	0.000	1.000	960.	0.00	0.00	21.77	-41.47	-25.92	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES083423464 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-7-3

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	1936.7	8.	0.001	38.917	0.718	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1107.	1.00	0.404	1.13	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCSSW Perim Zn (G.SSW6)	1107.	0.	0.000	0.700	0.	0.00	0.00	25.11	-33.47	-20.92	1.

REPORT- SV-A System Design Parameters for AC-7-4

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	17861.5	103.	1.000	720.733	0.638	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	15000.	1.00	16.785	3.46	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCCore Zn (G.C7)	9226.	0.	0.000	1.000	9226.	0.00	0.00	209.24	-398.55	-249.09	1.
8AWSW Perim Zn (G.WSW2)	3689.	0.	0.000	1.000	3689.	0.00	0.00	83.66	-159.35	-99.59	1.
8ACore Zn (G.C4)	530.	0.	0.000	1.000	530.	0.00	0.00	12.03	-22.91	-14.32	1.
8ANNE Perim Zn (G.NNE5)	334.	0.	0.000	1.000	334.	0.00	0.00	7.57	-14.42	-9.01	1.
8ANNE Perim Zn (G.NNE7)	233.	0.	0.000	1.000	233.	0.00	0.00	5.27	-10.05	-6.28	1.
8ASW Perim Zn (G.SW9)	563.	0.	0.000	1.000	563.	0.00	0.00	12.77	-24.32	-15.20	1.
8AESE Perim Zn (G.ESE12)	426.	0.	0.000	1.000	426.	0.00	0.00	9.67	-18.41	-11.51	1.
6MC New Zn	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ANW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ANNE Perim Zn (G.NNE3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ACore Zn (G.C6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ACore Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8AWSW Perim Zn (G.WSW10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ASSW Perim Zn (G.SSW11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for AC-7-5

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	36307.3	145.	1.000	634.535	0.636	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	13000.	1.00	16.783	3.99	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNNE Perim Zn (G.NNE4)	2539.	0.	0.000	1.000	2539.	0.00	0.00	57.59	-109.70	-68.56	1.
10ASSW Perim Zn (G.SSW2)	155.	0.	0.000	1.000	155.	0.00	0.00	3.52	-6.70	-4.19	1.
10AESE Perim Zn (G.ESE4)	1313.	0.	0.000	1.000	1313.	0.00	0.00	29.78	-56.73	-35.45	1.
10ASSW Perim Zn (G.SSW7)	7270.	0.	0.000	1.000	7270.	0.00	0.00	164.88	-314.06	-196.28	1.
10AENE Perim Zn (G.ENE9)	1723.	0.	0.000	1.000	1723.	0.00	0.00	39.07	-74.42	-46.51	1.
6MCESE Perim Zn (G.ESE5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AWNw Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10ACore Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10ACore Zn (G.C5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AESE Perim Zn (G.ESE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AP1 Zn (G.10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MWNw Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MSSW Perim Zn (G.SSW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MCore Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MESE Perim Zn (G.ESE4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MCore Zn (G.C5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MESE Perim Zn (G.ESE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MSSW Perim Zn (G.SSW7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MNorth Perim Zn (G.N8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MENE Perim Zn (G.ENE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
6MCCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for AC-9-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	17378.2	68.	0.001	39.964	0.734	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1193.	1.00	0.435	1.13	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
8MCNNE Perim Zn (G.NNE1)	1193.	0.	0.000	0.237	0.	0.00	0.00	27.06	-25.77	-16.11	1.
8MCSSW Perim Zn (G.SSW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCNNE Perim Zn (G.NNE1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCWNW Perim Zn (G.WNW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCSW Perim Zn (G.SW3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCSSW Perim Zn (G.SSW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCWSW Perim Zn (G.WSW5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCSE Perim Zn (G.SE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11DBWNW Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES846676715 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-9-1 (pool)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	3626.4	36.	0.170	400.531	0.670	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	10009.	1.00	8.007	2.47	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
10ANorth Perim Zn (G.N8)	10009.	0.	0.000	0.145	1701.	0.00	0.00	227.00	-216.19	-135.12	1.

REPORT- SV-A System Design Parameters for AC-27-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	11098.6	47.	0.000	97.140	0.727	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	2846.	1.00	1.067	1.16	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
27MCCore Zn (G.C1)	106.	0.	0.000	0.678	0.	0.00	0.00	2.41	-3.11	-1.94	1.
27MCCore Zn (G.C2)	108.	0.	0.000	0.678	0.	0.00	0.00	2.46	-3.17	-1.98	1.
27MCCore Zn (G.C3)	138.	0.	0.000	0.678	0.	0.00	0.00	3.12	-4.03	-2.52	1.
27MCCore Zn (G.C4)	103.	0.	0.000	0.678	0.	0.00	0.00	2.33	-3.01	-1.88	1.
27MCCore Zn (G.C5)	385.	0.	0.000	0.678	0.	0.00	0.00	8.74	-11.29	-7.05	1.
27MCEast Perim Zn (G.E6)	582.	0.	0.000	0.678	0.	0.00	0.00	13.20	-17.04	-10.65	1.
27MCESE Perim Zn (G.ESE10)	503.	0.	0.000	0.678	0.	0.00	0.00	11.42	-14.75	-9.22	1.
27MCSW Perim Zn (G.SW11)	275.	0.	0.000	0.678	0.	0.00	0.00	6.24	-8.06	-5.04	1.
27MCSSW Perim Zn (G.SSW12)	410.	0.	0.000	0.678	0.	0.00	0.00	9.29	-12.00	-7.50	1.
27MCSouth Perim Zn (G.S13)	235.	0.	0.000	0.678	0.	0.00	0.00	5.33	-6.89	-4.30	1.
27MCWNW Perim Zn (G.WNW7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
27MCNNE Perim Zn (G.NNE8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
27MCWNW Perim Zn (G.WNW9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for AC-46-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	17511.2	35.	0.000	93.064	0.740	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	2827.	1.00	1.060	1.16	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
46MCCore Zn (T.C27)	186.	0.	0.000	0.395	0.	0.00	0.00	4.22	-4.02	-2.51	1.
46MCCore Zn (T.C28)	236.	0.	0.000	0.395	0.	0.00	0.00	5.36	-5.10	-3.19	1.
46MCCore Zn (T.C29)	176.	0.	0.000	0.395	0.	0.00	0.00	4.00	-3.81	-2.38	1.
46MCCore Zn (T.C30)	661.	0.	0.000	0.395	0.	0.00	0.00	15.00	-14.28	-8.93	1.
46MCSSW Perim Zn (T.SSW36)	784.	0.	0.000	0.296	0.	0.00	0.00	17.79	-16.94	-10.59	1.
46MCSW Perim Zn (T.SW37)	782.	0.	0.000	0.296	0.	0.00	0.00	17.74	-16.90	-10.56	1.
46MCNNW Perim Zn (T.NNW31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
46MCNNE Perim Zn (T.NNE32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
46MCEast Perim Zn (T.E33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
46MCESE Perim Zn (T.ESE34)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
46MCSouth Perim Zn (T.S35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
46MCWNW Perim Zn (T.WNW38)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
46MCP1 Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for AC-67-1 and AC-67-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	8211.1	33.	0.620	243.688	0.662	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	5677.	1.00	2.129	1.16	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
67MCSW Perim Zn (G.SW3)	424.	0.	0.000	0.396	263.	0.00	0.00	9.61	-9.15	-5.72	1.
67MCSSW Perim Zn (G.SSW4)	749.	0.	0.000	0.396	464.	0.00	0.00	16.98	-16.17	-10.11	1.
67MCSSE Perim Zn (G.SSE5)	514.	0.	0.000	0.396	318.	0.00	0.00	11.65	-11.09	-6.93	1.
67MCESE Perim Zn (G.ESE6)	862.	0.	0.000	0.396	534.	0.00	0.00	19.55	-18.62	-11.64	1.
67MCENE Perim Zn (G.ENE7)	650.	0.	0.000	0.396	403.	0.00	0.00	14.74	-14.04	-8.77	1.
67MCNE Perim Zn (G.NE8)	1223.	0.	0.000	0.396	758.	0.00	0.00	27.74	-26.41	-16.51	1.
67MCCore Zn (G.C9)	185.	0.	0.000	0.396	115.	0.00	0.00	4.21	-4.01	-2.50	1.
67MCCore Zn (G.C10)	235.	0.	0.000	0.396	146.	0.00	0.00	5.33	-5.08	-3.17	1.
67MCCore Zn (G.C11)	575.	0.	0.000	0.396	356.	0.00	0.00	13.03	-12.41	-7.76	1.
67MCCore Zn (G.C12)	262.	0.	0.000	0.396	162.	0.00	0.00	5.93	-5.65	-3.53	1.
67MCNNW Perim Zn (G.NNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
67MCWest Perim Zn (G.W2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for AC-95-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	4916.5	21.	0.000	175.878	0.754	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	5506.	1.00	1.266	0.71	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
91West Perim Zn (G.W4)	1565.	0.	0.000	0.357	0.	0.00	0.00	35.50	-33.81	-21.13	1.
91SW Perim Zn (G.SW5)	437.	0.	0.000	0.357	0.	0.00	0.00	9.92	-9.44	-5.90	1.
91South Perim Zn (G.S6)	1123.	0.	0.000	0.357	0.	0.00	0.00	25.47	-24.25	-15.16	1.
91Core Zn (G.C7)	261.	0.	0.000	0.357	0.	0.00	0.00	5.93	-5.64	-3.53	1.
91Core Zn (G.C8)	207.	0.	0.000	0.357	0.	0.00	0.00	4.69	-4.47	-2.79	1.
91Core Zn (G.C9)	290.	0.	0.000	0.357	0.	0.00	0.00	6.58	-6.27	-3.92	1.
91ESE Perim Zn (G.ESE11)	1623.	0.	0.000	0.357	0.	0.00	0.00	36.81	-35.06	-21.91	1.

REPORT- SV-A System Design Parameters for AC-95-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	4498.6	13.	0.000	240.572	0.763	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	7698.	1.00	1.709	0.69	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
92West Perim Zn (G.W4)	2795.	0.	0.000	0.200	0.	0.00	0.00	63.39	-60.37	-37.73	1.
92South Perim Zn (G.S6)	2005.	0.	0.000	0.200	0.	0.00	0.00	45.47	-43.31	-27.07	1.
92ESE Perim Zn (G.ESE11)	2899.	0.	0.000	0.200	0.	0.00	0.00	65.74	-62.61	-39.13	1.
92SW Perim Zn (G.SW5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
92Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

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DEPT OF BLDGS121328205 Job Number

ES757908597 Scan Code N 1

REPORT- SV-A System Design Parameters for AC-96-1 & AC-96-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	14195.9	16.	0.000	903.716	0.766	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	29160.	1.00	7.115	0.75	0.0	0.00	0.00	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
92Core Zn (G.C7)	802.	0.	0.000	0.116	0.	0.00	0.00	18.19	-17.32	-10.83	1.
92Core Zn (G.C8)	802.	0.	0.000	0.092	0.	0.00	0.00	18.20	-17.33	-10.83	1.
93MERZn	13778.	0.	0.000	0.200	0.	0.00	0.00	312.49	-297.60	-186.00	2.

REPORT- SV-A System Design Parameters for RCS-11-1 (corridor)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	5878.0	6.	1.000	384.960	0.398	-397.156	0.322	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
1519Core Zn (M.C19)	517.	0.	0.000	1.000	517.	0.00	0.00	11.17	0.00	-1.68	5.
1519Core Zn (G.C5)	103.	0.	0.000	1.000	103.	0.00	0.00	2.23	0.00	1.90	3.
1519Core Zn (T.C33)	103.	0.	0.000	1.000	103.	0.00	0.00	2.23	0.00	1.90	1.

REPORT- SV-A System Design Parameters for RCS-26-1 (corridor)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	4571.8	5.	1.000	394.306	0.388	-406.797	0.322	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
2026Core Zn (G.C5)	1453.	0.	0.000	1.000	1453.	0.00	0.00	31.39	0.00	-4.71	1.
2026Core Zn (M.C19)	258.	0.	0.000	1.000	258.	0.00	0.00	5.57	0.00	4.73	5.
2026Core Zn (T.C33)	258.	0.	0.000	1.000	258.	0.00	0.00	5.57	0.00	4.73	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES295536925 Scan Code N 1

REPORT- SV-A System Design Parameters for RCS-26-2 (corridor)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	11756.0	12.	1.000	394.306	0.388	-406.797	0.322	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
28Core Zn (G.C4)	747.	0.	0.000	1.000	747.	0.00	0.00	16.13	0.00	-2.42	1.
2936Core Zn (M.C17)	133.	0.	0.000	1.000	133.	0.00	0.00	2.86	0.00	2.43	8.
3744Core Zn (M.C17)	133.	0.	0.000	1.000	133.	0.00	0.00	2.86	0.00	2.43	8.
45Core Zn (T.C30)	133.	0.	0.000	1.000	133.	0.00	0.00	2.86	0.00	2.43	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES547882241 Scan Code N 1

REPORT- SV-A System Design Parameters for RCS-45-1 (corridor)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10808.6	11.	1.000	492.882	0.388	-508.497	0.322	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	3750.	1.00	3.495	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
4856Core Zn (M.C25)	350.	0.	0.000	1.000	350.	0.00	0.00	7.57	0.00	-1.14	9.
5765Core Zn (M.C25)	60.	0.	0.000	1.000	60.	0.00	0.00	1.29	0.00	1.10	9.
66Core Zn (T.C38)	60.	0.	0.000	1.000	60.	0.00	0.00	1.29	0.00	1.10	1.

REPORT- SV-A System Design Parameters for RCS-92-1 (corridor)

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	15364.7	45.	1.000	525.741	0.388	-538.527	0.320	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	4000.	1.00	3.728	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
8087Core Zn (M.C23)	356.	0.	0.000	1.000	356.	0.00	0.00	7.69	0.00	-1.15	8.
68Core Zn (G.C10)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	1.
69Core Zn (G.C10)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	1.
70Core Zn (G.C11)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	1.
7179Core Zn (M.C23)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	9.
88Core Zn (T.C35)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	1.
89Core Zn (G.C10)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	2.
90Core Zn (G.C10)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	2.
91Core Zn (G.C10)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	1.
92Core Zn (G.C10)	61.	0.	0.000	1.000	61.	0.00	0.00	1.31	0.00	1.11	1.

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 DEPT OF BLDGS121328205 Job Number



 ES994176368 Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-11-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1970.103	0.391	-2003.516	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	14500.	1.00	19.474	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-11-1 Zn	14500.	0.	0.000	1.000	14500.	0.00	0.00	328.86	0.00	-234.90	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES040034573 Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-27-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1358.692	0.391	-1381.735	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	10000.	1.00	13.430	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-27-1 Zn	10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	1.

Extell 221 West 57th St



DEPT OF BLDGS121328205

Job Number



ES599264895

Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-27-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1358.692	0.391	-1381.735	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	10000.	1.00	13.430	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-27-2 Zn	10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES271736010 Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-46-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1358.692	0.391	-1381.735	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	10000.	1.00	13.430	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-46-1 Zn	10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	1.

Extell 221 West 57th St


 DEPT OF BLDGS121328205 Job Number


 ES532794281 Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-46-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1630.430	0.391	-1658.082	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	12000.	1.00	16.116	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-46-2 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES979559800 Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-67-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1630.430	0.391	-1658.082	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	12000.	1.00	16.116	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-67-1 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES683549177 Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-67-2

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1630.430	0.391	-1658.082	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	12000.	1.00	16.116	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-67-2 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	1.

Extell 221 West 57th St



 DEPT OF BLDGS121328205 Job Number



 ES785928839 Scan Code N 1

REPORT- SV-A System Design Parameters for ERU-91-1

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1630.430	0.391	-1658.082	0.318	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	12000.	1.00	16.116	4.15	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-91-1 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	1.

REPORT- SV-A System Design Parameters for Penthouse Fan Coil

WEATHER FILE- New York CityNY TMY2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	43345.2	16.	0.000	530.664	0.803	0.000	0.279	0.000	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	18525.	1.00	9.651	1.61	0.0	0.63	0.00	DRAW-THRU	BY USER	1.10	0.30
RETURN	18525.	1.00	9.651	1.61	0.0	0.63	0.70	RETURN	BY USER	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
90NNW Perim Zn (G.NNW1)	1083.	0.	0.000	0.348	0.	0.00	0.00	24.56	-29.24	-39.62	2.
90NE Perim Zn (G.NE2)	589.	0.	0.000	0.348	0.	0.00	0.00	13.36	-15.90	-32.95	2.
90ESE Perim Zn (G.ESE3)	825.	0.	0.000	0.348	0.	0.00	0.00	18.70	-22.26	-36.13	2.
90West Perim Zn (G.W4)	1607.	0.	0.000	0.348	0.	0.00	0.00	36.45	-43.39	-46.70	2.
90SW Perim Zn (G.SW5)	568.	0.	0.000	0.275	0.	0.00	0.00	12.87	-15.33	-32.66	2.
90South Perim Zn (G.S6)	1153.	0.	0.000	0.348	0.	0.00	0.00	26.15	-31.13	-40.56	2.
91NNW Perim Zn (G.NNW1)	1624.	0.	0.000	0.232	0.	0.00	0.00	36.84	-43.86	-46.93	1.
91NE Perim Zn (G.NE2)	782.	0.	0.000	0.262	0.	0.00	0.00	17.72	-21.10	-35.55	1.
91Core Zn (G.C3)	825.	0.	0.000	0.348	0.	0.00	0.00	18.70	-22.26	-36.13	1.
92NNW Perim Zn (G.NNW1)	1624.	0.	0.000	0.232	0.	0.00	0.00	36.84	-43.86	-46.93	1.
92NE Perim Zn (G.NE2)	785.	0.	0.000	0.261	0.	0.00	0.00	17.81	-21.20	-35.60	1.
92Core Zn (G.C3)	1237.	0.	0.000	0.232	0.	0.00	0.00	28.05	-33.40	-41.70	1.
90Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
90Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
90ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
90Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
91Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
92Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
EM1 ELECTRICITY													
MBTU	1663.0	194.2	1530.9	294.2	1483.7	73.8	883.7	6571.5	1445.0	0.0	275.6	920.2	15335.7
EM2- ELECTRICITY													
MBTU	6945.8	0.0	2970.7	0.0	2722.3	0.0	0.0	678.3	0.0	0.0	0.0	0.0	13317.0
EM3- ELECTRICITY													
MBTU	4019.4	1.9	1451.7	72.7	5152.5	0.0	0.0	381.9	0.0	0.0	0.0	0.0	11080.0
DM1 ELECTRICITY													
MBTU	0.0	0.0	2352.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2352.4
EM4 ELECTRICITY													
MBTU	0.0	0.0	0.0	0.0	0.0	0.0	129.9	0.0	0.0	0.0	0.0	0.0	129.9
EM5 ELECTRICITY													
MBTU	0.0	0.0	0.0	0.0	0.0	0.0	12159.0	0.0	0.0	0.0	0.0	0.0	12159.0
FM1 NATURAL-GAS													
MBTU	0.0	0.0	4646.1	23472.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28118.9
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
MBTU	12628.1	196.1	12951.8	23839.6	9358.4	73.8	13172.5	7631.7	1445.0	0.0	275.6	920.2	82493.0

TOTAL SITE ENERGY 82493.01 MBTU 70.7 KBTU/SQFT-YR GROSS-AREA 70.7 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY 191241.42 MBTU 163.8 KBTU/SQFT-YR GROSS-AREA 163.8 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.63
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.00
HOURS ANY ZONE ABOVE COOLING THROTTLING RANGE = 5
HOURS ANY ZONE BELOW HEATING THROTTLING RANGE = 50

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
EM1 ELECTRICITY KWH	487246.	56896.	448552.	86187.	434711.	21633.	258915.	1925445.	423382.	0.	80759.	269633.	4493364.
EM2- ELECTRICITY KWH	2035109.	0.	870404.	0.	797621.	0.	0.	198751.	0.	0.	0.	0.	3901893.
EM3- ELECTRICITY KWH	1177675.	552.	425345.	21293.	1509691.	0.	0.	111897.	0.	0.	0.	0.	3246450.
DM1 ELECTRICITY KWH	0.	0.	689267.	0.	0.	0.	0.	0.	0.	0.	0.	0.	689267.
EM4 ELECTRICITY KWH	0.	0.	0.	0.	0.	0.	38057.	0.	0.	0.	0.	0.	38057.
EM5 ELECTRICITY KWH	0.	0.	0.	0.	0.	0.	3562583.	0.	0.	0.	0.	0.	3562583.
FM1 NATURAL-GAS THERM	0.	0.	46461.	234728.	0.	0.	0.	0.	0.	0.	0.	0.	281189.

TOTAL ELECTRICITY 15931613. KWH 13.647 KWH /SQFT-YR GROSS-AREA 13.647 KWH /SQFT-YR NET-AREA
TOTAL NATURAL-GAS 281189. THERM 0.241 THERM /SQFT-YR GROSS-AREA 0.241 THERM /SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.63
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.00
HOURS ANY ZONE ABOVE COOLING THROTTLING RANGE = 5
HOURS ANY ZONE BELOW HEATING THROTTLING RANGE = 50

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

UTILITY-RATE		RESOURCE		METERS		METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
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ConEd SC9		ELECTRICITY		EM1 EM4	EM2- EM5	11995894. KWH	2424400.	0.2021	YES
Gas Rate ConEd SC3		NATURAL-GAS		FM1		281189. THERM	299316.	1.0645	YES
ConEd SC1-Rate I		ELECTRICITY		EM3-		3246450. KWH	702084.	0.2163	YES
							=====		
							3425800.		

NUMBER OF SPACES 529 EXTERIOR 334 INTERIOR 195

SPACE	SPACE*FLOOR MULTIPLIER	SPACE TYPE	LIGHTS (WATT / SQFT)	PEOPLE	EQUIP (WATT / SQFT)	INFILTRATION METHOD	ACH	AREA (SQFT)	VOLUME (CUFT)
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Spaces on floor: SC3Below-Grade Flr

SC3North Perim Spc (B.N1)	1.0	INT	90.0	0.88	31.5	0.25	NO-INFILT.	0.00	7871.5	78714.5
SC3SSW Perim Spc (B.SSW2)	1.0	INT	0.0	0.88	31.6	0.25	NO-INFILT.	0.00	7891.8	78917.5
SC3Core Spc (B.C3)	1.0	INT	0.0	0.88	0.7	0.25	NO-INFILT.	0.00	173.1	1731.3
SC3Core Spc (B.C4)	1.0	INT	0.0	0.88	0.7	0.25	NO-INFILT.	0.00	177.0	1770.0
SC3Core Spc (B.C5)	1.0	INT	0.0	0.88	0.9	0.25	NO-INFILT.	0.00	223.8	2237.5
SC3Core Spc (B.C6)	1.0	INT	0.0	0.88	1.9	0.25	NO-INFILT.	0.00	483.5	4835.0
SC3ESE Perim Spc (B.ESE7)	1.0	INT	-90.0	0.88	1.2	0.25	NO-INFILT.	0.00	311.1	3111.3

Spaces on floor: SC2Below-Grade Flr

SC2WNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	27216.0
SC2NNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	36251.9
SC2Core Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	13249.6
SC2Core Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	103472.1
SC2SW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	13776.0
SC2WNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	4672.5
SC2SSW Perim Spc (B.SSW7)	1.0	INT	0.0	0.88	40.7	0.25	NO-INFILT.	0.00	2033.3	28465.5
SC2ESE Perim Spc (B.ESE8)	1.0	INT	-90.0	0.88	54.1	0.25	NO-INFILT.	0.00	2705.3	37873.5
SC2Core Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	121145.0
SC2Core Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	15067.0
SC2Core Spc (B.C11)	1.0	INT	0.0	1.00	114.7	0.25	NO-INFILT.	0.00	5737.3	80322.0

Spaces on floor: SC1Below-Grade Flr

SC1WNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	34020.0
SC1NNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	45314.9
SC1Core Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	16562.0
SC1Core Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	129340.1
SC1SW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	17220.0
SC1WNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	5840.6
SC1SSW Perim Spc (B.SSW7)	1.0	INT	0.0	1.70	40.7	1.00	NO-INFILT.	0.00	2033.3	35581.9
SC1ESE Perim Spc (B.ESE8)	1.0	INT	-90.0	0.88	54.1	0.25	NO-INFILT.	0.00	2705.3	47341.9
SC1Core Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	151431.2
SC1Core Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	18833.8
SC1Core Spc (B.C11)	1.0	INT	0.0	1.70	114.7	1.00	NO-INFILT.	0.00	5737.3	100402.5

Spaces on floor: CBelow-Grade Flr

CWNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	34020.0
CNNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	45314.9
CCore Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	16562.0
CCore Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	129340.1
CSW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	17220.0
CWNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	5840.6

Extell 221 West 57th St

DOE-2.2-47h2 9/17/2015 16:41:03 BDL RUN 4

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

CSSW Perim Spc (B.SSW7)	1.0	INT	0.0	1.70	40.7	1.00	NO-INFILT.	0.00	2033.3	35581.9
CESE Perim Spc (B.ESE8)	1.0	INT	-90.0	0.88	54.1	0.25	NO-INFILT.	0.00	2705.3	47341.9
CCore Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	151431.2
CCore Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	18833.8
CCore Spc (B.C11)	1.0	INT	0.0	1.70	114.7	1.00	NO-INFILT.	0.00	5737.3	100402.5

Spaces on floor: GGround Flr

GNW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	18.9	1.00	AIR-CHANGE	0.20	946.4	14196.0
GNW Perim Spc (G.NW2)	1.0	EXT	45.0	0.88	53.7	0.25	AIR-CHANGE	0.04	2684.9	40273.1
GNNE Perim Spc (G.NNE3)	1.0	EXT	33.3	1.70	24.6	1.00	AIR-CHANGE	0.16	1231.5	18472.2
GSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	5512.5
GWest Perim Spc (G.W5)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	12566.3
GEast Perim Spc (G.E6)	1.0	EXT	135.0	1.70	18.3	1.00	AIR-CHANGE	0.15	917.2	13757.5
GNNE Perim Spc (G.NNE7)	1.0	EXT	180.0	1.70	63.8	1.00	AIR-CHANGE	0.04	3191.1	47866.2
GWest Perim Spc (G.W8)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	7321.6
GSSW Perim Spc (G.SSW9)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	14979.4
GESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	1.70	9.0	1.00	AIR-CHANGE	0.11	449.1	6736.8
GESE Perim Spc (G.ESE11)	1.0	EXT	0.0	1.70	46.1	1.00	AIR-CHANGE	0.13	2304.7	34571.2
GSSW Perim Spc (G.SSW12)	1.0	EXT	0.0	1.70	37.4	1.00	AIR-CHANGE	0.17	1871.3	28068.8
GCore Spc (G.C13)	1.0	INT	0.0	1.70	62.9	1.00	AIR-CHANGE	0.00	3143.8	47157.0
GCore Spc (G.C14)	1.0	INT	0.0	1.70	11.6	1.00	AIR-CHANGE	0.00	581.2	8717.6
GNNE Perim Spc (G.NNE15)	1.0	EXT	-90.0	1.70	43.7	1.00	AIR-CHANGE	0.08	2182.5	32737.5
GCore Spc (G.C16)	1.0	INT	0.0	1.70	87.5	1.00	AIR-CHANGE	0.00	4376.0	65640.7
GCore Spc (G.C17)	1.0	INT	0.0	1.70	152.4	1.00	AIR-CHANGE	0.00	7621.7	114325.0
GPlnm (G.18)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.06	34193.8	68387.5

Spaces on floor: 1MGround Flr

1MNW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	8112.0
1MNorth Perim Spc (G.N2)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	16842.0
1MSW Perim Spc (G.SW3)	1.0	EXT	66.6	1.70	30.1	1.00	AIR-CHANGE	0.18	1506.9	12055.1
1MSW Perim Spc (G.SW4)	1.0	EXT	90.0	1.70	22.7	1.00	AIR-CHANGE	0.12	1134.8	9078.0
1MSSW Perim Spc (G.SSW5)	1.0	EXT	0.0	1.70	45.0	1.00	AIR-CHANGE	0.17	2247.8	17982.0
1MNNE Perim Spc (G.NNE6)	1.0	EXT	180.0	1.70	44.2	1.00	AIR-CHANGE	0.16	2210.3	17682.0
1MESE Perim Spc (G.ESE7)	1.0	EXT	135.0	1.70	54.1	1.00	AIR-CHANGE	0.16	2704.8	21638.4
1MCore Spc (G.C8)	1.0	INT	0.0	0.88	60.6	0.25	AIR-CHANGE	0.01	3032.1	24256.5
1MCore Spc (G.C9)	1.0	INT	0.0	1.70	28.0	1.00	AIR-CHANGE	0.01	1399.3	11194.6
1MCore Spc (G.C10)	1.0	INT	0.0	0.88	88.4	0.25	AIR-CHANGE	0.01	4420.3	35362.6
1MCore Spc (G.C11)	1.0	INT	0.0	1.70	287.0	1.00	AIR-CHANGE	0.01	14350.5	114804.3

Spaces on floor: 25Ground Flr

25NW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	17745.0
25North Perim Spc (G.N2)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	36841.9
25SSW Perim Spc (G.SSW3)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	6431.3
25West Perim Spc (G.W4)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	14660.6
25SSW Perim Spc (G.SSW5)	1.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5	38456.3
25Core Spc (G.C6)	1.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4	101157.4
25West Perim Spc (G.W7)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	8541.8
25SSW Perim Spc (G.SSW8)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	17475.9
25ESE Perim Spc (G.ESE9)	1.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1	26094.6
25ESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3	21249.4
25NNE Perim Spc (G.NNE11)	1.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3	28546.9
25NNE Perim Spc (G.NNE12)	1.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0	10132.5
25Core Spc (G.C13)	1.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6	20327.7
25Core Spc (G.C14)	1.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5	29688.8

(CONTINUED)									
25Core Spc (G.C15)	1.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3 163594.4
25Core Spc (G.C16)	1.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5 91270.9

Spaces on floor: 25Mid Flrs

25NW Perim Spc (M.NW17)	2.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0 17745.0
25North Perim Spc (M.N18)	2.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3 36841.9
25SSW Perim Spc (M.SSW19)	2.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5 6431.3
25West Perim Spc (M.W20)	2.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8 14660.6
25SSW Perim Spc (M.SSW21)	2.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5 38456.3
25Core Spc (M.C22)	2.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4 101157.4
25West Perim Spc (M.W23)	2.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1 8541.8
25SSW Perim Spc (M.SSW24)	2.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6 17475.9
25ESE Perim Spc (M.ESE25)	2.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1 26094.6
25ESE Perim Spc (M.ESE26)	2.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3 21249.4
25NNE Perim Spc (M.NNE27)	2.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3 28546.9
25NNE Perim Spc (M.NNE28)	2.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0 10132.5
25Core Spc (M.C29)	2.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6 20327.7
25Core Spc (M.C30)	2.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5 29688.8
25Core Spc (M.C31)	2.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3 163594.4
25Core Spc (M.C32)	2.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5 91270.9

Spaces on floor: 25Top Flr

25NW Perim Spc (T.NW33)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0 17745.0
25North Perim Spc (T.N34)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3 36841.9
25SSW Perim Spc (T.SSW35)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5 6431.3
25West Perim Spc (T.W36)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8 14660.6
25SSW Perim Spc (T.SSW37)	1.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5 38456.3
25Core Spc (T.C38)	1.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4 101157.4
25West Perim Spc (T.W39)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1 8541.8
25SSW Perim Spc (T.SSW40)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6 17475.9
25ESE Perim Spc (T.ESE41)	1.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1 26094.6
25ESE Perim Spc (T.ESE42)	1.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3 21249.4
25NNE Perim Spc (T.NNE43)	1.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3 28546.9
25NNE Perim Spc (T.NNE44)	1.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0 10132.5
25Core Spc (T.C45)	1.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6 20327.7
25Core Spc (T.C46)	1.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5 29688.8
25Core Spc (T.C47)	1.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3 163594.4
25Core Spc (T.C48)	1.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5 91270.9

Spaces on floor: 6MCGround Flr

6MCWSW Perim Spc (G.WSW1)	1.0	EXT	66.6	0.88	11.3	0.25	AIR-CHANGE	0.18	2836.6 102119.2
6MCNorth Perim Spc (G.N2)	1.0	EXT	33.3	0.88	8.2	0.25	AIR-CHANGE	0.16	2055.5 73998.7
6MCNW Perim Spc (G.NW3)	1.0	EXT	90.0	0.88	3.2	0.25	AIR-CHANGE	0.22	801.8 28863.0
6MCNNE Perim Spc (G.NNE4)	1.0	EXT	180.0	0.88	8.8	0.25	AIR-CHANGE	0.18	2210.3 79569.0
6MCESE Perim Spc (G.ESE5)	1.0	EXT	-90.0	0.88	9.3	0.25	AIR-CHANGE	0.19	2323.9 83659.5
6MCSSW Perim Spc (G.SSW6)	1.0	EXT	0.0	0.88	7.7	0.25	AIR-CHANGE	0.19	1936.7 69722.0
6MCCore Spc (G.C7)	1.0	INT	0.0	0.88	33.0	0.25	AIR-CHANGE	0.00	8247.1 296895.3
6MCCore Spc (G.C8)	1.0	INT	0.0	0.88	19.5	0.25	AIR-CHANGE	0.00	4872.1 175394.6
6MCCore Spc (G.C9)	1.0	INT	0.0	0.88	11.8	0.25	AIR-CHANGE	0.00	2937.6 105755.0
6MCCore Spc (G.C10)	1.0	INT	0.0	0.88	15.2	0.25	AIR-CHANGE	0.00	3796.7 136681.6
6MCPlnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.06	32018.6 64037.2
6MC Top Spc	1.0	EXT	0.0	0.88	2.9	0.25	NO-INFILT.	0.00	2916.0 58320.0
Roof Spc (6MC)	1.0	EXT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	29904.8 598095.7

Spaces on floor: 8AGround Flr (rev: amen 8 + 9)

Prop Extell 221 West 57th St - 1.SIM

8ANW Perim Spc (G.NW1)	1.0	EXT	90.0	0.70	4.5	0.27	AIR-CHANGE	0.22	451.4	10833.4
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Extell 221 West 57th St

DOE-2.2-47h2 9/17/2015 16:41:03 BDL RUN 4

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

8AWSW Perim Spc (G.WSW2)	1.0	EXT	0.0	0.70	33.0	0.27	AIR-CHANGE	0.13	3297.3	79136.0
8ANNE Perim Spc (G.NNE3)	1.0	EXT	90.0	0.70	2.1	0.27	AIR-CHANGE	0.09	205.4	4929.6
8ACore Spc (G.C4)	1.0	INT	0.0	0.70	4.7	0.27	AIR-CHANGE	0.00	474.0	11376.5
8ANNE Perim Spc (G.NNE5)	1.0	EXT	90.0	0.70	3.0	0.27	AIR-CHANGE	0.14	298.3	7159.2
8ACore Spc (G.C6)	1.0	INT	0.0	0.70	1.8	0.27	AIR-CHANGE	0.00	179.8	4314.6
8ANNE Perim Spc (G.NNE7)	1.0	EXT	90.0	0.70	2.1	0.27	AIR-CHANGE	0.12	207.9	4989.6
8ACore Spc (G.C8)	1.0	INT	0.0	0.00	1.8	0.00	AIR-CHANGE	0.00	183.6	4406.4
8ASW Perim Spc (G.SW9)	1.0	EXT	90.0	0.70	5.0	0.27	AIR-CHANGE	0.09	503.2	12077.9
8AWSW Perim Spc (G.WSW10)	1.0	EXT	0.0	0.00	2.3	0.00	AIR-CHANGE	0.30	233.3	5599.8
8ASSW Perim Spc (G.SSW11)	1.0	EXT	0.0	0.00	3.2	0.00	AIR-CHANGE	0.07	324.0	7775.5
8AESE Perim Spc (G.ESE12)	1.0	EXT	-90.0	0.00	3.4	0.27	AIR-CHANGE	0.53	340.1	8162.9

Spaces on floor: 8MAGround Flr (rev: amen mz 8+9)

8MANNE Perim Spc (G.NNE1)	1.0	EXT	90.0	0.70	2.8	0.27	AIR-CHANGE	0.50	706.0	14119.0
8MASSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.70	13.7	0.27	AIR-CHANGE	0.28	3416.3	68326.0

Spaces on floor: 10AGround Flr

10AWNw Perim Spc (G.WNW1)	1.0	EXT	90.0	0.70	11.7	0.27	AIR-CHANGE	0.07	1165.7	16319.2
10ASSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.00	1.2	0.27	AIR-CHANGE	0.63	121.4	1699.4
10ACore Spc (G.C3)	1.0	INT	0.0	0.00	1.8	0.27	AIR-CHANGE	0.00	183.6	2570.4
10AESE Perim Spc (G.ESE4)	1.0	EXT	-90.0	0.70	6.5	0.27	AIR-CHANGE	0.05	653.1	9143.5
10ACore Spc (G.C5)	1.0	INT	0.0	0.00	2.3	0.27	AIR-CHANGE	0.00	233.3	3266.6
10AESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.00	1.7	0.27	AIR-CHANGE	0.24	174.1	2437.6
10ASSW Perim Spc (G.SSW7)	1.0	EXT	0.0	0.70	31.6	0.27	AIR-CHANGE	0.12	3163.8	44292.9
10ANorth Perim Spc (G.N8)	1.0	EXT	90.0	0.70	36.3	0.27	AIR-CHANGE	0.10	3626.4	50769.0
10AENE Perim Spc (G.ENE9)	1.0	EXT	180.0	0.70	15.0	0.27	AIR-CHANGE	0.12	1499.3	20990.4
10APlnm (G.10)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	10820.6	450896.3

Spaces on floor: 10MGround Flr (rev: 11BMU)

10MWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	0.00	4.7	0.00	AIR-CHANGE	0.07	1165.7	67993.0
10MSSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.63	121.4	7080.5
10MCore Spc (G.C3)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	183.6	10709.4
10MESE Perim Spc (G.ESE4)	1.0	EXT	-90.0	0.00	2.6	0.00	AIR-CHANGE	0.05	653.1	38095.9
10MCore Spc (G.C5)	1.0	INT	0.0	0.00	0.9	0.00	AIR-CHANGE	0.00	233.3	13609.8
10MESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.00	0.7	0.00	AIR-CHANGE	0.24	174.1	10156.1
10MSSW Perim Spc (G.SSW7)	1.0	EXT	0.0	0.00	12.7	0.00	AIR-CHANGE	0.12	3163.8	184543.1
10MNorth Perim Spc (G.N8)	1.0	EXT	90.0	0.00	14.5	0.00	AIR-CHANGE	0.10	3626.4	211525.4
10MENE Perim Spc (G.ENE9)	1.0	EXT	180.0	0.00	6.0	0.00	AIR-CHANGE	0.12	1499.3	87454.9

Spaces on floor: 11MCGround Flr (rev: 12MC)

11MCNNE Perim Spc (G.NNE1)	1.0	EXT	90.0	0.88	24.8	0.25	AIR-CHANGE	0.11	6201.1	146965.8
11MCWNW Perim Spc (G.WNW2)	1.0	EXT	90.0	0.88	0.6	0.25	AIR-CHANGE	0.12	147.6	3497.6
11MCSSW Perim Spc (G.SW3)	1.0	EXT	0.0	0.88	0.5	0.25	AIR-CHANGE	0.44	136.3	3230.3
11MCSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	0.88	1.1	0.25	AIR-CHANGE	0.09	277.1	6566.9
11MCSSW Perim Spc (G.WSW5)	1.0	EXT	90.0	0.88	8.3	0.25	AIR-CHANGE	0.15	2069.4	49045.0
11MCSE Perim Spc (G.SE6)	1.0	EXT	0.0	0.88	5.1	0.25	AIR-CHANGE	0.14	1269.5	30087.2
11MCCore Spc (G.C7)	1.0	INT	0.0	0.88	0.7	0.25	AIR-CHANGE	0.00	183.6	4351.3
11MCCore Spc (G.C8)	1.0	INT	0.0	0.88	0.9	0.25	AIR-CHANGE	0.00	233.3	5529.8
11MCCore Spc (G.C9)	1.0	INT	0.0	0.88	0.7	0.25	AIR-CHANGE	0.00	174.1	4126.5
11MCCore Spc (G.C10)	1.0	INT	0.0	0.88	2.6	0.25	AIR-CHANGE	0.00	653.1	15478.7
ERU-11-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 11DBGround Flr (rev: 12DBMC)

Prop Extell 221 West 57th St - 1.SIM

11DBWNW Perim Spc (G.WNW1) 1.0 EXT 90.0 0.88 7.6 0.25 AIR-CHANGE 0.19 1910.8 135667.5



9/17/2015

Spaces on floor: 1519Ground Flr (rev: 13)

1519Core Spc (G.C1)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
1519Core Spc (G.C2)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
1519Core Spc (G.C3)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
1519Core Spc (G.C4)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
1519Core Spc (G.C5)	3.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
1519WNW Perim Spc (G.WNW6)	3.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
1519NNE Perim Spc (G.NNE7)	3.0	EXT	0.0	0.66	3.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
1519East Perim Spc (G.E8)	3.0	EXT	180.0	0.66	2.0	0.24	AIR-CHANGE	0.15	986.2	9862.3
1519ESE Perim Spc (G.ESE9)	3.0	EXT	-90.0	0.66	2.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
1519South Perim Spc (G.S10)	3.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.23	433.7	4336.8
1519SSE Perim Spc (G.SSE11)	3.0	EXT	-90.0	0.66	3.0	0.24	AIR-CHANGE	0.09	1922.4	19223.8
1519West Perim Spc (G.W12)	3.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	1360.4	13604.5
1519WNW Perim Spc (G.WNW13)	3.0	EXT	90.0	0.00	0.0	0.00	AIR-CHANGE	0.07	1060.8	10608.1
1519Plnm (G.14)	3.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 1519Mid Flrs

1519Core Spc (M.C15)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
1519Core Spc (M.C16)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
1519Core Spc (M.C17)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
1519Core Spc (M.C18)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
1519Core Spc (M.C19)	5.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
1519WNW Perim Spc (M.WNW20)	5.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
1519NNE Perim Spc (M.NNE21)	5.0	EXT	0.0	0.66	3.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
1519East Perim Spc (M.E22)	5.0	EXT	180.0	0.66	2.0	0.24	AIR-CHANGE	0.15	986.2	9862.3
1519ESE Perim Spc (M.ESE23)	5.0	EXT	-90.0	0.66	2.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
1519South Perim Spc (M.S24)	5.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.23	433.7	4336.8
1519SSE Perim Spc (M.SSE25)	5.0	EXT	-90.0	0.66	3.0	0.24	AIR-CHANGE	0.09	1922.4	19223.8
1519West Perim Spc (M.W26)	5.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.13	1360.4	13604.5
1519WNW Perim Spc (M.WNW27)	5.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.07	1060.8	10608.1
1519Plnm (M.28)	5.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 1519Top Flr

1519Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
1519Core Spc (T.C30)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
1519Core Spc (T.C31)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
1519Core Spc (T.C32)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
1519Core Spc (T.C33)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
1519WNW Perim Spc (T.WNW34)	1.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.13	1244.8	17427.9
1519NNE Perim Spc (T.NNE35)	1.0	EXT	0.0	0.66	3.0	0.24	AIR-CHANGE	0.05	3970.0	55580.1
1519East Perim Spc (T.E36)	1.0	EXT	180.0	0.66	2.0	0.24	AIR-CHANGE	0.11	986.2	13807.2
1519ESE Perim Spc (T.ESE37)	1.0	EXT	-90.0	0.66	2.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
1519South Perim Spc (T.S38)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.16	433.7	6071.5
1519SSE Perim Spc (T.SSE39)	1.0	EXT	-90.0	0.66	3.0	0.24	AIR-CHANGE	0.06	1922.4	26913.3
1519West Perim Spc (T.W40)	1.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.09	1360.4	19046.3
1519WNW Perim Spc (T.WNW41)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
1519Plnm (T.42)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 2026Ground Flr

2026Core Spc (G.C1)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
2026Core Spc (G.C2)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
2026Core Spc (G.C3)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6

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2026Core Spc (G.C4)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
2026Core Spc (G.C5)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
2026East Perim Spc (G.E6)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.11	986.2	13807.2
2026WNW Perim Spc (G.WNW7)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.13	1244.8	17427.9
2026NNE Perim Spc (G.NNE8)	1.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.05	3970.0	55580.1
2026WNW Perim Spc (G.WNW9)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
2026ESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
2026SW Perim Spc (G.SW11)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.16	466.4	6530.2
2026SSW Perim Spc (G.SSW12)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.10	694.2	9718.8
2026South Perim Spc (G.S13)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	398.6	5580.1
2026Plnm (G.14)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 2026Mid Flrs

2026Core Spc (M.C15)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
2026Core Spc (M.C16)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
2026Core Spc (M.C17)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
2026Core Spc (M.C18)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
2026Core Spc (M.C19)	5.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
2026East Perim Spc (M.E20)	5.0	EXT	180.0	0.66	6.2	0.24	AIR-CHANGE	0.15	986.2	9862.3
2026WNW Perim Spc (M.WNW21)	5.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
2026NNE Perim Spc (M.NNE22)	5.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
2026WNW Perim Spc (M.WNW23)	5.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.07	1060.8	10608.1
2026ESE Perim Spc (M.ESE24)	5.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
2026SW Perim Spc (M.SW25)	5.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.22	466.4	4664.4
2026SSW Perim Spc (M.SSW26)	5.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	694.2	6942.0
2026South Perim Spc (M.S27)	5.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	398.6	3985.8
2026Plnm (M.28)	5.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 2026Top Flr

2026Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
2026Core Spc (T.C30)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
2026Core Spc (T.C31)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
2026Core Spc (T.C32)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
2026Core Spc (T.C33)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
2026East Perim Spc (T.E34)	1.0	EXT	180.0	0.66	6.2	0.24	AIR-CHANGE	0.11	986.2	13807.2
2026WNW Perim Spc (T.WNW35)	1.0	EXT	90.0	0.66	7.8	0.24	AIR-CHANGE	0.13	1244.8	17427.9
2026NNE Perim Spc (T.NNE36)	1.0	EXT	0.0	0.66	24.8	0.24	AIR-CHANGE	0.05	3970.0	55580.1
2026WNW Perim Spc (T.WNW37)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
2026ESE Perim Spc (T.ESE38)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
2026SW Perim Spc (T.SW39)	1.0	EXT	0.0	0.66	2.9	0.24	AIR-CHANGE	0.16	466.4	6530.2
2026SSW Perim Spc (T.SSW40)	1.0	EXT	0.0	0.66	4.3	0.24	AIR-CHANGE	0.10	694.2	9718.8
2026South Perim Spc (T.S41)	1.0	EXT	-90.0	0.66	2.5	0.24	AIR-CHANGE	0.17	398.6	5580.1
2026Plnm (T.42)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 27MCGround Flr

27MCCore Spc (G.C1)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	180.0	3240.0
27MCCore Spc (G.C2)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	183.6	3304.8
27MCCore Spc (G.C3)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	233.3	4199.9
27MCCore Spc (G.C4)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	174.1	3134.1
27MCCore Spc (G.C5)	1.0	INT	0.0	0.88	2.6	0.25	AIR-CHANGE	0.00	653.1	11756.0
27MCEast Perim Spc (G.E6)	1.0	EXT	180.0	0.88	3.9	0.25	AIR-CHANGE	0.20	986.2	17752.1
27MCWNW Perim Spc (G.WNW7)	1.0	EXT	90.0	0.88	5.0	0.25	AIR-CHANGE	0.25	1244.8	22407.3
27MCNNE Perim Spc (G.NNE8)	1.0	EXT	0.0	0.88	24.8	0.25	AIR-CHANGE	0.10	3970.0	71460.2
27MCWNW Perim Spc (G.WNW9)	1.0	EXT	90.0	0.88	0.0	0.25	AIR-CHANGE	0.10	1060.8	19094.6

Extell 221 West 57th St

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27MCESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	0.88	3.4	0.25	AIR-CHANGE	0.12	853.4	15360.7
27MCSW Perim Spc (G.SW11)	1.0	EXT	0.0	0.88	1.9	0.25	AIR-CHANGE	0.30	466.4	8395.9
27MCSSW Perim Spc (G.SSW12)	1.0	EXT	0.0	0.88	2.8	0.25	AIR-CHANGE	0.19	694.2	12495.6
27MCSouth Perim Spc (G.S13)	1.0	EXT	-90.0	0.88	1.6	0.25	AIR-CHANGE	0.31	398.6	7174.4
ERU-27-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-27-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 28Ground Flr

28Core Spc (G.C1)	1.0	INT	0.0	0.00	0.2	0.24	AIR-CHANGE	0.00	183.6	2570.4
28Core Spc (G.C2)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
28Core Spc (G.C3)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
28Core Spc (G.C4)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
28NNW Perim Spc (G.NNW5)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1434.0	20075.9
28NNE Perim Spc (G.NNE6)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.04	1437.8	20129.9
28East Perim Spc (G.E7)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.10	986.2	13807.2
28ESE Perim Spc (G.ESE8)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
28South Perim Spc (G.S9)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.16	398.6	5580.1
28SSW Perim Spc (G.SSW10)	1.0	EXT	0.0	0.66	0.0	0.24	AIR-CHANGE	0.10	581.1	8135.4
28SW Perim Spc (G.SW11)	1.0	EXT	0.0	0.66	0.0	0.24	AIR-CHANGE	0.15	579.5	8113.6
28WNW Perim Spc (G.WNW12)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.04	1240.8	17371.3
28Plnm (G.13)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 2936Mid Flrs

2936Core Spc (M.C14)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1799.3
2936Core Spc (M.C15)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2286.6
2936Core Spc (M.C16)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1706.3
2936Core Spc (M.C17)	8.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6400.5
2936NNW Perim Spc (M.NNW18)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.12	1434.0	14053.1
2936NNE Perim Spc (M.NNE19)	8.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.06	1437.8	14090.9
2936East Perim Spc (M.E20)	8.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.15	986.2	9665.1
2936ESE Perim Spc (M.ESE21)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	8363.0
2936South Perim Spc (M.S22)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	398.6	3906.1
2936SSW Perim Spc (M.SSW23)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	581.1	5694.8
2936SW Perim Spc (M.SW24)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.21	579.5	5679.5
2936WNW Perim Spc (M.WNW25)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1240.8	12159.9
2936Plnm (M.26)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 3744Mid Flrs

3744Core Spc (M.C14)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1799.3
3744Core Spc (M.C15)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2286.6
3744Core Spc (M.C16)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1706.3
3744Core Spc (M.C17)	8.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6400.5
3744NNW Perim Spc (M.NNW18)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.12	1434.0	14053.1
3744NNE Perim Spc (M.NNE19)	8.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.06	1437.8	14090.9
3744East Perim Spc (M.E20)	8.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.15	986.2	9665.1
3744ESE Perim Spc (M.ESE21)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	8363.0
3744South Perim Spc (M.S22)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	398.6	3906.1
3744SSW Perim Spc (M.SSW23)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	581.1	5694.8
3744SW Perim Spc (M.SW24)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.21	579.5	5679.5
3744WNW Perim Spc (M.WNW25)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1240.8	12159.9
3744Plnm (M.26)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 45Top Flr

45Core Spc (T.C27)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
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45Core Spc (T.C28)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
45Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
45Core Spc (T.C30)	1.0	INT	0.0	0.99	0.7	0.00	AIR-CHANGE	0.00	653.1	9143.5
45NNW Perim Spc (T.NNW31)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1434.0	20075.9
45NNE Perim Spc (T.NNE32)	1.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.04	1437.8	20129.9
45East Perim Spc (T.E33)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.10	986.2	13807.2
45ESE Perim Spc (T.ESE34)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
45South Perim Spc (T.S35)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	398.6	5580.1
45SSW Perim Spc (T.SSW36)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.10	581.1	8135.4
45SW Perim Spc (T.SW37)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	579.5	8113.6
45WNW Perim Spc (T.WNW38)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.04	1240.8	17371.3
45Plnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 46MCTop Flr

46MCCore Spc (T.C27)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	183.6	3304.8
46MCCore Spc (T.C28)	1.0	INT	0.0	0.00	0.9	0.00	AIR-CHANGE	0.00	233.3	4199.9
46MCCore Spc (T.C29)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	174.1	3134.1
46MCCore Spc (T.C30)	1.0	INT	0.0	0.88	2.6	0.25	AIR-CHANGE	0.00	653.1	11756.0
46MCNNW Perim Spc (T.NNW31)	1.0	EXT	90.0	0.88	5.7	0.25	AIR-CHANGE	0.07	1434.0	25811.8
46MCNNE Perim Spc (T.NNE32)	1.0	EXT	90.0	0.88	5.8	0.25	AIR-CHANGE	0.03	1437.8	25881.3
46MCEast Perim Spc (T.E33)	1.0	EXT	180.0	0.88	3.9	0.25	AIR-CHANGE	0.08	986.2	17752.1
46MCESE Perim Spc (T.ESE34)	1.0	EXT	-90.0	0.88	3.4	0.25	AIR-CHANGE	0.05	853.4	15360.7
46MCSouth Perim Spc (T.S35)	1.0	EXT	-90.0	0.88	1.6	0.25	AIR-CHANGE	0.13	398.6	7174.4
46MCSSW Perim Spc (T.SSW36)	1.0	EXT	0.0	0.88	2.3	0.25	AIR-CHANGE	0.08	581.1	10459.8
46MCSSW Perim Spc (T.SW37)	1.0	EXT	0.0	0.88	2.3	0.25	AIR-CHANGE	0.11	579.5	10431.7
46MCWNW Perim Spc (T.WNW38)	1.0	EXT	90.0	0.88	5.0	0.25	AIR-CHANGE	0.03	1240.8	22334.6
46MCPlnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2
ERU-46-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-46-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 47Ground Flr

47NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
47West Perim Spc (G.W2)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
47SW Perim Spc (G.SW3)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
47SSW Perim Spc (G.SSW4)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
47SSE Perim Spc (G.SSE5)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
47ESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
47ENE Perim Spc (G.ENE7)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
47NE Perim Spc (G.NE8)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5
47Core Spc (G.C9)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
47Core Spc (G.C10)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
47Core Spc (G.C11)	1.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
47Core Spc (G.C12)	1.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
47Plnm (G.13)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 4856Mid Flrs

4856NNW Perim Spc (M.NNW14)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
4856West Perim Spc (M.W15)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
4856SW Perim Spc (M.SW16)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
4856SSW Perim Spc (M.SSW17)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
4856SSE Perim Spc (M.SSE18)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
4856ESE Perim Spc (M.ESE19)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
4856ENE Perim Spc (M.ENE20)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
4856NE Perim Spc (M.NE21)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5

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4856Core Spc (M.C22)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
4856Core Spc (M.C23)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
4856Core Spc (M.C24)	9.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
4856Core Spc (M.C25)	9.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
4856Plnm (M.26)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 5765Mid Flrs

5765NNW Perim Spc (M.NNW14)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
5765West Perim Spc (M.W15)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
5765SW Perim Spc (M.SW16)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
5765SSW Perim Spc (M.SSW17)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
5765SSE Perim Spc (M.SSE18)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
5765ESE Perim Spc (M.ESE19)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
5765ENE Perim Spc (M.ENE20)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
5765NE Perim Spc (M.NE21)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5
5765Core Spc (M.C22)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
5765Core Spc (M.C23)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
5765Core Spc (M.C24)	9.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
5765Core Spc (M.C25)	9.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
5765Plnm (M.26)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 66Top Flr

66NNW Perim Spc (T.NNW27)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.11	1163.6	16290.5
66West Perim Spc (T.W28)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1426.6	19971.8
66SW Perim Spc (T.SW29)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	419.4	5872.1
66SSW Perim Spc (T.SSW30)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.09	741.3	10377.8
66SSE Perim Spc (T.SSE31)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	508.4	7118.2
66ESE Perim Spc (T.ESE32)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.07	853.4	11947.2
66ENE Perim Spc (T.ENE33)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	643.5	9009.0
66NE Perim Spc (T.NE34)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.07	1210.8	16951.1
66Core Spc (T.C35)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
66Core Spc (T.C36)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	232.7	3257.6
66Core Spc (T.C37)	1.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.00	259.0	3625.9
66Core Spc (T.C38)	1.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.00	568.9	7964.2
66Plnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 67MCGround Flr

67MCNNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.88	4.7	0.25	AIR-CHANGE	0.16	1163.6	32581.1
67MCWest Perim Spc (G.W2)	1.0	EXT	0.0	0.88	5.7	0.25	AIR-CHANGE	0.09	1426.6	39943.7
67MC SW Perim Spc (G.SW3)	1.0	EXT	90.0	0.88	1.7	0.25	AIR-CHANGE	0.27	419.4	11744.2
67MCSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	0.88	3.0	0.25	AIR-CHANGE	0.13	741.3	20755.7
67MC SSE Perim Spc (G.SSE5)	1.0	EXT	-90.0	0.88	2.0	0.25	AIR-CHANGE	0.23	508.4	14236.5
67MC ESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.88	3.4	0.25	AIR-CHANGE	0.10	853.4	23894.4
67MCENE Perim Spc (G.ENE7)	1.0	EXT	90.0	0.88	2.6	0.25	AIR-CHANGE	0.21	643.5	18018.0
67MCNE Perim Spc (G.NE8)	1.0	EXT	-90.0	0.88	4.8	0.25	AIR-CHANGE	0.10	1210.8	33902.1
67MCCore Spc (G.C9)	1.0	INT	0.0	0.88	0.7	0.25	AIR-CHANGE	0.00	183.6	5140.8
67MCCore Spc (G.C10)	1.0	INT	0.0	0.88	0.9	0.25	AIR-CHANGE	0.00	232.7	6515.3
67MCCore Spc (G.C11)	1.0	INT	0.0	0.88	2.3	0.25	AIR-CHANGE	0.00	568.9	15928.4
67MCCore Spc (G.C12)	1.0	INT	0.0	0.88	1.0	0.25	AIR-CHANGE	0.00	259.0	7251.7
ERU-67-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-67-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 68Ground Flr (rev: 69)

68NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	987.4	13823.0
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Extell 221 West 57th St

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68NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.11	1277.7	17887.4
68ESE Perim Spc (G.ESE3)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.60	230.2	3223.4
68West Perim Spc (G.W4)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1351.7	18923.5
68SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
68South Perim Spc (G.S6)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	741.3	10377.8
68Core Spc (G.C7)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	232.7	3257.6
68Core Spc (G.C8)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
68ESE Perim Spc (G.ESE9)	1.0	EXT	-90.0	0.00	1.7	0.00	AIR-CHANGE	0.24	259.0	3625.9
68Core Spc (G.C10)	1.0	EXT	-90.0	0.99	0.6	0.00	AIR-CHANGE	0.00	568.9	7964.2
68Plnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.14	6222.8	12445.5

Spaces on floor: 68DBGround Flr (rev: 69db)

68DBWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	1800.6	54018.9
68DBPlnm (G.2)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.24	1800.6	3601.3

Spaces on floor: 69Ground Flr (rev: 70)

69NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	987.4	13823.0
69NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.11	1277.7	17887.4
69ESE Perim Spc (G.ESE3)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.60	230.2	3223.4
69West Perim Spc (G.W4)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1351.7	18923.5
69SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
69South Perim Spc (G.S6)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	741.3	10377.8
69Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	232.7	3257.6
69Core Spc (G.C8)	1.0	INT	0.0	0.00	1.0	0.00	AIR-CHANGE	0.00	183.6	2570.4
69ESE Perim Spc (G.ESE9)	1.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
69Core Spc (G.C10)	1.0	EXT	-90.0	0.99	3.2	0.24	AIR-CHANGE	0.00	568.9	7964.2
69Plnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.14	6222.8	12445.5

Spaces on floor: 70Ground Flr (rev: 68)

70NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
70West Perim Spc (G.W2)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
70SW Perim Spc (G.SW3)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
70South Perim Spc (G.S4)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
70NE Perim Spc (G.NE5)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
70ENE Perim Spc (G.ENE6)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
70SE Perim Spc (G.SE7)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
70Core Spc (G.C8)	1.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
70Core Spc (G.C9)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
70Core Spc (G.C10)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1
70Core Spc (G.C11)	1.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
70Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 7179Mid Flrs

7179NNW Perim Spc (M.NNW13)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
7179West Perim Spc (M.W14)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
7179SW Perim Spc (M.SW15)	9.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
7179South Perim Spc (M.S16)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
7179NE Perim Spc (M.NE17)	9.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
7179ENE Perim Spc (M.ENE18)	9.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
7179SE Perim Spc (M.SE19)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
7179Core Spc (M.C20)	9.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
7179Core Spc (M.C21)	9.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
7179Core Spc (M.C22)	9.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1

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7179Core Spc (M.C23)	9.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
7179Plnm (M.24)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 8087Mid Flrs

8087NNW Perim Spc (M.NNW13)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
8087West Perim Spc (M.W14)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
8087SW Perim Spc (M.SW15)	8.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
8087South Perim Spc (M.S16)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
8087NE Perim Spc (M.NE17)	8.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
8087ENE Perim Spc (M.ENE18)	8.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
8087SE Perim Spc (M.SE19)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
8087Core Spc (M.C20)	8.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
8087Core Spc (M.C21)	8.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
8087Core Spc (M.C22)	8.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1
8087Core Spc (M.C23)	8.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
8087Plnm (M.24)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 88Top Flr

88NNW Perim Spc (T.NNW25)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.12	1017.3	14241.9
88West Perim Spc (T.W26)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1321.8	18504.6
88SW Perim Spc (T.SW27)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.19	390.4	5465.3
88South Perim Spc (T.S28)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.13	922.4	12913.9
88NE Perim Spc (T.NE29)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.18	512.2	7170.6
88ENE Perim Spc (T.ENE30)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1385.7	19399.1
88SE Perim Spc (T.SE31)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.10	860.7	12050.5
88Core Spc (T.C32)	1.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.00	184.6	2584.7
88Core Spc (T.C33)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.00	233.3	3266.6
88Core Spc (T.C34)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
88Core Spc (T.C35)	1.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
88Plnm (T.36)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 89Ground Flr (rev: 89 + 91)

89NNW Perim Spc (G.NNW1)	2.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
89NE Perim Spc (G.NE2)	2.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
89ESE Perim Spc (G.ESE3)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	717.1	10038.9
89West Perim Spc (G.W4)	2.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1397.4	19564.2
89SW Perim Spc (G.SW5)	2.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
89South Perim Spc (G.S6)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	1002.5	14035.1
89Core Spc (G.C7)	2.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
89Core Spc (G.C8)	2.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
89ESE Perim Spc (G.ESE9)	2.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
89Core Spc (G.C10)	2.0	EXT	-90.0	0.99	3.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
89Plnm (G.11)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	6207.2	12414.4

Spaces on floor: 89DBGround Flr (rev: 89 + 91)

89DBWNW Perim Spc (G.WNW1)	2.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.25	1449.3	45651.4
89DBPlnm (G.2)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.25	1449.3	2898.5

Spaces on floor: 90Ground Flr (rev: 90 + 92)

90NNW Perim Spc (G.NNW1)	2.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
90NE Perim Spc (G.NE2)	2.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
90ESE Perim Spc (G.ESE3)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	717.1	10038.9

90West Perim Spc (G.W4)	2.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1397.4	19564.2
90SW Perim Spc (G.SW5)	2.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
90South Perim Spc (G.S6)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	1002.5	14035.1
90Core Spc (G.C7)	2.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
90Core Spc (G.C8)	2.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
90ESE Perim Spc (G.ESE9)	2.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
90Core Spc (G.C10)	2.0	EXT	-90.0	0.99	3.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
90Plnm (G.11)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	6207.2	12414.4

Spaces on floor: 91Ground Flr (rev: 93)

91NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
91NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
91Core Spc (G.C3)	1.0	INT	180.0	0.66	0.0	0.24	AIR-CHANGE	0.00	717.1	10038.9
91West Perim Spc (G.W4)	1.0	EXT	0.0	0.88	5.6	0.25	AIR-CHANGE	0.08	1397.4	19564.2
91SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.88	1.6	0.25	AIR-CHANGE	0.24	390.4	5465.3
91South Perim Spc (G.S6)	1.0	EXT	-90.0	0.88	4.0	0.25	AIR-CHANGE	0.16	1002.5	14035.1
91Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
91Core Spc (G.C8)	1.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
91Core Spc (G.C9)	1.0	INT	0.0	0.00	1.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
91Core Spc (G.C10)	1.0	INT	0.0	0.99	3.2	0.25	AIR-CHANGE	0.00	569.1	7967.1
91ESE Perim Spc (G.ESE11)	1.0	EXT	90.0	0.88	5.8	0.25	AIR-CHANGE	0.15	1449.3	20289.5
91Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9
ERU-91-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 92Ground Flr (rev: 94)

92NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
92NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
92Core Spc (G.C3)	1.0	INT	180.0	0.66	0.0	0.24	AIR-CHANGE	0.00	717.1	10038.9
92West Perim Spc (G.W4)	1.0	EXT	0.0	0.88	0.0	0.25	AIR-CHANGE	0.08	1397.4	19564.2
92SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.88	1.6	0.25	AIR-CHANGE	0.24	390.4	5465.3
92South Perim Spc (G.S6)	1.0	EXT	-90.0	0.88	4.0	0.25	AIR-CHANGE	0.16	1002.5	14035.1
92Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
92Core Spc (G.C8)	1.0	INT	0.0	0.00	1.1	0.25	AIR-CHANGE	0.00	184.6	2584.7
92Core Spc (G.C9)	1.0	INT	0.0	0.00	1.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
92Core Spc (G.C10)	1.0	INT	0.0	1.00	3.2	0.25	AIR-CHANGE	0.00	569.1	7967.1
92ESE Perim Spc (G.ESE11)	1.0	EXT	90.0	0.88	5.8	0.25	AIR-CHANGE	0.15	1449.3	20289.5
92Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 93MER

93MERSpace	2.0	EXT	0.0	0.88	6.9	0.25	NO-INFILT.	0.00	6889.0	124002.0
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BUILDING TOTALS					-----				-----	-----
					7870.0				2096481.0	20073558.0



NUMBER OF EXTERIOR SURFACES 857
(U-VALUE INCLUDES OUTSIDE FILM; WINDOW INCLUDES FRAME AND CURB, IF DEFINED)

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
68DBNNW Wall (G.WNW1.E5)	0.000	0.00	0.268	366.00	0.268	366.00	NORTH
in space: 68DBNNW Perim Spc (G.WNW1)							
68DBNNW Wall (G.2.E11)	0.000	0.00	0.268	24.40	0.268	24.40	NORTH
in space: 68DBPlnm (G.2)							
Exterior Wall 885	0.000	0.00	0.268	2988.00	0.268	2988.00	NORTH
in space: 93MERSpace							
GNNE Wall (G.NNE3.E5)	0.000	0.00	0.307	1290.08	0.307	1290.08	NORTH
in space: GNNE Perim Spc (G.NNE3)							
6MCNNE Wall (G.N2.E5)	0.000	0.00	0.307	3767.56	0.307	3767.56	NORTH
in space: 6MCNorth Perim Spc (G.N2)							
GNNE Wall (G.18.E29)	0.000	0.00	0.268	42.10	0.268	42.10	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E31)	0.000	0.00	0.268	137.60	0.268	137.60	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E32)	0.000	0.00	0.268	162.40	0.268	162.40	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E34)	0.000	0.00	0.268	172.00	0.268	172.00	NORTH
in space: GPlnm (G.18)							
1MNNE Wall (G.NW1.E2)	0.572	108.00	0.268	12.00	0.542	120.00	NORTH
in space: 1MNW Perim Spc (G.NW1)							
1MNNE Wall (G.N2.E3)	0.000	0.00	0.307	837.20	0.307	837.20	NORTH
in space: 1MNNorth Perim Spc (G.N2)							
1MNNE Wall (G.NNE6.E11)	0.572	1114.92	0.268	123.88	0.542	1238.80	NORTH
in space: 1MNNE Perim Spc (G.NNE6)							
25NNE Wall (G.NW1.E2)	0.572	249.38	0.268	13.13	0.557	262.50	NORTH
in space: 25NW Perim Spc (G.NW1)							
25NNE Wall (G.N2.E3)	0.000	0.00	0.307	1831.38	0.307	1831.38	NORTH
in space: 25North Perim Spc (G.N2)							
25NNE Wall (G.NNE11.E14)	0.572	1807.98	0.268	95.15	0.557	1903.13	NORTH
in space: 25NNE Perim Spc (G.NNE11)							
Exterior Wall 888	0.572	841.00	0.268	59.00	0.552	900.00	NORTH
in space: 25NNE Perim Spc (G.NNE11)							
25NNE Wall (G.NNE12.E15)	0.572	766.41	0.268	40.34	0.557	806.75	NORTH
in space: 25NNE Perim Spc (G.NNE12)							
25NNE Wall (M.NW17.E17)	0.572	498.75	0.268	26.25	0.557	525.00	NORTH
in space: 25NW Perim Spc (M.NW17)							
25NNE Wall (M.N18.E18)	0.000	0.00	0.307	3662.75	0.307	3662.75	NORTH
in space: 25North Perim Spc (M.N18)							
25NNE Wall (M.NNE27.E29)	0.572	3615.96	0.268	190.29	0.557	3806.25	NORTH
in space: 25NNE Perim Spc (M.NNE27)							
Exterior Wall 889	0.572	1682.00	0.268	118.00	0.552	1800.00	NORTH
in space: 25NNE Perim Spc (M.NNE27)							
25NNE Wall (M.NNE28.E30)	0.572	1532.83	0.268	80.67	0.557	1613.50	NORTH
in space: 25NNE Perim Spc (M.NNE28)							
25NNE Wall (T.NW33.E32)	0.572	249.38	0.268	13.13	0.557	262.50	NORTH
in space: 25NW Perim Spc (T.NW33)							
25NNE Wall (T.N34.E33)	0.000	0.00	0.307	1831.38	0.307	1831.38	NORTH
in space: 25North Perim Spc (T.N34)							

(CONTINUED)						
25NNE Wall (T.NNE43.E44)	0.572	1807.98	0.268	95.15	0.557	1903.13 NORTH
in space: 25NNE Perim Spc (T.NNE43)						
Exterior Wall 890	0.572	841.00	0.268	59.00	0.552	900.00 NORTH
in space: 25NNE Perim Spc (T.NNE43)						
25NNE Wall (T.NNE44.E45)	0.572	766.41	0.268	40.34	0.557	806.75 NORTH
in space: 25NNE Perim Spc (T.NNE44)						
GNNE Wall (G.NW1.E2)	0.572	202.30	0.268	7.70	0.561	210.00 NORTH
in space: GNW Perim Spc (G.NW1)						
6MCNNE Wall (G.NW3.E7)	0.000	0.00	0.268	540.00	0.268	540.00 NORTH
in space: 6MCNW Perim Spc (G.NW3)						
6MCNNE Wall (G.NNE4.E8)	0.000	0.00	0.268	5574.60	0.268	5574.60 NORTH
in space: 6MCNNE Perim Spc (G.NNE4)						
6MCNNE Wall (G.11.E14)	0.000	0.00	0.268	339.70	0.268	339.70 NORTH
in space: 6MCPlnm (G.11)						
6MCNNE Wall (G.11.E16)	0.000	0.00	0.268	209.30	0.268	209.30 NORTH
in space: 6MCPlnm (G.11)						
Exterior Wall 895	0.000	0.00	0.268	1080.00	0.268	1080.00 NORTH
in space: 6MC Top Spc						
8ANNE Wall (G.NW1.E2)	0.000	0.00	0.268	387.60	0.268	387.60 NORTH
in space: 8ANW Perim Spc (G.NW1)						
8ANNE Wall (G.WSW2.E6)	0.373	262.50	0.268	1543.50	0.283	1806.00 NORTH
in space: 8AWSW Perim Spc (G.WSW2)						
8ANNE Wall (G.NNE3.E8)	0.000	0.00	0.268	204.00	0.268	204.00 NORTH
in space: 8ANNE Perim Spc (G.NNE3)						
8ANNE Wall (G.NNE5.E9)	0.000	0.00	0.268	429.60	0.268	429.60 NORTH
in space: 8ANNE Perim Spc (G.NNE5)						
8ANNE Wall (G.NNE7.E10)	0.000	0.00	0.268	252.00	0.268	252.00 NORTH
in space: 8ANNE Perim Spc (G.NNE7)						
8ANNE Wall (G.ESE12.E17)	0.000	0.00	0.268	109.20	0.268	109.20 NORTH
in space: 8AESE Perim Spc (G.ESE12)						
8MCNNE Wall (G.NNE1.E3)	0.000	0.00	0.268	597.00	0.268	597.00 NORTH
in space: 8MANNE Perim Spc (G.NNE1)						
8MCNNE Wall (G.SSW2.E6)	0.000	0.00	0.268	846.00	0.268	846.00 NORTH
in space: 8MASSW Perim Spc (G.SSW2)						
10ANNE Wall (G.N8.E12)	0.373	936.88	0.268	401.52	0.342	1338.40 NORTH
in space: 10ANorth Perim Spc (G.N8)						
10ANNE Wall (G.ENE9.E13)	0.373	365.05	0.268	156.45	0.342	521.50 NORTH
in space: 10AENE Perim Spc (G.ENE9)						
10ANNE Wall (G.10.E20)	0.000	0.00	0.268	5535.86	0.268	5535.86 NORTH
in space: 10APlnm (G.10)						
10MNNE Wall (G.N8.E12)	0.000	0.00	0.268	5576.35	0.268	5576.35 NORTH
in space: 10MNorth Perim Spc (G.N8)						
10MNNE Wall (G.ENE9.E13)	0.000	0.00	0.268	2172.79	0.268	2172.79 NORTH
in space: 10MENE Perim Spc (G.ENE9)						
11MCNNE Wall (G.NNE1.E4)	0.000	0.00	0.268	3807.41	0.268	3807.41 NORTH
in space: 11MCNNE Perim Spc (G.NNE1)						
11DBNNE Wall (G.WNW1.E4)	0.000	0.00	0.268	2126.45	0.268	2126.45 NORTH
in space: 11DBWNW Perim Spc (G.WNW1)						
1519NNE Wall (G.WNW6.E3)	0.373	856.24	0.268	111.26	0.361	967.50 NORTH
in space: 1519WNW Perim Spc (G.WNW6)						
1519NNE Wall (G.NNE7.E4)	0.373	2730.00	0.268	355.50	0.361	3085.50 NORTH
in space: 1519NNE Perim Spc (G.NNE7)						
1519NNE Wall (G.E8.E6)	0.408	750.00	0.268	16.50	0.405	766.50 NORTH
in space: 1519East Perim Spc (G.E8)						
1519NNE Wall (G.14.E23)	0.000	0.00	0.268	867.51	0.268	867.51 NORTH
in space: 1519Plnm (G.14)						
1519NNE Wall (M.WNW20.E26)	0.373	1427.06	0.268	185.44	0.361	1612.50 NORTH
in space: 1519WNW Perim Spc (M.WNW20)						

(CONTINUED)							
1519NNE Wall (M.NNE21.E27)	0.373	4550.00	0.268	592.50	0.361	5142.50	NORTH
in space: 1519NNE Perim Spc (M.NNE21)							
1519NNE Wall (M.E22.E29)	0.408	1250.00	0.268	27.50	0.405	1277.50	NORTH
in space: 1519East Perim Spc (M.E22)							
1519NNE Wall (M.28.E46)	0.000	0.00	0.268	1445.85	0.268	1445.85	NORTH
in space: 1519Plnm (M.28)							
1519NNE Wall (T.WNW34.E49)	0.373	285.41	0.268	166.09	0.334	451.50	NORTH
in space: 1519WNW Perim Spc (T.WNW34)							
1519NNE Wall (T.NNE35.E50)	0.373	910.00	0.268	529.90	0.334	1439.90	NORTH
in space: 1519NNE Perim Spc (T.NNE35)							
1519NNE Wall (T.E36.E52)	0.408	250.00	0.268	107.70	0.366	357.70	NORTH
in space: 1519East Perim Spc (T.E36)							
1519NNE Wall (T.42.E69)	0.000	0.00	0.268	289.17	0.268	289.17	NORTH
in space: 1519Plnm (T.42)							
2026NNE Wall (G.E6.E1)	0.408	250.00	0.268	107.70	0.366	357.70	NORTH
in space: 2026East Perim Spc (G.E6)							
2026NNE Wall (G.WNW7.E5)	0.373	285.41	0.268	166.09	0.334	451.50	NORTH
in space: 2026WNW Perim Spc (G.WNW7)							
2026NNE Wall (G.NNE8.E6)	0.373	910.00	0.268	529.90	0.334	1439.90	NORTH
in space: 2026NNE Perim Spc (G.NNE8)							
2026NNE Wall (G.14.E20)	0.000	0.00	0.268	289.17	0.268	289.17	NORTH
in space: 2026Plnm (G.14)							
2026NNE Wall (M.E20.E21)	0.408	1250.00	0.268	27.50	0.405	1277.50	NORTH
in space: 2026East Perim Spc (M.E20)							
2026NNE Wall (M.WNW21.E25)	0.373	1427.06	0.268	185.44	0.361	1612.50	NORTH
in space: 2026WNW Perim Spc (M.WNW21)							
2026NNE Wall (M.NNE22.E26)	0.373	4550.00	0.268	592.50	0.361	5142.50	NORTH
in space: 2026NNE Perim Spc (M.NNE22)							
2026NNE Wall (M.28.E40)	0.000	0.00	0.268	1445.85	0.268	1445.85	NORTH
in space: 2026Plnm (M.28)							
2026NNE Wall (T.E34.E41)	0.408	250.00	0.268	107.70	0.366	357.70	NORTH
in space: 2026East Perim Spc (T.E34)							
2026NNE Wall (T.WNW35.E45)	0.373	285.41	0.268	166.09	0.334	451.50	NORTH
in space: 2026WNW Perim Spc (T.WNW35)							
2026NNE Wall (T.NNE36.E46)	0.373	910.00	0.268	529.90	0.334	1439.90	NORTH
in space: 2026NNE Perim Spc (T.NNE36)							
2026NNE Wall (T.42.E60)	0.000	0.00	0.268	289.17	0.268	289.17	NORTH
in space: 2026Plnm (T.42)							
27MCNNE Wall (G.E6.E1)	0.000	0.00	0.268	459.90	0.268	459.90	NORTH
in space: 27MCEast Perim Spc (G.E6)							
27MCNNE Wall (G.WNW7.E5)	0.000	0.00	0.268	580.50	0.268	580.50	NORTH
in space: 27MCWNW Perim Spc (G.WNW7)							
27MCNNE Wall (G.NNE8.E6)	0.000	0.00	0.268	1851.30	0.268	1851.30	NORTH
in space: 27MCNNE Perim Spc (G.NNE8)							
28NNE Wall (G.NNW5.E2)	0.373	328.78	0.268	191.32	0.334	520.10	NORTH
in space: 28NNW Perim Spc (G.NNW5)							
28NNE Wall (G.NNE6.E3)	0.373	329.66	0.268	191.84	0.334	521.50	NORTH
in space: 28NNE Perim Spc (G.NNE6)							
28NNE Wall (G.E7.E4)	0.408	245.00	0.268	112.70	0.364	357.70	NORTH
in space: 28East Perim Spc (G.E7)							
28NNE Wall (G.13.E16)	0.000	0.00	0.268	199.90	0.268	199.90	NORTH
in space: 28Plnm (G.13)							
2936NNE Wall (M.NNW18.E18)	0.373	2630.22	0.268	282.34	0.363	2912.56	NORTH
in space: 2936NNW Perim Spc (M.NNW18)							
2936NNE Wall (M.NNE19.E19)	0.373	2637.30	0.268	283.10	0.363	2920.40	NORTH
in space: 2936NNE Perim Spc (M.NNE19)							
2936NNE Wall (M.E20.E20)	0.408	1960.00	0.268	43.12	0.405	2003.12	NORTH
in space: 2936East Perim Spc (M.E20)							

(CONTINUED)							
2936NNE Wall (M.26.E32)	0.000	0.00	0.268	1599.20	0.268	1599.20	NORTH
in space: 2936Plnm (M.26)							
3744NNE Wall (M.NNW18.E18)	0.373	2630.22	0.268	282.34	0.363	2912.56	NORTH
in space: 3744NNW Perim Spc (M.NNW18)							
3744NNE Wall (M.NNE19.E19)	0.373	2637.30	0.268	283.10	0.363	2920.40	NORTH
in space: 3744NNE Perim Spc (M.NNE19)							
3744NNE Wall (M.E20.E20)	0.408	1960.00	0.268	43.12	0.405	2003.12	NORTH
in space: 3744East Perim Spc (M.E20)							
3744NNE Wall (M.26.E32)	0.000	0.00	0.268	1599.20	0.268	1599.20	NORTH
in space: 3744Plnm (M.26)							
45NNE Wall (T.NNW31.E34)	0.373	328.78	0.268	191.32	0.334	520.10	NORTH
in space: 45NNW Perim Spc (T.NNW31)							
45NNE Wall (T.NNE32.E35)	0.373	329.66	0.268	191.84	0.334	521.50	NORTH
in space: 45NNE Perim Spc (T.NNE32)							
45NNE Wall (T.E33.E36)	0.408	245.00	0.268	112.70	0.364	357.70	NORTH
in space: 45East Perim Spc (T.E33)							
45NNE Wall (T.39.E48)	0.000	0.00	0.268	199.90	0.268	199.90	NORTH
in space: 45Plnm (T.39)							
46MCNNE Wall (T.NNW31.E34)	0.000	0.00	0.268	668.70	0.268	668.70	NORTH
in space: 46MCNNW Perim Spc (T.NNW31)							
46MCNNE Wall (T.NNE32.E35)	0.000	0.00	0.268	670.50	0.268	670.50	NORTH
in space: 46MCNNE Perim Spc (T.NNE32)							
46MCNNE Wall (T.E33.E36)	0.000	0.00	0.268	459.90	0.268	459.90	NORTH
in space: 46MCEast Perim Spc (T.E33)							
46MCNNE Wall (T.39.E48)	0.000	0.00	0.268	199.90	0.268	199.90	NORTH
in space: 46MCPlnm (T.39)							
47NNE Wall (G.NNW1.E2)	0.373	259.20	0.268	32.40	0.361	291.60	NORTH
in space: 47NNW Perim Spc (G.NNW1)							
47NNE Wall (G.NNW1.E4)	0.373	97.44	0.268	12.18	0.361	109.62	NORTH
in space: 47NNW Perim Spc (G.NNW1)							
47NNE Wall (G.ENE7.E15)	0.406	270.00	0.268	27.00	0.393	297.00	NORTH
in space: 47ENE Perim Spc (G.ENE7)							
47NNE Wall (G.NE8.E17)	0.373	338.88	0.268	42.36	0.361	381.24	NORTH
in space: 47NE Perim Spc (G.NE8)							
47NNE Wall (G.13.E23)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 47Plnm (G.13)							
47NNE Wall (G.13.E25)	0.000	0.00	0.268	124.60	0.268	124.60	NORTH
in space: 47Plnm (G.13)							
47NNE Wall (G.13.E27)	0.000	0.00	0.268	20.30	0.268	20.30	NORTH
in space: 47Plnm (G.13)							
4856NNE Wall (M.NNW14.E29)	0.373	2332.80	0.268	291.60	0.361	2624.40	NORTH
in space: 4856NNW Perim Spc (M.NNW14)							
4856NNE Wall (M.NNW14.E31)	0.373	876.96	0.268	109.62	0.361	986.58	NORTH
in space: 4856NNW Perim Spc (M.NNW14)							
4856NNE Wall (M.ENE20.E41)	0.406	2429.99	0.268	243.01	0.393	2673.00	NORTH
in space: 4856ENE Perim Spc (M.ENE20)							
4856NNE Wall (M.NE21.E43)	0.373	3049.92	0.268	381.24	0.361	3431.16	NORTH
in space: 4856NE Perim Spc (M.NE21)							
4856NNE Wall (M.26.E49)	0.000	0.00	0.268	495.00	0.268	495.00	NORTH
in space: 4856Plnm (M.26)							
4856NNE Wall (M.26.E51)	0.000	0.00	0.268	1121.40	0.268	1121.40	NORTH
in space: 4856Plnm (M.26)							
4856NNE Wall (M.26.E53)	0.000	0.00	0.268	182.70	0.268	182.70	NORTH
in space: 4856Plnm (M.26)							
5765NNE Wall (M.NNW14.E29)	0.373	2332.80	0.268	291.60	0.361	2624.40	NORTH
in space: 5765NNW Perim Spc (M.NNW14)							
5765NNE Wall (M.NNW14.E31)	0.373	876.96	0.268	109.62	0.361	986.58	NORTH
in space: 5765NNW Perim Spc (M.NNW14)							

(CONTINUED)						
5765NNE Wall (M.ENE20.E41)	0.406	2429.99	0.268	243.01	0.393	2673.00 NORTH
in space: 5765ENE Perim Spc (M.ENE20)						
5765NNE Wall (M.NE21.E43)	0.373	3049.92	0.268	381.24	0.361	3431.16 NORTH
in space: 5765NE Perim Spc (M.NE21)						
5765NNE Wall (M.26.E49)	0.000	0.00	0.268	495.00	0.268	495.00 NORTH
in space: 5765Plnm (M.26)						
5765NNE Wall (M.26.E51)	0.000	0.00	0.268	1121.40	0.268	1121.40 NORTH
in space: 5765Plnm (M.26)						
5765NNE Wall (M.26.E53)	0.000	0.00	0.268	182.70	0.268	182.70 NORTH
in space: 5765Plnm (M.26)						
66NNE Wall (T.NNW27.E55)	0.373	259.20	0.268	118.80	0.340	378.00 NORTH
in space: 66NNW Perim Spc (T.NNW27)						
66NNE Wall (T.NNW27.E57)	0.373	97.44	0.268	44.66	0.340	142.10 NORTH
in space: 66NNW Perim Spc (T.NNW27)						
66NNE Wall (T.ENE33.E67)	0.406	270.00	0.268	115.00	0.365	385.00 NORTH
in space: 66ENE Perim Spc (T.ENE33)						
66NNE Wall (T.NE34.E69)	0.373	338.88	0.268	155.32	0.340	494.20 NORTH
in space: 66NE Perim Spc (T.NE34)						
66NNE Wall (T.39.E75)	0.000	0.00	0.268	55.00	0.268	55.00 NORTH
in space: 66Plnm (T.39)						
66NNE Wall (T.39.E77)	0.000	0.00	0.268	124.60	0.268	124.60 NORTH
in space: 66Plnm (T.39)						
66NNE Wall (T.39.E79)	0.000	0.00	0.268	20.30	0.268	20.30 NORTH
in space: 66Plnm (T.39)						
67MCNNE Wall (G.NNW1.E2)	0.000	0.00	0.268	756.00	0.268	756.00 NORTH
in space: 67MCNNW Perim Spc (G.NNW1)						
67MCNNE Wall (G.NNW1.E4)	0.000	0.00	0.268	284.20	0.268	284.20 NORTH
in space: 67MCNNW Perim Spc (G.NNW1)						
67MCNNE Wall (G.ENE7.E14)	0.000	0.00	0.268	770.00	0.268	770.00 NORTH
in space: 67MCENE Perim Spc (G.ENE7)						
67MCNNE Wall (G.NE8.E16)	0.000	0.00	0.268	988.40	0.268	988.40 NORTH
in space: 67MCNE Perim Spc (G.NE8)						
68NNE Wall (G.NNW1.E2)	0.373	230.40	0.268	38.40	0.358	268.80 NORTH
in space: 68NNW Perim Spc (G.NNW1)						
68NNE Wall (G.NNW1.E4)	0.373	192.00	0.268	32.00	0.358	224.00 NORTH
in space: 68NNW Perim Spc (G.NNW1)						
68NNE Wall (G.NE2.E6)	0.373	447.00	0.268	74.50	0.358	521.50 NORTH
in space: 68NE Perim Spc (G.NE2)						
68NNE Wall (G.ESE3.E12)	0.401	350.00	0.268	35.00	0.389	385.00 NORTH
in space: 68ESE Perim Spc (G.ESE3)						
68NNE Wall (G.11.E30)	0.000	0.00	0.268	55.00	0.268	55.00 NORTH
in space: 68Plnm (G.11)						
68NNE Wall (G.11.E32)	0.000	0.00	0.268	112.90	0.268	112.90 NORTH
in space: 68Plnm (G.11)						
68NNE Wall (G.11.E34)	0.000	0.00	0.268	32.00	0.268	32.00 NORTH
in space: 68Plnm (G.11)						
68DBNNE Wall (G.WNW1.E4)	0.000	0.00	0.268	105.00	0.268	105.00 NORTH
in space: 68DBWNW Perim Spc (G.WNW1)						
GNNE Wall (G.E6.E10)	0.572	304.17	0.268	11.48	0.561	315.65 NORTH
in space: GEast Perim Spc (G.E6)						
68DBNNE Wall (G.WNW1.E6)	0.000	0.00	0.268	456.00	0.268	456.00 NORTH
in space: 68DBWNW Perim Spc (G.WNW1)						
68DBNNE Wall (G.2.E10)	0.000	0.00	0.268	7.00	0.268	7.00 NORTH
in space: 68DBPlnm (G.2)						
GNNE Wall (G.NNE7.E11)	0.572	715.28	0.268	27.22	0.561	742.50 NORTH
in space: GNNE Perim Spc (G.NNE7)						
68DBNNE Wall (G.2.E12)	0.000	0.00	0.268	30.40	0.268	30.40 NORTH
in space: 68DBPlnm (G.2)						

(CONTINUED)						
69NNE Wall (G.NNW1.E2)	0.373	230.40	0.268	38.40	0.358	268.80 NORTH
in space: 69NNW Perim Spc (G.NNW1)						
69NNE Wall (G.NNW1.E4)	0.373	192.00	0.268	32.00	0.358	224.00 NORTH
in space: 69NNW Perim Spc (G.NNW1)						
69NNE Wall (G.NE2.E6)	0.373	447.00	0.268	74.50	0.358	521.50 NORTH
in space: 69NE Perim Spc (G.NE2)						
69NNE Wall (G.ESE3.E12)	0.401	350.00	0.268	35.00	0.389	385.00 NORTH
in space: 69ESE Perim Spc (G.ESE3)						
69NNE Wall (G.11.E30)	0.000	0.00	0.268	55.00	0.268	55.00 NORTH
in space: 69Plnm (G.11)						
69NNE Wall (G.11.E32)	0.000	0.00	0.268	112.90	0.268	112.90 NORTH
in space: 69Plnm (G.11)						
69NNE Wall (G.11.E34)	0.000	0.00	0.268	32.00	0.268	32.00 NORTH
in space: 69Plnm (G.11)						
70NNE Wall (G.NNW1.E2)	0.373	153.60	0.268	19.20	0.361	172.80 NORTH
in space: 70NNW Perim Spc (G.NNW1)						
70NNE Wall (G.NNW1.E4)	0.373	184.32	0.268	23.04	0.361	207.36 NORTH
in space: 70NNW Perim Spc (G.NNW1)						
70NNE Wall (G.NE5.E12)	0.373	357.60	0.268	44.70	0.361	402.30 NORTH
in space: 70NE Perim Spc (G.NE5)						
70NNE Wall (G.ENE6.E13)	0.406	270.00	0.268	27.00	0.393	297.00 NORTH
in space: 70ENE Perim Spc (G.ENE6)						
70NNE Wall (G.12.E24)	0.000	0.00	0.268	55.00	0.268	55.00 NORTH
in space: 70Plnm (G.12)						
70NNE Wall (G.12.E26)	0.000	0.00	0.268	112.90	0.268	112.90 NORTH
in space: 70Plnm (G.12)						
70NNE Wall (G.12.E28)	0.000	0.00	0.268	32.00	0.268	32.00 NORTH
in space: 70Plnm (G.12)						
7179NNE Wall (M.NNW13.E30)	0.373	1382.40	0.268	172.80	0.361	1555.20 NORTH
in space: 7179NNW Perim Spc (M.NNW13)						
7179NNE Wall (M.NNW13.E32)	0.373	1658.88	0.268	207.36	0.361	1866.24 NORTH
in space: 7179NNW Perim Spc (M.NNW13)						
7179NNE Wall (M.NE17.E40)	0.373	3218.40	0.268	402.30	0.361	3620.70 NORTH
in space: 7179NE Perim Spc (M.NE17)						
7179NNE Wall (M.ENE18.E41)	0.406	2429.99	0.268	243.01	0.393	2673.00 NORTH
in space: 7179ENE Perim Spc (M.ENE18)						
7179NNE Wall (M.24.E52)	0.000	0.00	0.268	495.00	0.268	495.00 NORTH
in space: 7179Plnm (M.24)						
7179NNE Wall (M.24.E54)	0.000	0.00	0.268	1016.10	0.268	1016.10 NORTH
in space: 7179Plnm (M.24)						
7179NNE Wall (M.24.E56)	0.000	0.00	0.268	288.00	0.268	288.00 NORTH
in space: 7179Plnm (M.24)						
8087NNE Wall (M.NNW13.E30)	0.373	1228.80	0.268	153.60	0.361	1382.40 NORTH
in space: 8087NNW Perim Spc (M.NNW13)						
8087NNE Wall (M.NNW13.E32)	0.373	1474.56	0.268	184.32	0.361	1658.88 NORTH
in space: 8087NNW Perim Spc (M.NNW13)						
8087NNE Wall (M.NE17.E40)	0.373	2860.80	0.268	357.60	0.361	3218.40 NORTH
in space: 8087NE Perim Spc (M.NE17)						
8087NNE Wall (M.ENE18.E41)	0.406	2159.99	0.268	216.01	0.393	2376.00 NORTH
in space: 8087ENE Perim Spc (M.ENE18)						
8087NNE Wall (M.24.E52)	0.000	0.00	0.268	440.00	0.268	440.00 NORTH
in space: 8087Plnm (M.24)						
8087NNE Wall (M.24.E54)	0.000	0.00	0.268	903.20	0.268	903.20 NORTH
in space: 8087Plnm (M.24)						
8087NNE Wall (M.24.E56)	0.000	0.00	0.268	256.00	0.268	256.00 NORTH
in space: 8087Plnm (M.24)						
88NNE Wall (T.NNW25.E58)	0.373	153.60	0.268	70.40	0.340	224.00 NORTH
in space: 88NNW Perim Spc (T.NNW25)						

(CONTINUED)						
88NNE Wall (T.NNW25.E60)	0.373	184.32	0.268	84.48	0.340	268.80 NORTH
in space: 88NNW Perim Spc (T.NNW25)						
88NNE Wall (T.NE29.E68)	0.373	357.60	0.268	163.90	0.340	521.50 NORTH
in space: 88NE Perim Spc (T.NE29)						
88NNE Wall (T.ENE30.E69)	0.406	270.00	0.268	115.00	0.365	385.00 NORTH
in space: 88ENE Perim Spc (T.ENE30)						
88NNE Wall (T.36.E80)	0.000	0.00	0.268	55.00	0.268	55.00 NORTH
in space: 88Plnm (T.36)						
88NNE Wall (T.36.E82)	0.000	0.00	0.268	112.90	0.268	112.90 NORTH
in space: 88Plnm (T.36)						
88NNE Wall (T.36.E84)	0.000	0.00	0.268	32.00	0.268	32.00 NORTH
in space: 88Plnm (T.36)						
89NNE Wall (G.NNW1.E2)	0.373	460.80	0.268	76.80	0.358	537.60 NORTH
in space: 89NNW Perim Spc (G.NNW1)						
89NNE Wall (G.NNW1.E4)	0.373	384.00	0.268	64.00	0.358	448.00 NORTH
in space: 89NNW Perim Spc (G.NNW1)						
89NNE Wall (G.NE2.E6)	0.373	894.00	0.268	149.00	0.358	1043.00 NORTH
in space: 89NE Perim Spc (G.NE2)						
89NNE Wall (G.S6.E13)	0.000	0.00	0.268	284.20	0.268	284.20 NORTH
in space: 89South Perim Spc (G.S6)						
89NNE Wall (G.11.E22)	0.000	0.00	0.268	40.60	0.268	40.60 NORTH
in space: 89Plnm (G.11)						
89NNE Wall (G.11.E25)	0.000	0.00	0.268	225.80	0.268	225.80 NORTH
in space: 89Plnm (G.11)						
89NNE Wall (G.11.E27)	0.000	0.00	0.268	64.00	0.268	64.00 NORTH
in space: 89Plnm (G.11)						
89DBNNE Wall (G.WNW1.E4)	0.373	1250.00	0.268	482.50	0.344	1732.50 NORTH
in space: 89DBWNW Perim Spc (G.WNW1)						
89DBNNE Wall (G.2.E8)	0.000	0.00	0.268	110.00	0.268	110.00 NORTH
in space: 89DBPlnm (G.2)						
90NNE Wall (G.NNW1.E2)	0.373	460.80	0.268	76.80	0.358	537.60 NORTH
in space: 90NNW Perim Spc (G.NNW1)						
90NNE Wall (G.NNW1.E4)	0.373	384.00	0.268	64.00	0.358	448.00 NORTH
in space: 90NNW Perim Spc (G.NNW1)						
90NNE Wall (G.NE2.E6)	0.373	894.00	0.268	149.00	0.358	1043.00 NORTH
in space: 90NE Perim Spc (G.NE2)						
90NNE Wall (G.S6.E13)	0.000	0.00	0.268	284.20	0.268	284.20 NORTH
in space: 90South Perim Spc (G.S6)						
90NNE Wall (G.11.E22)	0.000	0.00	0.268	40.60	0.268	40.60 NORTH
in space: 90Plnm (G.11)						
90NNE Wall (G.11.E25)	0.000	0.00	0.268	225.80	0.268	225.80 NORTH
in space: 90Plnm (G.11)						
90NNE Wall (G.11.E27)	0.000	0.00	0.268	64.00	0.268	64.00 NORTH
in space: 90Plnm (G.11)						
91NNE Wall (G.NNW1.E2)	0.405	238.00	0.268	30.80	0.390	268.80 NORTH
in space: 91NNW Perim Spc (G.NNW1)						
91NNE Wall (G.NNW1.E4)	0.407	210.00	0.268	14.00	0.398	224.00 NORTH
in space: 91NNW Perim Spc (G.NNW1)						
91NNE Wall (G.NE2.E6)	0.398	490.00	0.268	31.50	0.390	521.50 NORTH
in space: 91NE Perim Spc (G.NE2)						
91NNE Wall (G.ESE11.E15)	0.000	0.00	0.268	385.00	0.268	385.00 NORTH
in space: 91ESE Perim Spc (G.ESE11)						
91NNE Wall (G.12.E23)	0.000	0.00	0.268	55.00	0.268	55.00 NORTH
in space: 91Plnm (G.12)						
91NNE Wall (G.12.E25)	0.000	0.00	0.268	112.90	0.268	112.90 NORTH
in space: 91Plnm (G.12)						
91NNE Wall (G.12.E27)	0.000	0.00	0.268	32.00	0.268	32.00 NORTH
in space: 91Plnm (G.12)						

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92NNE Wall (G.NNW1.E2)	0.405	238.00	0.268	30.80	0.390	268.80 NORTH
in space: 92NNW Perim Spc (G.NNW1)						
92NNE Wall (G.NNW1.E4)	0.407	210.00	0.268	14.00	0.398	224.00 NORTH
in space: 92NNW Perim Spc (G.NNW1)						
92NNE Wall (G.NE2.E6)	0.398	490.00	0.268	31.50	0.390	521.50 NORTH
in space: 92NE Perim Spc (G.NE2)						
92NNE Wall (G.ESE11.E15)	0.000	0.00	0.268	385.00	0.268	385.00 NORTH
in space: 92ESE Perim Spc (G.ESE11)						
92NNE Wall (G.12.E23)	0.000	0.00	0.268	55.00	0.268	55.00 NORTH
in space: 92Plnm (G.12)						
92NNE Wall (G.12.E25)	0.000	0.00	0.268	112.90	0.268	112.90 NORTH
in space: 92Plnm (G.12)						
92NNE Wall (G.12.E27)	0.000	0.00	0.268	32.00	0.268	32.00 NORTH
in space: 92Plnm (G.12)						
GNNE Wall (G.NNE15.E21)	0.572	994.16	0.268	37.84	0.561	1032.00 NORTH
in space: GNNE Perim Spc (G.NNE15)						
GNNE Wall (G.NW2.E3)	0.572	255.76	0.268	9.72	0.561	265.48 NORTH
in space: GNW Perim Spc (G.NW2)						
Exterior Wall 884	0.000	0.00	0.268	2988.00	0.268	2988.00 EAST
in space: 93MERSpace						
25ESE Wall (G.ESE9.E12)	0.000	0.00	0.307	1870.76	0.307	1870.76 EAST
in space: 25ESE Perim Spc (G.ESE9)						
25ESE Wall (T.ESE41.E42)	0.000	0.00	0.307	1870.76	0.307	1870.76 EAST
in space: 25ESE Perim Spc (T.ESE41)						
GESE Wall (G.E6.E9)	0.000	0.00	0.307	591.00	0.307	591.00 EAST
in space: GEast Perim Spc (G.E6)						
1MESE Wall (G.ESE7.E12)	0.000	0.00	0.307	1562.76	0.307	1562.76 EAST
in space: 1MESE Perim Spc (G.ESE7)						
25ESE Wall (M.ESE25.E27)	0.000	0.00	0.307	3741.51	0.307	3741.51 EAST
in space: 25ESE Perim Spc (M.ESE25)						
5765ESE Wall (M.ESE19.E39)	0.373	2308.61	0.268	937.87	0.343	3246.48 EAST
in space: 5765ESE Perim Spc (M.ESE19)						
5765ESE Wall (M.ENE20.E40)	0.373	1617.41	0.268	657.07	0.343	2274.48 EAST
in space: 5765ENE Perim Spc (M.ENE20)						
2026ESE Wall (G.ESE10.E9)	0.373	236.47	0.268	231.13	0.321	467.60 EAST
in space: 2026ESE Perim Spc (G.ESE10)						
5765ESE Wall (M.NE21.E42)	0.373	753.41	0.268	306.07	0.343	1059.48 EAST
in space: 5765NE Perim Spc (M.NE21)						
2026ESE Wall (G.S13.E13)	0.373	110.45	0.268	107.95	0.321	218.40 EAST
in space: 2026South Perim Spc (G.S13)						
5765ESE Wall (M.26.E48)	0.000	0.00	0.268	1380.60	0.268	1380.60 EAST
in space: 5765Plnm (M.26)						
2026ESE Wall (G.14.E19)	0.000	0.00	0.268	157.68	0.268	157.68 EAST
in space: 2026Plnm (G.14)						
5765ESE Wall (M.26.E50)	0.000	0.00	0.268	196.20	0.268	196.20 EAST
in space: 5765Plnm (M.26)						
10AESE Wall (G.10.E19)	0.000	0.00	0.268	4896.22	0.268	4896.22 EAST
in space: 10APlnm (G.10)						
GESE Wall (G.ESE11.E16)	0.000	0.00	0.307	1724.25	0.307	1724.25 EAST
in space: GESE Perim Spc (G.ESE11)						
2026ESE Wall (M.E20.E22)	0.373	1366.44	0.268	563.56	0.342	1930.00 EAST
in space: 2026East Perim Spc (M.E20)						
10MESE Wall (G.ESE4.E4)	0.000	0.00	0.268	901.20	0.268	901.20 EAST
in space: 10MESE Perim Spc (G.ESE4)						
66ESE Wall (T.SSE31.E63)	0.373	152.83	0.268	125.77	0.326	278.60 EAST
in space: 66SSE Perim Spc (T.SSE31)						
66ESE Wall (T.ESE32.E65)	0.373	256.51	0.268	211.09	0.326	467.60 EAST
in space: 66ESE Perim Spc (T.ESE32)						

(CONTINUED)						
66ESE Wall (T.ENE33.E66)	0.373	179.71	0.268	147.89	0.326	327.60 EAST
in space: 66ENE Perim Spc (T.ENE33)						
10MESE Wall (G.ESE6.E5)	0.000	0.00	0.268	1047.02	0.268	1047.02 EAST
in space: 10MESE Perim Spc (G.ESE6)						
66ESE Wall (T.NE34.E68)	0.373	83.71	0.268	68.89	0.326	152.60 EAST
in space: 66NE Perim Spc (T.NE34)						
2026ESE Wall (M.ESE24.E29)	0.373	1182.36	0.268	487.64	0.342	1670.00 EAST
in space: 2026ESE Perim Spc (M.ESE24)						
66ESE Wall (T.39.E74)	0.000	0.00	0.268	153.40	0.268	153.40 EAST
in space: 66Plnm (T.39)						
2026ESE Wall (M.S27.E33)	0.373	552.24	0.268	227.76	0.342	780.00 EAST
in space: 2026South Perim Spc (M.S27)						
66ESE Wall (T.39.E76)	0.000	0.00	0.268	21.80	0.268	21.80 EAST
in space: 66Plnm (T.39)						
2026ESE Wall (M.28.E39)	0.000	0.00	0.268	788.40	0.268	788.40 EAST
in space: 2026Plnm (M.28)						
10MESE Wall (G.SSW7.E7)	0.000	0.00	0.268	2557.77	0.268	2557.77 EAST
in space: 10MSSW Perim Spc (G.SSW7)						
Exterior Wall 894	0.000	0.00	0.268	1080.00	0.268	1080.00 EAST
in space: 6MC Top Spc						
2026ESE Wall (T.E34.E42)	0.410	205.00	0.268	335.40	0.322	540.40 EAST
in space: 2026East Perim Spc (T.E34)						
67MCESE Wall (G.SSE5.E10)	0.000	0.00	0.268	557.20	0.268	557.20 EAST
in space: 67MCSSE Perim Spc (G.SSE5)						
67MCESE Wall (G.ESE6.E12)	0.000	0.00	0.268	935.20	0.268	935.20 EAST
in space: 67MCESE Perim Spc (G.ESE6)						
67MCESE Wall (G.ENE7.E13)	0.000	0.00	0.268	655.20	0.268	655.20 EAST
in space: 67MCENE Perim Spc (G.ENE7)						
GESE Wall (G.18.E30)	0.000	0.00	0.268	20.70	0.268	20.70 EAST
in space: GPlnm (G.18)						
67MCESE Wall (G.NE8.E15)	0.000	0.00	0.268	305.20	0.268	305.20 EAST
in space: 67MCNE Perim Spc (G.NE8)						
10MESE Wall (G.ENE9.E14)	0.000	0.00	0.268	2347.78	0.268	2347.78 EAST
in space: 10MENE Perim Spc (G.ENE9)						
2026ESE Wall (T.ESE38.E49)	0.373	236.47	0.268	231.13	0.321	467.60 EAST
in space: 2026ESE Perim Spc (T.ESE38)						
2026ESE Wall (T.S41.E53)	0.373	110.45	0.268	107.95	0.321	218.40 EAST
in space: 2026South Perim Spc (T.S41)						
68ESE Wall (G.NE2.E5)	0.373	132.00	0.268	60.50	0.340	192.50 EAST
in space: 68NE Perim Spc (G.NE2)						
2026ESE Wall (T.42.E59)	0.000	0.00	0.268	157.68	0.268	157.68 EAST
in space: 2026Plnm (T.42)						
68ESE Wall (G.NE2.E7)	0.000	0.00	0.268	136.50	0.268	136.50 EAST
in space: 68NE Perim Spc (G.NE2)						
68ESE Wall (G.ESE3.E11)	0.373	22.56	0.268	10.34	0.340	32.90 EAST
in space: 68ESE Perim Spc (G.ESE3)						
11MCESE Wall (G.NNE1.E3)	0.000	0.00	0.268	914.82	0.268	914.82 EAST
in space: 11MCNNE Perim Spc (G.NNE1)						
68ESE Wall (G.S6.E17)	0.000	0.00	0.268	278.60	0.268	278.60 EAST
in space: 68South Perim Spc (G.S6)						
68ESE Wall (G.ESE9.E19)	0.000	0.00	0.268	373.80	0.268	373.80 EAST
in space: 68ESE Perim Spc (G.ESE9)						
68ESE Wall (G.C10.E20)	0.000	0.00	0.268	93.80	0.268	93.80 EAST
in space: 68Core Spc (G.C10)						
68ESE Wall (G.11.E25)	0.000	0.00	0.268	126.10	0.268	126.10 EAST
in space: 68Plnm (G.11)						
68ESE Wall (G.11.E29)	0.000	0.00	0.268	4.70	0.268	4.70 EAST
in space: 68Plnm (G.11)						

(CONTINUED)						
25ESE Wall (T.ESE42.E43)	0.000	0.00	0.307	1547.88	0.307	1547.88 EAST
in space: 25ESE Perim Spc (T.ESE42)						
68ESE Wall (G.11.E31)	0.000	0.00	0.268	27.50	0.268	27.50 EAST
in space: 68Plnm (G.11)						
27MCESE Wall (G.E6.E2)	0.000	0.00	0.268	694.80	0.268	694.80 EAST
in space: 27MCEast Perim Spc (G.E6)						
11MCESE Wall (G.WSW5.E11)	0.000	0.00	0.268	708.63	0.268	708.63 EAST
in space: 11MCWSW Perim Spc (G.WSW5)						
68DBESE Wall (G.WNW1.E3)	0.373	2059.20	0.268	85.80	0.369	2145.00 EAST
in space: 68DBWNW Perim Spc (G.WNW1)						
11MCESE Wall (G.SE6.E13)	0.000	0.00	0.268	1161.30	0.268	1161.30 EAST
in space: 11MCSE Perim Spc (G.SE6)						
27MCESE Wall (G.ESE10.E9)	0.000	0.00	0.268	601.20	0.268	601.20 EAST
in space: 27MCESE Perim Spc (G.ESE10)						
27MCESE Wall (G.S13.E13)	0.000	0.00	0.268	280.80	0.268	280.80 EAST
in space: 27MCSouth Perim Spc (G.S13)						
68DBESE Wall (G.2.E9)	0.000	0.00	0.268	143.00	0.268	143.00 EAST
in space: 68DBPlnm (G.2)						
11DBESE Wall (G.WNW1.E3)	0.000	0.00	0.268	4529.80	0.268	4529.80 EAST
in space: 11DBWNW Perim Spc (G.WNW1)						
GESE Wall (G.SSW12.E18)	0.000	0.00	0.268	123.75	0.268	123.75 EAST
in space: GSSW Perim Spc (G.SSW12)						
GESE Wall (G.NNE15.E20)	0.000	0.00	0.268	155.25	0.268	155.25 EAST
in space: GNNE Perim Spc (G.NNE15)						
28ESE Wall (G.E7.E5)	0.373	273.29	0.268	267.11	0.321	540.40 EAST
in space: 28East Perim Spc (G.E7)						
28ESE Wall (G.ESE8.E6)	0.373	236.47	0.268	231.13	0.321	467.60 EAST
in space: 28ESE Perim Spc (G.ESE8)						
69ESE Wall (G.NE2.E5)	0.373	132.00	0.268	60.50	0.340	192.50 EAST
in space: 69NE Perim Spc (G.NE2)						
28ESE Wall (G.S9.E7)	0.373	110.45	0.268	107.95	0.321	218.40 EAST
in space: 28South Perim Spc (G.S9)						
69ESE Wall (G.NE2.E7)	0.000	0.00	0.268	136.50	0.268	136.50 EAST
in space: 69NE Perim Spc (G.NE2)						
69ESE Wall (G.ESE3.E11)	0.373	22.56	0.268	10.34	0.340	32.90 EAST
in space: 69ESE Perim Spc (G.ESE3)						
28ESE Wall (G.13.E15)	0.000	0.00	0.268	175.20	0.268	175.20 EAST
in space: 28Plnm (G.13)						
69ESE Wall (G.S6.E17)	0.000	0.00	0.268	278.60	0.268	278.60 EAST
in space: 69South Perim Spc (G.S6)						
69ESE Wall (G.ESE9.E19)	0.000	0.00	0.268	373.80	0.268	373.80 EAST
in space: 69ESE Perim Spc (G.ESE9)						
69ESE Wall (G.C10.E20)	0.000	0.00	0.268	93.80	0.268	93.80 EAST
in space: 69Core Spc (G.C10)						
69ESE Wall (G.11.E25)	0.000	0.00	0.268	126.10	0.268	126.10 EAST
in space: 69Plnm (G.11)						
69ESE Wall (G.11.E29)	0.000	0.00	0.268	4.70	0.268	4.70 EAST
in space: 69Plnm (G.11)						
25ESE Wall (M.ESE26.E28)	0.000	0.00	0.307	3095.75	0.307	3095.75 EAST
in space: 25ESE Perim Spc (M.ESE26)						
69ESE Wall (G.11.E31)	0.000	0.00	0.268	27.50	0.268	27.50 EAST
in space: 69Plnm (G.11)						
GESE Wall (G.ESE10.E14)	0.000	0.00	0.268	336.00	0.268	336.00 EAST
in space: GESE Perim Spc (G.ESE10)						
1519ESE Wall (G.E8.E7)	0.373	819.86	0.268	338.14	0.342	1158.00 EAST
in space: 1519East Perim Spc (G.E8)						
1519ESE Wall (G.ESE9.E8)	0.373	709.42	0.268	292.58	0.342	1002.00 EAST
in space: 1519ESE Perim Spc (G.ESE9)						

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2936ESE Wall (M.E20.E21)	0.373	2186.30	0.268	839.94	0.344	3026.24 EAST
in space: 2936East Perim Spc (M.E20)						
70ESE Wall (G.S4.E9)	0.373	162.43	0.268	65.99	0.343	228.42 EAST
in space: 70South Perim Spc (G.S4)						
70ESE Wall (G.NE5.E11)	0.373	105.60	0.268	42.90	0.343	148.50 EAST
in space: 70NE Perim Spc (G.NE5)						
2936ESE Wall (M.ESE21.E22)	0.373	1891.78	0.268	726.78	0.344	2618.56 EAST
in space: 2936ESE Perim Spc (M.ESE21)						
2936ESE Wall (M.S22.E23)	0.373	883.58	0.268	339.46	0.344	1223.04 EAST
in space: 2936South Perim Spc (M.S22)						
70ESE Wall (G.ENE6.E14)	0.373	164.35	0.268	66.77	0.343	231.12 EAST
in space: 70ENE Perim Spc (G.ENE6)						
70ESE Wall (G.SE7.E16)	0.373	240.38	0.268	97.66	0.343	338.04 EAST
in space: 70SE Perim Spc (G.SE7)						
70ESE Wall (G.12.E21)	0.000	0.00	0.268	42.30	0.268	42.30 EAST
in space: 70Plnm (G.12)						
70ESE Wall (G.12.E23)	0.000	0.00	0.268	105.40	0.268	105.40 EAST
in space: 70Plnm (G.12)						
2936ESE Wall (M.26.E31)	0.000	0.00	0.268	1401.60	0.268	1401.60 EAST
in space: 2936Plnm (M.26)						
70ESE Wall (G.12.E25)	0.000	0.00	0.268	27.50	0.268	27.50 EAST
in space: 70Plnm (G.12)						
1519ESE Wall (G.S10.E10)	0.420	331.20	0.268	136.80	0.376	468.00 EAST
in space: 1519South Perim Spc (G.S10)						
1519ESE Wall (G.SSE11.E11)	0.373	635.08	0.268	261.92	0.342	897.00 EAST
in space: 1519SSE Perim Spc (G.SSE11)						
1519ESE Wall (G.14.E20)	0.000	0.00	0.268	161.46	0.268	161.46 EAST
in space: 1519Plnm (G.14)						
1519ESE Wall (G.14.E22)	0.000	0.00	0.268	473.04	0.268	473.04 EAST
in space: 1519Plnm (G.14)						
7179ESE Wall (M.S16.E37)	0.373	1461.89	0.268	593.89	0.343	2055.78 EAST
in space: 7179South Perim Spc (M.S16)						
7179ESE Wall (M.NE17.E39)	0.373	950.40	0.268	386.10	0.343	1336.50 EAST
in space: 7179NE Perim Spc (M.NE17)						
3744ESE Wall (M.E20.E21)	0.373	2186.30	0.268	839.94	0.344	3026.24 EAST
in space: 3744East Perim Spc (M.E20)						
3744ESE Wall (M.ESE21.E22)	0.373	1891.78	0.268	726.78	0.344	2618.56 EAST
in space: 3744ESE Perim Spc (M.ESE21)						
7179ESE Wall (M.ENE18.E42)	0.373	1479.17	0.268	600.91	0.343	2080.08 EAST
in space: 7179ENE Perim Spc (M.ENE18)						
7179ESE Wall (M.SE19.E44)	0.373	2163.46	0.268	878.90	0.343	3042.36 EAST
in space: 7179SE Perim Spc (M.SE19)						
7179ESE Wall (M.24.E49)	0.000	0.00	0.268	380.70	0.268	380.70 EAST
in space: 7179Plnm (M.24)						
7179ESE Wall (M.24.E51)	0.000	0.00	0.268	948.60	0.268	948.60 EAST
in space: 7179Plnm (M.24)						
3744ESE Wall (M.S22.E23)	0.373	883.58	0.268	339.46	0.344	1223.04 EAST
in space: 3744South Perim Spc (M.S22)						
7179ESE Wall (M.24.E53)	0.000	0.00	0.268	247.50	0.268	247.50 EAST
in space: 7179Plnm (M.24)						
3744ESE Wall (M.26.E31)	0.000	0.00	0.268	1401.60	0.268	1401.60 EAST
in space: 3744Plnm (M.26)						
8AESE Wall (G.ESE12.E16)	0.000	0.00	0.268	1683.60	0.268	1683.60 EAST
in space: 8AESE Perim Spc (G.ESE12)						
25ESE Wall (G.ESE10.E13)	0.000	0.00	0.307	1547.88	0.307	1547.88 EAST
in space: 25ESE Perim Spc (G.ESE10)						
8MCESE Wall (G.NNE1.E2)	0.000	0.00	0.268	473.00	0.268	473.00 EAST
in space: 8MANNE Perim Spc (G.NNE1)						

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8087ESE Wall (M.S16.E37)	0.373	1299.46	0.268	527.90	0.343	1827.36 EAST
in space: 8087South Perim Spc (M.S16)						
8087ESE Wall (M.NE17.E39)	0.373	844.80	0.268	343.20	0.343	1188.00 EAST
in space: 8087NE Perim Spc (M.NE17)						
GESE Wall (G.18.E26)	0.000	0.00	0.268	16.50	0.268	16.50 EAST
in space: GPlnm (G.18)						
45ESE Wall (T.E33.E37)	0.373	273.29	0.268	267.11	0.321	540.40 EAST
in space: 45East Perim Spc (T.E33)						
8087ESE Wall (M.ENE18.E42)	0.373	1314.82	0.268	534.14	0.343	1848.96 EAST
in space: 8087ENE Perim Spc (M.ENE18)						
8087ESE Wall (M.SE19.E44)	0.373	1923.07	0.268	781.25	0.343	2704.32 EAST
in space: 8087SE Perim Spc (M.SE19)						
8087ESE Wall (M.24.E49)	0.000	0.00	0.268	338.40	0.268	338.40 EAST
in space: 8087Plnm (M.24)						
8087ESE Wall (M.24.E51)	0.000	0.00	0.268	843.20	0.268	843.20 EAST
in space: 8087Plnm (M.24)						
45ESE Wall (T.ESE34.E38)	0.373	236.47	0.268	231.13	0.321	467.60 EAST
in space: 45ESE Perim Spc (T.ESE34)						
8087ESE Wall (M.24.E53)	0.000	0.00	0.268	220.00	0.268	220.00 EAST
in space: 8087Plnm (M.24)						
45ESE Wall (T.S35.E39)	0.373	110.45	0.268	107.95	0.321	218.40 EAST
in space: 45South Perim Spc (T.S35)						
45ESE Wall (T.39.E47)	0.000	0.00	0.268	175.20	0.268	175.20 EAST
in space: 45Plnm (T.39)						
1519ESE Wall (M.E22.E30)	0.373	1366.44	0.268	563.56	0.342	1930.00 EAST
in space: 1519East Perim Spc (M.E22)						
1519ESE Wall (M.ESE23.E31)	0.373	1182.36	0.268	487.64	0.342	1670.00 EAST
in space: 1519ESE Perim Spc (M.ESE23)						
88ESE Wall (T.S28.E65)	0.373	162.43	0.268	133.67	0.326	296.10 EAST
in space: 88South Perim Spc (T.S28)						
88ESE Wall (T.NE29.E67)	0.373	105.60	0.268	86.90	0.326	192.50 EAST
in space: 88NE Perim Spc (T.NE29)						
1519ESE Wall (M.S24.E33)	0.373	552.24	0.268	227.76	0.342	780.00 EAST
in space: 1519South Perim Spc (M.S24)						
1519ESE Wall (M.SSE25.E34)	0.373	1058.46	0.268	436.54	0.342	1495.00 EAST
in space: 1519SSE Perim Spc (M.SSE25)						
88ESE Wall (T.ENE30.E70)	0.373	164.35	0.268	135.25	0.326	299.60 EAST
in space: 88ENE Perim Spc (T.ENE30)						
88ESE Wall (T.SE31.E72)	0.373	240.38	0.268	197.82	0.326	438.20 EAST
in space: 88SE Perim Spc (T.SE31)						
88ESE Wall (T.36.E77)	0.000	0.00	0.268	42.30	0.268	42.30 EAST
in space: 88Plnm (T.36)						
88ESE Wall (T.36.E79)	0.000	0.00	0.268	105.40	0.268	105.40 EAST
in space: 88Plnm (T.36)						
46MCESE Wall (T.E33.E37)	0.000	0.00	0.268	694.80	0.268	694.80 EAST
in space: 46MCEast Perim Spc (T.E33)						
88ESE Wall (T.36.E81)	0.000	0.00	0.268	27.50	0.268	27.50 EAST
in space: 88Plnm (T.36)						
46MCESE Wall (T.ESE34.E38)	0.000	0.00	0.268	601.20	0.268	601.20 EAST
in space: 46MCESE Perim Spc (T.ESE34)						
46MCESE Wall (T.S35.E39)	0.000	0.00	0.268	280.80	0.268	280.80 EAST
in space: 46MCSouth Perim Spc (T.S35)						
46MCESE Wall (T.39.E47)	0.000	0.00	0.268	175.20	0.268	175.20 EAST
in space: 46MCPlnm (T.39)						
1519ESE Wall (M.28.E43)	0.000	0.00	0.268	269.10	0.268	269.10 EAST
in space: 1519Plnm (M.28)						
89ESE Wall (G.NE2.E5)	0.000	0.00	0.268	385.00	0.268	385.00 EAST
in space: 89NE Perim Spc (G.NE2)						

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1519ESE Wall (M.28.E45)	0.000	0.00	0.268	788.40	0.268	788.40 EAST
in space: 1519Plnm (M.28)						
89ESE Wall (G.ESE3.E7)	0.000	0.00	0.268	539.00	0.268	539.00 EAST
in space: 89ESE Perim Spc (G.ESE3)						
89ESE Wall (G.S6.E12)	0.373	406.08	0.268	186.12	0.340	592.20 EAST
in space: 89South Perim Spc (G.S6)						
8MCESE Wall (G.SSW2.E5)	0.000	0.00	0.268	947.00	0.268	947.00 EAST
in space: 8MASSW Perim Spc (G.SSW2)						
89ESE Wall (G.ESE9.E15)	0.000	0.00	0.268	747.60	0.268	747.60 EAST
in space: 89ESE Perim Spc (G.ESE9)						
89ESE Wall (G.C10.E16)	0.000	0.00	0.268	189.00	0.268	189.00 EAST
in space: 89Core Spc (G.C10)						
89ESE Wall (G.11.E21)	0.000	0.00	0.268	84.60	0.268	84.60 EAST
in space: 89Plnm (G.11)						
47ESE Wall (G.SSE5.E10)	0.373	152.83	0.268	62.09	0.343	214.92 EAST
in space: 47SSE Perim Spc (G.SSE5)						
89ESE Wall (G.11.E23)	0.000	0.00	0.268	210.80	0.268	210.80 EAST
in space: 89Plnm (G.11)						
89ESE Wall (G.11.E24)	0.000	0.00	0.268	55.00	0.268	55.00 EAST
in space: 89Plnm (G.11)						
47ESE Wall (G.ESE6.E12)	0.373	256.51	0.268	104.21	0.343	360.72 EAST
in space: 47ESE Perim Spc (G.ESE6)						
47ESE Wall (G.ENE7.E13)	0.373	74.12	0.268	36.50	0.338	110.62 EAST
in space: 47ENE Perim Spc (G.ENE7)						
89DBESE Wall (G.WNW1.E3)	0.386	3149.99	0.268	170.11	0.380	3320.10 EAST
in space: 89DBWNW Perim Spc (G.WNW1)						
47ESE Wall (G.ENE7.E14)	0.373	95.81	0.268	33.12	0.346	128.94 EAST
in space: 47ENE Perim Spc (G.ENE7)						
89DBESE Wall (G.2.E7)	0.000	0.00	0.268	210.80	0.268	210.80 EAST
in space: 89DBPlnm (G.2)						
6MCESE Wall (G.ESE5.E9)	0.000	0.00	0.307	6118.20	0.307	6118.20 EAST
in space: 6MCESE Perim Spc (G.ESE5)						
47ESE Wall (G.NE8.E16)	0.373	83.71	0.268	34.01	0.343	117.72 EAST
in space: 47NE Perim Spc (G.NE8)						
10AESE Wall (G.ESE4.E4)	0.000	0.00	0.268	216.30	0.268	216.30 EAST
in space: 10AESE Perim Spc (G.ESE4)						
90ESE Wall (G.NE2.E5)	0.000	0.00	0.268	385.00	0.268	385.00 EAST
in space: 90NE Perim Spc (G.NE2)						
47ESE Wall (G.13.E22)	0.000	0.00	0.268	153.40	0.268	153.40 EAST
in space: 47Plnm (G.13)						
90ESE Wall (G.ESE3.E7)	0.000	0.00	0.268	539.00	0.268	539.00 EAST
in space: 90ESE Perim Spc (G.ESE3)						
90ESE Wall (G.S6.E12)	0.373	406.08	0.268	186.12	0.340	592.20 EAST
in space: 90South Perim Spc (G.S6)						
10AESE Wall (G.ESE6.E5)	0.000	0.00	0.268	251.30	0.268	251.30 EAST
in space: 10AESE Perim Spc (G.ESE6)						
90ESE Wall (G.ESE9.E15)	0.000	0.00	0.268	747.60	0.268	747.60 EAST
in space: 90ESE Perim Spc (G.ESE9)						
90ESE Wall (G.C10.E16)	0.000	0.00	0.268	189.00	0.268	189.00 EAST
in space: 90Core Spc (G.C10)						
90ESE Wall (G.11.E21)	0.000	0.00	0.268	84.60	0.268	84.60 EAST
in space: 90Plnm (G.11)						
47ESE Wall (G.13.E24)	0.000	0.00	0.268	21.80	0.268	21.80 EAST
in space: 47Plnm (G.13)						
90ESE Wall (G.11.E23)	0.000	0.00	0.268	210.80	0.268	210.80 EAST
in space: 90Plnm (G.11)						
90ESE Wall (G.11.E24)	0.000	0.00	0.268	55.00	0.268	55.00 EAST
in space: 90Plnm (G.11)						

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1519ESE Wall (T.E36.E53)	0.373	273.29	0.268	267.11	0.321	540.40 EAST
in space: 1519East Perim Spc (T.E36)						
1519ESE Wall (T.ESE37.E54)	0.373	236.47	0.268	231.13	0.321	467.60 EAST
in space: 1519ESE Perim Spc (T.ESE37)						
1519ESE Wall (T.S38.E56)	0.373	110.45	0.268	107.95	0.321	218.40 EAST
in space: 1519South Perim Spc (T.S38)						
1519ESE Wall (T.SSE39.E57)	0.373	211.69	0.268	206.91	0.321	418.60 EAST
in space: 1519SSE Perim Spc (T.SSE39)						
91ESE Wall (G.NE2.E5)	0.411	168.00	0.268	24.50	0.393	192.50 EAST
in space: 91NE Perim Spc (G.NE2)						
4856ESE Wall (M.SSE18.E37)	0.373	1375.49	0.268	558.79	0.343	1934.28 EAST
in space: 4856SSE Perim Spc (M.SSE18)						
91ESE Wall (G.S6.E11)	0.373	203.04	0.268	93.06	0.340	296.10 EAST
in space: 91South Perim Spc (G.S6)						
91ESE Wall (G.ESE11.E14)	0.000	0.00	0.268	737.80	0.268	737.80 EAST
in space: 91ESE Perim Spc (G.ESE11)						
4856ESE Wall (M.ESE19.E39)	0.373	2308.61	0.268	937.87	0.343	3246.48 EAST
in space: 4856ESE Perim Spc (M.ESE19)						
91ESE Wall (G.12.E20)	0.000	0.00	0.268	42.30	0.268	42.30 EAST
in space: 91Plnm (G.12)						
91ESE Wall (G.12.E22)	0.000	0.00	0.268	105.40	0.268	105.40 EAST
in space: 91Plnm (G.12)						
4856ESE Wall (M.ENE20.E40)	0.373	1617.41	0.268	657.07	0.343	2274.48 EAST
in space: 4856ENE Perim Spc (M.ENE20)						
91ESE Wall (G.12.E24)	0.000	0.00	0.268	27.50	0.268	27.50 EAST
in space: 91Plnm (G.12)						
1519ESE Wall (T.42.E66)	0.000	0.00	0.268	53.82	0.268	53.82 EAST
in space: 1519Plnm (T.42)						
4856ESE Wall (M.NE21.E42)	0.373	753.41	0.268	306.07	0.343	1059.48 EAST
in space: 4856NE Perim Spc (M.NE21)						
1519ESE Wall (T.42.E68)	0.000	0.00	0.268	157.68	0.268	157.68 EAST
in space: 1519Plnm (T.42)						
4856ESE Wall (M.26.E48)	0.000	0.00	0.268	1380.60	0.268	1380.60 EAST
in space: 4856Plnm (M.26)						
92ESE Wall (G.NE2.E5)	0.411	168.00	0.268	24.50	0.393	192.50 EAST
in space: 92NE Perim Spc (G.NE2)						
10AESE Wall (G.SSW7.E7)	0.000	0.00	0.268	613.90	0.268	613.90 EAST
in space: 10ASSW Perim Spc (G.SSW7)						
92ESE Wall (G.S6.E11)	0.000	0.00	0.268	296.10	0.268	296.10 EAST
in space: 92South Perim Spc (G.S6)						
92ESE Wall (G.ESE11.E14)	0.000	0.00	0.268	737.80	0.268	737.80 EAST
in space: 92ESE Perim Spc (G.ESE11)						
4856ESE Wall (M.26.E50)	0.000	0.00	0.268	196.20	0.268	196.20 EAST
in space: 4856Plnm (M.26)						
92ESE Wall (G.12.E20)	0.000	0.00	0.268	42.30	0.268	42.30 EAST
in space: 92Plnm (G.12)						
92ESE Wall (G.12.E22)	0.000	0.00	0.268	105.40	0.268	105.40 EAST
in space: 92Plnm (G.12)						
6MCESE Wall (G.11.E13)	0.000	0.00	0.268	339.90	0.268	339.90 EAST
in space: 6MCPlnm (G.11)						
92ESE Wall (G.12.E24)	0.000	0.00	0.268	27.50	0.268	27.50 EAST
in space: 92Plnm (G.12)						
2026ESE Wall (G.E6.E2)	0.373	273.29	0.268	267.11	0.321	540.40 EAST
in space: 2026East Perim Spc (G.E6)						
GESE Wall (G.18.E28)	0.000	0.00	0.268	353.50	0.268	353.50 EAST
in space: GPlnm (G.18)						
10AESE Wall (G.ENE9.E14)	0.000	0.00	0.268	563.50	0.268	563.50 EAST
in space: 10AENE Perim Spc (G.ENE9)						

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5765ESE Wall (M.SSE18.E37)	0.373	1375.49	0.268	558.79	0.343	1934.28 EAST
in space: 5765SSE Perim Spc (M.SSE18)						
69SSE Wall (G.11.E27)	0.000	0.00	0.268	24.40	0.268	24.40 SOUTH-EAST
in space: 69Plnm (G.11)						
68SSE Wall (G.11.E27)	0.000	0.00	0.268	24.40	0.268	24.40 SOUTH-EAST
in space: 68Plnm (G.11)						
68SSE Wall (G.ESE3.E9)	0.000	0.00	0.268	170.80	0.268	170.80 SOUTH-EAST
in space: 68ESE Perim Spc (G.ESE3)						
69SSE Wall (G.ESE3.E9)	0.000	0.00	0.268	170.80	0.268	170.80 SOUTH-EAST
in space: 69ESE Perim Spc (G.ESE3)						
Exterior Wall 883	0.000	0.00	0.268	2988.00	0.268	2988.00 SOUTH
in space: 93MERSpace						
25SSW Wall (T.SSW35.E35)	0.000	0.00	0.307	428.75	0.307	428.75 SOUTH
in space: 25SSW Perim Spc (T.SSW35)						
68SSW Wall (G.11.E22)	0.000	0.00	0.268	18.00	0.268	18.00 SOUTH
in space: 68Plnm (G.11)						
68SSW Wall (G.11.E24)	0.000	0.00	0.268	126.90	0.268	126.90 SOUTH
in space: 68Plnm (G.11)						
1519SSW Wall (M.WNW20.E25)	0.373	856.24	0.268	756.26	0.324	1612.50 SOUTH
in space: 1519WNW Perim Spc (M.WNW20)						
68SSW Wall (G.11.E26)	0.000	0.00	0.268	30.40	0.268	30.40 SOUTH
in space: 68Plnm (G.11)						
8ASSW Wall (G.ESE12.E18)	0.000	0.00	0.268	121.20	0.268	121.20 SOUTH
in space: 8AESE Perim Spc (G.ESE12)						
68SSW Wall (G.11.E28)	0.000	0.00	0.268	7.00	0.268	7.00 SOUTH
in space: 68Plnm (G.11)						
25SSW Wall (T.W36.E37)	0.000	0.00	0.307	266.00	0.307	266.00 SOUTH
in space: 25West Perim Spc (T.W36)						
1519SSW Wall (M.NNE21.E28)	0.373	755.35	0.268	667.15	0.324	1422.50 SOUTH
in space: 1519NNE Perim Spc (M.NNE21)						
25SSW Wall (T.SSW37.E38)	0.572	2392.34	0.268	125.91	0.557	2518.25 SOUTH
in space: 25SSW Perim Spc (T.SSW37)						
8MCSSW Wall (G.SSW2.E4)	0.373	1200.00	0.268	243.00	0.355	1443.00 SOUTH
in space: 8MASSW Perim Spc (G.SSW2)						
2936SSW Wall (M.S22.E24)	0.410	1607.20	0.268	395.92	0.382	2003.12 SOUTH
in space: 2936South Perim Spc (M.S22)						
68DBSSW Wall (G.WNW1.E2)	0.392	700.00	0.268	125.00	0.373	825.00 SOUTH
in space: 68DBWNW Perim Spc (G.WNW1)						
2936SSW Wall (M.SSW23.E25)	0.373	1582.38	0.268	1338.02	0.325	2920.40 SOUTH
in space: 2936SSW Perim Spc (M.SSW23)						
2936SSW Wall (M.SW24.E26)	0.410	1724.80	0.268	1187.76	0.352	2912.56 SOUTH
in space: 2936SW Perim Spc (M.SW24)						
2936SSW Wall (M.26.E30)	0.000	0.00	0.268	1599.20	0.268	1599.20 SOUTH
in space: 2936Plnm (M.26)						
Exterior Wall 892	0.572	841.00	0.268	59.00	0.552	900.00 SOUTH
in space: 25SSW Perim Spc (T.SSW37)						
68DBSSW Wall (G.2.E8)	0.000	0.00	0.268	55.00	0.268	55.00 SOUTH
in space: 68DBPlnm (G.2)						
1519SSW Wall (M.S24.E32)	0.408	1250.00	0.268	140.00	0.394	1390.00 SOUTH
in space: 1519South Perim Spc (M.S24)						
25SSW Wall (T.SSW40.E41)	0.952	93.50	0.307	1157.75	0.355	1251.25 SOUTH
in space: 25SSW Perim Spc (T.SSW40)						
10ASSW Wall (G.SSW2.E2)	0.000	0.00	0.268	409.50	0.268	409.50 SOUTH
in space: 10ASSW Perim Spc (G.SSW2)						
1519SSW Wall (M.SSE25.E35)	0.373	1121.73	0.268	990.77	0.324	2112.50 SOUTH
in space: 1519SSE Perim Spc (M.SSE25)						
1519SSW Wall (M.W26.E36)	0.373	793.84	0.268	701.16	0.324	1495.00 SOUTH
in space: 1519West Perim Spc (M.W26)						

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1519SSW Wall (M.28.E40)	0.000	0.00	0.268	546.30	0.268	546.30	SOUTH
in space: 1519Plnm (M.28)							
1519SSW Wall (M.28.E42)	0.000	0.00	0.268	649.35	0.268	649.35	SOUTH
in space: 1519Plnm (M.28)							
3744SSW Wall (M.S22.E24)	0.410	1607.20	0.268	395.92	0.382	2003.12	SOUTH
in space: 3744South Perim Spc (M.S22)							
3744SSW Wall (M.SSW23.E25)	0.373	1582.38	0.268	1338.02	0.325	2920.40	SOUTH
in space: 3744SSW Perim Spc (M.SSW23)							
69SSW Wall (G.ESE3.E8)	0.000	0.00	0.268	212.80	0.268	212.80	SOUTH
in space: 69ESE Perim Spc (G.ESE3)							
3744SSW Wall (M.SW24.E26)	0.410	1724.80	0.268	1187.76	0.352	2912.56	SOUTH
in space: 3744SW Perim Spc (M.SW24)							
69SSW Wall (G.ESE3.E10)	0.000	0.00	0.268	49.00	0.268	49.00	SOUTH
in space: 69ESE Perim Spc (G.ESE3)							
3744SSW Wall (M.26.E30)	0.000	0.00	0.268	1599.20	0.268	1599.20	SOUTH
in space: 3744Plnm (M.26)							
25SSW Wall (G.SSW8.E11)	0.952	93.50	0.307	1157.75	0.355	1251.25	SOUTH
in space: 25SSW Perim Spc (G.SSW8)							
69SSW Wall (G.W4.E13)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 69West Perim Spc (G.W4)							
69SSW Wall (G.SW5.E16)	0.373	188.64	0.268	178.16	0.322	366.80	SOUTH
in space: 69SW Perim Spc (G.SW5)							
1519SSW Wall (M.28.E44)	0.000	0.00	0.268	250.20	0.268	250.20	SOUTH
in space: 1519Plnm (M.28)							
69SSW Wall (G.S6.E18)	0.373	268.20	0.268	253.30	0.322	521.50	SOUTH
in space: 69South Perim Spc (G.S6)							
GSSW Wall (G.18.E23)	0.000	0.00	0.268	222.40	0.268	222.40	SOUTH
in space: GPlnm (G.18)							
10ASSW Wall (G.SSW7.E6)	0.373	505.05	0.268	505.05	0.321	1010.10	SOUTH
in space: 10ASSW Perim Spc (G.SSW7)							
69SSW Wall (G.11.E22)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 69Plnm (G.11)							
69SSW Wall (G.11.E24)	0.000	0.00	0.268	126.90	0.268	126.90	SOUTH
in space: 69Plnm (G.11)							
1519SSW Wall (T.WNW34.E48)	0.373	171.25	0.268	280.25	0.308	451.50	SOUTH
in space: 1519WNW Perim Spc (T.WNW34)							
69SSW Wall (G.11.E26)	0.000	0.00	0.268	30.40	0.268	30.40	SOUTH
in space: 69Plnm (G.11)							
GSSW Wall (G.18.E25)	0.000	0.00	0.268	212.80	0.268	212.80	SOUTH
in space: GPlnm (G.18)							
69SSW Wall (G.11.E28)	0.000	0.00	0.268	7.00	0.268	7.00	SOUTH
in space: 69Plnm (G.11)							
10ASSW Wall (G.N8.E10)	0.000	0.00	0.268	440.30	0.268	440.30	SOUTH
in space: 10ANorth Perim Spc (G.N8)							
1519SSW Wall (T.NNE35.E51)	0.373	151.07	0.268	247.23	0.308	398.30	SOUTH
in space: 1519NNE Perim Spc (T.NNE35)							
45SSW Wall (T.S35.E40)	0.410	200.90	0.268	156.80	0.348	357.70	SOUTH
in space: 45South Perim Spc (T.S35)							
45SSW Wall (T.SSW36.E41)	0.373	197.80	0.268	323.70	0.308	521.50	SOUTH
in space: 45SSW Perim Spc (T.SSW36)							
45SSW Wall (T.SW37.E42)	0.410	215.60	0.268	304.50	0.327	520.10	SOUTH
in space: 45SW Perim Spc (T.SW37)							
45SSW Wall (T.39.E46)	0.000	0.00	0.268	199.90	0.268	199.90	SOUTH
in space: 45Plnm (T.39)							
GSSW Wall (G.SSW4.E6)	0.000	0.00	0.307	367.50	0.307	367.50	SOUTH
in space: GSSW Perim Spc (G.SSW4)							
70SSW Wall (G.W2.E5)	0.000	0.00	0.268	97.20	0.268	97.20	SOUTH
in space: 70West Perim Spc (G.W2)							

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70SSW Wall (G.SW3.E8)	0.373	150.91	0.268	132.05	0.324	282.96 SOUTH
in space: 70SW Perim Spc (G.SW3)						
GSSW Wall (G.18.E27)	0.000	0.00	0.268	40.10	0.268	40.10 SOUTH
in space: GPlnm (G.18)						
70SSW Wall (G.S4.E10)	0.373	305.42	0.268	206.50	0.331	511.92 SOUTH
in space: 70South Perim Spc (G.S4)						
1MSSW Wall (G.SW4.E8)	0.000	0.00	0.307	306.80	0.307	306.80 SOUTH
in space: 1MSW Perim Spc (G.SW4)						
1519SSW Wall (T.S38.E55)	0.408	250.00	0.268	139.20	0.358	389.20 SOUTH
in space: 1519South Perim Spc (T.S38)						
10ASSW Wall (G.10.E16)	0.000	0.00	0.268	2529.37	0.268	2529.37 SOUTH
in space: 10APlnm (G.10)						
10ASSW Wall (G.10.E18)	0.000	0.00	0.268	3006.49	0.268	3006.49 SOUTH
in space: 10APlnm (G.10)						
70SSW Wall (G.SE7.E15)	0.410	183.60	0.268	3.78	0.408	187.38 SOUTH
in space: 70SE Perim Spc (G.SE7)						
1519SSW Wall (T.SSE39.E58)	0.373	224.35	0.268	367.15	0.308	591.50 SOUTH
in space: 1519SSE Perim Spc (T.SSE39)						
70SSW Wall (G.12.E18)	0.000	0.00	0.268	18.00	0.268	18.00 SOUTH
in space: 70Plnm (G.12)						
70SSW Wall (G.12.E20)	0.000	0.00	0.268	147.20	0.268	147.20 SOUTH
in space: 70Plnm (G.12)						
1519SSW Wall (T.W40.E59)	0.373	158.77	0.268	259.83	0.308	418.60 SOUTH
in space: 1519West Perim Spc (T.W40)						
70SSW Wall (G.12.E22)	0.000	0.00	0.268	34.70	0.268	34.70 SOUTH
in space: 70Plnm (G.12)						
46MCSSW Wall (T.S35.E40)	0.000	0.00	0.268	459.90	0.268	459.90 SOUTH
in space: 46MCSouth Perim Spc (T.S35)						
46MCSSW Wall (T.SSW36.E41)	0.000	0.00	0.268	670.50	0.268	670.50 SOUTH
in space: 46MCSSW Perim Spc (T.SSW36)						
46MCSSW Wall (T.SW37.E42)	0.000	0.00	0.268	668.70	0.268	668.70 SOUTH
in space: 46MCSW Perim Spc (T.SW37)						
46MCSSW Wall (T.39.E46)	0.000	0.00	0.268	199.90	0.268	199.90 SOUTH
in space: 46MCPlnm (T.39)						
1519SSW Wall (T.42.E63)	0.000	0.00	0.268	109.26	0.268	109.26 SOUTH
in space: 1519Plnm (T.42)						
1519SSW Wall (T.42.E65)	0.000	0.00	0.268	129.87	0.268	129.87 SOUTH
in space: 1519Plnm (T.42)						
1MSSW Wall (G.SSW5.E9)	0.000	0.00	0.268	1151.20	0.268	1151.20 SOUTH
in space: 1MSSW Perim Spc (G.SSW5)						
7179SSW Wall (M.W14.E33)	0.000	0.00	0.268	874.80	0.268	874.80 SOUTH
in space: 7179West Perim Spc (M.W14)						
7179SSW Wall (M.SW15.E36)	0.373	1358.20	0.268	1188.44	0.324	2546.64 SOUTH
in space: 7179SW Perim Spc (M.SW15)						
1519SSW Wall (T.42.E67)	0.000	0.00	0.268	50.04	0.268	50.04 SOUTH
in space: 1519Plnm (T.42)						
7179SSW Wall (M.S16.E38)	0.373	2748.82	0.268	1858.46	0.331	4607.28 SOUTH
in space: 7179South Perim Spc (M.S16)						
47SSW Wall (G.W2.E5)	0.000	0.00	0.268	97.20	0.268	97.20 SOUTH
in space: 47West Perim Spc (G.W2)						
47SSW Wall (G.SW3.E8)	0.410	183.60	0.268	120.42	0.354	304.02 SOUTH
in space: 47SW Perim Spc (G.SW3)						
47SSW Wall (G.SSW4.E9)	0.373	214.56	0.268	187.74	0.324	402.30 SOUTH
in space: 47SSW Perim Spc (G.SSW4)						
GSSW Wall (G.SSW12.E17)	0.572	1537.48	0.268	58.52	0.561	1596.00 SOUTH
in space: GSSW Perim Spc (G.SSW12)						
7179SSW Wall (M.SE19.E43)	0.410	1652.39	0.268	34.03	0.408	1686.42 SOUTH
in space: 7179SE Perim Spc (M.SE19)						

(CONTINUED)						
47SSW Wall (G.SSE5.E11)	0.408	216.00	0.268	59.94	0.378	275.94 SOUTH
in space: 47SSE Perim Spc (G.SSE5)						
7179SSW Wall (M.24.E46)	0.000	0.00	0.268	162.00	0.268	162.00 SOUTH
in space: 7179Plnm (M.24)						
7179SSW Wall (M.24.E48)	0.000	0.00	0.268	1324.80	0.268	1324.80 SOUTH
in space: 7179Plnm (M.24)						
10MSSW Wall (G.SSW2.E2)	0.000	0.00	0.268	1706.15	0.268	1706.15 SOUTH
in space: 10MSSW Perim Spc (G.SSW2)						
7179SSW Wall (M.24.E50)	0.000	0.00	0.268	312.30	0.268	312.30 SOUTH
in space: 7179Plnm (M.24)						
25SSW Wall (M.SSW19.E20)	0.000	0.00	0.307	857.50	0.307	857.50 SOUTH
in space: 25SSW Perim Spc (M.SSW19)						
6MCSSW Wall (G.SSW6.E10)	0.373	2080.00	0.268	3100.40	0.310	5180.40 SOUTH
in space: 6MCSSW Perim Spc (G.SSW6)						
2026SSW Wall (G.WNW7.E4)	0.412	171.20	0.268	280.30	0.323	451.50 SOUTH
in space: 2026WNW Perim Spc (G.WNW7)						
10MSSW Wall (G.SSW7.E6)	0.000	0.00	0.268	4208.51	0.268	4208.51 SOUTH
in space: 10MSSW Perim Spc (G.SSW7)						
6MCSSW Wall (G.11.E12)	0.000	0.00	0.268	287.80	0.268	287.80 SOUTH
in space: 6MCPlnm (G.11)						
47SSW Wall (G.13.E19)	0.000	0.00	0.268	18.00	0.268	18.00 SOUTH
in space: 47Plnm (G.13)						
47SSW Wall (G.13.E21)	0.000	0.00	0.268	181.90	0.268	181.90 SOUTH
in space: 47Plnm (G.13)						
8087SSW Wall (M.W14.E33)	0.000	0.00	0.268	777.60	0.268	777.60 SOUTH
in space: 8087West Perim Spc (M.W14)						
8087SSW Wall (M.SW15.E36)	0.373	1207.29	0.268	1056.39	0.324	2263.68 SOUTH
in space: 8087SW Perim Spc (M.SW15)						
2026SSW Wall (G.NNE8.E7)	0.373	151.07	0.268	247.23	0.308	398.30 SOUTH
in space: 2026NNE Perim Spc (G.NNE8)						
8087SSW Wall (M.S16.E38)	0.373	2443.39	0.268	1651.97	0.331	4095.36 SOUTH
in space: 8087South Perim Spc (M.S16)						
10MSSW Wall (G.N8.E10)	0.000	0.00	0.268	1834.48	0.268	1834.48 SOUTH
in space: 10MNorth Perim Spc (G.N8)						
2026SSW Wall (G.SW11.E10)	0.409	220.00	0.268	198.60	0.342	418.60 SOUTH
in space: 2026SW Perim Spc (G.SW11)						
2026SSW Wall (G.SSW12.E12)	0.373	236.30	0.268	386.70	0.308	623.00 SOUTH
in space: 2026SSW Perim Spc (G.SSW12)						
25SSW Wall (M.W20.E22)	0.000	0.00	0.307	532.00	0.307	532.00 SOUTH
in space: 25West Perim Spc (M.W20)						
8087SSW Wall (M.SE19.E43)	0.410	1468.79	0.268	30.25	0.408	1499.04 SOUTH
in space: 8087SE Perim Spc (M.SE19)						
2026SSW Wall (G.S13.E14)	0.410	210.00	0.268	147.70	0.351	357.70 SOUTH
in space: 2026South Perim Spc (G.S13)						
8087SSW Wall (M.24.E46)	0.000	0.00	0.268	144.00	0.268	144.00 SOUTH
in space: 8087Plnm (M.24)						
8087SSW Wall (M.24.E48)	0.000	0.00	0.268	1177.60	0.268	1177.60 SOUTH
in space: 8087Plnm (M.24)						
2026SSW Wall (G.14.E16)	0.000	0.00	0.268	109.26	0.268	109.26 SOUTH
in space: 2026Plnm (G.14)						
8087SSW Wall (M.24.E50)	0.000	0.00	0.268	277.60	0.268	277.60 SOUTH
in space: 8087Plnm (M.24)						
4856SSW Wall (M.W15.E32)	0.000	0.00	0.268	874.80	0.268	874.80 SOUTH
in space: 4856West Perim Spc (M.W15)						
4856SSW Wall (M.SW16.E35)	0.410	1652.39	0.268	1083.79	0.354	2736.18 SOUTH
in space: 4856SW Perim Spc (M.SW16)						
4856SSW Wall (M.SSW17.E36)	0.373	1931.04	0.268	1689.66	0.324	3620.70 SOUTH
in space: 4856SSW Perim Spc (M.SSW17)						

(CONTINUED)							
2026SSW Wall (G.14.E18)	0.000	0.00	0.268	179.91	0.268	179.91	SOUTH
in space: 2026Plnm (G.14)							
4856SSW Wall (M.SSE18.E38)	0.408	1943.99	0.268	539.47	0.378	2483.46	SOUTH
in space: 4856SSE Perim Spc (M.SSE18)							
25SSW Wall (M.SSW21.E23)	0.572	4784.68	0.268	251.82	0.557	5036.50	SOUTH
in space: 25SSW Perim Spc (M.SSW21)							
Exterior Wall 891	0.572	1682.00	0.268	118.00	0.552	1800.00	SOUTH
in space: 25SSW Perim Spc (M.SSW21)							
88SSW Wall (T.W26.E61)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 88West Perim Spc (T.W26)							
88SSW Wall (T.SW27.E64)	0.373	150.91	0.268	215.89	0.311	366.80	SOUTH
in space: 88SW Perim Spc (T.SW27)							
11MCSSW Wall (G.NNE1.E2)	0.000	0.00	0.268	1438.59	0.268	1438.59	SOUTH
in space: 11MCNNE Perim Spc (G.NNE1)							
88SSW Wall (T.S28.E66)	0.373	305.42	0.268	358.18	0.316	663.60	SOUTH
in space: 88South Perim Spc (T.S28)							
6MCSSW Wall (G.11.E18)	0.000	0.00	0.268	222.40	0.268	222.40	SOUTH
in space: 6MCPlnm (G.11)							
2026SSW Wall (M.WNW21.E24)	0.373	856.24	0.268	756.26	0.324	1612.50	SOUTH
in space: 2026WNW Perim Spc (M.WNW21)							
4856SSW Wall (M.26.E45)	0.000	0.00	0.268	162.00	0.268	162.00	SOUTH
in space: 4856Plnm (M.26)							
4856SSW Wall (M.26.E47)	0.000	0.00	0.268	1637.10	0.268	1637.10	SOUTH
in space: 4856Plnm (M.26)							
88SSW Wall (T.SE31.E71)	0.410	183.60	0.268	59.30	0.376	242.90	SOUTH
in space: 88SE Perim Spc (T.SE31)							
Exterior Wall 893	0.000	0.00	0.268	1080.00	0.268	1080.00	SOUTH
in space: 6MC Top Spc							
88SSW Wall (T.36.E74)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 88Plnm (T.36)							
88SSW Wall (T.36.E76)	0.000	0.00	0.268	147.20	0.268	147.20	SOUTH
in space: 88Plnm (T.36)							
11MCSSW Wall (G.SW3.E6)	0.000	0.00	0.268	445.56	0.268	445.56	SOUTH
in space: 11MCSW Perim Spc (G.SW3)							
88SSW Wall (T.36.E78)	0.000	0.00	0.268	34.70	0.268	34.70	SOUTH
in space: 88Plnm (T.36)							
2026SSW Wall (M.NNE22.E27)	0.373	755.35	0.268	667.15	0.324	1422.50	SOUTH
in space: 2026NNE Perim Spc (M.NNE22)							
11MCSSW Wall (G.SSW4.E8)	0.000	0.00	0.268	264.26	0.268	264.26	SOUTH
in space: 11MCSSW Perim Spc (G.SSW4)							
2026SSW Wall (M.SW25.E30)	0.409	1100.00	0.268	395.00	0.372	1495.00	SOUTH
in space: 2026SW Perim Spc (M.SW25)							
2026SSW Wall (M.SSW26.E32)	0.373	1181.48	0.268	1043.52	0.324	2225.00	SOUTH
in space: 2026SSW Perim Spc (M.SSW26)							
11MCSSW Wall (G.WSW5.E10)	0.000	0.00	0.268	1000.14	0.268	1000.14	SOUTH
in space: 11MCWSW Perim Spc (G.WSW5)							
5765SSW Wall (M.W15.E32)	0.000	0.00	0.268	874.80	0.268	874.80	SOUTH
in space: 5765West Perim Spc (M.W15)							
5765SSW Wall (M.SW16.E35)	0.410	1652.39	0.268	1083.79	0.354	2736.18	SOUTH
in space: 5765SW Perim Spc (M.SW16)							
5765SSW Wall (M.SSW17.E36)	0.373	1931.04	0.268	1689.66	0.324	3620.70	SOUTH
in space: 5765SSW Perim Spc (M.SSW17)							
2026SSW Wall (M.S27.E34)	0.410	1050.00	0.268	227.50	0.384	1277.50	SOUTH
in space: 2026South Perim Spc (M.S27)							
5765SSW Wall (M.SSE18.E38)	0.408	1943.99	0.268	539.47	0.378	2483.46	SOUTH
in space: 5765SSE Perim Spc (M.SSE18)							
89SSW Wall (G.W4.E8)	0.000	0.00	0.268	252.00	0.268	252.00	SOUTH
in space: 89West Perim Spc (G.W4)							

						(CONTINUED)	
89SSW Wall (G.SW5.E11)	0.373	377.28	0.268	356.32	0.322	733.60	SOUTH
in space: 89SW Perim Spc (G.SW5)							
2026SSW Wall (M.28.E36)	0.000	0.00	0.268	546.30	0.268	546.30	SOUTH
in space: 2026Plnm (M.28)							
2026SSW Wall (M.28.E38)	0.000	0.00	0.268	899.55	0.268	899.55	SOUTH
in space: 2026Plnm (M.28)							
89SSW Wall (G.S6.E14)	0.373	766.56	0.268	560.64	0.329	1327.20	SOUTH
in space: 89South Perim Spc (G.S6)							
25SSW Wall (M.SSW24.E26)	0.952	187.00	0.307	2315.50	0.355	2502.50	SOUTH
in space: 25SSW Perim Spc (M.SSW24)							
11MCSSW Wall (G.SE6.E12)	0.000	0.00	0.268	658.86	0.268	658.86	SOUTH
in space: 11MCSE Perim Spc (G.SE6)							
89SSW Wall (G.11.E18)	0.000	0.00	0.268	36.00	0.268	36.00	SOUTH
in space: 89Plnm (G.11)							
89SSW Wall (G.11.E20)	0.000	0.00	0.268	294.40	0.268	294.40	SOUTH
in space: 89Plnm (G.11)							
GSSW Wall (G.SSW9.E13)	0.952	84.00	0.307	988.50	0.358	1072.50	SOUTH
in space: GSSW Perim Spc (G.SSW9)							
5765SSW Wall (M.26.E45)	0.000	0.00	0.268	162.00	0.268	162.00	SOUTH
in space: 5765Plnm (M.26)							
5765SSW Wall (M.26.E47)	0.000	0.00	0.268	1637.10	0.268	1637.10	SOUTH
in space: 5765Plnm (M.26)							
11DBSSW Wall (G.WNW1.E2)	0.000	0.00	0.268	2126.45	0.268	2126.45	SOUTH
in space: 11DBWNW Perim Spc (G.WNW1)							
2026SSW Wall (T.WNW35.E44)	0.373	171.25	0.268	280.25	0.308	451.50	SOUTH
in space: 2026WNW Perim Spc (T.WNW35)							
GSSW Wall (G.W5.E8)	0.000	0.00	0.307	228.00	0.307	228.00	SOUTH
in space: GWest Perim Spc (G.W5)							
89DBSSW Wall (G.WNW1.E2)	0.393	1250.00	0.268	482.50	0.358	1732.50	SOUTH
in space: 89DBWNW Perim Spc (G.WNW1)							
8ASSW Wall (G.WSW2.E3)	0.000	0.00	0.268	1456.80	0.268	1456.80	SOUTH
in space: 8AWSW Perim Spc (G.WSW2)							
2026SSW Wall (T.NNE36.E47)	0.373	151.07	0.268	247.23	0.308	398.30	SOUTH
in space: 2026NNE Perim Spc (T.NNE36)							
89DBSSW Wall (G.2.E6)	0.000	0.00	0.268	110.00	0.268	110.00	SOUTH
in space: 89DBPlnm (G.2)							
1519SSW Wall (G.WNW6.E2)	0.412	513.60	0.268	453.90	0.344	967.50	SOUTH
in space: 1519WNW Perim Spc (G.WNW6)							
2026SSW Wall (T.SW39.E50)	0.409	220.00	0.268	198.60	0.342	418.60	SOUTH
in space: 2026SW Perim Spc (T.SW39)							
66SSW Wall (T.W28.E58)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 66West Perim Spc (T.W28)							
66SSW Wall (T.SW29.E61)	0.410	183.60	0.268	210.50	0.334	394.10	SOUTH
in space: 66SW Perim Spc (T.SW29)							
66SSW Wall (T.SSW30.E62)	0.373	214.56	0.268	306.94	0.311	521.50	SOUTH
in space: 66SSW Perim Spc (T.SSW30)							
2026SSW Wall (T.SSW40.E52)	0.373	236.30	0.268	386.70	0.308	623.00	SOUTH
in space: 2026SSW Perim Spc (T.SSW40)							
66SSW Wall (T.SSE31.E64)	0.408	216.00	0.268	141.70	0.353	357.70	SOUTH
in space: 66SSE Perim Spc (T.SSE31)							
90SSW Wall (G.W4.E8)	0.373	129.60	0.268	122.40	0.322	252.00	SOUTH
in space: 90West Perim Spc (G.W4)							
90SSW Wall (G.SW5.E11)	0.373	377.28	0.268	356.32	0.322	733.60	SOUTH
in space: 90SW Perim Spc (G.SW5)							
8ASSW Wall (G.WSW2.E5)	0.000	0.00	0.268	716.40	0.268	716.40	SOUTH
in space: 8AWSW Perim Spc (G.WSW2)							
2026SSW Wall (T.S41.E54)	0.410	210.00	0.268	147.70	0.351	357.70	SOUTH
in space: 2026South Perim Spc (T.S41)							

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90SSW Wall (G.S6.E14)	0.373	766.56	0.268	560.64	0.329	1327.20 SOUTH
in space: 90South Perim Spc (G.S6)						
2026SSW Wall (T.42.E56)	0.000	0.00	0.268	109.26	0.268	109.26 SOUTH
in space: 2026Plnm (T.42)						
2026SSW Wall (T.42.E58)	0.000	0.00	0.268	179.91	0.268	179.91 SOUTH
in space: 2026Plnm (T.42)						
90SSW Wall (G.11.E18)	0.000	0.00	0.268	36.00	0.268	36.00 SOUTH
in space: 90Plnm (G.11)						
90SSW Wall (G.11.E20)	0.000	0.00	0.268	294.40	0.268	294.40 SOUTH
in space: 90Plnm (G.11)						
GSSW Wall (G.ESE11.E15)	0.572	289.72	0.268	11.03	0.561	300.75 SOUTH
in space: GESE Perim Spc (G.ESE11)						
66SSW Wall (T.39.E71)	0.000	0.00	0.268	18.00	0.268	18.00 SOUTH
in space: 66Plnm (T.39)						
66SSW Wall (T.39.E73)	0.000	0.00	0.268	181.90	0.268	181.90 SOUTH
in space: 66Plnm (T.39)						
1519SSW Wall (G.NNE7.E5)	0.373	453.21	0.268	400.29	0.324	853.50 SOUTH
in space: 1519NNE Perim Spc (G.NNE7)						
25SSW Wall (G.SSW3.E5)	0.000	0.00	0.307	428.75	0.307	428.75 SOUTH
in space: 25SSW Perim Spc (G.SSW3)						
25SSW Wall (G.W4.E7)	0.000	0.00	0.268	266.00	0.268	266.00 SOUTH
in space: 25West Perim Spc (G.W4)						
27MCSSW Wall (G.WNW7.E4)	0.000	0.00	0.268	580.50	0.268	580.50 SOUTH
in space: 27MCWNW Perim Spc (G.WNW7)						
25SSW Wall (G.SSW5.E8)	0.572	2392.34	0.268	125.91	0.557	2518.25 SOUTH
in space: 25SSW Perim Spc (G.SSW5)						
1519SSW Wall (G.S10.E9)	0.408	750.00	0.268	84.00	0.394	834.00 SOUTH
in space: 1519South Perim Spc (G.S10)						
27MCSSW Wall (G.NNE8.E7)	0.000	0.00	0.268	512.10	0.268	512.10 SOUTH
in space: 27MCNNE Perim Spc (G.NNE8)						
91SSW Wall (G.W4.E7)	0.000	0.00	0.268	126.00	0.268	126.00 SOUTH
in space: 91West Perim Spc (G.W4)						
91SSW Wall (G.SW5.E10)	0.000	0.00	0.268	366.80	0.268	366.80 SOUTH
in space: 91SW Perim Spc (G.SW5)						
67MCSSW Wall (G.W2.E5)	0.000	0.00	0.268	252.00	0.268	252.00 SOUTH
in space: 67MCWest Perim Spc (G.W2)						
91SSW Wall (G.S6.E12)	0.000	0.00	0.268	663.60	0.268	663.60 SOUTH
in space: 91South Perim Spc (G.S6)						
91SSW Wall (G.ESE11.E13)	0.000	0.00	0.268	242.90	0.268	242.90 SOUTH
in space: 91ESE Perim Spc (G.ESE11)						
67MCSSW Wall (G.SW3.E8)	0.000	0.00	0.268	788.20	0.268	788.20 SOUTH
in space: 67MCSW Perim Spc (G.SW3)						
67MCSSW Wall (G.SSW4.E9)	0.000	0.00	0.268	1043.00	0.268	1043.00 SOUTH
in space: 67MCSSW Perim Spc (G.SSW4)						
91SSW Wall (G.12.E17)	0.000	0.00	0.268	18.00	0.268	18.00 SOUTH
in space: 91Plnm (G.12)						
91SSW Wall (G.12.E19)	0.000	0.00	0.268	147.20	0.268	147.20 SOUTH
in space: 91Plnm (G.12)						
8ASSW Wall (G.SW9.E12)	0.000	0.00	0.268	355.20	0.268	355.20 SOUTH
in space: 8ASW Perim Spc (G.SW9)						
91SSW Wall (G.12.E21)	0.000	0.00	0.268	34.70	0.268	34.70 SOUTH
in space: 91Plnm (G.12)						
67MCSSW Wall (G.SSE5.E11)	0.000	0.00	0.268	715.40	0.268	715.40 SOUTH
in space: 67MCSSE Perim Spc (G.SSE5)						
27MCSSW Wall (G.SW11.E10)	0.000	0.00	0.268	538.20	0.268	538.20 SOUTH
in space: 27MCSW Perim Spc (G.SW11)						
27MCSSW Wall (G.SSW12.E12)	0.000	0.00	0.268	801.00	0.268	801.00 SOUTH
in space: 27MCSSW Perim Spc (G.SSW12)						

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8ASSW Wall (G.WSW10.E13)	0.000	0.00	0.268	306.00	0.268	306.00	SOUTH
in space: 8AWSW Perim Spc (G.WSW10)							
27MCSSW Wall (G.S13.E14)	0.000	0.00	0.268	459.90	0.268	459.90	SOUTH
in space: 27MCSouth Perim Spc (G.S13)							
1519SSW Wall (G.SSE11.E12)	0.373	673.04	0.268	594.46	0.324	1267.50	SOUTH
in space: 1519SSE Perim Spc (G.SSE11)							
1519SSW Wall (G.W12.E13)	0.373	476.31	0.268	420.69	0.324	897.00	SOUTH
in space: 1519West Perim Spc (G.W12)							
1519SSW Wall (G.14.E17)	0.000	0.00	0.268	327.78	0.268	327.78	SOUTH
in space: 1519Plnm (G.14)							
1519SSW Wall (G.14.E19)	0.000	0.00	0.268	389.61	0.268	389.61	SOUTH
in space: 1519Plnm (G.14)							
92SSW Wall (G.W4.E7)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 92West Perim Spc (G.W4)							
92SSW Wall (G.SW5.E10)	0.000	0.00	0.268	366.80	0.268	366.80	SOUTH
in space: 92SW Perim Spc (G.SW5)							
8ASSW Wall (G.SSW11.E15)	0.000	0.00	0.268	232.80	0.268	232.80	SOUTH
in space: 8ASSW Perim Spc (G.SSW11)							
92SSW Wall (G.S6.E12)	0.000	0.00	0.268	663.60	0.268	663.60	SOUTH
in space: 92South Perim Spc (G.S6)							
92SSW Wall (G.ESE11.E13)	0.000	0.00	0.268	242.90	0.268	242.90	SOUTH
in space: 92ESE Perim Spc (G.ESE11)							
1519SSW Wall (G.14.E21)	0.000	0.00	0.268	150.12	0.268	150.12	SOUTH
in space: 1519Plnm (G.14)							
68SSW Wall (G.ESE3.E8)	0.000	0.00	0.268	212.80	0.268	212.80	SOUTH
in space: 68ESE Perim Spc (G.ESE3)							
92SSW Wall (G.12.E17)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 92Plnm (G.12)							
92SSW Wall (G.12.E19)	0.000	0.00	0.268	147.20	0.268	147.20	SOUTH
in space: 92Plnm (G.12)							
28SSW Wall (G.S9.E8)	0.410	200.90	0.268	156.80	0.348	357.70	SOUTH
in space: 28South Perim Spc (G.S9)							
92SSW Wall (G.12.E21)	0.000	0.00	0.268	34.70	0.268	34.70	SOUTH
in space: 92Plnm (G.12)							
68SSW Wall (G.ESE3.E10)	0.000	0.00	0.268	49.00	0.268	49.00	SOUTH
in space: 68ESE Perim Spc (G.ESE3)							
28SSW Wall (G.SSW10.E9)	0.411	197.80	0.268	323.70	0.322	521.50	SOUTH
in space: 28SSW Perim Spc (G.SSW10)							
28SSW Wall (G.SW11.E10)	0.410	215.60	0.268	304.50	0.327	520.10	SOUTH
in space: 28SW Perim Spc (G.SW11)							
68SSW Wall (G.W4.E13)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 68West Perim Spc (G.W4)							
68SSW Wall (G.SW5.E16)	0.373	188.64	0.268	178.16	0.322	366.80	SOUTH
in space: 68SW Perim Spc (G.SW5)							
28SSW Wall (G.13.E14)	0.000	0.00	0.268	199.90	0.268	199.90	SOUTH
in space: 28Plnm (G.13)							
68SSW Wall (G.S6.E18)	0.373	268.20	0.268	253.30	0.322	521.50	SOUTH
in space: 68South Perim Spc (G.S6)							
Exterior Wall 887	0.572	841.00	0.268	59.00	0.552	900.00	SOUTH
in space: 25SSW Perim Spc (G.SSW5)							
6MCSSW Wall (G.WSW1.E2)	0.000	0.00	0.307	4003.29	0.307	4003.29	SOUTH
in space: 6MCWSW Perim Spc (G.WSW1)							
1MSSW Wall (G.SW3.E6)	0.985	52.50	0.307	530.28	0.368	582.78	SOUTH
in space: 1MSW Perim Spc (G.SW3)							
1MWest Wall (G.SW3.E5)	0.972	225.00	0.307	166.28	0.690	391.28	SOUTH-WEST
in space: 1MSW Perim Spc (G.SW3)							
GWest Wall (G.W8.E12)	0.964	450.00	0.307	283.65	0.710	733.65	SOUTH-WEST
in space: GWest Perim Spc (G.W8)							

						(CONTINUED)	
25West Wall (T.W39.E40)	0.963	542.50	0.307	313.43	0.723	855.92	SOUTH-WEST
in space: 25West Perim Spc (T.W39)							
6MCWest Wall (G.WSW1.E1)	0.000	0.00	0.307	1760.76	0.307	1760.76	SOUTH-WEST
in space: 6MCWSW Perim Spc (G.WSW1)							
GWest Wall (G.18.E22)	0.000	0.00	0.268	97.82	0.268	97.82	SOUTH-WEST
in space: GPlnm (G.18)							
25West Wall (G.W7.E10)	0.963	542.50	0.307	313.43	0.723	855.92	SOUTH-WEST
in space: 25West Perim Spc (G.W7)							
25West Wall (M.W23.E25)	0.963	1085.00	0.307	626.85	0.723	1711.85	SOUTH-WEST
in space: 25West Perim Spc (M.W23)							
6MCWest Wall (G.11.E17)	0.000	0.00	0.268	97.82	0.268	97.82	SOUTH-WEST
in space: 6MCPlnm (G.11)							
Exterior Wall 886	0.000	0.00	0.268	2988.00	0.268	2988.00	WEST
in space: 93MERSpace							
6MCWNW Wall (G.N2.E4)	0.000	0.00	0.268	1036.82	0.268	1036.82	WEST
in space: 6MCNorth Perim Spc (G.N2)							
10AWN Wall (G.N8.E9)	0.373	337.61	0.268	144.69	0.342	482.30	WEST
in space: 10ANorth Perim Spc (G.N8)							
25WNW Wall (G.W4.E6)	0.000	0.00	0.307	448.88	0.307	448.88	WEST
in space: 25West Perim Spc (G.W4)							
2026WNW Wall (G.SW11.E11)	0.373	97.56	0.268	120.84	0.315	218.40	WEST
in space: 2026SW Perim Spc (G.SW11)							
2936WNW Wall (M.SW24.E27)	0.373	780.50	0.268	442.54	0.335	1223.04	WEST
in space: 2936SW Perim Spc (M.SW24)							
70WNW Wall (G.12.E27)	0.000	0.00	0.268	27.50	0.268	27.50	WEST
in space: 70Plnm (G.12)							
5765WNW Wall (M.26.E44)	0.000	0.00	0.268	1112.40	0.268	1112.40	WEST
in space: 5765Plnm (M.26)							
7179WNW Wall (M.NNW13.E29)	0.415	1263.59	0.268	72.91	0.407	1336.50	WEST
in space: 7179NNW Perim Spc (M.NNW13)							
2936WNW Wall (M.WNW25.E28)	0.373	1671.07	0.268	947.49	0.335	2618.56	WEST
in space: 2936WNW Perim Spc (M.WNW25)							
7179WNW Wall (M.NNW13.E31)	0.408	1943.99	0.268	136.09	0.399	2080.08	WEST
in space: 7179NNW Perim Spc (M.NNW13)							
5765WNW Wall (M.26.E46)	0.000	0.00	0.268	268.20	0.268	268.20	WEST
in space: 5765Plnm (M.26)							
2936WNW Wall (M.26.E29)	0.000	0.00	0.268	1401.60	0.268	1401.60	WEST
in space: 2936Plnm (M.26)							
7179WNW Wall (M.W14.E34)	0.373	2292.66	0.268	1357.20	0.334	3649.86	WEST
in space: 7179West Perim Spc (M.W14)							
7179WNW Wall (M.SW15.E35)	0.373	909.73	0.268	538.55	0.334	1448.28	WEST
in space: 7179SW Perim Spc (M.SW15)							
10AWN Wall (G.N8.E11)	0.373	16.17	0.268	6.93	0.342	23.10	WEST
in space: 10ANorth Perim Spc (G.N8)							
25WNW Wall (M.W20.E21)	0.000	0.00	0.307	897.75	0.307	897.75	WEST
in space: 25West Perim Spc (M.W20)							
1519WNW Wall (G.W12.E14)	0.373	853.67	0.268	511.33	0.334	1365.00	WEST
in space: 1519West Perim Spc (G.W12)							
3744WNW Wall (M.NNW18.E17)	0.405	2744.00	0.268	282.24	0.393	3026.24	WEST
in space: 3744NNW Perim Spc (M.NNW18)							
5765WNW Wall (M.26.E52)	0.000	0.00	0.268	196.20	0.268	196.20	WEST
in space: 5765Plnm (M.26)							
2026WNW Wall (G.14.E15)	0.000	0.00	0.268	69.48	0.268	69.48	WEST
in space: 2026Plnm (G.14)							
66WNW Wall (T.NNW27.E54)	0.407	237.60	0.268	90.00	0.369	327.60	WEST
in space: 66NNW Perim Spc (T.NNW27)							
1519WNW Wall (G.WNW13.E15)	0.373	626.65	0.268	375.35	0.334	1002.00	WEST
in space: 1519WNW Perim Spc (G.WNW13)							

(CONTINUED)						
66WNW Wall (T.NNW27.E56)	0.373	73.95	0.268	78.65	0.319	152.60 WEST
in space: 66NNW Perim Spc (T.NNW27)						
7179WNW Wall (M.24.E45)	0.000	0.00	0.268	1061.10	0.268	1061.10 WEST
in space: 7179Plnm (M.24)						
2026WNW Wall (G.14.E17)	0.000	0.00	0.268	88.20	0.268	88.20 WEST
in space: 2026Plnm (G.14)						
7179WNW Wall (M.24.E47)	0.000	0.00	0.268	268.20	0.268	268.20 WEST
in space: 7179Plnm (M.24)						
1519WNW Wall (G.14.E16)	0.000	0.00	0.268	208.44	0.268	208.44 WEST
in space: 1519Plnm (G.14)						
66WNW Wall (T.W28.E59)	0.373	260.51	0.268	277.09	0.319	537.60 WEST
in space: 66West Perim Spc (T.W28)						
66WNW Wall (T.SW29.E60)	0.373	101.08	0.268	107.52	0.319	208.60 WEST
in space: 66SW Perim Spc (T.SW29)						
GWNW Wall (G.NW2.E4)	0.572	463.85	0.268	17.69	0.561	481.54 WEST
in space: GNW Perim Spc (G.NW2)						
1519WNW Wall (G.14.E18)	0.000	0.00	0.268	426.06	0.268	426.06 WEST
in space: 1519Plnm (G.14)						
Exterior Wall 896	0.000	0.00	0.268	1080.00	0.268	1080.00 WEST
in space: 6MC Top Spc						
10AWNW Wall (G.10.E15)	0.000	0.00	0.268	1608.46	0.268	1608.46 WEST
in space: 10APlnm (G.10)						
7179WNW Wall (M.24.E55)	0.000	0.00	0.268	247.50	0.268	247.50 WEST
in space: 7179Plnm (M.24)						
2026WNW Wall (M.WNW21.E23)	0.373	1207.02	0.268	722.98	0.334	1930.00 WEST
in space: 2026WNW Perim Spc (M.WNW21)						
8087WNW Wall (M.NNW13.E29)	0.415	1123.19	0.268	64.81	0.407	1188.00 WEST
in space: 8087NNW Perim Spc (M.NNW13)						
3744WNW Wall (M.SW24.E27)	0.373	780.50	0.268	442.54	0.335	1223.04 WEST
in space: 3744SW Perim Spc (M.SW24)						
8087WNW Wall (M.NNW13.E31)	0.408	1727.99	0.268	120.97	0.399	1848.96 WEST
in space: 8087NNW Perim Spc (M.NNW13)						
3744WNW Wall (M.WNW25.E28)	0.373	1671.07	0.268	947.49	0.335	2618.56 WEST
in space: 3744WNW Perim Spc (M.WNW25)						
3744WNW Wall (M.26.E29)	0.000	0.00	0.268	1401.60	0.268	1401.60 WEST
in space: 3744Plnm (M.26)						
8087WNW Wall (M.W14.E34)	0.373	2037.92	0.268	1206.40	0.334	3244.32 WEST
in space: 8087West Perim Spc (M.W14)						
8087WNW Wall (M.SW15.E35)	0.373	808.65	0.268	478.71	0.334	1287.36 WEST
in space: 8087SW Perim Spc (M.SW15)						
8AWNW Wall (G.NW1.E1)	0.000	0.00	0.268	670.80	0.268	670.80 WEST
in space: 8ANW Perim Spc (G.NW1)						
66WNW Wall (T.39.E70)	0.000	0.00	0.268	123.60	0.268	123.60 WEST
in space: 66Plnm (T.39)						
10AWNW Wall (G.10.E17)	0.000	0.00	0.268	3287.76	0.268	3287.76 WEST
in space: 10APlnm (G.10)						
66WNW Wall (T.39.E72)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 66Plnm (T.39)						
1MWNW Wall (G.SW4.E7)	0.000	0.00	0.307	178.40	0.307	178.40 WEST
in space: 1MSW Perim Spc (G.SW4)						
45WNW Wall (T.NNW31.E33)	0.405	343.00	0.268	197.40	0.355	540.40 WEST
in space: 45NNW Perim Spc (T.NNW31)						
1519WNW Wall (M.WNW20.E24)	0.373	1207.02	0.268	722.98	0.334	1930.00 WEST
in space: 1519WNW Perim Spc (M.WNW20)						
2026WNW Wall (M.WNW23.E28)	0.373	1044.42	0.268	625.58	0.334	1670.00 WEST
in space: 2026WNW Perim Spc (M.WNW23)						
25WNW Wall (M.SSW21.E24)	0.000	0.00	0.307	878.50	0.307	878.50 WEST
in space: 25SSW Perim Spc (M.SSW21)						

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8087WNW Wall (M.24.E45)	0.000	0.00	0.268	943.20	0.268	943.20 WEST
in space: 8087Plnm (M.24)						
66WNW Wall (T.39.E78)	0.000	0.00	0.268	21.80	0.268	21.80 WEST
in space: 66Plnm (T.39)						
8087WNW Wall (M.24.E47)	0.000	0.00	0.268	238.40	0.268	238.40 WEST
in space: 8087Plnm (M.24)						
8AWNW Wall (G.WSW2.E4)	0.000	0.00	0.268	189.60	0.268	189.60 WEST
in space: 8AWSW Perim Spc (G.WSW2)						
67MCWNW Wall (G.NNW1.E1)	0.000	0.00	0.268	655.20	0.268	655.20 WEST
in space: 67MCNNW Perim Spc (G.NNW1)						
2026WNW Wall (M.SW25.E31)	0.373	487.81	0.268	292.19	0.334	780.00 WEST
in space: 2026SW Perim Spc (M.SW25)						
67MCWNW Wall (G.NNW1.E3)	0.000	0.00	0.268	305.20	0.268	305.20 WEST
in space: 67MCNNW Perim Spc (G.NNW1)						
10MWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	1948.22	0.268	1948.22 WEST
in space: 10MWNW Perim Spc (G.WNW1)						
25WNW Wall (G.SSW5.E9)	0.000	0.00	0.307	439.25	0.307	439.25 WEST
in space: 25SSW Perim Spc (G.SSW5)						
67MCWNW Wall (G.W2.E6)	0.000	0.00	0.268	1075.20	0.268	1075.20 WEST
in space: 67MCWest Perim Spc (G.W2)						
8087WNW Wall (M.24.E55)	0.000	0.00	0.268	220.00	0.268	220.00 WEST
in space: 8087Plnm (M.24)						
67MCWNW Wall (G.SW3.E7)	0.000	0.00	0.268	417.20	0.268	417.20 WEST
in space: 67MCSW Perim Spc (G.SW3)						
88WNW Wall (T.NNW25.E57)	0.415	140.40	0.268	52.10	0.375	192.50 WEST
in space: 88NNW Perim Spc (T.NNW25)						
10MWNW Wall (G.SSW2.E3)	0.000	0.00	0.268	242.07	0.268	242.07 WEST
in space: 10MSSW Perim Spc (G.SSW2)						
88WNW Wall (T.NNW25.E59)	0.408	216.00	0.268	83.60	0.369	299.60 WEST
in space: 88NNW Perim Spc (T.NNW25)						
2026WNW Wall (M.28.E35)	0.000	0.00	0.268	347.40	0.268	347.40 WEST
in space: 2026Plnm (M.28)						
45WNW Wall (T.SW37.E43)	0.373	97.56	0.268	120.84	0.315	218.40 WEST
in space: 45SW Perim Spc (T.SW37)						
88WNW Wall (T.W26.E62)	0.373	254.74	0.268	270.96	0.319	525.70 WEST
in space: 88West Perim Spc (T.W26)						
88WNW Wall (T.SW27.E63)	0.373	101.08	0.268	107.52	0.319	208.60 WEST
in space: 88SW Perim Spc (T.SW27)						
45WNW Wall (T.WNW38.E44)	0.373	208.88	0.268	258.72	0.315	467.60 WEST
in space: 45WNW Perim Spc (T.WNW38)						
45WNW Wall (T.39.E45)	0.000	0.00	0.268	175.20	0.268	175.20 WEST
in space: 45Plnm (T.39)						
GWNW Wall (G.18.E33)	0.000	0.00	0.268	199.40	0.268	199.40 WEST
in space: GPlnm (G.18)						
2026WNW Wall (M.28.E37)	0.000	0.00	0.268	441.00	0.268	441.00 WEST
in space: 2026Plnm (M.28)						
8AWNW Wall (G.WSW2.E7)	0.494	18.00	0.268	237.60	0.284	255.60 WEST
in space: 8AWSW Perim Spc (G.WSW2)						
46MCWNW Wall (T.NNW31.E33)	0.000	0.00	0.268	694.80	0.268	694.80 WEST
in space: 46MCNNW Perim Spc (T.NNW31)						
68WNW Wall (G.NNW1.E1)	0.403	280.00	0.268	7.70	0.400	287.70 WEST
in space: 68NNW Perim Spc (G.NNW1)						
GWNW Wall (G.SSW12.E19)	0.572	362.70	0.307	13.80	0.562	376.50 WEST
in space: GSSW Perim Spc (G.SSW12)						
68WNW Wall (G.NNW1.E3)	0.373	116.60	0.268	75.90	0.332	192.50 WEST
in space: 68NNW Perim Spc (G.NNW1)						
88WNW Wall (T.36.E73)	0.000	0.00	0.268	117.90	0.268	117.90 WEST
in space: 88Plnm (T.36)						

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1MWNW Wall (G.SSW5.E10)	0.000	0.00	0.307	227.60	0.307	227.60 WEST
in space: 1MSSW Perim Spc (G.SSW5)						
88WNW Wall (T.36.E75)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 88Plnm (T.36)						
10MWNW Wall (G.SSW7.E8)	0.000	0.00	0.268	2557.77	0.268	2557.77 WEST
in space: 10MSSW Perim Spc (G.SSW7)						
10MWNW Wall (G.N8.E9)	0.000	0.00	0.268	2009.47	0.268	2009.47 WEST
in space: 10MNorth Perim Spc (G.N8)						
2026WNW Wall (T.WNW35.E43)	0.373	241.40	0.268	299.00	0.315	540.40 WEST
in space: 2026WNW Perim Spc (T.WNW35)						
1MWNW Wall (G.NW1.E1)	0.000	0.00	0.268	540.80	0.268	540.80 WEST
in space: 1MNW Perim Spc (G.NW1)						
1519WNW Wall (M.W26.E37)	0.373	1422.78	0.268	852.22	0.334	2275.00 WEST
in space: 1519West Perim Spc (M.W26)						
1519WNW Wall (M.WNW27.E38)	0.373	1044.42	0.268	625.58	0.334	1670.00 WEST
in space: 1519WNW Perim Spc (M.WNW27)						
1519WNW Wall (M.28.E39)	0.000	0.00	0.268	347.40	0.268	347.40 WEST
in space: 1519Plnm (M.28)						
88WNW Wall (T.36.E83)	0.000	0.00	0.268	27.50	0.268	27.50 WEST
in space: 88Plnm (T.36)						
46MCWNW Wall (T.SW37.E43)	0.000	0.00	0.268	280.80	0.268	280.80 WEST
in space: 46MCSW Perim Spc (T.SW37)						
89WNW Wall (G.NNW1.E1)	0.404	504.00	0.268	35.00	0.396	539.00 WEST
in space: 89NNW Perim Spc (G.NNW1)						
46MCWNW Wall (T.WNW38.E44)	0.000	0.00	0.268	601.20	0.268	601.20 WEST
in space: 46MCWNW Perim Spc (T.WNW38)						
89WNW Wall (G.NNW1.E3)	0.411	336.00	0.268	49.00	0.393	385.00 WEST
in space: 89NNW Perim Spc (G.NNW1)						
68WNW Wall (G.W4.E14)	0.373	325.63	0.268	211.97	0.332	537.60 WEST
in space: 68West Perim Spc (G.W4)						
68WNW Wall (G.SW5.E15)	0.373	126.35	0.268	82.25	0.332	208.60 WEST
in space: 68SW Perim Spc (G.SW5)						
46MCWNW Wall (T.39.E45)	0.000	0.00	0.268	175.20	0.268	175.20 WEST
in space: 46MCPlnm (T.39)						
2026WNW Wall (T.WNW37.E48)	0.373	208.88	0.268	258.72	0.315	467.60 WEST
in space: 2026WNW Perim Spc (T.WNW37)						
10MWNW Wall (G.N8.E11)	0.000	0.00	0.268	96.24	0.268	96.24 WEST
in space: 10MNorth Perim Spc (G.N8)						
89WNW Wall (G.W4.E9)	0.373	673.31	0.268	438.29	0.332	1111.60 WEST
in space: 89West Perim Spc (G.W4)						
89WNW Wall (G.SW5.E10)	0.373	252.70	0.268	164.50	0.332	417.20 WEST
in space: 89SW Perim Spc (G.SW5)						
1519WNW Wall (M.28.E41)	0.000	0.00	0.268	710.10	0.268	710.10 WEST
in space: 1519Plnm (M.28)						
47WNW Wall (G.NNW1.E1)	0.407	237.60	0.268	15.12	0.399	252.72 WEST
in space: 47NNW Perim Spc (G.NNW1)						
68WNW Wall (G.11.E21)	0.000	0.00	0.268	117.90	0.268	117.90 WEST
in space: 68Plnm (G.11)						
2026WNW Wall (T.SW39.E51)	0.373	97.56	0.268	120.84	0.315	218.40 WEST
in space: 2026SW Perim Spc (T.SW39)						
68WNW Wall (G.11.E23)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 68Plnm (G.11)						
47WNW Wall (G.NNW1.E3)	0.373	73.95	0.268	43.77	0.334	117.72 WEST
in space: 47NNW Perim Spc (G.NNW1)						
89WNW Wall (G.11.E17)	0.000	0.00	0.268	235.80	0.268	235.80 WEST
in space: 89Plnm (G.11)						
8AWNW Wall (G.SW9.E11)	0.000	0.00	0.268	128.40	0.268	128.40 WEST
in space: 8ASW Perim Spc (G.SW9)						

(CONTINUED)						
89WNW Wall (G.11.E19)	0.000	0.00	0.268	59.60	0.268	59.60 WEST
in space: 89Plnm (G.11)						
GWNW Wall (G.18.E24)	0.000	0.00	0.268	101.50	0.268	101.50 WEST
in space: GPlnm (G.18)						
47WNW Wall (G.W2.E6)	0.373	260.51	0.268	154.21	0.334	414.72 WEST
in space: 47West Perim Spc (G.W2)						
47WNW Wall (G.SW3.E7)	0.373	101.08	0.268	59.84	0.334	160.92 WEST
in space: 47SW Perim Spc (G.SW3)						
25WNW Wall (G.NW1.E1)	0.000	0.00	0.268	1183.00	0.268	1183.00 WEST
in space: 25NW Perim Spc (G.NW1)						
2026WNW Wall (T.42.E55)	0.000	0.00	0.268	69.48	0.268	69.48 WEST
in space: 2026Plnm (T.42)						
11MCWNW Wall (G.NNE1.E1)	0.000	0.00	0.268	914.82	0.268	914.82 WEST
in space: 11MCNNE Perim Spc (G.NNE1)						
89WNW Wall (G.11.E26)	0.000	0.00	0.268	55.00	0.268	55.00 WEST
in space: 89Plnm (G.11)						
2026WNW Wall (T.42.E57)	0.000	0.00	0.268	88.20	0.268	88.20 WEST
in space: 2026Plnm (T.42)						
89DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	3320.10	0.268	3320.10 WEST
in space: 89DBWNW Perim Spc (G.WNW1)						
68WNW Wall (G.11.E33)	0.000	0.00	0.268	27.50	0.268	27.50 WEST
in space: 68Plnm (G.11)						
8AWNW Wall (G.WSW10.E14)	0.000	0.00	0.268	439.20	0.268	439.20 WEST
in space: 8AWSW Perim Spc (G.WSW10)						
68DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	1891.50	0.268	1891.50 WEST
in space: 68DBWNW Perim Spc (G.WNW1)						
89DBWNW Wall (G.2.E5)	0.000	0.00	0.268	210.80	0.268	210.80 WEST
in space: 89DBPlnm (G.2)						
1519WNW Wall (T.WNW34.E47)	0.373	241.40	0.268	299.00	0.315	540.40 WEST
in space: 1519WNW Perim Spc (T.WNW34)						
6MCWNW Wall (G.NW3.E6)	0.000	0.00	0.268	1924.20	0.268	1924.20 WEST
in space: 6MCNW Perim Spc (G.NW3)						
GWNW Wall (G.W5.E7)	0.572	370.64	0.307	14.11	0.562	384.75 WEST
in space: GWest Perim Spc (G.W5)						
90WNW Wall (G.NNW1.E1)	0.373	326.48	0.268	212.52	0.332	539.00 WEST
in space: 90NNW Perim Spc (G.NNW1)						
11MCWNW Wall (G.WNW2.E5)	0.000	0.00	0.268	186.05	0.268	186.05 WEST
in space: 11MCWNW Perim Spc (G.WNW2)						
90WNW Wall (G.NNW1.E3)	0.373	233.20	0.268	151.80	0.332	385.00 WEST
in space: 90NNW Perim Spc (G.NNW1)						
27MCWNW Wall (G.WNW7.E3)	0.000	0.00	0.268	694.80	0.268	694.80 WEST
in space: 27MCWNW Perim Spc (G.WNW7)						
68DBWNW Wall (G.2.E7)	0.000	0.00	0.268	126.10	0.268	126.10 WEST
in space: 68DBPlnm (G.2)						
47WNW Wall (G.13.E18)	0.000	0.00	0.268	123.60	0.268	123.60 WEST
in space: 47Plnm (G.13)						
25WNW Wall (T.NW33.E31)	0.000	0.00	0.268	1183.00	0.268	1183.00 WEST
in space: 25NW Perim Spc (T.NW33)						
47WNW Wall (G.13.E20)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 47Plnm (G.13)						
90WNW Wall (G.W4.E9)	0.373	673.31	0.268	438.29	0.332	1111.60 WEST
in space: 90West Perim Spc (G.W4)						
90WNW Wall (G.SW5.E10)	0.373	252.70	0.268	164.50	0.332	417.20 WEST
in space: 90SW Perim Spc (G.SW5)						
11MCWNW Wall (G.SW3.E7)	0.000	0.00	0.268	171.83	0.268	171.83 WEST
in space: 11MCSW Perim Spc (G.SW3)						
1MWNW Wall (G.N2.E4)	0.000	0.00	0.268	256.80	0.268	256.80 WEST
in space: 1MNorth Perim Spc (G.N2)						

(CONTINUED)						
69WNW Wall (G.NNW1.E1)	0.403	280.00	0.268	7.70	0.400	287.70 WEST
in space: 69NNW Perim Spc (G.NNW1)						
11MCWNW Wall (G.WSW5.E9)	0.000	0.00	0.268	1512.06	0.268	1512.06 WEST
in space: 11MCWSW Perim Spc (G.WSW5)						
69WNW Wall (G.NNW1.E3)	0.373	116.60	0.268	75.90	0.332	192.50 WEST
in space: 69NNW Perim Spc (G.NNW1)						
27MCWNW Wall (G.WNW9.E8)	0.000	0.00	0.268	601.20	0.268	601.20 WEST
in space: 27MCWNW Perim Spc (G.WNW9)						
90WNW Wall (G.11.E17)	0.000	0.00	0.268	235.80	0.268	235.80 WEST
in space: 90Plnm (G.11)						
8MCWNW Wall (G.NNE1.E1)	0.000	0.00	0.268	473.00	0.268	473.00 WEST
in space: 8MANNE Perim Spc (G.NNE1)						
90WNW Wall (G.11.E19)	0.000	0.00	0.268	59.60	0.268	59.60 WEST
in space: 90Plnm (G.11)						
47WNW Wall (G.13.E26)	0.000	0.00	0.268	21.80	0.268	21.80 WEST
in space: 47Plnm (G.13)						
25WNW Wall (M.NW17.E16)	0.000	0.00	0.268	2366.00	0.268	2366.00 WEST
in space: 25NW Perim Spc (M.NW17)						
4856WNW Wall (M.NNW14.E28)	0.407	2138.39	0.268	136.09	0.399	2274.48 WEST
in space: 4856NNW Perim Spc (M.NNW14)						
27MCWNW Wall (G.SW11.E11)	0.000	0.00	0.268	280.80	0.268	280.80 WEST
in space: 27MCSW Perim Spc (G.SW11)						
4856WNW Wall (M.NNW14.E30)	0.373	665.51	0.268	393.97	0.334	1059.48 WEST
in space: 4856NNW Perim Spc (M.NNW14)						
6MCWNW Wall (G.11.E11)	0.000	0.00	0.268	85.60	0.268	85.60 WEST
in space: 6MCPlnm (G.11)						
90WNW Wall (G.11.E26)	0.000	0.00	0.268	55.00	0.268	55.00 WEST
in space: 90Plnm (G.11)						
25WNW Wall (T.N34.E34)	0.000	0.00	0.268	561.75	0.268	561.75 WEST
in space: 25North Perim Spc (T.N34)						
91WNW Wall (G.NNW1.E1)	0.405	238.00	0.268	31.50	0.389	269.50 WEST
in space: 91NNW Perim Spc (G.NNW1)						
4856WNW Wall (M.W15.E33)	0.373	2344.55	0.268	1387.93	0.334	3732.48 WEST
in space: 4856West Perim Spc (M.W15)						
91WNW Wall (G.NNW1.E3)	0.411	168.00	0.268	24.50	0.393	192.50 WEST
in space: 91NNW Perim Spc (G.NNW1)						
69WNW Wall (G.W4.E14)	0.373	325.63	0.268	211.97	0.332	537.60 WEST
in space: 69West Perim Spc (G.W4)						
69WNW Wall (G.SW5.E15)	0.373	126.35	0.268	82.25	0.332	208.60 WEST
in space: 69SW Perim Spc (G.SW5)						
4856WNW Wall (M.SW16.E34)	0.373	909.73	0.268	538.55	0.334	1448.28 WEST
in space: 4856SW Perim Spc (M.SW16)						
11DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	4529.80	0.268	4529.80 WEST
in space: 11DBWNW Perim Spc (G.WNW1)						
91WNW Wall (G.W4.E8)	0.000	0.00	0.268	555.80	0.268	555.80 WEST
in space: 91West Perim Spc (G.W4)						
91WNW Wall (G.SW5.E9)	0.000	0.00	0.268	208.60	0.268	208.60 WEST
in space: 91SW Perim Spc (G.SW5)						
28WNW Wall (G.NNW5.E1)	0.405	343.00	0.268	197.40	0.355	540.40 WEST
in space: 28NNW Perim Spc (G.NNW5)						
1519WNW Wall (T.W40.E60)	0.373	284.56	0.268	352.44	0.315	637.00 WEST
in space: 1519West Perim Spc (T.W40)						
1519WNW Wall (T.WNW41.E61)	0.373	208.88	0.268	258.72	0.315	467.60 WEST
in space: 1519WNW Perim Spc (T.WNW41)						
69WNW Wall (G.11.E21)	0.000	0.00	0.268	117.90	0.268	117.90 WEST
in space: 69Plnm (G.11)						
1519WNW Wall (T.42.E62)	0.000	0.00	0.268	69.48	0.268	69.48 WEST
in space: 1519Plnm (T.42)						

(CONTINUED)						
69WNW Wall (G.11.E23)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 69Plnm (G.11)						
91WNW Wall (G.12.E16)	0.000	0.00	0.268	117.90	0.268	117.90 WEST
in space: 91Plnm (G.12)						
25WNW Wall (G.N2.E4)	0.000	0.00	0.268	561.75	0.268	561.75 WEST
in space: 25North Perim Spc (G.N2)						
91WNW Wall (G.12.E18)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 91Plnm (G.12)						
1519WNW Wall (T.42.E64)	0.000	0.00	0.268	142.02	0.268	142.02 WEST
in space: 1519Plnm (T.42)						
25WNW Wall (T.W36.E36)	0.000	0.00	0.307	448.88	0.307	448.88 WEST
in space: 25West Perim Spc (T.W36)						
8MCWNW Wall (G.SSW2.E7)	0.373	899.60	0.268	47.40	0.368	947.00 WEST
in space: 8MASSW Perim Spc (G.SSW2)						
4856WNW Wall (M.26.E44)	0.000	0.00	0.268	1112.40	0.268	1112.40 WEST
in space: 4856Plnm (M.26)						
1519WNW Wall (G.WNW6.E1)	0.373	724.21	0.268	433.79	0.334	1158.00 WEST
in space: 1519WNW Perim Spc (G.WNW6)						
4856WNW Wall (M.26.E46)	0.000	0.00	0.268	268.20	0.268	268.20 WEST
in space: 4856Plnm (M.26)						
10AWNW Wall (G.WNW1.E1)	0.373	327.32	0.268	140.28	0.342	467.60 WEST
in space: 10AWNW Perim Spc (G.WNW1)						
91WNW Wall (G.12.E26)	0.000	0.00	0.268	27.50	0.268	27.50 WEST
in space: 91Plnm (G.12)						
28WNW Wall (G.SW11.E11)	0.373	97.56	0.268	120.84	0.315	218.40 WEST
in space: 28SW Perim Spc (G.SW11)						
92WNW Wall (G.NNW1.E1)	0.405	238.00	0.268	31.50	0.389	269.50 WEST
in space: 92NNW Perim Spc (G.NNW1)						
69WNW Wall (G.11.E33)	0.000	0.00	0.268	27.50	0.268	27.50 WEST
in space: 69Plnm (G.11)						
92WNW Wall (G.NNW1.E3)	0.411	168.00	0.268	24.50	0.393	192.50 WEST
in space: 92NNW Perim Spc (G.NNW1)						
28WNW Wall (G.WNW12.E12)	0.373	208.88	0.268	258.72	0.315	467.60 WEST
in space: 28WNW Perim Spc (G.WNW12)						
70WNW Wall (G.NNW1.E1)	0.415	140.40	0.268	8.10	0.407	148.50 WEST
in space: 70NNW Perim Spc (G.NNW1)						
28WNW Wall (G.13.E13)	0.000	0.00	0.268	175.20	0.268	175.20 WEST
in space: 28Plnm (G.13)						
70WNW Wall (G.NNW1.E3)	0.408	216.00	0.268	15.12	0.399	231.12 WEST
in space: 70NNW Perim Spc (G.NNW1)						
92WNW Wall (G.W4.E8)	0.000	0.00	0.268	555.80	0.268	555.80 WEST
in space: 92West Perim Spc (G.W4)						
92WNW Wall (G.SW5.E9)	0.000	0.00	0.268	208.60	0.268	208.60 WEST
in space: 92SW Perim Spc (G.SW5)						
6MCWNW Wall (G.11.E15)	0.000	0.00	0.268	164.50	0.268	164.50 WEST
in space: 6MCPlnm (G.11)						
4856WNW Wall (M.26.E52)	0.000	0.00	0.268	196.20	0.268	196.20 WEST
in space: 4856Plnm (M.26)						
70WNW Wall (G.W2.E6)	0.373	254.74	0.268	150.80	0.334	405.54 WEST
in space: 70West Perim Spc (G.W2)						
70WNW Wall (G.SW3.E7)	0.373	101.08	0.268	59.84	0.334	160.92 WEST
in space: 70SW Perim Spc (G.SW3)						
10AWNW Wall (G.SSW2.E3)	0.373	40.67	0.268	17.43	0.342	58.10 WEST
in space: 10ASSW Perim Spc (G.SSW2)						
5765WNW Wall (M.NNW14.E28)	0.407	2138.39	0.268	136.09	0.399	2274.48 WEST
in space: 5765NNW Perim Spc (M.NNW14)						
92WNW Wall (G.12.E16)	0.000	0.00	0.268	117.90	0.268	117.90 WEST
in space: 92Plnm (G.12)						

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REPORT- LV-D Details of Exterior Surfaces

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(CONTINUED)						
GWNW Wall (G.NW1.E1)	0.572	976.82	0.268	37.18	0.561	1014.00 WEST
in space: GNW Perim Spc (G.NW1)						
92WNW Wall (G.12.E18)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 92Plnm (G.12)						
5765WNW Wall (M.NNW14.E30)	0.373	665.51	0.268	393.97	0.334	1059.48 WEST
in space: 5765NNW Perim Spc (M.NNW14)						
2936WNW Wall (M.NNW18.E17)	0.405	2744.00	0.268	282.24	0.393	3026.24 WEST
in space: 2936NNW Perim Spc (M.NNW18)						
2026WNW Wall (G.WNW7.E3)	0.373	241.40	0.268	299.00	0.315	540.40 WEST
in space: 2026WNW Perim Spc (G.WNW7)						
5765WNW Wall (M.W15.E33)	0.373	2344.55	0.268	1387.93	0.334	3732.48 WEST
in space: 5765West Perim Spc (M.W15)						
5765WNW Wall (M.SW16.E34)	0.373	909.73	0.268	538.55	0.334	1448.28 WEST
in space: 5765SW Perim Spc (M.SW16)						
25WNW Wall (M.N18.E19)	0.000	0.00	0.268	1123.50	0.268	1123.50 WEST
in space: 25North Perim Spc (M.N18)						
70WNW Wall (G.12.E17)	0.000	0.00	0.268	117.90	0.268	117.90 WEST
in space: 70Plnm (G.12)						
92WNW Wall (G.12.E26)	0.000	0.00	0.268	27.50	0.268	27.50 WEST
in space: 92Plnm (G.12)						
25WNW Wall (T.SSW37.E39)	0.000	0.00	0.307	439.25	0.307	439.25 WEST
in space: 25SSW Perim Spc (T.SSW37)						
70WNW Wall (G.12.E19)	0.000	0.00	0.268	29.80	0.268	29.80 WEST
in space: 70Plnm (G.12)						
6MCRoof	0.000	0.00	0.049	27215.10	0.049	27215.10 WEST
in space: 6MCPlnm (G.11)						
10AWNW Wall (G.SSW7.E8)	0.373	429.73	0.268	184.17	0.342	613.90 WEST
in space: 10ASSW Perim Spc (G.SSW7)						
2026WNW Wall (G.WNW9.E8)	0.373	208.88	0.268	258.72	0.315	467.60 WEST
in space: 2026WNW Perim Spc (G.WNW9)						
6MCWNW Wall (G.WSW1.E3)	0.000	0.00	0.307	1540.88	0.307	1540.88 WEST
in space: 6MCWSW Perim Spc (G.WSW1)						
92 Roof	0.000	0.00	0.049	7656.44	0.049	7656.44 ROOF
in space: 92Plnm (G.12)						
27MCRoof1	0.000	0.00	0.049	1244.85	0.049	1244.85 ROOF
in space: 27MCWNW Perim Spc (G.WNW7)						
Exterior Wall 897	0.000	0.00	0.049	2916.00	0.049	2916.00 ROOF
in space: 6MC Top Spc						
Exterior Wall 898	0.000	0.00	0.049	29904.78	0.049	29904.78 ROOF
in space: Roof Spc (6MC)						
27MCRoof2	0.000	0.00	0.049	3970.01	0.049	3970.01 ROOF
in space: 27MCNNE Perim Spc (G.NNE8)						
SC3Flr (B.N1.U1)	0.000	0.00	0.010	7871.45	0.010	7871.45 UNDERGRND
in space: SC3North Perim Spc (B.N1)						
SC3WNW Wall (B.N1.U2)	0.000	0.00	0.194	539.00	0.194	539.00 UNDERGRND
in space: SC3North Perim Spc (B.N1)						
SC3ESE Wall (B.N1.U3)	0.000	0.00	0.194	669.00	0.194	669.00 UNDERGRND
in space: SC3North Perim Spc (B.N1)						
SC3NNE Wall (B.N1.U4)	0.000	0.00	0.194	600.00	0.194	600.00 UNDERGRND
in space: SC3North Perim Spc (B.N1)						
SC3WNW Wall (B.N1.U5)	0.000	0.00	0.194	457.50	0.194	457.50 UNDERGRND
in space: SC3North Perim Spc (B.N1)						
SC3NNE Wall (B.N1.U6)	0.000	0.00	0.194	605.00	0.194	605.00 UNDERGRND
in space: SC3North Perim Spc (B.N1)						
SC3Flr (B.SSW2.U7)	0.000	0.00	0.010	7891.75	0.010	7891.75 UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)						
SC3SSW Wall (B.SSW2.U8)	0.000	0.00	0.194	890.00	0.194	890.00 UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)						

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SC3WNW Wall (B.SSW2.U9)	0.000	0.00	0.194	409.00	0.194	409.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							



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SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
SC3SSW Wall (B.SSW2.U10)	0.000	0.00	0.194	315.00	0.194	315.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3ESE Wall (B.SSW2.U11)	0.000	0.00	0.194	957.00	0.194	957.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3WNW Wall (B.SSW2.U12)	0.000	0.00	0.194	548.00	0.194	548.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3Flr (B.C3.U13)	0.000	0.00	0.010	173.13	0.010	173.13	UNDERGRND
in space: SC3Core Spc (B.C3)							
SC3Flr (B.C4.U14)	0.000	0.00	0.010	177.00	0.010	177.00	UNDERGRND
in space: SC3Core Spc (B.C4)							
SC3Flr (B.C5.U15)	0.000	0.00	0.010	223.75	0.010	223.75	UNDERGRND
in space: SC3Core Spc (B.C5)							
SC3Flr (B.C6.U16)	0.000	0.00	0.010	483.50	0.010	483.50	UNDERGRND
in space: SC3Core Spc (B.C6)							
SC3Flr (B.ESE7.U17)	0.000	0.00	0.010	311.13	0.010	311.13	UNDERGRND
in space: SC3ESE Perim Spc (B.ESE7)							
SC3ESE Wall (B.ESE7.U18)	0.000	0.00	0.194	327.50	0.194	327.50	UNDERGRND
in space: SC3ESE Perim Spc (B.ESE7)							
SC2Flr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW1)							
SC2WNW Wall (B.WNW1.U2)	0.000	0.00	0.139	2024.40	0.139	2024.40	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW1)							
SC2Flr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: SC2NNE Perim Spc (B.NNE2)							
SC2NNE Wall (B.NNE2.U4)	0.000	0.00	0.139	2627.13	0.139	2627.13	UNDERGRND
in space: SC2NNE Perim Spc (B.NNE2)							
SC2Flr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: SC2Core Spc (B.C3)							
SC2Flr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: SC2Core Spc (B.C4)							
SC2Flr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2SSW Wall (B.SW5.U8)	0.000	0.00	0.139	624.40	0.139	624.40	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2WNW Wall (B.SW5.U9)	0.000	0.00	0.139	189.00	0.139	189.00	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2Flr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW6)							
SC2WNW Wall (B.WNW6.U11)	0.000	0.00	0.139	311.50	0.139	311.50	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW6)							
SC2Flr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2SSW Wall (B.SSW7.U13)	0.000	0.00	0.139	2002.70	0.139	2002.70	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2WNW Wall (B.SSW7.U14)	0.000	0.00	0.139	210.00	0.139	210.00	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2Flr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: SC2ESE Perim Spc (B.ESE8)							
SC2ESE Wall (B.ESE8.U16)	0.000	0.00	0.139	2734.90	0.139	2734.90	UNDERGRND
in space: SC2ESE Perim Spc (B.ESE8)							
SC2Flr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND

Prop Extell 221 West 57th St - 1.SIM

in space: SC2Core Spc (B.C9)							
SC2Flr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND
in space: SC2Core Spc (B.C10)							

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
SC2Flr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: SC2Core Spc (B.C11)							
SC1Flr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW1)							
SC1WNW Wall (B.WNW1.U2)	0.000	0.00	0.111	2530.50	0.111	2530.50	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW1)							
SC1Flr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: SC1NNE Perim Spc (B.NNE2)							
SC1NNE Wall (B.NNE2.U4)	0.000	0.00	0.111	3283.91	0.111	3283.91	UNDERGRND
in space: SC1NNE Perim Spc (B.NNE2)							
SC1Flr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: SC1Core Spc (B.C3)							
SC1Flr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: SC1Core Spc (B.C4)							
SC1Flr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1SSW Wall (B.SW5.U8)	0.000	0.00	0.111	780.50	0.111	780.50	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1WNW Wall (B.SW5.U9)	0.000	0.00	0.111	236.25	0.111	236.25	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1Flr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW6)							
SC1WNW Wall (B.WNW6.U11)	0.000	0.00	0.111	389.38	0.111	389.38	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW6)							
SC1Flr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1SSW Wall (B.SSW7.U13)	0.000	0.00	0.111	2503.38	0.111	2503.38	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1WNW Wall (B.SSW7.U14)	0.000	0.00	0.111	262.50	0.111	262.50	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1Flr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: SC1ESE Perim Spc (B.ESE8)							
SC1ESE Wall (B.ESE8.U16)	0.000	0.00	0.111	3418.63	0.111	3418.63	UNDERGRND
in space: SC1ESE Perim Spc (B.ESE8)							
SC1Flr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: SC1Core Spc (B.C9)							
SC1Flr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND
in space: SC1Core Spc (B.C10)							
SC1Flr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: SC1Core Spc (B.C11)							
CFlr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: CWNW Perim Spc (B.WNW1)							
CWNW Wall (B.WNW1.U2)	0.000	0.00	0.111	2530.50	0.111	2530.50	UNDERGRND
in space: CWNW Perim Spc (B.WNW1)							
CFlr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: CNNE Perim Spc (B.NNE2)							
CNNE Wall (B.NNE2.U4)	0.000	0.00	0.111	3283.91	0.111	3283.91	UNDERGRND
in space: CNNE Perim Spc (B.NNE2)							
CFlr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: CCore Spc (B.C3)							
CFlr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND

Prop Extell 221 West 57th St - 1.SIM

in space: CCore Spc (B.C4)
CFlr (B.SW5.U7)
in space: CSW Perim Spc (B.SW5)

0.000

0.00

0.010

984.00

0.010

984.00 UNDERGRND



9/17/2015

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		-W A L L + W I N D O W S-		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
CSSW Wall (B.SW5.U8)	0.000	0.00	0.111	780.50	0.111	780.50	UNDERGRND
in space: CSW Perim Spc (B.SW5)							
CWNW Wall (B.SW5.U9)	0.000	0.00	0.111	236.25	0.111	236.25	UNDERGRND
in space: CSW Perim Spc (B.SW5)							
CFlr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: CWNW Perim Spc (B.WNW6)							
CWNW Wall (B.WNW6.U11)	0.000	0.00	0.111	389.38	0.111	389.38	UNDERGRND
in space: CWNW Perim Spc (B.WNW6)							
CFlr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CSSW Wall (B.SSW7.U13)	0.000	0.00	0.111	2503.38	0.111	2503.38	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CWNW Wall (B.SSW7.U14)	0.000	0.00	0.111	262.50	0.111	262.50	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CFlr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: CESE Perim Spc (B.ESE8)							
CESE Wall (B.ESE8.U16)	0.000	0.00	0.111	3418.63	0.111	3418.63	UNDERGRND
in space: CESE Perim Spc (B.ESE8)							
CFlr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: CCore Spc (B.C9)							
CFlr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND
in space: CCore Spc (B.C10)							
CFlr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: CCore Spc (B.C11)							
GFlr (G.NW1.U1)	0.000	0.00	0.096	946.40	0.096	946.40	UNDERGRND
in space: GNW Perim Spc (G.NW1)							
GFlr (G.NW2.U2)	0.000	0.00	0.020	2684.87	0.020	2684.87	UNDERGRND
in space: GNW Perim Spc (G.NW2)							
GFlr (G.NNE3.U3)	0.000	0.00	0.077	1231.48	0.077	1231.48	UNDERGRND
in space: GNNE Perim Spc (G.NNE3)							
GFlr (G.SSW4.U4)	0.000	0.00	0.074	367.50	0.074	367.50	UNDERGRND
in space: GSSW Perim Spc (G.SSW4)							
GFlr (G.W5.U5)	0.000	0.00	0.054	837.75	0.054	837.75	UNDERGRND
in space: GWest Perim Spc (G.W5)							
GFlr (G.E6.U6)	0.000	0.00	0.073	917.16	0.073	917.16	UNDERGRND
in space: GEast Perim Spc (G.E6)							
GFlr (G.NNE7.U7)	0.000	0.00	0.017	3191.08	0.017	3191.08	UNDERGRND
in space: GNNE Perim Spc (G.NNE7)							
GFlr (G.W8.U8)	0.000	0.00	0.111	488.10	0.111	488.10	UNDERGRND
in space: GWest Perim Spc (G.W8)							
GFlr (G.SSW9.U9)	0.000	0.00	0.079	998.63	0.079	998.63	UNDERGRND
in space: GSSW Perim Spc (G.SSW9)							
GFlr (G.ESE10.U10)	0.000	0.00	0.055	449.12	0.055	449.12	UNDERGRND
in space: GESE Perim Spc (G.ESE10)							
GFlr (G.ESE11.U11)	0.000	0.00	0.065	2304.75	0.065	2304.75	UNDERGRND
in space: GESE Perim Spc (G.ESE11)							
GFlr (G.SSW12.U12)	0.000	0.00	0.083	1871.25	0.083	1871.25	UNDERGRND
in space: GSSW Perim Spc (G.SSW12)							
GFlr (G.C13.U13)	0.000	0.00	0.010	3143.80	0.010	3143.80	UNDERGRND
in space: GCore Spc (G.C13)							
GFlr (G.C14.U14)	0.000	0.00	0.010	581.17	0.010	581.17	UNDERGRND

Prop Extell 221 West 57th St - 1.SIM

in space: GCore Spc (G.C14)
GFlr (G.NNE15.U15)
in space: GNNE Perim Spc (G.NNE15)

0.000

0.00

0.040

2182.50

0.040

2182.50 UNDERGRND



9/17/2015

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
GFlr (G.C16.U16) in space: GCore Spc (G.C16)	0.000	0.00	0.010	4376.04	0.010	4376.04	UNDERGRND
GFlr (G.C17.U17) in space: GCore Spc (G.C17)	0.000	0.00	0.010	7621.67	0.010	7621.67	UNDERGRND

	AVERAGE U-VALUE/WINDOWS (BTU/HR-SQFT-F)	AVERAGE U-VALUE/WALLS (BTU/HR-SQFT-F)	AVERAGE U-VALUE WALLS+WINDOWS (BTU/HR-SQFT-F)	WINDOW AREA (SQFT)	WALL AREA (SQFT)	WINDOW+WALL AREA (SQFT)
NORTH	0.414	0.274	0.349	106004.23	90651.89	196656.17
EAST	0.375	0.277	0.311	56021.57	103923.37	159944.95
SOUTH-EAST	0.000	0.268	0.268	0.00	390.40	390.40
SOUTH	0.429	0.272	0.333	75355.34	118330.16	193685.50
SOUTH-WEST	0.964	0.305	0.593	2844.99	3660.05	6505.04
WEST	0.392	0.221	0.277	59137.36	122064.26	181201.63
ROOF	0.000	0.049	0.049	0.00	45692.09	45692.09
ALL WALLS	0.411	0.260	0.321	299363.31	439020.31	738384.13
WALLS+ROOFS	0.411	0.240	0.305	299363.31	484712.38	784076.25
UNDERGRND	0.000	0.040	0.040	0.00	198357.05	198357.05
BUILDING	0.411	0.182	0.252	299363.31	683069.44	982433.25



NUMBER OF CONSTRUCTIONS 26 DELAYED 20 QUICK 6

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
EWall Construction	0.300	0.60	1	QUICK	0
Ceilg Construction	0.847	0.70	3	DELAYED	5
IWall Construction	2.700	0.70	3	QUICK	0
IFlr Construction	0.813	0.70	3	DELAYED	5
1MGFlr Construction	0.085	0.70	3	DELAYED	7
SC3UFCons (B.N1.U2)	0.010	0.70	3	DELAYED	43
SC3UWCons (B.N1.U2)	0.194	0.70	3	DELAYED	35
SC2UWCons (B.WNW1.U2)	0.139	0.70	3	DELAYED	38
SC1UWCons (B.WNW1.U2)	0.111	0.70	3	DELAYED	39
GUFCons (G.NW1.U2)	0.096	0.70	3	DELAYED	39
GUFCons (G.NW2.U3)	0.020	0.70	3	DELAYED	42
GUFCons (G.NNE3.U4)	0.077	0.70	3	DELAYED	40
GUFCons (G.SSW4.U5)	0.074	0.70	3	DELAYED	40
GUFCons (G.W5.U6)	0.054	0.70	3	DELAYED	41
GUFCons (G.E6.U7)	0.073	0.70	3	DELAYED	40
GUFCons (G.NNE7.U8)	0.017	0.70	3	DELAYED	43
GUFCons (G.W8.U9)	0.111	0.70	3	DELAYED	39
GUFCons (G.SSW9.U10)	0.079	0.70	3	DELAYED	40
GUFCons (G.ESE10.U11)	0.055	0.70	3	DELAYED	41
GUFCons (G.ESE11.U12)	0.065	0.70	3	DELAYED	41
GUFCons (G.SSW12.U13)	0.083	0.70	3	DELAYED	40
GUFCons (G.NNE15.U16)	0.040	0.70	3	DELAYED	42
Roof Construction	0.050	0.70	3	QUICK	0
Unins Wall Cons - 1.5	0.350	0.70	3	QUICK	0
Unins Wall Cons - 2	0.350	0.70	3	QUICK	0
Unins Wall Cons - 5.5	0.350	0.70	3	QUICK	0

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
EM1 ELECTRICITY													
KWH	371326.	334628.	360406.	340137.	350743.	397237.	477834.	447330.	374696.	334764.	340798.	363465.	4493364.
MAX KW	685.8	690.2	740.0	796.6	961.4	1011.5	1060.5	1017.9	1045.3	807.2	689.2	682.9	1060.5
DAY/HR	24/ 9	25/ 9	25/18	30/18	10/14	25/13	17/ 9	27/14	5/13	9/14	15/ 9	10/ 9	7/17
EM2- ELECTRICITY													
KWH	271122.	243274.	271096.	265717.	328722.	402259.	467957.	444176.	381009.	294708.	262379.	269475.	3901893.
MAX KW	815.0	710.7	869.9	966.0	1269.7	1514.8	1614.2	1477.4	1421.7	1034.1	778.1	769.8	1614.2
DAY/HR	23/18	4/13	28/16	30/17	10/14	16/15	17/14	25/14	5/14	9/16	3/16	9/16	7/17
EM3- ELECTRICITY													
KWH	145454.	130092.	148497.	153385.	302504.	465391.	550435.	503275.	391125.	178855.	135223.	142213.	3246450.
MAX KW	402.6	401.2	602.4	887.3	1087.1	1144.6	1292.5	1089.1	1064.8	791.7	392.6	396.8	1292.5
DAY/HR	23/22	4/22	28/19	30/20	11/20	12/20	1/20	1/20	4/20	9/20	5/22	3/22	7/ 1
DM1 ELECTRICITY													
KWH	58518.	52857.	58518.	56748.	58588.	56608.	58588.	58588.	56608.	58588.	56537.	58518.	689267.
MAX KW	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1
DAY/HR	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/ 1
EM4 ELECTRICITY													
KWH	5588.	4491.	4185.	3353.	2234.	1607.	1587.	1614.	1762.	2948.	3838.	4850.	38057.
MAX KW	13.9	12.1	13.3	13.4	12.2	4.0	3.2	3.2	8.5	13.5	8.7	11.7	13.9
DAY/HR	23/ 9	4/ 9	31/22	16/20	6/ 5	1/ 9	4/ 8	15/ 8	20/ 5	29/20	22/ 9	4/ 9	1/23
EM5 ELECTRICITY													
KWH	302576.	273294.	302576.	292815.	302576.	292815.	302576.	302576.	292815.	302576.	292815.	302576.	3562583.
MAX KW	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1
FM1 NATURAL-GAS													
THERM	72178.	50066.	34892.	14619.	5287.	4371.	4496.	4505.	4452.	8641.	26711.	50971.	281189.
MAX THERM/HR	240.0	216.4	158.6	93.7	36.8	10.7	8.2	10.6	12.8	60.1	132.5	192.1	240.0
DAY/HR	23/ 9	4/ 9	1/17	2/ 9	7/ 7	13/ 8	1/20	15/ 8	20/ 8	31/ 9	22/ 9	4/ 9	1/23

		COOL LOAD	HEAT LOAD	ELEC USE	FUEL USE	----- Number of hours within each PART LOAD range -----											TOTAL
SUM		(MBTU)	(MBTU)	(KWH)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	RUN
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KW)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS
---	---	-----	-----	-----	-----	----	----	----	----	----	----	----	----	----	----	----	----
B-67M-6																	
SUM			-10704.9	0.0	12477.0	LOAD4624	581	537	509	577	636	630	366	170	78	0	8708
PEAK			-5151.8	0.0	5852.1	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			1/ 9	0/ 0	1/ 9	FUEL4584	612	546	513	583	639	629	360	166	76	0	8708
B-67M-5																	
SUM			-169.2	0.0	192.7	LOAD	0	0	0	0	37	3	0	2	10	0	52
PEAK			-5062.3	0.0	5748.3	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			1/23	0/ 0	1/23	FUEL	0	0	0	0	37	3	0	2	10	0	52
B-67M-4																	
SUM			-138.0	0.0	157.4	LOAD	0	0	0	0	47	3	0	0	0	0	50
PEAK			-3144.1	0.0	3559.4	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			1/23	0/ 0	1/23	FUEL	0	0	0	0	47	3	0	0	0	0	50
B-67M-3																	
SUM			0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0
PEAK			0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0
B-67M-2																	
SUM			0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0
PEAK			0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0
B-67M-1																	
SUM			0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0
PEAK			0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0
B-7-1																	
SUM			-8075.8	0.0	9390.9	LOAD4913	978	723	863	701	331	141	89	18	3	0	8760
PEAK			-4811.2	0.0	5452.7	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			1/23	0/ 0	1/23	FUEL4841	1041	732	871	697	330	140	89	16	3	0	8760
B-7-2																	
SUM			0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0
PEAK			0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0
B-7-3																	
SUM			0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0
PEAK			0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0
B-7-4																	
SUM			0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0
PEAK			0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0

B-7-5																
SUM	0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-7-6																
SUM	0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-6-1																
SUM	-4014.2	0.0	4684.4	LOAD1571	361	251	233	243	234	131	109	68	49	26	3276	
PEAK	-5504.9	0.0	5983.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	
MON/DAY	1/23	0/ 0	1/23	FUEL1527	404	251	230	251	227	133	109	68	49	27	3276	
B-6-2																
SUM	-1070.1	0.0	1216.5	LOAD	79	11	16	16	12	60	58	58	28	24	24	386
PEAK	-5504.9	0.0	5983.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	1/23	0/ 0	1/23	FUEL	77	13	16	14	8	57	60	63	29	22	27	386
Fake - HP Loop Boiler																
SUM	-0.1	0.0	0.1	LOAD	0	0	0	0	0	0	0	0	0	735	0	735
PEAK	-0.1	0.0	0.1	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	1/23	0/ 0	1/23	FUEL	0	0	0	0	0	0	0	0	0	663	72	735
Retail Chiller 1																
SUM	3003.1	0.0	257030.9	LOAD2834	225	120	82	71	67	149	193	162	147	3	4053	
PEAK	3972.2	0.0	305.8	ELEC2630	431	161	99	86	117	208	185	123	13	0	4053	
MON/DAY	5/13	0/ 0	7/28													
Retail Chiller 2																
SUM	3861.8	0.0	290730.1	LOAD	0	1	1	1	4	265	307	335	254	201	0	1369
PEAK	3905.4	0.0	311.4	ELEC	0	1	1	2	223	292	333	264	218	35	0	1369
MON/DAY	9/ 8	0/ 0	6/10													
Retail Chiller 3																
SUM	3310.3	0.0	249859.9	LOAD	0	0	0	0	2	254	289	300	217	133	0	1195
PEAK	3829.2	0.0	311.4	ELEC	0	0	0	0	213	272	298	227	160	25	0	1195
MON/DAY	9/14	0/ 0	6/10													
CH-94-1																
SUM	249.5	0.0	70546.0	LOAD6693	1659	392	16	0	0	0	0	0	0	0	0	8760
PEAK	179.9	0.0	17.2	ELEC 735	4514	492	375	1240	1404	0	0	0	0	0	0	8760
MON/DAY	7/ 2	0/ 0	7/17													
CH-94-2																
SUM	0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0													
C-TR-1																
SUM	14866.0		10797.2	LOAD	0	0	0	0	0	0	5	1	0	7998	0	8004
PEAK	8280.7		13.9	ELEC1950	1302	226	47	14	0	0	0	0	0	0	0	3539
MON/DAY	7/16		7/18													
C-TR-2																
SUM	14866.0		10797.2	LOAD	0	0	0	0	0	0	5	1	0	7998	0	8004

Prop Extell 221 West 57th St - 1.SIM

PEAK 8280.7 13.9
MON/DAY 7/16 7/18

ELEC1950 1302 226 47 14 0 0 0 0 0 0 3539



9/17/2015

C-TR-3																
SUM	32.8	38.8	LOAD	0	0	0	0	0	0	5	1	0	0	0	6	
PEAK	5662.7	6.7	ELEC	0	0	6	0	0	0	0	0	0	0	0	6	
MON/DAY	7/ 1	7/ 1														
Nordstrom Elec DHW Heater																
SUM	-267.0	80759.1	LOAD	2444	1037	708	865	808	1076	705	612	265	240	0	8760	
PEAK	-85.6	25.1	ELEC	2179	1214	689	864	837	1065	753	616	269	195	79	8760	
MON/DAY	3/ 1	2/ 1														
Capstone C65 (lower)																
SUM	0.0	0.0	0.0 ELEC	0	0	0	0	0	0	0	0	0	0	0	0	
PEAK	0.0	0.0	0.0 FUEL	0	0	0	0	0	0	0	0	0	0	0	0	
MON/DAY	0/ 0	0/ 0	0/ 0 RCVR	0	0	0	0	0	0	0	0	0	0	0	0	
Capstone C65 (upper)																
SUM	0.0	0.0	0.0 ELEC	0	0	0	0	0	0	0	0	0	0	0	0	
PEAK	0.0	0.0	0.0 FUEL	0	0	0	0	0	0	0	0	0	0	0	0	
MON/DAY	0/ 0	0/ 0	0/ 0 RCVR	0	0	0	0	0	0	0	0	0	0	0	0	
Res PCW Pump																
SUM	2103759.3		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	240.2		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
SCW 90 Pump																
SUM	334026.0		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	38.1		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
SCW 67 Pump																
SUM	336061.2		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	38.4		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
SCW 46 Pump																
SUM	788749.0		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	90.0		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
Upper Res PHW Pump																
SUM	10457.1		FLOW	8069	676	10	5	0	0	0	0	0	0	0	8760	
PEAK	9.3		RPM	0	0	0	0	8599	146	7	4	4	0	0	8760	
MON/DAY	10/29		ELEC	8750	10	0	0	0	0	0	0	0	0	0	8760	
SHW FTR 90 Pump																
SUM	5437.7		FLOW	3330	2461	137	0	0	0	0	0	0	0	0	5928	
PEAK	1.3		RPM	0	0	0	0	0	5928	0	0	0	0	0	5928	
MON/DAY	1/23		ELEC	0	5928	0	0	0	0	0	0	0	0	0	5928	
SHW DHW 90 Pump																
SUM	84.8		FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	0.0		RPM	0	0	0	0	1825	4152	2783	0	0	0	0	8760	
MON/DAY	1/ 2		ELEC	0	3494	2483	2281	502	0	0	0	0	0	0	8760	
SHW FTR 67 Pump																
SUM	2361.9		FLOW	1773	1666	1257	154	5	0	0	0	0	0	0	4855	

Prop Extell 221 West 57th St - 1.SIM

PEAK
MON/DAY

0.8
1/23

RPM	0	0	0	0	0	2930	1925
ELEC	0	4734	121	0	0	0	0


DEPT OF BLDGS121328205Job Number


ES400758202Scan Code

9/17/2015

SHW DHW 67 Pump														
SUM	84.8	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0	8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0	8760
SHW FTR 46 Pump														
SUM	1729.2	FLOW	1520	1185	1442	505	81	6	0	0	0	0	0	4739
PEAK	0.6	RPM	0	0	0	0	0	2223	2516	0	0	0	0	4739
MON/DAY	1/23	ELEC	0	4247	492	0	0	0	0	0	0	0	0	4739
SHW DHW 46 Pump														
SUM	84.8	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0	8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0	8760
Lower Res PHW Pump														
SUM	10470.1	FLOW	8758	2	0	0	0	0	0	0	0	0	0	8760
PEAK	2.4	RPM	0	0	0	0	8760	0	0	0	0	0	0	8760
MON/DAY	5/ 6	ELEC	8760	0	0	0	0	0	0	0	0	0	0	8760
SHW FTR 11 Pump														
SUM	2351.1	FLOW	1684	1524	1307	303	61	0	0	0	0	0	0	4879
PEAK	0.8	RPM	0	0	0	0	0	2934	1945	0	0	0	0	4879
MON/DAY	1/23	ELEC	0	4586	293	0	0	0	0	0	0	0	0	4879
SHW DHW 11 Pump														
SUM	212.5	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0	8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0	8760
SHW DHW 7 Pump														
SUM	212.5	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0	8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0	8760
Retail PHW Pump														
SUM	4570.9	FLOW	0	2465	380	240	90	56	60	75	72	57	29	3524
PEAK	5.7	RPM	0	0	0	0	0	3020	323	169	12	0	0	3524
MON/DAY	1/24	ELEC	0	3011	211	142	107	39	11	3	0	0	0	3524
Penthouse CHW Pump														
SUM	17683.6	FLOW	0	0	0	0	0	0	0	0	0	8760	0	8760
PEAK	2.0	RPM	0	0	0	0	0	0	0	0	0	0	8760	8760
MON/DAY	1/ 1	ELEC	0	0	0	0	0	0	0	0	0	8760	0	8760
Retail CHW Pump														
SUM	198280.6	FLOW	3328	603	873	306	17	0	0	0	0	0	0	5127
PEAK	57.9	RPM	0	0	0	0	0	0	0	0	0	0	5127	5127
MON/DAY	7/17	ELEC	0	0	0	0	3605	1168	354	0	0	0	0	5127
Penthouse CHW Pump 2														
SUM	0.0	FLOW	0	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	RPM	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0

		COIL LOAD	PIPE GAIN	NET LOAD	OVERLOAD	Number of hours within each PART LOAD range												TOTAL	
SUM		(MBTU)	(MBTU)	(MBTU)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	RUN		
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS		
----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
Upper Res PHW Loop																			
SUM		-11032.5	0.0	-11012.2	0.0	HEAT5448	1348	1465	444	55	0	0	0	0	0	0	8760		
PEAK		-6296.5	0.0	-6288.2	0.0	FLOW5846	2317	554	29	6	4	4	0	0	0	0	8760		
MON/DAY		1/23	0/ 0	1/23	0/ 0														
Lower Res PHW Loop																			
SUM		-8093.5	0.0	-8075.8	0.0	HEAT5232	1038	986	925	374	161	39	5	0	0	0	8760		
PEAK		-4817.6	0.0	-4811.2	0.0	FLOW5676	1632	1109	237	88	18	0	0	0	0	0	8760		
MON/DAY		1/23	0/ 0	1/23	0/ 0														
Retail Elec DHW Loop																			
SUM		-267.0	0.0	-267.0	0.0	HEAT2444	1037	708	865	808	1076	705	612	265	240	0	8760		
PEAK		-85.6	0.0	-85.6	0.0	FLOW2161	893	730	720	290	1239	554	1013	303	606	251	8760		
MON/DAY		3/ 1	0/ 0	3/ 1	0/ 0														
Retail PHW Loop																			
SUM		-5095.8	0.0	-5084.3	-36.5	HEAT2586	527	125	110	63	1	0	0	0	0	0	3412		
PEAK		-13534.4	0.0	-11010.4	-2750.0	FLOW3023	286	204	11	0	0	0	0	0	0	0	3524		
MON/DAY		1/23	0/ 0	1/23	1/23														
Hours overloaded during heating: 28																			
Retail CHW Loop																			
SUM		9566.1	0.0	10175.1	0.0	COOL3303	393	626	535	225	45	0	0	0	0	0	5127		
PEAK		9850.2	0.0	10026.4	0.0	FLOW3295	485	849	430	68	0	0	0	0	0	0	5127		
MON/DAY		7/17	0/ 0	7/17	0/ 0														
Penthouse CHW Loop																			
SUM		249.5	0.0	315.8	0.0	COOL3410	1725	774	44	0	0	0	0	0	0	0	5953		
PEAK		179.9	0.0	191.1	0.0	FLOW8656	104	0	0	0	0	0	0	0	0	0	8760		
MON/DAY		7/ 2	0/ 0	7/ 2	0/ 0														
___SHW FTR 90 Loop																			
SUM		-4389.2	0.0	-4377.1	0.0	HEAT2124	1226	1503	668	118	7	0	0	0	0	0	5646		
PEAK		-2561.1	0.0	-2558.2	0.0	FLOW2717	2216	949	46	0	0	0	0	0	0	0	5928		
MON/DAY		1/23	0/ 0	1/23	0/ 0														
___SHW DHW 90 Loop																			
SUM		-448.2	0.0	-448.0	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502 8760		
PEAK		-81.5	0.0	-81.4	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502 8760		
MON/DAY		1/ 2	0/ 0	1/ 2	0/ 0														
___SHW FTR 67 Loop																			
SUM		-2763.8	0.0	-2758.1	0.0	HEAT1685	1455	1259	251	20	0	0	0	0	0	0	4670		
PEAK		-1838.2	0.0	-1836.2	0.0	FLOW2274	2225	351	5	0	0	0	0	0	0	0	4855		
MON/DAY		1/23	0/ 0	1/23	0/ 0														
___SHW DHW 67 Loop																			
SUM		-448.2	0.0	-448.0	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502 8760		
PEAK		-81.5	0.0	-81.4	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502 8760		
MON/DAY		1/ 2	0/ 0	1/ 2	0/ 0														
___SHW FTR 46 Loop																			
SUM		-2310.3	0.0	-2306.1	0.0	HEAT1763	1495	1149	189	12	0	0	0	0	0	0	4608		
PEAK		-1585.1	0.0	-1583.4	0.0	FLOW2317	2143	274	5	0	0	0	0	0	0	0	4739		
MON/DAY		1/23	0/ 0	1/23	0/ 0														

___SHW DHW 46 Loop																		
SUM	-448.2	0.0	-448.0	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	-81.5	0.0	-81.4	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0														
___SHW FTR 11 Loop																		
SUM	-2914.1	0.0	-2908.4	0.0	HEAT	1355	988	1160	936	271	50	0	0	0	0	0	4760	
PEAK	-1776.8	0.0	-1774.6	0.0	FLOW	1746	1612	1212	270	39	0	0	0	0	0	0	4879	
MON/DAY	1/23	0/ 0	1/23	0/ 0														
___SHW DHW 11 Loop																		
SUM	-1122.6	0.0	-1122.1	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	-204.1	0.0	-203.9	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0														
___SHW DHW 7 Loop																		
SUM	-1122.6	0.0	-1122.1	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	-204.1	0.0	-203.9	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0														

		HEAT	COOL	PIPE	NET	OVER	Number of hours within each PART LOAD range										TOTAL	
		LOAD	LOAD	GAIN	LOAD	LOAD											RUN	
		(MBTU)	(MBTU)	(MBTU)	(MBTU)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS

Res PCW Loop																		
SUM	-2042.8	0.0	0.0	-0.1	-9.4	HEAT	735	0	0	0	0	0	0	0	0	0	735	
PEAK	-3432.0	0.0	0.0	-0.1	-427.5	FLOW	0	0	0	0	0	0	0	735	0	0	735	
MON/DAY	1/23	0/ 0	0/ 0	1/23	1/23													
SUM	0.0	25843.2	0.0	29764.8	0.0	COOL	5502	1391	1034	77	0	0	0	0	0	0	8004	
PEAK	0.0	16297.4	0.0	16988.0	0.0	FLOW	0	0	0	0	0	0	0	8004	0	0	8004	
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0													
SUM	0.0	0.0	0.0			FLOAT	0											
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0	
MON/DAY	0/ 0	0/ 0	0/ 0															

GRAND TOTAL																		
SUM	-2042.8	25843.2				FLOW	0	0	0	0	0	0	0	8739	0	0	8739	
PEAK	-3432.0	16297.4																
MON/DAY	1/23	0/ 0																
Hours overloaded during heating: 72																		

___SCW 90 Loop																		
SUM	-321.9	0.0	0.0	-494.6	0.0	HEAT	1800	100	0	0	0	0	0	0	0	0	1900	
PEAK	-430.8	0.0	0.0	-756.6	0.0	FLOW	0	0	0	0	0	0	0	0	0	1900	1900	
MON/DAY	1/23	0/ 0	0/ 0	1/23	0/ 0													
SUM	0.0	4419.9	0.0	5383.3	0.0	COOL	4339	1202	1140	178	1	0	0	0	0	0	6860	
PEAK	0.0	3190.4	0.0	3300.5	0.0	FLOW	0	0	0	0	0	0	0	0	0	6860	6860	
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0													
SUM	0.0	0.0	0.0			FLOAT	0											
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0	
MON/DAY	0/ 0	0/ 0	0/ 0															

GRAND TOTAL																		
SUM	-321.9	4419.9				FLOW	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	-430.8	3190.4																

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MON/DAY 1/23 0/ 0



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___SCW 67 Loop																	
SUM	0.0	0.0	0.0	-311.3	0.0	HEAT	735	0	0	0	0	0	0	0	0	0	735
PEAK	0.0	0.0	0.0	-435.6	0.0	FLOW	0	0	0	0	0	0	0	0	0	735	735
MON/DAY	0/ 0	0/ 0	0/ 0	1/26	0/ 0												
SUM	0.0	4155.3	0.0	5454.4	0.0	COOL	5568	1328	1092	37	0	0	0	0	0	0	8025
PEAK	0.0	2811.8	0.0	2922.5	0.0	FLOW	0	0	0	0	0	0	0	0	0	8025	8025
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0												
SUM	0.0	0.0	0.0			FLOW	0										
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0														
GRAND TOTAL																	
SUM	0.0	4155.3				FLOW	0	0	0	0	0	0	0	0	0	8760	8760
PEAK	0.0	2811.8															
MON/DAY	0/ 0	0/ 0															
___SCW 46 Loop																	
SUM	-741.7	0.0	0.0	-1491.6	0.0	HEAT	1834	117	0	0	0	0	0	0	0	0	1951
PEAK	-924.3	0.0	0.0	-2257.1	0.0	FLOW	0	0	0	0	0	0	0	1951	0	0	1951
MON/DAY	1/23	0/ 0	0/ 0	1/23	0/ 0												
SUM	0.0	11996.3	0.0	14538.0	0.0	COOL	4617	1429	701	62	0	0	0	0	0	0	6809
PEAK	0.0	9587.9	0.0	9844.9	0.0	FLOW	0	0	0	0	0	0	0	6809	0	0	6809
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0												
SUM	0.0	0.0	0.0			FLOW	0										
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0														
GRAND TOTAL																	
SUM	-741.7	11996.3				FLOW	0	0	0	0	0	0	0	8760	0	0	8760
PEAK	-924.3	9587.9															
MON/DAY	1/23	0/ 0															

Hours high/low alarm limits exceeded: 0/ 0

Note: The yearly WLHP summaries include three entries each:
1. Data for when the loop is heating dominated, with coincident cooling
2. Data for when the loop is cooling dominated, with coincident heating
3. Data for when the loop is floating, with coincident heating and cooling

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
KWH	313795.	4866.	206490.	24074.	9783.	0.	328414.	200537.	35958.	0.	7763.	22900.	1154582.
MAX KW	740.719	12.307	409.903	70.080	117.181	0.000	464.184	317.811	144.210	0.000	24.325	61.560	2125.918
DAY/HR	2/10	2/20	2/10	23/11	23/20	0/ 0	23/ 9	23/12	1/ 9	0/ 0	23/13	1/ 1	23/10
PEAK ENDUSE	740.719	9.780	409.903	52.316	40.078	0.000	462.928	307.511	89.870	0.000	12.813	0.000	
PEAK PCT	34.8	0.5	19.3	2.5	1.9	0.0	21.8	14.5	4.2	0.0	0.6	0.0	
FEB													
KWH	283474.	4397.	186527.	20336.	9184.	0.	295614.	178579.	32479.	0.	7360.	20684.	1038636.
MAX KW	740.719	12.307	409.903	64.681	70.741	0.000	461.417	312.447	144.210	0.000	25.084	61.560	2081.027
DAY/HR	1/10	1/20	1/10	5/ 5	24/16	0/ 0	4/ 9	4/19	1/ 9	0/ 0	1/13	1/ 1	4/10
PEAK ENDUSE	740.719	9.780	409.903	31.326	22.804	0.000	460.350	302.901	89.870	0.000	13.373	0.000	
PEAK PCT	35.6	0.5	19.7	1.5	1.1	0.0	22.1	14.6	4.3	0.0	0.6	0.0	
MAR													
KWH	313795.	4866.	206490.	16843.	19241.	21.	326315.	190647.	35958.	0.	8199.	22900.	1145277.
MAX KW	740.719	12.307	409.903	42.528	544.818	2.510	468.666	322.126	144.210	0.000	25.084	61.560	2496.828
DAY/HR	1/10	1/20	1/10	1/ 5	25/18	25/18	25/16	25/15	1/ 9	0/ 0	1/13	1/ 1	25/18
PEAK ENDUSE	671.745	5.877	349.931	0.000	544.818	2.510	467.717	305.438	129.580	0.000	19.213	0.000	
PEAK PCT	26.9	0.2	14.0	0.0	21.8	0.1	18.7	12.2	5.2	0.0	0.8	0.0	
APR													
KWH	306067.	4777.	200864.	8944.	33102.	74.	314736.	178827.	34799.	0.	7805.	22162.	1112155.
MAX KW	740.719	12.307	409.903	25.941	912.145	5.578	468.309	337.920	144.210	0.000	24.896	61.560	2884.771
DAY/HR	1/10	1/20	1/10	3/ 7	30/17	30/19	30/17	30/17	1/ 9	0/ 0	2/13	1/ 2	30/18
PEAK ENDUSE	671.745	5.877	349.931	0.000	898.824	5.320	467.927	336.774	129.580	0.000	18.793	0.000	
PEAK PCT	23.3	0.2	12.1	0.0	31.2	0.2	16.2	11.7	4.5	0.0	0.7	0.0	
MAY													
KWH	315222.	4906.	207107.	1617.	248278.	1460.	325664.	174993.	35958.	0.	7259.	22900.	1345366.
MAX KW	740.719	12.307	409.903	20.881	1555.781	11.474	475.985	370.291	144.210	0.000	22.640	61.560	3563.026
DAY/HR	1/10	1/20	1/10	7/ 5	10/14	22/19	22/17	10/16	1/ 9	0/ 0	6/13	1/ 2	10/14
PEAK ENDUSE	675.794	7.385	351.347	0.000	1555.781	10.662	475.026	364.606	100.320	0.000	22.104	0.000	
PEAK PCT	19.0	0.2	9.9	0.0	43.7	0.3	13.3	10.2	2.8	0.0	0.6	0.0	
JUN													
KWH	303213.	4697.	199630.	22.	537839.	4076.	320060.	183098.	34799.	0.	6321.	22162.	1615915.
MAX KW	740.719	12.307	409.903	2.338	1723.752	18.959	624.320	378.578	144.210	0.000	20.398	61.560	3725.250
DAY/HR	3/10	3/20	3/10	1/ 7	12/15	16/15	1/16	12/17	1/ 9	0/ 0	19/13	1/ 2	12/17
PEAK ENDUSE	675.794	7.385	351.347	0.000	1708.446	14.488	477.979	378.578	96.140	0.000	15.094	0.000	
PEAK PCT	18.1	0.2	9.4	0.0	45.9	0.4	12.8	10.2	2.6	0.0	0.4	0.0	
JUL													
KWH	315222.	4906.	207107.	0.	720928.	6679.	333176.	206182.	35958.	0.	5917.	22900.	1858977.
MAX KW	740.719	12.307	409.903	0.000	2084.279	27.710	482.692	424.376	144.210	0.000	18.457	61.560	4119.031
DAY/HR	1/10	1/20	1/10	0/ 0	1/17	18/14	17/14	2/ 9	1/ 9	0/ 0	3/13	1/ 2	1/17
PEAK ENDUSE	675.794	7.385	351.347	0.000	2084.279	20.133	482.357	387.946	96.140	0.000	13.650	0.000	
PEAK PCT	16.4	0.2	8.5	0.0	50.6	0.5	11.7	9.4	2.3	0.0	0.3	0.0	
AUG													
KWH	315222.	4906.	207107.	3.	634063.	5582.	331177.	195027.	35958.	0.	5612.	22900.	1757560.
MAX KW	740.719	12.307	409.903	0.749	1722.942	22.693	534.810	374.919	144.210	0.000	17.277	61.560	3714.198
DAY/HR	1/10	1/20	1/10	5/ 8	27/15	27/15	16/17	29/17	1/ 9	0/ 0	15/13	1/ 2	27/15
PEAK ENDUSE	675.794	7.385	351.347	0.000	1722.942	22.693	480.522	362.274	77.330	0.000	13.911	0.000	
PEAK PCT	18.2	0.2	9.5	0.0	46.4	0.6	12.9	9.8	2.1	0.0	0.4	0.0	

SEP													
KWH	303213.	4697.	199630.	232.	432459.	3512.	317554.	174469.	34799.	0.	5288.	22162.	1498015.
MAX KW	740.719	12.307	409.903	9.233	1687.505	24.226	480.773	373.772	144.210	0.000	17.214	61.560	3696.526
DAY/HR	3/10	3/20	3/10	20/ 6	5/14	5/14	5/14	4/17	1/ 9	0/ 0	20/13	1/ 2	5/14
PEAK ENDUSE	675.794	7.385	351.347	0.000	1687.505	24.226	480.773	352.340	100.320	0.000	16.835	0.000	
PEAK PCT	18.3	0.2	9.5	0.0	45.7	0.7	13.0	9.5	2.7	0.0	0.5	0.0	

OCT													
KWH	315222.	4906.	207107.	4856.	76899.	227.	324719.	173762.	35958.	0.	5880.	22900.	1172440.
MAX KW	740.719	12.307	409.903	23.429	997.887	6.213	470.985	335.682	144.210	0.000	18.262	61.560	2933.583
DAY/HR	1/10	1/20	1/10	31/ 5	9/16	9/16	9/15	9/15	1/ 9	0/ 0	30/13	1/ 2	9/15
PEAK ENDUSE	675.794	7.385	351.347	0.000	994.263	6.149	470.985	335.682	77.330	0.000	14.648	0.000	
PEAK PCT	23.0	0.3	12.0	0.0	33.9	0.2	16.1	11.4	2.6	0.0	0.5	0.0	

NOV													
KWH	301786.	4656.	199014.	12290.	11015.	0.	315224.	184419.	34799.	0.	6225.	22162.	1091589.
MAX KW	740.719	12.307	409.903	32.937	115.186	0.000	456.767	316.973	144.210	0.000	20.151	61.560	2067.030
DAY/HR	1/10	1/20	1/10	22/ 4	3/16	0/ 0	22/ 9	14/ 9	1/ 9	0/ 0	21/13	1/ 2	15/10
PEAK ENDUSE	740.719	9.780	409.903	21.626	18.556	0.000	453.808	312.205	89.870	0.000	10.561	0.000	
PEAK PCT	35.8	0.5	19.8	1.0	0.9	0.0	22.0	15.1	4.3	0.0	0.5	0.0	

DEC													
KWH	313795.	4866.	206490.	18261.	9232.	1.	326908.	195554.	35958.	0.	7129.	22900.	1141097.
MAX KW	740.719	12.307	409.903	52.998	167.493	0.328	460.673	313.539	144.210	0.000	22.317	61.560	2061.105
DAY/HR	2/10	2/20	2/10	4/ 6	9/16	9/16	4/ 9	11/12	1/ 9	0/ 0	24/13	1/ 1	4/10
PEAK ENDUSE	740.719	9.780	409.903	33.887	18.570	0.000	458.328	288.312	89.870	0.000	11.736	0.000	
PEAK PCT	35.9	0.5	19.9	1.6	0.9	0.0	22.2	14.0	4.4	0.0	0.6	0.0	
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	

KWH	3700027.	57448.	2433565.	107479.	2742024.	21633.	3859561.	2236095.	423382.	0.	80759.	269633.	15931608.
MAX KW	740.719	12.307	409.903	70.080	2084.279	27.710	624.320	424.376	144.210	0.000	25.084	61.560	4119.031
MON/DY	1/ 2	1/ 2	1/ 2	1/23	7/ 1	7/18	6/ 1	7/ 2	1/ 1	0/ 0	2/ 1	1/ 1	7/ 1
PEAK ENDUSE	675.794	7.385	351.347	0.000	2084.279	20.133	482.357	387.946	96.140	0.000	13.650	0.000	
PEAK PCT	16.4	0.2	8.5	0.0	50.6	0.5	11.7	9.4	2.3	0.0	0.3	0.0	

*** CIRCULATION LOOPS ***

HEATING CAPACITY (MBTU/HR)	COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)
Res PCW Loop -30.666	45.602	8987.7	61.6	0.0	0.00	0.0	0.00	13481.6	1.00
Upper Res PHW Loop -12.773	0.000	845.6	41.6	0.0	0.00	0.0	0.00	1268.4	1.00
Lower Res PHW Loop -6.515	0.000	393.0	41.6	0.0	0.00	0.0	0.00	589.5	1.00
Retail Elec DHW Loop -0.086	0.000	2.2	0.0	0.0	0.00	0.0	0.00	3.2	1.00
Retail PHW Loop -21.881	0.000	1459.1	41.6	0.0	0.00	0.0	0.00	2188.6	1.00
Retail CHW Loop 0.000	17.868	3519.1	51.6	0.0	0.00	0.0	0.00	5278.7	1.00
Penthouse CHW Loop 0.000	0.550	108.8	56.6	0.0	0.00	0.0	0.00	163.2	1.00
___SCW 90 Loop -6.111	8.227	1624.8	41.6	0.0	0.00	0.0	0.00	2437.1	1.00
___SCW 67 Loop -5.886	8.414	1662.0	41.6	0.0	0.00	0.0	0.00	2493.0	1.00
___SCW 46 Loop -18.882	27.008	5353.1	41.6	0.0	0.00	0.0	0.00	8029.6	1.00
___SHW FTR 90 Loop -4.794	0.000	321.0	31.6	0.0	0.00	0.0	0.00	481.5	1.00
___SHW DHW 90 Loop -0.081	0.000	2.3	21.6	0.0	0.00	0.0	0.00	3.5	1.00
___SHW FTR 67 Loop -4.015	0.000	268.1	31.6	0.0	0.00	0.0	0.00	402.2	1.00
___SHW DHW 67 Loop -0.081	0.000	2.3	21.6	0.0	0.00	0.0	0.00	3.5	1.00
___SHW FTR 46 Loop -3.593	0.000	239.8	31.6	0.0	0.00	0.0	0.00	359.7	1.00
___SHW DHW 46 Loop -0.081	0.000	2.3	21.6	0.0	0.00	0.0	0.00	3.5	1.00
___SHW FTR 11 Loop -3.040	0.000	203.2	31.6	0.0	0.00	0.0	0.00	304.8	1.00

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__SHW DHW 11 Loop										
-0.204	0.000	5.8	21.6	0.0	0.00	0.0	0.00	8.7	1.00	
__SHW DHW 7 Loop										
-0.204	0.000	5.8	21.6	0.0	0.00	0.0	0.00	8.7	1.00	

*** PUMPS ***

ATTACHED TO	FLOW (GAL/MIN)	HEAD (FT)	HEAD SETPOINT (FT)	CAPACITY CONTROL	POWER (KW)	MECHANICAL EFFICIENCY (FRAC)	MOTOR EFFICIENCY (FRAC)
Res PCW Pump	3 PUMP(s)						
Res PCW Loop	6000.0	150.0	42.6	VFD&STAGED	207.015	0.910	0.900
PRIMARY LOOP							
SCW 90 Pump	1 PUMP(s)						
__SCW 90 Loop	1100.0	125.0	42.6	VAR-SPEED	31.627	0.910	0.900
SECONDARY LOOP							
SCW 67 Pump	1 PUMP(s)						
__SCW 67 Loop	1100.0	125.0	42.6	VAR-SPEED	31.627	0.910	0.900
SECONDARY LOOP							
SCW 46 Pump	1 PUMP(s)						
__SCW 46 Loop	2500.0	125.0	42.6	VAR-SPEED	71.880	0.910	0.900
SECONDARY LOOP							
Upper Res PHW Pump	4 PUMP(s)						
Upper Res PHW Loop	1640.0	150.0	32.6	VFD&STAGED	56.584	0.910	0.900
PRIMARY LOOP							
SHW FTR 90 Pump	1 PUMP(s)						
__SHW FTR 90 Loop	430.0	80.0	32.6	VAR-SPEED	7.913	0.910	0.900
SECONDARY LOOP							
SHW DHW 90 Pump	1 PUMP(s)						
__SHW DHW 90 Loop	2.3	80.0	22.6	VAR-SPEED	0.043	0.910	0.900
SECONDARY LOOP							
SHW FTR 67 Pump	1 PUMP(s)						
__SHW FTR 67 Loop	200.0	70.0	32.6	VAR-SPEED	3.220	0.910	0.900
SECONDARY LOOP							
SHW DHW 67 Pump	1 PUMP(s)						
__SHW DHW 67 Loop	2.3	80.0	22.6	VAR-SPEED	0.043	0.910	0.900
SECONDARY LOOP							
SHW FTR 46 Pump	1 PUMP(s)						
__SHW FTR 46 Loop	140.0	70.0	32.6	VAR-SPEED	2.254	0.910	0.900
SECONDARY LOOP							
SHW DHW 46 Pump	1 PUMP(s)						
__SHW DHW 46 Loop	2.3	80.0	22.6	VAR-SPEED	0.043	0.910	0.900
SECONDARY LOOP							
Lower Res PHW Pump	4 PUMP(s)						

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Lower Res PHW Loop	2160.0	140.0	32.6	VFD&STAGED	69.557	0.910	0.900
PRIMARY LOOP							



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SHW FTR 11 Pump	1 PUMP(s)							
__SHW FTR 11 Loop		195.0	70.0	32.6	VAR-SPEED	3.140	0.910	0.900
SECONDARY LOOP								
SHW DHW 11 Pump	1 PUMP(s)							
__SHW DHW 11 Loop		5.8	80.0	22.6	VAR-SPEED	0.107	0.910	0.900
SECONDARY LOOP								
SHW DHW 7 Pump	1 PUMP(s)							
__SHW DHW 7 Loop		5.8	80.0	22.6	VAR-SPEED	0.107	0.910	0.900
SECONDARY LOOP								
Retail PHW Pump	1 PUMP(s)							
Retail PHW Loop		400.0	80.0	32.6	VAR-SPEED	7.361	0.910	0.900
PRIMARY LOOP								
Penthouse CHW Pump	1 PUMP(s)							
CH-94-1		99.4	70.0	0.0	ONE-SPEED	2.103	0.770	0.810
EVAPORATOR								
PRIMARY								
Retail CHW Pump	1 PUMP(s)							
Retail CHW Loop		3871.1	80.0	0.0	ONE-SPEED	84.184	0.770	0.900
PRIMARY LOOP								
Penthouse CHW Pump 2	1 PUMP(s)							
CH-94-2		119.7	70.0	0.0	ONE-SPEED	2.530	0.770	0.810
EVAPORATOR								
PRIMARY								

*** PRIMARY EQUIPMENT ***

EQUIPMENT TYPE	ATTACHED TO	RATED CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	RATED EIR (FRAC)	RATED HIR (FRAC)	AUXILIARY (KW)
B-67M-6						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-5						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-4						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-3						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-2						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-1						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-7-1						
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000
B-7-2						
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000

B-7-3	HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000
B-7-4	HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000
B-7-5	HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000
B-7-6	HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000
B-6-1	HW-CONDENSING	Retail PHW Loop	-5.610	374.1	0.000	1.045	0.000
B-6-2	HW-CONDENSING	Retail PHW Loop	-5.610	374.1	0.000	1.045	0.000
Fake - HP Loop Boiler	HW-CONDENSING	Res PCW Loop	0.000	0.0	0.000	1.074	0.000
Retail Chiller 1	ELEC-SCREW	Retail CHW Loop	3.600	732.8	0.319	0.000	0.000
Retail Chiller 2	ELEC-SCREW	Retail CHW Loop	3.600	732.8	0.319	0.000	0.000
Retail Chiller 3	ELEC-SCREW	Retail CHW Loop	3.600	732.8	0.319	0.000	0.000
CH-94-1	ELEC-OPEN-CENT	Penthouse CHW Loop Res PCW Loop	0.544 0.549	90.4 109.8	0.206	0.000	0.000
CH-94-2	ELEC-OPEN-CENT	Penthouse CHW Loop Res PCW Loop	1.185 1.191	196.9 238.1	0.201	0.000	0.000

*** COOLING TOWERS ***

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	NUMBER OF CELLS	FAN POWER PER CELL (KW)	SPRAY PWR PER CELL (KW)	AUXILIARY (KW)
C-TR-1 OPEN-TWR	Res PCW Loop	10.000	1998.4	1	30.770	0.000	0.000
C-TR-2 OPEN-TWR	Res PCW Loop	10.000	1998.4	1	30.770	0.000	0.000
C-TR-3 OPEN-TWR	Res PCW Loop	10.000	1998.4	1	30.770	0.000	0.000

*** DW-HEATERS ***

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	EIR (FRAC)	HIR (FRAC)	AUXILIARY (KW)	TANK (GAL)	TANK UA (BTU/HR-F)
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Prop Extell 221 West 57th St - 1.SIM


DEPT OF BLDGS121328205Job Number


ES126173587Scan Code

9/17/2015

Prop Extell 221 West 57th St - 1.SIM

Extell 221 West 57th St

REPORT- PV-A Plant Design Parameters

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

Nordstrom Elec DHW Heater								
ELEC DW-HEATER	Retail Elec DHW Loop	-0.086	2.2	1.000	0.000	0.000	150.0	15.00

REPORT- SV-A System Design Parameters for

SC2 (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)		CAPACITY	EIR	EIR	SUPP-HEAT	
			(SQFT)		RATIO	(KBTU/HR)			(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
VAVS		1.000	28708.8	574.	0.241	1393.404	0.681		0.000	0.000	0.000	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH				MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN		RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL		(FRAC)	(FRAC)	
SUPPLY	36181.	1.00	23.728	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER		1.10	0.30	
ZONE			SUPPLY	EXHAUST			MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN		FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)		(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
SC2WNW Perim Zn (B.WNW1)			2236.	0.	0.000		0.278	622.	0.00	0.00	50.70	-60.36	-30.18
SC2NNE Perim Zn (B.NNE2)			4467.	0.	0.000		0.186	829.	0.00	0.00	101.31	-120.60	-60.30
SC2Core Zn (B.C4)			8499.	0.	0.000		0.278	2365.	0.00	0.00	192.77	-229.49	-114.74
SC2SW Perim Zn (B.SW5)			1132.	0.	0.000		0.278	315.	0.00	0.00	25.66	-30.55	-15.28
SC2Core Zn (B.C9)			9951.	0.	0.000		0.278	2769.	0.00	0.00	225.69	-268.68	-134.34
SC2Core Zn (B.C11)			9897.	0.	0.000		0.186	1836.	0.00	0.00	224.46	-267.21	-133.61
SC2WNW Perim Zn (B.WNW6)			0.	0.	0.000		0.000	0.	0.00	0.00	0.00	0.00	0.00
SC2Core Zn (B.C10)			0.	0.	0.000		0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
VAVS	1.000	34393.6	688.	0.267	1489.046	0.678	0.000	0.000	0.000	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	38332.	1.00	25.138	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC1WNW Perim Zn (B.WNW1)	2236.	0.	0.000	0.278	622.	0.00	0.00	50.70	-60.36	-30.18	1.
SC1NNE Perim Zn (B.NNE2)	4467.	0.	0.000	0.186	829.	0.00	0.00	101.31	-120.60	-60.30	1.
SC1Core Zn (B.C4)	8499.	0.	0.000	0.278	2365.	0.00	0.00	192.77	-229.49	-114.74	1.
SC1SW Perim Zn (B.SW5)	1132.	0.	0.000	0.278	315.	0.00	0.00	25.66	-30.55	-15.28	1.
SC1SSW Perim Zn (B.SSW7)	2338.	0.	0.000	0.278	651.	0.00	0.00	53.03	-63.13	-31.57	1.
SC1ESE Perim Zn (B.ESE8)	3111.	0.	0.000	0.278	866.	0.00	0.00	70.56	-84.00	-42.00	1.
SC1Core Zn (B.C9)	9951.	0.	0.000	0.278	2769.	0.00	0.00	225.69	-268.68	-134.34	1.
SC1Core Zn (B.C11)	6598.	0.	0.000	0.278	1836.	0.00	0.00	149.64	-178.14	-89.07	1.
SC1Core Zn (B.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
SC1WNW Perim Zn (B.WNW6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
SC1Core Zn (B.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
VAVS	1.000	30278.4	606.	0.256	1418.052	0.679	0.000	0.000	0.000	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	36665.	1.00	24.045	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	ZONE
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	MU
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
CWNW Perim Zn (B.WNW1)	2430.	0.	0.000	0.256	622.	0.00	0.00	55.11	-65.61	-32.81	
CNNE Perim Zn (B.NNE2)	3237.	0.	0.000	0.256	829.	0.00	0.00	73.41	-87.39	-43.70	
CCore Zn (B.C4)	9239.	0.	0.000	0.256	2365.	0.00	0.00	209.53	-249.44	-124.72	
CSW Perim Zn (B.SW5)	1230.	0.	0.000	0.256	315.	0.00	0.00	27.90	-33.21	-16.61	
CSSW Perim Zn (B.SSW7)	2542.	0.	0.000	0.256	651.	0.00	0.00	57.64	-68.62	-34.31	
CCore Zn (B.C9)	10817.	0.	0.000	0.256	2769.	0.00	0.00	245.32	-292.05	-146.02	
CCore Zn (B.C11)	7172.	0.	0.000	0.256	1836.	0.00	0.00	162.65	-193.63	-96.82	
CCore Zn (B.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	66082.3	638.	0.136	2301.036	0.696	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	62581.	1.00	41.041	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
GNW Perim Zn (G.NW2)	8055.	0.	0.000	0.107	859.	0.00	0.00	182.68	-347.96	-133.74	1.
GNNE Perim Zn (G.NNE3)	3694.	0.	0.000	0.107	394.	0.00	0.00	83.79	-159.60	-74.87	1.
GEast Perim Zn (G.E6)	1582.	0.	0.000	0.186	293.	0.00	0.00	35.88	-68.35	-46.36	1.
GWest Perim Zn (G.W8)	2193.	0.	0.000	0.071	156.	0.00	0.00	49.73	-94.73	-54.60	1.
GSSW Perim Zn (G.SSW9)	2996.	0.	0.000	0.107	320.	0.00	0.00	67.95	-129.42	-65.44	1.
GESE Perim Zn (G.ESE10)	1011.	0.	0.000	0.142	144.	0.00	0.00	22.92	-43.65	-38.64	1.
GSSW Perim Zn (G.SSW12)	4775.	0.	0.000	0.125	599.	0.00	0.00	108.31	-206.30	-89.47	1.
GCore Zn (G.C13)	5423.	0.	0.000	0.186	1006.	0.00	0.00	122.99	-234.28	-98.21	1.
GCore Zn (G.C14)	1744.	0.	0.000	0.107	186.	0.00	0.00	39.54	-75.32	-48.54	1.
GNNE Perim Zn (G.NNE15)	6548.	0.	0.000	0.107	698.	0.00	0.00	148.50	-282.85	-113.39	1.
GCore Zn (G.C16)	13128.	0.	0.000	0.107	1400.	0.00	0.00	297.75	-567.14	-202.23	1.
GCore Zn (G.C17)	11432.	0.	0.000	0.213	2439.	0.00	0.00	259.29	-493.88	-179.34	1.
GNW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GSSW Perim Zn (G.SSW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GWest Perim Zn (G.W5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GNNE Perim Zn (G.NNE7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GP1 Zn (G.18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
VAVS	1.000	33093.9	662.	0.237	1529.453	0.682	0.000	0.000	0.000	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	39821.	1.00	26.115	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
1MNorth Perim Zn (G.N2)	2526.	0.	0.000	0.267	674.	0.00	0.00	57.30	-81.85	-59.11	1.
1MSW Perim Zn (G.SW3)	2573.	0.	0.000	0.187	482.	0.00	0.00	58.36	-37.50	(BASEBOARDS)	1.
1MSSW Perim Zn (G.SSW5)	2697.	0.	0.000	0.267	719.	0.00	0.00	61.17	-83.37	-59.74	1.
1MNNE Perim Zn (G.NNE6)	3008.	0.	0.000	0.235	707.	0.00	0.00	68.21	-37.50	(BASEBOARDS)	1.
1MESE Perim Zn (G.ESE7)	6492.	0.	0.000	0.133	866.	0.00	0.00	147.23	-87.39	-61.41	1.
1MCore Zn (G.C10)	5304.	0.	0.000	0.267	1415.	0.00	0.00	120.30	-37.50	(BASEBOARDS)	1.
1MCore Zn (G.C11)	17221.	0.	0.000	0.267	4592.	0.00	0.00	390.56	-210.33	-112.64	1.
1MNW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-37.50	(BASEBOARDS)	1.
1MSW Perim Zn (G.SW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-97.45	-65.60	1.
1MCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-171.86	-96.61	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	36126.6	723.	0.175	2124.713	0.690	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	56791.	1.00	37.244	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (G.N2)	3158.	0.	0.000	0.213	674.	0.00	0.00	71.62	-136.42	-67.63	1.
25SSW Perim Zn (G.SSW5)	7066.	0.	0.000	0.100	703.	0.00	0.00	160.26	-305.26	-120.39	1.
25Core Zn (G.C6)	8671.	0.	0.000	0.213	1850.	0.00	0.00	196.65	-374.57	-142.05	1.
25West Perim Zn (G.W7)	2544.	0.	0.000	0.061	156.	0.00	0.00	57.70	-109.90	-59.34	1.
25SSW Perim Zn (G.SSW8)	1660.	0.	0.000	0.192	320.	0.00	0.00	37.65	-71.72	-47.41	1.
25ESE Perim Zn (G.ESE9)	4473.	0.	0.000	0.107	477.	0.00	0.00	101.46	-193.25	-85.39	1.
25ESE Perim Zn (G.ESE10)	2277.	0.	0.000	0.171	389.	0.00	0.00	51.64	-98.35	-55.74	1.
25NNE Perim Zn (G.NNE11)	3794.	0.	0.000	0.138	522.	0.00	0.00	86.04	-163.89	-76.21	1.
25NNE Perim Zn (G.NNE12)	1303.	0.	0.000	0.142	185.	0.00	0.00	29.55	-56.28	-42.59	1.
25Core Zn (G.C15)	14022.	0.	0.000	0.213	2991.	0.00	0.00	318.03	-605.77	-214.30	1.
25Core Zn (G.C16)	7823.	0.	0.000	0.213	1669.	0.00	0.00	177.43	-337.96	-130.61	1.
25NW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25SSW Perim Zn (G.SSW3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25West Perim Zn (G.W4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (G.C13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (G.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	72253.2	1445.	0.157	4703.195	0.693	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	126782.	1.00	83.144	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (M.N18)	3632.	0.	0.000	0.186	674.	0.00	0.00	82.36	-156.88	-74.03	2.
25SSW Perim Zn (M.SSW21)	8319.	0.	0.000	0.085	703.	0.00	0.00	188.67	-359.38	-137.31	2.
25Core Zn (M.C22)	8671.	0.	0.000	0.213	1850.	0.00	0.00	196.65	-374.57	-142.05	2.
25West Perim Zn (M.W23)	2926.	0.	0.000	0.053	156.	0.00	0.00	66.36	-126.41	-64.50	2.
25SSW Perim Zn (M.SSW24)	1714.	0.	0.000	0.186	320.	0.00	0.00	38.87	-74.04	-48.14	2.
25ESE Perim Zn (M.ESE25)	4473.	0.	0.000	0.107	477.	0.00	0.00	101.46	-193.25	-85.39	2.
25ESE Perim Zn (M.ESE26)	2732.	0.	0.000	0.142	389.	0.00	0.00	61.96	-118.03	-61.88	2.
25NNE Perim Zn (M.NNE27)	3742.	0.	0.000	0.139	522.	0.00	0.00	84.88	-161.67	-75.52	2.
25NNE Perim Zn (M.NNE28)	1425.	0.	0.000	0.130	185.	0.00	0.00	32.31	-61.55	-44.23	2.
25Core Zn (M.C31)	14022.	0.	0.000	0.213	2991.	0.00	0.00	318.03	-605.77	-214.30	2.
25Core Zn (M.C32)	11735.	0.	0.000	0.142	1669.	0.00	0.00	266.15	-506.94	-183.42	2.
25NW Perim Zn (M.NW17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25SSW Perim Zn (M.SSW19)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25West Perim Zn (M.W20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25Core Zn (M.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25Core Zn (M.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	36126.6	723.	0.138	2650.924	0.696	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	72208.	1.00	47.355	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (T.N34)	3158.	0.	0.000	0.213	674.	0.00	0.00	71.62	-102.32	-67.63	1.
25SSW Perim Zn (T.SSW37)	13161.	0.	0.000	0.053	703.	0.00	0.00	298.50	-426.43	-202.68	1.
25Core Zn (T.C38)	8671.	0.	0.000	0.213	1850.	0.00	0.00	196.65	-280.93	-142.05	1.
25West Perim Zn (T.W39)	4543.	0.	0.000	0.034	156.	0.00	0.00	103.03	-147.18	-86.33	1.
25SSW Perim Zn (T.SSW40)	2195.	0.	0.000	0.146	320.	0.00	0.00	49.78	-71.11	-54.63	1.
25ESE Perim Zn (T.ESE41)	4473.	0.	0.000	0.107	477.	0.00	0.00	101.46	-144.94	-85.39	1.
25ESE Perim Zn (T.ESE42)	2277.	0.	0.000	0.171	389.	0.00	0.00	51.64	-73.77	-55.74	1.
25NNE Perim Zn (T.NNE43)	6003.	0.	0.000	0.087	522.	0.00	0.00	136.15	-194.49	-106.04	1.
25NNE Perim Zn (T.NNE44)	1971.	0.	0.000	0.094	185.	0.00	0.00	44.69	-63.85	-51.60	1.
25Core Zn (T.C47)	14022.	0.	0.000	0.213	2991.	0.00	0.00	318.03	-454.33	-214.30	1.
25Core Zn (T.C48)	11735.	0.	0.000	0.142	1669.	0.00	0.00	266.15	-380.21	-183.42	1.
25NW Perim Zn (T.NW33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25SSW Perim Zn (T.SSW35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25West Perim Zn (T.W36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (T.C45)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (T.C46)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
HP	1.000	383537.8	271.	0.000	0.000	0.000	0.000	0.278	0.205	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	191985.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
1519WNW Perim Zn (G.WNW6)	1432.	0.	0.384	1.000	0.	43.96	0.70	32.05	-59.68 -25.00 (BASEBOARDS)	-63.53	3.
1519NNE Perim Zn (G.NNE7)	4566.	0.	1.223	1.000	0.	139.21	0.70	102.22	-189.02 -25.00 (BASEBOARDS)	-147.87	3.
1519East Perim Zn (G.E8)	1134.	0.	0.304	1.000	0.	34.69	0.70	25.39	-47.10 -25.00 (BASEBOARDS)	-55.52	3.
1519ESE Perim Zn (G.ESE9)	981.	0.	0.263	1.000	0.	29.96	0.70	21.97	-40.67 -25.00 (BASEBOARDS)	-51.41	3.
1519South Perim Zn (G.S10	499.	0.	0.134	1.000	0.	15.30	0.70	11.17	-20.78 -25.00 (BASEBOARDS)	-38.42	3.
1519SSE Perim Zn (G.SSE11	2211.	0.	0.592	1.000	0.	67.47	0.70	49.50	-91.61 -25.00 (BASEBOARDS)	-84.50	3.
1519WNW Perim Zn (M.WNW20	1432.	0.	0.384	1.000	0.	43.96	0.70	32.05	-59.68 -25.00 (BASEBOARDS)	-63.53	5.
1519NNE Perim Zn (M.NNE21	4566.	0.	1.223	1.000	0.	139.21	0.70	102.22	-189.02 -25.00 (BASEBOARDS)	-147.87	5.
1519East Perim Zn (M.E22)	1134.	0.	0.304	1.000	0.	34.69	0.70	25.39	-47.10 -25.00 (BASEBOARDS)	-55.52	5.
1519ESE Perim Zn (M.ESE23	981.	0.	0.263	1.000	0.	29.96	0.70	21.97	-40.67 -25.00 (BASEBOARDS)	-51.41	5.
1519South Perim Zn (M.S24	499.	0.	0.134	1.000	0.	15.33	0.70	11.17	-20.81 -25.00 (BASEBOARDS)	-38.42	5.
1519SSE Perim Zn (M.SSE25	2211.	0.	0.592	1.000	0.	67.47	0.70	49.50	-91.61 -25.00 (BASEBOARDS)	-84.50	5.
1519West Perim Zn (M.W26)	1565.	0.	0.419	1.000	0.	47.90	0.70	35.03	-65.04 -25.00 (BASEBOARDS)	-67.10	5.
1519WNW Perim Zn (M.WNW27	1220.	0.	0.327	1.000	0.	37.11	0.70	27.31	-50.38 -25.00 (BASEBOARDS)	-57.83	5.
1519WNW Perim Zn (T.WNW34	1432.	0.	0.384	1.000	0.	43.96	0.70	32.05	-59.68 -25.00 (BASEBOARDS)	-63.53	1.
1519NNE Perim Zn (T.NNE35	4566.	0.	1.223	1.000	0.	139.21	0.70	102.22	-189.02 -25.00 (BASEBOARDS)	-147.87	1.
1519East Perim Zn (T.E36)	1134.	0.	0.304	1.000	0.	34.69	0.70	25.39	-47.10 -25.00 (BASEBOARDS)	-55.52	1.
1519ESE Perim Zn (T.ESE37	981.	0.	0.263	1.000	0.	29.96	0.70	21.97	-40.67 -25.00 (BASEBOARDS)	-51.41	1.
1519South Perim Zn (T.S38	499.	0.	0.134	1.000	0.	15.33	0.70	11.17	-20.81 -25.00 (BASEBOARDS)	-38.42	1.
1519SSE Perim Zn (T.SSE39	2211.	0.	0.592	1.000	0.	67.47	0.70	49.50	-91.61 -25.00 (BASEBOARDS)	-84.50	1.

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1519West Perim Zn (T.W40)	1565.	0.	0.419	1.000	0.	47.90	0.70	35.03	-65.04	-67.10	1.
									-25.00	(BASEBOARDS)	
1519WNW Perim Zn (T.WNW41	1220.	0.	0.327	1.000	0.	37.11	0.70	27.31	-50.38	-57.83	1.
									-25.00	(BASEBOARDS)	
2026East Perim Zn (G.E6)	1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-47.04	-55.52	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (G.WNW7)	1432.	0.	0.384	1.000	0.	43.85	0.70	32.05	-59.54	-63.53	1.
									-25.00	(BASEBOARDS)	
2026NNE Perim Zn (G.NNE8)	4566.	0.	1.223	1.000	0.	138.97	0.70	102.22	-188.69	-147.87	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (G.WNW9)	1220.	0.	0.327	1.000	0.	37.21	0.70	27.31	-50.53	-57.83	1.
									-25.00	(BASEBOARDS)	
2026ESE Perim Zn (G.ESE10	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.62	-51.41	1.
									-25.00	(BASEBOARDS)	
2026SW Perim Zn (G.SW11)	536.	0.	0.144	1.000	0.	16.52	0.70	12.01	-22.43	-39.44	1.
									-25.00	(BASEBOARDS)	
2026SSW Perim Zn (G.SSW12	798.	0.	0.214	1.000	0.	24.42	0.70	17.87	-33.15	-46.48	1.
									-25.00	(BASEBOARDS)	
2026South Perim Zn (G.S13	458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-19.14	-37.34	1.
									-25.00	(BASEBOARDS)	
2026East Perim Zn (M.E20)	1134.	0.	0.304	1.000	0.	34.86	0.70	25.39	-47.34	-55.52	5.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (M.WNW21	1432.	0.	0.384	1.000	0.	43.85	0.70	32.05	-59.54	-63.53	5.
									-25.00	(BASEBOARDS)	
2026NNE Perim Zn (M.NNE22	4566.	0.	1.223	1.000	0.	139.10	0.70	102.22	-188.87	-147.87	5.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (M.WNW23	1220.	0.	0.327	1.000	0.	37.26	0.70	27.31	-50.59	-57.83	5.
									-25.00	(BASEBOARDS)	
2026ESE Perim Zn (M.ESE24	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.62	-51.41	5.
									-25.00	(BASEBOARDS)	
2026SW Perim Zn (M.SW25)	536.	0.	0.144	1.000	0.	16.52	0.70	12.01	-22.43	-39.44	5.
									-25.00	(BASEBOARDS)	
2026SSW Perim Zn (M.SSW26	798.	0.	0.214	1.000	0.	24.42	0.70	17.87	-33.15	-46.48	5.
									-25.00	(BASEBOARDS)	
2026South Perim Zn (M.S27	458.	0.	0.123	1.000	0.	14.14	0.70	10.26	-19.19	-37.34	5.
									-25.00	(BASEBOARDS)	
2026East Perim Zn (T.E34)	1134.	0.	0.304	1.000	0.	34.86	0.70	25.39	-47.34	-55.52	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (T.WNW35	1432.	0.	0.384	1.000	0.	44.56	0.69	32.05	-60.51	-63.53	1.
									-25.00	(BASEBOARDS)	
2026NNE Perim Zn (T.NNE36	4566.	0.	1.223	1.000	0.	142.58	0.69	102.22	-193.60	-147.87	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (T.WNW37	1220.	0.	0.327	1.000	0.	37.11	0.70	27.31	-50.38	-57.83	1.
									-25.00	(BASEBOARDS)	

(CONTINUED)											
2026ESE Perim Zn (T.ESE38	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.62	-51.41	1.
									-25.00	(BASEBOARDS)	
2026SW Perim Zn (T.SW39)	536.	0.	0.144	1.000	0.	16.72	0.69	12.01	-22.70	-39.44	1.
									-25.00	(BASEBOARDS)	
2026SSW Perim Zn (T.SSW40	798.	0.	0.214	1.000	0.	24.63	0.70	17.87	-33.44	-46.48	1.
									-25.00	(BASEBOARDS)	
2026South Perim Zn (T.S41	458.	0.	0.123	1.000	0.	14.19	0.70	10.26	-19.26	-37.34	1.
									-25.00	(BASEBOARDS)	
1519Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519West Perim Zn (G.W12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519WNW Perim Zn (G.WNW13	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Pl Zn (G.14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Pl Zn (M.28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Pl Zn (T.42)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Pl Zn (G.14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Pl Zn (M.28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Pl Zn (T.42)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)		CAPACITY	EIR	EIR	SUPP-HEAT
			(SQFT)		RATIO	(KBTU/HR)			(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
HP		1.000	303446.3	169.	0.000	0.000	0.000		0.000	0.278	0.205	0.000
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH				MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN		RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL		(FRAC)	(FRAC)
SUPPLY		155487.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU
28NNW Perim Zn (G.NNW5)			1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-68.37	-69.38
											-25.00	(BASEBOARDS)
28NNE Perim Zn (G.NNE6)			1654.	0.	0.443	1.000	0.	50.37	0.70	37.02	-68.40	-69.50
											-25.00	(BASEBOARDS)
28East Perim Zn (G.E7)			1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-47.03	-55.52
											-25.00	(BASEBOARDS)
28ESE Perim Zn (G.ESE8)			981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.61	-51.41
											-25.00	(BASEBOARDS)
28South Perim Zn (G.S9)			458.	0.	0.123	1.000	0.	14.03	0.70	10.26	-19.05	-37.34
											-25.00	(BASEBOARDS)
28SSW Perim Zn (G.SSW10)			668.	0.	0.179	1.000	0.	20.38	0.70	14.96	-27.68	-42.98
											-25.00	(BASEBOARDS)
28SW Perim Zn (G.SW11)			666.	0.	0.179	1.000	0.	20.38	0.70	14.92	-27.67	-42.94
											-25.00	(BASEBOARDS)
28WNW Perim Zn (G.WNW12)			1427.	0.	0.382	1.000	0.	43.49	0.70	31.95	-59.05	-63.40
											-25.00	(BASEBOARDS)
2936NNW Perim Zn (M.NNW18			1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-68.37	-69.38
											-25.00	(BASEBOARDS)
2936NNE Perim Zn (M.NNE19			1654.	0.	0.443	1.000	0.	50.57	0.70	37.02	-68.66	-69.50
											-25.00	(BASEBOARDS)
2936East Perim Zn (M.E20)			1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-47.03	-55.52
											-25.00	(BASEBOARDS)
2936ESE Perim Zn (M.ESE21			981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.61	-51.41
											-25.00	(BASEBOARDS)
2936South Perim Zn (M.S22			458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-19.13	-37.34
											-25.00	(BASEBOARDS)
2936SSW Perim Zn (M.SSW23			668.	0.	0.179	1.000	0.	20.45	0.70	14.96	-27.76	-42.98
											-25.00	(BASEBOARDS)
2936SW Perim Zn (M.SW24)			666.	0.	0.179	1.000	0.	20.48	0.70	14.92	-27.81	-42.94
											-25.00	(BASEBOARDS)
2936WNW Perim Zn (M.WNW25			1427.	0.	0.382	1.000	0.	43.53	0.70	31.95	-59.11	-63.40
											-25.00	(BASEBOARDS)
3744NNW Perim Zn (M.NNW18			1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-68.37	-69.38
											-25.00	(BASEBOARDS)
3744NNE Perim Zn (M.NNE19			1654.	0.	0.443	1.000	0.	50.57	0.70	37.02	-68.66	-69.50
											-25.00	(BASEBOARDS)
3744East Perim Zn (M.E20)			1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-47.03	-55.52
											-25.00	(BASEBOARDS)
3744ESE Perim Zn (M.ESE21			981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.61	-51.41
											-25.00	(BASEBOARDS)

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3744South Perim Zn (M.S22	458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-19.13	-37.34	8.
									-25.00	(BASEBOARDS)	
3744SSW Perim Zn (M.SSW23	668.	0.	0.179	1.000	0.	20.45	0.70	14.96	-27.76	-42.98	8.
									-25.00	(BASEBOARDS)	
3744SW Perim Zn (M.SW24)	666.	0.	0.179	1.000	0.	20.48	0.70	14.92	-27.81	-42.94	8.
									-25.00	(BASEBOARDS)	
3744WNW Perim Zn (M.WNW25	1427.	0.	0.382	1.000	0.	43.53	0.70	31.95	-59.11	-63.40	8.
									-25.00	(BASEBOARDS)	
45NNW Perim Zn (T.NNW31)	1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-68.37	-69.38	1.
									-25.00	(BASEBOARDS)	
45NNE Perim Zn (T.NNE32)	1654.	0.	0.443	1.000	0.	50.57	0.70	37.02	-68.66	-69.50	1.
									-25.00	(BASEBOARDS)	
45East Perim Zn (T.E33)	1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-47.03	-55.52	1.
									-25.00	(BASEBOARDS)	
45ESE Perim Zn (T.ESE34)	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.61	-51.41	1.
									-25.00	(BASEBOARDS)	
45South Perim Zn (T.S35)	458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-19.13	-37.34	1.
									-25.00	(BASEBOARDS)	
45SSW Perim Zn (T.SSW36)	668.	0.	0.179	1.000	0.	20.45	0.70	14.96	-27.76	-42.98	1.
									-25.00	(BASEBOARDS)	
45SW Perim Zn (T.SW37)	666.	0.	0.179	1.000	0.	20.48	0.70	14.92	-27.81	-42.94	1.
									-25.00	(BASEBOARDS)	
45WNW Perim Zn (T.WNW38)	1427.	0.	0.382	1.000	0.	43.49	0.70	31.95	-59.05	-63.40	1.
									-25.00	(BASEBOARDS)	
28Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
28Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
28Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
28Pl Zn (G.13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2936Core Zn (M.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
2936Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
2936Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
2936Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.

----- (CONTINUED) -----											
3744Core Zn (M.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
45Core Zn (T.C27)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Core Zn (T.C28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Pl Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
HP	1.000	317636.8	174.	0.000	0.000	0.000	0.000	0.278	0.205	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	160895.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
47NNW Perim Zn (G.NNW1)	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-55.58	-61.01	1.
47West Perim Zn (G.W2)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-25.00	-69.15	9.
47SW Perim Zn (G.SW3)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-67.92	-37.98	9.
47SSW Perim Zn (G.SSW4)	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-20.20	-47.94	9.
47SSE Perim Zn (G.SSE5)	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-35.36	-40.74	9.
47ESE Perim Zn (G.ESE6)	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-25.00	-51.41	9.
47ENE Perim Zn (G.ENE7)	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-40.63	-44.92	9.
47NE Perim Zn (G.NE8)	1392.	0.	0.373	1.000	0.	42.43	0.70	31.17	-30.77	-62.47	9.
47Core Zn (G.C12)	654.	0.	0.175	1.000	0.	20.05	0.70	14.65	-57.61	-42.61	9.
4856NNW Perim Zn (M.NNW14	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-25.00	-61.01	9.
4856West Perim Zn (M.W15)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-25.00	-69.15	9.
4856SW Perim Zn (M.SW16)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-67.92	-37.98	9.
4856SSW Perim Zn (M.SSW17	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-20.20	-47.94	9.
4856SSE Perim Zn (M.SSE18	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-35.36	-40.74	9.
4856ESE Perim Zn (M.ESE19	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-25.00	-51.41	9.
4856ENE Perim Zn (M.ENE20	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-40.63	-44.92	9.
4856NE Perim Zn (M.NE21)	1392.	0.	0.373	1.000	0.	42.50	0.70	31.18	-30.77	-62.47	9.
5765NNW Perim Zn (M.NNW14	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-57.70	-61.01	9.
5765West Perim Zn (M.W15)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-25.00	-69.15	9.
5765SW Perim Zn (M.SW16)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-67.92	-37.98	9.
									-20.20	-42.61	
									-25.00	(BASEBOARDS)	

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5765SSW Perim Zn (M.SSW17	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-35.36	-47.94	9.
									-25.00	(BASEBOARDS)	
5765SSE Perim Zn (M.SSE18	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-24.37	-40.74	9.
									-25.00	(BASEBOARDS)	
5765ESE Perim Zn (M.ESE19	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-40.63	-51.41	9.
									-25.00	(BASEBOARDS)	
5765ENE Perim Zn (M.ENE20	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-30.77	-44.92	9.
									-25.00	(BASEBOARDS)	
5765NE Perim Zn (M.NE21)	1392.	0.	0.373	1.000	0.	42.50	0.70	31.18	-57.70	-62.47	9.
									-25.00	(BASEBOARDS)	
66NNW Perim Zn (T.NNW27)	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-55.58	-61.01	1.
									-25.00	(BASEBOARDS)	
66West Perim Zn (T.W28)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-67.92	-69.15	1.
									-25.00	(BASEBOARDS)	
66SW Perim Zn (T.SW29)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-20.20	-37.98	1.
									-25.00	(BASEBOARDS)	
66SSW Perim Zn (T.SSW30)	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-35.36	-47.94	1.
									-25.00	(BASEBOARDS)	
66SSE Perim Zn (T.SSE31)	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-24.37	-40.74	1.
									-25.00	(BASEBOARDS)	
66ESE Perim Zn (T.ESE32)	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-40.63	-51.41	1.
									-25.00	(BASEBOARDS)	
66ENE Perim Zn (T.ENE33)	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-30.77	-44.92	1.
									-25.00	(BASEBOARDS)	
66NE Perim Zn (T.NE34)	1392.	0.	0.373	1.000	0.	42.43	0.70	31.17	-57.61	-62.47	1.
									-25.00	(BASEBOARDS)	
47Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
47Core Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
47Core Zn (G.C11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
47Pl Zn (G.13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
4856Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
4856Core Zn (M.C23)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
4856Core Zn (M.C24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.

REPORT- SV-A System Design Parameters for					HP Upp-Mid Res		WEATHER FILE- New York CityNY TMY2			
(CONTINUED)										
4856Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5765Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5765Core Zn (M.C23)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5765Core Zn (M.C24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5765Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
66Core Zn (T.C35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
66Core Zn (T.C36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
66Core Zn (T.C37)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
66Pl Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
HP	1.000	336974.5	152.	0.000	0.000	0.000	0.000	0.278	0.205	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	173360.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
68NNW Perim Zn (G.NNW1)	1135.	0.	0.304	1.000	0.	34.85	0.70	25.42	-47.31	-55.56 (BASEBOARDS)	1.
68NE Perim Zn (G.NE2)	1469.	0.	0.394	1.000	0.	44.87	0.70	32.90	-25.00	-64.54 (BASEBOARDS)	1.
68ESE Perim Zn (G.ESE3)	360.	0.	0.097	1.000	0.	11.18	0.69	8.17	-60.93	-34.69 (BASEBOARDS)	1.
68West Perim Zn (G.W4)	1554.	0.	0.417	1.000	0.	47.46	0.70	34.80	-15.18	-66.83 (BASEBOARDS)	1.
68SW Perim Zn (G.SW5)	449.	0.	0.120	1.000	0.	13.90	0.70	10.05	-25.00	-37.08 (BASEBOARDS)	1.
68South Perim Zn (G.S6)	852.	0.	0.228	1.000	0.	26.17	0.70	19.09	-18.87	-47.94 (BASEBOARDS)	1.
68ESE Perim Zn (G.ESE9)	298.	0.	0.080	1.000	0.	9.22	0.70	6.67	-35.53	-33.02 (BASEBOARDS)	1.
68DBWNW Perim Zn (G.WNW1)	3512.	0.	0.941	1.000	0.	108.28	0.70	78.63	-12.51	-119.82 (BASEBOARDS)	1.
69NNW Perim Zn (G.NNW1)	1135.	0.	0.304	1.000	0.	34.85	0.70	25.42	-147.02	-55.56 (BASEBOARDS)	1.
69NE Perim Zn (G.NE2)	1469.	0.	0.394	1.000	0.	44.88	0.70	32.90	-25.00	-64.54 (BASEBOARDS)	1.
69ESE Perim Zn (G.ESE3)	358.	0.	0.096	1.000	0.	11.12	0.69	8.12	-60.93	-34.64 (BASEBOARDS)	1.
69West Perim Zn (G.W4)	1554.	0.	0.417	1.000	0.	47.47	0.70	34.80	-15.09	-66.83 (BASEBOARDS)	1.
69SW Perim Zn (G.SW5)	449.	0.	0.120	1.000	0.	13.79	0.70	10.05	-25.00	-37.08 (BASEBOARDS)	1.
69South Perim Zn (G.S6)	852.	0.	0.228	1.000	0.	26.17	0.70	19.09	-18.73	-47.94 (BASEBOARDS)	1.
70NNW Perim Zn (G.NNW1)	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-35.53	-56.48 (BASEBOARDS)	1.
70West Perim Zn (G.W2)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-48.64	-65.91 (BASEBOARDS)	1.
70SW Perim Zn (G.SW3)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-62.96	-37.08 (BASEBOARDS)	1.
70South Perim Zn (G.S4)	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-18.68	-53.55 (BASEBOARDS)	1.
70NE Perim Zn (G.NE5)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-44.08	-40.85 (BASEBOARDS)	1.
70ENE Perim Zn (G.ENE6)	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-24.49	-67.88 (BASEBOARDS)	1.

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70SE Perim Zn (G.SE7)	990.	0.	0.265	1.000	0.	30.23	0.70	22.16	-41.05	-51.64	1.
									-25.00	(BASEBOARDS)	
70Core Zn (G.C8)	212.	0.	0.057	1.000	0.	6.59	0.69	4.75	-8.94	-30.71	1.
									-25.00	(BASEBOARDS)	
7179NNW Perim Zn (M.NNW13	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-48.64	-56.48	9.
									-25.00	(BASEBOARDS)	
7179West Perim Zn (M.W14)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-62.96	-65.91	9.
									-25.00	(BASEBOARDS)	
7179SW Perim Zn (M.SW15)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-18.68	-37.08	9.
									-25.00	(BASEBOARDS)	
7179South Perim Zn (M.S16	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-44.08	-53.55	9.
									-25.00	(BASEBOARDS)	
7179NE Perim Zn (M.NE17)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-24.49	-40.85	9.
									-25.00	(BASEBOARDS)	
7179ENE Perim Zn (M.ENE18	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-65.91	-67.88	9.
									-25.00	(BASEBOARDS)	
7179SE Perim Zn (M.SE19)	990.	0.	0.265	1.000	0.	30.25	0.70	22.16	-41.07	-51.64	9.
									-25.00	(BASEBOARDS)	
8087NNW Perim Zn (M.NNW13	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-48.64	-56.48	8.
									-25.00	(BASEBOARDS)	
8087West Perim Zn (M.W14)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-62.96	-65.91	8.
									-25.00	(BASEBOARDS)	
8087SW Perim Zn (M.SW15)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-18.68	-37.08	8.
									-25.00	(BASEBOARDS)	
8087South Perim Zn (M.S16	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-44.08	-53.55	8.
									-25.00	(BASEBOARDS)	
8087NE Perim Zn (M.NE17)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-24.49	-40.85	8.
									-25.00	(BASEBOARDS)	
8087ENE Perim Zn (M.ENE18	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-65.91	-67.88	8.
									-25.00	(BASEBOARDS)	
8087SE Perim Zn (M.SE19)	990.	0.	0.265	1.000	0.	30.25	0.70	22.16	-41.07	-51.64	8.
									-25.00	(BASEBOARDS)	
88NNW Perim Zn (T.NNW25)	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-48.64	-56.48	1.
									-25.00	(BASEBOARDS)	
88West Perim Zn (T.W26)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-62.96	-65.91	1.
									-25.00	(BASEBOARDS)	
88SW Perim Zn (T.SW27)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-18.68	-37.08	1.
									-25.00	(BASEBOARDS)	
88South Perim Zn (T.S28)	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-44.08	-53.55	1.
									-25.00	(BASEBOARDS)	
88NE Perim Zn (T.NE29)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-24.49	-40.85	1.
									-25.00	(BASEBOARDS)	
88ENE Perim Zn (T.ENE30)	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-65.91	-67.88	1.
									-25.00	(BASEBOARDS)	

(CONTINUED)											
88SE Perim Zn (T.SE31)	990.	0.	0.265	1.000	0.	30.23	0.70	22.16	-41.05	-51.64	1.
									-25.00	(BASEBOARDS)	
89NNW Perim Zn (G.NNW1)	1083.	0.	0.290	1.000	0.	33.25	0.70	24.24	-45.15	-54.14	2.
									-25.00	(BASEBOARDS)	
89NE Perim Zn (G.NE2)	589.	0.	0.158	1.000	0.	18.09	0.70	13.19	-24.56	-40.85	2.
									-25.00	(BASEBOARDS)	
89ESE Perim Zn (G.ESE3)	825.	0.	0.221	1.000	0.	25.25	0.70	18.46	-34.29	-47.19	2.
									-25.00	(BASEBOARDS)	
89West Perim Zn (G.W4)	1607.	0.	0.431	1.000	0.	49.07	0.70	35.98	-66.62	-68.25	2.
									-25.00	(BASEBOARDS)	
89SW Perim Zn (G.SW5)	449.	0.	0.120	1.000	0.	13.79	0.70	10.05	-18.73	-37.08	2.
									-25.00	(BASEBOARDS)	
89South Perim Zn (G.S6)	1153.	0.	0.309	1.000	0.	35.38	0.70	25.81	-48.03	-56.03	2.
									-25.00	(BASEBOARDS)	
89DBWNW Perim Zn (G.WNW1)	3110.	0.	0.833	1.000	0.	95.87	0.70	69.63	-130.17	-108.97	2.
									-25.00	(BASEBOARDS)	
68Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
68Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
68Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
68DBPl Zn (G.2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
70Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
70Core Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
70Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
7179Core Zn (M.C20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
7179Core Zn (M.C21)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
7179Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
7179Pl Zn (M.24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
8087Core Zn (M.C20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
8087Core Zn (M.C21)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
8087Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
8087Pl Zn (M.24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
88Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
88Core Zn (T.C33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
88Core Zn (T.C34)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
88Pl Zn (T.36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
89Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89DBPl Zn (G.2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	311.1	1.	0.700	27.262	0.585	-34.072	0.257	0.257	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	550.	1.00	0.172	0.96	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3ESE Perim Zn (B.ESE7)	550.		0.	0.000	0.700	385.	0.00	0.00	12.47	-20.79	-10.40	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
		(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	483.5	2.	0.000	47.495	0.771	-59.368	0.277	0.277	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
		FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)			RATIO (FRAC)	RATIO (FRAC)
SUPPLY	1600.	1.00	0.566	1.09	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	SENSIBLE	EXTRACTION	HEATING	ADDITION
		FLOW (CFM)	FLOW (CFM)		FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)		RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)
SC3Core Zn (B.C6)		1600.	0.	0.000	0.001	0.	0.00	0.00	36.29	-43.20	-21.60

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	396.9	2.	0.700	27.278	0.585	-34.092	0.257	0.257	0.000		
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN	FAN	MAX FAN	MIN FAN
									PLACEMENT	CONTROL	RATIO (FRAC)	RATIO (FRAC)
SUPPLY	550.	1.00	0.172	0.96	0.0	0.00	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
	ZONE NAME	SUPPLY		EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
		FLOW (CFM)	FLOW (CFM)	FLOW (FRAC)		AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	MULT
SC3Core Zn (B.C3)			240.	0.	0.000	0.700	168.	0.00	0.00	5.44	-9.07	-4.53
SC3Core Zn (B.C5)			310.	0.	0.000	0.700	217.	0.00	0.00	7.03	-11.72	-5.86

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	15940.2	64.	0.600	285.699	0.591	-357.079	0.294	0.294	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	6000.	1.00	2.244	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
SC3SSW Perim Zn (B.SSW2)	5868.	0.	0.000	0.600	3521.	0.00	0.00	133.09	-190.14	-95.07	1.
SC3Core Zn (B.C4)	132.	0.	0.000	0.600	79.	0.00	0.00	2.99	-4.26	-2.13	1.
SC3North Perim Zn (B.N1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	946.4	19.	0.540	38.036	0.592	-47.536	0.260	0.260	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	800.	1.00	0.335	1.29	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC2Core Zn (B.C3)	800.	0.	0.000	0.540	432.	0.00	0.00	18.14	-23.33	-11.66	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)			
PVAVS	1.000	4738.5	95.	0.880	217.243	0.578	-271.594	0.273	0.273	0.000			
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)		
SUPPLY	4000.	1.00	1.208	0.93	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30		
ZONE NAME			SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC2SSW Perim Zn (B.SSW7)			1716.	0.	0.000	0.880	1510.	0.00	0.00	38.93	-81.56	-40.78	
SC2ESE Perim Zn (B.ESE8)			2284.	0.	0.000	0.880	2010.	0.00	0.00	51.79	-108.52	-54.26	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	2705.3	54.	0.250	124.478	0.628	-155.597	0.287	0.287	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	3000.	1.00	1.902	1.96	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
CESE Perim Zn (B.ESE8)	3000.		0.	0.000	0.250	750.	0.00	0.00	68.04	-81.00	-40.50	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP			
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT			
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)			
PVAVS	1.000	1410.0	28.	0.800	57.767	0.579	-72.208	0.247	0.247	0.000			
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	1100.	1.00	0.343	0.96	0.0	0.00	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
	ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
CCore Zn (B.C10)			1100.	0.	0.000	0.800	880.	0.00	0.00	24.95	-47.52	-23.76	
CWNW Perim Zn (B.WNW6)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	5336.8	107.	1.000	442.218	0.572	-552.773	0.232	0.232	0.000		
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN	FAN	MAX FAN	MIN FAN
									PLACEMENT	CONTROL	RATIO (FRAC)	RATIO (FRAC)
	SUPPLY	7000.	1.00	8.389	3.70	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
	ZONE NAME	SUPPLY		EXHAUST	FAN (KW)	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
		FLOW (CFM)	FLOW (CFM)	FLOW (FRAC)		AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	MU
	GESE Perim Zn (G.ESE11)	2354.		0.	0.000	1.000	2354.	0.00	0.00	53.39	-127.13	-63.56
	1MCore Zn (G.C8)	4646.		0.	0.000	1.000	4646.	0.00	0.00	105.37	-250.87	-125.44

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	70592.2	35.	0.000	422.788	0.757	-528.485	0.277	0.277	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	13800.	1.00	6.679	1.50	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCCore Zn (G.C10)	5090.	0.	0.000	0.001	0.	0.00	0.00	115.45	-137.44	-68.72	1.
6MCCore Zn (G.C8)	8710.	0.	0.000	0.001	0.	0.00	0.00	197.53	-235.16	-117.58	1.
6MCPl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Thermal Zone 555	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING	HEATING	HEAT PUMP			
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)			
PVAVS	1.000	2836.6	11.	0.500	78.742	0.597	-98.427	0.277	0.277	0.000			
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	1700.	1.00	0.823	1.50	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30		
	ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCWSW Perim Zn (G.WSW1)			1700.	0.	0.000	0.500	850.	0.00	0.00	38.56	-45.90	-22.95	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	2055.5	8.	0.590	79.776	0.588	-99.721	0.277	0.277	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1650.	1.00	0.799	1.50	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNorth Perim Zn (G.N2)	1650.	0.	0.000	0.590	974.	0.00	0.00	37.42	-52.57	-26.28	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	801.8	3.	0.600	75.849	0.592	-94.811	0.262	0.262	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1600.	1.00	0.566	1.09	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNW Perim Zn (G.NW3)	1600.	0.	0.000	0.600	960.	0.00	0.00	36.29	-51.84	-25.92	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP			
		(SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)			
PVAVS	1.000	1936.7	8.	0.000	62.182	0.746	-77.728	0.275	0.275	0.000			
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN	STATIC	TOTAL	MECH	FAN	MAX FAN	MIN FAN		
					DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)				PLACEMENT	CONTROL
	SUPPLY	2000.	1.00	0.730	1.13	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
	ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
			FLOW (CFM)	FLOW (CFM)		FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE
	6MCSSW Perim Zn (G.SSW6)		2000.	0.	0.000	0.001	0.	0.00	0.00	45.36	-54.00	-27.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	17861.5	103.	1.000	939.301	0.572	-1184.336	0.232	0.230	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	15000.	1.00	16.779	3.46	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCCore Zn (G.C7)	8571.	0.	0.000	1.000	8571.	0.00	0.00	194.38	-462.81	-231.41	1.
8AWSW Perim Zn (G.WSW2)	3427.	0.	0.000	1.000	3427.	0.00	0.00	77.72	-185.04	-92.52	1.
8ACore Zn (G.C4)	493.	0.	0.000	1.000	493.	0.00	0.00	11.17	-26.60	-13.30	1.
8ANNE Perim Zn (G.NNE5)	323.	0.	0.000	1.000	323.	0.00	0.00	7.33	-17.46	-8.73	1.
8ANNE Perim Zn (G.NNE7)	216.	0.	0.000	1.000	216.	0.00	0.00	4.90	-11.67	-5.83	1.
8ASW Perim Zn (G.SW9)	523.	0.	0.000	1.000	523.	0.00	0.00	11.86	-28.24	-14.12	1.
8AESE Perim Zn (G.ESE12)	1448.	0.	0.000	1.000	1448.	0.00	0.00	32.83	-78.18	-39.09	1.
6MC New Zn	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ANW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ANNE Perim Zn (G.NNE3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ACore Zn (G.C6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ACore Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8AWSW Perim Zn (G.WSW10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ASSW Perim Zn (G.SSW11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	36307.3	145.	1.000	829.562	0.571	-1036.952	0.232	0.232	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	13000.	1.00	16.778	3.99	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNNE Perim Zn (G.NNE4)	4175.	0.	0.000	1.000	4175.	0.00	0.00	94.69	-225.46	-112.73	1.
10ASSW Perim Zn (G.SSW2)	339.	0.	0.000	1.000	339.	0.00	0.00	7.69	-18.30	-9.15	1.
10AESE Perim Zn (G.ESE4)	1116.	0.	0.000	1.000	1116.	0.00	0.00	25.31	-60.26	-30.13	1.
10ASSW Perim Zn (G.SSW7)	5406.	0.	0.000	1.000	5406.	0.00	0.00	122.61	-291.92	-145.96	1.
10AENE Perim Zn (G.ENE9)	1964.	0.	0.000	1.000	1964.	0.00	0.00	44.55	-106.06	-53.03	1.
6MCESE Perim Zn (G.ESE5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AWNWN Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10ACore Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10ACore Zn (G.C5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AESE Perim Zn (G.ESE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AP1 Zn (G.10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MWNWN Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MSSW Perim Zn (G.SSW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MCore Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MESE Perim Zn (G.ESE4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MCore Zn (G.C5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MESE Perim Zn (G.ESE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MSSW Perim Zn (G.SSW7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MNorth Perim Zn (G.N8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MENE Perim Zn (G.ENE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
6MCCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	17378.2	70.	0.000	60.483	0.761	-75.604	0.262	0.262	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	2000.	1.00	0.730	1.13	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
8MCNNE Perim Zn (G.NNE1)	2000.	0.	0.000	0.001	0.	0.00	0.00	45.36	-54.00	-27.00	1.
8MCSSW Perim Zn (G.SSW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCNNE Perim Zn (G.NNE1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCWNW Perim Zn (G.WNW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCSW Perim Zn (G.SW3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCSSW Perim Zn (G.SSW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCWSW Perim Zn (G.WSW5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCSE Perim Zn (G.SE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11MCCore Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
11DBWNW Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE (SHR)	HEATING CAPACITY	COOLING	HEATING	HEAT PUMP			
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	EIR	EIR	SUPP-HEAT			
								(BTU/BTU)	(BTU/BTU)	(KBTU/HR)			
PVAVS	1.000	3626.4	36.	0.180	383.885	0.657	-479.856	0.232	0.232	0.000			
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	10000.	1.00	8.000	2.47	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30		
	ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
10A	North Perim Zn (G.N8)		10000.	0.	0.000	0.180	1800.	0.00	0.00	226.80	-270.00	-135.00	

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
			(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVAVS		1.000	11098.6	46.	0.000	94.008	0.742	-117.510	0.267	0.267	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)	
SUPPLY		3000.	1.00	1.125	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE			SUPPLY	EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
27MCCore Zn (G.C1)			106.	0.	0.000	0.001	0.	0.00	0.00	2.40	-2.86	-1.43
27MCCore Zn (G.C2)			108.	0.	0.000	0.001	0.	0.00	0.00	2.45	-2.92	-1.46
27MCCore Zn (G.C3)			137.	0.	0.000	0.001	0.	0.00	0.00	3.11	-3.70	-1.85
27MCCore Zn (G.C4)			102.	0.	0.000	0.001	0.	0.00	0.00	2.32	-2.76	-1.38
27MCCore Zn (G.C5)			384.	0.	0.000	0.001	0.	0.00	0.00	8.71	-10.37	-5.18
27MCEast Perim Zn (G.E6)			580.	0.	0.000	0.001	0.	0.00	0.00	13.15	-15.66	-7.83
27MCESE Perim Zn (G.ESE10			502.	0.	0.000	0.001	0.	0.00	0.00	11.38	-13.55	-6.77
27MCSSW Perim Zn (G.SW11)			354.	0.	0.000	0.001	0.	0.00	0.00	8.02	-9.55	-4.78
27MCSSW Perim Zn (G.SSW12			408.	0.	0.000	0.001	0.	0.00	0.00	9.26	-11.02	-5.51
27MCSouth Perim Zn (G.S13			319.	0.	0.000	0.001	0.	0.00	0.00	7.23	-8.61	-4.30
27MCWNW Perim Zn (G.WNW7)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
27MCNNE Perim Zn (G.NNE8)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
27MCWNW Perim Zn (G.WNW9)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	17511.2	35.	0.000	91.947	0.754	-114.934	0.267	0.267	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	3000.	1.00	1.125	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
46MCCore Zn (T.C27)	192.	0.	0.000	0.001	0.	0.00	0.00	4.34	-5.17	-2.59
46MCCore Zn (T.C28)	243.	0.	0.000	0.001	0.	0.00	0.00	5.52	-6.57	-3.29
46MCCore Zn (T.C29)	182.	0.	0.000	0.001	0.	0.00	0.00	4.12	-4.90	-2.45
46MCCore Zn (T.C30)	681.	0.	0.000	0.001	0.	0.00	0.00	15.45	-18.39	-9.20
46MCSSW Perim Zn (T.SSW36)	808.	0.	0.000	0.001	0.	0.00	0.00	18.33	-21.82	-10.91
46MCSW Perim Zn (T.SW37)	894.	0.	0.000	0.001	0.	0.00	0.00	20.28	-24.14	-12.07
46MCNNW Perim Zn (T.NNW31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCNNE Perim Zn (T.NNE32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCEast Perim Zn (T.E33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCESE Perim Zn (T.ESE34)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCSouth Perim Zn (T.S35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCWNW Perim Zn (T.WNW38)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCP1 Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	8211.1	33.	0.500	314.745	0.603	-393.432	0.267	0.267	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	7000.	1.00	2.625	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
67MCSW Perim Zn (G.SW3)	893.	0.	0.000	0.500	446.	0.00	0.00	20.24	-24.10	-12.05	1.
67MCSSW Perim Zn (G.SSW4)	760.	0.	0.000	0.500	380.	0.00	0.00	17.23	-20.51	-10.26	1.
67MCSSE Perim Zn (G.SSE5)	937.	0.	0.000	0.500	469.	0.00	0.00	21.26	-25.31	-12.65	1.
67MCESE Perim Zn (G.ESE6)	865.	0.	0.000	0.500	432.	0.00	0.00	19.61	-23.35	-11.67	1.
67MCENE Perim Zn (G.ENE7)	1058.	0.	0.000	0.500	529.	0.00	0.00	24.00	-28.58	-14.29	1.
67MCNE Perim Zn (G.NE8)	1227.	0.	0.000	0.500	613.	0.00	0.00	27.82	-33.12	-16.56	1.
67MCCore Zn (G.C9)	186.	0.	0.000	0.500	93.	0.00	0.00	4.22	-5.02	-2.51	1.
67MCCore Zn (G.C10)	236.	0.	0.000	0.500	118.	0.00	0.00	5.35	-6.37	-3.18	1.
67MCCore Zn (G.C11)	576.	0.	0.000	0.500	288.	0.00	0.00	13.07	-15.56	-7.78	1.
67MCCore Zn (G.C12)	262.	0.	0.000	0.500	131.	0.00	0.00	5.95	-7.09	-3.54	1.
67MCNNW Perim Zn (G.NNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
67MCWest Perim Zn (G.W2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	4916.5	21.	0.000	163.952	0.765	-204.940	0.264	0.264	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	5500.	1.00	1.265	0.71	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
91West Perim Zn (G.W4)	1563.	0.	0.000	0.001	0.	0.00	0.00	35.46	-42.21	-21.10	1.
91SW Perim Zn (G.SW5)	437.	0.	0.000	0.001	0.	0.00	0.00	9.90	-11.79	-5.90	1.
91South Perim Zn (G.S6)	1121.	0.	0.000	0.001	0.	0.00	0.00	25.44	-30.28	-15.14	1.
91Core Zn (G.C7)	261.	0.	0.000	0.001	0.	0.00	0.00	5.92	-7.05	-3.52	1.
91Core Zn (G.C8)	207.	0.	0.000	0.001	0.	0.00	0.00	4.68	-5.58	-2.79	1.
91Core Zn (G.C9)	290.	0.	0.000	0.001	0.	0.00	0.00	6.57	-7.82	-3.91	1.
91ESE Perim Zn (G.ESE11)	1621.	0.	0.000	0.001	0.	0.00	0.00	36.77	-43.77	-21.89	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	4498.6	13.	0.000	319.285	0.780	-454.647	0.264	0.232	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	11000.	1.00	2.442	0.69	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
92West Perim Zn (G.W4)	3994.	0.	0.000	0.001	0.	0.00	0.00	90.57	-107.82	-53.91
92South Perim Zn (G.S6)	2865.	0.	0.000	0.001	0.	0.00	0.00	64.98	-77.35	-38.68
92ESE Perim Zn (G.ESE11)	4142.	0.	0.000	0.001	0.	0.00	0.00	93.93	-111.82	-55.91
92SW Perim Zn (G.SW5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
92Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	14195.9	16.	0.000	695.375	0.782	-869.219	0.235	0.235	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	24000.	1.00	5.856	0.75	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
92Core Zn (G.C7)	739.	0.	0.000	0.001	0.	0.00	0.00	16.75	-19.95	-9.97	1.
92Core Zn (G.C8)	735.	0.	0.000	0.001	0.	0.00	0.00	16.67	-19.84	-9.92	1.
93MERZn	11263.	0.	0.000	0.001	0.	0.00	0.00	255.45	-304.11	-152.05	2.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	5878.0	6.	1.000	199.606	0.528	-159.685	0.250	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
1519Core Zn (M.C19)	333.	0.	0.000	1.000	333.	0.00	0.00	7.56	0.00	-1.80	
1519Core Zn (G.C5)	333.	0.	0.000	1.000	333.	0.00	0.00	7.56	0.00	5.40	
1519Core Zn (T.C33)	333.	0.	0.000	1.000	333.	0.00	0.00	7.56	0.00	5.40	



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP			
		(SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)			
PSZ	1.000	4571.8	5.	1.000	202.585	0.520	-162.068	0.250	0.313	0.000			
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN	FAN	MAX FAN	MIN FAN	
									PLACEMENT	CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30		
	ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
			FLOW	FLOW		FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
			(CFM)	(CFM)		(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
2026Core Zn (G.C5)			429.	0.	0.000	1.000	429.	0.00	0.00	9.72	0.00	-2.31	
2026Core Zn (M.C19)			429.	0.	0.000	1.000	429.	0.00	0.00	9.72	0.00	6.94	
2026Core Zn (T.C33)			429.	0.	0.000	1.000	429.	0.00	0.00	9.72	0.00	6.94	

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	11756.0	12.	1.000	202.585	0.520	-162.068	0.250	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
28Core Zn (G.C4)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	-0.90	1.
2936Core Zn (M.C17)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	2.70	8.
3744Core Zn (M.C17)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	2.70	8.
45Core Zn (T.C30)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	2.70	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	10808.6	11.	1.000	253.231	0.520	-202.585	0.250	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	3750.	1.00	3.495	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
4856Core Zn (M.C25)	197.	0.	0.000	1.000	197.	0.00	0.00	4.48	0.00	-1.07	
5765Core Zn (M.C25)	197.	0.	0.000	1.000	197.	0.00	0.00	4.48	0.00	3.20	
66Core Zn (T.C38)	197.	0.	0.000	1.000	197.	0.00	0.00	4.48	0.00	3.20	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PSZ	1.000	15364.7	45.	1.000	270.113	0.520	-216.091	0.250	0.313	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	4000.	1.00	3.728	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
8087Core Zn (M.C23)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	-0.80	8.
68Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
69Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
70Core Zn (G.C11)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
7179Core Zn (M.C23)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	9.
88Core Zn (T.C35)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
89Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	2.
90Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	2.
91Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
92Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
		(SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PSZ	1.000	10000.0	0.	1.000	1026.362	0.518	-584.616	0.178	0.313	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
		FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)				
SUPPLY	14500.	1.00	19.691	4.20	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	14500.	1.00	1.160	0.25	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30
ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	SENSIBLE	EXTRACTION	HEATING	ADDITION
		FLOW (CFM)	FLOW (CFM)		FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)			RATE (KBTU/HR)	CAPACITY (KBTU/HR)
ERU-11-1 Zn		14500.	0.	0.000	1.000	14500.	0.00	0.00	328.86	0.00	-234.90

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	724.543	0.518	-412.700	0.178	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	10000.	1.00	15.810	4.89	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	10000.	1.00	0.800	0.25	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-27-1 Zn	10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PSZ	1.000	10000.0	0.	1.000	724.543	0.518	-412.700	0.178	0.313	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	10000.	1.00	15.810	4.89	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30	
RETURN	10000.	1.00	0.800	0.25	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-27-2 Zn		10000.		0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	724.543	0.518	-412.700	0.178	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	10000.	1.00	15.810	4.89	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	10000.	1.00	0.900	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-46-1 Zn	10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-46-2 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZO
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MU
ERU-67-1 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30	
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-67-2 Zn	12000.		0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-91-1 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
FC	1.000	43345.2	16.	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	16404.	0.00	0.000	0.22	0.0	0.00	0.00	BLOW-THRU	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
90NNW Perim Zn (G.NNW1)	1083.	0.	0.076	1.000	0.	36.01	0.71	24.28	-50.74	-40.84
90NE Perim Zn (G.NE2)	589.	0.	0.041	1.000	0.	19.57	0.71	13.21	-27.60	-22.22
90ESE Perim Zn (G.ESE3)	825.	0.	0.058	1.000	0.	27.40	0.71	18.49	-38.64	-31.10
90West Perim Zn (G.W4)	1607.	0.	0.112	1.000	0.	53.27	0.71	36.03	-75.30	-60.62
90SW Perim Zn (G.SW5)	449.	0.	0.031	1.000	0.	14.92	0.71	10.07	-21.04	-16.93
90South Perim Zn (G.S6)	1153.	0.	0.081	1.000	0.	38.31	0.71	25.85	-54.02	-43.49
91NNW Perim Zn (G.NNW1)	1083.	0.	0.076	1.000	0.	35.92	0.71	24.28	-50.74	-40.84
91NE Perim Zn (G.NE2)	589.	0.	0.041	1.000	0.	19.57	0.71	13.21	-27.60	-22.22
91Core Zn (G.C3)	825.	0.	0.058	1.000	0.	27.23	0.71	18.49	-38.64	-31.10
92NNW Perim Zn (G.NNW1)	1083.	0.	0.076	1.000	0.	35.92	0.71	24.28	-50.74	-40.84
92NE Perim Zn (G.NE2)	589.	0.	0.041	1.000	0.	19.57	0.71	13.21	-27.60	-22.22
92Core Zn (G.C3)	825.	0.	0.058	1.000	0.	27.23	0.71	18.49	-38.64	-31.10
90Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
90Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
90ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
90Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
91Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
92Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

16.312439***** 0.500614 0.005883 0.000000
X, Y, and Z: 90.000000 23.000000 6.627893 MMDDHH: 1 22 4
CURINV: Result out of limits for CURVE:



ES246471832 Scan Code

16.312439***** 0.500614 0.005883 0.000000
X, Y, and Z: 90.000000 23.000000 6.627893
CURINV: Result out of limits for CURVE:



DEPT OF BLDGS 121328205

Job Number



ES274589316

Scan Code

13.591698***** 0.500614 0.005883 0.000000
X, Y, and Z: 90.000000 26.000000 6.747254 MMDDHH: 2 12 23
CURINV: Result out of limits for CURVE:



ES755347545 Scan Code

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

NUMBER OF SPACES 529 EXTERIOR 334 INTERIOR 195

SPACE	SPACE*FLOOR MULTIPLIER	SPACE TYPE	AZIM	LIGHTS (WATT / SQFT)	PEOPLE	EQUIP (WATT / SQFT)	INFILTRATION METHOD	ACH	AREA (SQFT)	VOLUME (CUFT)
Spaces on floor: SC3Below-Grade Flr										
SC3North Perim Spc (B.N1)	1.0	INT	90.0	0.88	31.5	0.25	NO-INFILT.	0.00	7871.5	78714.5
SC3SSW Perim Spc (B.SSW2)	1.0	INT	0.0	0.88	31.6	0.25	NO-INFILT.	0.00	7891.8	78917.5
SC3Core Spc (B.C3)	1.0	INT	0.0	0.88	0.7	0.25	NO-INFILT.	0.00	173.1	1731.3
SC3Core Spc (B.C4)	1.0	INT	0.0	0.88	0.7	0.25	NO-INFILT.	0.00	177.0	1770.0
SC3Core Spc (B.C5)	1.0	INT	0.0	0.88	0.9	0.25	NO-INFILT.	0.00	223.8	2237.5
SC3Core Spc (B.C6)	1.0	INT	0.0	0.88	1.9	0.25	NO-INFILT.	0.00	483.5	4835.0
SC3ESE Perim Spc (B.ESE7)	1.0	INT	-90.0	0.88	1.2	0.25	NO-INFILT.	0.00	311.1	3111.3
Spaces on floor: SC2Below-Grade Flr										
SC2WNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	27216.0
SC2NNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	36251.9
SC2Core Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	13249.6
SC2Core Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	103472.1
SC2SW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	13776.0
SC2WNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	4672.5
SC2SSW Perim Spc (B.SSW7)	1.0	INT	0.0	0.88	40.7	0.25	NO-INFILT.	0.00	2033.3	28465.5
SC2ESE Perim Spc (B.ESE8)	1.0	INT	-90.0	0.88	54.1	0.25	NO-INFILT.	0.00	2705.3	37873.5
SC2Core Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	121145.0
SC2Core Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	15067.0
SC2Core Spc (B.C11)	1.0	INT	0.0	1.00	114.7	0.25	NO-INFILT.	0.00	5737.3	80322.0
Spaces on floor: SC1Below-Grade Flr										
SC1WNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	34020.0
SC1NNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	45314.9
SC1Core Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	16562.0
SC1Core Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	129340.1
SC1SW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	17220.0
SC1WNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	5840.6
SC1SSW Perim Spc (B.SSW7)	1.0	INT	0.0	1.70	40.7	1.00	NO-INFILT.	0.00	2033.3	35581.9
SC1ESE Perim Spc (B.ESE8)	1.0	INT	-90.0	0.88	54.1	0.25	NO-INFILT.	0.00	2705.3	47341.9
SC1Core Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	151431.2
SC1Core Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	18833.8
SC1Core Spc (B.C11)	1.0	INT	0.0	1.70	114.7	1.00	NO-INFILT.	0.00	5737.3	100402.5
Spaces on floor: CBelow-Grade Flr										
CWNW Perim Spc (B.WNW1)	1.0	INT	90.0	1.70	38.9	1.00	NO-INFILT.	0.00	1944.0	34020.0
CNNE Perim Spc (B.NNE2)	1.0	INT	45.0	1.70	51.8	1.00	NO-INFILT.	0.00	2589.4	45314.9
CCore Spc (B.C3)	1.0	INT	0.0	1.70	18.9	1.00	NO-INFILT.	0.00	946.4	16562.0
CCore Spc (B.C4)	1.0	INT	0.0	1.70	147.8	1.00	NO-INFILT.	0.00	7390.9	129340.1
CSW Perim Spc (B.SW5)	1.0	INT	0.0	1.70	19.7	1.00	NO-INFILT.	0.00	984.0	17220.0
CWNW Perim Spc (B.WNW6)	1.0	INT	90.0	1.70	6.7	1.00	NO-INFILT.	0.00	333.8	5840.6

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CSSW Perim Spc (B.SSW7)	1.0	INT	0.0	1.70	40.7	1.00	NO-INFILT.	0.00	2033.3	35581.9
CESE Perim Spc (B.ESE8)	1.0	INT	-90.0	0.88	54.1	0.25	NO-INFILT.	0.00	2705.3	47341.9
CCore Spc (B.C9)	1.0	INT	0.0	1.70	173.1	1.00	NO-INFILT.	0.00	8653.2	151431.2
CCore Spc (B.C10)	1.0	INT	0.0	1.70	21.5	1.00	NO-INFILT.	0.00	1076.2	18833.8
CCore Spc (B.C11)	1.0	INT	0.0	1.70	114.7	1.00	NO-INFILT.	0.00	5737.3	100402.5

Spaces on floor: GGround Flr

GNW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	18.9	1.00	AIR-CHANGE	0.20	946.4	14196.0
GNW Perim Spc (G.NW2)	1.0	EXT	45.0	0.88	53.7	0.25	AIR-CHANGE	0.04	2684.9	40273.1
GNNE Perim Spc (G.NNE3)	1.0	EXT	33.3	1.70	24.6	1.00	AIR-CHANGE	0.16	1231.5	18472.2
GSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	5512.5
GWest Perim Spc (G.W5)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	12566.3
GEast Perim Spc (G.E6)	1.0	EXT	135.0	1.70	18.3	1.00	AIR-CHANGE	0.15	917.2	13757.5
GNNE Perim Spc (G.NNE7)	1.0	EXT	180.0	1.70	63.8	1.00	AIR-CHANGE	0.04	3191.1	47866.2
GWest Perim Spc (G.W8)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	7321.6
GSSW Perim Spc (G.SSW9)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	14979.4
GESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	1.70	9.0	1.00	AIR-CHANGE	0.11	449.1	6736.8
GESE Perim Spc (G.ESE11)	1.0	EXT	0.0	1.70	46.1	1.00	AIR-CHANGE	0.13	2304.7	34571.2
GSSW Perim Spc (G.SSW12)	1.0	EXT	0.0	1.70	37.4	1.00	AIR-CHANGE	0.17	1871.3	28068.8
GCore Spc (G.C13)	1.0	INT	0.0	1.70	62.9	1.00	AIR-CHANGE	0.00	3143.8	47157.0
GCore Spc (G.C14)	1.0	INT	0.0	1.70	11.6	1.00	AIR-CHANGE	0.00	581.2	8717.6
GNNE Perim Spc (G.NNE15)	1.0	EXT	-90.0	1.70	43.7	1.00	AIR-CHANGE	0.08	2182.5	32737.5
GCore Spc (G.C16)	1.0	INT	0.0	1.70	87.5	1.00	AIR-CHANGE	0.00	4376.0	65640.7
GCore Spc (G.C17)	1.0	INT	0.0	1.70	152.4	1.00	AIR-CHANGE	0.00	7621.7	114325.0
GPlnm (G.18)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.06	34193.8	68387.5

Spaces on floor: 1MGround Flr

1MNW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	8112.0
1MNorth Perim Spc (G.N2)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	16842.0
1MSW Perim Spc (G.SW3)	1.0	EXT	66.6	1.70	30.1	1.00	AIR-CHANGE	0.18	1506.9	12055.1
1MSW Perim Spc (G.SW4)	1.0	EXT	90.0	1.70	22.7	1.00	AIR-CHANGE	0.12	1134.8	9078.0
1MSSW Perim Spc (G.SSW5)	1.0	EXT	0.0	1.70	45.0	1.00	AIR-CHANGE	0.17	2247.8	17982.0
1MNNE Perim Spc (G.NNE6)	1.0	EXT	180.0	1.70	44.2	1.00	AIR-CHANGE	0.16	2210.3	17682.0
1MESE Perim Spc (G.ESE7)	1.0	EXT	135.0	1.70	54.1	1.00	AIR-CHANGE	0.16	2704.8	21638.4
1MCore Spc (G.C8)	1.0	INT	0.0	0.88	60.6	0.25	AIR-CHANGE	0.01	3032.1	24256.5
1MCore Spc (G.C9)	1.0	INT	0.0	1.70	28.0	1.00	AIR-CHANGE	0.01	1399.3	11194.6
1MCore Spc (G.C10)	1.0	INT	0.0	0.88	88.4	0.25	AIR-CHANGE	0.01	4420.3	35362.6
1MCore Spc (G.C11)	1.0	INT	0.0	1.70	287.0	1.00	AIR-CHANGE	0.01	14350.5	114804.3

Spaces on floor: 25Ground Flr

25NW Perim Spc (G.NW1)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	17745.0
25North Perim Spc (G.N2)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	36841.9
25SSW Perim Spc (G.SSW3)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	6431.3
25West Perim Spc (G.W4)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	14660.6
25SSW Perim Spc (G.SSW5)	1.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5	38456.3
25Core Spc (G.C6)	1.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4	101157.4
25West Perim Spc (G.W7)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	8541.8
25SSW Perim Spc (G.SSW8)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	17475.9
25ESE Perim Spc (G.ESE9)	1.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1	26094.6
25ESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3	21249.4
25NNE Perim Spc (G.NNE11)	1.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3	28546.9
25NNE Perim Spc (G.NNE12)	1.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0	10132.5
25Core Spc (G.C13)	1.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6	20327.7
25Core Spc (G.C14)	1.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5	29688.8

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25Core Spc (G.C15)	1.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3	163594.4
25Core Spc (G.C16)	1.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5	91270.9

Spaces on floor: 25Mid Flrs

25NW Perim Spc (M.NW17)	2.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	17745.0
25North Perim Spc (M.N18)	2.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	36841.9
25SSW Perim Spc (M.SSW19)	2.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	6431.3
25West Perim Spc (M.W20)	2.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	14660.6
25SSW Perim Spc (M.SSW21)	2.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5	38456.3
25Core Spc (M.C22)	2.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4	101157.4
25West Perim Spc (M.W23)	2.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	8541.8
25SSW Perim Spc (M.SSW24)	2.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	17475.9
25ESE Perim Spc (M.ESE25)	2.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1	26094.6
25ESE Perim Spc (M.ESE26)	2.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3	21249.4
25NNE Perim Spc (M.NNE27)	2.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3	28546.9
25NNE Perim Spc (M.NNE28)	2.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0	10132.5
25Core Spc (M.C29)	2.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6	20327.7
25Core Spc (M.C30)	2.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5	29688.8
25Core Spc (M.C31)	2.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3	163594.4
25Core Spc (M.C32)	2.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5	91270.9

Spaces on floor: 25Top Flr

25NW Perim Spc (T.NW33)	1.0	EXT	90.0	1.70	20.3	1.00	AIR-CHANGE	0.19	1014.0	17745.0
25North Perim Spc (T.N34)	1.0	EXT	180.0	1.70	42.1	1.00	AIR-CHANGE	0.15	2105.3	36841.9
25SSW Perim Spc (T.SSW35)	1.0	EXT	0.0	1.70	7.3	1.00	AIR-CHANGE	0.15	367.5	6431.3
25West Perim Spc (T.W36)	1.0	EXT	90.0	1.70	16.8	1.00	AIR-CHANGE	0.11	837.8	14660.6
25SSW Perim Spc (T.SSW37)	1.0	EXT	0.0	1.70	44.0	1.00	AIR-CHANGE	0.18	2197.5	38456.3
25Core Spc (T.C38)	1.0	INT	0.0	1.70	115.6	1.00	AIR-CHANGE	0.00	5780.4	101157.4
25West Perim Spc (T.W39)	1.0	EXT	66.6	1.70	9.8	1.00	AIR-CHANGE	0.23	488.1	8541.8
25SSW Perim Spc (T.SSW40)	1.0	EXT	0.0	1.70	20.0	1.00	AIR-CHANGE	0.16	998.6	17475.9
25ESE Perim Spc (T.ESE41)	1.0	EXT	135.0	1.70	29.8	1.00	AIR-CHANGE	0.16	1491.1	26094.6
25ESE Perim Spc (T.ESE42)	1.0	EXT	-90.0	1.70	24.3	1.00	AIR-CHANGE	0.17	1214.3	21249.4
25NNE Perim Spc (T.NNE43)	1.0	EXT	90.0	1.70	32.6	1.00	AIR-CHANGE	0.15	1631.3	28546.9
25NNE Perim Spc (T.NNE44)	1.0	EXT	180.0	1.70	11.6	1.00	AIR-CHANGE	0.18	579.0	10132.5
25Core Spc (T.C45)	1.0	INT	0.0	1.70	23.2	1.00	AIR-CHANGE	0.00	1161.6	20327.7
25Core Spc (T.C46)	1.0	INT	0.0	1.70	33.9	1.00	AIR-CHANGE	0.00	1696.5	29688.8
25Core Spc (T.C47)	1.0	INT	0.0	1.70	187.0	1.00	AIR-CHANGE	0.00	9348.3	163594.4
25Core Spc (T.C48)	1.0	INT	0.0	1.70	104.3	1.00	AIR-CHANGE	0.00	5215.5	91270.9

Spaces on floor: 6MCGround Flr

6MCWSW Perim Spc (G.WSW1)	1.0	EXT	66.6	0.88	11.3	0.25	AIR-CHANGE	0.18	2836.6	102119.2
6MCNorth Perim Spc (G.N2)	1.0	EXT	33.3	0.88	8.2	0.25	AIR-CHANGE	0.16	2055.5	73998.7
6MCNW Perim Spc (G.NW3)	1.0	EXT	90.0	0.88	3.2	0.25	AIR-CHANGE	0.22	801.8	28863.0
6MCNNE Perim Spc (G.NNE4)	1.0	EXT	180.0	0.88	8.8	0.25	AIR-CHANGE	0.18	2210.3	79569.0
6MCESE Perim Spc (G.ESE5)	1.0	EXT	-90.0	0.88	9.3	0.25	AIR-CHANGE	0.19	2323.9	83659.5
6MCSSW Perim Spc (G.SSW6)	1.0	EXT	0.0	0.88	7.7	0.25	AIR-CHANGE	0.19	1936.7	69722.0
6MCCore Spc (G.C7)	1.0	INT	0.0	0.88	33.0	0.25	AIR-CHANGE	0.00	8247.1	296895.3
6MCCore Spc (G.C8)	1.0	INT	0.0	0.88	19.5	0.25	AIR-CHANGE	0.00	4872.1	175394.6
6MCCore Spc (G.C9)	1.0	INT	0.0	0.88	11.8	0.25	AIR-CHANGE	0.00	2937.6	105755.0
6MCCore Spc (G.C10)	1.0	INT	0.0	0.88	15.2	0.25	AIR-CHANGE	0.00	3796.7	136681.6
6MCPlnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.06	32018.6	64037.2
6MC Top Spc	1.0	EXT	0.0	0.88	2.9	0.25	NO-INFILT.	0.00	2916.0	58320.0
Roof Spc (6MC)	1.0	EXT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	29904.8	598095.7

Spaces on floor: 8AGround Flr (rev: amen 8 + 9)

8ANW Perim Spc (G.NW1)	1.0	EXT	90.0	0.70	4.5	0.27	AIR-CHANGE	0.22	451.4	10833.4
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8AWSW Perim Spc (G.WSW2)	1.0	EXT	0.0	0.70	33.0	0.27	AIR-CHANGE	0.13	3297.3	79136.0
8ANNE Perim Spc (G.NNE3)	1.0	EXT	90.0	0.70	2.1	0.27	AIR-CHANGE	0.09	205.4	4929.6
8ACore Spc (G.C4)	1.0	INT	0.0	0.70	4.7	0.27	AIR-CHANGE	0.00	474.0	11376.5
8ANNE Perim Spc (G.NNE5)	1.0	EXT	90.0	0.70	3.0	0.27	AIR-CHANGE	0.14	298.3	7159.2
8ACore Spc (G.C6)	1.0	INT	0.0	0.70	1.8	0.27	AIR-CHANGE	0.00	179.8	4314.6
8ANNE Perim Spc (G.NNE7)	1.0	EXT	90.0	0.70	2.1	0.27	AIR-CHANGE	0.12	207.9	4989.6
8ACore Spc (G.C8)	1.0	INT	0.0	0.00	1.8	0.00	AIR-CHANGE	0.00	183.6	4406.4
8ASW Perim Spc (G.SW9)	1.0	EXT	90.0	0.70	5.0	0.27	AIR-CHANGE	0.09	503.2	12077.9
8AWSW Perim Spc (G.WSW10)	1.0	EXT	0.0	0.00	2.3	0.00	AIR-CHANGE	0.30	233.3	5599.8
8ASSW Perim Spc (G.SSW11)	1.0	EXT	0.0	0.00	3.2	0.00	AIR-CHANGE	0.07	324.0	7775.5
8AESE Perim Spc (G.ESE12)	1.0	EXT	-90.0	0.00	3.4	0.27	AIR-CHANGE	0.53	340.1	8162.9

Spaces on floor: 8MAGround Flr (rev: amen mz 8+9)

8MANNE Perim Spc (G.NNE1)	1.0	EXT	90.0	0.70	2.8	0.27	AIR-CHANGE	0.50	706.0	14119.0
8MASSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.70	13.7	0.27	AIR-CHANGE	0.28	3416.3	68326.0

Spaces on floor: 10AGround Flr

10AWNw Perim Spc (G.WNW1)	1.0	EXT	90.0	0.70	11.7	0.27	AIR-CHANGE	0.07	1165.7	16319.2
10ASSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.00	1.2	0.27	AIR-CHANGE	0.63	121.4	1699.4
10ACore Spc (G.C3)	1.0	INT	0.0	0.00	1.8	0.27	AIR-CHANGE	0.00	183.6	2570.4
10AESE Perim Spc (G.ESE4)	1.0	EXT	-90.0	0.70	6.5	0.27	AIR-CHANGE	0.05	653.1	9143.5
10ACore Spc (G.C5)	1.0	INT	0.0	0.00	2.3	0.27	AIR-CHANGE	0.00	233.3	3266.6
10AESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.00	1.7	0.27	AIR-CHANGE	0.24	174.1	2437.6
10ASSW Perim Spc (G.SSW7)	1.0	EXT	0.0	0.70	31.6	0.27	AIR-CHANGE	0.12	3163.8	44292.9
10ANorth Perim Spc (G.N8)	1.0	EXT	90.0	0.70	36.3	0.27	AIR-CHANGE	0.10	3626.4	50769.0
10AENE Perim Spc (G.ENE9)	1.0	EXT	180.0	0.70	15.0	0.27	AIR-CHANGE	0.12	1499.3	20990.4
10APlnm (G.10)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	10820.6	450896.3

Spaces on floor: 10MGround Flr (rev: 11BMU)

10MWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	0.00	4.7	0.00	AIR-CHANGE	0.07	1165.7	67993.0
10MSSW Perim Spc (G.SSW2)	1.0	EXT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.63	121.4	7080.5
10MCore Spc (G.C3)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	183.6	10709.4
10MESE Perim Spc (G.ESE4)	1.0	EXT	-90.0	0.00	2.6	0.00	AIR-CHANGE	0.05	653.1	38095.9
10MCore Spc (G.C5)	1.0	INT	0.0	0.00	0.9	0.00	AIR-CHANGE	0.00	233.3	13609.8
10MESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.00	0.7	0.00	AIR-CHANGE	0.24	174.1	10156.1
10MSSW Perim Spc (G.SSW7)	1.0	EXT	0.0	0.00	12.7	0.00	AIR-CHANGE	0.12	3163.8	184543.1
10MNorth Perim Spc (G.N8)	1.0	EXT	90.0	0.00	14.5	0.00	AIR-CHANGE	0.10	3626.4	211525.4
10MENE Perim Spc (G.ENE9)	1.0	EXT	180.0	0.00	6.0	0.00	AIR-CHANGE	0.12	1499.3	87454.9

Spaces on floor: 11MCGround Flr (rev: 12MC)

11MCNNE Perim Spc (G.NNE1)	1.0	EXT	90.0	0.88	24.8	0.25	AIR-CHANGE	0.11	6201.1	146965.8
11MCWNW Perim Spc (G.WNW2)	1.0	EXT	90.0	0.88	0.6	0.25	AIR-CHANGE	0.12	147.6	3497.6
11MCSW Perim Spc (G.SW3)	1.0	EXT	0.0	0.88	0.5	0.25	AIR-CHANGE	0.44	136.3	3230.3
11MCSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	0.88	1.1	0.25	AIR-CHANGE	0.09	277.1	6566.9
11MCWSW Perim Spc (G.WSW5)	1.0	EXT	90.0	0.88	8.3	0.25	AIR-CHANGE	0.15	2069.4	49045.0
11MCSE Perim Spc (G.SE6)	1.0	EXT	0.0	0.88	5.1	0.25	AIR-CHANGE	0.14	1269.5	30087.2
11MCCore Spc (G.C7)	1.0	INT	0.0	0.88	0.7	0.25	AIR-CHANGE	0.00	183.6	4351.3
11MCCore Spc (G.C8)	1.0	INT	0.0	0.88	0.9	0.25	AIR-CHANGE	0.00	233.3	5529.8
11MCCore Spc (G.C9)	1.0	INT	0.0	0.88	0.7	0.25	AIR-CHANGE	0.00	174.1	4126.5
11MCCore Spc (G.C10)	1.0	INT	0.0	0.88	2.6	0.25	AIR-CHANGE	0.00	653.1	15478.7
ERU-11-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 11DBGround Flr (rev: 12DBMC)

11DBWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	0.88	7.6	0.25	AIR-CHANGE	0.19	1910.8	135667.5
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Spaces on floor: 1519Ground Flr (rev: 13)

1519Core Spc (G.C1)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
1519Core Spc (G.C2)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
1519Core Spc (G.C3)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
1519Core Spc (G.C4)	3.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
1519Core Spc (G.C5)	3.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
1519WNW Perim Spc (G.WNW6)	3.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
1519NNE Perim Spc (G.NNE7)	3.0	EXT	0.0	0.66	3.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
1519East Perim Spc (G.E8)	3.0	EXT	180.0	0.66	2.0	0.24	AIR-CHANGE	0.15	986.2	9862.3
1519ESE Perim Spc (G.ESE9)	3.0	EXT	-90.0	0.66	2.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
1519South Perim Spc (G.S10)	3.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.23	433.7	4336.8
1519SSE Perim Spc (G.SSE11)	3.0	EXT	-90.0	0.66	3.0	0.24	AIR-CHANGE	0.09	1922.4	19223.8
1519West Perim Spc (G.W12)	3.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	1360.4	13604.5
1519WNW Perim Spc (G.WNW13)	3.0	EXT	90.0	0.00	0.0	0.00	AIR-CHANGE	0.07	1060.8	10608.1
1519Plnm (G.14)	3.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 1519Mid Flrs

1519Core Spc (M.C15)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
1519Core Spc (M.C16)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
1519Core Spc (M.C17)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
1519Core Spc (M.C18)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
1519Core Spc (M.C19)	5.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
1519WNW Perim Spc (M.WNW20)	5.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
1519NNE Perim Spc (M.NNE21)	5.0	EXT	0.0	0.66	3.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
1519East Perim Spc (M.E22)	5.0	EXT	180.0	0.66	2.0	0.24	AIR-CHANGE	0.15	986.2	9862.3
1519ESE Perim Spc (M.ESE23)	5.0	EXT	-90.0	0.66	2.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
1519South Perim Spc (M.S24)	5.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.23	433.7	4336.8
1519SSE Perim Spc (M.SSE25)	5.0	EXT	-90.0	0.66	3.0	0.24	AIR-CHANGE	0.09	1922.4	19223.8
1519West Perim Spc (M.W26)	5.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.13	1360.4	13604.5
1519WNW Perim Spc (M.WNW27)	5.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.07	1060.8	10608.1
1519Plnm (M.28)	5.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 1519Top Flr

1519Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
1519Core Spc (T.C30)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
1519Core Spc (T.C31)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
1519Core Spc (T.C32)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
1519Core Spc (T.C33)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
1519WNW Perim Spc (T.WNW34)	1.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.13	1244.8	17427.9
1519NNE Perim Spc (T.NNE35)	1.0	EXT	0.0	0.66	3.0	0.24	AIR-CHANGE	0.05	3970.0	55580.1
1519East Perim Spc (T.E36)	1.0	EXT	180.0	0.66	2.0	0.24	AIR-CHANGE	0.11	986.2	13807.2
1519ESE Perim Spc (T.ESE37)	1.0	EXT	-90.0	0.66	2.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
1519South Perim Spc (T.S38)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.16	433.7	6071.5
1519SSE Perim Spc (T.SSE39)	1.0	EXT	-90.0	0.66	3.0	0.24	AIR-CHANGE	0.06	1922.4	26913.3
1519West Perim Spc (T.W40)	1.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.09	1360.4	19046.3
1519WNW Perim Spc (T.WNW41)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
1519Plnm (T.42)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	13255.9	23860.7

Spaces on floor: 2026Ground Flr

2026Core Spc (G.C1)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
2026Core Spc (G.C2)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
2026Core Spc (G.C3)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6

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2026Core Spc (G.C4)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
2026Core Spc (G.C5)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
2026East Perim Spc (G.E6)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.11	986.2	13807.2
2026WNW Perim Spc (G.WNW7)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.13	1244.8	17427.9
2026NNE Perim Spc (G.NNE8)	1.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.05	3970.0	55580.1
2026WNW Perim Spc (G.WNW9)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
2026ESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
2026SW Perim Spc (G.SW11)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.16	466.4	6530.2
2026SSW Perim Spc (G.SSW12)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.10	694.2	9718.8
2026South Perim Spc (G.S13)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	398.6	5580.1
2026Plnm (G.14)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 2026Mid Flrs

2026Core Spc (M.C15)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	180.0	1800.0
2026Core Spc (M.C16)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1836.0
2026Core Spc (M.C17)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2333.3
2026Core Spc (M.C18)	5.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1741.1
2026Core Spc (M.C19)	5.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6531.1
2026East Perim Spc (M.E20)	5.0	EXT	180.0	0.66	6.2	0.24	AIR-CHANGE	0.15	986.2	9862.3
2026WNW Perim Spc (M.WNW21)	5.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.19	1244.8	12448.5
2026NNE Perim Spc (M.NNE22)	5.0	EXT	0.0	0.66	2.0	0.24	AIR-CHANGE	0.08	3970.0	39700.1
2026WNW Perim Spc (M.WNW23)	5.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.07	1060.8	10608.1
2026ESE Perim Spc (M.ESE24)	5.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	8533.7
2026SW Perim Spc (M.SW25)	5.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.22	466.4	4664.4
2026SSW Perim Spc (M.SSW26)	5.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	694.2	6942.0
2026South Perim Spc (M.S27)	5.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	398.6	3985.8
2026Plnm (M.28)	5.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 2026Top Flr

2026Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	180.0	2520.0
2026Core Spc (T.C30)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
2026Core Spc (T.C31)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
2026Core Spc (T.C32)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
2026Core Spc (T.C33)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
2026East Perim Spc (T.E34)	1.0	EXT	180.0	0.66	6.2	0.24	AIR-CHANGE	0.11	986.2	13807.2
2026WNW Perim Spc (T.WNW35)	1.0	EXT	90.0	0.66	7.8	0.24	AIR-CHANGE	0.13	1244.8	17427.9
2026NNE Perim Spc (T.NNE36)	1.0	EXT	0.0	0.66	24.8	0.24	AIR-CHANGE	0.05	3970.0	55580.1
2026WNW Perim Spc (T.WNW37)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.05	1060.8	14851.3
2026ESE Perim Spc (T.ESE38)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
2026SW Perim Spc (T.SW39)	1.0	EXT	0.0	0.66	2.9	0.24	AIR-CHANGE	0.16	466.4	6530.2
2026SSW Perim Spc (T.SSW40)	1.0	EXT	0.0	0.66	4.3	0.24	AIR-CHANGE	0.10	694.2	9718.8
2026South Perim Spc (T.S41)	1.0	EXT	-90.0	0.66	2.5	0.24	AIR-CHANGE	0.17	398.6	5580.1
2026Plnm (T.42)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	11098.6	19977.6

Spaces on floor: 27MCGround Flr

27MCCore Spc (G.C1)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	180.0	3240.0
27MCCore Spc (G.C2)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	183.6	3304.8
27MCCore Spc (G.C3)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	233.3	4199.9
27MCCore Spc (G.C4)	1.0	INT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.00	174.1	3134.1
27MCCore Spc (G.C5)	1.0	INT	0.0	0.88	2.6	0.25	AIR-CHANGE	0.00	653.1	11756.0
27MCEast Perim Spc (G.E6)	1.0	EXT	180.0	0.88	3.9	0.25	AIR-CHANGE	0.20	986.2	17752.1
27MCWNW Perim Spc (G.WNW7)	1.0	EXT	90.0	0.88	5.0	0.25	AIR-CHANGE	0.25	1244.8	22407.3
27MCNNE Perim Spc (G.NNE8)	1.0	EXT	0.0	0.88	24.8	0.25	AIR-CHANGE	0.10	3970.0	71460.2
27MCWNW Perim Spc (G.WNW9)	1.0	EXT	90.0	0.88	0.0	0.25	AIR-CHANGE	0.10	1060.8	19094.6

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27MCESE Perim Spc (G.ESE10)	1.0	EXT	-90.0	0.88	3.4	0.25	AIR-CHANGE	0.12	853.4	15360.7
27MCSW Perim Spc (G.SW11)	1.0	EXT	0.0	0.88	1.9	0.25	AIR-CHANGE	0.30	466.4	8395.9
27MCSSW Perim Spc (G.SSW12)	1.0	EXT	0.0	0.88	2.8	0.25	AIR-CHANGE	0.19	694.2	12495.6
27MCSouth Perim Spc (G.S13)	1.0	EXT	-90.0	0.88	1.6	0.25	AIR-CHANGE	0.31	398.6	7174.4
ERU-27-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-27-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 28Ground Flr

28Core Spc (G.C1)	1.0	INT	0.0	0.00	0.2	0.24	AIR-CHANGE	0.00	183.6	2570.4
28Core Spc (G.C2)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
28Core Spc (G.C3)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
28Core Spc (G.C4)	1.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.00	653.1	9143.5
28NNW Perim Spc (G.NNW5)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1434.0	20075.9
28NNE Perim Spc (G.NNE6)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.04	1437.8	20129.9
28East Perim Spc (G.E7)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.10	986.2	13807.2
28ESE Perim Spc (G.ESE8)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
28South Perim Spc (G.S9)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.16	398.6	5580.1
28SSW Perim Spc (G.SSW10)	1.0	EXT	0.0	0.66	0.0	0.24	AIR-CHANGE	0.10	581.1	8135.4
28SW Perim Spc (G.SW11)	1.0	EXT	0.0	0.66	0.0	0.24	AIR-CHANGE	0.15	579.5	8113.6
28WNW Perim Spc (G.WNW12)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.04	1240.8	17371.3
28Plnm (G.13)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 2936Mid Flrs

2936Core Spc (M.C14)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1799.3
2936Core Spc (M.C15)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2286.6
2936Core Spc (M.C16)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1706.3
2936Core Spc (M.C17)	8.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6400.5
2936NNW Perim Spc (M.NNW18)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.12	1434.0	14053.1
2936NNE Perim Spc (M.NNE19)	8.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.06	1437.8	14090.9
2936East Perim Spc (M.E20)	8.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.15	986.2	9665.1
2936ESE Perim Spc (M.ESE21)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	8363.0
2936South Perim Spc (M.S22)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	398.6	3906.1
2936SSW Perim Spc (M.SSW23)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	581.1	5694.8
2936SW Perim Spc (M.SW24)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.21	579.5	5679.5
2936WNW Perim Spc (M.WNW25)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1240.8	12159.9
2936Plnm (M.26)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 3744Mid Flrs

3744Core Spc (M.C14)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1799.3
3744Core Spc (M.C15)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	233.3	2286.6
3744Core Spc (M.C16)	8.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	174.1	1706.3
3744Core Spc (M.C17)	8.0	INT	0.0	0.99	0.7	0.24	AIR-CHANGE	0.01	653.1	6400.5
3744NNW Perim Spc (M.NNW18)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.12	1434.0	14053.1
3744NNE Perim Spc (M.NNE19)	8.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.06	1437.8	14090.9
3744East Perim Spc (M.E20)	8.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.15	986.2	9665.1
3744ESE Perim Spc (M.ESE21)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	8363.0
3744South Perim Spc (M.S22)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	398.6	3906.1
3744SSW Perim Spc (M.SSW23)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	581.1	5694.8
3744SW Perim Spc (M.SW24)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.21	579.5	5679.5
3744WNW Perim Spc (M.WNW25)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1240.8	12159.9
3744Plnm (M.26)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 45Top Flr

45Core Spc (T.C27)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
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45Core Spc (T.C28)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	233.3	3266.6
45Core Spc (T.C29)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	174.1	2437.6
45Core Spc (T.C30)	1.0	INT	0.0	0.99	0.7	0.00	AIR-CHANGE	0.00	653.1	9143.5
45NNW Perim Spc (T.NNW31)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1434.0	20075.9
45NNE Perim Spc (T.NNE32)	1.0	EXT	90.0	0.66	2.0	0.24	AIR-CHANGE	0.04	1437.8	20129.9
45East Perim Spc (T.E33)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.10	986.2	13807.2
45ESE Perim Spc (T.ESE34)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	853.4	11947.2
45South Perim Spc (T.S35)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	398.6	5580.1
45SSW Perim Spc (T.SSW36)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.10	581.1	8135.4
45SW Perim Spc (T.SW37)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.15	579.5	8113.6
45WNW Perim Spc (T.WNW38)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.04	1240.8	17371.3
45Plnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2

Spaces on floor: 46MCTop Flr

46MCCore Spc (T.C27)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	183.6	3304.8
46MCCore Spc (T.C28)	1.0	INT	0.0	0.00	0.9	0.00	AIR-CHANGE	0.00	233.3	4199.9
46MCCore Spc (T.C29)	1.0	INT	0.0	0.00	0.7	0.00	AIR-CHANGE	0.00	174.1	3134.1
46MCCore Spc (T.C30)	1.0	INT	0.0	0.88	2.6	0.25	AIR-CHANGE	0.00	653.1	11756.0
46MCNNW Perim Spc (T.NNW31)	1.0	EXT	90.0	0.88	5.7	0.25	AIR-CHANGE	0.07	1434.0	25811.8
46MCNNE Perim Spc (T.NNE32)	1.0	EXT	90.0	0.88	5.8	0.25	AIR-CHANGE	0.03	1437.8	25881.3
46MCEast Perim Spc (T.E33)	1.0	EXT	180.0	0.88	3.9	0.25	AIR-CHANGE	0.08	986.2	17752.1
46MCESE Perim Spc (T.ESE34)	1.0	EXT	-90.0	0.88	3.4	0.25	AIR-CHANGE	0.05	853.4	15360.7
46MCSouth Perim Spc (T.S35)	1.0	EXT	-90.0	0.88	1.6	0.25	AIR-CHANGE	0.13	398.6	7174.4
46MCSSW Perim Spc (T.SSW36)	1.0	EXT	0.0	0.88	2.3	0.25	AIR-CHANGE	0.08	581.1	10459.8
46MCSW Perim Spc (T.SW37)	1.0	EXT	0.0	0.88	2.3	0.25	AIR-CHANGE	0.11	579.5	10431.7
46MCWNW Perim Spc (T.WNW38)	1.0	EXT	90.0	0.88	5.0	0.25	AIR-CHANGE	0.03	1240.8	22334.6
46MCPlnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.03	8755.6	17511.2
ERU-46-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-46-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 47Ground Flr

47NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
47West Perim Spc (G.W2)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
47SW Perim Spc (G.SW3)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
47SSW Perim Spc (G.SSW4)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
47SSE Perim Spc (G.SSE5)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
47ESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
47ENE Perim Spc (G.ENE7)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
47NE Perim Spc (G.NE8)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5
47Core Spc (G.C9)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
47Core Spc (G.C10)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
47Core Spc (G.C11)	1.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
47Core Spc (G.C12)	1.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
47Plnm (G.13)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 4856Mid Flrs

4856NNW Perim Spc (M.NNW14)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
4856West Perim Spc (M.W15)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
4856SW Perim Spc (M.SW16)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
4856SSW Perim Spc (M.SSW17)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
4856SSE Perim Spc (M.SSE18)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
4856ESE Perim Spc (M.ESE19)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
4856ENE Perim Spc (M.ENE20)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
4856NE Perim Spc (M.NE21)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5

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4856Core Spc (M.C22)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
4856Core Spc (M.C23)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
4856Core Spc (M.C24)	9.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
4856Core Spc (M.C25)	9.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
4856Plnm (M.26)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 5765Mid Flrs

5765NNW Perim Spc (M.NNW14)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	1163.6	12567.0
5765West Perim Spc (M.W15)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1426.6	15406.8
5765SW Perim Spc (M.SW16)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.23	419.4	4529.9
5765SSW Perim Spc (M.SSW17)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.11	741.3	8005.8
5765SSE Perim Spc (M.SSE18)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.20	508.4	5491.2
5765ESE Perim Spc (M.ESE19)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	853.4	9216.4
5765ENE Perim Spc (M.ENE20)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	643.5	6949.8
5765NE Perim Spc (M.NE21)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.09	1210.8	13076.5
5765Core Spc (M.C22)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	183.6	1982.9
5765Core Spc (M.C23)	9.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.01	232.7	2513.0
5765Core Spc (M.C24)	9.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.01	259.0	2797.1
5765Core Spc (M.C25)	9.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.01	568.9	6143.8
5765Plnm (M.26)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 66Top Flr

66NNW Perim Spc (T.NNW27)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.11	1163.6	16290.5
66West Perim Spc (T.W28)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1426.6	19971.8
66SW Perim Spc (T.SW29)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	419.4	5872.1
66SSW Perim Spc (T.SSW30)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.09	741.3	10377.8
66SSE Perim Spc (T.SSE31)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	508.4	7118.2
66ESE Perim Spc (T.ESE32)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.07	853.4	11947.2
66ENE Perim Spc (T.ENE33)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.14	643.5	9009.0
66NE Perim Spc (T.NE34)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.07	1210.8	16951.1
66Core Spc (T.C35)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
66Core Spc (T.C36)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	232.7	3257.6
66Core Spc (T.C37)	1.0	INT	0.0	0.00	0.3	0.00	AIR-CHANGE	0.00	259.0	3625.9
66Core Spc (T.C38)	1.0	INT	0.0	0.99	0.6	0.24	AIR-CHANGE	0.00	568.9	7964.2
66Plnm (T.39)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.10	8211.1	16422.3

Spaces on floor: 67MCGround Flr

67MCNNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.88	4.7	0.25	AIR-CHANGE	0.16	1163.6	32581.1
67MCWest Perim Spc (G.W2)	1.0	EXT	0.0	0.88	5.7	0.25	AIR-CHANGE	0.09	1426.6	39943.7
67MCSSW Perim Spc (G.SW3)	1.0	EXT	90.0	0.88	1.7	0.25	AIR-CHANGE	0.27	419.4	11744.2
67MCSSW Perim Spc (G.SSW4)	1.0	EXT	0.0	0.88	3.0	0.25	AIR-CHANGE	0.13	741.3	20755.7
67MCSSE Perim Spc (G.SSE5)	1.0	EXT	-90.0	0.88	2.0	0.25	AIR-CHANGE	0.23	508.4	14236.5
67MCESE Perim Spc (G.ESE6)	1.0	EXT	-90.0	0.88	3.4	0.25	AIR-CHANGE	0.10	853.4	23894.4
67MCENE Perim Spc (G.ENE7)	1.0	EXT	90.0	0.88	2.6	0.25	AIR-CHANGE	0.21	643.5	18018.0
67MCNE Perim Spc (G.NE8)	1.0	EXT	-90.0	0.88	4.8	0.25	AIR-CHANGE	0.10	1210.8	33902.1
67MCCore Spc (G.C9)	1.0	INT	0.0	0.88	0.7	0.25	AIR-CHANGE	0.00	183.6	5140.8
67MCCore Spc (G.C10)	1.0	INT	0.0	0.88	0.9	0.25	AIR-CHANGE	0.00	232.7	6515.3
67MCCore Spc (G.C11)	1.0	INT	0.0	0.88	2.3	0.25	AIR-CHANGE	0.00	568.9	15928.4
67MCCore Spc (G.C12)	1.0	INT	0.0	0.88	1.0	0.25	AIR-CHANGE	0.00	259.0	7251.7
ERU-67-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0
ERU-67-2 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 68Ground Flr (rev: 69)

68NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	987.4	13823.0
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68NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.11	1277.7	17887.4
68ESE Perim Spc (G.ESE3)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.60	230.2	3223.4
68West Perim Spc (G.W4)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1351.7	18923.5
68SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
68South Perim Spc (G.S6)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	741.3	10377.8
68Core Spc (G.C7)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	232.7	3257.6
68Core Spc (G.C8)	1.0	INT	0.0	0.00	0.2	0.00	AIR-CHANGE	0.00	183.6	2570.4
68ESE Perim Spc (G.ESE9)	1.0	EXT	-90.0	0.00	1.7	0.00	AIR-CHANGE	0.24	259.0	3625.9
68Core Spc (G.C10)	1.0	EXT	-90.0	0.99	0.6	0.00	AIR-CHANGE	0.00	568.9	7964.2
68Plnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.14	6222.8	12445.5

Spaces on floor: 68DBGround Flr (rev: 69db)

68DBWNW Perim Spc (G.WNW1)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	1800.6	54018.9
68DBPlnm (G.2)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.24	1800.6	3601.3

Spaces on floor: 69Ground Flr (rev: 70)

69NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	987.4	13823.0
69NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.11	1277.7	17887.4
69ESE Perim Spc (G.ESE3)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.60	230.2	3223.4
69West Perim Spc (G.W4)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1351.7	18923.5
69SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
69South Perim Spc (G.S6)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	741.3	10377.8
69Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	232.7	3257.6
69Core Spc (G.C8)	1.0	INT	0.0	0.00	1.0	0.00	AIR-CHANGE	0.00	183.6	2570.4
69ESE Perim Spc (G.ESE9)	1.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
69Core Spc (G.C10)	1.0	EXT	-90.0	0.99	3.2	0.24	AIR-CHANGE	0.00	568.9	7964.2
69Plnm (G.11)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.14	6222.8	12445.5

Spaces on floor: 70Ground Flr (rev: 68)

70NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
70West Perim Spc (G.W2)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
70SW Perim Spc (G.SW3)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
70South Perim Spc (G.S4)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
70NE Perim Spc (G.NE5)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
70ENE Perim Spc (G.ENE6)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
70SE Perim Spc (G.SE7)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
70Core Spc (G.C8)	1.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
70Core Spc (G.C9)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
70Core Spc (G.C10)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1
70Core Spc (G.C11)	1.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
70Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 7179Mid Flrs

7179NNW Perim Spc (M.NNW13)	9.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
7179West Perim Spc (M.W14)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
7179SW Perim Spc (M.SW15)	9.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
7179South Perim Spc (M.S16)	9.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
7179NE Perim Spc (M.NE17)	9.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
7179ENE Perim Spc (M.ENE18)	9.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
7179SE Perim Spc (M.SE19)	9.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
7179Core Spc (M.C20)	9.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
7179Core Spc (M.C21)	9.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
7179Core Spc (M.C22)	9.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

7179Core Spc (M.C23)	9.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
7179Plnm (M.24)	9.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 8087Mid Flrs

8087NNW Perim Spc (M.NNW13)	8.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.16	1017.3	10986.6
8087West Perim Spc (M.W14)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1321.8	14275.0
8087SW Perim Spc (M.SW15)	8.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	4216.1
8087South Perim Spc (M.S16)	8.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	922.4	9962.2
8087NE Perim Spc (M.NE17)	8.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	5531.6
8087ENE Perim Spc (M.ENE18)	8.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1385.7	14965.0
8087SE Perim Spc (M.SE19)	8.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.13	860.7	9296.1
8087Core Spc (M.C20)	8.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.01	184.6	1993.9
8087Core Spc (M.C21)	8.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	233.3	2519.9
8087Core Spc (M.C22)	8.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.01	259.0	2797.1
8087Core Spc (M.C23)	8.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.01	569.1	6146.0
8087Plnm (M.24)	8.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 88Top Flr

88NNW Perim Spc (T.NNW25)	1.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.12	1017.3	14241.9
88West Perim Spc (T.W26)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1321.8	18504.6
88SW Perim Spc (T.SW27)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.19	390.4	5465.3
88South Perim Spc (T.S28)	1.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.13	922.4	12913.9
88NE Perim Spc (T.NE29)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.18	512.2	7170.6
88ENE Perim Spc (T.ENE30)	1.0	EXT	180.0	0.66	1.0	0.24	AIR-CHANGE	0.06	1385.7	19399.1
88SE Perim Spc (T.SE31)	1.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.10	860.7	12050.5
88Core Spc (T.C32)	1.0	INT	0.0	0.00	0.4	0.00	AIR-CHANGE	0.00	184.6	2584.7
88Core Spc (T.C33)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.00	233.3	3266.6
88Core Spc (T.C34)	1.0	INT	0.0	0.00	0.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
88Core Spc (T.C35)	1.0	INT	0.0	0.99	1.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
88Plnm (T.36)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 89Ground Flr (rev: 89 + 91)

89NNW Perim Spc (G.NNW1)	2.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
89NE Perim Spc (G.NE2)	2.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
89ESE Perim Spc (G.ESE3)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	717.1	10038.9
89West Perim Spc (G.W4)	2.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1397.4	19564.2
89SW Perim Spc (G.SW5)	2.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
89South Perim Spc (G.S6)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	1002.5	14035.1
89Core Spc (G.C7)	2.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
89Core Spc (G.C8)	2.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
89ESE Perim Spc (G.ESE9)	2.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
89Core Spc (G.C10)	2.0	EXT	-90.0	0.99	3.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
89Plnm (G.11)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	6207.2	12414.4

Spaces on floor: 89DBGround Flr (rev: 89 + 91)

89DBWNW Perim Spc (G.WNW1)	2.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.25	1449.3	45651.4
89DBPlnm (G.2)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.25	1449.3	2898.5

Spaces on floor: 90Ground Flr (rev: 90 + 92)

90NNW Perim Spc (G.NNW1)	2.0	EXT	90.0	0.66	1.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
90NE Perim Spc (G.NE2)	2.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
90ESE Perim Spc (G.ESE3)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.06	717.1	10038.9

REPORT- LV-B Summary of Spaces

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

90West Perim Spc (G.W4)	2.0	EXT	0.0	0.66	1.0	0.24	AIR-CHANGE	0.08	1397.4	19564.2
90SW Perim Spc (G.SW5)	2.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.24	390.4	5465.3
90South Perim Spc (G.S6)	2.0	EXT	-90.0	0.66	1.0	0.24	AIR-CHANGE	0.18	1002.5	14035.1
90Core Spc (G.C7)	2.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
90Core Spc (G.C8)	2.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
90ESE Perim Spc (G.ESE9)	2.0	EXT	-90.0	0.00	1.5	0.00	AIR-CHANGE	0.24	259.0	3625.9
90Core Spc (G.C10)	2.0	EXT	-90.0	0.99	3.2	0.24	AIR-CHANGE	0.00	569.1	7967.1
90Plnm (G.11)	2.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.13	6207.2	12414.4

Spaces on floor: 91Ground Flr (rev: 93)

91NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
91NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
91Core Spc (G.C3)	1.0	INT	180.0	0.66	0.0	0.24	AIR-CHANGE	0.00	717.1	10038.9
91West Perim Spc (G.W4)	1.0	EXT	0.0	0.88	5.6	0.25	AIR-CHANGE	0.08	1397.4	19564.2
91SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.88	1.6	0.25	AIR-CHANGE	0.24	390.4	5465.3
91South Perim Spc (G.S6)	1.0	EXT	-90.0	0.88	4.0	0.25	AIR-CHANGE	0.16	1002.5	14035.1
91Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
91Core Spc (G.C8)	1.0	INT	0.0	0.00	1.1	0.00	AIR-CHANGE	0.00	184.6	2584.7
91Core Spc (G.C9)	1.0	INT	0.0	0.00	1.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
91Core Spc (G.C10)	1.0	INT	0.0	0.99	3.2	0.25	AIR-CHANGE	0.00	569.1	7967.1
91ESE Perim Spc (G.ESE11)	1.0	EXT	90.0	0.88	5.8	0.25	AIR-CHANGE	0.15	1449.3	20289.5
91Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9
ERU-91-1 Spc	1.0	INT	0.0	0.00	0.0	0.00	NO-INFILT.	0.00	10000.0	100000.0

Spaces on floor: 92Ground Flr (rev: 94)

92NNW Perim Spc (G.NNW1)	1.0	EXT	90.0	0.66	0.0	0.24	AIR-CHANGE	0.17	941.6	13182.4
92NE Perim Spc (G.NE2)	1.0	EXT	-90.0	0.66	0.0	0.24	AIR-CHANGE	0.23	512.2	7170.6
92Core Spc (G.C3)	1.0	INT	180.0	0.66	0.0	0.24	AIR-CHANGE	0.00	717.1	10038.9
92West Perim Spc (G.W4)	1.0	EXT	0.0	0.88	0.0	0.25	AIR-CHANGE	0.08	1397.4	19564.2
92SW Perim Spc (G.SW5)	1.0	EXT	90.0	0.88	1.6	0.25	AIR-CHANGE	0.24	390.4	5465.3
92South Perim Spc (G.S6)	1.0	EXT	-90.0	0.88	4.0	0.25	AIR-CHANGE	0.16	1002.5	14035.1
92Core Spc (G.C7)	1.0	INT	0.0	0.00	1.3	0.00	AIR-CHANGE	0.00	233.3	3266.6
92Core Spc (G.C8)	1.0	INT	0.0	0.00	1.1	0.25	AIR-CHANGE	0.00	184.6	2584.7
92Core Spc (G.C9)	1.0	INT	0.0	0.00	1.5	0.00	AIR-CHANGE	0.00	259.0	3625.9
92Core Spc (G.C10)	1.0	INT	0.0	1.00	3.2	0.25	AIR-CHANGE	0.00	569.1	7967.1
92ESE Perim Spc (G.ESE11)	1.0	EXT	90.0	0.88	5.8	0.25	AIR-CHANGE	0.15	1449.3	20289.5
92Plnm (G.12)	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.11	7656.4	15312.9

Spaces on floor: 93MER

93MERSpace	2.0	EXT	0.0	0.88	6.9	0.25	NO-INFILT.	0.00	6889.0	124002.0
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BUILDING TOTALS

7870.0

2096481.0

20073558.0

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

NUMBER OF EXTERIOR SURFACES 857

(U-VALUE INCLUDES OUTSIDE FILM; WINDOW INCLUDES FRAME AND CURB, IF DEFINED)

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
68DBNNW Wall (G.WNW1.E5)	0.000	0.00	0.268	366.00	0.268	366.00	NORTH
in space: 68DBNNW Perim Spc (G.WNW1)							
68DBNNW Wall (G.2.E11)	0.000	0.00	0.268	24.40	0.268	24.40	NORTH
in space: 68DBPlnm (G.2)							
Exterior Wall 885	0.000	0.00	0.268	2988.00	0.268	2988.00	NORTH
in space: 93MERSpace							
GNNE Wall (G.NNE3.E5)	0.000	0.00	0.307	1290.08	0.307	1290.08	NORTH
in space: GNNE Perim Spc (G.NNE3)							
6MCNNE Wall (G.N2.E5)	0.000	0.00	0.307	3767.56	0.307	3767.56	NORTH
in space: 6MCNorth Perim Spc (G.N2)							
GNNE Wall (G.18.E29)	0.000	0.00	0.268	42.10	0.268	42.10	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E31)	0.000	0.00	0.268	137.60	0.268	137.60	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E32)	0.000	0.00	0.268	162.40	0.268	162.40	NORTH
in space: GPlnm (G.18)							
GNNE Wall (G.18.E34)	0.000	0.00	0.268	172.00	0.268	172.00	NORTH
in space: GPlnm (G.18)							
1MNNE Wall (G.NW1.E2)	0.572	108.00	0.268	12.00	0.542	120.00	NORTH
in space: 1MNW Perim Spc (G.NW1)							
1MNNE Wall (G.N2.E3)	0.000	0.00	0.307	837.20	0.307	837.20	NORTH
in space: 1MNorth Perim Spc (G.N2)							
1MNNE Wall (G.NNE6.E11)	0.572	1114.92	0.268	123.88	0.542	1238.80	NORTH
in space: 1MNNE Perim Spc (G.NNE6)							
25NNE Wall (G.NW1.E2)	0.572	249.38	0.268	13.13	0.557	262.50	NORTH
in space: 25NW Perim Spc (G.NW1)							
25NNE Wall (G.N2.E3)	0.000	0.00	0.307	1831.38	0.307	1831.38	NORTH
in space: 25North Perim Spc (G.N2)							
25NNE Wall (G.NNE11.E14)	0.572	1807.98	0.268	95.15	0.557	1903.13	NORTH
in space: 25NNE Perim Spc (G.NNE11)							
Exterior Wall 888	0.572	841.00	0.268	59.00	0.552	900.00	NORTH
in space: 25NNE Perim Spc (G.NNE11)							
25NNE Wall (G.NNE12.E15)	0.572	766.41	0.268	40.34	0.557	806.75	NORTH
in space: 25NNE Perim Spc (G.NNE12)							
25NNE Wall (M.NW17.E17)	0.572	498.75	0.268	26.25	0.557	525.00	NORTH
in space: 25NW Perim Spc (M.NW17)							
25NNE Wall (M.N18.E18)	0.000	0.00	0.307	3662.75	0.307	3662.75	NORTH
in space: 25North Perim Spc (M.N18)							
25NNE Wall (M.NNE27.E29)	0.572	3615.96	0.268	190.29	0.557	3806.25	NORTH
in space: 25NNE Perim Spc (M.NNE27)							
Exterior Wall 889	0.572	1682.00	0.268	118.00	0.552	1800.00	NORTH
in space: 25NNE Perim Spc (M.NNE27)							
25NNE Wall (M.NNE28.E30)	0.572	1532.83	0.268	80.67	0.557	1613.50	NORTH
in space: 25NNE Perim Spc (M.NNE28)							
25NNE Wall (T.NW33.E32)	0.572	249.38	0.268	13.13	0.557	262.50	NORTH
in space: 25NW Perim Spc (T.NW33)							
25NNE Wall (T.N34.E33)	0.000	0.00	0.307	1831.38	0.307	1831.38	NORTH
in space: 25North Perim Spc (T.N34)							

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

(CONTINUED)

25NNE Wall (T.NNE43.E44)	0.572	1807.98	0.268	95.15	0.557	1903.13	NORTH
in space: 25NNE Perim Spc (T.NNE43)							
Exterior Wall 890	0.572	841.00	0.268	59.00	0.552	900.00	NORTH
in space: 25NNE Perim Spc (T.NNE43)							
25NNE Wall (T.NNE44.E45)	0.572	766.41	0.268	40.34	0.557	806.75	NORTH
in space: 25NNE Perim Spc (T.NNE44)							
GNNE Wall (G.NW1.E2)	0.572	202.30	0.268	7.70	0.561	210.00	NORTH
in space: GNW Perim Spc (G.NW1)							
6MCNNE Wall (G.NW3.E7)	0.000	0.00	0.268	540.00	0.268	540.00	NORTH
in space: 6MCNW Perim Spc (G.NW3)							
6MCNNE Wall (G.NNE4.E8)	0.000	0.00	0.268	5574.60	0.268	5574.60	NORTH
in space: 6MCNNE Perim Spc (G.NNE4)							
6MCNNE Wall (G.11.E14)	0.000	0.00	0.268	339.70	0.268	339.70	NORTH
in space: 6MCPlnm (G.11)							
6MCNNE Wall (G.11.E16)	0.000	0.00	0.268	209.30	0.268	209.30	NORTH
in space: 6MCPlnm (G.11)							
Exterior Wall 895	0.000	0.00	0.268	1080.00	0.268	1080.00	NORTH
in space: 6MC Top Spc							
8ANNE Wall (G.NW1.E2)	0.000	0.00	0.268	387.60	0.268	387.60	NORTH
in space: 8ANW Perim Spc (G.NW1)							
8ANNE Wall (G.WSW2.E6)	0.373	262.50	0.268	1543.50	0.283	1806.00	NORTH
in space: 8AWSW Perim Spc (G.WSW2)							
8ANNE Wall (G.NNE3.E8)	0.000	0.00	0.268	204.00	0.268	204.00	NORTH
in space: 8ANNE Perim Spc (G.NNE3)							
8ANNE Wall (G.NNE5.E9)	0.000	0.00	0.268	429.60	0.268	429.60	NORTH
in space: 8ANNE Perim Spc (G.NNE5)							
8ANNE Wall (G.NNE7.E10)	0.000	0.00	0.268	252.00	0.268	252.00	NORTH
in space: 8ANNE Perim Spc (G.NNE7)							
8ANNE Wall (G.ESE12.E17)	0.000	0.00	0.268	109.20	0.268	109.20	NORTH
in space: 8AESE Perim Spc (G.ESE12)							
8MCNNE Wall (G.NNE1.E3)	0.000	0.00	0.268	597.00	0.268	597.00	NORTH
in space: 8MANNE Perim Spc (G.NNE1)							
8MCNNE Wall (G.SSW2.E6)	0.000	0.00	0.268	846.00	0.268	846.00	NORTH
in space: 8MASSW Perim Spc (G.SSW2)							
10ANNE Wall (G.N8.E12)	0.373	936.88	0.268	401.52	0.342	1338.40	NORTH
in space: 10ANorth Perim Spc (G.N8)							
10ANNE Wall (G.ENE9.E13)	0.373	365.05	0.268	156.45	0.342	521.50	NORTH
in space: 10AENE Perim Spc (G.ENE9)							
10ANNE Wall (G.10.E20)	0.000	0.00	0.268	5535.86	0.268	5535.86	NORTH
in space: 10APlnm (G.10)							
10MNNE Wall (G.N8.E12)	0.000	0.00	0.268	5576.35	0.268	5576.35	NORTH
in space: 10MNNorth Perim Spc (G.N8)							
10MNNE Wall (G.ENE9.E13)	0.000	0.00	0.268	2172.79	0.268	2172.79	NORTH
in space: 10MENE Perim Spc (G.ENE9)							
11MCNNE Wall (G.NNE1.E4)	0.000	0.00	0.268	3807.41	0.268	3807.41	NORTH
in space: 11MCNNE Perim Spc (G.NNE1)							
11DBNNE Wall (G.WNW1.E4)	0.000	0.00	0.268	2126.45	0.268	2126.45	NORTH
in space: 11DBWNW Perim Spc (G.WNW1)							
1519NNE Wall (G.WNW6.E3)	0.373	856.24	0.268	111.26	0.361	967.50	NORTH
in space: 1519WNW Perim Spc (G.WNW6)							
1519NNE Wall (G.NNE7.E4)	0.373	2730.00	0.268	355.50	0.361	3085.50	NORTH
in space: 1519NNE Perim Spc (G.NNE7)							
1519NNE Wall (G.E8.E6)	0.408	750.00	0.268	16.50	0.405	766.50	NORTH
in space: 1519East Perim Spc (G.E8)							
1519NNE Wall (G.14.E23)	0.000	0.00	0.268	867.51	0.268	867.51	NORTH
in space: 1519Plnm (G.14)							
1519NNE Wall (M.WNW20.E26)	0.373	1427.06	0.268	185.44	0.361	1612.50	NORTH
in space: 1519WNW Perim Spc (M.WNW20)							

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1519NNE Wall (M.NNE21.E27)	0.373	4550.00	0.268	592.50	0.361	5142.50	NORTH
in space: 1519NNE Perim Spc (M.NNE21)							
1519NNE Wall (M.E22.E29)	0.408	1250.00	0.268	27.50	0.405	1277.50	NORTH
in space: 1519East Perim Spc (M.E22)							
1519NNE Wall (M.28.E46)	0.000	0.00	0.268	1445.85	0.268	1445.85	NORTH
in space: 1519Plnm (M.28)							
1519NNE Wall (T.WNW34.E49)	0.373	285.41	0.268	166.09	0.334	451.50	NORTH
in space: 1519WNW Perim Spc (T.WNW34)							
1519NNE Wall (T.NNE35.E50)	0.373	910.00	0.268	529.90	0.334	1439.90	NORTH
in space: 1519NNE Perim Spc (T.NNE35)							
1519NNE Wall (T.E36.E52)	0.408	250.00	0.268	107.70	0.366	357.70	NORTH
in space: 1519East Perim Spc (T.E36)							
1519NNE Wall (T.42.E69)	0.000	0.00	0.268	289.17	0.268	289.17	NORTH
in space: 1519Plnm (T.42)							
2026NNE Wall (G.E6.E1)	0.408	250.00	0.268	107.70	0.366	357.70	NORTH
in space: 2026East Perim Spc (G.E6)							
2026NNE Wall (G.WNW7.E5)	0.373	285.41	0.268	166.09	0.334	451.50	NORTH
in space: 2026WNW Perim Spc (G.WNW7)							
2026NNE Wall (G.NNE8.E6)	0.373	910.00	0.268	529.90	0.334	1439.90	NORTH
in space: 2026NNE Perim Spc (G.NNE8)							
2026NNE Wall (G.14.E20)	0.000	0.00	0.268	289.17	0.268	289.17	NORTH
in space: 2026Plnm (G.14)							
2026NNE Wall (M.E20.E21)	0.408	1250.00	0.268	27.50	0.405	1277.50	NORTH
in space: 2026East Perim Spc (M.E20)							
2026NNE Wall (M.WNW21.E25)	0.373	1427.06	0.268	185.44	0.361	1612.50	NORTH
in space: 2026WNW Perim Spc (M.WNW21)							
2026NNE Wall (M.NNE22.E26)	0.373	4550.00	0.268	592.50	0.361	5142.50	NORTH
in space: 2026NNE Perim Spc (M.NNE22)							
2026NNE Wall (M.28.E40)	0.000	0.00	0.268	1445.85	0.268	1445.85	NORTH
in space: 2026Plnm (M.28)							
2026NNE Wall (T.E34.E41)	0.408	250.00	0.268	107.70	0.366	357.70	NORTH
in space: 2026East Perim Spc (T.E34)							
2026NNE Wall (T.WNW35.E45)	0.373	285.41	0.268	166.09	0.334	451.50	NORTH
in space: 2026WNW Perim Spc (T.WNW35)							
2026NNE Wall (T.NNE36.E46)	0.373	910.00	0.268	529.90	0.334	1439.90	NORTH
in space: 2026NNE Perim Spc (T.NNE36)							
2026NNE Wall (T.42.E60)	0.000	0.00	0.268	289.17	0.268	289.17	NORTH
in space: 2026Plnm (T.42)							
27MCNNE Wall (G.E6.E1)	0.000	0.00	0.268	459.90	0.268	459.90	NORTH
in space: 27MCEast Perim Spc (G.E6)							
27MCNNE Wall (G.WNW7.E5)	0.000	0.00	0.268	580.50	0.268	580.50	NORTH
in space: 27MCWNW Perim Spc (G.WNW7)							
27MCNNE Wall (G.NNE8.E6)	0.000	0.00	0.268	1851.30	0.268	1851.30	NORTH
in space: 27MCNNE Perim Spc (G.NNE8)							
28NNE Wall (G.NNW5.E2)	0.373	328.78	0.268	191.32	0.334	520.10	NORTH
in space: 28NNW Perim Spc (G.NNW5)							
28NNE Wall (G.NNE6.E3)	0.373	329.66	0.268	191.84	0.334	521.50	NORTH
in space: 28NNE Perim Spc (G.NNE6)							
28NNE Wall (G.E7.E4)	0.408	245.00	0.268	112.70	0.364	357.70	NORTH
in space: 28East Perim Spc (G.E7)							
28NNE Wall (G.13.E16)	0.000	0.00	0.268	199.90	0.268	199.90	NORTH
in space: 28Plnm (G.13)							
2936NNE Wall (M.NNW18.E18)	0.373	2630.22	0.268	282.34	0.363	2912.56	NORTH
in space: 2936NNW Perim Spc (M.NNW18)							
2936NNE Wall (M.NNE19.E19)	0.373	2637.30	0.268	283.10	0.363	2920.40	NORTH
in space: 2936NNE Perim Spc (M.NNE19)							
2936NNE Wall (M.E20.E20)	0.408	1960.00	0.268	43.12	0.405	2003.12	NORTH
in space: 2936East Perim Spc (M.E20)							

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2936NNE Wall (M.26.E32)	0.000	0.00	0.268	1599.20	0.268	1599.20	NORTH
in space: 2936Plnm (M.26)							
3744NNE Wall (M.NNW18.E18)	0.373	2630.22	0.268	282.34	0.363	2912.56	NORTH
in space: 3744NNW Perim Spc (M.NNW18)							
3744NNE Wall (M.NNE19.E19)	0.373	2637.30	0.268	283.10	0.363	2920.40	NORTH
in space: 3744NNE Perim Spc (M.NNE19)							
3744NNE Wall (M.E20.E20)	0.408	1960.00	0.268	43.12	0.405	2003.12	NORTH
in space: 3744East Perim Spc (M.E20)							
3744NNE Wall (M.26.E32)	0.000	0.00	0.268	1599.20	0.268	1599.20	NORTH
in space: 3744Plnm (M.26)							
45NNE Wall (T.NNW31.E34)	0.373	328.78	0.268	191.32	0.334	520.10	NORTH
in space: 45NNW Perim Spc (T.NNW31)							
45NNE Wall (T.NNE32.E35)	0.373	329.66	0.268	191.84	0.334	521.50	NORTH
in space: 45NNE Perim Spc (T.NNE32)							
45NNE Wall (T.E33.E36)	0.408	245.00	0.268	112.70	0.364	357.70	NORTH
in space: 45East Perim Spc (T.E33)							
45NNE Wall (T.39.E48)	0.000	0.00	0.268	199.90	0.268	199.90	NORTH
in space: 45Plnm (T.39)							
46MCNNE Wall (T.NNW31.E34)	0.000	0.00	0.268	668.70	0.268	668.70	NORTH
in space: 46MCNNW Perim Spc (T.NNW31)							
46MCNNE Wall (T.NNE32.E35)	0.000	0.00	0.268	670.50	0.268	670.50	NORTH
in space: 46MCNNE Perim Spc (T.NNE32)							
46MCNNE Wall (T.E33.E36)	0.000	0.00	0.268	459.90	0.268	459.90	NORTH
in space: 46MCEast Perim Spc (T.E33)							
46MCNNE Wall (T.39.E48)	0.000	0.00	0.268	199.90	0.268	199.90	NORTH
in space: 46MCPlnm (T.39)							
47NNE Wall (G.NNW1.E2)	0.373	259.20	0.268	32.40	0.361	291.60	NORTH
in space: 47NNW Perim Spc (G.NNW1)							
47NNE Wall (G.NNW1.E4)	0.373	97.44	0.268	12.18	0.361	109.62	NORTH
in space: 47NNW Perim Spc (G.NNW1)							
47NNE Wall (G.ENE7.E15)	0.406	270.00	0.268	27.00	0.393	297.00	NORTH
in space: 47ENE Perim Spc (G.ENE7)							
47NNE Wall (G.NE8.E17)	0.373	338.88	0.268	42.36	0.361	381.24	NORTH
in space: 47NE Perim Spc (G.NE8)							
47NNE Wall (G.13.E23)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 47Plnm (G.13)							
47NNE Wall (G.13.E25)	0.000	0.00	0.268	124.60	0.268	124.60	NORTH
in space: 47Plnm (G.13)							
47NNE Wall (G.13.E27)	0.000	0.00	0.268	20.30	0.268	20.30	NORTH
in space: 47Plnm (G.13)							
4856NNE Wall (M.NNW14.E29)	0.373	2332.80	0.268	291.60	0.361	2624.40	NORTH
in space: 4856NNW Perim Spc (M.NNW14)							
4856NNE Wall (M.NNW14.E31)	0.373	876.96	0.268	109.62	0.361	986.58	NORTH
in space: 4856NNW Perim Spc (M.NNW14)							
4856NNE Wall (M.ENE20.E41)	0.406	2429.99	0.268	243.01	0.393	2673.00	NORTH
in space: 4856ENE Perim Spc (M.ENE20)							
4856NNE Wall (M.NE21.E43)	0.373	3049.92	0.268	381.24	0.361	3431.16	NORTH
in space: 4856NE Perim Spc (M.NE21)							
4856NNE Wall (M.26.E49)	0.000	0.00	0.268	495.00	0.268	495.00	NORTH
in space: 4856Plnm (M.26)							
4856NNE Wall (M.26.E51)	0.000	0.00	0.268	1121.40	0.268	1121.40	NORTH
in space: 4856Plnm (M.26)							
4856NNE Wall (M.26.E53)	0.000	0.00	0.268	182.70	0.268	182.70	NORTH
in space: 4856Plnm (M.26)							
5765NNE Wall (M.NNW14.E29)	0.373	2332.80	0.268	291.60	0.361	2624.40	NORTH
in space: 5765NNW Perim Spc (M.NNW14)							
5765NNE Wall (M.NNW14.E31)	0.373	876.96	0.268	109.62	0.361	986.58	NORTH
in space: 5765NNW Perim Spc (M.NNW14)							

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5765NNE Wall (M.ENE20.E41)	0.406	2429.99	0.268	243.01	0.393	2673.00	NORTH
in space: 5765ENE Perim Spc (M.ENE20)							
5765NNE Wall (M.NE21.E43)	0.373	3049.92	0.268	381.24	0.361	3431.16	NORTH
in space: 5765NE Perim Spc (M.NE21)							
5765NNE Wall (M.26.E49)	0.000	0.00	0.268	495.00	0.268	495.00	NORTH
in space: 5765Plnm (M.26)							
5765NNE Wall (M.26.E51)	0.000	0.00	0.268	1121.40	0.268	1121.40	NORTH
in space: 5765Plnm (M.26)							
5765NNE Wall (M.26.E53)	0.000	0.00	0.268	182.70	0.268	182.70	NORTH
in space: 5765Plnm (M.26)							
66NNE Wall (T.NNW27.E55)	0.373	259.20	0.268	118.80	0.340	378.00	NORTH
in space: 66NNW Perim Spc (T.NNW27)							
66NNE Wall (T.NNW27.E57)	0.373	97.44	0.268	44.66	0.340	142.10	NORTH
in space: 66NNW Perim Spc (T.NNW27)							
66NNE Wall (T.ENE33.E67)	0.406	270.00	0.268	115.00	0.365	385.00	NORTH
in space: 66ENE Perim Spc (T.ENE33)							
66NNE Wall (T.NE34.E69)	0.373	338.88	0.268	155.32	0.340	494.20	NORTH
in space: 66NE Perim Spc (T.NE34)							
66NNE Wall (T.39.E75)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 66Plnm (T.39)							
66NNE Wall (T.39.E77)	0.000	0.00	0.268	124.60	0.268	124.60	NORTH
in space: 66Plnm (T.39)							
66NNE Wall (T.39.E79)	0.000	0.00	0.268	20.30	0.268	20.30	NORTH
in space: 66Plnm (T.39)							
67MCNNE Wall (G.NNW1.E2)	0.000	0.00	0.268	756.00	0.268	756.00	NORTH
in space: 67MCNNW Perim Spc (G.NNW1)							
67MCNNE Wall (G.NNW1.E4)	0.000	0.00	0.268	284.20	0.268	284.20	NORTH
in space: 67MCNNW Perim Spc (G.NNW1)							
67MCNNE Wall (G.ENE7.E14)	0.000	0.00	0.268	770.00	0.268	770.00	NORTH
in space: 67MCENE Perim Spc (G.ENE7)							
67MCNNE Wall (G.NE8.E16)	0.000	0.00	0.268	988.40	0.268	988.40	NORTH
in space: 67MCNE Perim Spc (G.NE8)							
68NNE Wall (G.NNW1.E2)	0.373	230.40	0.268	38.40	0.358	268.80	NORTH
in space: 68NNW Perim Spc (G.NNW1)							
68NNE Wall (G.NNW1.E4)	0.373	192.00	0.268	32.00	0.358	224.00	NORTH
in space: 68NNW Perim Spc (G.NNW1)							
68NNE Wall (G.NE2.E6)	0.373	447.00	0.268	74.50	0.358	521.50	NORTH
in space: 68NE Perim Spc (G.NE2)							
68NNE Wall (G.ESE3.E12)	0.401	350.00	0.268	35.00	0.389	385.00	NORTH
in space: 68ESE Perim Spc (G.ESE3)							
68NNE Wall (G.11.E30)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 68Plnm (G.11)							
68NNE Wall (G.11.E32)	0.000	0.00	0.268	112.90	0.268	112.90	NORTH
in space: 68Plnm (G.11)							
68NNE Wall (G.11.E34)	0.000	0.00	0.268	32.00	0.268	32.00	NORTH
in space: 68Plnm (G.11)							
68DBNNE Wall (G.WNW1.E4)	0.000	0.00	0.268	105.00	0.268	105.00	NORTH
in space: 68DBWNW Perim Spc (G.WNW1)							
GNNE Wall (G.E6.E10)	0.572	304.17	0.268	11.48	0.561	315.65	NORTH
in space: GEast Perim Spc (G.E6)							
68DBNNE Wall (G.WNW1.E6)	0.000	0.00	0.268	456.00	0.268	456.00	NORTH
in space: 68DBWNW Perim Spc (G.WNW1)							
68DBNNE Wall (G.2.E10)	0.000	0.00	0.268	7.00	0.268	7.00	NORTH
in space: 68DBPlnm (G.2)							
GNNE Wall (G.NNE7.E11)	0.572	715.28	0.268	27.22	0.561	742.50	NORTH
in space: GNNE Perim Spc (G.NNE7)							
68DBNNE Wall (G.2.E12)	0.000	0.00	0.268	30.40	0.268	30.40	NORTH
in space: 68DBPlnm (G.2)							

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69NNE Wall (G.NNW1.E2)	0.373	230.40	0.268	38.40	0.358	268.80	NORTH
in space: 69NNW Perim Spc (G.NNW1)							
69NNE Wall (G.NNW1.E4)	0.373	192.00	0.268	32.00	0.358	224.00	NORTH
in space: 69NNW Perim Spc (G.NNW1)							
69NNE Wall (G.NE2.E6)	0.373	447.00	0.268	74.50	0.358	521.50	NORTH
in space: 69NE Perim Spc (G.NE2)							
69NNE Wall (G.ESE3.E12)	0.401	350.00	0.268	35.00	0.389	385.00	NORTH
in space: 69ESE Perim Spc (G.ESE3)							
69NNE Wall (G.11.E30)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 69Plnm (G.11)							
69NNE Wall (G.11.E32)	0.000	0.00	0.268	112.90	0.268	112.90	NORTH
in space: 69Plnm (G.11)							
69NNE Wall (G.11.E34)	0.000	0.00	0.268	32.00	0.268	32.00	NORTH
in space: 69Plnm (G.11)							
70NNE Wall (G.NNW1.E2)	0.373	153.60	0.268	19.20	0.361	172.80	NORTH
in space: 70NNW Perim Spc (G.NNW1)							
70NNE Wall (G.NNW1.E4)	0.373	184.32	0.268	23.04	0.361	207.36	NORTH
in space: 70NNW Perim Spc (G.NNW1)							
70NNE Wall (G.NE5.E12)	0.373	357.60	0.268	44.70	0.361	402.30	NORTH
in space: 70NE Perim Spc (G.NE5)							
70NNE Wall (G.ENE6.E13)	0.406	270.00	0.268	27.00	0.393	297.00	NORTH
in space: 70ENE Perim Spc (G.ENE6)							
70NNE Wall (G.12.E24)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 70Plnm (G.12)							
70NNE Wall (G.12.E26)	0.000	0.00	0.268	112.90	0.268	112.90	NORTH
in space: 70Plnm (G.12)							
70NNE Wall (G.12.E28)	0.000	0.00	0.268	32.00	0.268	32.00	NORTH
in space: 70Plnm (G.12)							
7179NNE Wall (M.NNW13.E30)	0.373	1382.40	0.268	172.80	0.361	1555.20	NORTH
in space: 7179NNW Perim Spc (M.NNW13)							
7179NNE Wall (M.NNW13.E32)	0.373	1658.88	0.268	207.36	0.361	1866.24	NORTH
in space: 7179NNW Perim Spc (M.NNW13)							
7179NNE Wall (M.NE17.E40)	0.373	3218.40	0.268	402.30	0.361	3620.70	NORTH
in space: 7179NE Perim Spc (M.NE17)							
7179NNE Wall (M.ENE18.E41)	0.406	2429.99	0.268	243.01	0.393	2673.00	NORTH
in space: 7179ENE Perim Spc (M.ENE18)							
7179NNE Wall (M.24.E52)	0.000	0.00	0.268	495.00	0.268	495.00	NORTH
in space: 7179Plnm (M.24)							
7179NNE Wall (M.24.E54)	0.000	0.00	0.268	1016.10	0.268	1016.10	NORTH
in space: 7179Plnm (M.24)							
7179NNE Wall (M.24.E56)	0.000	0.00	0.268	288.00	0.268	288.00	NORTH
in space: 7179Plnm (M.24)							
8087NNE Wall (M.NNW13.E30)	0.373	1228.80	0.268	153.60	0.361	1382.40	NORTH
in space: 8087NNW Perim Spc (M.NNW13)							
8087NNE Wall (M.NNW13.E32)	0.373	1474.56	0.268	184.32	0.361	1658.88	NORTH
in space: 8087NNW Perim Spc (M.NNW13)							
8087NNE Wall (M.NE17.E40)	0.373	2860.80	0.268	357.60	0.361	3218.40	NORTH
in space: 8087NE Perim Spc (M.NE17)							
8087NNE Wall (M.ENE18.E41)	0.406	2159.99	0.268	216.01	0.393	2376.00	NORTH
in space: 8087ENE Perim Spc (M.ENE18)							
8087NNE Wall (M.24.E52)	0.000	0.00	0.268	440.00	0.268	440.00	NORTH
in space: 8087Plnm (M.24)							
8087NNE Wall (M.24.E54)	0.000	0.00	0.268	903.20	0.268	903.20	NORTH
in space: 8087Plnm (M.24)							
8087NNE Wall (M.24.E56)	0.000	0.00	0.268	256.00	0.268	256.00	NORTH
in space: 8087Plnm (M.24)							
88NNE Wall (T.NNW25.E58)	0.373	153.60	0.268	70.40	0.340	224.00	NORTH
in space: 88NNW Perim Spc (T.NNW25)							

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88NNE Wall (T.NNW25.E60)	0.373	184.32	0.268	84.48	0.340	268.80	NORTH
in space: 88NNW Perim Spc (T.NNW25)							
88NNE Wall (T.NE29.E68)	0.373	357.60	0.268	163.90	0.340	521.50	NORTH
in space: 88NE Perim Spc (T.NE29)							
88NNE Wall (T.ENE30.E69)	0.406	270.00	0.268	115.00	0.365	385.00	NORTH
in space: 88ENE Perim Spc (T.ENE30)							
88NNE Wall (T.36.E80)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 88Plnm (T.36)							
88NNE Wall (T.36.E82)	0.000	0.00	0.268	112.90	0.268	112.90	NORTH
in space: 88Plnm (T.36)							
88NNE Wall (T.36.E84)	0.000	0.00	0.268	32.00	0.268	32.00	NORTH
in space: 88Plnm (T.36)							
89NNE Wall (G.NNW1.E2)	0.373	460.80	0.268	76.80	0.358	537.60	NORTH
in space: 89NNW Perim Spc (G.NNW1)							
89NNE Wall (G.NNW1.E4)	0.373	384.00	0.268	64.00	0.358	448.00	NORTH
in space: 89NNW Perim Spc (G.NNW1)							
89NNE Wall (G.NE2.E6)	0.373	894.00	0.268	149.00	0.358	1043.00	NORTH
in space: 89NE Perim Spc (G.NE2)							
89NNE Wall (G.S6.E13)	0.000	0.00	0.268	284.20	0.268	284.20	NORTH
in space: 89South Perim Spc (G.S6)							
89NNE Wall (G.11.E22)	0.000	0.00	0.268	40.60	0.268	40.60	NORTH
in space: 89Plnm (G.11)							
89NNE Wall (G.11.E25)	0.000	0.00	0.268	225.80	0.268	225.80	NORTH
in space: 89Plnm (G.11)							
89NNE Wall (G.11.E27)	0.000	0.00	0.268	64.00	0.268	64.00	NORTH
in space: 89Plnm (G.11)							
89DBNNE Wall (G.WNW1.E4)	0.373	1250.00	0.268	482.50	0.344	1732.50	NORTH
in space: 89DBWNW Perim Spc (G.WNW1)							
89DBNNE Wall (G.2.E8)	0.000	0.00	0.268	110.00	0.268	110.00	NORTH
in space: 89DBPlnm (G.2)							
90NNE Wall (G.NNW1.E2)	0.373	460.80	0.268	76.80	0.358	537.60	NORTH
in space: 90NNW Perim Spc (G.NNW1)							
90NNE Wall (G.NNW1.E4)	0.373	384.00	0.268	64.00	0.358	448.00	NORTH
in space: 90NNW Perim Spc (G.NNW1)							
90NNE Wall (G.NE2.E6)	0.373	894.00	0.268	149.00	0.358	1043.00	NORTH
in space: 90NE Perim Spc (G.NE2)							
90NNE Wall (G.S6.E13)	0.000	0.00	0.268	284.20	0.268	284.20	NORTH
in space: 90South Perim Spc (G.S6)							
90NNE Wall (G.11.E22)	0.000	0.00	0.268	40.60	0.268	40.60	NORTH
in space: 90Plnm (G.11)							
90NNE Wall (G.11.E25)	0.000	0.00	0.268	225.80	0.268	225.80	NORTH
in space: 90Plnm (G.11)							
90NNE Wall (G.11.E27)	0.000	0.00	0.268	64.00	0.268	64.00	NORTH
in space: 90Plnm (G.11)							
91NNE Wall (G.NNW1.E2)	0.405	238.00	0.268	30.80	0.390	268.80	NORTH
in space: 91NNW Perim Spc (G.NNW1)							
91NNE Wall (G.NNW1.E4)	0.407	210.00	0.268	14.00	0.398	224.00	NORTH
in space: 91NNW Perim Spc (G.NNW1)							
91NNE Wall (G.NE2.E6)	0.398	490.00	0.268	31.50	0.390	521.50	NORTH
in space: 91NE Perim Spc (G.NE2)							
91NNE Wall (G.ESE11.E15)	0.000	0.00	0.268	385.00	0.268	385.00	NORTH
in space: 91ESE Perim Spc (G.ESE11)							
91NNE Wall (G.12.E23)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 91Plnm (G.12)							
91NNE Wall (G.12.E25)	0.000	0.00	0.268	112.90	0.268	112.90	NORTH
in space: 91Plnm (G.12)							
91NNE Wall (G.12.E27)	0.000	0.00	0.268	32.00	0.268	32.00	NORTH
in space: 91Plnm (G.12)							

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92NNE Wall (G.NNW1.E2)	0.405	238.00	0.268	30.80	0.390	268.80	NORTH
in space: 92NNW Perim Spc (G.NNW1)							
92NNE Wall (G.NNW1.E4)	0.407	210.00	0.268	14.00	0.398	224.00	NORTH
in space: 92NNW Perim Spc (G.NNW1)							
92NNE Wall (G.NE2.E6)	0.398	490.00	0.268	31.50	0.390	521.50	NORTH
in space: 92NE Perim Spc (G.NE2)							
92NNE Wall (G.ESE11.E15)	0.000	0.00	0.268	385.00	0.268	385.00	NORTH
in space: 92ESE Perim Spc (G.ESE11)							
92NNE Wall (G.12.E23)	0.000	0.00	0.268	55.00	0.268	55.00	NORTH
in space: 92Plnm (G.12)							
92NNE Wall (G.12.E25)	0.000	0.00	0.268	112.90	0.268	112.90	NORTH
in space: 92Plnm (G.12)							
92NNE Wall (G.12.E27)	0.000	0.00	0.268	32.00	0.268	32.00	NORTH
in space: 92Plnm (G.12)							
GNNE Wall (G.NNE15.E21)	0.572	994.16	0.268	37.84	0.561	1032.00	NORTH
in space: GNNE Perim Spc (G.NNE15)							
GNNE Wall (G.NW2.E3)	0.572	255.76	0.268	9.72	0.561	265.48	NORTH
in space: GNW Perim Spc (G.NW2)							
Exterior Wall 884	0.000	0.00	0.268	2988.00	0.268	2988.00	EAST
in space: 93MERSpace							
25ESE Wall (G.ESE9.E12)	0.000	0.00	0.307	1870.76	0.307	1870.76	EAST
in space: 25ESE Perim Spc (G.ESE9)							
25ESE Wall (T.ESE41.E42)	0.000	0.00	0.307	1870.76	0.307	1870.76	EAST
in space: 25ESE Perim Spc (T.ESE41)							
GESE Wall (G.E6.E9)	0.000	0.00	0.307	591.00	0.307	591.00	EAST
in space: GEast Perim Spc (G.E6)							
1MESE Wall (G.ESE7.E12)	0.000	0.00	0.307	1562.76	0.307	1562.76	EAST
in space: 1MESE Perim Spc (G.ESE7)							
25ESE Wall (M.ESE25.E27)	0.000	0.00	0.307	3741.51	0.307	3741.51	EAST
in space: 25ESE Perim Spc (M.ESE25)							
5765ESE Wall (M.ESE19.E39)	0.373	2308.61	0.268	937.87	0.343	3246.48	EAST
in space: 5765ESE Perim Spc (M.ESE19)							
5765ESE Wall (M.ENE20.E40)	0.373	1617.41	0.268	657.07	0.343	2274.48	EAST
in space: 5765ENE Perim Spc (M.ENE20)							
2026ESE Wall (G.ESE10.E9)	0.373	236.47	0.268	231.13	0.321	467.60	EAST
in space: 2026ESE Perim Spc (G.ESE10)							
5765ESE Wall (M.NE21.E42)	0.373	753.41	0.268	306.07	0.343	1059.48	EAST
in space: 5765NE Perim Spc (M.NE21)							
2026ESE Wall (G.S13.E13)	0.373	110.45	0.268	107.95	0.321	218.40	EAST
in space: 2026South Perim Spc (G.S13)							
5765ESE Wall (M.26.E48)	0.000	0.00	0.268	1380.60	0.268	1380.60	EAST
in space: 5765Plnm (M.26)							
2026ESE Wall (G.14.E19)	0.000	0.00	0.268	157.68	0.268	157.68	EAST
in space: 2026Plnm (G.14)							
5765ESE Wall (M.26.E50)	0.000	0.00	0.268	196.20	0.268	196.20	EAST
in space: 5765Plnm (M.26)							
10AESE Wall (G.10.E19)	0.000	0.00	0.268	4896.22	0.268	4896.22	EAST
in space: 10APlnm (G.10)							
GESE Wall (G.ESE11.E16)	0.000	0.00	0.307	1724.25	0.307	1724.25	EAST
in space: GESE Perim Spc (G.ESE11)							
2026ESE Wall (M.E20.E22)	0.373	1366.44	0.268	563.56	0.342	1930.00	EAST
in space: 2026East Perim Spc (M.E20)							
10MESE Wall (G.ESE4.E4)	0.000	0.00	0.268	901.20	0.268	901.20	EAST
in space: 10MESE Perim Spc (G.ESE4)							
66ESE Wall (T.SSE31.E63)	0.373	152.83	0.268	125.77	0.326	278.60	EAST
in space: 66SSE Perim Spc (T.SSE31)							
66ESE Wall (T.ESE32.E65)	0.373	256.51	0.268	211.09	0.326	467.60	EAST
in space: 66ESE Perim Spc (T.ESE32)							

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66ESE Wall (T.ENE33.E66)	0.373	179.71	0.268	147.89	0.326	327.60	EAST
in space: 66ENE Perim Spc (T.ENE33)							
10MESE Wall (G.ESE6.E5)	0.000	0.00	0.268	1047.02	0.268	1047.02	EAST
in space: 10MESE Perim Spc (G.ESE6)							
66ESE Wall (T.NE34.E68)	0.373	83.71	0.268	68.89	0.326	152.60	EAST
in space: 66NE Perim Spc (T.NE34)							
2026ESE Wall (M.ESE24.E29)	0.373	1182.36	0.268	487.64	0.342	1670.00	EAST
in space: 2026ESE Perim Spc (M.ESE24)							
66ESE Wall (T.39.E74)	0.000	0.00	0.268	153.40	0.268	153.40	EAST
in space: 66Plnm (T.39)							
2026ESE Wall (M.S27.E33)	0.373	552.24	0.268	227.76	0.342	780.00	EAST
in space: 2026South Perim Spc (M.S27)							
66ESE Wall (T.39.E76)	0.000	0.00	0.268	21.80	0.268	21.80	EAST
in space: 66Plnm (T.39)							
2026ESE Wall (M.28.E39)	0.000	0.00	0.268	788.40	0.268	788.40	EAST
in space: 2026Plnm (M.28)							
10MESE Wall (G.SSW7.E7)	0.000	0.00	0.268	2557.77	0.268	2557.77	EAST
in space: 10MSSW Perim Spc (G.SSW7)							
Exterior Wall 894	0.000	0.00	0.268	1080.00	0.268	1080.00	EAST
in space: 6MC Top Spc							
2026ESE Wall (T.E34.E42)	0.410	205.00	0.268	335.40	0.322	540.40	EAST
in space: 2026East Perim Spc (T.E34)							
67MCESE Wall (G.SSE5.E10)	0.000	0.00	0.268	557.20	0.268	557.20	EAST
in space: 67MCSSE Perim Spc (G.SSE5)							
67MCESE Wall (G.ESE6.E12)	0.000	0.00	0.268	935.20	0.268	935.20	EAST
in space: 67MCESE Perim Spc (G.ESE6)							
67MCESE Wall (G.ENE7.E13)	0.000	0.00	0.268	655.20	0.268	655.20	EAST
in space: 67MCENE Perim Spc (G.ENE7)							
GESE Wall (G.18.E30)	0.000	0.00	0.268	20.70	0.268	20.70	EAST
in space: GPlnm (G.18)							
67MCESE Wall (G.NE8.E15)	0.000	0.00	0.268	305.20	0.268	305.20	EAST
in space: 67MCNE Perim Spc (G.NE8)							
10MESE Wall (G.ENE9.E14)	0.000	0.00	0.268	2347.78	0.268	2347.78	EAST
in space: 10MENE Perim Spc (G.ENE9)							
2026ESE Wall (T.ESE38.E49)	0.373	236.47	0.268	231.13	0.321	467.60	EAST
in space: 2026ESE Perim Spc (T.ESE38)							
2026ESE Wall (T.S41.E53)	0.373	110.45	0.268	107.95	0.321	218.40	EAST
in space: 2026South Perim Spc (T.S41)							
68ESE Wall (G.NE2.E5)	0.373	132.00	0.268	60.50	0.340	192.50	EAST
in space: 68NE Perim Spc (G.NE2)							
2026ESE Wall (T.42.E59)	0.000	0.00	0.268	157.68	0.268	157.68	EAST
in space: 2026Plnm (T.42)							
68ESE Wall (G.NE2.E7)	0.000	0.00	0.268	136.50	0.268	136.50	EAST
in space: 68NE Perim Spc (G.NE2)							
68ESE Wall (G.ESE3.E11)	0.373	22.56	0.268	10.34	0.340	32.90	EAST
in space: 68ESE Perim Spc (G.ESE3)							
11MCESE Wall (G.NNE1.E3)	0.000	0.00	0.268	914.82	0.268	914.82	EAST
in space: 11MCNNE Perim Spc (G.NNE1)							
68ESE Wall (G.S6.E17)	0.000	0.00	0.268	278.60	0.268	278.60	EAST
in space: 68South Perim Spc (G.S6)							
68ESE Wall (G.ESE9.E19)	0.000	0.00	0.268	373.80	0.268	373.80	EAST
in space: 68ESE Perim Spc (G.ESE9)							
68ESE Wall (G.C10.E20)	0.000	0.00	0.268	93.80	0.268	93.80	EAST
in space: 68Core Spc (G.C10)							
68ESE Wall (G.11.E25)	0.000	0.00	0.268	126.10	0.268	126.10	EAST
in space: 68Plnm (G.11)							
68ESE Wall (G.11.E29)	0.000	0.00	0.268	4.70	0.268	4.70	EAST
in space: 68Plnm (G.11)							

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25ESE Wall (T.ESE42.E43)	0.000	0.00	0.307	1547.88	0.307	1547.88	EAST
in space: 25ESE Perim Spc (T.ESE42)							
68ESE Wall (G.11.E31)	0.000	0.00	0.268	27.50	0.268	27.50	EAST
in space: 68Plnm (G.11)							
27MCESE Wall (G.E6.E2)	0.000	0.00	0.268	694.80	0.268	694.80	EAST
in space: 27MCEast Perim Spc (G.E6)							
11MCESE Wall (G.WSW5.E11)	0.000	0.00	0.268	708.63	0.268	708.63	EAST
in space: 11MCWSW Perim Spc (G.WSW5)							
68DBESE Wall (G.WNW1.E3)	0.373	2059.20	0.268	85.80	0.369	2145.00	EAST
in space: 68DBWNW Perim Spc (G.WNW1)							
11MCESE Wall (G.SE6.E13)	0.000	0.00	0.268	1161.30	0.268	1161.30	EAST
in space: 11MCSE Perim Spc (G.SE6)							
27MCESE Wall (G.ESE10.E9)	0.000	0.00	0.268	601.20	0.268	601.20	EAST
in space: 27MCESE Perim Spc (G.ESE10)							
27MCESE Wall (G.S13.E13)	0.000	0.00	0.268	280.80	0.268	280.80	EAST
in space: 27MCSouth Perim Spc (G.S13)							
68DBESE Wall (G.2.E9)	0.000	0.00	0.268	143.00	0.268	143.00	EAST
in space: 68DBPlnm (G.2)							
11DBESE Wall (G.WNW1.E3)	0.000	0.00	0.268	4529.80	0.268	4529.80	EAST
in space: 11DBWNW Perim Spc (G.WNW1)							
GESE Wall (G.SSW12.E18)	0.000	0.00	0.268	123.75	0.268	123.75	EAST
in space: GSSW Perim Spc (G.SSW12)							
GESE Wall (G.NNE15.E20)	0.000	0.00	0.268	155.25	0.268	155.25	EAST
in space: GNNE Perim Spc (G.NNE15)							
28ESE Wall (G.E7.E5)	0.373	273.29	0.268	267.11	0.321	540.40	EAST
in space: 28East Perim Spc (G.E7)							
28ESE Wall (G.ESE8.E6)	0.373	236.47	0.268	231.13	0.321	467.60	EAST
in space: 28ESE Perim Spc (G.ESE8)							
69ESE Wall (G.NE2.E5)	0.373	132.00	0.268	60.50	0.340	192.50	EAST
in space: 69NE Perim Spc (G.NE2)							
28ESE Wall (G.S9.E7)	0.373	110.45	0.268	107.95	0.321	218.40	EAST
in space: 28South Perim Spc (G.S9)							
69ESE Wall (G.NE2.E7)	0.000	0.00	0.268	136.50	0.268	136.50	EAST
in space: 69NE Perim Spc (G.NE2)							
69ESE Wall (G.ESE3.E11)	0.373	22.56	0.268	10.34	0.340	32.90	EAST
in space: 69ESE Perim Spc (G.ESE3)							
28ESE Wall (G.13.E15)	0.000	0.00	0.268	175.20	0.268	175.20	EAST
in space: 28Plnm (G.13)							
69ESE Wall (G.S6.E17)	0.000	0.00	0.268	278.60	0.268	278.60	EAST
in space: 69South Perim Spc (G.S6)							
69ESE Wall (G.ESE9.E19)	0.000	0.00	0.268	373.80	0.268	373.80	EAST
in space: 69ESE Perim Spc (G.ESE9)							
69ESE Wall (G.C10.E20)	0.000	0.00	0.268	93.80	0.268	93.80	EAST
in space: 69Core Spc (G.C10)							
69ESE Wall (G.11.E25)	0.000	0.00	0.268	126.10	0.268	126.10	EAST
in space: 69Plnm (G.11)							
69ESE Wall (G.11.E29)	0.000	0.00	0.268	4.70	0.268	4.70	EAST
in space: 69Plnm (G.11)							
25ESE Wall (M.ESE26.E28)	0.000	0.00	0.307	3095.75	0.307	3095.75	EAST
in space: 25ESE Perim Spc (M.ESE26)							
69ESE Wall (G.11.E31)	0.000	0.00	0.268	27.50	0.268	27.50	EAST
in space: 69Plnm (G.11)							
GESE Wall (G.ESE10.E14)	0.000	0.00	0.268	336.00	0.268	336.00	EAST
in space: GESE Perim Spc (G.ESE10)							
1519ESE Wall (G.E8.E7)	0.373	819.86	0.268	338.14	0.342	1158.00	EAST
in space: 1519East Perim Spc (G.E8)							
1519ESE Wall (G.ESE9.E8)	0.373	709.42	0.268	292.58	0.342	1002.00	EAST
in space: 1519ESE Perim Spc (G.ESE9)							

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2936ESE Wall (M.E20.E21)	0.373	2186.30	0.268	839.94	0.344	3026.24	EAST
in space: 2936East Perim Spc (M.E20)							
70ESE Wall (G.S4.E9)	0.373	162.43	0.268	65.99	0.343	228.42	EAST
in space: 70South Perim Spc (G.S4)							
70ESE Wall (G.NE5.E11)	0.373	105.60	0.268	42.90	0.343	148.50	EAST
in space: 70NE Perim Spc (G.NE5)							
2936ESE Wall (M.ESE21.E22)	0.373	1891.78	0.268	726.78	0.344	2618.56	EAST
in space: 2936ESE Perim Spc (M.ESE21)							
2936ESE Wall (M.S22.E23)	0.373	883.58	0.268	339.46	0.344	1223.04	EAST
in space: 2936South Perim Spc (M.S22)							
70ESE Wall (G.ENE6.E14)	0.373	164.35	0.268	66.77	0.343	231.12	EAST
in space: 70ENE Perim Spc (G.ENE6)							
70ESE Wall (G.SE7.E16)	0.373	240.38	0.268	97.66	0.343	338.04	EAST
in space: 70SE Perim Spc (G.SE7)							
70ESE Wall (G.12.E21)	0.000	0.00	0.268	42.30	0.268	42.30	EAST
in space: 70Plnm (G.12)							
70ESE Wall (G.12.E23)	0.000	0.00	0.268	105.40	0.268	105.40	EAST
in space: 70Plnm (G.12)							
2936ESE Wall (M.26.E31)	0.000	0.00	0.268	1401.60	0.268	1401.60	EAST
in space: 2936Plnm (M.26)							
70ESE Wall (G.12.E25)	0.000	0.00	0.268	27.50	0.268	27.50	EAST
in space: 70Plnm (G.12)							
1519ESE Wall (G.S10.E10)	0.420	331.20	0.268	136.80	0.376	468.00	EAST
in space: 1519South Perim Spc (G.S10)							
1519ESE Wall (G.SSE11.E11)	0.373	635.08	0.268	261.92	0.342	897.00	EAST
in space: 1519SSE Perim Spc (G.SSE11)							
1519ESE Wall (G.14.E20)	0.000	0.00	0.268	161.46	0.268	161.46	EAST
in space: 1519Plnm (G.14)							
1519ESE Wall (G.14.E22)	0.000	0.00	0.268	473.04	0.268	473.04	EAST
in space: 1519Plnm (G.14)							
7179ESE Wall (M.S16.E37)	0.373	1461.89	0.268	593.89	0.343	2055.78	EAST
in space: 7179South Perim Spc (M.S16)							
7179ESE Wall (M.NE17.E39)	0.373	950.40	0.268	386.10	0.343	1336.50	EAST
in space: 7179NE Perim Spc (M.NE17)							
3744ESE Wall (M.E20.E21)	0.373	2186.30	0.268	839.94	0.344	3026.24	EAST
in space: 3744East Perim Spc (M.E20)							
3744ESE Wall (M.ESE21.E22)	0.373	1891.78	0.268	726.78	0.344	2618.56	EAST
in space: 3744ESE Perim Spc (M.ESE21)							
7179ESE Wall (M.ENE18.E42)	0.373	1479.17	0.268	600.91	0.343	2080.08	EAST
in space: 7179ENE Perim Spc (M.ENE18)							
7179ESE Wall (M.SE19.E44)	0.373	2163.46	0.268	878.90	0.343	3042.36	EAST
in space: 7179SE Perim Spc (M.SE19)							
7179ESE Wall (M.24.E49)	0.000	0.00	0.268	380.70	0.268	380.70	EAST
in space: 7179Plnm (M.24)							
7179ESE Wall (M.24.E51)	0.000	0.00	0.268	948.60	0.268	948.60	EAST
in space: 7179Plnm (M.24)							
3744ESE Wall (M.S22.E23)	0.373	883.58	0.268	339.46	0.344	1223.04	EAST
in space: 3744South Perim Spc (M.S22)							
7179ESE Wall (M.24.E53)	0.000	0.00	0.268	247.50	0.268	247.50	EAST
in space: 7179Plnm (M.24)							
3744ESE Wall (M.26.E31)	0.000	0.00	0.268	1401.60	0.268	1401.60	EAST
in space: 3744Plnm (M.26)							
8AESE Wall (G.ESE12.E16)	0.000	0.00	0.268	1683.60	0.268	1683.60	EAST
in space: 8AESE Perim Spc (G.ESE12)							
25ESE Wall (G.ESE10.E13)	0.000	0.00	0.307	1547.88	0.307	1547.88	EAST
in space: 25ESE Perim Spc (G.ESE10)							
8MCESE Wall (G.NNE1.E2)	0.000	0.00	0.268	473.00	0.268	473.00	EAST
in space: 8MANNE Perim Spc (G.NNE1)							

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8087ESE Wall (M.S16.E37)	0.373	1299.46	0.268	527.90	0.343	1827.36	EAST
in space: 8087South Perim Spc (M.S16)							
8087ESE Wall (M.NE17.E39)	0.373	844.80	0.268	343.20	0.343	1188.00	EAST
in space: 8087NE Perim Spc (M.NE17)							
GESE Wall (G.18.E26)	0.000	0.00	0.268	16.50	0.268	16.50	EAST
in space: GPlnm (G.18)							
45ESE Wall (T.E33.E37)	0.373	273.29	0.268	267.11	0.321	540.40	EAST
in space: 45East Perim Spc (T.E33)							
8087ESE Wall (M.ENE18.E42)	0.373	1314.82	0.268	534.14	0.343	1848.96	EAST
in space: 8087ENE Perim Spc (M.ENE18)							
8087ESE Wall (M.SE19.E44)	0.373	1923.07	0.268	781.25	0.343	2704.32	EAST
in space: 8087SE Perim Spc (M.SE19)							
8087ESE Wall (M.24.E49)	0.000	0.00	0.268	338.40	0.268	338.40	EAST
in space: 8087Plnm (M.24)							
8087ESE Wall (M.24.E51)	0.000	0.00	0.268	843.20	0.268	843.20	EAST
in space: 8087Plnm (M.24)							
45ESE Wall (T.ESE34.E38)	0.373	236.47	0.268	231.13	0.321	467.60	EAST
in space: 45ESE Perim Spc (T.ESE34)							
8087ESE Wall (M.24.E53)	0.000	0.00	0.268	220.00	0.268	220.00	EAST
in space: 8087Plnm (M.24)							
45ESE Wall (T.S35.E39)	0.373	110.45	0.268	107.95	0.321	218.40	EAST
in space: 45South Perim Spc (T.S35)							
45ESE Wall (T.39.E47)	0.000	0.00	0.268	175.20	0.268	175.20	EAST
in space: 45Plnm (T.39)							
1519ESE Wall (M.E22.E30)	0.373	1366.44	0.268	563.56	0.342	1930.00	EAST
in space: 1519East Perim Spc (M.E22)							
1519ESE Wall (M.ESE23.E31)	0.373	1182.36	0.268	487.64	0.342	1670.00	EAST
in space: 1519ESE Perim Spc (M.ESE23)							
88ESE Wall (T.S28.E65)	0.373	162.43	0.268	133.67	0.326	296.10	EAST
in space: 88South Perim Spc (T.S28)							
88ESE Wall (T.NE29.E67)	0.373	105.60	0.268	86.90	0.326	192.50	EAST
in space: 88NE Perim Spc (T.NE29)							
1519ESE Wall (M.S24.E33)	0.373	552.24	0.268	227.76	0.342	780.00	EAST
in space: 1519South Perim Spc (M.S24)							
1519ESE Wall (M.SSE25.E34)	0.373	1058.46	0.268	436.54	0.342	1495.00	EAST
in space: 1519SSE Perim Spc (M.SSE25)							
88ESE Wall (T.ENE30.E70)	0.373	164.35	0.268	135.25	0.326	299.60	EAST
in space: 88ENE Perim Spc (T.ENE30)							
88ESE Wall (T.SE31.E72)	0.373	240.38	0.268	197.82	0.326	438.20	EAST
in space: 88SE Perim Spc (T.SE31)							
88ESE Wall (T.36.E77)	0.000	0.00	0.268	42.30	0.268	42.30	EAST
in space: 88Plnm (T.36)							
88ESE Wall (T.36.E79)	0.000	0.00	0.268	105.40	0.268	105.40	EAST
in space: 88Plnm (T.36)							
46MCESE Wall (T.E33.E37)	0.000	0.00	0.268	694.80	0.268	694.80	EAST
in space: 46MCEast Perim Spc (T.E33)							
88ESE Wall (T.36.E81)	0.000	0.00	0.268	27.50	0.268	27.50	EAST
in space: 88Plnm (T.36)							
46MCESE Wall (T.ESE34.E38)	0.000	0.00	0.268	601.20	0.268	601.20	EAST
in space: 46MCESE Perim Spc (T.ESE34)							
46MCESE Wall (T.S35.E39)	0.000	0.00	0.268	280.80	0.268	280.80	EAST
in space: 46MCSouth Perim Spc (T.S35)							
46MCESE Wall (T.39.E47)	0.000	0.00	0.268	175.20	0.268	175.20	EAST
in space: 46MCPlnm (T.39)							
1519ESE Wall (M.28.E43)	0.000	0.00	0.268	269.10	0.268	269.10	EAST
in space: 1519Plnm (M.28)							
89ESE Wall (G.NE2.E5)	0.000	0.00	0.268	385.00	0.268	385.00	EAST
in space: 89NE Perim Spc (G.NE2)							

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1519ESE Wall (M.28.E45)	0.000	0.00	0.268	788.40	0.268	788.40	EAST
in space: 1519Plnm (M.28)							
89ESE Wall (G.ESE3.E7)	0.000	0.00	0.268	539.00	0.268	539.00	EAST
in space: 89ESE Perim Spc (G.ESE3)							
89ESE Wall (G.S6.E12)	0.373	406.08	0.268	186.12	0.340	592.20	EAST
in space: 89South Perim Spc (G.S6)							
8MCESE Wall (G.SSW2.E5)	0.000	0.00	0.268	947.00	0.268	947.00	EAST
in space: 8MASSW Perim Spc (G.SSW2)							
89ESE Wall (G.ESE9.E15)	0.000	0.00	0.268	747.60	0.268	747.60	EAST
in space: 89ESE Perim Spc (G.ESE9)							
89ESE Wall (G.C10.E16)	0.000	0.00	0.268	189.00	0.268	189.00	EAST
in space: 89Core Spc (G.C10)							
89ESE Wall (G.11.E21)	0.000	0.00	0.268	84.60	0.268	84.60	EAST
in space: 89Plnm (G.11)							
47ESE Wall (G.SSE5.E10)	0.373	152.83	0.268	62.09	0.343	214.92	EAST
in space: 47SSE Perim Spc (G.SSE5)							
89ESE Wall (G.11.E23)	0.000	0.00	0.268	210.80	0.268	210.80	EAST
in space: 89Plnm (G.11)							
89ESE Wall (G.11.E24)	0.000	0.00	0.268	55.00	0.268	55.00	EAST
in space: 89Plnm (G.11)							
47ESE Wall (G.ESE6.E12)	0.373	256.51	0.268	104.21	0.343	360.72	EAST
in space: 47ESE Perim Spc (G.ESE6)							
47ESE Wall (G.ENE7.E13)	0.373	74.12	0.268	36.50	0.338	110.62	EAST
in space: 47ENE Perim Spc (G.ENE7)							
89DBESE Wall (G.WNW1.E3)	0.386	3149.99	0.268	170.11	0.380	3320.10	EAST
in space: 89DBWNW Perim Spc (G.WNW1)							
47ESE Wall (G.ENE7.E14)	0.373	95.81	0.268	33.12	0.346	128.94	EAST
in space: 47ENE Perim Spc (G.ENE7)							
89DBESE Wall (G.2.E7)	0.000	0.00	0.268	210.80	0.268	210.80	EAST
in space: 89DBPlnm (G.2)							
6MCESE Wall (G.ESE5.E9)	0.000	0.00	0.307	6118.20	0.307	6118.20	EAST
in space: 6MCESE Perim Spc (G.ESE5)							
47ESE Wall (G.NE8.E16)	0.373	83.71	0.268	34.01	0.343	117.72	EAST
in space: 47NE Perim Spc (G.NE8)							
10AESE Wall (G.ESE4.E4)	0.000	0.00	0.268	216.30	0.268	216.30	EAST
in space: 10AESE Perim Spc (G.ESE4)							
90ESE Wall (G.NE2.E5)	0.000	0.00	0.268	385.00	0.268	385.00	EAST
in space: 90NE Perim Spc (G.NE2)							
47ESE Wall (G.13.E22)	0.000	0.00	0.268	153.40	0.268	153.40	EAST
in space: 47Plnm (G.13)							
90ESE Wall (G.ESE3.E7)	0.000	0.00	0.268	539.00	0.268	539.00	EAST
in space: 90ESE Perim Spc (G.ESE3)							
90ESE Wall (G.S6.E12)	0.373	406.08	0.268	186.12	0.340	592.20	EAST
in space: 90South Perim Spc (G.S6)							
10AESE Wall (G.ESE6.E5)	0.000	0.00	0.268	251.30	0.268	251.30	EAST
in space: 10AESE Perim Spc (G.ESE6)							
90ESE Wall (G.ESE9.E15)	0.000	0.00	0.268	747.60	0.268	747.60	EAST
in space: 90ESE Perim Spc (G.ESE9)							
90ESE Wall (G.C10.E16)	0.000	0.00	0.268	189.00	0.268	189.00	EAST
in space: 90Core Spc (G.C10)							
90ESE Wall (G.11.E21)	0.000	0.00	0.268	84.60	0.268	84.60	EAST
in space: 90Plnm (G.11)							
47ESE Wall (G.13.E24)	0.000	0.00	0.268	21.80	0.268	21.80	EAST
in space: 47Plnm (G.13)							
90ESE Wall (G.11.E23)	0.000	0.00	0.268	210.80	0.268	210.80	EAST
in space: 90Plnm (G.11)							
90ESE Wall (G.11.E24)	0.000	0.00	0.268	55.00	0.268	55.00	EAST
in space: 90Plnm (G.11)							

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1519ESE Wall (T.E36.E53)	0.373	273.29	0.268	267.11	0.321	540.40	EAST
in space: 1519East Perim Spc (T.E36)							
1519ESE Wall (T.ESE37.E54)	0.373	236.47	0.268	231.13	0.321	467.60	EAST
in space: 1519ESE Perim Spc (T.ESE37)							
1519ESE Wall (T.S38.E56)	0.373	110.45	0.268	107.95	0.321	218.40	EAST
in space: 1519South Perim Spc (T.S38)							
1519ESE Wall (T.SSE39.E57)	0.373	211.69	0.268	206.91	0.321	418.60	EAST
in space: 1519SSE Perim Spc (T.SSE39)							
91ESE Wall (G.NE2.E5)	0.411	168.00	0.268	24.50	0.393	192.50	EAST
in space: 91NE Perim Spc (G.NE2)							
4856ESE Wall (M.SSE18.E37)	0.373	1375.49	0.268	558.79	0.343	1934.28	EAST
in space: 4856SSE Perim Spc (M.SSE18)							
91ESE Wall (G.S6.E11)	0.373	203.04	0.268	93.06	0.340	296.10	EAST
in space: 91South Perim Spc (G.S6)							
91ESE Wall (G.ESE11.E14)	0.000	0.00	0.268	737.80	0.268	737.80	EAST
in space: 91ESE Perim Spc (G.ESE11)							
4856ESE Wall (M.ESE19.E39)	0.373	2308.61	0.268	937.87	0.343	3246.48	EAST
in space: 4856ESE Perim Spc (M.ESE19)							
91ESE Wall (G.12.E20)	0.000	0.00	0.268	42.30	0.268	42.30	EAST
in space: 91Plnm (G.12)							
91ESE Wall (G.12.E22)	0.000	0.00	0.268	105.40	0.268	105.40	EAST
in space: 91Plnm (G.12)							
4856ESE Wall (M.ENE20.E40)	0.373	1617.41	0.268	657.07	0.343	2274.48	EAST
in space: 4856ENE Perim Spc (M.ENE20)							
91ESE Wall (G.12.E24)	0.000	0.00	0.268	27.50	0.268	27.50	EAST
in space: 91Plnm (G.12)							
1519ESE Wall (T.42.E66)	0.000	0.00	0.268	53.82	0.268	53.82	EAST
in space: 1519Plnm (T.42)							
4856ESE Wall (M.NE21.E42)	0.373	753.41	0.268	306.07	0.343	1059.48	EAST
in space: 4856NE Perim Spc (M.NE21)							
1519ESE Wall (T.42.E68)	0.000	0.00	0.268	157.68	0.268	157.68	EAST
in space: 1519Plnm (T.42)							
4856ESE Wall (M.26.E48)	0.000	0.00	0.268	1380.60	0.268	1380.60	EAST
in space: 4856Plnm (M.26)							
92ESE Wall (G.NE2.E5)	0.411	168.00	0.268	24.50	0.393	192.50	EAST
in space: 92NE Perim Spc (G.NE2)							
10AESE Wall (G.SSW7.E7)	0.000	0.00	0.268	613.90	0.268	613.90	EAST
in space: 10ASSW Perim Spc (G.SSW7)							
92ESE Wall (G.S6.E11)	0.000	0.00	0.268	296.10	0.268	296.10	EAST
in space: 92South Perim Spc (G.S6)							
92ESE Wall (G.ESE11.E14)	0.000	0.00	0.268	737.80	0.268	737.80	EAST
in space: 92ESE Perim Spc (G.ESE11)							
4856ESE Wall (M.26.E50)	0.000	0.00	0.268	196.20	0.268	196.20	EAST
in space: 4856Plnm (M.26)							
92ESE Wall (G.12.E20)	0.000	0.00	0.268	42.30	0.268	42.30	EAST
in space: 92Plnm (G.12)							
92ESE Wall (G.12.E22)	0.000	0.00	0.268	105.40	0.268	105.40	EAST
in space: 92Plnm (G.12)							
6MCESE Wall (G.11.E13)	0.000	0.00	0.268	339.90	0.268	339.90	EAST
in space: 6MCPlnm (G.11)							
92ESE Wall (G.12.E24)	0.000	0.00	0.268	27.50	0.268	27.50	EAST
in space: 92Plnm (G.12)							
2026ESE Wall (G.E6.E2)	0.373	273.29	0.268	267.11	0.321	540.40	EAST
in space: 2026East Perim Spc (G.E6)							
GESE Wall (G.18.E28)	0.000	0.00	0.268	353.50	0.268	353.50	EAST
in space: GPlnm (G.18)							
10AESE Wall (G.ENE9.E14)	0.000	0.00	0.268	563.50	0.268	563.50	EAST
in space: 10AENE Perim Spc (G.ENE9)							

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5765ESE Wall (M.SSE18.E37)	0.373	1375.49	0.268	558.79	0.343	1934.28	EAST
in space: 5765SSE Perim Spc (M.SSE18)							
69SSE Wall (G.11.E27)	0.000	0.00	0.268	24.40	0.268	24.40	SOUTH-EAST
in space: 69Plnm (G.11)							
68SSE Wall (G.11.E27)	0.000	0.00	0.268	24.40	0.268	24.40	SOUTH-EAST
in space: 68Plnm (G.11)							
68SSE Wall (G.ESE3.E9)	0.000	0.00	0.268	170.80	0.268	170.80	SOUTH-EAST
in space: 68ESE Perim Spc (G.ESE3)							
69SSE Wall (G.ESE3.E9)	0.000	0.00	0.268	170.80	0.268	170.80	SOUTH-EAST
in space: 69ESE Perim Spc (G.ESE3)							
Exterior Wall 883	0.000	0.00	0.268	2988.00	0.268	2988.00	SOUTH
in space: 93MERSpace							
25SSW Wall (T.SSW35.E35)	0.000	0.00	0.307	428.75	0.307	428.75	SOUTH
in space: 25SSW Perim Spc (T.SSW35)							
68SSW Wall (G.11.E22)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 68Plnm (G.11)							
68SSW Wall (G.11.E24)	0.000	0.00	0.268	126.90	0.268	126.90	SOUTH
in space: 68Plnm (G.11)							
1519SSW Wall (M.WNW20.E25)	0.373	856.24	0.268	756.26	0.324	1612.50	SOUTH
in space: 1519WNW Perim Spc (M.WNW20)							
68SSW Wall (G.11.E26)	0.000	0.00	0.268	30.40	0.268	30.40	SOUTH
in space: 68Plnm (G.11)							
8ASSW Wall (G.ESE12.E18)	0.000	0.00	0.268	121.20	0.268	121.20	SOUTH
in space: 8AESE Perim Spc (G.ESE12)							
68SSW Wall (G.11.E28)	0.000	0.00	0.268	7.00	0.268	7.00	SOUTH
in space: 68Plnm (G.11)							
25SSW Wall (T.W36.E37)	0.000	0.00	0.307	266.00	0.307	266.00	SOUTH
in space: 25West Perim Spc (T.W36)							
1519SSW Wall (M.NNE21.E28)	0.373	755.35	0.268	667.15	0.324	1422.50	SOUTH
in space: 1519NNE Perim Spc (M.NNE21)							
25SSW Wall (T.SSW37.E38)	0.572	2392.34	0.268	125.91	0.557	2518.25	SOUTH
in space: 25SSW Perim Spc (T.SSW37)							
8MCSSW Wall (G.SSW2.E4)	0.373	1200.00	0.268	243.00	0.355	1443.00	SOUTH
in space: 8MASSW Perim Spc (G.SSW2)							
2936SSW Wall (M.S22.E24)	0.410	1607.20	0.268	395.92	0.382	2003.12	SOUTH
in space: 2936South Perim Spc (M.S22)							
68DBSSW Wall (G.WNW1.E2)	0.392	700.00	0.268	125.00	0.373	825.00	SOUTH
in space: 68DBWNW Perim Spc (G.WNW1)							
2936SSW Wall (M.SSW23.E25)	0.373	1582.38	0.268	1338.02	0.325	2920.40	SOUTH
in space: 2936SSW Perim Spc (M.SSW23)							
2936SSW Wall (M.SW24.E26)	0.410	1724.80	0.268	1187.76	0.352	2912.56	SOUTH
in space: 2936SW Perim Spc (M.SW24)							
2936SSW Wall (M.26.E30)	0.000	0.00	0.268	1599.20	0.268	1599.20	SOUTH
in space: 2936Plnm (M.26)							
Exterior Wall 892	0.572	841.00	0.268	59.00	0.552	900.00	SOUTH
in space: 25SSW Perim Spc (T.SSW37)							
68DBSSW Wall (G.2.E8)	0.000	0.00	0.268	55.00	0.268	55.00	SOUTH
in space: 68DBPlnm (G.2)							
1519SSW Wall (M.S24.E32)	0.408	1250.00	0.268	140.00	0.394	1390.00	SOUTH
in space: 1519South Perim Spc (M.S24)							
25SSW Wall (T.SSW40.E41)	0.952	93.50	0.307	1157.75	0.355	1251.25	SOUTH
in space: 25SSW Perim Spc (T.SSW40)							
10ASSW Wall (G.SSW2.E2)	0.000	0.00	0.268	409.50	0.268	409.50	SOUTH
in space: 10ASSW Perim Spc (G.SSW2)							
1519SSW Wall (M.SSE25.E35)	0.373	1121.73	0.268	990.77	0.324	2112.50	SOUTH
in space: 1519SSE Perim Spc (M.SSE25)							
1519SSW Wall (M.W26.E36)	0.373	793.84	0.268	701.16	0.324	1495.00	SOUTH
in space: 1519West Perim Spc (M.W26)							

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1519SSW Wall (M.28.E40)	0.000	0.00	0.268	546.30	0.268	546.30	SOUTH
in space: 1519Plnm (M.28)							
1519SSW Wall (M.28.E42)	0.000	0.00	0.268	649.35	0.268	649.35	SOUTH
in space: 1519Plnm (M.28)							
3744SSW Wall (M.S22.E24)	0.410	1607.20	0.268	395.92	0.382	2003.12	SOUTH
in space: 3744South Perim Spc (M.S22)							
3744SSW Wall (M.SSW23.E25)	0.373	1582.38	0.268	1338.02	0.325	2920.40	SOUTH
in space: 3744SSW Perim Spc (M.SSW23)							
69SSW Wall (G.ESE3.E8)	0.000	0.00	0.268	212.80	0.268	212.80	SOUTH
in space: 69ESE Perim Spc (G.ESE3)							
3744SSW Wall (M.SW24.E26)	0.410	1724.80	0.268	1187.76	0.352	2912.56	SOUTH
in space: 3744SW Perim Spc (M.SW24)							
69SSW Wall (G.ESE3.E10)	0.000	0.00	0.268	49.00	0.268	49.00	SOUTH
in space: 69ESE Perim Spc (G.ESE3)							
3744SSW Wall (M.26.E30)	0.000	0.00	0.268	1599.20	0.268	1599.20	SOUTH
in space: 3744Plnm (M.26)							
25SSW Wall (G.SSW8.E11)	0.952	93.50	0.307	1157.75	0.355	1251.25	SOUTH
in space: 25SSW Perim Spc (G.SSW8)							
69SSW Wall (G.W4.E13)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 69West Perim Spc (G.W4)							
69SSW Wall (G.SW5.E16)	0.373	188.64	0.268	178.16	0.322	366.80	SOUTH
in space: 69SW Perim Spc (G.SW5)							
1519SSW Wall (M.28.E44)	0.000	0.00	0.268	250.20	0.268	250.20	SOUTH
in space: 1519Plnm (M.28)							
69SSW Wall (G.S6.E18)	0.373	268.20	0.268	253.30	0.322	521.50	SOUTH
in space: 69South Perim Spc (G.S6)							
GSSW Wall (G.18.E23)	0.000	0.00	0.268	222.40	0.268	222.40	SOUTH
in space: GPlnm (G.18)							
10ASSW Wall (G.SSW7.E6)	0.373	505.05	0.268	505.05	0.321	1010.10	SOUTH
in space: 10ASSW Perim Spc (G.SSW7)							
69SSW Wall (G.11.E22)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 69Plnm (G.11)							
69SSW Wall (G.11.E24)	0.000	0.00	0.268	126.90	0.268	126.90	SOUTH
in space: 69Plnm (G.11)							
1519SSW Wall (T.WNW34.E48)	0.373	171.25	0.268	280.25	0.308	451.50	SOUTH
in space: 1519WNW Perim Spc (T.WNW34)							
69SSW Wall (G.11.E26)	0.000	0.00	0.268	30.40	0.268	30.40	SOUTH
in space: 69Plnm (G.11)							
GSSW Wall (G.18.E25)	0.000	0.00	0.268	212.80	0.268	212.80	SOUTH
in space: GPlnm (G.18)							
69SSW Wall (G.11.E28)	0.000	0.00	0.268	7.00	0.268	7.00	SOUTH
in space: 69Plnm (G.11)							
10ASSW Wall (G.N8.E10)	0.000	0.00	0.268	440.30	0.268	440.30	SOUTH
in space: 10ANorth Perim Spc (G.N8)							
1519SSW Wall (T.NNE35.E51)	0.373	151.07	0.268	247.23	0.308	398.30	SOUTH
in space: 1519NNE Perim Spc (T.NNE35)							
45SSW Wall (T.S35.E40)	0.410	200.90	0.268	156.80	0.348	357.70	SOUTH
in space: 45South Perim Spc (T.S35)							
45SSW Wall (T.SSW36.E41)	0.373	197.80	0.268	323.70	0.308	521.50	SOUTH
in space: 45SSW Perim Spc (T.SSW36)							
45SSW Wall (T.SW37.E42)	0.410	215.60	0.268	304.50	0.327	520.10	SOUTH
in space: 45SW Perim Spc (T.SW37)							
45SSW Wall (T.39.E46)	0.000	0.00	0.268	199.90	0.268	199.90	SOUTH
in space: 45Plnm (T.39)							
GSSW Wall (G.SSW4.E6)	0.000	0.00	0.307	367.50	0.307	367.50	SOUTH
in space: GSSW Perim Spc (G.SSW4)							
70SSW Wall (G.W2.E5)	0.000	0.00	0.268	97.20	0.268	97.20	SOUTH
in space: 70West Perim Spc (G.W2)							

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70SSW Wall (G.SW3.E8)	0.373	150.91	0.268	132.05	0.324	282.96	SOUTH
in space: 70SW Perim Spc (G.SW3)							
GSSW Wall (G.18.E27)	0.000	0.00	0.268	40.10	0.268	40.10	SOUTH
in space: GPlnm (G.18)							
70SSW Wall (G.S4.E10)	0.373	305.42	0.268	206.50	0.331	511.92	SOUTH
in space: 70South Perim Spc (G.S4)							
1MSSW Wall (G.SW4.E8)	0.000	0.00	0.307	306.80	0.307	306.80	SOUTH
in space: 1MSW Perim Spc (G.SW4)							
1519SSW Wall (T.S38.E55)	0.408	250.00	0.268	139.20	0.358	389.20	SOUTH
in space: 1519South Perim Spc (T.S38)							
10ASSW Wall (G.10.E16)	0.000	0.00	0.268	2529.37	0.268	2529.37	SOUTH
in space: 10APlnm (G.10)							
10ASSW Wall (G.10.E18)	0.000	0.00	0.268	3006.49	0.268	3006.49	SOUTH
in space: 10APlnm (G.10)							
70SSW Wall (G.SE7.E15)	0.410	183.60	0.268	3.78	0.408	187.38	SOUTH
in space: 70SE Perim Spc (G.SE7)							
1519SSW Wall (T.SSE39.E58)	0.373	224.35	0.268	367.15	0.308	591.50	SOUTH
in space: 1519SSE Perim Spc (T.SSE39)							
70SSW Wall (G.12.E18)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 70Plnm (G.12)							
70SSW Wall (G.12.E20)	0.000	0.00	0.268	147.20	0.268	147.20	SOUTH
in space: 70Plnm (G.12)							
1519SSW Wall (T.W40.E59)	0.373	158.77	0.268	259.83	0.308	418.60	SOUTH
in space: 1519West Perim Spc (T.W40)							
70SSW Wall (G.12.E22)	0.000	0.00	0.268	34.70	0.268	34.70	SOUTH
in space: 70Plnm (G.12)							
46MCSSW Wall (T.S35.E40)	0.000	0.00	0.268	459.90	0.268	459.90	SOUTH
in space: 46MCSouth Perim Spc (T.S35)							
46MCSSW Wall (T.SSW36.E41)	0.000	0.00	0.268	670.50	0.268	670.50	SOUTH
in space: 46MCSSW Perim Spc (T.SSW36)							
46MCSSW Wall (T.SW37.E42)	0.000	0.00	0.268	668.70	0.268	668.70	SOUTH
in space: 46MCSSW Perim Spc (T.SW37)							
46MCSSW Wall (T.39.E46)	0.000	0.00	0.268	199.90	0.268	199.90	SOUTH
in space: 46MCPlnm (T.39)							
1519SSW Wall (T.42.E63)	0.000	0.00	0.268	109.26	0.268	109.26	SOUTH
in space: 1519Plnm (T.42)							
1519SSW Wall (T.42.E65)	0.000	0.00	0.268	129.87	0.268	129.87	SOUTH
in space: 1519Plnm (T.42)							
1MSSW Wall (G.SSW5.E9)	0.000	0.00	0.268	1151.20	0.268	1151.20	SOUTH
in space: 1MSSW Perim Spc (G.SSW5)							
7179SSW Wall (M.W14.E33)	0.000	0.00	0.268	874.80	0.268	874.80	SOUTH
in space: 7179West Perim Spc (M.W14)							
7179SSW Wall (M.SW15.E36)	0.373	1358.20	0.268	1188.44	0.324	2546.64	SOUTH
in space: 7179SW Perim Spc (M.SW15)							
1519SSW Wall (T.42.E67)	0.000	0.00	0.268	50.04	0.268	50.04	SOUTH
in space: 1519Plnm (T.42)							
7179SSW Wall (M.S16.E38)	0.373	2748.82	0.268	1858.46	0.331	4607.28	SOUTH
in space: 7179South Perim Spc (M.S16)							
47SSW Wall (G.W2.E5)	0.000	0.00	0.268	97.20	0.268	97.20	SOUTH
in space: 47West Perim Spc (G.W2)							
47SSW Wall (G.SW3.E8)	0.410	183.60	0.268	120.42	0.354	304.02	SOUTH
in space: 47SW Perim Spc (G.SW3)							
47SSW Wall (G.SSW4.E9)	0.373	214.56	0.268	187.74	0.324	402.30	SOUTH
in space: 47SSW Perim Spc (G.SSW4)							
GSSW Wall (G.SSW12.E17)	0.572	1537.48	0.268	58.52	0.561	1596.00	SOUTH
in space: GSSW Perim Spc (G.SSW12)							
7179SSW Wall (M.SE19.E43)	0.410	1652.39	0.268	34.03	0.408	1686.42	SOUTH
in space: 7179SE Perim Spc (M.SE19)							

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47SSW Wall (G.SSE5.E11)	0.408	216.00	0.268	59.94	0.378	275.94	SOUTH
in space: 47SSE Perim Spc (G.SSE5)							
7179SSW Wall (M.24.E46)	0.000	0.00	0.268	162.00	0.268	162.00	SOUTH
in space: 7179Plnm (M.24)							
7179SSW Wall (M.24.E48)	0.000	0.00	0.268	1324.80	0.268	1324.80	SOUTH
in space: 7179Plnm (M.24)							
10MSSW Wall (G.SSW2.E2)	0.000	0.00	0.268	1706.15	0.268	1706.15	SOUTH
in space: 10MSSW Perim Spc (G.SSW2)							
7179SSW Wall (M.24.E50)	0.000	0.00	0.268	312.30	0.268	312.30	SOUTH
in space: 7179Plnm (M.24)							
25SSW Wall (M.SSW19.E20)	0.000	0.00	0.307	857.50	0.307	857.50	SOUTH
in space: 25SSW Perim Spc (M.SSW19)							
6MCSSW Wall (G.SSW6.E10)	0.373	2080.00	0.268	3100.40	0.310	5180.40	SOUTH
in space: 6MCSSW Perim Spc (G.SSW6)							
2026SSW Wall (G.WNW7.E4)	0.412	171.20	0.268	280.30	0.323	451.50	SOUTH
in space: 2026WNW Perim Spc (G.WNW7)							
10MSSW Wall (G.SSW7.E6)	0.000	0.00	0.268	4208.51	0.268	4208.51	SOUTH
in space: 10MSSW Perim Spc (G.SSW7)							
6MCSSW Wall (G.11.E12)	0.000	0.00	0.268	287.80	0.268	287.80	SOUTH
in space: 6MCPlnm (G.11)							
47SSW Wall (G.13.E19)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 47Plnm (G.13)							
47SSW Wall (G.13.E21)	0.000	0.00	0.268	181.90	0.268	181.90	SOUTH
in space: 47Plnm (G.13)							
8087SSW Wall (M.W14.E33)	0.000	0.00	0.268	777.60	0.268	777.60	SOUTH
in space: 8087West Perim Spc (M.W14)							
8087SSW Wall (M.SW15.E36)	0.373	1207.29	0.268	1056.39	0.324	2263.68	SOUTH
in space: 8087SW Perim Spc (M.SW15)							
2026SSW Wall (G.NNE8.E7)	0.373	151.07	0.268	247.23	0.308	398.30	SOUTH
in space: 2026NNE Perim Spc (G.NNE8)							
8087SSW Wall (M.S16.E38)	0.373	2443.39	0.268	1651.97	0.331	4095.36	SOUTH
in space: 8087South Perim Spc (M.S16)							
10MSSW Wall (G.N8.E10)	0.000	0.00	0.268	1834.48	0.268	1834.48	SOUTH
in space: 10MNorth Perim Spc (G.N8)							
2026SSW Wall (G.SW11.E10)	0.409	220.00	0.268	198.60	0.342	418.60	SOUTH
in space: 2026SW Perim Spc (G.SW11)							
2026SSW Wall (G.SSW12.E12)	0.373	236.30	0.268	386.70	0.308	623.00	SOUTH
in space: 2026SSW Perim Spc (G.SSW12)							
25SSW Wall (M.W20.E22)	0.000	0.00	0.307	532.00	0.307	532.00	SOUTH
in space: 25West Perim Spc (M.W20)							
8087SSW Wall (M.SE19.E43)	0.410	1468.79	0.268	30.25	0.408	1499.04	SOUTH
in space: 8087SE Perim Spc (M.SE19)							
2026SSW Wall (G.S13.E14)	0.410	210.00	0.268	147.70	0.351	357.70	SOUTH
in space: 2026South Perim Spc (G.S13)							
8087SSW Wall (M.24.E46)	0.000	0.00	0.268	144.00	0.268	144.00	SOUTH
in space: 8087Plnm (M.24)							
8087SSW Wall (M.24.E48)	0.000	0.00	0.268	1177.60	0.268	1177.60	SOUTH
in space: 8087Plnm (M.24)							
2026SSW Wall (G.14.E16)	0.000	0.00	0.268	109.26	0.268	109.26	SOUTH
in space: 2026Plnm (G.14)							
8087SSW Wall (M.24.E50)	0.000	0.00	0.268	277.60	0.268	277.60	SOUTH
in space: 8087Plnm (M.24)							
4856SSW Wall (M.W15.E32)	0.000	0.00	0.268	874.80	0.268	874.80	SOUTH
in space: 4856West Perim Spc (M.W15)							
4856SSW Wall (M.SW16.E35)	0.410	1652.39	0.268	1083.79	0.354	2736.18	SOUTH
in space: 4856SW Perim Spc (M.SW16)							
4856SSW Wall (M.SSW17.E36)	0.373	1931.04	0.268	1689.66	0.324	3620.70	SOUTH
in space: 4856SSW Perim Spc (M.SSW17)							

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Description	Area	Perimeter	Volume	Area	Volume	Area	Direction
2026SSW Wall (G.14.E18)	0.000	0.00	0.268	179.91	0.268	179.91	SOUTH
in space: 2026Plnm (G.14)							
4856SSW Wall (M.SSE18.E38)	0.408	1943.99	0.268	539.47	0.378	2483.46	SOUTH
in space: 4856SSE Perim Spc (M.SSE18)							
25SSW Wall (M.SSW21.E23)	0.572	4784.68	0.268	251.82	0.557	5036.50	SOUTH
in space: 25SSW Perim Spc (M.SSW21)							
Exterior Wall 891	0.572	1682.00	0.268	118.00	0.552	1800.00	SOUTH
in space: 25SSW Perim Spc (M.SSW21)							
88SSW Wall (T.W26.E61)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 88West Perim Spc (T.W26)							
88SSW Wall (T.SW27.E64)	0.373	150.91	0.268	215.89	0.311	366.80	SOUTH
in space: 88SW Perim Spc (T.SW27)							
11MCSSW Wall (G.NNE1.E2)	0.000	0.00	0.268	1438.59	0.268	1438.59	SOUTH
in space: 11MCNNE Perim Spc (G.NNE1)							
88SSW Wall (T.S28.E66)	0.373	305.42	0.268	358.18	0.316	663.60	SOUTH
in space: 88South Perim Spc (T.S28)							
6MCSSW Wall (G.11.E18)	0.000	0.00	0.268	222.40	0.268	222.40	SOUTH
in space: 6MCPlnm (G.11)							
2026SSW Wall (M.WNW21.E24)	0.373	856.24	0.268	756.26	0.324	1612.50	SOUTH
in space: 2026WNW Perim Spc (M.WNW21)							
4856SSW Wall (M.26.E45)	0.000	0.00	0.268	162.00	0.268	162.00	SOUTH
in space: 4856Plnm (M.26)							
4856SSW Wall (M.26.E47)	0.000	0.00	0.268	1637.10	0.268	1637.10	SOUTH
in space: 4856Plnm (M.26)							
88SSW Wall (T.SE31.E71)	0.410	183.60	0.268	59.30	0.376	242.90	SOUTH
in space: 88SE Perim Spc (T.SE31)							
Exterior Wall 893	0.000	0.00	0.268	1080.00	0.268	1080.00	SOUTH
in space: 6MC Top Spc							
88SSW Wall (T.36.E74)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 88Plnm (T.36)							
88SSW Wall (T.36.E76)	0.000	0.00	0.268	147.20	0.268	147.20	SOUTH
in space: 88Plnm (T.36)							
11MCSSW Wall (G.SW3.E6)	0.000	0.00	0.268	445.56	0.268	445.56	SOUTH
in space: 11MCWSW Perim Spc (G.SW3)							
88SSW Wall (T.36.E78)	0.000	0.00	0.268	34.70	0.268	34.70	SOUTH
in space: 88Plnm (T.36)							
2026SSW Wall (M.NNE22.E27)	0.373	755.35	0.268	667.15	0.324	1422.50	SOUTH
in space: 2026NNE Perim Spc (M.NNE22)							
11MCSSW Wall (G.SSW4.E8)	0.000	0.00	0.268	264.26	0.268	264.26	SOUTH
in space: 11MCSSW Perim Spc (G.SSW4)							
2026SSW Wall (M.SW25.E30)	0.409	1100.00	0.268	395.00	0.372	1495.00	SOUTH
in space: 2026SW Perim Spc (M.SW25)							
2026SSW Wall (M.SSW26.E32)	0.373	1181.48	0.268	1043.52	0.324	2225.00	SOUTH
in space: 2026SSW Perim Spc (M.SSW26)							
11MCSSW Wall (G.WSW5.E10)	0.000	0.00	0.268	1000.14	0.268	1000.14	SOUTH
in space: 11MCWSW Perim Spc (G.WSW5)							
5765SSW Wall (M.W15.E32)	0.000	0.00	0.268	874.80	0.268	874.80	SOUTH
in space: 5765West Perim Spc (M.W15)							
5765SSW Wall (M.SW16.E35)	0.410	1652.39	0.268	1083.79	0.354	2736.18	SOUTH
in space: 5765SW Perim Spc (M.SW16)							
5765SSW Wall (M.SSW17.E36)	0.373	1931.04	0.268	1689.66	0.324	3620.70	SOUTH
in space: 5765SSW Perim Spc (M.SSW17)							
2026SSW Wall (M.S27.E34)	0.410	1050.00	0.268	227.50	0.384	1277.50	SOUTH
in space: 2026South Perim Spc (M.S27)							
5765SSW Wall (M.SSE18.E38)	0.408	1943.99	0.268	539.47	0.378	2483.46	SOUTH
in space: 5765SSE Perim Spc (M.SSE18)							
89SSW Wall (G.W4.E8)	0.000	0.00	0.268	252.00	0.268	252.00	SOUTH
in space: 89West Perim Spc (G.W4)							

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89SSW Wall (G.SW5.E11)	0.373	377.28	0.268	356.32	0.322	733.60	SOUTH
in space: 89SW Perim Spc (G.SW5)							
2026SSW Wall (M.28.E36)	0.000	0.00	0.268	546.30	0.268	546.30	SOUTH
in space: 2026Plnm (M.28)							
2026SSW Wall (M.28.E38)	0.000	0.00	0.268	899.55	0.268	899.55	SOUTH
in space: 2026Plnm (M.28)							
89SSW Wall (G.S6.E14)	0.373	766.56	0.268	560.64	0.329	1327.20	SOUTH
in space: 89South Perim Spc (G.S6)							
25SSW Wall (M.SSW24.E26)	0.952	187.00	0.307	2315.50	0.355	2502.50	SOUTH
in space: 25SSW Perim Spc (M.SSW24)							
11MCSSW Wall (G.SE6.E12)	0.000	0.00	0.268	658.86	0.268	658.86	SOUTH
in space: 11MCSE Perim Spc (G.SE6)							
89SSW Wall (G.11.E18)	0.000	0.00	0.268	36.00	0.268	36.00	SOUTH
in space: 89Plnm (G.11)							
89SSW Wall (G.11.E20)	0.000	0.00	0.268	294.40	0.268	294.40	SOUTH
in space: 89Plnm (G.11)							
GSSW Wall (G.SSW9.E13)	0.952	84.00	0.307	988.50	0.358	1072.50	SOUTH
in space: GSSW Perim Spc (G.SSW9)							
5765SSW Wall (M.26.E45)	0.000	0.00	0.268	162.00	0.268	162.00	SOUTH
in space: 5765Plnm (M.26)							
5765SSW Wall (M.26.E47)	0.000	0.00	0.268	1637.10	0.268	1637.10	SOUTH
in space: 5765Plnm (M.26)							
11DBSSW Wall (G.WNW1.E2)	0.000	0.00	0.268	2126.45	0.268	2126.45	SOUTH
in space: 11DBWNW Perim Spc (G.WNW1)							
2026SSW Wall (T.WNW35.E44)	0.373	171.25	0.268	280.25	0.308	451.50	SOUTH
in space: 2026WNW Perim Spc (T.WNW35)							
GSSW Wall (G.W5.E8)	0.000	0.00	0.307	228.00	0.307	228.00	SOUTH
in space: GWest Perim Spc (G.W5)							
89DBSSW Wall (G.WNW1.E2)	0.393	1250.00	0.268	482.50	0.358	1732.50	SOUTH
in space: 89DBWNW Perim Spc (G.WNW1)							
8ASSW Wall (G.WSW2.E3)	0.000	0.00	0.268	1456.80	0.268	1456.80	SOUTH
in space: 8AWSW Perim Spc (G.WSW2)							
2026SSW Wall (T.NNE36.E47)	0.373	151.07	0.268	247.23	0.308	398.30	SOUTH
in space: 2026NNE Perim Spc (T.NNE36)							
89DBSSW Wall (G.2.E6)	0.000	0.00	0.268	110.00	0.268	110.00	SOUTH
in space: 89DBPlnm (G.2)							
1519SSW Wall (G.WNW6.E2)	0.412	513.60	0.268	453.90	0.344	967.50	SOUTH
in space: 1519WNW Perim Spc (G.WNW6)							
2026SSW Wall (T.SW39.E50)	0.409	220.00	0.268	198.60	0.342	418.60	SOUTH
in space: 2026SW Perim Spc (T.SW39)							
66SSW Wall (T.W28.E58)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 66West Perim Spc (T.W28)							
66SSW Wall (T.SW29.E61)	0.410	183.60	0.268	210.50	0.334	394.10	SOUTH
in space: 66SW Perim Spc (T.SW29)							
66SSW Wall (T.SSW30.E62)	0.373	214.56	0.268	306.94	0.311	521.50	SOUTH
in space: 66SSW Perim Spc (T.SSW30)							
2026SSW Wall (T.SSW40.E52)	0.373	236.30	0.268	386.70	0.308	623.00	SOUTH
in space: 2026SSW Perim Spc (T.SSW40)							
66SSW Wall (T.SSE31.E64)	0.408	216.00	0.268	141.70	0.353	357.70	SOUTH
in space: 66SSE Perim Spc (T.SSE31)							
90SSW Wall (G.W4.E8)	0.373	129.60	0.268	122.40	0.322	252.00	SOUTH
in space: 90West Perim Spc (G.W4)							
90SSW Wall (G.SW5.E11)	0.373	377.28	0.268	356.32	0.322	733.60	SOUTH
in space: 90SW Perim Spc (G.SW5)							
8ASSW Wall (G.WSW2.E5)	0.000	0.00	0.268	716.40	0.268	716.40	SOUTH
in space: 8AWSW Perim Spc (G.WSW2)							
2026SSW Wall (T.S41.E54)	0.410	210.00	0.268	147.70	0.351	357.70	SOUTH
in space: 2026South Perim Spc (T.S41)							

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90SSW Wall (G.S6.E14)	0.373	766.56	0.268	560.64	0.329	1327.20	SOUTH
in space: 90South Perim Spc (G.S6)							
2026SSW Wall (T.42.E56)	0.000	0.00	0.268	109.26	0.268	109.26	SOUTH
in space: 2026Plnm (T.42)							
2026SSW Wall (T.42.E58)	0.000	0.00	0.268	179.91	0.268	179.91	SOUTH
in space: 2026Plnm (T.42)							
90SSW Wall (G.11.E18)	0.000	0.00	0.268	36.00	0.268	36.00	SOUTH
in space: 90Plnm (G.11)							
90SSW Wall (G.11.E20)	0.000	0.00	0.268	294.40	0.268	294.40	SOUTH
in space: 90Plnm (G.11)							
GSSW Wall (G.ESE11.E15)	0.572	289.72	0.268	11.03	0.561	300.75	SOUTH
in space: GESE Perim Spc (G.ESE11)							
66SSW Wall (T.39.E71)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 66Plnm (T.39)							
66SSW Wall (T.39.E73)	0.000	0.00	0.268	181.90	0.268	181.90	SOUTH
in space: 66Plnm (T.39)							
1519SSW Wall (G.NNE7.E5)	0.373	453.21	0.268	400.29	0.324	853.50	SOUTH
in space: 1519NNE Perim Spc (G.NNE7)							
25SSW Wall (G.SSW3.E5)	0.000	0.00	0.307	428.75	0.307	428.75	SOUTH
in space: 25SSW Perim Spc (G.SSW3)							
25SSW Wall (G.W4.E7)	0.000	0.00	0.268	266.00	0.268	266.00	SOUTH
in space: 25West Perim Spc (G.W4)							
27MCSSW Wall (G.WNW7.E4)	0.000	0.00	0.268	580.50	0.268	580.50	SOUTH
in space: 27MCWNW Perim Spc (G.WNW7)							
25SSW Wall (G.SSW5.E8)	0.572	2392.34	0.268	125.91	0.557	2518.25	SOUTH
in space: 25SSW Perim Spc (G.SSW5)							
1519SSW Wall (G.S10.E9)	0.408	750.00	0.268	84.00	0.394	834.00	SOUTH
in space: 1519South Perim Spc (G.S10)							
27MCSSW Wall (G.NNE8.E7)	0.000	0.00	0.268	512.10	0.268	512.10	SOUTH
in space: 27MCNNE Perim Spc (G.NNE8)							
91SSW Wall (G.W4.E7)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 91West Perim Spc (G.W4)							
91SSW Wall (G.SW5.E10)	0.000	0.00	0.268	366.80	0.268	366.80	SOUTH
in space: 91SW Perim Spc (G.SW5)							
67MCSSW Wall (G.W2.E5)	0.000	0.00	0.268	252.00	0.268	252.00	SOUTH
in space: 67MCWest Perim Spc (G.W2)							
91SSW Wall (G.S6.E12)	0.000	0.00	0.268	663.60	0.268	663.60	SOUTH
in space: 91South Perim Spc (G.S6)							
91SSW Wall (G.ESE11.E13)	0.000	0.00	0.268	242.90	0.268	242.90	SOUTH
in space: 91ESE Perim Spc (G.ESE11)							
67MCSSW Wall (G.SW3.E8)	0.000	0.00	0.268	788.20	0.268	788.20	SOUTH
in space: 67MCSW Perim Spc (G.SW3)							
67MCSSW Wall (G.SSW4.E9)	0.000	0.00	0.268	1043.00	0.268	1043.00	SOUTH
in space: 67MCSSW Perim Spc (G.SSW4)							
91SSW Wall (G.12.E17)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 91Plnm (G.12)							
91SSW Wall (G.12.E19)	0.000	0.00	0.268	147.20	0.268	147.20	SOUTH
in space: 91Plnm (G.12)							
8ASSW Wall (G.SW9.E12)	0.000	0.00	0.268	355.20	0.268	355.20	SOUTH
in space: 8ASW Perim Spc (G.SW9)							
91SSW Wall (G.12.E21)	0.000	0.00	0.268	34.70	0.268	34.70	SOUTH
in space: 91Plnm (G.12)							
67MCSSW Wall (G.SSE5.E11)	0.000	0.00	0.268	715.40	0.268	715.40	SOUTH
in space: 67MCSSE Perim Spc (G.SSE5)							
27MCSSW Wall (G.SW11.E10)	0.000	0.00	0.268	538.20	0.268	538.20	SOUTH
in space: 27MCSW Perim Spc (G.SW11)							
27MCSSW Wall (G.SSW12.E12)	0.000	0.00	0.268	801.00	0.268	801.00	SOUTH
in space: 27MCSSW Perim Spc (G.SSW12)							

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8ASSW Wall (G.WSW10.E13)	0.000	0.00	0.268	306.00	0.268	306.00	SOUTH
in space: 8AWSW Perim Spc (G.WSW10)							
27MCSSW Wall (G.S13.E14)	0.000	0.00	0.268	459.90	0.268	459.90	SOUTH
in space: 27MCSouth Perim Spc (G.S13)							
1519SSW Wall (G.SSE11.E12)	0.373	673.04	0.268	594.46	0.324	1267.50	SOUTH
in space: 1519SSE Perim Spc (G.SSE11)							
1519SSW Wall (G.W12.E13)	0.373	476.31	0.268	420.69	0.324	897.00	SOUTH
in space: 1519West Perim Spc (G.W12)							
1519SSW Wall (G.14.E17)	0.000	0.00	0.268	327.78	0.268	327.78	SOUTH
in space: 1519Plnm (G.14)							
1519SSW Wall (G.14.E19)	0.000	0.00	0.268	389.61	0.268	389.61	SOUTH
in space: 1519Plnm (G.14)							
92SSW Wall (G.W4.E7)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 92West Perim Spc (G.W4)							
92SSW Wall (G.SW5.E10)	0.000	0.00	0.268	366.80	0.268	366.80	SOUTH
in space: 92SW Perim Spc (G.SW5)							
8ASSW Wall (G.SSW11.E15)	0.000	0.00	0.268	232.80	0.268	232.80	SOUTH
in space: 8ASSW Perim Spc (G.SSW11)							
92SSW Wall (G.S6.E12)	0.000	0.00	0.268	663.60	0.268	663.60	SOUTH
in space: 92South Perim Spc (G.S6)							
92SSW Wall (G.ESE11.E13)	0.000	0.00	0.268	242.90	0.268	242.90	SOUTH
in space: 92ESE Perim Spc (G.ESE11)							
1519SSW Wall (G.14.E21)	0.000	0.00	0.268	150.12	0.268	150.12	SOUTH
in space: 1519Plnm (G.14)							
68SSW Wall (G.ESE3.E8)	0.000	0.00	0.268	212.80	0.268	212.80	SOUTH
in space: 68ESE Perim Spc (G.ESE3)							
92SSW Wall (G.12.E17)	0.000	0.00	0.268	18.00	0.268	18.00	SOUTH
in space: 92Plnm (G.12)							
92SSW Wall (G.12.E19)	0.000	0.00	0.268	147.20	0.268	147.20	SOUTH
in space: 92Plnm (G.12)							
28SSW Wall (G.S9.E8)	0.410	200.90	0.268	156.80	0.348	357.70	SOUTH
in space: 28South Perim Spc (G.S9)							
92SSW Wall (G.12.E21)	0.000	0.00	0.268	34.70	0.268	34.70	SOUTH
in space: 92Plnm (G.12)							
68SSW Wall (G.ESE3.E10)	0.000	0.00	0.268	49.00	0.268	49.00	SOUTH
in space: 68ESE Perim Spc (G.ESE3)							
28SSW Wall (G.SSW10.E9)	0.411	197.80	0.268	323.70	0.322	521.50	SOUTH
in space: 28SSW Perim Spc (G.SSW10)							
28SSW Wall (G.SW11.E10)	0.410	215.60	0.268	304.50	0.327	520.10	SOUTH
in space: 28SW Perim Spc (G.SW11)							
68SSW Wall (G.W4.E13)	0.000	0.00	0.268	126.00	0.268	126.00	SOUTH
in space: 68West Perim Spc (G.W4)							
68SSW Wall (G.SW5.E16)	0.373	188.64	0.268	178.16	0.322	366.80	SOUTH
in space: 68SW Perim Spc (G.SW5)							
28SSW Wall (G.13.E14)	0.000	0.00	0.268	199.90	0.268	199.90	SOUTH
in space: 28Plnm (G.13)							
68SSW Wall (G.S6.E18)	0.373	268.20	0.268	253.30	0.322	521.50	SOUTH
in space: 68South Perim Spc (G.S6)							
Exterior Wall 887	0.572	841.00	0.268	59.00	0.552	900.00	SOUTH
in space: 25SSW Perim Spc (G.SSW5)							
6MCSSW Wall (G.WSW1.E2)	0.000	0.00	0.307	4003.29	0.307	4003.29	SOUTH
in space: 6MCWSW Perim Spc (G.WSW1)							
1MSSW Wall (G.SW3.E6)	0.985	52.50	0.307	530.28	0.368	582.78	SOUTH
in space: 1MSW Perim Spc (G.SW3)							
1MWest Wall (G.SW3.E5)	0.972	225.00	0.307	166.28	0.690	391.28	SOUTH-WEST
in space: 1MSW Perim Spc (G.SW3)							
GWest Wall (G.W8.E12)	0.964	450.00	0.307	283.65	0.710	733.65	SOUTH-WEST
in space: GWest Perim Spc (G.W8)							

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25West Wall (T.W39.E40)	0.963	542.50	0.307	313.43	0.723	855.92	SOUTH-WEST
in space: 25West Perim Spc (T.W39)							
6MCWest Wall (G.WSW1.E1)	0.000	0.00	0.307	1760.76	0.307	1760.76	SOUTH-WEST
in space: 6MCWSW Perim Spc (G.WSW1)							
GWest Wall (G.18.E22)	0.000	0.00	0.268	97.82	0.268	97.82	SOUTH-WEST
in space: GPlnm (G.18)							
25West Wall (G.W7.E10)	0.963	542.50	0.307	313.43	0.723	855.92	SOUTH-WEST
in space: 25West Perim Spc (G.W7)							
25West Wall (M.W23.E25)	0.963	1085.00	0.307	626.85	0.723	1711.85	SOUTH-WEST
in space: 25West Perim Spc (M.W23)							
6MCWest Wall (G.11.E17)	0.000	0.00	0.268	97.82	0.268	97.82	SOUTH-WEST
in space: 6MCPlnm (G.11)							
Exterior Wall 886	0.000	0.00	0.268	2988.00	0.268	2988.00	WEST
in space: 93MERSpace							
6MCWNW Wall (G.N2.E4)	0.000	0.00	0.268	1036.82	0.268	1036.82	WEST
in space: 6MCNorth Perim Spc (G.N2)							
10AWN Wall (G.N8.E9)	0.373	337.61	0.268	144.69	0.342	482.30	WEST
in space: 10ANorth Perim Spc (G.N8)							
25WNW Wall (G.W4.E6)	0.000	0.00	0.307	448.88	0.307	448.88	WEST
in space: 25West Perim Spc (G.W4)							
2026WNW Wall (G.SW11.E11)	0.373	97.56	0.268	120.84	0.315	218.40	WEST
in space: 2026SW Perim Spc (G.SW11)							
2936WNW Wall (M.SW24.E27)	0.373	780.50	0.268	442.54	0.335	1223.04	WEST
in space: 2936SW Perim Spc (M.SW24)							
70WNW Wall (G.12.E27)	0.000	0.00	0.268	27.50	0.268	27.50	WEST
in space: 70Plnm (G.12)							
5765WNW Wall (M.26.E44)	0.000	0.00	0.268	1112.40	0.268	1112.40	WEST
in space: 5765Plnm (M.26)							
7179WNW Wall (M.NNW13.E29)	0.415	1263.59	0.268	72.91	0.407	1336.50	WEST
in space: 7179NNW Perim Spc (M.NNW13)							
2936WNW Wall (M.WNW25.E28)	0.373	1671.07	0.268	947.49	0.335	2618.56	WEST
in space: 2936WNW Perim Spc (M.WNW25)							
7179WNW Wall (M.NNW13.E31)	0.408	1943.99	0.268	136.09	0.399	2080.08	WEST
in space: 7179NNW Perim Spc (M.NNW13)							
5765WNW Wall (M.26.E46)	0.000	0.00	0.268	268.20	0.268	268.20	WEST
in space: 5765Plnm (M.26)							
2936WNW Wall (M.26.E29)	0.000	0.00	0.268	1401.60	0.268	1401.60	WEST
in space: 2936Plnm (M.26)							
7179WNW Wall (M.W14.E34)	0.373	2292.66	0.268	1357.20	0.334	3649.86	WEST
in space: 7179West Perim Spc (M.W14)							
7179WNW Wall (M.SW15.E35)	0.373	909.73	0.268	538.55	0.334	1448.28	WEST
in space: 7179SW Perim Spc (M.SW15)							
10AWN Wall (G.N8.E11)	0.373	16.17	0.268	6.93	0.342	23.10	WEST
in space: 10ANorth Perim Spc (G.N8)							
25WNW Wall (M.W20.E21)	0.000	0.00	0.307	897.75	0.307	897.75	WEST
in space: 25West Perim Spc (M.W20)							
1519WNW Wall (G.W12.E14)	0.373	853.67	0.268	511.33	0.334	1365.00	WEST
in space: 1519West Perim Spc (G.W12)							
3744WNW Wall (M.NNW18.E17)	0.405	2744.00	0.268	282.24	0.393	3026.24	WEST
in space: 3744NNW Perim Spc (M.NNW18)							
5765WNW Wall (M.26.E52)	0.000	0.00	0.268	196.20	0.268	196.20	WEST
in space: 5765Plnm (M.26)							
2026WNW Wall (G.14.E15)	0.000	0.00	0.268	69.48	0.268	69.48	WEST
in space: 2026Plnm (G.14)							
66WNW Wall (T.NNW27.E54)	0.407	237.60	0.268	90.00	0.369	327.60	WEST
in space: 66NNW Perim Spc (T.NNW27)							
1519WNW Wall (G.WNW13.E15)	0.373	626.65	0.268	375.35	0.334	1002.00	WEST
in space: 1519WNW Perim Spc (G.WNW13)							

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66WNW Wall (T.NNW27.E56)	0.373	73.95	0.268	78.65	0.319	152.60	WEST
in space: 66NNW Perim Spc (T.NNW27)							
7179WNW Wall (M.24.E45)	0.000	0.00	0.268	1061.10	0.268	1061.10	WEST
in space: 7179Plnm (M.24)							
2026WNW Wall (G.14.E17)	0.000	0.00	0.268	88.20	0.268	88.20	WEST
in space: 2026Plnm (G.14)							
7179WNW Wall (M.24.E47)	0.000	0.00	0.268	268.20	0.268	268.20	WEST
in space: 7179Plnm (M.24)							
1519WNW Wall (G.14.E16)	0.000	0.00	0.268	208.44	0.268	208.44	WEST
in space: 1519Plnm (G.14)							
66WNW Wall (T.W28.E59)	0.373	260.51	0.268	277.09	0.319	537.60	WEST
in space: 66West Perim Spc (T.W28)							
66WNW Wall (T.SW29.E60)	0.373	101.08	0.268	107.52	0.319	208.60	WEST
in space: 66SW Perim Spc (T.SW29)							
GWNW Wall (G.NW2.E4)	0.572	463.85	0.268	17.69	0.561	481.54	WEST
in space: GNW Perim Spc (G.NW2)							
1519WNW Wall (G.14.E18)	0.000	0.00	0.268	426.06	0.268	426.06	WEST
in space: 1519Plnm (G.14)							
Exterior Wall 896	0.000	0.00	0.268	1080.00	0.268	1080.00	WEST
in space: 6MC Top Spc							
10AWNW Wall (G.10.E15)	0.000	0.00	0.268	1608.46	0.268	1608.46	WEST
in space: 10APlnm (G.10)							
7179WNW Wall (M.24.E55)	0.000	0.00	0.268	247.50	0.268	247.50	WEST
in space: 7179Plnm (M.24)							
2026WNW Wall (M.WNW21.E23)	0.373	1207.02	0.268	722.98	0.334	1930.00	WEST
in space: 2026WNW Perim Spc (M.WNW21)							
8087WNW Wall (M.NNW13.E29)	0.415	1123.19	0.268	64.81	0.407	1188.00	WEST
in space: 8087NNW Perim Spc (M.NNW13)							
3744WNW Wall (M.SW24.E27)	0.373	780.50	0.268	442.54	0.335	1223.04	WEST
in space: 3744SW Perim Spc (M.SW24)							
8087WNW Wall (M.NNW13.E31)	0.408	1727.99	0.268	120.97	0.399	1848.96	WEST
in space: 8087NNW Perim Spc (M.NNW13)							
3744WNW Wall (M.WNW25.E28)	0.373	1671.07	0.268	947.49	0.335	2618.56	WEST
in space: 3744WNW Perim Spc (M.WNW25)							
3744WNW Wall (M.26.E29)	0.000	0.00	0.268	1401.60	0.268	1401.60	WEST
in space: 3744Plnm (M.26)							
8087WNW Wall (M.W14.E34)	0.373	2037.92	0.268	1206.40	0.334	3244.32	WEST
in space: 8087West Perim Spc (M.W14)							
8087WNW Wall (M.SW15.E35)	0.373	808.65	0.268	478.71	0.334	1287.36	WEST
in space: 8087SW Perim Spc (M.SW15)							
8AWNW Wall (G.NW1.E1)	0.000	0.00	0.268	670.80	0.268	670.80	WEST
in space: 8ANW Perim Spc (G.NW1)							
66WNW Wall (T.39.E70)	0.000	0.00	0.268	123.60	0.268	123.60	WEST
in space: 66Plnm (T.39)							
10AWNW Wall (G.10.E17)	0.000	0.00	0.268	3287.76	0.268	3287.76	WEST
in space: 10APlnm (G.10)							
66WNW Wall (T.39.E72)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 66Plnm (T.39)							
1MWNW Wall (G.SW4.E7)	0.000	0.00	0.307	178.40	0.307	178.40	WEST
in space: 1MSW Perim Spc (G.SW4)							
45WNW Wall (T.NNW31.E33)	0.405	343.00	0.268	197.40	0.355	540.40	WEST
in space: 45NNW Perim Spc (T.NNW31)							
1519WNW Wall (M.WNW20.E24)	0.373	1207.02	0.268	722.98	0.334	1930.00	WEST
in space: 1519WNW Perim Spc (M.WNW20)							
2026WNW Wall (M.WNW23.E28)	0.373	1044.42	0.268	625.58	0.334	1670.00	WEST
in space: 2026WNW Perim Spc (M.WNW23)							
25WNW Wall (M.SSW21.E24)	0.000	0.00	0.307	878.50	0.307	878.50	WEST
in space: 25SSW Perim Spc (M.SSW21)							

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Description	Area	Perimeter	Volume	Area	Volume	Area	Direction
8087WNW Wall (M.24.E45)	0.000	0.00	0.268	943.20	0.268	943.20	WEST
in space: 8087Plnm (M.24)							
66WNW Wall (T.39.E78)	0.000	0.00	0.268	21.80	0.268	21.80	WEST
in space: 66Plnm (T.39)							
8087WNW Wall (M.24.E47)	0.000	0.00	0.268	238.40	0.268	238.40	WEST
in space: 8087Plnm (M.24)							
8AWNW Wall (G.WSW2.E4)	0.000	0.00	0.268	189.60	0.268	189.60	WEST
in space: 8AWSW Perim Spc (G.WSW2)							
67MCWNW Wall (G.NNW1.E1)	0.000	0.00	0.268	655.20	0.268	655.20	WEST
in space: 67MCNNW Perim Spc (G.NNW1)							
2026WNW Wall (M.SW25.E31)	0.373	487.81	0.268	292.19	0.334	780.00	WEST
in space: 2026SW Perim Spc (M.SW25)							
67MCWNW Wall (G.NNW1.E3)	0.000	0.00	0.268	305.20	0.268	305.20	WEST
in space: 67MCNNW Perim Spc (G.NNW1)							
10MWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	1948.22	0.268	1948.22	WEST
in space: 10MWNW Perim Spc (G.WNW1)							
25WNW Wall (G.SSW5.E9)	0.000	0.00	0.307	439.25	0.307	439.25	WEST
in space: 25SSW Perim Spc (G.SSW5)							
67MCWNW Wall (G.W2.E6)	0.000	0.00	0.268	1075.20	0.268	1075.20	WEST
in space: 67MCWest Perim Spc (G.W2)							
8087WNW Wall (M.24.E55)	0.000	0.00	0.268	220.00	0.268	220.00	WEST
in space: 8087Plnm (M.24)							
67MCWNW Wall (G.SW3.E7)	0.000	0.00	0.268	417.20	0.268	417.20	WEST
in space: 67MCSW Perim Spc (G.SW3)							
88WNW Wall (T.NNW25.E57)	0.415	140.40	0.268	52.10	0.375	192.50	WEST
in space: 88NNW Perim Spc (T.NNW25)							
10MWNW Wall (G.SSW2.E3)	0.000	0.00	0.268	242.07	0.268	242.07	WEST
in space: 10MSSW Perim Spc (G.SSW2)							
88WNW Wall (T.NNW25.E59)	0.408	216.00	0.268	83.60	0.369	299.60	WEST
in space: 88NNW Perim Spc (T.NNW25)							
2026WNW Wall (M.28.E35)	0.000	0.00	0.268	347.40	0.268	347.40	WEST
in space: 2026Plnm (M.28)							
45WNW Wall (T.SW37.E43)	0.373	97.56	0.268	120.84	0.315	218.40	WEST
in space: 45SW Perim Spc (T.SW37)							
88WNW Wall (T.W26.E62)	0.373	254.74	0.268	270.96	0.319	525.70	WEST
in space: 88West Perim Spc (T.W26)							
88WNW Wall (T.SW27.E63)	0.373	101.08	0.268	107.52	0.319	208.60	WEST
in space: 88SW Perim Spc (T.SW27)							
45WNW Wall (T.WNW38.E44)	0.373	208.88	0.268	258.72	0.315	467.60	WEST
in space: 45WNW Perim Spc (T.WNW38)							
45WNW Wall (T.39.E45)	0.000	0.00	0.268	175.20	0.268	175.20	WEST
in space: 45Plnm (T.39)							
GWNW Wall (G.18.E33)	0.000	0.00	0.268	199.40	0.268	199.40	WEST
in space: GPlnm (G.18)							
2026WNW Wall (M.28.E37)	0.000	0.00	0.268	441.00	0.268	441.00	WEST
in space: 2026Plnm (M.28)							
8AWNW Wall (G.WSW2.E7)	0.494	18.00	0.268	237.60	0.284	255.60	WEST
in space: 8AWSW Perim Spc (G.WSW2)							
46MCWNW Wall (T.NNW31.E33)	0.000	0.00	0.268	694.80	0.268	694.80	WEST
in space: 46MCNNW Perim Spc (T.NNW31)							
68WNW Wall (G.NNW1.E1)	0.403	280.00	0.268	7.70	0.400	287.70	WEST
in space: 68NNW Perim Spc (G.NNW1)							
GWNW Wall (G.SSW12.E19)	0.572	362.70	0.307	13.80	0.562	376.50	WEST
in space: GSSW Perim Spc (G.SSW12)							
68WNW Wall (G.NNW1.E3)	0.373	116.60	0.268	75.90	0.332	192.50	WEST
in space: 68NNW Perim Spc (G.NNW1)							
88WNW Wall (T.36.E73)	0.000	0.00	0.268	117.90	0.268	117.90	WEST
in space: 88Plnm (T.36)							

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1MWNN Wall (G.SSW5.E10)	0.000	0.00	0.307	227.60	0.307	227.60	WEST
in space: 1MSSW Perim Spc (G.SSW5)							
88WNN Wall (T.36.E75)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 88Plnm (T.36)							
10MWNN Wall (G.SSW7.E8)	0.000	0.00	0.268	2557.77	0.268	2557.77	WEST
in space: 10MSSW Perim Spc (G.SSW7)							
10MWNN Wall (G.N8.E9)	0.000	0.00	0.268	2009.47	0.268	2009.47	WEST
in space: 10MNorth Perim Spc (G.N8)							
2026WNN Wall (T.WNW35.E43)	0.373	241.40	0.268	299.00	0.315	540.40	WEST
in space: 2026WNN Perim Spc (T.WNW35)							
1MWNN Wall (G.NW1.E1)	0.000	0.00	0.268	540.80	0.268	540.80	WEST
in space: 1MNN Perim Spc (G.NW1)							
1519WNN Wall (M.W26.E37)	0.373	1422.78	0.268	852.22	0.334	2275.00	WEST
in space: 1519West Perim Spc (M.W26)							
1519WNN Wall (M.WNW27.E38)	0.373	1044.42	0.268	625.58	0.334	1670.00	WEST
in space: 1519WNN Perim Spc (M.WNW27)							
1519WNN Wall (M.28.E39)	0.000	0.00	0.268	347.40	0.268	347.40	WEST
in space: 1519Plnm (M.28)							
88WNN Wall (T.36.E83)	0.000	0.00	0.268	27.50	0.268	27.50	WEST
in space: 88Plnm (T.36)							
46MCWNN Wall (T.SW37.E43)	0.000	0.00	0.268	280.80	0.268	280.80	WEST
in space: 46MCSW Perim Spc (T.SW37)							
89WNN Wall (G.NNW1.E1)	0.404	504.00	0.268	35.00	0.396	539.00	WEST
in space: 89NNW Perim Spc (G.NNW1)							
46MCWNN Wall (T.WNW38.E44)	0.000	0.00	0.268	601.20	0.268	601.20	WEST
in space: 46MCWNN Perim Spc (T.WNW38)							
89WNN Wall (G.NNW1.E3)	0.411	336.00	0.268	49.00	0.393	385.00	WEST
in space: 89NNW Perim Spc (G.NNW1)							
68WNN Wall (G.W4.E14)	0.373	325.63	0.268	211.97	0.332	537.60	WEST
in space: 68West Perim Spc (G.W4)							
68WNN Wall (G.SW5.E15)	0.373	126.35	0.268	82.25	0.332	208.60	WEST
in space: 68SW Perim Spc (G.SW5)							
46MCWNN Wall (T.39.E45)	0.000	0.00	0.268	175.20	0.268	175.20	WEST
in space: 46MCPlnm (T.39)							
2026WNN Wall (T.WNW37.E48)	0.373	208.88	0.268	258.72	0.315	467.60	WEST
in space: 2026WNN Perim Spc (T.WNW37)							
10MWNN Wall (G.N8.E11)	0.000	0.00	0.268	96.24	0.268	96.24	WEST
in space: 10MNorth Perim Spc (G.N8)							
89WNN Wall (G.W4.E9)	0.373	673.31	0.268	438.29	0.332	1111.60	WEST
in space: 89West Perim Spc (G.W4)							
89WNN Wall (G.SW5.E10)	0.373	252.70	0.268	164.50	0.332	417.20	WEST
in space: 89SW Perim Spc (G.SW5)							
1519WNN Wall (M.28.E41)	0.000	0.00	0.268	710.10	0.268	710.10	WEST
in space: 1519Plnm (M.28)							
47WNN Wall (G.NNW1.E1)	0.407	237.60	0.268	15.12	0.399	252.72	WEST
in space: 47NNW Perim Spc (G.NNW1)							
68WNN Wall (G.11.E21)	0.000	0.00	0.268	117.90	0.268	117.90	WEST
in space: 68Plnm (G.11)							
2026WNN Wall (T.SW39.E51)	0.373	97.56	0.268	120.84	0.315	218.40	WEST
in space: 2026SW Perim Spc (T.SW39)							
68WNN Wall (G.11.E23)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 68Plnm (G.11)							
47WNN Wall (G.NNW1.E3)	0.373	73.95	0.268	43.77	0.334	117.72	WEST
in space: 47NNW Perim Spc (G.NNW1)							
89WNN Wall (G.11.E17)	0.000	0.00	0.268	235.80	0.268	235.80	WEST
in space: 89Plnm (G.11)							
8AWNN Wall (G.SW9.E11)	0.000	0.00	0.268	128.40	0.268	128.40	WEST
in space: 8ASW Perim Spc (G.SW9)							

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89WNW Wall (G.11.E19)	0.000	0.00	0.268	59.60	0.268	59.60	WEST
in space: 89Plnm (G.11)							
GWNW Wall (G.18.E24)	0.000	0.00	0.268	101.50	0.268	101.50	WEST
in space: GPlnm (G.18)							
47WNW Wall (G.W2.E6)	0.373	260.51	0.268	154.21	0.334	414.72	WEST
in space: 47West Perim Spc (G.W2)							
47WNW Wall (G.SW3.E7)	0.373	101.08	0.268	59.84	0.334	160.92	WEST
in space: 47SW Perim Spc (G.SW3)							
25WNW Wall (G.NW1.E1)	0.000	0.00	0.268	1183.00	0.268	1183.00	WEST
in space: 25NW Perim Spc (G.NW1)							
2026WNW Wall (T.42.E55)	0.000	0.00	0.268	69.48	0.268	69.48	WEST
in space: 2026Plnm (T.42)							
11MCWNW Wall (G.NNE1.E1)	0.000	0.00	0.268	914.82	0.268	914.82	WEST
in space: 11MCNNE Perim Spc (G.NNE1)							
89WNW Wall (G.11.E26)	0.000	0.00	0.268	55.00	0.268	55.00	WEST
in space: 89Plnm (G.11)							
2026WNW Wall (T.42.E57)	0.000	0.00	0.268	88.20	0.268	88.20	WEST
in space: 2026Plnm (T.42)							
89DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	3320.10	0.268	3320.10	WEST
in space: 89DBWNW Perim Spc (G.WNW1)							
68WNW Wall (G.11.E33)	0.000	0.00	0.268	27.50	0.268	27.50	WEST
in space: 68Plnm (G.11)							
8AWNW Wall (G.WSW10.E14)	0.000	0.00	0.268	439.20	0.268	439.20	WEST
in space: 8AWSW Perim Spc (G.WSW10)							
68DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	1891.50	0.268	1891.50	WEST
in space: 68DBWNW Perim Spc (G.WNW1)							
89DBWNW Wall (G.2.E5)	0.000	0.00	0.268	210.80	0.268	210.80	WEST
in space: 89DBPlnm (G.2)							
1519WNW Wall (T.WNW34.E47)	0.373	241.40	0.268	299.00	0.315	540.40	WEST
in space: 1519WNW Perim Spc (T.WNW34)							
6MCWNW Wall (G.NW3.E6)	0.000	0.00	0.268	1924.20	0.268	1924.20	WEST
in space: 6MCNW Perim Spc (G.NW3)							
GWNW Wall (G.W5.E7)	0.572	370.64	0.307	14.11	0.562	384.75	WEST
in space: GWest Perim Spc (G.W5)							
90WNW Wall (G.NNW1.E1)	0.373	326.48	0.268	212.52	0.332	539.00	WEST
in space: 90NNW Perim Spc (G.NNW1)							
11MCWNW Wall (G.WNW2.E5)	0.000	0.00	0.268	186.05	0.268	186.05	WEST
in space: 11MCWNW Perim Spc (G.WNW2)							
90WNW Wall (G.NNW1.E3)	0.373	233.20	0.268	151.80	0.332	385.00	WEST
in space: 90NNW Perim Spc (G.NNW1)							
27MCWNW Wall (G.WNW7.E3)	0.000	0.00	0.268	694.80	0.268	694.80	WEST
in space: 27MCWNW Perim Spc (G.WNW7)							
68DBWNW Wall (G.2.E7)	0.000	0.00	0.268	126.10	0.268	126.10	WEST
in space: 68DBPlnm (G.2)							
47WNW Wall (G.13.E18)	0.000	0.00	0.268	123.60	0.268	123.60	WEST
in space: 47Plnm (G.13)							
25WNW Wall (T.NW33.E31)	0.000	0.00	0.268	1183.00	0.268	1183.00	WEST
in space: 25NW Perim Spc (T.NW33)							
47WNW Wall (G.13.E20)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 47Plnm (G.13)							
90WNW Wall (G.W4.E9)	0.373	673.31	0.268	438.29	0.332	1111.60	WEST
in space: 90West Perim Spc (G.W4)							
90WNW Wall (G.SW5.E10)	0.373	252.70	0.268	164.50	0.332	417.20	WEST
in space: 90SW Perim Spc (G.SW5)							
11MCWNW Wall (G.SW3.E7)	0.000	0.00	0.268	171.83	0.268	171.83	WEST
in space: 11MCSW Perim Spc (G.SW3)							
1MWNW Wall (G.N2.E4)	0.000	0.00	0.268	256.80	0.268	256.80	WEST
in space: 1MNorth Perim Spc (G.N2)							

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69WNW Wall (G.NNW1.E1)	0.403	280.00	0.268	7.70	0.400	287.70	WEST
in space: 69NNW Perim Spc (G.NNW1)							
11MCWNW Wall (G.WSW5.E9)	0.000	0.00	0.268	1512.06	0.268	1512.06	WEST
in space: 11MCWSW Perim Spc (G.WSW5)							
69WNW Wall (G.NNW1.E3)	0.373	116.60	0.268	75.90	0.332	192.50	WEST
in space: 69NNW Perim Spc (G.NNW1)							
27MCWNW Wall (G.WNW9.E8)	0.000	0.00	0.268	601.20	0.268	601.20	WEST
in space: 27MCWNW Perim Spc (G.WNW9)							
90WNW Wall (G.11.E17)	0.000	0.00	0.268	235.80	0.268	235.80	WEST
in space: 90Plnm (G.11)							
8MCWNW Wall (G.NNE1.E1)	0.000	0.00	0.268	473.00	0.268	473.00	WEST
in space: 8MANNE Perim Spc (G.NNE1)							
90WNW Wall (G.11.E19)	0.000	0.00	0.268	59.60	0.268	59.60	WEST
in space: 90Plnm (G.11)							
47WNW Wall (G.13.E26)	0.000	0.00	0.268	21.80	0.268	21.80	WEST
in space: 47Plnm (G.13)							
25WNW Wall (M.NW17.E16)	0.000	0.00	0.268	2366.00	0.268	2366.00	WEST
in space: 25NW Perim Spc (M.NW17)							
4856WNW Wall (M.NNW14.E28)	0.407	2138.39	0.268	136.09	0.399	2274.48	WEST
in space: 4856NNW Perim Spc (M.NNW14)							
27MCWNW Wall (G.SW11.E11)	0.000	0.00	0.268	280.80	0.268	280.80	WEST
in space: 27MCSW Perim Spc (G.SW11)							
4856WNW Wall (M.NNW14.E30)	0.373	665.51	0.268	393.97	0.334	1059.48	WEST
in space: 4856NNW Perim Spc (M.NNW14)							
6MCWNW Wall (G.11.E11)	0.000	0.00	0.268	85.60	0.268	85.60	WEST
in space: 6MCPlnm (G.11)							
90WNW Wall (G.11.E26)	0.000	0.00	0.268	55.00	0.268	55.00	WEST
in space: 90Plnm (G.11)							
25WNW Wall (T.N34.E34)	0.000	0.00	0.268	561.75	0.268	561.75	WEST
in space: 25North Perim Spc (T.N34)							
91WNW Wall (G.NNW1.E1)	0.405	238.00	0.268	31.50	0.389	269.50	WEST
in space: 91NNW Perim Spc (G.NNW1)							
4856WNW Wall (M.W15.E33)	0.373	2344.55	0.268	1387.93	0.334	3732.48	WEST
in space: 4856West Perim Spc (M.W15)							
91WNW Wall (G.NNW1.E3)	0.411	168.00	0.268	24.50	0.393	192.50	WEST
in space: 91NNW Perim Spc (G.NNW1)							
69WNW Wall (G.W4.E14)	0.373	325.63	0.268	211.97	0.332	537.60	WEST
in space: 69West Perim Spc (G.W4)							
69WNW Wall (G.SW5.E15)	0.373	126.35	0.268	82.25	0.332	208.60	WEST
in space: 69SW Perim Spc (G.SW5)							
4856WNW Wall (M.SW16.E34)	0.373	909.73	0.268	538.55	0.334	1448.28	WEST
in space: 4856SW Perim Spc (M.SW16)							
11DBWNW Wall (G.WNW1.E1)	0.000	0.00	0.268	4529.80	0.268	4529.80	WEST
in space: 11DBWNW Perim Spc (G.WNW1)							
91WNW Wall (G.W4.E8)	0.000	0.00	0.268	555.80	0.268	555.80	WEST
in space: 91West Perim Spc (G.W4)							
91WNW Wall (G.SW5.E9)	0.000	0.00	0.268	208.60	0.268	208.60	WEST
in space: 91SW Perim Spc (G.SW5)							
28WNW Wall (G.NNW5.E1)	0.405	343.00	0.268	197.40	0.355	540.40	WEST
in space: 28NNW Perim Spc (G.NNW5)							
1519WNW Wall (T.W40.E60)	0.373	284.56	0.268	352.44	0.315	637.00	WEST
in space: 1519West Perim Spc (T.W40)							
1519WNW Wall (T.WNW41.E61)	0.373	208.88	0.268	258.72	0.315	467.60	WEST
in space: 1519WNW Perim Spc (T.WNW41)							
69WNW Wall (G.11.E21)	0.000	0.00	0.268	117.90	0.268	117.90	WEST
in space: 69Plnm (G.11)							
1519WNW Wall (T.42.E62)	0.000	0.00	0.268	69.48	0.268	69.48	WEST
in space: 1519Plnm (T.42)							

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69WNW Wall (G.11.E23)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 69Plnm (G.11)							
91WNW Wall (G.12.E16)	0.000	0.00	0.268	117.90	0.268	117.90	WEST
in space: 91Plnm (G.12)							
25WNW Wall (G.N2.E4)	0.000	0.00	0.268	561.75	0.268	561.75	WEST
in space: 25North Perim Spc (G.N2)							
91WNW Wall (G.12.E18)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 91Plnm (G.12)							
1519WNW Wall (T.42.E64)	0.000	0.00	0.268	142.02	0.268	142.02	WEST
in space: 1519Plnm (T.42)							
25WNW Wall (T.W36.E36)	0.000	0.00	0.307	448.88	0.307	448.88	WEST
in space: 25West Perim Spc (T.W36)							
8MCWNW Wall (G.SSW2.E7)	0.373	899.60	0.268	47.40	0.368	947.00	WEST
in space: 8MASSW Perim Spc (G.SSW2)							
4856WNW Wall (M.26.E44)	0.000	0.00	0.268	1112.40	0.268	1112.40	WEST
in space: 4856Plnm (M.26)							
1519WNW Wall (G.WNW6.E1)	0.373	724.21	0.268	433.79	0.334	1158.00	WEST
in space: 1519WNW Perim Spc (G.WNW6)							
4856WNW Wall (M.26.E46)	0.000	0.00	0.268	268.20	0.268	268.20	WEST
in space: 4856Plnm (M.26)							
10AWNW Wall (G.WNW1.E1)	0.373	327.32	0.268	140.28	0.342	467.60	WEST
in space: 10AWNW Perim Spc (G.WNW1)							
91WNW Wall (G.12.E26)	0.000	0.00	0.268	27.50	0.268	27.50	WEST
in space: 91Plnm (G.12)							
28WNW Wall (G.SW11.E11)	0.373	97.56	0.268	120.84	0.315	218.40	WEST
in space: 28SW Perim Spc (G.SW11)							
92WNW Wall (G.NNW1.E1)	0.405	238.00	0.268	31.50	0.389	269.50	WEST
in space: 92NNW Perim Spc (G.NNW1)							
69WNW Wall (G.11.E33)	0.000	0.00	0.268	27.50	0.268	27.50	WEST
in space: 69Plnm (G.11)							
92WNW Wall (G.NNW1.E3)	0.411	168.00	0.268	24.50	0.393	192.50	WEST
in space: 92NNW Perim Spc (G.NNW1)							
28WNW Wall (G.WNW12.E12)	0.373	208.88	0.268	258.72	0.315	467.60	WEST
in space: 28WNW Perim Spc (G.WNW12)							
70WNW Wall (G.NNW1.E1)	0.415	140.40	0.268	8.10	0.407	148.50	WEST
in space: 70NNW Perim Spc (G.NNW1)							
28WNW Wall (G.13.E13)	0.000	0.00	0.268	175.20	0.268	175.20	WEST
in space: 28Plnm (G.13)							
70WNW Wall (G.NNW1.E3)	0.408	216.00	0.268	15.12	0.399	231.12	WEST
in space: 70NNW Perim Spc (G.NNW1)							
92WNW Wall (G.W4.E8)	0.000	0.00	0.268	555.80	0.268	555.80	WEST
in space: 92West Perim Spc (G.W4)							
92WNW Wall (G.SW5.E9)	0.000	0.00	0.268	208.60	0.268	208.60	WEST
in space: 92SW Perim Spc (G.SW5)							
6MCWNW Wall (G.11.E15)	0.000	0.00	0.268	164.50	0.268	164.50	WEST
in space: 6MCPlnm (G.11)							
4856WNW Wall (M.26.E52)	0.000	0.00	0.268	196.20	0.268	196.20	WEST
in space: 4856Plnm (M.26)							
70WNW Wall (G.W2.E6)	0.373	254.74	0.268	150.80	0.334	405.54	WEST
in space: 70West Perim Spc (G.W2)							
70WNW Wall (G.SW3.E7)	0.373	101.08	0.268	59.84	0.334	160.92	WEST
in space: 70SW Perim Spc (G.SW3)							
10AWNW Wall (G.SSW2.E3)	0.373	40.67	0.268	17.43	0.342	58.10	WEST
in space: 10ASSW Perim Spc (G.SSW2)							
5765WNW Wall (M.NNW14.E28)	0.407	2138.39	0.268	136.09	0.399	2274.48	WEST
in space: 5765NNW Perim Spc (M.NNW14)							
92WNW Wall (G.12.E16)	0.000	0.00	0.268	117.90	0.268	117.90	WEST
in space: 92Plnm (G.12)							

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GWNW Wall (G.NW1.E1)	0.572	976.82	0.268	37.18	0.561	1014.00	WEST
in space: GNW Perim Spc (G.NW1)							
92WNNW Wall (G.12.E18)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 92Plnm (G.12)							
5765WNNW Wall (M.NNW14.E30)	0.373	665.51	0.268	393.97	0.334	1059.48	WEST
in space: 5765NNW Perim Spc (M.NNW14)							
2936WNNW Wall (M.NNW18.E17)	0.405	2744.00	0.268	282.24	0.393	3026.24	WEST
in space: 2936NNW Perim Spc (M.NNW18)							
2026WNNW Wall (G.WNW7.E3)	0.373	241.40	0.268	299.00	0.315	540.40	WEST
in space: 2026WNNW Perim Spc (G.WNW7)							
5765WNNW Wall (M.W15.E33)	0.373	2344.55	0.268	1387.93	0.334	3732.48	WEST
in space: 5765West Perim Spc (M.W15)							
5765WNNW Wall (M.SW16.E34)	0.373	909.73	0.268	538.55	0.334	1448.28	WEST
in space: 5765SW Perim Spc (M.SW16)							
25WNNW Wall (M.N18.E19)	0.000	0.00	0.268	1123.50	0.268	1123.50	WEST
in space: 25North Perim Spc (M.N18)							
70WNNW Wall (G.12.E17)	0.000	0.00	0.268	117.90	0.268	117.90	WEST
in space: 70Plnm (G.12)							
92WNNW Wall (G.12.E26)	0.000	0.00	0.268	27.50	0.268	27.50	WEST
in space: 92Plnm (G.12)							
25WNNW Wall (T.SSW37.E39)	0.000	0.00	0.307	439.25	0.307	439.25	WEST
in space: 25SSW Perim Spc (T.SSW37)							
70WNNW Wall (G.12.E19)	0.000	0.00	0.268	29.80	0.268	29.80	WEST
in space: 70Plnm (G.12)							
6MCRoof	0.000	0.00	0.049	27215.10	0.049	27215.10	WEST
in space: 6MCPlnm (G.11)							
10AWNW Wall (G.SSW7.E8)	0.373	429.73	0.268	184.17	0.342	613.90	WEST
in space: 10ASSW Perim Spc (G.SSW7)							
2026WNNW Wall (G.WNW9.E8)	0.373	208.88	0.268	258.72	0.315	467.60	WEST
in space: 2026WNNW Perim Spc (G.WNW9)							
6MCWNNW Wall (G.WSW1.E3)	0.000	0.00	0.307	1540.88	0.307	1540.88	WEST
in space: 6MCWSW Perim Spc (G.WSW1)							
92 Roof	0.000	0.00	0.049	7656.44	0.049	7656.44	ROOF
in space: 92Plnm (G.12)							
27MCRoof1	0.000	0.00	0.049	1244.85	0.049	1244.85	ROOF
in space: 27MCWNNW Perim Spc (G.WNW7)							
Exterior Wall 897	0.000	0.00	0.049	2916.00	0.049	2916.00	ROOF
in space: 6MC Top Spc							
Exterior Wall 898	0.000	0.00	0.049	29904.78	0.049	29904.78	ROOF
in space: Roof Spc (6MC)							
27MCRoof2	0.000	0.00	0.049	3970.01	0.049	3970.01	ROOF
in space: 27MCNNE Perim Spc (G.NNE8)							
SC3Flr (B.N1.U1)	0.000	0.00	0.010	7871.45	0.010	7871.45	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3WNNW Wall (B.N1.U2)	0.000	0.00	0.194	539.00	0.194	539.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3ESE Wall (B.N1.U3)	0.000	0.00	0.194	669.00	0.194	669.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3NNE Wall (B.N1.U4)	0.000	0.00	0.194	600.00	0.194	600.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3WNNW Wall (B.N1.U5)	0.000	0.00	0.194	457.50	0.194	457.50	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3NNE Wall (B.N1.U6)	0.000	0.00	0.194	605.00	0.194	605.00	UNDERGRND
in space: SC3North Perim Spc (B.N1)							
SC3Flr (B.SSW2.U7)	0.000	0.00	0.010	7891.75	0.010	7891.75	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3SSW Wall (B.SSW2.U8)	0.000	0.00	0.194	890.00	0.194	890.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3WNNW Wall (B.SSW2.U9)	0.000	0.00	0.194	409.00	0.194	409.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							

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SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
SC3SSW Wall (B.SSW2.U10)	0.000	0.00	0.194	315.00	0.194	315.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3ESE Wall (B.SSW2.U11)	0.000	0.00	0.194	957.00	0.194	957.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3WNW Wall (B.SSW2.U12)	0.000	0.00	0.194	548.00	0.194	548.00	UNDERGRND
in space: SC3SSW Perim Spc (B.SSW2)							
SC3Flr (B.C3.U13)	0.000	0.00	0.010	173.13	0.010	173.13	UNDERGRND
in space: SC3Core Spc (B.C3)							
SC3Flr (B.C4.U14)	0.000	0.00	0.010	177.00	0.010	177.00	UNDERGRND
in space: SC3Core Spc (B.C4)							
SC3Flr (B.C5.U15)	0.000	0.00	0.010	223.75	0.010	223.75	UNDERGRND
in space: SC3Core Spc (B.C5)							
SC3Flr (B.C6.U16)	0.000	0.00	0.010	483.50	0.010	483.50	UNDERGRND
in space: SC3Core Spc (B.C6)							
SC3Flr (B.ESE7.U17)	0.000	0.00	0.010	311.13	0.010	311.13	UNDERGRND
in space: SC3ESE Perim Spc (B.ESE7)							
SC3ESE Wall (B.ESE7.U18)	0.000	0.00	0.194	327.50	0.194	327.50	UNDERGRND
in space: SC3ESE Perim Spc (B.ESE7)							
SC2Flr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW1)							
SC2WNW Wall (B.WNW1.U2)	0.000	0.00	0.139	2024.40	0.139	2024.40	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW1)							
SC2Flr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: SC2NNE Perim Spc (B.NNE2)							
SC2NNE Wall (B.NNE2.U4)	0.000	0.00	0.139	2627.13	0.139	2627.13	UNDERGRND
in space: SC2NNE Perim Spc (B.NNE2)							
SC2Flr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: SC2Core Spc (B.C3)							
SC2Flr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: SC2Core Spc (B.C4)							
SC2Flr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2SSW Wall (B.SW5.U8)	0.000	0.00	0.139	624.40	0.139	624.40	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2WNW Wall (B.SW5.U9)	0.000	0.00	0.139	189.00	0.139	189.00	UNDERGRND
in space: SC2SW Perim Spc (B.SW5)							
SC2Flr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW6)							
SC2WNW Wall (B.WNW6.U11)	0.000	0.00	0.139	311.50	0.139	311.50	UNDERGRND
in space: SC2WNW Perim Spc (B.WNW6)							
SC2Flr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2SSW Wall (B.SSW7.U13)	0.000	0.00	0.139	2002.70	0.139	2002.70	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2WNW Wall (B.SSW7.U14)	0.000	0.00	0.139	210.00	0.139	210.00	UNDERGRND
in space: SC2SSW Perim Spc (B.SSW7)							
SC2Flr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: SC2ESE Perim Spc (B.ESE8)							
SC2ESE Wall (B.ESE8.U16)	0.000	0.00	0.139	2734.90	0.139	2734.90	UNDERGRND
in space: SC2ESE Perim Spc (B.ESE8)							
SC2Flr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: SC2Core Spc (B.C9)							
SC2Flr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND

in space: SC2Core Spc (B.C10)



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SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
SC2Flr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: SC2Core Spc (B.C11)							
SC1Flr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW1)							
SC1WNW Wall (B.WNW1.U2)	0.000	0.00	0.111	2530.50	0.111	2530.50	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW1)							
SC1Flr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: SC1NNE Perim Spc (B.NNE2)							
SC1NNE Wall (B.NNE2.U4)	0.000	0.00	0.111	3283.91	0.111	3283.91	UNDERGRND
in space: SC1NNE Perim Spc (B.NNE2)							
SC1Flr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: SC1Core Spc (B.C3)							
SC1Flr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: SC1Core Spc (B.C4)							
SC1Flr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1SSW Wall (B.SW5.U8)	0.000	0.00	0.111	780.50	0.111	780.50	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1WNW Wall (B.SW5.U9)	0.000	0.00	0.111	236.25	0.111	236.25	UNDERGRND
in space: SC1SW Perim Spc (B.SW5)							
SC1Flr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW6)							
SC1WNW Wall (B.WNW6.U11)	0.000	0.00	0.111	389.38	0.111	389.38	UNDERGRND
in space: SC1WNW Perim Spc (B.WNW6)							
SC1Flr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1SSW Wall (B.SSW7.U13)	0.000	0.00	0.111	2503.38	0.111	2503.38	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1WNW Wall (B.SSW7.U14)	0.000	0.00	0.111	262.50	0.111	262.50	UNDERGRND
in space: SC1SSW Perim Spc (B.SSW7)							
SC1Flr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: SC1ESE Perim Spc (B.ESE8)							
SC1ESE Wall (B.ESE8.U16)	0.000	0.00	0.111	3418.63	0.111	3418.63	UNDERGRND
in space: SC1ESE Perim Spc (B.ESE8)							
SC1Flr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: SC1Core Spc (B.C9)							
SC1Flr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND
in space: SC1Core Spc (B.C10)							
SC1Flr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: SC1Core Spc (B.C11)							
CFlr (B.WNW1.U1)	0.000	0.00	0.010	1944.00	0.010	1944.00	UNDERGRND
in space: CWNW Perim Spc (B.WNW1)							
CWNW Wall (B.WNW1.U2)	0.000	0.00	0.111	2530.50	0.111	2530.50	UNDERGRND
in space: CWNW Perim Spc (B.WNW1)							
CFlr (B.NNE2.U3)	0.000	0.00	0.010	2589.42	0.010	2589.42	UNDERGRND
in space: CNNE Perim Spc (B.NNE2)							
CNNE Wall (B.NNE2.U4)	0.000	0.00	0.111	3283.91	0.111	3283.91	UNDERGRND
in space: CNNE Perim Spc (B.NNE2)							
CFlr (B.C3.U5)	0.000	0.00	0.010	946.40	0.010	946.40	UNDERGRND
in space: CCore Spc (B.C3)							
CFlr (B.C4.U6)	0.000	0.00	0.010	7390.86	0.010	7390.86	UNDERGRND
in space: CCore Spc (B.C4)							
CFlr (B.SW5.U7)	0.000	0.00	0.010	984.00	0.010	984.00	UNDERGRND

in space: CSW Perim Spc (B.SW5)



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SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
CSSW Wall (B.SW5.U8)	0.000	0.00	0.111	780.50	0.111	780.50	UNDERGRND
in space: CSW Perim Spc (B.SW5)							
CWNW Wall (B.SW5.U9)	0.000	0.00	0.111	236.25	0.111	236.25	UNDERGRND
in space: CSW Perim Spc (B.SW5)							
CFlr (B.WNW6.U10)	0.000	0.00	0.010	333.75	0.010	333.75	UNDERGRND
in space: CWNW Perim Spc (B.WNW6)							
CWNW Wall (B.WNW6.U11)	0.000	0.00	0.111	389.38	0.111	389.38	UNDERGRND
in space: CWNW Perim Spc (B.WNW6)							
CFlr (B.SSW7.U12)	0.000	0.00	0.010	2033.25	0.010	2033.25	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CSSW Wall (B.SSW7.U13)	0.000	0.00	0.111	2503.38	0.111	2503.38	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CWNW Wall (B.SSW7.U14)	0.000	0.00	0.111	262.50	0.111	262.50	UNDERGRND
in space: CSSW Perim Spc (B.SSW7)							
CFlr (B.ESE8.U15)	0.000	0.00	0.010	2705.25	0.010	2705.25	UNDERGRND
in space: CESE Perim Spc (B.ESE8)							
CESE Wall (B.ESE8.U16)	0.000	0.00	0.111	3418.63	0.111	3418.63	UNDERGRND
in space: CESE Perim Spc (B.ESE8)							
CFlr (B.C9.U17)	0.000	0.00	0.010	8653.21	0.010	8653.21	UNDERGRND
in space: CCore Spc (B.C9)							
CFlr (B.C10.U18)	0.000	0.00	0.010	1076.22	0.010	1076.22	UNDERGRND
in space: CCore Spc (B.C10)							
CFlr (B.C11.U19)	0.000	0.00	0.010	5737.29	0.010	5737.29	UNDERGRND
in space: CCore Spc (B.C11)							
GFlr (G.NW1.U1)	0.000	0.00	0.096	946.40	0.096	946.40	UNDERGRND
in space: GNW Perim Spc (G.NW1)							
GFlr (G.NW2.U2)	0.000	0.00	0.020	2684.87	0.020	2684.87	UNDERGRND
in space: GNW Perim Spc (G.NW2)							
GFlr (G.NNE3.U3)	0.000	0.00	0.077	1231.48	0.077	1231.48	UNDERGRND
in space: GNNE Perim Spc (G.NNE3)							
GFlr (G.SSW4.U4)	0.000	0.00	0.074	367.50	0.074	367.50	UNDERGRND
in space: GSSW Perim Spc (G.SSW4)							
GFlr (G.W5.U5)	0.000	0.00	0.054	837.75	0.054	837.75	UNDERGRND
in space: GWest Perim Spc (G.W5)							
GFlr (G.E6.U6)	0.000	0.00	0.073	917.16	0.073	917.16	UNDERGRND
in space: GEast Perim Spc (G.E6)							
GFlr (G.NNE7.U7)	0.000	0.00	0.017	3191.08	0.017	3191.08	UNDERGRND
in space: GNNE Perim Spc (G.NNE7)							
GFlr (G.W8.U8)	0.000	0.00	0.111	488.10	0.111	488.10	UNDERGRND
in space: GWest Perim Spc (G.W8)							
GFlr (G.SSW9.U9)	0.000	0.00	0.079	998.63	0.079	998.63	UNDERGRND
in space: GSSW Perim Spc (G.SSW9)							
GFlr (G.ESE10.U10)	0.000	0.00	0.055	449.12	0.055	449.12	UNDERGRND
in space: GESE Perim Spc (G.ESE10)							
GFlr (G.ESE11.U11)	0.000	0.00	0.065	2304.75	0.065	2304.75	UNDERGRND
in space: GESE Perim Spc (G.ESE11)							
GFlr (G.SSW12.U12)	0.000	0.00	0.083	1871.25	0.083	1871.25	UNDERGRND
in space: GSSW Perim Spc (G.SSW12)							
GFlr (G.C13.U13)	0.000	0.00	0.010	3143.80	0.010	3143.80	UNDERGRND
in space: GCore Spc (G.C13)							
GFlr (G.C14.U14)	0.000	0.00	0.010	581.17	0.010	581.17	UNDERGRND
in space: GCore Spc (G.C14)							
GFlr (G.NNE15.U15)	0.000	0.00	0.040	2182.50	0.040	2182.50	UNDERGRND

in space: GNNE Perim Spc (G.NNE15)



DEPT OF BLDGS 121328205 Job Number



ES721776015 Scan Code

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

SURFACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
GFlr (G.C16.U16)	0.000	0.00	0.010	4376.04	0.010	4376.04	UNDERGRND
in space: GCore Spc (G.C16)							
GFlr (G.C17.U17)	0.000	0.00	0.010	7621.67	0.010	7621.67	UNDERGRND
in space: GCore Spc (G.C17)							

REPORT- LV-D Details of Exterior Surfaces

WEATHER FILE- New York CityNY TMY2

----- (CONTINUED) -----

	AVERAGE U-VALUE/WINDOWS (BTU/HR-SQFT-F)	AVERAGE U-VALUE/WALLS (BTU/HR-SQFT-F)	AVERAGE U-VALUE WALLS+WINDOWS (BTU/HR-SQFT-F)	WINDOW AREA (SQFT)	WALL AREA (SQFT)	WINDOW+WALL AREA (SQFT)
NORTH	0.414	0.274	0.349	106004.23	90651.89	196656.17
EAST	0.375	0.277	0.311	56021.57	103923.37	159944.95
SOUTH-EAST	0.000	0.268	0.268	0.00	390.40	390.40
SOUTH	0.429	0.272	0.333	75355.34	118330.16	193685.50
SOUTH-WEST	0.964	0.305	0.593	2844.99	3660.05	6505.04
WEST	0.392	0.221	0.277	59137.36	122064.26	181201.63
ROOF	0.000	0.049	0.049	0.00	45692.09	45692.09
ALL WALLS	0.411	0.260	0.321	299363.31	439020.31	738384.13
WALLS+ROOFS	0.411	0.240	0.305	299363.31	484712.38	784076.25
UNDERGRND	0.000	0.040	0.040	0.00	198357.05	198357.05
BUILDING	0.411	0.182	0.252	299363.31	683069.44	982433.25

REPORT- LV-I Details of Constructions

WEATHER FILE- New York CityNY TMY2

NUMBER OF CONSTRUCTIONS 26 DELAYED 20 QUICK 6

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
EWall Construction	0.300	0.60	1	QUICK	0
Ceilg Construction	0.847	0.70	3	DELAYED	5
IWall Construction	2.700	0.70	3	QUICK	0
IFlr Construction	0.813	0.70	3	DELAYED	5
1MGFlr Construction	0.085	0.70	3	DELAYED	7
SC3UFCons (B.N1.U2)	0.010	0.70	3	DELAYED	43
SC3UWCons (B.N1.U2)	0.194	0.70	3	DELAYED	35
SC2UWCons (B.WNW1.U2)	0.139	0.70	3	DELAYED	38
SC1UWCons (B.WNW1.U2)	0.111	0.70	3	DELAYED	39
GUFCons (G.NW1.U2)	0.096	0.70	3	DELAYED	39
GUFCons (G.NW2.U3)	0.020	0.70	3	DELAYED	42
GUFCons (G.NNE3.U4)	0.077	0.70	3	DELAYED	40
GUFCons (G.SSW4.U5)	0.074	0.70	3	DELAYED	40
GUFCons (G.W5.U6)	0.054	0.70	3	DELAYED	41
GUFCons (G.E6.U7)	0.073	0.70	3	DELAYED	40
GUFCons (G.NNE7.U8)	0.017	0.70	3	DELAYED	43
GUFCons (G.W8.U9)	0.111	0.70	3	DELAYED	39
GUFCons (G.SSW9.U10)	0.079	0.70	3	DELAYED	40
GUFCons (G.ESE10.U11)	0.055	0.70	3	DELAYED	41
GUFCons (G.ESE11.U12)	0.065	0.70	3	DELAYED	41
GUFCons (G.SSW12.U13)	0.083	0.70	3	DELAYED	40
GUFCons (G.NNE15.U16)	0.040	0.70	3	DELAYED	42
Roof Construction	0.050	0.70	3	QUICK	0
Unins Wall Cons - 1.5	0.350	0.70	3	QUICK	0
Unins Wall Cons - 2	0.350	0.70	3	QUICK	0
Unins Wall Cons - 5.5	0.350	0.70	3	QUICK	0

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
EM1 ELECTRICITY													
KWH	257448.	233453.	251673.	238290.	250763.	304095.	383745.	351902.	280389.	232295.	237482.	252861.	3274398.
MAX KW	527.3	548.3	612.7	669.8	843.1	890.9	938.8	895.6	921.9	681.0	542.9	542.8	938.8
DAY/HR	25/ 9	25/ 9	25/18	30/18	10/14	25/13	17/ 9	27/14	5/13	9/14	26/ 9	10/ 9	7/17
EM2- ELECTRICITY													
KWH	271122.	243274.	271096.	265717.	328722.	402259.	467957.	444176.	381009.	294708.	262379.	269475.	3901893.
MAX KW	815.0	710.7	869.9	966.0	1269.7	1514.8	1614.2	1477.4	1421.7	1034.1	778.1	769.8	1614.2
DAY/HR	23/18	4/13	28/16	30/17	10/14	16/15	17/14	25/14	5/14	9/16	3/16	9/16	7/17
EM3- ELECTRICITY													
KWH	145454.	130092.	148497.	153385.	302504.	465391.	550435.	503275.	391125.	178855.	135223.	142213.	3246450.
MAX KW	402.6	401.2	602.4	887.3	1087.1	1144.6	1292.5	1089.1	1064.8	791.7	392.6	396.8	1292.5
DAY/HR	23/22	4/22	28/19	30/20	11/20	12/20	1/20	1/20	4/20	9/20	5/22	3/22	7/ 1
DM1 ELECTRICITY													
KWH	58518.	52857.	58518.	56748.	58588.	56608.	58588.	58588.	56608.	58588.	56537.	58518.	689267.
MAX KW	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1
DAY/HR	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/ 1
EM4 ELECTRICITY													
KWH	5593.	4491.	4184.	3348.	2230.	1604.	1584.	1611.	1760.	2943.	3838.	4850.	38035.
MAX KW	13.9	12.1	13.3	13.4	12.2	4.0	3.2	3.2	8.5	13.5	8.7	11.7	13.9
DAY/HR	23/ 9	4/ 9	31/22	16/20	6/ 5	1/ 9	4/ 8	15/ 8	20/ 5	29/20	22/ 9	4/ 9	1/23
EM5 ELECTRICITY													
KWH	302576.	273294.	302576.	292815.	302576.	292815.	302576.	302576.	292815.	302576.	292815.	302576.	3562583.
MAX KW	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1
FM1 NATURAL-GAS													
THERM	77696.	54996.	40526.	20571.	12996.	11827.	11972.	12127.	11977.	15526.	31989.	56436.	358639.
MAX THERM/HR	248.0	224.2	166.2	101.0	43.9	22.4	19.7	22.3	22.0	67.2	139.9	199.8	248.0
DAY/HR	23/ 9	4/ 9	1/17	2/ 9	7/ 7	13/ 8	4/ 8	15/ 8	20/ 8	31/ 9	22/ 9	4/ 9	1/23

REPORT- PS-C Equipment Loads and Energy Use

WEATHER FILE- New York CityNY TMY2

		COOL LOAD	HEAT LOAD	ELEC USE	FUEL USE	Number of hours within each PART LOAD range											TOTAL	
	SUM	(MBTU)	(MBTU)	(KWH)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	RUN	
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KW)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS	
B-67M-6																		
	SUM		-7176.7	0.0	8533.1	LOAD	1978	440	429	470	529	599	360	187	79	35	0	5106
	PEAK		-5133.0	0.0	5857.2	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		1/18	0/ 0	1/18	FUEL	1952	465	431	479	529	599	358	179	79	35	0	5106
B-67M-5																		
	SUM		-1042.4	0.0	1198.0	LOAD	96	103	100	96	91	83	26	14	12	2	0	623
	PEAK		-4720.7	0.0	5379.7	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		12/ 4	0/ 0	12/ 4	FUEL	93	106	101	96	90	84	25	14	12	2	0	623
B-67M-4																		
	SUM		-43.2	0.0	49.6	LOAD	0	0	0	0	0	16	0	0	0	0	0	16
	PEAK		-2884.4	0.0	3277.1	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		1/23	0/ 0	1/23	FUEL	0	0	0	0	0	16	0	0	0	0	0	16
B-67M-3																		
	SUM		0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK		0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-67M-2																		
	SUM		0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK		0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-67M-1																		
	SUM		0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK		0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-7-1																		
	SUM		-3199.4	0.0	4008.6	LOAD	2081	369	489	472	244	130	89	18	3	0	0	3895
	PEAK		-4291.9	0.0	4885.9	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		1/23	0/ 0	1/23	FUEL	2053	398	494	471	242	127	89	18	3	0	0	3895
B-7-2																		
	SUM		-1759.5	0.0	2048.6	LOAD	512	405	336	289	132	24	8	0	0	0	0	1706
	PEAK		-3448.4	0.0	3918.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		12/ 4	0/ 0	12/ 4	FUEL	493	423	340	290	130	22	8	0	0	0	0	1706
B-7-3																		
	SUM		0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK		0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-7-4																		
	SUM		0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK		0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY		0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0

B-7-5																
SUM	0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-7-6																
SUM	0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0	FUEL	0	0	0	0	0	0	0	0	0	0	0	0
B-6-1																
SUM	-4014.2	0.0	4684.4	LOAD	1571	361	251	233	243	234	131	109	68	49	26	3276
PEAK	-5504.9	0.0	5983.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	1/23	0/ 0	1/23	FUEL	1527	404	251	230	251	227	133	109	68	49	27	3276
B-6-2																
SUM	-1070.1	0.0	1216.5	LOAD	79	11	16	16	12	60	58	58	28	24	24	386
PEAK	-5504.9	0.0	5983.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	1/23	0/ 0	1/23	FUEL	77	13	16	14	8	57	60	63	29	22	27	386
Fake - HP Loop Boiler																
SUM	-0.1	0.0	0.1	LOAD	0	0	0	0	0	0	0	0	0	735	0	735
PEAK	-0.1	0.0	0.1	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	1/23	0/ 0	1/23	FUEL	0	0	0	0	0	0	0	0	0	663	72	735
Retail Chiller 1																
SUM	3003.1	0.0	257030.9	LOAD	2834	225	120	82	71	67	149	193	162	147	3	4053
PEAK	3972.2	0.0	305.8	ELEC	2630	431	161	99	86	117	208	185	123	13	0	4053
MON/DAY	5/13	0/ 0	7/28													
Retail Chiller 2																
SUM	3861.8	0.0	290730.1	LOAD	0	1	1	1	4	265	307	335	254	201	0	1369
PEAK	3905.4	0.0	311.4	ELEC	0	1	1	2	223	292	333	264	218	35	0	1369
MON/DAY	9/ 8	0/ 0	6/10													
Retail Chiller 3																
SUM	3310.3	0.0	249859.9	LOAD	0	0	0	0	2	254	289	300	217	133	0	1195
PEAK	3829.2	0.0	311.4	ELEC	0	0	0	0	213	272	298	227	160	25	0	1195
MON/DAY	9/14	0/ 0	6/10													
CH-94-1																
SUM	249.5	0.0	70546.0	LOAD	6693	1659	392	16	0	0	0	0	0	0	0	8760
PEAK	179.9	0.0	17.2	ELEC	735	4514	492	375	1240	1404	0	0	0	0	0	8760
MON/DAY	7/ 2	0/ 0	7/17													
CH-94-2																
SUM	0.0	0.0	0.0	LOAD	0	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	0.0	0.0	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0													
C-TR-1																
SUM	14866.0		10797.2	LOAD	0	0	0	0	0	0	5	1	0	7998	0	8004
PEAK	8280.7		13.9	ELEC	1950	1302	226	47	14	0	0	0	0	0	0	3539
MON/DAY	7/16		7/18													
C-TR-2																
SUM	14866.0		10797.2	LOAD	0	0	0	0	0	0	5	1	0	7998	0	8004

Prop Extell 221 West 57th St - Baseline Design.SIM

PEAK
MON/DAY

8280.7
7/16

13.9
7/18

ELEC1950 1302 226 47 14 0 0 0 0 0 0 0 3539



9/17/2015

C-TR-3																
SUM	32.8	38.8	LOAD	0	0	0	0	0	0	5	1	0	0	0	6	
PEAK	5662.7	6.7	ELEC	0	0	6	0	0	0	0	0	0	0	0	6	
MON/DAY	7/ 1	7/ 1														
Nordstrom Elec DHW Heater																
SUM	-267.0	80759.1	LOAD	2444	1037	708	865	808	1076	705	612	265	240	0	8760	
PEAK	-85.6	25.1	ELEC	2179	1214	689	864	837	1065	753	616	269	195	79	8760	
MON/DAY	3/ 1	2/ 1														
Capstone C65 (lower)																
SUM	-3116.6	-609482.8	7062.5 ELEC	0	0	0	0	0	0	0	0	1	0	8759	8760	
PEAK	-519.3	-83.5	967.7 FUEL	0	0	0	0	0	0	0	0	33	2554	6173	8760	
MON/DAY	1/23	1/23	1/23 RCVR	0	0	392	501	542	328	730	766	803	494	4204	8760	
Capstone C65 (upper)																
SUM	-2749.5	-609482.8	7062.5 ELEC	0	0	0	0	0	0	0	0	1	0	8759	8760	
PEAK	-519.3	-83.5	967.7 FUEL	0	0	0	0	0	0	0	0	33	2554	6173	8760	
MON/DAY	1/23	1/23	1/23 RCVR	0	431	737	751	1145	880	223	129	89	73	4302	8760	
Res PCW Pump																
SUM	2103759.3		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	240.2		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
SCW 90 Pump																
SUM	334026.0		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	38.1		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
SCW 67 Pump																
SUM	336061.2		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	38.4		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
SCW 46 Pump																
SUM	788749.0		FLOW	0	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	90.0		RPM	0	0	0	0	0	0	0	0	0	0	8760	8760	
MON/DAY	1/ 1		ELEC	0	0	0	0	0	0	0	0	0	0	8760	8760	
Upper Res PHW Pump																
SUM	10440.7		FLOW	8069	676	10	5	0	0	0	0	0	0	0	8760	
PEAK	9.3		RPM	0	0	0	0	8601	145	7	3	4	0	0	8760	
MON/DAY	10/29		ELEC	8750	10	0	0	0	0	0	0	0	0	0	8760	
SHW FTR 90 Pump																
SUM	5437.7		FLOW	3330	2461	137	0	0	0	0	0	0	0	0	5928	
PEAK	1.3		RPM	0	0	0	0	0	5928	0	0	0	0	0	5928	
MON/DAY	1/23		ELEC	0	5928	0	0	0	0	0	0	0	0	0	5928	
SHW DHW 90 Pump																
SUM	84.8		FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	0.0		RPM	0	0	0	0	1825	4152	2783	0	0	0	0	8760	
MON/DAY	1/ 2		ELEC	0	3494	2483	2281	502	0	0	0	0	0	0	8760	
SHW FTR 67 Pump																
SUM	2361.9		FLOW	1773	1666	1257	154	5	0	0	0	0	0	0	4855	

PEAK
MON/DAY

0.8
1/23

RPM	0	0	0	0	0	2930	1925
ELEC	0	4734	121	0	0	0	0



SHW DHW 67 Pump													
SUM	84.8	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502 8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0 8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0 8760
SHW FTR 46 Pump													
SUM	1729.2	FLOW	1520	1185	1442	505	81	6	0	0	0	0	4739
PEAK	0.6	RPM	0	0	0	0	0	2223	2516	0	0	0	4739
MON/DAY	1/23	ELEC	0	4247	492	0	0	0	0	0	0	0	4739
SHW DHW 46 Pump													
SUM	84.8	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502 8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0 8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0 8760
Lower Res PHW Pump													
SUM	10464.3	FLOW	8758	2	0	0	0	0	0	0	0	0	8760
PEAK	2.4	RPM	0	0	0	0	8760	0	0	0	0	0	8760
MON/DAY	5/ 6	ELEC	8760	0	0	0	0	0	0	0	0	0	8760
SHW FTR 11 Pump													
SUM	2351.1	FLOW	1684	1524	1307	303	61	0	0	0	0	0	4879
PEAK	0.8	RPM	0	0	0	0	0	2934	1945	0	0	0	4879
MON/DAY	1/23	ELEC	0	4586	293	0	0	0	0	0	0	0	4879
SHW DHW 11 Pump													
SUM	212.5	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502 8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0 8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0 8760
SHW DHW 7 Pump													
SUM	212.5	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502 8760
PEAK	0.0	RPM	0	0	0	0	1825	4152	2783	0	0	0	0 8760
MON/DAY	1/ 2	ELEC	0	3494	2483	2281	502	0	0	0	0	0	0 8760
Retail PHW Pump													
SUM	4570.9	FLOW	0	2465	380	240	90	56	60	75	72	57	29 3524
PEAK	5.7	RPM	0	0	0	0	0	3020	323	169	12	0	0 3524
MON/DAY	1/24	ELEC	0	3011	211	142	107	39	11	3	0	0	0 3524
Penthouse CHW Pump													
SUM	17683.6	FLOW	0	0	0	0	0	0	0	0	0	8760	0 8760
PEAK	2.0	RPM	0	0	0	0	0	0	0	0	0	0	8760 8760
MON/DAY	1/ 1	ELEC	0	0	0	0	0	0	0	0	0	8760	0 8760
Retail CHW Pump													
SUM	198280.6	FLOW	3328	603	873	306	17	0	0	0	0	0	0 5127
PEAK	57.9	RPM	0	0	0	0	0	0	0	0	0	0	5127 5127
MON/DAY	7/17	ELEC	0	0	0	0	3605	1168	354	0	0	0	0 5127
Penthouse CHW Pump 2													
SUM	0.0	FLOW	0	0	0	0	0	0	0	0	0	0	0
PEAK	0.0	RPM	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	ELEC	0	0	0	0	0	0	0	0	0	0	0

REPORT- PS-D Circulation Loop Loads

WEATHER FILE- New York CityNY TMY2

		COIL LOAD	PIPE GAIN	NET LOAD	OVERLOAD	Number of hours within each PART LOAD range											TOTAL	
SUM		(MBTU)	(MBTU)	(MBTU)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	RUN	
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS	
---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Upper Res PHW Loop																		
SUM		-11032.5	0.0	-11011.9	0.0	HEAT5448	1348	1465	444	55	0	0	0	0	0	0	8760	
PEAK		-6296.5	0.0	-6288.2	0.0	FLOW5846	2317	554	29	6	4	4	0	0	0	0	8760	
MON/DAY		1/23	0/ 0	1/23	0/ 0													
Lower Res PHW Loop																		
SUM		-8093.5	0.0	-8075.7	0.0	HEAT5232	1038	986	925	374	161	39	5	0	0	0	8760	
PEAK		-4817.6	0.0	-4811.2	0.0	FLOW5676	1632	1109	237	88	18	0	0	0	0	0	8760	
MON/DAY		1/23	0/ 0	1/23	0/ 0													
Retail Elec DHW Loop																		
SUM		-267.0	0.0	-267.0	0.0	HEAT2444	1037	708	865	808	1076	705	612	265	240	0	8760	
PEAK		-85.6	0.0	-85.6	0.0	FLOW2161	893	730	720	290	1239	554	1013	303	606	251	8760	
MON/DAY		3/ 1	0/ 0	3/ 1	0/ 0													
Retail PHW Loop																		
SUM		-5095.8	0.0	-5084.3	-36.5	HEAT2586	527	125	110	63	1	0	0	0	0	0	3412	
PEAK		-13534.4	0.0	-11010.4	-2750.0	FLOW3023	286	204	11	0	0	0	0	0	0	0	3524	
MON/DAY		1/23	0/ 0	1/23	1/23													
Hours overloaded during heating: 28																		
Retail CHW Loop																		
SUM		9566.1	0.0	10175.1	0.0	COOL3303	393	626	535	225	45	0	0	0	0	0	5127	
PEAK		9850.2	0.0	10026.4	0.0	FLOW3295	485	849	430	68	0	0	0	0	0	0	5127	
MON/DAY		7/17	0/ 0	7/17	0/ 0													
Penthouse CHW Loop																		
SUM		249.5	0.0	315.8	0.0	COOL3410	1725	774	44	0	0	0	0	0	0	0	5953	
PEAK		179.9	0.0	191.1	0.0	FLOW8656	104	0	0	0	0	0	0	0	0	0	8760	
MON/DAY		7/ 2	0/ 0	7/ 2	0/ 0													
___SHW FTR 90 Loop																		
SUM		-4389.2	0.0	-4377.1	0.0	HEAT2124	1226	1503	668	118	7	0	0	0	0	0	5646	
PEAK		-2561.1	0.0	-2558.2	0.0	FLOW2717	2216	949	46	0	0	0	0	0	0	0	5928	
MON/DAY		1/23	0/ 0	1/23	0/ 0													
___SHW DHW 90 Loop																		
SUM		-448.2	0.0	-448.0	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	8760	
PEAK		-81.5	0.0	-81.4	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	8760	
MON/DAY		1/ 2	0/ 0	1/ 2	0/ 0													
___SHW FTR 67 Loop																		
SUM		-2763.8	0.0	-2758.1	0.0	HEAT1685	1455	1259	251	20	0	0	0	0	0	0	4670	
PEAK		-1838.2	0.0	-1836.2	0.0	FLOW2274	2225	351	5	0	0	0	0	0	0	0	4855	
MON/DAY		1/23	0/ 0	1/23	0/ 0													
___SHW DHW 67 Loop																		
SUM		-448.2	0.0	-448.0	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	8760	
PEAK		-81.5	0.0	-81.4	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	8760	
MON/DAY		1/ 2	0/ 0	1/ 2	0/ 0													
___SHW FTR 46 Loop																		
SUM		-2310.3	0.0	-2306.1	0.0	HEAT1763	1495	1149	189	12	0	0	0	0	0	0	4608	
PEAK		-1585.1	0.0	-1583.4	0.0	FLOW2317	2143	274	5	0	0	0	0	0	0	0	4739	
MON/DAY		1/23	0/ 0	1/23	0/ 0													

___SHW DHW 46 Loop																		
SUM	-448.2	0.0	-448.0	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	-81.5	0.0	-81.4	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0														
___SHW FTR 11 Loop																		
SUM	-2914.1	0.0	-2908.4	0.0	HEAT	1355	988	1160	936	271	50	0	0	0	0	0	4760	
PEAK	-1776.8	0.0	-1774.6	0.0	FLOW	1746	1612	1212	270	39	0	0	0	0	0	0	4879	
MON/DAY	1/23	0/ 0	1/23	0/ 0														
___SHW DHW 11 Loop																		
SUM	-1122.6	0.0	-1122.1	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	-204.1	0.0	-203.9	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0														
___SHW DHW 7 Loop																		
SUM	-1122.6	0.0	-1122.1	0.0	HEAT	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
PEAK	-204.1	0.0	-203.9	0.0	FLOW	0	0	909	916	616	1356	1323	857	1310	971	502	8760	
MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0														

		HEAT	COOL	PIPE	NET	OVER	Number of hours within each PART LOAD range										TOTAL	
		LOAD	LOAD	GAIN	LOAD	LOAD											RUN	
		(MBTU)	(MBTU)	(MBTU)	(MBTU)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS

Res PCW Loop																		
SUM	-2042.8	0.0	0.0	-0.1	-9.4	HEAT	735	0	0	0	0	0	0	0	0	0	0	735
PEAK	-3432.0	0.0	0.0	-0.1	-427.5	FLOW	0	0	0	0	0	0	0	0	735	0	0	735
MON/DAY	1/23	0/ 0	0/ 0	1/23	1/23													
SUM	0.0	25843.2	0.0	29764.8	0.0	COOL	5502	1391	1034	77	0	0	0	0	0	0	0	8004
PEAK	0.0	16297.4	0.0	16988.0	0.0	FLOW	0	0	0	0	0	0	0	0	8004	0	0	8004
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0													
SUM	0.0	0.0	0.0			FLOAT	0											
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0															

GRAND TOTAL																		
SUM	-2042.8	25843.2				FLOW	0	0	0	0	0	0	0	0	8739	0	0	8739
PEAK	-3432.0	16297.4																
MON/DAY	1/23	0/ 0																
Hours overloaded during heating: 72																		

___SCW 90 Loop																		
SUM	-321.9	0.0	0.0	-494.6	0.0	HEAT	1800	100	0	0	0	0	0	0	0	0	0	1900
PEAK	-430.8	0.0	0.0	-756.6	0.0	FLOW	0	0	0	0	0	0	0	0	0	0	1900	1900
MON/DAY	1/23	0/ 0	0/ 0	1/23	0/ 0													
SUM	0.0	4419.9	0.0	5383.3	0.0	COOL	4339	1202	1140	178	1	0	0	0	0	0	0	6860
PEAK	0.0	3190.4	0.0	3300.5	0.0	FLOW	0	0	0	0	0	0	0	0	0	0	6860	6860
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0													
SUM	0.0	0.0	0.0			FLOAT	0											
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0															

GRAND TOTAL																		
SUM	-321.9	4419.9				FLOW	0	0	0	0	0	0	0	0	0	8760	8760	
PEAK	-430.8	3190.4																

Prop Extell 221 West 57th St - Baseline Design.SIM

MON/DAY 1/23 0/ 0



9/17/2015

___SCW 67 Loop																	
SUM	0.0	0.0	0.0	-311.3	0.0	HEAT 735	0	0	0	0	0	0	0	0	0	0	735
PEAK	0.0	0.0	0.0	-435.6	0.0	FLOW	0	0	0	0	0	0	0	0	0	735	735
MON/DAY	0/ 0	0/ 0	0/ 0	1/26	0/ 0												
SUM	0.0	4155.3	0.0	5454.4	0.0	COOL5568	1328	1092	37	0	0	0	0	0	0	0	8025
PEAK	0.0	2811.8	0.0	2922.5	0.0	FLOW	0	0	0	0	0	0	0	0	0	8025	8025
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0												
SUM	0.0	0.0	0.0			FLOAT	0										
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0														
GRAND TOTAL																	
SUM	0.0	4155.3				FLOW	0	0	0	0	0	0	0	0	0	8760	8760
PEAK	0.0	2811.8															
MON/DAY	0/ 0	0/ 0															
___SCW 46 Loop																	
SUM	-741.7	0.0	0.0	-1491.6	0.0	HEAT1834	117	0	0	0	0	0	0	0	0	0	1951
PEAK	-924.3	0.0	0.0	-2257.1	0.0	FLOW	0	0	0	0	0	0	0	1951	0	0	1951
MON/DAY	1/23	0/ 0	0/ 0	1/23	0/ 0												
SUM	0.0	11996.3	0.0	14538.0	0.0	COOL4617	1429	701	62	0	0	0	0	0	0	0	6809
PEAK	0.0	9587.9	0.0	9844.9	0.0	FLOW	0	0	0	0	0	0	0	6809	0	0	6809
MON/DAY	0/ 0	7/ 1	0/ 0	7/ 1	0/ 0												
SUM	0.0	0.0	0.0			FLOAT	0										
PEAK	0.0	0.0	0.0			FLOW	0	0	0	0	0	0	0	0	0	0	0
MON/DAY	0/ 0	0/ 0	0/ 0														
GRAND TOTAL																	
SUM	-741.7	11996.3				FLOW	0	0	0	0	0	0	0	8760	0	0	8760
PEAK	-924.3	9587.9															
MON/DAY	1/23	0/ 0															

Hours high/low alarm limits exceeded: 0/ 0

Note: The yearly WLHP summaries include three entries each:
1. Data for when the loop is heating dominated, with coincident cooling
2. Data for when the loop is cooling dominated, with coincident heating
3. Data for when the loop is floating, with coincident heating and cooling

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
KWH	313795.	4866.	206490.	24074.	9783.	0.	328419.	200537.	35958.	0.	7763.	22900.	1154587.
MAX KW	740.719	12.307	409.903	70.080	117.181	0.000	464.184	317.811	144.210	0.000	24.325	61.560	2125.918
DAY/HR	2/10	2/20	2/10	23/11	23/20	0/ 0	23/ 9	23/12	1/ 9	0/ 0	23/13	1/ 1	23/10
PEAK ENDUSE	740.719	9.780	409.903	52.316	40.078	0.000	462.928	307.511	89.870	0.000	12.813	0.000	
PEAK PCT	34.8	0.5	19.3	2.5	1.9	0.0	21.8	14.5	4.2	0.0	0.6	0.0	
FEB													
KWH	283474.	4397.	186527.	20336.	9184.	0.	295614.	178579.	32479.	0.	7360.	20684.	1038636.
MAX KW	740.719	12.307	409.903	64.681	70.741	0.000	461.417	312.447	144.210	0.000	25.084	61.560	2081.027
DAY/HR	1/10	1/20	1/10	5/ 5	24/16	0/ 0	4/ 9	4/19	1/ 9	0/ 0	1/13	1/ 1	4/10
PEAK ENDUSE	740.719	9.780	409.903	31.326	22.804	0.000	460.350	302.901	89.870	0.000	13.373	0.000	
PEAK PCT	35.6	0.5	19.7	1.5	1.1	0.0	22.1	14.6	4.3	0.0	0.6	0.0	
MAR													
KWH	313795.	4866.	206490.	16843.	19241.	21.	326314.	190647.	35958.	0.	8199.	22900.	1145276.
MAX KW	740.719	12.307	409.903	42.528	544.818	2.510	468.661	322.126	144.210	0.000	25.084	61.560	2496.823
DAY/HR	1/10	1/20	1/10	1/ 5	25/18	25/18	25/16	25/15	1/ 9	0/ 0	1/13	1/ 1	25/18
PEAK ENDUSE	671.745	5.877	349.931	0.000	544.818	2.510	467.711	305.438	129.580	0.000	19.213	0.000	
PEAK PCT	26.9	0.2	14.0	0.0	21.8	0.1	18.7	12.2	5.2	0.0	0.8	0.0	
APR													
KWH	306067.	4777.	200864.	8944.	33102.	74.	314730.	178827.	34799.	0.	7805.	22162.	1112149.
MAX KW	740.719	12.307	409.903	25.941	912.145	5.578	468.303	337.920	144.210	0.000	24.896	61.560	2884.771
DAY/HR	1/10	1/20	1/10	3/ 7	30/17	30/19	30/17	30/17	1/ 9	0/ 0	2/13	1/ 2	30/18
PEAK ENDUSE	671.745	5.877	349.931	0.000	898.824	5.320	467.927	336.774	129.580	0.000	18.793	0.000	
PEAK PCT	23.3	0.2	12.1	0.0	31.2	0.2	16.2	11.7	4.5	0.0	0.7	0.0	
MAY													
KWH	315222.	4906.	207107.	1617.	248278.	1460.	325660.	174993.	35958.	0.	7259.	22900.	1345361.
MAX KW	740.719	12.307	409.903	20.881	1555.781	11.474	475.985	370.291	144.210	0.000	22.640	61.560	3563.026
DAY/HR	1/10	1/20	1/10	7/ 5	10/14	22/19	22/17	10/16	1/ 9	0/ 0	6/13	1/ 2	10/14
PEAK ENDUSE	675.794	7.385	351.347	0.000	1555.781	10.662	475.026	364.606	100.320	0.000	22.104	0.000	
PEAK PCT	19.0	0.2	9.9	0.0	43.7	0.3	13.3	10.2	2.8	0.0	0.6	0.0	
JUN													
KWH	303213.	4697.	199630.	22.	537839.	4076.	320057.	183098.	34799.	0.	6321.	22162.	1615912.
MAX KW	740.719	12.307	409.903	2.338	1723.752	18.959	624.314	378.578	144.210	0.000	20.398	61.560	3725.250
DAY/HR	3/10	3/20	3/10	1/ 7	12/15	16/15	1/16	12/17	1/ 9	0/ 0	19/13	1/ 2	12/17
PEAK ENDUSE	675.794	7.385	351.347	0.000	1708.446	14.488	477.979	378.578	96.140	0.000	15.094	0.000	
PEAK PCT	18.1	0.2	9.4	0.0	45.9	0.4	12.8	10.2	2.6	0.0	0.4	0.0	
JUL													
KWH	315222.	4906.	207107.	0.	720928.	6679.	333173.	206182.	35958.	0.	5917.	22900.	1858975.
MAX KW	740.719	12.307	409.903	0.000	2084.279	27.710	482.692	424.376	144.210	0.000	18.457	61.560	4119.031
DAY/HR	1/10	1/20	1/10	0/ 0	1/17	18/14	17/14	2/ 9	1/ 9	0/ 0	3/13	1/ 2	1/17
PEAK ENDUSE	675.794	7.385	351.347	0.000	2084.279	20.133	482.357	387.946	96.140	0.000	13.650	0.000	
PEAK PCT	16.4	0.2	8.5	0.0	50.6	0.5	11.7	9.4	2.3	0.0	0.3	0.0	
AUG													
KWH	315222.	4906.	207107.	3.	634063.	5582.	331174.	195027.	35958.	0.	5612.	22900.	1757557.
MAX KW	740.719	12.307	409.903	0.749	1722.942	22.693	534.810	374.919	144.210	0.000	17.277	61.560	3714.193
DAY/HR	1/10	1/20	1/10	5/ 8	27/15	27/15	16/17	29/17	1/ 9	0/ 0	15/13	1/ 2	27/15
PEAK ENDUSE	675.794	7.385	351.347	0.000	1722.942	22.693	480.517	362.274	77.330	0.000	13.911	0.000	
PEAK PCT	18.2	0.2	9.5	0.0	46.4	0.6	12.9	9.8	2.1	0.0	0.4	0.0	

SEP													
KWH	303213.	4697.	199630.	232.	432459.	3512.	317551.	174469.	34799.	0.	5288.	22162.	1498012.
MAX KW	740.719	12.307	409.903	9.233	1687.505	24.226	480.773	373.772	144.210	0.000	17.214	61.560	3696.526
DAY/HR	3/10	3/20	3/10	20/ 6	5/14	5/14	5/14	4/17	1/ 9	0/ 0	20/13	1/ 2	5/14
PEAK ENDUSE	675.794	7.385	351.347	0.000	1687.505	24.226	480.773	352.340	100.320	0.000	16.835	0.000	
PEAK PCT	18.3	0.2	9.5	0.0	45.7	0.7	13.0	9.5	2.7	0.0	0.5	0.0	

OCT													
KWH	315222.	4906.	207107.	4856.	76899.	227.	324714.	173762.	35958.	0.	5880.	22900.	1172434.
MAX KW	740.719	12.307	409.903	23.429	997.887	6.213	470.979	335.682	144.210	0.000	18.262	61.560	2933.577
DAY/HR	1/10	1/20	1/10	31/ 5	9/16	9/16	9/15	9/15	1/ 9	0/ 0	30/13	1/ 2	9/15
PEAK ENDUSE	675.794	7.385	351.347	0.000	994.263	6.149	470.979	335.682	77.330	0.000	14.648	0.000	
PEAK PCT	23.0	0.3	12.0	0.0	33.9	0.2	16.1	11.4	2.6	0.0	0.5	0.0	

NOV													
KWH	301786.	4656.	199014.	12290.	11015.	0.	315224.	184419.	34799.	0.	6225.	22162.	1091589.
MAX KW	740.719	12.307	409.903	32.937	115.186	0.000	456.767	316.973	144.210	0.000	20.151	61.560	2067.030
DAY/HR	1/10	1/20	1/10	22/ 4	3/16	0/ 0	22/ 9	14/ 9	1/ 9	0/ 0	21/13	1/ 2	15/10
PEAK ENDUSE	740.719	9.780	409.903	21.626	18.556	0.000	453.808	312.205	89.870	0.000	10.561	0.000	
PEAK PCT	35.8	0.5	19.8	1.0	0.9	0.0	22.0	15.1	4.3	0.0	0.5	0.0	

DEC													
KWH	313795.	4866.	206490.	18261.	9232.	1.	326908.	195554.	35958.	0.	7129.	22900.	1141097.
MAX KW	740.719	12.307	409.903	52.998	167.493	0.328	460.673	313.539	144.210	0.000	22.317	61.560	2061.105
DAY/HR	2/10	2/20	2/10	4/ 6	9/16	9/16	4/ 9	11/12	1/ 9	0/ 0	24/13	1/ 1	4/10
PEAK ENDUSE	740.719	9.780	409.903	33.887	18.570	0.000	458.328	288.312	89.870	0.000	11.736	0.000	
PEAK PCT	35.9	0.5	19.9	1.6	0.9	0.0	22.2	14.0	4.4	0.0	0.6	0.0	
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	

KWH	3700027.	57448.	2433565.	107479.	2742024.	21633.	3859538.	2236095.	423382.	0.	80759.	269633.	15931584.
MAX KW	740.719	12.307	409.903	70.080	2084.279	27.710	624.314	424.376	144.210	0.000	25.084	61.560	4119.031
MON/DY	1/ 2	1/ 2	1/ 2	1/23	7/ 1	7/18	6/ 1	7/ 2	1/ 1	0/ 0	2/ 1	1/ 1	7/ 1
PEAK ENDUSE	675.794	7.385	351.347	0.000	2084.279	20.133	482.357	387.946	96.140	0.000	13.650	0.000	
PEAK PCT	16.4	0.2	8.5	0.0	50.6	0.5	11.7	9.4	2.3	0.0	0.3	0.0	

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
MBTU	129.	17.	416.	6231.	0.	0.	67.	675.	111.	0.	26.	97.	7770.
MAX MBTU/HR	0.4	0.0	0.9	22.3	0.1	0.0	0.2	1.2	0.5	0.0	0.1	0.3	24.8
DAY/HR	23/ 7	22/22	23/ 8	23/ 9	22/19	0/ 0	19/ 8	19/ 7	19/ 9	0/ 0	19/14	19/ 5	23/ 9
PEAK ENDUSE	0.4	0.0	0.8	22.3	0.0	0.0	0.1	0.7	0.4	0.0	0.0	0.0	
PEAK PCT	1.4	0.1	3.2	90.1	0.0	0.0	0.5	2.9	1.6	0.0	0.1	0.0	
FEB													
MBTU	115.	15.	358.	4149.	0.	0.	58.	595.	99.	0.	24.	87.	5500.
MAX MBTU/HR	0.4	0.0	0.9	20.0	0.1	0.0	0.2	1.2	0.5	0.0	0.1	0.3	22.4
DAY/HR	26/ 7	25/22	4/ 8	4/ 9	4/19	0/ 0	17/ 8	26/ 4	17/ 9	0/ 0	23/14	23/ 3	4/ 9
PEAK ENDUSE	0.3	0.0	0.8	20.0	0.0	0.0	0.1	0.7	0.4	0.0	0.0	0.0	
PEAK PCT	1.5	0.1	3.5	89.4	0.0	0.0	0.5	3.1	1.8	0.0	0.1	0.0	
MAR													
MBTU	125.	17.	349.	2629.	2.	0.	64.	634.	109.	0.	27.	97.	4053.
MAX MBTU/HR	0.4	0.1	0.8	14.6	0.2	0.0	0.2	1.2	0.5	0.0	0.1	0.3	16.6
DAY/HR	29/ 7	27/22	1/ 8	1/17	25/16	25/18	30/ 8	23/ 7	30/ 9	0/ 0	30/14	31/ 3	1/17
PEAK ENDUSE	0.3	0.0	0.5	14.6	0.0	0.0	0.1	0.7	0.3	0.0	0.1	0.0	
PEAK PCT	2.1	0.1	3.0	87.9	0.0	0.0	0.7	4.3	1.6	0.0	0.3	0.0	
APR													
MBTU	125.	16.	269.	768.	4.	0.	60.	590.	103.	0.	25.	96.	2057.
MAX MBTU/HR	0.4	0.1	0.8	7.9	0.4	0.0	0.2	1.1	0.5	0.0	0.1	0.3	10.1
DAY/HR	30/ 7	10/22	3/ 8	2/ 9	30/19	30/20	14/ 8	21/ 7	7/ 9	0/ 0	6/14	13/ 2	2/ 9
PEAK ENDUSE	0.3	0.0	0.7	7.9	0.0	0.0	0.1	0.7	0.4	0.0	0.0	0.0	
PEAK PCT	3.1	0.2	7.1	77.9	0.0	0.0	1.0	6.9	3.6	0.0	0.2	0.0	
MAY													
MBTU	122.	16.	231.	49.	67.	4.	62.	524.	102.	0.	22.	101.	1300.
MAX MBTU/HR	0.4	0.1	0.7	2.3	0.5	0.0	0.2	1.1	0.5	0.0	0.1	0.3	4.4
DAY/HR	3/ 7	7/22	7/ 8	7/ 7	22/19	23/ 2	5/14	4/ 7	25/ 9	0/ 0	25/14	25/ 5	7/ 7
PEAK ENDUSE	0.4	0.0	0.7	2.3	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.1	
PEAK PCT	8.8	0.5	15.0	52.6	0.0	0.0	0.5	20.0	0.0	0.0	0.1	2.4	
JUN													
MBTU	93.	13.	210.	1.	190.	10.	61.	423.	79.	0.	16.	86.	1183.
MAX MBTU/HR	0.4	0.1	0.6	0.2	0.6	0.0	0.5	1.1	0.5	0.0	0.1	0.3	2.2
DAY/HR	14/ 7	13/22	1/ 2	13/ 8	18/19	16/15	1/16	1/ 7	1/ 9	0/ 0	1/12	1/ 4	13/ 8
PEAK ENDUSE	0.3	0.0	0.6	0.2	0.1	0.0	0.1	0.6	0.2	0.0	0.0	0.0	
PEAK PCT	14.5	1.1	27.2	11.1	5.6	0.3	4.6	25.9	9.0	0.0	0.6	0.0	
JUL													
MBTU	83.	11.	199.	0.	296.	15.	59.	379.	70.	0.	12.	72.	1197.
MAX MBTU/HR	0.4	0.0	0.6	0.0	0.6	0.0	0.2	0.9	0.5	0.0	0.0	0.3	2.0
DAY/HR	30/ 7	4/23	7/ 5	5/ 5	18/ 7	1/23	4/15	4/ 7	4/ 9	0/ 0	6/14	7/ 5	4/ 8
PEAK ENDUSE	0.1	0.0	0.6	0.0	0.1	0.0	0.2	0.7	0.3	0.0	0.0	0.0	
PEAK PCT	3.9	1.1	30.9	0.0	3.0	0.3	8.3	35.8	16.0	0.0	0.7	0.0	
AUG													
MBTU	91.	12.	207.	1.	261.	13.	59.	401.	76.	0.	13.	79.	1213.
MAX MBTU/HR	0.4	0.0	0.6	0.2	0.6	0.0	0.3	1.0	0.5	0.0	0.1	0.3	2.2
DAY/HR	5/ 7	15/22	11/ 2	15/ 8	7/23	25/14	16/17	10/ 7	10/ 9	0/ 0	17/14	11/ 5	15/ 8

Prop Extell 221 West 57th St - Baseline Design.SIM

PEAK ENDUSE	0.3	0.0	0.6	0.2	0.1	0.0	0.1	0.6	0.2	0.0	0.0	0.0
PEAK PCT	14.9	1.1	27.5	11.0	4.1	0.2	4.8	26.6	9.2	0.0	0.6	0.0


DEPT OF BLDGS121328205


Job Number


ES928845927


Scan Code

9/17/2015

SEP													
MBTU	103.	14.	214.	6.	160.	9.	60.	442.	87.	0.	14.	88.	1198.
MAX MBTU/HR	0.4	0.1	0.6	0.3	0.6	0.0	0.2	1.1	0.5	0.0	0.1	0.3	2.2
DAY/HR	9/ 7	19/22	15/23	20/ 9	4/ 4	5/24	22/16	20/ 4	21/ 9	0/ 0	21/14	21/ 5	20/ 8
PEAK ENDUSE	0.3	0.0	0.5	0.2	0.0	0.0	0.1	0.7	0.2	0.0	0.0	0.0	
PEAK PCT	15.3	1.2	23.8	11.3	0.1	0.0	5.3	33.0	9.5	0.0	0.6	0.0	

OCT													
MBTU	129.	17.	246.	274.	16.	1.	63.	575.	109.	0.	19.	103.	1553.
MAX MBTU/HR	0.4	0.1	0.8	4.6	0.3	0.0	0.2	1.1	0.5	0.0	0.1	0.3	6.7
DAY/HR	11/ 7	2/22	31/ 8	31/ 9	9/16	9/19	5/ 8	19/ 7	5/ 9	0/ 0	12/14	13/ 1	31/ 9
PEAK ENDUSE	0.3	0.0	0.7	4.6	0.0	0.0	0.1	0.6	0.4	0.0	0.0	0.0	
PEAK PCT	4.7	0.4	9.9	68.2	0.0	0.0	1.5	9.6	5.5	0.0	0.3	0.0	

NOV													
MBTU	117.	16.	327.	1842.	0.	0.	61.	616.	106.	0.	20.	94.	3199.
MAX MBTU/HR	0.4	0.0	0.8	11.7	0.0	0.0	0.2	1.2	0.5	0.0	0.1	0.3	14.0
DAY/HR	19/ 7	20/22	22/ 8	22/ 9	4/13	0/ 0	28/ 8	16/ 7	3/ 9	0/ 0	9/14	2/ 6	22/ 9
PEAK ENDUSE	0.3	0.0	0.7	11.7	0.0	0.0	0.1	0.7	0.4	0.0	0.0	0.0	
PEAK PCT	2.3	0.2	5.3	83.8	0.0	0.0	0.8	4.8	2.7	0.0	0.1	0.0	

DEC													
MBTU	127.	17.	386.	4162.	0.	0.	64.	657.	110.	0.	23.	97.	5644.
MAX MBTU/HR	0.4	0.0	0.9	17.6	0.0	0.0	0.2	1.2	0.5	0.0	0.1	0.3	20.0
DAY/HR	11/ 7	12/22	4/ 8	4/ 9	9/16	9/16	25/ 8	28/ 7	25/ 9	0/ 0	14/14	8/24	4/ 9
PEAK ENDUSE	0.3	0.0	0.8	17.6	0.0	0.0	0.1	0.7	0.4	0.0	0.0	0.0	
PEAK PCT	1.7	0.1	3.9	88.1	0.0	0.0	0.6	3.5	2.0	0.0	0.1	0.0	
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MBTU	1359.	182.	3412.	20112.	996.	52.	738.	6511.	1162.	0.	242.	1098.	35864.
MAX MBTU/HR	0.4	0.1	0.9	22.3	0.6	0.0	0.5	1.2	0.5	0.0	0.1	0.3	24.8
MON/DY	9/ 9	10/ 2	1/23	1/23	7/18	8/25	6/ 1	1/19	5/25	0/ 0	3/30	6/ 1	1/23
PEAK ENDUSE	0.4	0.0	0.8	22.3	0.0	0.0	0.1	0.7	0.4	0.0	0.0	0.0	
PEAK PCT	1.4	0.1	3.2	90.1	0.0	0.0	0.5	2.9	1.6	0.0	0.1	0.0	

*** CIRCULATION LOOPS ***

HEATING CAPACITY (MBTU/HR)	COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)
Res PCW Loop -30.666	45.602	8987.7	61.6	0.0	0.00	0.0	0.00	13481.6	1.00
Upper Res PHW Loop -12.773	0.000	845.6	41.6	0.0	0.00	0.0	0.00	1268.4	1.00
Lower Res PHW Loop -6.515	0.000	393.0	41.6	0.0	0.00	0.0	0.00	589.5	1.00
Retail Elec DHW Loop -0.086	0.000	2.2	0.0	0.0	0.00	0.0	0.00	3.2	1.00
Retail PHW Loop -21.881	0.000	1459.1	41.6	0.0	0.00	0.0	0.00	2188.6	1.00
Retail CHW Loop 0.000	17.868	3519.1	51.6	0.0	0.00	0.0	0.00	5278.7	1.00
Penthouse CHW Loop 0.000	0.550	108.8	56.6	0.0	0.00	0.0	0.00	163.2	1.00
___SCW 90 Loop -6.111	8.227	1624.8	41.6	0.0	0.00	0.0	0.00	2437.1	1.00
___SCW 67 Loop -5.886	8.414	1662.0	41.6	0.0	0.00	0.0	0.00	2493.0	1.00
___SCW 46 Loop -18.882	27.008	5353.1	41.6	0.0	0.00	0.0	0.00	8029.6	1.00
___SHW FTR 90 Loop -4.794	0.000	321.0	31.6	0.0	0.00	0.0	0.00	481.5	1.00
___SHW DHW 90 Loop -0.081	0.000	2.3	21.6	0.0	0.00	0.0	0.00	3.5	1.00
___SHW FTR 67 Loop -4.015	0.000	268.1	31.6	0.0	0.00	0.0	0.00	402.2	1.00
___SHW DHW 67 Loop -0.081	0.000	2.3	21.6	0.0	0.00	0.0	0.00	3.5	1.00
___SHW FTR 46 Loop -3.593	0.000	239.8	31.6	0.0	0.00	0.0	0.00	359.7	1.00
___SHW DHW 46 Loop -0.081	0.000	2.3	21.6	0.0	0.00	0.0	0.00	3.5	1.00
___SHW FTR 11 Loop -3.040	0.000	203.2	31.6	0.0	0.00	0.0	0.00	304.8	1.00

__SHW DHW 11 Loop										
-0.204	0.000	5.8	21.6	0.0	0.00	0.0	0.00	8.7	1.00	
__SHW DHW 7 Loop										
-0.204	0.000	5.8	21.6	0.0	0.00	0.0	0.00	8.7	1.00	

*** PUMPS ***

ATTACHED TO	FLOW (GAL/MIN)	HEAD (FT)	HEAD SETPOINT (FT)	CAPACITY CONTROL	POWER (KW)	MECHANICAL EFFICIENCY (FRAC)	MOTOR EFFICIENCY (FRAC)
Res PCW Pump	3 PUMP(s)						
Res PCW Loop	6000.0	150.0	42.6	VFD&STAGED	207.015	0.910	0.900
PRIMARY LOOP							
SCW 90 Pump	1 PUMP(s)						
__SCW 90 Loop	1100.0	125.0	42.6	VAR-SPEED	31.627	0.910	0.900
SECONDARY LOOP							
SCW 67 Pump	1 PUMP(s)						
__SCW 67 Loop	1100.0	125.0	42.6	VAR-SPEED	31.627	0.910	0.900
SECONDARY LOOP							
SCW 46 Pump	1 PUMP(s)						
__SCW 46 Loop	2500.0	125.0	42.6	VAR-SPEED	71.880	0.910	0.900
SECONDARY LOOP							
Upper Res PHW Pump	4 PUMP(s)						
Upper Res PHW Loop	1640.0	150.0	32.6	VFD&STAGED	56.584	0.910	0.900
PRIMARY LOOP							
SHW FTR 90 Pump	1 PUMP(s)						
__SHW FTR 90 Loop	430.0	80.0	32.6	VAR-SPEED	7.913	0.910	0.900
SECONDARY LOOP							
SHW DHW 90 Pump	1 PUMP(s)						
__SHW DHW 90 Loop	2.3	80.0	22.6	VAR-SPEED	0.043	0.910	0.900
SECONDARY LOOP							
SHW FTR 67 Pump	1 PUMP(s)						
__SHW FTR 67 Loop	200.0	70.0	32.6	VAR-SPEED	3.220	0.910	0.900
SECONDARY LOOP							
SHW DHW 67 Pump	1 PUMP(s)						
__SHW DHW 67 Loop	2.3	80.0	22.6	VAR-SPEED	0.043	0.910	0.900
SECONDARY LOOP							
SHW FTR 46 Pump	1 PUMP(s)						
__SHW FTR 46 Loop	140.0	70.0	32.6	VAR-SPEED	2.254	0.910	0.900
SECONDARY LOOP							
SHW DHW 46 Pump	1 PUMP(s)						
__SHW DHW 46 Loop	2.3	80.0	22.6	VAR-SPEED	0.043	0.910	0.900
SECONDARY LOOP							
Lower Res PHW Pump	4 PUMP(s)						

Lower Res PHW Loop	2160.0	140.0	32.6	VFD&STAGED	69.557	0.910	0.900
PRIMARY LOOP							



SHW FTR 11 Pump	1 PUMP(s)							
__SHW FTR 11 Loop		195.0	70.0	32.6	VAR-SPEED	3.140	0.910	0.900
SECONDARY LOOP								
SHW DHW 11 Pump	1 PUMP(s)							
__SHW DHW 11 Loop		5.8	80.0	22.6	VAR-SPEED	0.107	0.910	0.900
SECONDARY LOOP								
SHW DHW 7 Pump	1 PUMP(s)							
__SHW DHW 7 Loop		5.8	80.0	22.6	VAR-SPEED	0.107	0.910	0.900
SECONDARY LOOP								
Retail PHW Pump	1 PUMP(s)							
Retail PHW Loop		400.0	80.0	32.6	VAR-SPEED	7.361	0.910	0.900
PRIMARY LOOP								
Penthouse CHW Pump	1 PUMP(s)							
CH-94-1		99.4	70.0	0.0	ONE-SPEED	2.103	0.770	0.810
EVAPORATOR PRIMARY								
Retail CHW Pump	1 PUMP(s)							
Retail CHW Loop		3871.1	80.0	0.0	ONE-SPEED	84.184	0.770	0.900
PRIMARY LOOP								
Penthouse CHW Pump 2	1 PUMP(s)							
CH-94-2		119.7	70.0	0.0	ONE-SPEED	2.530	0.770	0.810
EVAPORATOR PRIMARY								

*** PRIMARY EQUIPMENT ***

EQUIPMENT TYPE	ATTACHED TO	RATED CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	RATED EIR (FRAC)	RATED HIR (FRAC)	AUXILIARY (KW)
B-67M-6						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-5						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-4						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-3						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-2						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-67M-1						
HW-CONDENSING	Upper Res PHW Loop	-5.610	371.4	0.000	1.045	0.000
B-7-1						
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000
B-7-2						
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000

B-7-3							
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000	
B-7-4							
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000	
B-7-5							
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000	
B-7-6							
HW-CONDENSING	Lower Res PHW Loop	-5.610	338.4	0.000	1.045	0.000	
B-6-1							
HW-CONDENSING	Retail PHW Loop	-5.610	374.1	0.000	1.045	0.000	
B-6-2							
HW-CONDENSING	Retail PHW Loop	-5.610	374.1	0.000	1.045	0.000	
Fake - HP Loop Boiler							
HW-CONDENSING	Res PCW Loop	0.000	0.0	0.000	1.074	0.000	
Retail Chiller 1							
ELEC-SCREW	Retail CHW Loop	3.600	732.8	0.319	0.000	0.000	
Retail Chiller 2							
ELEC-SCREW	Retail CHW Loop	3.600	732.8	0.319	0.000	0.000	
Retail Chiller 3							
ELEC-SCREW	Retail CHW Loop	3.600	732.8	0.319	0.000	0.000	
CH-94-1							
ELEC-OPEN-CENT	Penthouse CHW Loop	0.544	90.4	0.206	0.000	0.000	
	Res PCW Loop	0.549	109.8				
CH-94-2							
ELEC-OPEN-CENT	Penthouse CHW Loop	1.185	196.9	0.201	0.000	0.000	
	Res PCW Loop	1.191	238.1				

*** COOLING TOWERS ***

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	NUMBER OF CELLS	FAN POWER PER CELL (KW)	SPRAY PWR PER CELL (KW)	AUXILIARY (KW)
C-TR-1							
OPEN-TWR	Res PCW Loop	10.000	1998.4	1	30.770	0.000	0.000
C-TR-2							
OPEN-TWR	Res PCW Loop	10.000	1998.4	1	30.770	0.000	0.000
C-TR-3							
OPEN-TWR	Res PCW Loop	10.000	1998.4	1	30.770	0.000	0.000

*** DW-HEATERS ***

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	EIR (FRAC)	HIR (FRAC)	AUXILIARY (KW)	TANK (GAL)	TANK UA (BTU/HR-F)
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-0.086	2.2	1.000	0.000	0.000	150.0	15.00
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Prop Extell 221 West 57th St - Baseline Design.SIM

Extell 221 West 57th St

REPORT- PS-A Plant Energy Utilization

DOE-2.2-47h2 9/17/2015 16:39:27 BDL RUN 4

WEATHER FILE- New York CityNY TMY2



9/17/2015

REPORT- SV-A System Design Parameters for SC2 (Retail)

WEATHER FILE- New York CityNY TMY2

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)		CAPACITY	EIR	EIR	SUPP-HEAT	
			(SQFT)		RATIO	(KBTU/HR)			(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
VAVS		1.000	28708.8	574.	0.241	1393.404	0.681		0.000	0.000	0.000	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH				MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN		RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL		(FRAC)	(FRAC)	
SUPPLY	36181.	1.00	23.728	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER		1.10	0.30	
ZONE			SUPPLY	EXHAUST			MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN		FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)		(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
SC2WNW Perim Zn (B.WNW1)			2236.	0.	0.000		0.278	622.	0.00	0.00	50.70	-60.36	-30.18
SC2NNE Perim Zn (B.NNE2)			4467.	0.	0.000		0.186	829.	0.00	0.00	101.31	-120.60	-60.30
SC2Core Zn (B.C4)			8499.	0.	0.000		0.278	2365.	0.00	0.00	192.77	-229.49	-114.74
SC2SW Perim Zn (B.SW5)			1132.	0.	0.000		0.278	315.	0.00	0.00	25.66	-30.55	-15.28
SC2Core Zn (B.C9)			9951.	0.	0.000		0.278	2769.	0.00	0.00	225.69	-268.68	-134.34
SC2Core Zn (B.C11)			9897.	0.	0.000		0.186	1836.	0.00	0.00	224.46	-267.21	-133.61
SC2WNW Perim Zn (B.WNW6)			0.	0.	0.000		0.000	0.	0.00	0.00	0.00	0.00	0.00
SC2Core Zn (B.C10)			0.	0.	0.000		0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
VAVS	1.000	34393.6	688.	0.267	1489.046	0.678	0.000	0.000	0.000	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	38332.	1.00	25.138	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
SC1WNW Perim Zn (B.WNW1)	2236.	0.	0.000	0.278	622.	0.00	0.00	50.70	-60.36	-30.18
SC1NNE Perim Zn (B.NNE2)	4467.	0.	0.000	0.186	829.	0.00	0.00	101.31	-120.60	-60.30
SC1Core Zn (B.C4)	8499.	0.	0.000	0.278	2365.	0.00	0.00	192.77	-229.49	-114.74
SC1SW Perim Zn (B.SW5)	1132.	0.	0.000	0.278	315.	0.00	0.00	25.66	-30.55	-15.28
SC1SSW Perim Zn (B.SSW7)	2338.	0.	0.000	0.278	651.	0.00	0.00	53.03	-63.13	-31.57
SC1ESE Perim Zn (B.ESE8)	3111.	0.	0.000	0.278	866.	0.00	0.00	70.56	-84.00	-42.00
SC1Core Zn (B.C9)	9951.	0.	0.000	0.278	2769.	0.00	0.00	225.69	-268.68	-134.34
SC1Core Zn (B.C11)	6598.	0.	0.000	0.278	1836.	0.00	0.00	149.64	-178.14	-89.07
SC1Core Zn (B.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
SC1WNW Perim Zn (B.WNW6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
SC1Core Zn (B.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	30278.4	606.	0.256	1418.052	0.679	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	36665.	1.00	24.045	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
CWNW Perim Zn (B.WNW1)	2430.	0.	0.000	0.256	622.	0.00	0.00	55.11	-65.61	-32.81	1.
CNNE Perim Zn (B.NNE2)	3237.	0.	0.000	0.256	829.	0.00	0.00	73.41	-87.39	-43.70	1.
CCore Zn (B.C4)	9239.	0.	0.000	0.256	2365.	0.00	0.00	209.53	-249.44	-124.72	1.
CSW Perim Zn (B.SW5)	1230.	0.	0.000	0.256	315.	0.00	0.00	27.90	-33.21	-16.61	1.
CSSW Perim Zn (B.SSW7)	2542.	0.	0.000	0.256	651.	0.00	0.00	57.64	-68.62	-34.31	1.
CCore Zn (B.C9)	10817.	0.	0.000	0.256	2769.	0.00	0.00	245.32	-292.05	-146.02	1.
CCore Zn (B.C11)	7172.	0.	0.000	0.256	1836.	0.00	0.00	162.65	-193.63	-96.82	1.
CCore Zn (B.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	66082.3	638.	0.136	2301.036	0.696	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	62581.	1.00	41.041	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
GNW Perim Zn (G.NW2)	8055.	0.	0.000	0.107	859.	0.00	0.00	182.68	-347.96	-133.74	1.
GNNE Perim Zn (G.NNE3)	3694.	0.	0.000	0.107	394.	0.00	0.00	83.79	-159.60	-74.87	1.
GEast Perim Zn (G.E6)	1582.	0.	0.000	0.186	293.	0.00	0.00	35.88	-68.35	-46.36	1.
GWest Perim Zn (G.W8)	2193.	0.	0.000	0.071	156.	0.00	0.00	49.73	-94.73	-54.60	1.
GSSW Perim Zn (G.SSW9)	2996.	0.	0.000	0.107	320.	0.00	0.00	67.95	-129.42	-65.44	1.
GESE Perim Zn (G.ESE10)	1011.	0.	0.000	0.142	144.	0.00	0.00	22.92	-43.65	-38.64	1.
GSSW Perim Zn (G.SSW12)	4775.	0.	0.000	0.125	599.	0.00	0.00	108.31	-206.30	-89.47	1.
GCore Zn (G.C13)	5423.	0.	0.000	0.186	1006.	0.00	0.00	122.99	-234.28	-98.21	1.
GCore Zn (G.C14)	1744.	0.	0.000	0.107	186.	0.00	0.00	39.54	-75.32	-48.54	1.
GNNE Perim Zn (G.NNE15)	6548.	0.	0.000	0.107	698.	0.00	0.00	148.50	-282.85	-113.39	1.
GCore Zn (G.C16)	13128.	0.	0.000	0.107	1400.	0.00	0.00	297.75	-567.14	-202.23	1.
GCore Zn (G.C17)	11432.	0.	0.000	0.213	2439.	0.00	0.00	259.29	-493.88	-179.34	1.
GNW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GSSW Perim Zn (G.SSW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GWest Perim Zn (G.W5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GNNE Perim Zn (G.NNE7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
GP1 Zn (G.18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
VAVS	1.000	33093.9	662.	0.237	1529.453	0.682	0.000	0.000	0.000	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	39821.	1.00	26.115	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE	SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	(KW)	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
	(CFM)	(CFM)		(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
1MNorth Perim Zn (G.N2)	2526.	0.	0.000	0.267	674.	0.00	0.00	57.30	-81.85	-59.11 1.
1MSW Perim Zn (G.SW3)	2573.	0.	0.000	0.187	482.	0.00	0.00	58.36	-37.50	-59.74 1.
1MSSW Perim Zn (G.SSW5)	2697.	0.	0.000	0.267	719.	0.00	0.00	61.17	-83.37	-61.41 1.
1MNNE Perim Zn (G.NNE6)	3008.	0.	0.000	0.235	707.	0.00	0.00	68.21	-87.39	-65.60 1.
1MESE Perim Zn (G.ESE7)	6492.	0.	0.000	0.133	866.	0.00	0.00	147.23	-37.50	-112.64 1.
1MCore Zn (G.C10)	5304.	0.	0.000	0.267	1415.	0.00	0.00	120.30	-210.33	-96.61 1.
1MCore Zn (G.C11)	17221.	0.	0.000	0.267	4592.	0.00	0.00	390.56	-171.86	-257.48 1.
1MNW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-557.95	0.00 1.
1MSW Perim Zn (G.SW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-37.50	0.00 1.
1MCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	36126.6	723.	0.175	2124.713	0.690	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	56791.	1.00	37.244	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (G.N2)	3158.	0.	0.000	0.213	674.	0.00	0.00	71.62	-136.42	-67.63	1.
25SSW Perim Zn (G.SSW5)	7066.	0.	0.000	0.100	703.	0.00	0.00	160.26	-305.26	-120.39	1.
25Core Zn (G.C6)	8671.	0.	0.000	0.213	1850.	0.00	0.00	196.65	-374.57	-142.05	1.
25West Perim Zn (G.W7)	2544.	0.	0.000	0.061	156.	0.00	0.00	57.70	-109.90	-59.34	1.
25SSW Perim Zn (G.SSW8)	1660.	0.	0.000	0.192	320.	0.00	0.00	37.65	-71.72	-47.41	1.
25ESE Perim Zn (G.ESE9)	4473.	0.	0.000	0.107	477.	0.00	0.00	101.46	-193.25	-85.39	1.
25ESE Perim Zn (G.ESE10)	2277.	0.	0.000	0.171	389.	0.00	0.00	51.64	-98.35	-55.74	1.
25NNE Perim Zn (G.NNE11)	3794.	0.	0.000	0.138	522.	0.00	0.00	86.04	-163.89	-76.21	1.
25NNE Perim Zn (G.NNE12)	1303.	0.	0.000	0.142	185.	0.00	0.00	29.55	-56.28	-42.59	1.
25Core Zn (G.C15)	14022.	0.	0.000	0.213	2991.	0.00	0.00	318.03	-605.77	-214.30	1.
25Core Zn (G.C16)	7823.	0.	0.000	0.213	1669.	0.00	0.00	177.43	-337.96	-130.61	1.
25NW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25SSW Perim Zn (G.SSW3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25West Perim Zn (G.W4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (G.C13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (G.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	72253.2	1445.	0.157	4703.195	0.693	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	126782.	1.00	83.144	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (M.N18)	3632.	0.	0.000	0.186	674.	0.00	0.00	82.36	-156.88 -50.00 (BASEBOARDS)	-74.03	2.
25SSW Perim Zn (M.SSW21)	8319.	0.	0.000	0.085	703.	0.00	0.00	188.67	-359.38 -50.00 (BASEBOARDS)	-137.31	2.
25Core Zn (M.C22)	8671.	0.	0.000	0.213	1850.	0.00	0.00	196.65	-374.57 -50.00 (BASEBOARDS)	-142.05	2.
25West Perim Zn (M.W23)	2926.	0.	0.000	0.053	156.	0.00	0.00	66.36	-126.41 -50.00 (BASEBOARDS)	-64.50	2.
25SSW Perim Zn (M.SSW24)	1714.	0.	0.000	0.186	320.	0.00	0.00	38.87	-74.04 -50.00 (BASEBOARDS)	-48.14	2.
25ESE Perim Zn (M.ESE25)	4473.	0.	0.000	0.107	477.	0.00	0.00	101.46	-193.25 -50.00 (BASEBOARDS)	-85.39	2.
25ESE Perim Zn (M.ESE26)	2732.	0.	0.000	0.142	389.	0.00	0.00	61.96	-118.03 -50.00 (BASEBOARDS)	-61.88	2.
25NNE Perim Zn (M.NNE27)	3742.	0.	0.000	0.139	522.	0.00	0.00	84.88	-161.67 -50.00 (BASEBOARDS)	-75.52	2.
25NNE Perim Zn (M.NNE28)	1425.	0.	0.000	0.130	185.	0.00	0.00	32.31	-61.55 -50.00 (BASEBOARDS)	-44.23	2.
25Core Zn (M.C31)	14022.	0.	0.000	0.213	2991.	0.00	0.00	318.03	-605.77 -50.00 (BASEBOARDS)	-214.30	2.
25Core Zn (M.C32)	11735.	0.	0.000	0.142	1669.	0.00	0.00	266.15	-506.94 -50.00 (BASEBOARDS)	-183.42	2.
25NW Perim Zn (M.NW17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25SSW Perim Zn (M.SSW19)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25West Perim Zn (M.W20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25Core Zn (M.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
25Core Zn (M.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
VAVS	1.000	36126.6	723.	0.138	2650.924	0.696	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	72208.	1.00	47.355	2.03	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
25North Perim Zn (T.N34)	3158.	0.	0.000	0.213	674.	0.00	0.00	71.62	-102.32	-67.63	1.
25SSW Perim Zn (T.SSW37)	13161.	0.	0.000	0.053	703.	0.00	0.00	298.50	-426.43	-202.68	1.
25Core Zn (T.C38)	8671.	0.	0.000	0.213	1850.	0.00	0.00	196.65	-280.93	-142.05	1.
25West Perim Zn (T.W39)	4543.	0.	0.000	0.034	156.	0.00	0.00	103.03	-147.18	-86.33	1.
25SSW Perim Zn (T.SSW40)	2195.	0.	0.000	0.146	320.	0.00	0.00	49.78	-71.11	-54.63	1.
25ESE Perim Zn (T.ESE41)	4473.	0.	0.000	0.107	477.	0.00	0.00	101.46	-144.94	-85.39	1.
25ESE Perim Zn (T.ESE42)	2277.	0.	0.000	0.171	389.	0.00	0.00	51.64	-73.77	-55.74	1.
25NNE Perim Zn (T.NNE43)	6003.	0.	0.000	0.087	522.	0.00	0.00	136.15	-194.49	-106.04	1.
25NNE Perim Zn (T.NNE44)	1971.	0.	0.000	0.094	185.	0.00	0.00	44.69	-63.85	-51.60	1.
25Core Zn (T.C47)	14022.	0.	0.000	0.213	2991.	0.00	0.00	318.03	-454.33	-214.30	1.
25Core Zn (T.C48)	11735.	0.	0.000	0.142	1669.	0.00	0.00	266.15	-380.21	-183.42	1.
25NW Perim Zn (T.NW33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25SSW Perim Zn (T.SSW35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25West Perim Zn (T.W36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (T.C45)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
25Core Zn (T.C46)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
HP	1.000	383537.8	271.	0.000	0.000	0.000	0.000	0.278	0.205	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	191985.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
1519WNW Perim Zn (G.WNW6)	1432.	0.	0.384	1.000	0.	43.96	0.70	32.05	-59.68 -25.00 (BASEBOARDS)	-63.53	3.
1519NNE Perim Zn (G.NNE7)	4566.	0.	1.223	1.000	0.	139.21	0.70	102.22	-189.02 -25.00 (BASEBOARDS)	-147.87	3.
1519East Perim Zn (G.E8)	1134.	0.	0.304	1.000	0.	34.69	0.70	25.39	-47.10 -25.00 (BASEBOARDS)	-55.52	3.
1519ESE Perim Zn (G.ESE9)	981.	0.	0.263	1.000	0.	29.96	0.70	21.97	-40.67 -25.00 (BASEBOARDS)	-51.41	3.
1519South Perim Zn (G.S10	499.	0.	0.134	1.000	0.	15.30	0.70	11.17	-20.78 -25.00 (BASEBOARDS)	-38.42	3.
1519SSE Perim Zn (G.SSE11	2211.	0.	0.592	1.000	0.	67.47	0.70	49.50	-91.61 -25.00 (BASEBOARDS)	-84.50	3.
1519WNW Perim Zn (M.WNW20	1432.	0.	0.384	1.000	0.	43.96	0.70	32.05	-59.68 -25.00 (BASEBOARDS)	-63.53	5.
1519NNE Perim Zn (M.NNE21	4566.	0.	1.223	1.000	0.	139.21	0.70	102.22	-189.02 -25.00 (BASEBOARDS)	-147.87	5.
1519East Perim Zn (M.E22)	1134.	0.	0.304	1.000	0.	34.69	0.70	25.39	-47.10 -25.00 (BASEBOARDS)	-55.52	5.
1519ESE Perim Zn (M.ESE23	981.	0.	0.263	1.000	0.	29.96	0.70	21.97	-40.67 -25.00 (BASEBOARDS)	-51.41	5.
1519South Perim Zn (M.S24	499.	0.	0.134	1.000	0.	15.33	0.70	11.17	-20.81 -25.00 (BASEBOARDS)	-38.42	5.
1519SSE Perim Zn (M.SSE25	2211.	0.	0.592	1.000	0.	67.47	0.70	49.50	-91.61 -25.00 (BASEBOARDS)	-84.50	5.
1519West Perim Zn (M.W26)	1565.	0.	0.419	1.000	0.	47.90	0.70	35.03	-65.04 -25.00 (BASEBOARDS)	-67.10	5.
1519WNW Perim Zn (M.WNW27	1220.	0.	0.327	1.000	0.	37.11	0.70	27.31	-50.38 -25.00 (BASEBOARDS)	-57.83	5.
1519WNW Perim Zn (T.WNW34	1432.	0.	0.384	1.000	0.	43.96	0.70	32.05	-59.68 -25.00 (BASEBOARDS)	-63.53	1.
1519NNE Perim Zn (T.NNE35	4566.	0.	1.223	1.000	0.	139.21	0.70	102.22	-189.02 -25.00 (BASEBOARDS)	-147.87	1.
1519East Perim Zn (T.E36)	1134.	0.	0.304	1.000	0.	34.69	0.70	25.39	-47.10 -25.00 (BASEBOARDS)	-55.52	1.
1519ESE Perim Zn (T.ESE37	981.	0.	0.263	1.000	0.	29.96	0.70	21.97	-40.67 -25.00 (BASEBOARDS)	-51.41	1.
1519South Perim Zn (T.S38	499.	0.	0.134	1.000	0.	15.33	0.70	11.17	-20.81 -25.00 (BASEBOARDS)	-38.42	1.
1519SSE Perim Zn (T.SSE39	2211.	0.	0.592	1.000	0.	67.47	0.70	49.50	-91.61 -25.00 (BASEBOARDS)	-84.50	1.

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1519West Perim Zn (T.W40)	1565.	0.	0.419	1.000	0.	47.90	0.70	35.03	-65.04	-67.10	1.
									-25.00	(BASEBOARDS)	
1519WNW Perim Zn (T.WNW41	1220.	0.	0.327	1.000	0.	37.11	0.70	27.31	-50.38	-57.83	1.
									-25.00	(BASEBOARDS)	
2026East Perim Zn (G.E6)	1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-47.04	-55.52	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (G.WNW7)	1432.	0.	0.384	1.000	0.	43.85	0.70	32.05	-59.54	-63.53	1.
									-25.00	(BASEBOARDS)	
2026NNE Perim Zn (G.NNE8)	4566.	0.	1.223	1.000	0.	138.97	0.70	102.22	-188.69	-147.87	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (G.WNW9)	1220.	0.	0.327	1.000	0.	37.21	0.70	27.31	-50.53	-57.83	1.
									-25.00	(BASEBOARDS)	
2026ESE Perim Zn (G.ESE10	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.62	-51.41	1.
									-25.00	(BASEBOARDS)	
2026SW Perim Zn (G.SW11)	536.	0.	0.144	1.000	0.	16.52	0.70	12.01	-22.43	-39.44	1.
									-25.00	(BASEBOARDS)	
2026SSW Perim Zn (G.SSW12	798.	0.	0.214	1.000	0.	24.42	0.70	17.87	-33.15	-46.48	1.
									-25.00	(BASEBOARDS)	
2026South Perim Zn (G.S13	458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-19.14	-37.34	1.
									-25.00	(BASEBOARDS)	
2026East Perim Zn (M.E20)	1134.	0.	0.304	1.000	0.	34.86	0.70	25.39	-47.34	-55.52	5.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (M.WNW21	1432.	0.	0.384	1.000	0.	43.85	0.70	32.05	-59.54	-63.53	5.
									-25.00	(BASEBOARDS)	
2026NNE Perim Zn (M.NNE22	4566.	0.	1.223	1.000	0.	139.10	0.70	102.22	-188.87	-147.87	5.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (M.WNW23	1220.	0.	0.327	1.000	0.	37.26	0.70	27.31	-50.59	-57.83	5.
									-25.00	(BASEBOARDS)	
2026ESE Perim Zn (M.ESE24	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.62	-51.41	5.
									-25.00	(BASEBOARDS)	
2026SW Perim Zn (M.SW25)	536.	0.	0.144	1.000	0.	16.52	0.70	12.01	-22.43	-39.44	5.
									-25.00	(BASEBOARDS)	
2026SSW Perim Zn (M.SSW26	798.	0.	0.214	1.000	0.	24.42	0.70	17.87	-33.15	-46.48	5.
									-25.00	(BASEBOARDS)	
2026South Perim Zn (M.S27	458.	0.	0.123	1.000	0.	14.14	0.70	10.26	-19.19	-37.34	5.
									-25.00	(BASEBOARDS)	
2026East Perim Zn (T.E34)	1134.	0.	0.304	1.000	0.	34.86	0.70	25.39	-47.34	-55.52	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (T.WNW35	1432.	0.	0.384	1.000	0.	44.56	0.69	32.05	-60.51	-63.53	1.
									-25.00	(BASEBOARDS)	
2026NNE Perim Zn (T.NNE36	4566.	0.	1.223	1.000	0.	142.58	0.69	102.22	-193.60	-147.87	1.
									-25.00	(BASEBOARDS)	
2026WNW Perim Zn (T.WNW37	1220.	0.	0.327	1.000	0.	37.11	0.70	27.31	-50.38	-57.83	1.
									-25.00	(BASEBOARDS)	

(CONTINUED)											
2026ESE Perim Zn (T.ESE38	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.62	-51.41	1.
									-25.00	(BASEBOARDS)	
2026SW Perim Zn (T.SW39)	536.	0.	0.144	1.000	0.	16.72	0.69	12.01	-22.70	-39.44	1.
									-25.00	(BASEBOARDS)	
2026SSW Perim Zn (T.SSW40	798.	0.	0.214	1.000	0.	24.63	0.70	17.87	-33.44	-46.48	1.
									-25.00	(BASEBOARDS)	
2026South Perim Zn (T.S41	458.	0.	0.123	1.000	0.	14.19	0.70	10.26	-19.26	-37.34	1.
									-25.00	(BASEBOARDS)	
1519Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (G.C4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519West Perim Zn (G.W12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519WNW Perim Zn (G.WNW13	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Pl Zn (G.14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	3.
1519Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (M.C18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Pl Zn (M.28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
1519Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
1519Pl Zn (T.42)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (G.C4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Pl Zn (G.14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C17)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (M.C18)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Pl Zn (M.28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.
2026Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C30)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C31)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2026Pl Zn (T.42)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
HP	1.000	303446.3	169.	0.000	0.000	0.000	0.000	0.278	0.205	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	155487.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
28NNW Perim Zn (G.NNW5)	1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-68.37	-69.38	1.
28NNE Perim Zn (G.NNE6)	1654.	0.	0.443	1.000	0.	50.37	0.70	37.02	-25.00	(BASEBOARDS)	1.
28East Perim Zn (G.E7)	1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-68.40	-69.50	1.
28ESE Perim Zn (G.ESE8)	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-25.00	(BASEBOARDS)	1.
28South Perim Zn (G.S9)	458.	0.	0.123	1.000	0.	14.03	0.70	10.26	-47.03	-55.52	1.
28SSW Perim Zn (G.SSW10)	668.	0.	0.179	1.000	0.	20.38	0.70	14.96	-25.00	(BASEBOARDS)	1.
28SW Perim Zn (G.SW11)	666.	0.	0.179	1.000	0.	20.38	0.70	14.92	-27.68	-42.98	1.
28WNW Perim Zn (G.WNW12)	1427.	0.	0.382	1.000	0.	43.49	0.70	31.95	-25.00	(BASEBOARDS)	1.
2936NNW Perim Zn (M.NNW18)	1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-59.05	-63.40	8.
2936NNE Perim Zn (M.NNE19)	1654.	0.	0.443	1.000	0.	50.57	0.70	37.02	-25.00	(BASEBOARDS)	8.
2936East Perim Zn (M.E20)	1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-68.37	-69.38	8.
2936ESE Perim Zn (M.ESE21)	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-68.66	-69.50	8.
2936South Perim Zn (M.S22)	458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-47.03	-55.52	8.
2936SSW Perim Zn (M.SSW23)	668.	0.	0.179	1.000	0.	20.45	0.70	14.96	-25.00	(BASEBOARDS)	8.
2936SW Perim Zn (M.SW24)	666.	0.	0.179	1.000	0.	20.48	0.70	14.92	-27.76	-42.98	8.
2936WNW Perim Zn (M.WNW25)	1427.	0.	0.382	1.000	0.	43.53	0.70	31.95	-27.81	-42.94	8.
3744NNW Perim Zn (M.NNW18)	1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-25.00	(BASEBOARDS)	8.
3744NNE Perim Zn (M.NNE19)	1654.	0.	0.443	1.000	0.	50.57	0.70	37.02	-59.11	-63.40	8.
3744East Perim Zn (M.E20)	1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-25.00	(BASEBOARDS)	8.
3744ESE Perim Zn (M.ESE21)	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.61	-51.41	8.

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3744South Perim Zn (M.S22	458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-19.13	-37.34	8.
									-25.00	(BASEBOARDS)	
3744SSW Perim Zn (M.SSW23	668.	0.	0.179	1.000	0.	20.45	0.70	14.96	-27.76	-42.98	8.
									-25.00	(BASEBOARDS)	
3744SW Perim Zn (M.SW24)	666.	0.	0.179	1.000	0.	20.48	0.70	14.92	-27.81	-42.94	8.
									-25.00	(BASEBOARDS)	
3744WNW Perim Zn (M.WNW25	1427.	0.	0.382	1.000	0.	43.53	0.70	31.95	-59.11	-63.40	8.
									-25.00	(BASEBOARDS)	
45NNW Perim Zn (T.NNW31)	1649.	0.	0.442	1.000	0.	50.36	0.70	36.92	-68.37	-69.38	1.
									-25.00	(BASEBOARDS)	
45NNE Perim Zn (T.NNE32)	1654.	0.	0.443	1.000	0.	50.57	0.70	37.02	-68.66	-69.50	1.
									-25.00	(BASEBOARDS)	
45East Perim Zn (T.E33)	1134.	0.	0.304	1.000	0.	34.64	0.70	25.39	-47.03	-55.52	1.
									-25.00	(BASEBOARDS)	
45ESE Perim Zn (T.ESE34)	981.	0.	0.263	1.000	0.	29.91	0.70	21.97	-40.61	-51.41	1.
									-25.00	(BASEBOARDS)	
45South Perim Zn (T.S35)	458.	0.	0.123	1.000	0.	14.09	0.70	10.26	-19.13	-37.34	1.
									-25.00	(BASEBOARDS)	
45SSW Perim Zn (T.SSW36)	668.	0.	0.179	1.000	0.	20.45	0.70	14.96	-27.76	-42.98	1.
									-25.00	(BASEBOARDS)	
45SW Perim Zn (T.SW37)	666.	0.	0.179	1.000	0.	20.48	0.70	14.92	-27.81	-42.94	1.
									-25.00	(BASEBOARDS)	
45WNW Perim Zn (T.WNW38)	1427.	0.	0.382	1.000	0.	43.49	0.70	31.95	-59.05	-63.40	1.
									-25.00	(BASEBOARDS)	
28Core Zn (G.C1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
28Core Zn (G.C2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
28Core Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
28Pl Zn (G.13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
2936Core Zn (M.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
2936Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
2936Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
2936Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.

----- (CONTINUED) -----											
3744Core Zn (M.C14)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Core Zn (M.C15)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Core Zn (M.C16)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
3744Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
45Core Zn (T.C27)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Core Zn (T.C28)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Core Zn (T.C29)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
45Pl Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
HP	1.000	317636.8	174.	0.000	0.000	0.000	0.000	0.278	0.205	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	160895.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
47NNW Perim Zn (G.NNW1)	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-55.58	-61.01	1.
47West Perim Zn (G.W2)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-25.00	-69.15	9.
47SW Perim Zn (G.SW3)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-25.00	-37.98	9.
47SSW Perim Zn (G.SSW4)	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-20.20	-47.94	9.
47SSE Perim Zn (G.SSE5)	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-35.36	-40.74	9.
47ESE Perim Zn (G.ESE6)	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-25.00	-51.41	9.
47ENE Perim Zn (G.ENE7)	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-40.63	-44.92	9.
47NE Perim Zn (G.NE8)	1392.	0.	0.373	1.000	0.	42.43	0.70	31.17	-30.77	-62.47	9.
47Core Zn (G.C12)	654.	0.	0.175	1.000	0.	20.05	0.70	14.65	-25.00	-42.61	9.
4856NNW Perim Zn (M.NNW14	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-27.22	-61.01	9.
4856West Perim Zn (M.W15)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-55.58	-69.15	9.
4856SW Perim Zn (M.SW16)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-67.92	-37.98	9.
4856SSW Perim Zn (M.SSW17	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-20.20	-47.94	9.
4856SSE Perim Zn (M.SSE18	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-35.36	-40.74	9.
4856ESE Perim Zn (M.ESE19	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-25.00	-51.41	9.
4856ENE Perim Zn (M.ENE20	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-40.63	-44.92	9.
4856NE Perim Zn (M.NE21)	1392.	0.	0.373	1.000	0.	42.50	0.70	31.18	-30.77	-62.47	9.
5765NNW Perim Zn (M.NNW14	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-57.70	-61.01	9.
5765West Perim Zn (M.W15)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-25.00	-69.15	9.
5765SW Perim Zn (M.SW16)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-67.92	-37.98	9.
									-20.20	-42.61	
									-25.00	(BASEBOARDS)	

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5765SSW Perim Zn (M.SSW17	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-35.36	-47.94	9.
									-25.00	(BASEBOARDS)	
5765SSE Perim Zn (M.SSE18	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-24.37	-40.74	9.
									-25.00	(BASEBOARDS)	
5765ESE Perim Zn (M.ESE19	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-40.63	-51.41	9.
									-25.00	(BASEBOARDS)	
5765ENE Perim Zn (M.ENE20	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-30.77	-44.92	9.
									-25.00	(BASEBOARDS)	
5765NE Perim Zn (M.NE21)	1392.	0.	0.373	1.000	0.	42.50	0.70	31.18	-57.70	-62.47	9.
									-25.00	(BASEBOARDS)	
66NNW Perim Zn (T.NNW27)	1338.	0.	0.359	1.000	0.	40.93	0.70	29.96	-55.58	-61.01	1.
									-25.00	(BASEBOARDS)	
66West Perim Zn (T.W28)	1641.	0.	0.440	1.000	0.	50.03	0.70	36.73	-67.92	-69.15	1.
									-25.00	(BASEBOARDS)	
66SW Perim Zn (T.SW29)	482.	0.	0.129	1.000	0.	14.88	0.70	10.80	-20.20	-37.98	1.
									-25.00	(BASEBOARDS)	
66SSW Perim Zn (T.SSW30)	852.	0.	0.228	1.000	0.	26.05	0.70	19.09	-35.36	-47.94	1.
									-25.00	(BASEBOARDS)	
66SSE Perim Zn (T.SSE31)	585.	0.	0.157	1.000	0.	17.95	0.70	13.09	-24.37	-40.74	1.
									-25.00	(BASEBOARDS)	
66ESE Perim Zn (T.ESE32)	981.	0.	0.263	1.000	0.	29.92	0.70	21.97	-40.63	-51.41	1.
									-25.00	(BASEBOARDS)	
66ENE Perim Zn (T.ENE33)	740.	0.	0.198	1.000	0.	22.66	0.70	16.57	-30.77	-44.92	1.
									-25.00	(BASEBOARDS)	
66NE Perim Zn (T.NE34)	1392.	0.	0.373	1.000	0.	42.43	0.70	31.17	-57.61	-62.47	1.
									-25.00	(BASEBOARDS)	
47Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
47Core Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
47Core Zn (G.C11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
47Pl Zn (G.13)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
4856Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
4856Core Zn (M.C23)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
4856Core Zn (M.C24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.

(CONTINUED)											
4856Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
5765Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
5765Core Zn (M.C23)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
5765Core Zn (M.C24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
5765Pl Zn (M.26)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
66Core Zn (T.C35)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
66Core Zn (T.C36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
66Core Zn (T.C37)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
66Pl Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
HP	1.000	336974.5	152.	0.000	0.000	0.000	0.000	0.278	0.205	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	173360.	0.00	0.000	0.83	0.0	0.00	0.00	BLOW-THRU	CONSTANT	0.00	0.00
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
68NNW Perim Zn (G.NNW1)	1135.	0.	0.304	1.000	0.	34.85	0.70	25.42	-47.31	-55.56	1.
68NE Perim Zn (G.NE2)	1469.	0.	0.394	1.000	0.	44.87	0.70	32.90	-25.00	(BASEBOARDS)	1.
68ESE Perim Zn (G.ESE3)	360.	0.	0.097	1.000	0.	11.18	0.69	8.17	-60.93	-64.54	1.
68West Perim Zn (G.W4)	1554.	0.	0.417	1.000	0.	47.46	0.70	34.80	-25.00	(BASEBOARDS)	1.
68SW Perim Zn (G.SW5)	449.	0.	0.120	1.000	0.	13.90	0.70	10.05	-15.18	-34.69	1.
68South Perim Zn (G.S6)	852.	0.	0.228	1.000	0.	26.17	0.70	19.09	-25.00	(BASEBOARDS)	1.
68ESE Perim Zn (G.ESE9)	298.	0.	0.080	1.000	0.	9.22	0.70	6.67	-64.44	-66.83	1.
68DBWNW Perim Zn (G.WNW1)	3512.	0.	0.941	1.000	0.	108.28	0.70	78.63	-25.00	(BASEBOARDS)	1.
69NNW Perim Zn (G.NNW1)	1135.	0.	0.304	1.000	0.	34.85	0.70	25.42	-18.87	-37.08	1.
69NE Perim Zn (G.NE2)	1469.	0.	0.394	1.000	0.	44.88	0.70	32.90	-25.00	(BASEBOARDS)	1.
69ESE Perim Zn (G.ESE3)	358.	0.	0.096	1.000	0.	11.12	0.69	8.12	-35.53	-47.94	1.
69West Perim Zn (G.W4)	1554.	0.	0.417	1.000	0.	47.47	0.70	34.80	-25.00	(BASEBOARDS)	1.
69SW Perim Zn (G.SW5)	449.	0.	0.120	1.000	0.	13.79	0.70	10.05	-12.51	-33.02	1.
69South Perim Zn (G.S6)	852.	0.	0.228	1.000	0.	26.17	0.70	19.09	-25.00	(BASEBOARDS)	1.
70NNW Perim Zn (G.NNW1)	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-147.02	-119.82	1.
70West Perim Zn (G.W2)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-47.32	-55.56	1.
70SW Perim Zn (G.SW3)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-25.00	(BASEBOARDS)	1.
70South Perim Zn (G.S4)	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-60.93	-64.54	1.
70NE Perim Zn (G.NE5)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-15.09	-34.64	1.
70ENE Perim Zn (G.ENE6)	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-25.00	(BASEBOARDS)	1.

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70SE Perim Zn (G.SE7)	990.	0.	0.265	1.000	0.	30.23	0.70	22.16	-41.05	-51.64	1.
									-25.00	(BASEBOARDS)	
70Core Zn (G.C8)	212.	0.	0.057	1.000	0.	6.59	0.69	4.75	-8.94	-30.71	1.
									-25.00	(BASEBOARDS)	
7179NNW Perim Zn (M.NNW13	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-48.64	-56.48	9.
									-25.00	(BASEBOARDS)	
7179West Perim Zn (M.W14)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-62.96	-65.91	9.
									-25.00	(BASEBOARDS)	
7179SW Perim Zn (M.SW15)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-18.68	-37.08	9.
									-25.00	(BASEBOARDS)	
7179South Perim Zn (M.S16	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-44.08	-53.55	9.
									-25.00	(BASEBOARDS)	
7179NE Perim Zn (M.NE17)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-24.49	-40.85	9.
									-25.00	(BASEBOARDS)	
7179ENE Perim Zn (M.ENE18	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-65.91	-67.88	9.
									-25.00	(BASEBOARDS)	
7179SE Perim Zn (M.SE19)	990.	0.	0.265	1.000	0.	30.25	0.70	22.16	-41.07	-51.64	9.
									-25.00	(BASEBOARDS)	
8087NNW Perim Zn (M.NNW13	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-48.64	-56.48	8.
									-25.00	(BASEBOARDS)	
8087West Perim Zn (M.W14)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-62.96	-65.91	8.
									-25.00	(BASEBOARDS)	
8087SW Perim Zn (M.SW15)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-18.68	-37.08	8.
									-25.00	(BASEBOARDS)	
8087South Perim Zn (M.S16	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-44.08	-53.55	8.
									-25.00	(BASEBOARDS)	
8087NE Perim Zn (M.NE17)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-24.49	-40.85	8.
									-25.00	(BASEBOARDS)	
8087ENE Perim Zn (M.ENE18	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-65.91	-67.88	8.
									-25.00	(BASEBOARDS)	
8087SE Perim Zn (M.SE19)	990.	0.	0.265	1.000	0.	30.25	0.70	22.16	-41.07	-51.64	8.
									-25.00	(BASEBOARDS)	
88NNW Perim Zn (T.NNW25)	1170.	0.	0.313	1.000	0.	35.83	0.70	26.19	-48.64	-56.48	1.
									-25.00	(BASEBOARDS)	
88West Perim Zn (T.W26)	1520.	0.	0.407	1.000	0.	46.37	0.70	34.03	-62.96	-65.91	1.
									-25.00	(BASEBOARDS)	
88SW Perim Zn (T.SW27)	449.	0.	0.120	1.000	0.	13.75	0.70	10.05	-18.68	-37.08	1.
									-25.00	(BASEBOARDS)	
88South Perim Zn (T.S28)	1061.	0.	0.284	1.000	0.	32.47	0.70	23.75	-44.08	-53.55	1.
									-25.00	(BASEBOARDS)	
88NE Perim Zn (T.NE29)	589.	0.	0.158	1.000	0.	18.04	0.70	13.19	-24.49	-40.85	1.
									-25.00	(BASEBOARDS)	
88ENE Perim Zn (T.ENE30)	1593.	0.	0.427	1.000	0.	48.54	0.70	35.68	-65.91	-67.88	1.
									-25.00	(BASEBOARDS)	

(CONTINUED)											
88SE Perim Zn (T.SE31)	990.	0.	0.265	1.000	0.	30.23	0.70	22.16	-41.05	-51.64	1.
									-25.00	(BASEBOARDS)	
89NNW Perim Zn (G.NNW1)	1083.	0.	0.290	1.000	0.	33.25	0.70	24.24	-45.15	-54.14	2.
									-25.00	(BASEBOARDS)	
89NE Perim Zn (G.NE2)	589.	0.	0.158	1.000	0.	18.09	0.70	13.19	-24.56	-40.85	2.
									-25.00	(BASEBOARDS)	
89ESE Perim Zn (G.ESE3)	825.	0.	0.221	1.000	0.	25.25	0.70	18.46	-34.29	-47.19	2.
									-25.00	(BASEBOARDS)	
89West Perim Zn (G.W4)	1607.	0.	0.431	1.000	0.	49.07	0.70	35.98	-66.62	-68.25	2.
									-25.00	(BASEBOARDS)	
89SW Perim Zn (G.SW5)	449.	0.	0.120	1.000	0.	13.79	0.70	10.05	-18.73	-37.08	2.
									-25.00	(BASEBOARDS)	
89South Perim Zn (G.S6)	1153.	0.	0.309	1.000	0.	35.38	0.70	25.81	-48.03	-56.03	2.
									-25.00	(BASEBOARDS)	
89DBWNW Perim Zn (G.WNW1)	3110.	0.	0.833	1.000	0.	95.87	0.70	69.63	-130.17	-108.97	2.
									-25.00	(BASEBOARDS)	
68Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
68Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
68Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
68DBPl Zn (G.2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
69Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
70Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
70Core Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
70Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
7179Core Zn (M.C20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
7179Core Zn (M.C21)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
7179Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
7179Pl Zn (M.24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.
8087Core Zn (M.C20)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
8087Core Zn (M.C21)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
8087Core Zn (M.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
8087Pl Zn (M.24)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	8.
88Core Zn (T.C32)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
88Core Zn (T.C33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
88Core Zn (T.C34)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
88Pl Zn (T.36)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
89Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
89DBPl Zn (G.2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	311.1	1.	0.700	27.262	0.585	-34.072	0.257	0.257	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	550.	1.00	0.172	0.96	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3ESE Perim Zn (B.ESE7)	550.		0.	0.000	0.700	385.	0.00	0.00	12.47	-20.79	-10.40	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	483.5	2.	0.000	47.495	0.771	-59.368	0.277	0.277	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	1600.	1.00	0.566	1.09	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3Core Zn (B.C6)	1600.		0.	0.000	0.001	0.	0.00	0.00	36.29	-43.20	-21.60	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	396.9	2.	0.700	27.278	0.585	-34.092	0.257	0.257	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	550.	1.00	0.172	0.96	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC3Core Zn (B.C3)	240.		0.	0.000	0.700	168.	0.00	0.00	5.44	-9.07	-4.53	
SC3Core Zn (B.C5)	310.		0.	0.000	0.700	217.	0.00	0.00	7.03	-11.72	-5.86	

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	15940.2	64.	0.600	285.699	0.591	-357.079	0.294	0.294	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	6000.	1.00	2.244	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
SC3SSW Perim Zn (B.SSW2)	5868.	0.	0.000	0.600	3521.	0.00	0.00	133.09	-190.14	-95.07	1.
SC3Core Zn (B.C4)	132.	0.	0.000	0.600	79.	0.00	0.00	2.99	-4.26	-2.13	1.
SC3North Perim Zn (B.N1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	946.4	19.	0.540	38.036	0.592	-47.536	0.260	0.260	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	800.	1.00	0.335	1.29	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC2Core Zn (B.C3)	800.		0.	0.000	0.540	432.	0.00	0.00	18.14	-23.33	-11.66	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	4738.5	95.	0.880	217.243	0.578	-271.594	0.273	0.273	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	4000.	1.00	1.208	0.93	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
SC2SSW Perim Zn (B.SSW7)	1716.		0.	0.000	0.880	1510.	0.00	0.00	38.93	-81.56	-40.78	1.
SC2ESE Perim Zn (B.ESE8)	2284.		0.	0.000	0.880	2010.	0.00	0.00	51.79	-108.52	-54.26	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	2705.3	54.	0.250	124.478	0.628	-155.597	0.287	0.287	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	3000.	1.00	1.902	1.96	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
CESE Perim Zn (B.ESE8)	3000.		0.	0.000	0.250	750.	0.00	0.00	68.04	-81.00	-40.50	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	1410.0	28.	0.800	57.767	0.579	-72.208	0.247	0.247	0.000		
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN	FAN	MAX FAN	MIN FAN
									PLACEMENT	CONTROL	RATIO (FRAC)	RATIO (FRAC)
SUPPLY	1100.	1.00	0.343	0.96	0.0	0.00	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
	ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING	EXTRACTION		HEATING	ADDITION
								CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)
CCore Zn (B.C10)			1100.	0.	0.000	0.800	880.	0.00	0.00	24.95	-47.52	-23.76
CWNW Perim Zn (B.WNW6)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	5336.8	107.	1.000	442.218	0.572	-552.773	0.232	0.232	0.000		
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN	FAN	MAX FAN	MIN FAN
									PLACEMENT	CONTROL	RATIO (FRAC)	RATIO (FRAC)
	SUPPLY	7000.	1.00	8.389	3.70	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
	ZONE NAME	SUPPLY		EXHAUST	FAN (KW)	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
		FLOW (CFM)	FLOW (CFM)	FLOW (FRAC)		AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	MU
	GESE Perim Zn (G.ESE11)	2354.		0.	0.000	1.000	2354.	0.00	0.00	53.39	-127.13	-63.56
	1MCore Zn (G.C8)	4646.		0.	0.000	1.000	4646.	0.00	0.00	105.37	-250.87	-125.44

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	70592.2	35.	0.000	422.788	0.757	-528.485	0.277	0.277	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	13800.	1.00	6.679	1.50	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCCore Zn (G.C10)	5090.	0.	0.000	0.001	0.	0.00	0.00	115.45	-137.44	-68.72	1.
6MCCore Zn (G.C8)	8710.	0.	0.000	0.001	0.	0.00	0.00	197.53	-235.16	-117.58	1.
6MCPl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Thermal Zone 555	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP			
		(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)			
PVAVS	1.000	2836.6	11.	0.500	78.742	0.597	-98.427	0.277	0.277	0.000			
	FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN	FAN	MAX FAN	MIN FAN	
									PLACEMENT	CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY	1700.	1.00	0.823	1.50	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30		
	ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
			FLOW (CFM)	FLOW (CFM)		FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE
6MCWSW Perim Zn (G.WSW1)			1700.	0.	0.000	0.500	850.	0.00	0.00	38.56	-45.90	-22.95	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	2055.5	8.	0.590	79.776	0.588	-99.721	0.277	0.277	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1650.	1.00	0.799	1.50	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNorth Perim Zn (G.N2)	1650.	0.	0.000	0.590	974.	0.00	0.00	37.42	-52.57	-26.28	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVAVS	1.000	801.8	3.	0.600	75.849	0.592	-94.811	0.262	0.262	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	1600.	1.00	0.566	1.09	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNW Perim Zn (G.NW3)	1600.		0.	0.000	0.600	960.	0.00	0.00	36.29	-51.84	-25.92	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT		
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)		
PVAVS	1.000	1936.7	8.	0.000	62.182	0.746	-77.728	0.275	0.275	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN	
		FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF			RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)	
SUPPLY	2000.	1.00	0.730	1.13	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30	
ZONE NAME	SUPPLY		EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	ZONE
	FLOW	FLOW	FLOW		FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
	(CFM)	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
6MCSSW Perim Zn (G.SSW6)	2000.	0.	0.000	0.001	0.	0.00	0.00	0.00	45.36	-54.00	-27.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	17861.5	103.	1.000	939.301	0.572	-1184.336	0.232	0.230	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	15000.	1.00	16.779	3.46	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCCore Zn (G.C7)	8571.	0.	0.000	1.000	8571.	0.00	0.00	194.38	-462.81	-231.41	1.
8AWSW Perim Zn (G.WSW2)	3427.	0.	0.000	1.000	3427.	0.00	0.00	77.72	-185.04	-92.52	1.
8ACore Zn (G.C4)	493.	0.	0.000	1.000	493.	0.00	0.00	11.17	-26.60	-13.30	1.
8ANNE Perim Zn (G.NNE5)	323.	0.	0.000	1.000	323.	0.00	0.00	7.33	-17.46	-8.73	1.
8ANNE Perim Zn (G.NNE7)	216.	0.	0.000	1.000	216.	0.00	0.00	4.90	-11.67	-5.83	1.
8ASW Perim Zn (G.SW9)	523.	0.	0.000	1.000	523.	0.00	0.00	11.86	-28.24	-14.12	1.
8AESE Perim Zn (G.ESE12)	1448.	0.	0.000	1.000	1448.	0.00	0.00	32.83	-78.18	-39.09	1.
6MC New Zn	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ANW Perim Zn (G.NW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ANNE Perim Zn (G.NNE3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ACore Zn (G.C6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ACore Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8AWSW Perim Zn (G.WSW10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
8ASSW Perim Zn (G.SSW11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	36307.3	145.	1.000	829.562	0.571	-1036.952	0.232	0.232	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	13000.	1.00	16.778	3.99	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
6MCNNE Perim Zn (G.NNE4)	4175.	0.	0.000	1.000	4175.	0.00	0.00	94.69	-225.46	-112.73	1.
10ASSW Perim Zn (G.SSW2)	339.	0.	0.000	1.000	339.	0.00	0.00	7.69	-18.30	-9.15	1.
10AESE Perim Zn (G.ESE4)	1116.	0.	0.000	1.000	1116.	0.00	0.00	25.31	-60.26	-30.13	1.
10ASSW Perim Zn (G.SSW7)	5406.	0.	0.000	1.000	5406.	0.00	0.00	122.61	-291.92	-145.96	1.
10AENE Perim Zn (G.ENE9)	1964.	0.	0.000	1.000	1964.	0.00	0.00	44.55	-106.06	-53.03	1.
6MCESE Perim Zn (G.ESE5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AWNWN Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10ACore Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10ACore Zn (G.C5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AESE Perim Zn (G.ESE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10AP1 Zn (G.10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MWNWN Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MSSW Perim Zn (G.SSW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MCore Zn (G.C3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MESE Perim Zn (G.ESE4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MCore Zn (G.C5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MESE Perim Zn (G.ESE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MSSW Perim Zn (G.SSW7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MNorth Perim Zn (G.N8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
10MENE Perim Zn (G.ENE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
6MCCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	17378.2	70.	0.000	60.483	0.761	-75.604	0.262	0.262	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	2000.	1.00	0.730	1.13	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
8MCNNE Perim Zn (G.NNE1)	2000.	0.	0.000	0.001	0.	0.00	0.00	45.36	-54.00	-27.00
8MCSSW Perim Zn (G.SSW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCNNE Perim Zn (G.NNE1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCWNW Perim Zn (G.WNW2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCSW Perim Zn (G.SW3)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCSSW Perim Zn (G.SSW4)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCWSW Perim Zn (G.WSW5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCSE Perim Zn (G.SE6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCCore Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCCore Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCCore Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11MCCore Zn (G.C10)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
11DBWNW Perim Zn (G.WNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	3626.4	36.	0.180	383.885	0.657	-479.856	0.232	0.232	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	10000.	1.00	8.000	2.47	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
10ANorth Perim Zn (G.N8)	10000.	0.	0.000	0.180	1800.	0.00	0.00	226.80	-270.00	-135.00	1.

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
			(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVAVS		1.000	11098.6	46.	0.000	94.008	0.742	-117.510	0.267	0.267	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)	
SUPPLY		3000.	1.00	1.125	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE			SUPPLY	EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
27MCCore Zn (G.C1)			106.	0.	0.000	0.001	0.	0.00	0.00	2.40	-2.86	-1.43
27MCCore Zn (G.C2)			108.	0.	0.000	0.001	0.	0.00	0.00	2.45	-2.92	-1.46
27MCCore Zn (G.C3)			137.	0.	0.000	0.001	0.	0.00	0.00	3.11	-3.70	-1.85
27MCCore Zn (G.C4)			102.	0.	0.000	0.001	0.	0.00	0.00	2.32	-2.76	-1.38
27MCCore Zn (G.C5)			384.	0.	0.000	0.001	0.	0.00	0.00	8.71	-10.37	-5.18
27MCEast Perim Zn (G.E6)			580.	0.	0.000	0.001	0.	0.00	0.00	13.15	-15.66	-7.83
27MCESE Perim Zn (G.ESE10			502.	0.	0.000	0.001	0.	0.00	0.00	11.38	-13.55	-6.77
27MCSW Perim Zn (G.SW11)			354.	0.	0.000	0.001	0.	0.00	0.00	8.02	-9.55	-4.78
27MCSSW Perim Zn (G.SSW12			408.	0.	0.000	0.001	0.	0.00	0.00	9.26	-11.02	-5.51
27MCSouth Perim Zn (G.S13			319.	0.	0.000	0.001	0.	0.00	0.00	7.23	-8.61	-4.30
27MCWNW Perim Zn (G.WNW7)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
27MCNNE Perim Zn (G.NNE8)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
27MCWNW Perim Zn (G.WNW9)			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	17511.2	35.	0.000	91.947	0.754	-114.934	0.267	0.267	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	3000.	1.00	1.125	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
46MCCore Zn (T.C27)	192.	0.	0.000	0.001	0.	0.00	0.00	4.34	-5.17	-2.59
46MCCore Zn (T.C28)	243.	0.	0.000	0.001	0.	0.00	0.00	5.52	-6.57	-3.29
46MCCore Zn (T.C29)	182.	0.	0.000	0.001	0.	0.00	0.00	4.12	-4.90	-2.45
46MCCore Zn (T.C30)	681.	0.	0.000	0.001	0.	0.00	0.00	15.45	-18.39	-9.20
46MCSSW Perim Zn (T.SSW36	808.	0.	0.000	0.001	0.	0.00	0.00	18.33	-21.82	-10.91
46MCSW Perim Zn (T.SW37)	894.	0.	0.000	0.001	0.	0.00	0.00	20.28	-24.14	-12.07
46MCNNW Perim Zn (T.NNW31	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCNNE Perim Zn (T.NNE32	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCEast Perim Zn (T.E33)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCESE Perim Zn (T.ESE34	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCSouth Perim Zn (T.S35	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCWNW Perim Zn (T.WNW38	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
46MCP1 Zn (T.39)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVAVS	1.000	8211.1	33.	0.500	314.745	0.603	-393.432	0.267	0.267	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	7000.	1.00	2.625	1.16	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
67MCSW Perim Zn (G.SW3)	893.	0.	0.000	0.500	446.	0.00	0.00	20.24	-24.10	-12.05	1.
67MCSSW Perim Zn (G.SSW4)	760.	0.	0.000	0.500	380.	0.00	0.00	17.23	-20.51	-10.26	1.
67MCSSE Perim Zn (G.SSE5)	937.	0.	0.000	0.500	469.	0.00	0.00	21.26	-25.31	-12.65	1.
67MCESE Perim Zn (G.ESE6)	865.	0.	0.000	0.500	432.	0.00	0.00	19.61	-23.35	-11.67	1.
67MCENE Perim Zn (G.ENE7)	1058.	0.	0.000	0.500	529.	0.00	0.00	24.00	-28.58	-14.29	1.
67MCNE Perim Zn (G.NE8)	1227.	0.	0.000	0.500	613.	0.00	0.00	27.82	-33.12	-16.56	1.
67MCCore Zn (G.C9)	186.	0.	0.000	0.500	93.	0.00	0.00	4.22	-5.02	-2.51	1.
67MCCore Zn (G.C10)	236.	0.	0.000	0.500	118.	0.00	0.00	5.35	-6.37	-3.18	1.
67MCCore Zn (G.C11)	576.	0.	0.000	0.500	288.	0.00	0.00	13.07	-15.56	-7.78	1.
67MCCore Zn (G.C12)	262.	0.	0.000	0.500	131.	0.00	0.00	5.95	-7.09	-3.54	1.
67MCNNW Perim Zn (G.NNW1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
67MCWest Perim Zn (G.W2)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	4916.5	21.	0.000	163.952	0.765	-204.940	0.264	0.264	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	5500.	1.00	1.265	0.71	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
91West Perim Zn (G.W4)	1563.	0.	0.000	0.001	0.	0.00	0.00	35.46	-42.21	-21.10	1.
91SW Perim Zn (G.SW5)	437.	0.	0.000	0.001	0.	0.00	0.00	9.90	-11.79	-5.90	1.
91South Perim Zn (G.S6)	1121.	0.	0.000	0.001	0.	0.00	0.00	25.44	-30.28	-15.14	1.
91Core Zn (G.C7)	261.	0.	0.000	0.001	0.	0.00	0.00	5.92	-7.05	-3.52	1.
91Core Zn (G.C8)	207.	0.	0.000	0.001	0.	0.00	0.00	4.68	-5.58	-2.79	1.
91Core Zn (G.C9)	290.	0.	0.000	0.001	0.	0.00	0.00	6.57	-7.82	-3.91	1.
91ESE Perim Zn (G.ESE11)	1621.	0.	0.000	0.001	0.	0.00	0.00	36.77	-43.77	-21.89	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVAVS	1.000	4498.6	13.	0.000	319.285	0.780	-454.647	0.264	0.232	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	11000.	1.00	2.442	0.69	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
92West Perim Zn (G.W4)	3994.	0.	0.000	0.001	0.	0.00	0.00	90.57	-107.82	-53.91
92South Perim Zn (G.S6)	2865.	0.	0.000	0.001	0.	0.00	0.00	64.98	-77.35	-38.68
92ESE Perim Zn (G.ESE11)	4142.	0.	0.000	0.001	0.	0.00	0.00	93.93	-111.82	-55.91
92SW Perim Zn (G.SW5)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
92Core Zn (G.C9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVAVS	1.000	14195.9	16.	0.000	695.375	0.782	-869.219	0.235	0.235	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	24000.	1.00	5.856	0.75	0.0	0.00	0.00	DRAW-THRU	SPEED	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
92Core Zn (G.C7)	739.	0.	0.000	0.001	0.	0.00	0.00	16.75	-19.95	-9.97	1.
92Core Zn (G.C8)	735.	0.	0.000	0.001	0.	0.00	0.00	16.67	-19.84	-9.92	1.
93MERZn	11263.	0.	0.000	0.001	0.	0.00	0.00	255.45	-304.11	-152.05	2.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PSZ	1.000	5878.0	6.	1.000	199.606	0.528	-159.685	0.250	0.313	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
1519Core Zn (M.C19)	333.	0.	0.000	1.000	333.	0.00	0.00	7.56	0.00	-1.80	5.
1519Core Zn (G.C5)	333.	0.	0.000	1.000	333.	0.00	0.00	7.56	0.00	5.40	3.
1519Core Zn (T.C33)	333.	0.	0.000	1.000	333.	0.00	0.00	7.56	0.00	5.40	1.



SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	4571.8	5.	1.000	202.585	0.520	-162.068	0.250	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
2026Core Zn (G.C5)	429.	0.	0.000	1.000	429.	0.00	0.00	9.72	0.00	-2.31	
2026Core Zn (M.C19)	429.	0.	0.000	1.000	429.	0.00	0.00	9.72	0.00	6.94	
2026Core Zn (T.C33)	429.	0.	0.000	1.000	429.	0.00	0.00	9.72	0.00	6.94	



SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	11756.0	12.	1.000	202.585	0.520	-162.068	0.250	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	3000.	1.00	2.796	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZO
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MU
28Core Zn (G.C4)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	-0.90	
2936Core Zn (M.C17)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	2.70	
3744Core Zn (M.C17)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	2.70	
45Core Zn (T.C30)	167.	0.	0.000	1.000	167.	0.00	0.00	3.78	0.00	2.70	

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	10808.6	11.	1.000	253.231	0.520	-202.585	0.250	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	3750.	1.00	3.495	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
4856Core Zn (M.C25)	197.	0.	0.000	1.000	197.	0.00	0.00	4.48	0.00	-1.07	
5765Core Zn (M.C25)	197.	0.	0.000	1.000	197.	0.00	0.00	4.48	0.00	3.20	
66Core Zn (T.C38)	197.	0.	0.000	1.000	197.	0.00	0.00	4.48	0.00	3.20	



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PSZ	1.000	15364.7	45.	1.000	270.113	0.520	-216.091	0.250	0.313	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	4000.	1.00	3.728	2.88	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
8087Core Zn (M.C23)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	-0.80	8.
68Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
69Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
70Core Zn (G.C11)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
7179Core Zn (M.C23)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	9.
88Core Zn (T.C35)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
89Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	2.
90Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	2.
91Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.
92Core Zn (G.C10)	148.	0.	0.000	1.000	148.	0.00	0.00	3.36	0.00	2.40	1.

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	1026.362	0.518	-584.616	0.178	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	14500.	1.00	19.691	4.20	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	14500.	1.00	1.160	0.25	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
ERU-11-1 Zn	14500.	0.	0.000	1.000	14500.	0.00	0.00	328.86	0.00	-234.90	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PSZ	1.000	10000.0	0.	1.000	724.543	0.518	-412.700	0.178	0.313	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	10000.	1.00	15.810	4.89	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30	
RETURN	10000.	1.00	0.800	0.25	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-27-1 Zn		10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PSZ	1.000	10000.0	0.	1.000	724.543	0.518	-412.700	0.178	0.313	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	10000.	1.00	15.810	4.89	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30	
RETURN	10000.	1.00	0.800	0.25	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONING MULT
ERU-27-2 Zn		10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	724.543	0.518	-412.700	0.178	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	10000.	1.00	15.810	4.89	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	10000.	1.00	0.900	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZO
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MU
ERU-46-1 Zn	10000.	0.	0.000	1.000	10000.	0.00	0.00	226.80	0.00	-162.00	

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
ERU-46-2 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40
										1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30	
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-67-1 Zn		12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZO
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MU
ERU-67-2 Zn	12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	



SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PSZ	1.000	10000.0	0.	1.000	861.297	0.518	-490.595	0.178	0.313	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	12000.	1.00	17.880	4.60	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.10	0.30	
RETURN	12000.	1.00	1.080	0.28	0.0	0.00	0.00	RETURN	CONSTANT	1.10	0.30	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
ERU-91-1 Zn		12000.	0.	0.000	1.000	12000.	0.00	0.00	272.16	0.00	-194.40	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
FC	1.000	43345.2	16.	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	16404.	0.00	0.000	0.22	0.0	0.00	0.00	BLOW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
90NNW Perim Zn (G.NNW1)	1083.	0.	0.076	1.000	0.	36.01	0.71	24.28	-50.74	-40.84	2.
90NE Perim Zn (G.NE2)	589.	0.	0.041	1.000	0.	19.57	0.71	13.21	-27.60	-22.22	2.
90ESE Perim Zn (G.ESE3)	825.	0.	0.058	1.000	0.	27.40	0.71	18.49	-38.64	-31.10	2.
90West Perim Zn (G.W4)	1607.	0.	0.112	1.000	0.	53.27	0.71	36.03	-75.30	-60.62	2.
90SW Perim Zn (G.SW5)	449.	0.	0.031	1.000	0.	14.92	0.71	10.07	-21.04	-16.93	2.
90South Perim Zn (G.S6)	1153.	0.	0.081	1.000	0.	38.31	0.71	25.85	-54.02	-43.49	2.
91NNW Perim Zn (G.NNW1)	1083.	0.	0.076	1.000	0.	35.92	0.71	24.28	-50.74	-40.84	1.
91NE Perim Zn (G.NE2)	589.	0.	0.041	1.000	0.	19.57	0.71	13.21	-27.60	-22.22	1.
91Core Zn (G.C3)	825.	0.	0.058	1.000	0.	27.23	0.71	18.49	-38.64	-31.10	1.
92NNW Perim Zn (G.NNW1)	1083.	0.	0.076	1.000	0.	35.92	0.71	24.28	-50.74	-40.84	1.
92NE Perim Zn (G.NE2)	589.	0.	0.041	1.000	0.	19.57	0.71	13.21	-27.60	-22.22	1.
92Core Zn (G.C3)	825.	0.	0.058	1.000	0.	27.23	0.71	18.49	-38.64	-31.10	1.
90Core Zn (G.C7)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
90Core Zn (G.C8)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
90ESE Perim Zn (G.ESE9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
90Pl Zn (G.11)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.
91Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
92Pl Zn (G.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.