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Method for Testing and Classifying the Effect of the Modeler on Building Energy Simulation Results

by

Pamela Marie Berkeley

A dissertation submitted in partial satisfaction of the requirements for the degree of Doctor of Philosophy

in

Engineering - Mechanical Engineering

in the

Graduate Division

of the

University of California, Berkeley

Committee in charge:

Professor Van P. Carey, Chair Professor Gail S. Brager Professor Paul K. Wright Philip Haves, Ph.D.

Fall 2013

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Abstract

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University of California, Berkeley

Professor Van P. Carey, Chair

Concerns about global resource management and environmental conservation have drawn attention to the large amounts of energy used by buildings and the resulting impact on the environment. Building Energy Simulation (BES) programs play a crucial role in efforts to reduce energy use by the built environment. However, BES has many areas where sources of uncertainty may enter into the process and propagate to the results. In order for BES to reach its full potential for aiding in energy reduction efforts, a better understanding of the uncertainty in simulation results is required. Much research has been done to uncover the nature of these sources of uncertainty and additional work has been done to explore how the sources of uncertainty interact and propagate to the final simulation program output. Despite the extensive work already conducted on the topic of BES uncertainty, very little research has been done to investigate the effect of the building energy modeler on simulation results. This dissertation research explores the role of the modeler in the uncertainty of BES results, and establishes a testing methodology and classification system for sources of modeler variability. It additionally makes specific recommendations for the mitigation of each class of modeler variability.

A study was conducted where 12 professional building energy modelers were provided with identical building plans and asked to create a model of the building, in the BES program eQUEST, in accordance with their typical modeling habits. The building chosen for the modeling task was a single story school administrative building with a vaulted lobby, and it was located in California Climate Zone 4, the climate zone local to the sample of modelers. Time to complete the modeling task was limited to 3 hours to impose time pressure on the participants to expose how modelers prioritize different modeling tasks. All participants submitted the input and output files of the simulation for further analysis. Demographic information on the modelers was collected to determine if modeling decisions were linked to modeler background.

Various forms of analyses were employed to explore the study data and to develop a classification method for modeler variability. A one-at-a-time factor analysis (OAT) applied

modeler decisions to a best-practices baseline model to assess the effect of individual participant decisions on simulation results. Monte Carlo sampling was applied to the set of participant decisions to create 200 input files that were hybrids of randomly chosen participant decisions. The results of this Monte Carlo analysis yielded the effect of modeler decisions in combination with all other modeler decisions. Classification trees were applied to the Monte Carlo data to investigate the interaction between modeler decisions. Random forests were applied to the Monte Carlo data to more robustly assess interaction effects. In the OAT, classification tree, and random forest analyses, the decision of how to represent the HVAC systems consistently was the most significant, so classification trees and random forests were applied to the individual HVAC system decisions to determine interaction effects with these parameters. Multiple Correspondence Analysis (MCA) plots were generated to explore any potential correlations between modeler background and modeler decisions.

A combination of the results of the OAT analysis and the random forest analysis yielded 3 basic classes of variability introduced by modelers. A high OAT impact and low random forest impact indicated that modeler decisions in that category differed from the best practices model consistently but had little impact on energy results when combined with other modeler decisions. Low OAT impact and high random forest impact categories were where modelers varied widely in their decisions; the decisions had very little effect on the baseline model on their own but had a large impact on results when combined with other modeler decisions. The final class of modeler variability was characterized by high OAT impact and high random forest impact. In this category, participant decisions varied greatly from each other and from the baseline model setting, and had a large impact on energy results independently and in combination with other modeler decisions. The MCA plots showed little correlation between modeler decisions and modeler background.

Future work needs to be conducted to confirm the classification system described above. Tests can be conducted on larger samples of modelers, on different sizes and types of buildings, on modelers and buildings in different climate zones, and in a variation of testing procedures. Furthermore, modeler variability mitigation tactics can be applied to the simulation process for each of the classes of variability to assess whether a reduction in modeler variability results from the mitigation tactics. For all the helpful

and supportive ones out there

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Chapter 1 Introduction

Recent concerns about global resource management and environmental conservation have drawn attention to the large amounts of energy used by buildings and the resulting impact on the environment. This chapter first explains the basics of building energy use, how building energy simulation programs function, and how these simulations could serve to reduce energy use (Section 1.1). The chapter then moves on to discuss barriers to relying on simulation predictions (Section 1.2) and investigations into these barriers (Section 1.3). Finally, it explains the motivation and context for the research presented in this thesis (Section 1.4).

1.1 Background

Buildings exist to provide shelter and a controlled environment that has particular amenities. Built environments are typically designed to maintain a specific range of air temperatures. provide a certain amount of light, and accommodate occupant needs for hot and cold water and electricity. Specific buildings may exclude some of these features (such as a warehouse that does not require temperature control) or incorporate additional features (like a gas stove in a residential building), but building energy use is predominantly governed by these basic constraints. The primary needs for energy use in buildings can be split between direct and indirect needs. The direct needs are ones such as lighting, plug loads, and temperaturecontrolled water, where there is a straightforward connection between the use of the utility and the energy used. The indirect needs are the ones where a certain amount of energy is required to fulfill a need that is dependent on a variety of factors. The primary causes of indirect energy needs are heating, ventilation, and air conditioning (HVAC) systems. These systems are required to maintain a specific air temperature (and often humidity level) within the building envelope despite being subject to a changing set of loads and conditions. Figure 1.1 diagrams these flows of mass and energy that enter and leave the building envelope as well as the thermal loads generated within this space.

Buildings in climates with a large variation between seasons will have different energy



Figure 1.1: Diagram of the mass and energy flows across the building envelope and the loads generated within the building. The arrows represent energy flows and the rounded blocks represent energy generation terms. The color green identifies all the advective terms.

use patterns than those in moderate climates. When the climate requires the building to be heated for a significant portion of the year, internal loads will offset heating energy requirements. Buildings in climates where cooling requirements dominate energy needs will see an increase in energy use when internal loads increase. Building geometry will also play a role in determining the effect of loads on the building; buildings with a shallow floor plan (that is, buildings where all parts of the building are close to the outside environment) will see less of an effect on cooling energy requirements with an increase in internal loads than will a building with a deep floor plan; the opposite is true for heating requirements. Building mass generally reduces energy needs, as it slows down the responsiveness of the building to variations in weather and acts as a storage mechanism for the energy used to condition the building to a certain temperature.

Building Energy Simulation (BES) programs are designed to model the direct and indirect needs described above, and then run a series of heat and mass transfer calculations to determine how much energy the building will use over a given period of time and under a specific set of conditions. Heat and mass transfer equations rely on the triad of energy flows that cross the control volume - radiation, conduction, and convection - and the energy generated within the control volume, i.e. the loads. In the case of the building envelope as the control volume, the conduction and radiation are governed by the weather conditions of the outside environment (see Figure 1.1 again). A "weather file" sets these conditions for use by the BES program by containing basic measurements such as temperature, wind speed, and insolation at regular time intervals; the program calls on the values whenever a calculation requires them. Conduction terms are linearly scaled to account for the thermal properties of the building envelope (that is, the thermal conductivity of the exterior surfaces). Radiation terms are modified to appropriately account for components that are reflected off of, absorbed by, or transmitted through the building envelope. A BES program may or may not take into account the convective gains or losses across the surface of the building envelope that are caused by the wind. Rather, the advection of air from the outside is modeled by infiltration terms, which define a certain quantity of outside air to have entered the building envelope over a given period of time. Outside air taken in by the HVAC system (or a natural ventilation scheme) is similarly modeled as a rate of intake of air at outside conditions. Other advective terms for buildings typically include people (people bring energy into the building with them when they enter and take it when they leave) and supply water. Loads within a building are typically generated by the metabolic processes of the people, sunlight that has been transmitted through the envelope, and the waste heat from the electricity used by lights and equipment. The BES program will balance all of these conditions at each time step before advancing to the next set of conditions. It will ultimately output a report of building conditions, loads, and energy uses over the simulation period. (See [15] for an overview of the capabilities of 20 major BES programs).

In order to model the above phenomena, BES programs require inputs for building geometry and material properties, electrical loads, occupancy, and airside and waterside HVAC equipment (in addition to the weather files mentioned above). Architectural plans for the building (including Computer Aided Design files, or CAD files) are the typical source for building geometry. Building material properties are usually obtained from the ASHRAE Fundamentals handbook [4] and any local energy codes (such as California's Title 24 requirements [1]). Electrical loads caused by lights are found in the lighting plans for buildings provided by architectural firms, and electrical loads are estimated by the ASHRAE Fundamentals handbook [4]. Descriptions of airside HVAC equipment are found in the mechanical plans and schedules produced by architectural firms, and waterside HVAC equipment may or may not be included in these plans. Simulation programs have libraries of material properties and typically provide default values for all of the above listed parameters. Schedules for occupancy and electrical loads are often unknown during modeling, but simulation programs provide default schedules that align with regular working hours.

Energy predictions as provided by BES programs are useful for a range of energy and cost conservation measures. BES programs are being used in the design, certification, and operations and management of buildings and building components, and have the potential to be used in the budgeting for and the marketing of buildings. Building design can be guided by BES predictions in order to determine the most effective measures to reduce energy use at a given price point (e.g. the same building design can be rotated through 360 degrees to determine the most energy efficient orientation). BES predictions could also be used to determine the feasibility of a new type of air conditioning system for a building [5]. Energy simulations are required for energy efficient building certification programs such as Leadership in Energy and Environmental Design (LEED). Building operations and management could be alerted to the need for repairs (or retro-commissioning) by deviations between BES predictions and building performance. Inquisitive and adventurous building managers could even conduct experiments where a BES provides the baseline off of which adjustments to building management could be compared (e.g. pre-cooling of the building before operating hours to reduce peak cooling demand). Building tenants can use BES predictions to estimate future utility bills for budgeting purposes, and building owners could potentially use BES predictions as a marketing tactic to promote the cost savings associated with renting their buildings [20]. All of these uses rely on the accuracy of the simulation results, as discussed in the following section.

1.2 Barriers to the use of simulation results

Although the heat and mass transfer theory that forms the backbone of BES program calculations is firmly established, BES programs do not yet provide reliable predictions of the energy used by actual buildings. The problems with reliability have been shown to affect all of the actively used cases for BES programs described in the final paragraph of the previous section. Lomas et al have established that it is not reasonable to assume that simulations are any more accurate at assessing differences in energy use than they are at determining overall energy use [52]; in their BES validation exercise they studied the difference in temperature between a double-glazed and an opaque room and the values predicted by various simulation programs. The programs varied greatly in the predicted differences between these design alternatives and did not match the measured temperature difference, which raises concern about using BES programs for design comparison. Frankel and Turner [24] reviewed New Buildings Institute (NBI) data on new LEED certified buildings and found some correlation between LEED scores (and by extension BES predicted energy use) and improved energy efficiency, and that on a whole, buildings within a given use category performed close to expectations. However, the spread of the data left a large portion of buildings in a position where their actual energy use far exceeded what was predicted by modeling. Newsham et al [59] re-analyzed the same NBI data set with particular attention paid to assessing whether LEED baselines (that is, the same building with properties following ASHRAE 90.1, Appendix G standard schedules [70]) as assigned were reasonable for a given building (LEED awards points for predicted energy savings beyond the assigned baseline energy use). They found that the essential conclusions of the Frankel and Turner [24] study still held true - on a whole, LEED certified buildings performed better than the baseline, but that 21% of the buildings performed worse than the baseline cases. Scofield re-analyzed this same data [67] and called into question whether any statistically significant improvement over baseline exists for any of the LEED buildings. A study on the use of BES for operations and management in which a model was calibrated to an extensively monitored building found that the calibrated model was not accurate within the range of the demand response savings [18]. These studies collectively indicate that there is a need for a systematic investigation into and an improvement of BES predictive abilities and a clarification of what simulations are and are not capable of providing the user.

1.3 Uncertainty and variability in Building Energy Simulation results

The discussion of the current limitations of BES predictions must begin with the recognition that inconsistencies and variations between buildings and their conditions prevent definitive single-valued predictions of energy use. Despite this, the current practice in the BES community is to present results as a single-valued representation of expected energy use. Williamson [76] discusses the ethics of moving away from framing simulation results as definitive predictions and to instead begin to view them as a nuanced description of possible energy use outcomes arising from a range of potential building conditions.

Before the BES community can adopt this more nuanced approach to simulation results, it is necessary to have an established methodology for characterizing potential input conditions, incorporating the range of these potential inputs into the simulation program functions, and presenting the results to the user. Roy and Oberkampf [64] provide a methodology for this process for scientific computing in general, and make the distinction between input uncertainties that arise from known and unknown distributions of values. The field of BES research has adopted the same categorizations but often uses the terms "variability" and "uncertainty" to respectively describe known and unknown distributions of values. A range of research has been initiated into the identification of significant sources of uncertainty and variability for BES. Eisenhower et al. [21] performed an extensive sensitivity analysis where nearly 1000 parameters were varied over nominal ranges and sampled for a Monte Carlo analysis of uncertainty in simulation results. The results were analyzed using analysis of variance (ANOVA) in order to determine paths of uncertainty propagation from sampled input variables.

The first place one might look for sources of unreliability in simulation results are the simulation programs themselves. A common and simple approach to the validation of simulation predictions is typically the comparison of simulation results to the true performance of the system. However, real buildings have not been thoroughly studied because they are unique in construction, microclimate, and use. Additionally, data necessary to completely or even adequately describe the state of real buildings are rarely collected due to the large financial and temporal investments required. Due to the aforementioned difficulties in determining data from complex, occupied buildings in normal use mode, empirical validations of simulation programs have largely been conducted in unoccupied, simple, experimentally

controlled buildings [52, 58]. Studies on both calibrated and uncalibrated simulations of occupied buildings (calibrated models have been adjusted to improve the match between simulation outputs and actual energy performance) are limited in quantity and scope [3, 18]. It is therefore currently impractical to rely on empirical methods to validate simulation programs.

Instead of empirical validation, a large body of research has emerged for computational validation of simulation programs. Rigorous standards have been developed by which BES programs can be assessed and improved. The leading guidelines are ASHRAE Standard 140 [40] and various forms of the Building Energy Simulation Test, or BESTEST [37, 39]. Tabares-Velasco and Griffith assess the primary features of BES testing methods, and determine that they primarily seek out algorithmic difference, modeling limitations, and coding and input errors; they add to this list the need to assess the numerical methods and convergence criteria employed by the programs [72]. Nevertheless, the application of BESTEST to simulation programs reduced cross-program differences in specific areas of energy prediction from 4-40% to less than 1% [60]. A different study investigated prediction errors exposed by BESTEST in a specific BES program and found similar changes in energy predictions after the correction of errors [79]. The results of these studies indicate that it is reasonable to assume that a specific BES program will not provide significantly different predictions from any other BES program that has also been subjected to the testing methodologies put forth.

With effective screening procedures in place to remove simulation programs as primary sources of unreliability, the focus instead turns to characterizing uncertainties and variability in simulation inputs. Some efforts have been made to characterize variability profiles for weather (and weather files) [13, 14, 26, 27, 36, 49] and for infiltration rates [22, 69], and to establish uncertainty in building materials [12]. Occupancy and occupant behavior has been treated in both the uncertainty and variability senses [6, 17, 44, 46, 80]. Regression analyses of real buildings and sensitivity analyses of simulation programs are often employed to determine the major sources of uncertainty and variability [21, 29, 45, 75, 78]. But while there is a growing body of literature on the uncertainty and variability of simulation inputs and on sensitivities of buildings and simulations to assumed distributions of variability and ranges of uncertainty, de Wit and Augenbroe [77] indicate that true profiles for parameter distributions are still largely unknown.

A research team at Georgia Institute of Technology has thoroughly investigated the sources of uncertainty in BES described above, and has created a workbench that facilitates the analysis of uncertainty in BES [48]. The workbench contains a database of uncertainty distributions for models and model parameters that have been quantified in the research, and uses these profiles to propagate uncertainty to the simulation results. The results of these uncertainty analyses yield information in the format described in the opening of this section as being the most accurate portrayal of what simulation has to offer. However, missing from the database of quantified uncertainty parameters is the effect of the modeler; communication with this team of researchers resulted in the focus of this dissertation, which will be discussed in the section below.

1.4 Why study the modelers?

Nearly all of the research conducted in this field has assumed a perfect transition from knowledge of building conditions to BES program function. Figure 1.2 is a typical example of how the simulation process is represented in literature. However, this is never the case - modelers are provided with building information and the goal of the simulation and then are responsible for manipulating this knowledge into the form of a building energy model to be processed by the BES program. Building energy modelers are thus a critical component of the simulation process, which makes Figure 1.3 a more accurate representation of simulation workflow.

Any analysis of the performance of simulation programs that draws conclusions on the link between input data and simulation outcomes but neglects to factor in the role of the modeler is prone to specious conclusions (much like neglecting friction in a physics problem on rolling motion). The studies on NBI data [24, 59, 67], for example, are meant to primarily be critiques of simulation programs but not indicators of variation in modeler performance, despite the fact that many different modelers were responsible for creating the data collected by NBI. Studies like those conducted by Ahmad and Culp [3], where a single modeler generates simulations that are compared against building energy use data, are particularly subject to confounding the effects caused by model input and simulation program function with that of the modeler. In research that focuses on individual branches displayed in Figure 1.2 the role of the modeler is not directly important, but tangential lines of research in these areas would develop if the role of the modeler as a result, and simulation program interfaces might drastically change to minimize variation between modelers.

Some preliminary research has been performed to assess how modelers adapt building data for interpretation by simulation programs. Many of these studies have been performed in educational settings, perhaps because it allows for the otherwise rare scenario of having a group of modelers with large portions of time to dedicate to creating a model for a study. One such paper discusses the results of teaching quality assurance measures to graduate and undergraduate students by having them perform part of the BESTEST procedure [30]. Ibarra and Reinhart performed a study to assess the daylighting models created by students who were new to this type of simulation [34]. Guyon devised a study where users with different backgrounds and levels of simulation experience created models of the same residential building [28]. All of these studies indicate that modelers play a significant role in simulation output, but they all leave room for further investigation. Particularly noticeable is the absence of research into commercial buildings being modeled by professionals in the field. There is additional room to investigate the links between modeler background and simulation output, systematically compare modeler decisions across input categories, and establish a testing procedure for not only modelers but also for BES interfaces and general BES workflow.



Figure 1.2: The simulation process as typically represented in literature (taken from [54].)



Figure 1.3: A more accurate portrayal of the simulation process, which includes the role of the modeler.

1.5 Organization

The research presented in this dissertation aims to contribute to the slowly growing pool of evidence on modeler-induced variation, and to lay the framework for a testing methodology for the modelers and the interactions they have with building data and simulation programs. The following chapters will describe the procedure for the modeler variability study (Chapter 2) and the methodology used to analyze the data (Chapter 3). Preparation of the data from this study for use in the analysis will be detailed in Chapter 4. A description of the analysis itself and the presentation of results will then follow in Chapter 5). The implications of the study are then discussed (Chapter 6) and conclusions and recommendations for future work are given (Chapter 7). Nomenclature of commonly used built environment and simulation terminology is included in Appendix A.

Chapter 2

Procedure for Collection of Data on Modeler Variability

In order to separate the effect of the modeler on building energy simulation results from all other factors involved in simulating building energy performance it was necessary to conduct an experiment in which a group of professional modelers constructed models from the same building plans. This chapter details the experimental setup and discusses how the setup was designed to generate results representative of the work being done by modelers in the field.

Procedures for this experiment were based on social science research principles and were required to follow a human subjects protocol. The social science methods provide the backdrop to the technical focus of this thesis so they will be briefly discussed in Section 2.6. Those familiar with these topics will find allusions to these methods and protocols throughout the explanation of experimental procedure that follows.

2.1 Recruitment of participants

Participants were recruited through emails to the list serves of the Pacific Energy Center, the International Building Performance Simulation Association San Francisco (IBPSA-SF) chapter, and the local ASHRAE chapter. These emailing lists are subscribed to almost exclusively by the study's target population - professional building energy simulation users. The respective emailing list subscriptions are optional and the organizations involved had no control over the careers of the participants. Administrators of these mailing lists provided letters of cooperation for use of the mailing list for recruitment for the study as required by the Committee for Protection of Human Subjects (CPHS).

The recruitment emails indicated that participants should be experienced in eQUEST (see Appendix B for an explanation of eQUEST) and that they would be given a short modeling project to complete during the 4 hours of the study event (Appendix C.1 has the text of the email). EQUEST was chosen as the simulation program for the study due to the large population of eQUEST users in the local professional simulation community and

the program features that enable a modeling project to be completed rapidly (as discussed in Section 2.3). Participants were incentivized to attend through a chance to win a copy of the newly published book Building Performance Simulation for Design and Operation [31]. All participants were offered a year's free access to the online journal Building Performance Simulation, and were told they would receive a free meal and refreshments during the study. Two expert speakers in building energy simulation were lined up to serve as the educational portion of the evening. Appeals were made to the potential participants' interest in advancing the knowledge of the building energy performance field through contributing to an improved understanding of the modeler's role in simulation results. Participants were also notified that they could opt into receiving individualized feedback about their modeling at some point after the study.

These forms of compensation did not cause undue influence to participate in this study. Modelers typically consult on jobs that are identical to the work they performed in the study at significantly higher compensation rates. The book offered as compensation was highly relevant to the study population, but would only be won by a single participant. Journal access was only a moderate perk to the study population - the journal is relevant to their field but more academic than most professional modelers are interested in. The free meal was primarily a practical incentive due to the duration of the planned event. The educational sessions after the study were typical to activities held by both IBPSA and the Pacific Energy Center, and are a common reason for the recruited pool to show up to events; however, these events are also commonly free, and are consequently not undue influence. The educational nature of the speakers allowed potential participants to log hours spent at the study as professional development, but non-participants were free to show up to the educational sessions and it was in no way linked to study participation. Interest in contributing to the advancement of knowledge had no tangible reward and was entirely internal to potential participants.

Interested individuals replied through an RSVP form that allowed them to obtain additional information about the study event closer to the date of the study. In the follow-up emails, participants were told that they would need to bring a laptop with a working copy of eQUEST to the event in order to participate, but could ask in advance for a loaner laptop. Finalized commitments to attend were not required until a few days prior to the event. Responses numbered 24, and 21 people said they would attend both the study and the speaker sessions afterwards. On the day of the study, 13 people showed up for the study portion, but one person did not have a laptop available for the modeling task and consequently was not able to participate in the study.

2.2 Experimental procedure

On the day of the study, participants arrived at the Pacific Energy Center in San Francisco with their own laptops and were briefed on the purpose and nature of the study. They were given consent forms to sign prior to obtaining the study materials. A website containing study

materials and instructions had previously been set up and wireless internet was available to participants for access to the study website (detailed explanations of study materials and instructions are in the following section, 2.3). Internet access was additionally available for the purpose of allowing participants to look up any necessary information while completing the study. Although there was a technical issue with the wireless internet, it was resolved in enough time for most participants to download the study material prior to the study start time. Those who did not have access to the internet by the study start time were provided with a copy of the material by means of a flash drive. In addition to the digital material provided to participants, 11 by 17 inch printouts of the building floor plan were handed out. These printouts were meant to facilitate note-taking by participants and as a vehicle for their three digit anonymous participant number. Participants were asked to keep a log of their thought process during the study or to write up notes afterwards, to be turned in with their completed model files. Participants were additionally asked to complete a demographic survey on their educational and professional backgrounds. They had the option of including their email address for follow-up questions and feedback on their model, and were warned that the confidentiality of their results could not be guaranteed if they decided to provide the email address.

The drawing for the book was conducted prior to the start of the study, and participants were able to sign up for journal access through the website with no link to their participant number and therefore no link to their study data. It was announced that participants could elect to opt out of the study at any point but would still get to keep the copy of the book (if they won it) and get journal access.

Participants had three hours to complete their models. At the conclusion of these three hours, participants were asked to turn in the PD2, INP, SIM, and CSV files from their simulation runs (explanations of these files are provided in the section on data collection below, Section 2.4, in Table 2.3). In order to collect the data, a flash drive was passed around with empty folders labeled with each participant number. Participants were instructed to put the requested files into the appropriate folder.

Following the conclusion of data collection, participants had an hour and a half for dinner and speakers sessions. During this time, the data were compiled into figures representing the electrical and gas energy use, respectively, of each participant's monthly values. At the conclusion of the speaker sessions the results were presented to the participants, the speakers, and a few additional people who had attended only the speaker sessions. A discussion of these preliminary results occurred following their presentation.

2.3 Study materials and instructions

In order for this study to successfully replicate the conditions faced by modelers on a typical modeling project, it was necessary to find a building that was simple enough to be completed in the limited three hour timeframe of the study but complex enough that modelers would distinguish themselves in their modeling decisions. Partially completed models or excessively

rushed models would not be useful for analysis because the results would skew towards model defaults and gross oversimplifications. An overly simple building would not prompt modelers to make judgments and rely on their expertise in order to complete the project in time. An expert modeler was consulted to find such a project [41]. The appropriate building was chosen to be a single story school administrative building with a vaulted lobby. There were roughly 17 rooms, with one of these rooms containing a partial wall (see building plans in Appendix C.2). The geometry of the building footprint was not rectangular, which would have greatly simplified the modeling task. There were four packaged single zone HVAC units for the building, with four separate exhaust fans and two split system AC units. The lighting plans for the building included interior and exterior lights, with some of the interior lights denoted as emergency lighting.

Building data provided to participants replicated the information provided to modelers in the field. The architectural firm that provided the plans required that the project title and firm information be removed from the files given to participants (the project title would have indicated that the building was for a school). As a result, there was this minor deviation from information that was typically available. Five PDF files were provided to the participants: architectural plans, lighting plans, the lighting schedule, mechanical plans, and the mechanical schedule (see Figure 2.1 for floor plans, Table 2.1 for explanations, and Appendix C.2 for all study files provided to participants). Additionally, participants were given the CAD floor plans, which would enable them to easily import floor plan data into eQUEST if they chose to do so. The lighting plans had most of the lighting fixtures highlighted (although a few were accidentally not highlighted) in order to facilitate perusal by participants as the file was not provided in hard copy and therefore could not easily be annotated. The lighting schedule had many extra fixtures included as it was originally created for multiple buildings, so unused fixtures were grayed out. However, an error was made in reading the fixture labels and a used fixture was accidentally graved out (although it was still legible to participants). Participants were told that the building was located in the San Jose California Climate Zone (CZ04) and that this weather file should be used. Participants were not provided with detailed construction information (wall, window, roof, and flooring construction, primarily) because these are typically not provided to modelers and must be requested if desired.

The instructions in Figure 2.2 were provided verbatim to the participants on the study website (see Appendix C.3 for screenshots of each website page). Verbal instructions to participants duplicated this message. Additionally, participants were told to approach this as they commonly would in their jobs, and to use their own judgment as to whether an appropriate approach would be to model the building for design purposes or general analysis. Ultimately, the instructions were intended to expose the decision making processes of modelers rather than put them in an overly controlled experiment that did not match what they experienced in their daily jobs.

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Figure 2.1: Floor plan from the architectural drawings provided to participants. (This was the page that was printed out for them).

Table 2.1: Explanation of material provided to study participants.

Material	Description		
Architectural plans	Drawings that represent the architecture of the building and include floor plan, elevation, and roof plan views. Major dimensions are displayed.		
Lighting plans	An architectural floor plan with an overlay of electrical drawings showing the location and wiring of light fixtures within rooms. Each light fixture has a symbol for referencing the lighting schedule.		
Lighting scheduleA table that includes light fixture symbols and key information the light fixtures, including wattage.			
Mechanical plans	An architectural floor plan with an overlay of drawings of HVAC equipment. The plans indicate where systems feed rooms and which rooms they feed into, and where the thermostat for the system is located. Each HVAC system has a label for referencing in the mechanical schedule.		
Mechanical schedule	A table that includes the labels of the HVAC systems and key information about each unit.		
CAD file	The CAD (Computer Aided Design) file for the building floor plan. This file can be imported into eQUEST to facilitate the entry of a custom floor plan.		

An important part of this exercise will be how you budget your time on the simulation task. Direct the most attention towards the areas on the simulation you believe are the most important if you are running short on time. If you feel like you need additional information at any point, don't hesitate to ask.

Your tasks during the study include:

- Generate and run an eQUEST model based on the building information provided under "Files for Simulation Task"
 - You will be asked to turn in the .PD2 and .INP input files and the .SIM and .CSV output files. The name of the files should include the convention "PN##", where ### is replaced by your three digit participant number.

• Keep a log of any key modeling decisions

 Create a text file to keep these notes in, and include the "PN###" naming convention in the title. These notes do not have to be extensive - stray thoughts will do. You may also write this out on paper, with your participant number written on the top.

• Fill out the demographic survey

 This can be filled out online, from the link titled 'Demographic Survey". If you would prefer a paper copy to fill out, we have some on hand.

Figure 2.2: Instructions provided to participants on study website.

2.4 Data collection, preliminary analysis, and discussion with participants

Demographic information was gathered by means of an online form. All participants completed the demographic survey at some point during or after the study conclusion. The demographic data collected was geared towards finding answers to the questions of whether modeler educational background, duration and nature of experience in building energy modeling, or training and experience with a particular modeling program had any effect on modeling decisions. Participants also had an opportunity to provide any information they felt was not covered by survey questions. Survey questions are listed in Table 2.2, and a duplication of the survey, including detailed instructions and answer options, is included in Appendix C.3.

Table 2.3 provides explanations of the four file types requested of participants for completion of the study, as denoted by their file extensions: PD2, INP, SIM, and CSV (eQUEST consistently applies the saved project name as the file name). EQUEST relies on two input files: PD2 files contain a record of Wizard inputs, but do not contain any edits made in detailed mode (see Appendix B for an explanation of eQUEST input modes); Wizard mode edits and detailed mode edits are all contained within the INP files (a DOE 2.2 input file), but do not contain a record of which data was input via the Wizard. Collecting both of these input files from participants allowed for an analysis of to what extent modelers relied on Wizard inputs as well as the complete final state of the model with detailed inputs included. Detailed simulation output information is contained in the SIM file, while a summary of the monthly lighting and gas energy use is summarized in the CSV file. Both the CSV and SIM files could be quickly and easily recreated with the possession of a given model's INP and PD2 files. However, having participants provide the output files allowed for confirmation of results between their input and output files (in case they ran the model multiple times and submitted mismatched files). The CSV files were useful for the rapid preliminary analysis conducted during the study event. And fortuitously, the inclusion of the SIM file format allowed for a reasonable reconstruction of an accidentally blank INP file that was submitted by one participant (approximate recreation of this missing INP file is discussed in the Appendix D. The anonymity required by the human subjects protocol meant that the participant's identity was not known after the conclusion of the study and therefore retrieval of the original file was not possible).

Participants who had kept logs of their thought processes turned them in as they were leaving. Three participants turned in thought process descriptions; insight into the thought processes of these three modelers will be brought up as relevant.

Figure 2.3 and Figure 2.4 contain the charts created the night of the study that were discussed by participants and other parties present. The discussion of these results primarily centered on interest in what the root causes of variation were, as the reasons were not immediately apparent to participants who largely only knew about the model they created, but not how it compared to the models of fellow participants. Some participants noted



Figure 2.3: Plot of monthly electricity usage totals for each participant's file, with monthly standard deviation values. Participant numbers were obscured for confidentiality reasons (numbers represent the same participant between plots). Note that these plots are provided only as a record of what was shown to participants the night of the study. The data herein will be fully discussed in Chapter 5



Figure 2.4: Plot of monthly gas usage totals for each participant's file, with monthly standard deviation values. Participant numbers were obscured for confidentiality reasons (numbers represent the same participant between plots). Note that these plots are provided only as a record of what was shown to participants the night of the study. The data herein will be fully discussed in Chapter 5

Topic	Questions	
	In which field(s) of study did you receive a bachelor's degree?	
Educational	In which field(s) of study did you receive a master's degree?	
Background	In which field(s) of study did you receive a doctoral degree?	
	Have you had any other education that doesn't fit into these categories?	
	How many years have you worked in building energy simulation?	
Work	What percentage of your job is devoted to building energy simulation?	
Background	What types of buildings do you typically simulate?	
	What other major areas do you work in/have you worked in?	
	How long ago did you start using eQUEST?	
Building	Did you receive any training in eQUEST?	
Simulation Background	What percentage of your building energy simulation tasks are done in eQUEST?	
0	Are you familiar with any other building energy simulation programs?	
	Have you received training in any of these programs?	
	If you feel that any of your answers from the survey may not accurately portray your experience in building energy simulation, please explain the situation here.	

Table 2.2: Overview of demographic survey question asked of participants.

that even though we provided (and announced) the weather file to be San Jose (CA CZ04), they had forgotten to change it to this climate zone. (However, eQUEST defaulted to this climate zone and consequently everybody in the study used the correct climate zone). One participant noted that his electricity consumption numbers fell squarely with the rest of the pack, even though he had drastically simplified the building plans to rectangles and had not imported building plans, while those around him had imported and traced the plans in detail. The most obvious feature of the electricity usage plot was the single participant who had noticed that the building was most likely a school building (based on the room labeling) and reduced the summer schedules accordingly. (Participant logs from the study indicated that another participant had paid attention to the room labeling as well, but had erroneously interpreted them to be describing a medical office). Participants were of the general consensus that they had adequate time to create the modeling project and only one person indicated that any additional time would have led to an altered model.

Table 2.3: Explanations of files collected from participants by eQUEST-assigned file extensions.

File extension	Explanation of file type	Purpose of collection
PD2	The Wizard data input file for eQUEST. Primarily tracks only the Wizard entries that deviate from defaults. Stops recording information when detailed mode is entered.	Useful for tracking what participants decided to edit in the limited Wizard environment vs. in the more advanced detailed edit mode.
INP	DOE 2.2 input file, written in BDL programming language. Final version of participants' models.	As the source of input for the complete version of participants' models, it is required in addition to the PD2 to simulate the final model in eQUEST. Can also be run independently in eQUEST or in DOE 2.2.
SIM	Principle output of a DOE 2.2 model. Contains a large variety of reports on simulation inputs and results.	For inspection of model properties and simulation results, and for confirmation of model created during study.
CSV	Summary of gas and electrical energy consumption by month. All data in this file type is additionally included in reports within SIM file.	The CSV format meant the data could be opened in Excel and rapidly manipulated for use in plots discussed immediately after study (SIM file format not conducive to rapid data extraction).

2.5 Impact of study on participants

Participants may have experienced minimal discomfort from sitting and working on their laptop during the study, but it was unlikely that this discomfort exceeded what their jobs typically exposed them to. They are unlikely to experience a breach in confidentiality due to the anonymous record of their study data, but even with a breach in confidentiality, they are likely to face minimal impact due to the fact that the information shared is largely what they already deal with in their professional setting (it is not uncommon for modelers to discuss the thought process of their modeling style with other professionals). Some subjects, though, may worry about harm to their professional reputation if a breach of results confidentiality should occur.

This study provided no direct benefits to subjects. However, four participants opted to obtain feedback on their modeling methods. The population from which the subjects were taken is likely to be able to use the results of this study to inform their modeling choices and potentially be able to share this information on the accuracy of the simulations with their clients.

2.6 Discussion of experimental procedure

Onwuegbuzie and Leech [61], Bryman [8], and Marshall [56] all discuss the necessity of exploratory studies that improve our understanding of human behavior in order to develop hypotheses that can later be tested by confirmatory studies. This research takes a pragmatic exploratory approach to the study of human subjects, as advocated by Onwuegbuzie and Leech [61], whereby the merits of both qualitative and quantitative research are taken into account. The quantitative techniques are discussed in Chapter 3. The qualitative side of this research largely lies in the assessment of the sample (although the discussion with the participants and the collection of participant logs provided supplemental qualitative research techniques). Marshall [56] explains that in qualitative research, the metrics for evaluating the effectiveness of a sample are not the same as the metrics for evaluating a quantitative sample. Quantitative samples are judged by the size of the sample, and the randomness by which it was acquired; the results of these studies should be generalizable to the entire population. Qualitative samples are judged by the extent to which they provide an "improved understanding of complex human issues" and the results are transferable to situations beyond the one studied. This study was geared at exposing the nature of variability introduced into BES by modelers, and the sample will be assessed by the extent to which an understanding of the variability in the sample is transferable to variability in groups of modelers other than the one studied.

Participant recruitment was successful for the goal of the study. All were professional modelers and were capable of modeling a building in eQUEST, which meant that no data had to be rejected. The study sample was likely to be reasonably close to a representative sample of the local population of modelers, although it was skewed towards those with
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curiosity about their field and younger, newer professionals for whom it was easier or more desirable to attend an evening study. The bias in the participant sample is unlikely to have produced a bias in the results, which will be discussed in further detail in Section 5.7. The sample size of 12 was sufficient to show data saturation [56] in most areas of modeler variability, although a larger sample size could potentially expose more examples of outlier modeler decisions.

Chapter 4 explains the preparation of the study data for analysis. Chapter 6 will discuss the significant trends within this sample, and Chapter 7 will expound on the foundation laid by this experiment.

Chapter 3

Methods for Analyzing Modeler Variability Data

Data from the study on modeler variability from Chapter 2 are varied and rich, and require multiple forms of analysis in order to extract the useful information contained therein. The analytical goals of this study are:

- to determine the sensitivity of simulations to modeler-driven input variation,
- to broadly characterize how modeler decisions affect simulation results,
- to evaluate whether trends in modeler decisions exist, and if so, how this relates to modeler background.

Different forms of statistical methods are required to fulfill the above goal. One-at-a-time analysis (OAT) is commonly used in BES for sensitivity analyses; it exposes the independent effects of each parameter (in this case, modeler decision), as explained in Section 3.1. Monte Carlo analyses are employed as a means of assessing the combined effect of parameters (modeler decisions), the Monte Carlo method used by this research is explained in Section 3.2. The broader dataset generated by the Monte Carlo method can be used by classification trees (and random forests) to provide information on the relative importance of individual decisions when they interact with all other modeler decisions. Classification trees and random forests are explained in Section 3.3. Finally, Multiple Correspondence Analysis is frequently used in the social sciences to determine trends in complicated datasets and will be explained in Section 3.4.

3.1 One-at-a-time (OAT) analysis

Morris [57] popularized the OAT analytical method, which is frequently employed by BES researchers in sensitivity analyses of simulation programs and actual buildings [32, 53, 75].



Figure 3.1: Diagram representing the computational procedure for the OAT analysis. Blue backgrounds represent baseline model inputs, while each other color background denotes the input of a particular participant. Each block of parameters defines a complete building model that is then run by the simulation program.

The name for the one-at-a-time analytical method is very descriptive - one parameter at a time is changed from a baseline value to other values of interest, and the corresponding responses of the system (that is, the simulation outputs) are observed. The input values of interest are typically taken from the distribution of expected input values for the given parameter. Figure 3.1 illustrates OAT as applied to the participant study data. (An overview of actual parameters used in this analysis is provided in Table 5.1 and the results of the analysis are provided in Figure 5.2 and Figure 5.3).

For the particular case of the study data, each parameter in the simulation was changed from a baseline model value to the value obtained from each participant's file. The total predicted energy from the simulation containing the participant's value for that parameter was then compared to the baseline model's total predicted energy use. These differences are recorded for each participant's parameter values, and the mean and a standard deviation of these differences are determined for each input parameter. These two measures (the mean and the standard deviation) provide an expected magnitude of response of the system to modeler inputs and a sense of the output variability based on modeler inputs. This particular application of OAT can therefore be thought of as a sensitivity analysis of model parameters to variability in modeler input decisions.

3.2 Monte Carlo method

While OAT is appropriate for getting an idea of the sensitivity of a model to independent variability in parameters, it does not illuminate the effect of parameters varying concurrently. Judkoff et al. [38] indicate the usefulness for Monte Carlo analyses to determine parameter interaction effects, and many uncertainty analyses of BES programs use this method [21, 53, 62]. The Monte Carlo method is additionally useful for generating a larger data set from the parameter values of a limited original data set. The social sciences frequently make use of Monte Carlo methods when the sample size is limited in order to generate a probabilistic model of the population effects [9, 55, 65]. Lee et al. [49] discuss the use of Monte Carlo methods to generate potential simulation input states from a limited sampling of existing input states (in this case, potential weather years from existing weather year data).

Monte Carlo sampling is performed on data sets that have multiple parameters with a range of potential input values for each parameter. A random sampling is performed to



Parameter value randomly chosen from set

Figure 3.2: Demonstration of Monte Carlo sampling method for investigating interaction and frequency effects in study data.

select from the potential input values for a given parameter; this procedure is repeated for each parameter. A complete set of randomly sampled parameter values then forms the input for a single run of a simulation. The random sampling of all parameters is performed for each desired simulation run. The distribution of input values is decided by the nature of the research - for example, a rectangular distribution can be used to simply test interaction effects, while frequency distributions will incorporate information about the expected frequency of parameter interactions. For this study, frequency of interaction effects were of interest, so participant data were sampled directly from the pool of participant values for a given parameter, as demonstrated in Figure 3.2. Each participant's decisions had an equal likelihood to all other participant decisions. The program that created the Monte Carlo samples called on the random number generator individually for each parameter; it was set to cover a range of 12 and produce integer values. The integer values were then used to access participant numbers from the list of participant numbers; the data from this participant's input file could then be accessed. The results of the Monte Carlo simulations yielded statistics on expected energy predictions in the broader energy modeling population. Additionally, the Monte Carlo run results are of use to the classification tree and random forest methods described in Section 3.3.

3.3 Classification trees and random forests

Classification trees are a statistical method frequently used by the social sciences and biosciences because they are good at finding variables of importance in data with a small sample size relative to the number of variables being studied. The seminal program for classification and regression trees (CART) was developed by Breiman et al. [7]. For this research, the rpart package [73] in R [63] was used; rpart implements similar routines to those popularized by Breiman et al. [7]. Classification trees, however, are prone to overfit predictions to the sample data, in that they force the classification to exactly match the sample data. Random forests use many classification trees, with modifications, to overcome this issue with overfitting. The R randomForest package [51] was used in this analysis. While the sections below provide a description of how these analytical methods were applied to this research, Strobl et al. [71] provide an excellent and detailed overview for both methods.

3.3.1 Classification trees

The input data for classification trees are sets of categorical input values and a categorical or continuous response corresponding to each set. For this research, participant inputs for each parameter were grouped into categories by similarity of values (more on this in Section 3.5). The Monte Carlo simulations can therefore be interpreted to have sampled from a set of categories for each parameter input. The result of a given Monte Carlo simulation run is then the response to a set of categorical input values. Classification tree routines attempt to create a hierarchy of input parameters depending on how well classes of categorical inputs



Figure 3.3: A potential classification tree. In this tree, Parameter x is the most important because of its location immediately following the root (all of the Monte Carlo data). Parameters y and z further split the groupings of data to provide additional refinement on expected values. The expected values represent the average value for the subset of Monte Carlo runs indicated by the classification tree.

to these parameters predict response values. A simple example of this hierarchy is given in Figure 3.3. An explanation of the node splitting routine is provided in the following paragraph.

Figure 3.4 provides a graphical representation of how the classification tree node splitting method was applied to the Monte Carlo data (Section 3.2) from this study. Classification trees look at each of the parameters and try all possible ways of grouping input categories into two classes. The Monte Carlo simulation results that pertain to each of these groupings are assessed for level of purity obtained from each grouping. Purity is defined to be at a



Figure 3.4: Example of the methodology behind classification trees. The Monte Carlo data used by the classification trees are presented at the top of the figure ("MC" here stands for Monte Carlo), and the classification tree tests are presented at the bottom of the figure. Input colors represent categories of parameter values. Response colors represent (continuous) predictions, with the two distinct lighter colors being considerably close to each other and significantly far from the darker color. Subdivisions of response colors indicate that multiple predictions existed for the given input category, as demonstrated in the top half of the figure. The program will assess each parameter and each category grouping to determine which combination most successfully differentiates the outputs; in this case, it is the final test for Parameter 2.

maximum when a node has a minimum deviation in responses and at a minimum when deviation in responses is at a maximum [7]. The split that yields the greatest purity within each class will also maximize the deviance between the two classes and will be chosen as the split for the node being investigated. The process will be repeated for each node, ultimately providing results like those shown in Figure 3.3.

3.3.2 Random forests

Random forests repeat the classification tree procedure many times over, but with the following modifications. They randomly eliminate some of the original sets of data for some of the classification trees, and at the same time, they randomly restrict the number of available parameters to be used in determining the node splits. The results do not provide a single tree of decisions like Figure 3.3, but instead give a ranking of parameter importance that is less sensitive to the training sample data, and therefore more likely to be capable of predicting results outside of the sample, in the population.

3.4 Multiple Correspondence Analysis (MCA)

Multiple Correspondence Analysis (MCA) is a method used to compare multiple individuals and multiple variables. Abdi [2] provides a good explanation of the mechanism behind MCA. and additionally explains how the results of MCA can be interpreted on low dimensional plots (2-dimensional plots will be used in this research). Programs such as the FactoMineR [33] package in R [63] take a categorical input table and perform Correspondence Analysis (CA) on all of the dependent variabiles. In CA "the rows or columns of a data matrix are assumed to be points in a high-dimensional Euclidean space, and the method aims to redefine the dimensions of the space so that the principal dimensions capture the most variance possible, allowing for lower-dimensional descriptions of the data" [25]. Individuals or variables that cluster together when this lower dimension space is plotted indicate that a similar pattern has occurred in variables or individuals, respectively. For the purposes of the analysis of this research, modeler input decisions and demographic survey responses are the variables, and participants are the individuals. When participants vary consistently in how they answer demographic survey questions or how they choose to represent a feature in the model, they are grouped together on the plot. Likewise, if two variables see similar trends in modeler responses, they are grouped near each other on their plot. MCA plots are simply a visualization technique for the input data tables and should only be viewed as such in this analysis. The input data tables can be viewed to determine what the visualization means. More detailed interest in how MCA functions should be directed to [2]. MCA is used for this research due to the applicability of the method for analyzing categorical responses to variables. This categorical approach avoids issues that would otherwise arise with variables that cannot be simplified to a single value for use in a continuous scale.

3.5 Categorizing data for classification trees, random forests, and MCA

The validity of the classification tree and random forest analyses entirely depends on setting the categories in a way that only similar parameter decisions are grouped together; a miscategorization will cause the significance of a parameter to be obscured. Assigning a unique category to each participant's decision will similarly obscure information for the MCA, as all participants will be assumed to be varying in a pattern consistent with all other participants. It is not so risky for the classification trees, since they inherently group together similar decisions even if the decisions are coded as being unique. Encoding the data for the MCA and the classification trees was done in such a way that it was mutually compatible with each analytical method.

To encode the parameters used by the OAT analysis and the Monte Carlo simulations as laid out in Table 5.1, a table was made to record a category name for each decision made by each participant. These category names were merely letters taken from the alphabet, as the only requirement was that participants with similar inputs shared the same category name. The substitution files for each participant's decisions were compared for similarity along parameters, and distinct category names were assigned only if there were no effective means of grouping participants. Appendix F has the table as encoded for the classification trees and the key for the alphabetical categories; categories where participant decisions were too complex for any two participants to be grouped together were simply left out of the MCA. When parameter decisions were made on a room-by-room basis with indication that similarities may be present between individuals across the rooms, it is possible to perform an analysis of covariance on these decisions to determine if participant decisions were consistent enough to be grouped together. Demographic data was already in categorical form, with the exception of years of experience responses. These were converted into categories based on the year responses. The assembled datasets were read into the FactoMineR [33] package in R, which then yielded 2-dimensional plots for the comparison of individuals and variables.

Chapter 4

Preparing Modeler Variability Data for Analysis

The analysis of the study on modeler variability that is presented in the following chapter, Chapter 5, required an extensive amount of setup. This chapter describes the procedures used to prepare the study data collected (as described in Chapter 2) for use by the analytical methods described in Chapter 3. This chapter only deals with the large scale preparation tasks that would otherwise overwhelm the discussion of the analysis in Chapter 5.

The OAT analysis and the Monte Carlo analysis require a template file to be created into which model decisions (whether generated for the baseline model or by the participants during the study) can be input. The creation of the baseline model will be detailed in Section 4.2. The INP file for this baseline model was adapted into a template format consisting of a static framework and tags that can be replaced by the relevant data, as discussed in Section 4.3. The cataloging of the participant INP data used in the OAT and Monte Carlo analyses is explained first in Section 4.1, though, as it provides a frame of reference for the development of the baseline model and the template file. The cataloged INP data is also useful for encoding the data for use by the classification trees and MCA, and all of the efforts presented in this chapter will be relied on when further analyzing the data in Chapter 5.

4.1 Cataloging INP model entries

The goal of cataloging participant INP entries is two-fold. Firstly, the catalog of INP entries can be compared against modeler background to assess any trends linking modeler decisions to modeler background. Secondly, once cataloged, the model inputs can be substituted one factor at a time into a baseline model for the purposes of the OAT analysis or randomly sampled for inclusion in a Monte Carlo analysis. For all of these purposes it is necessary to determine consistent and generalized methods of cataloging the data so they can be compared and interchanged between files.

EQUEST INP data falls into the basic categories of envelope components, HVAC com-

ponents, and economic components, although the economic components were not considered during this study. The envelope components include general building data, floors, spaces, walls, ceilings, roofs, windows, and loads - these include people, lights, equipment and miscellaneous loads. Both airside and waterside HVAC components were included.

In order to provide a frame of reference for the discussion of how information was obtained from the INP files, the anatomy of an INP file is outlined below. The first level of the outline represents the major sections of the INP file, and the second level shows the sub-sections. The final level provides notes on the data fields that fit within the subsections. Sections that do not have a second or third outline level have a different format within the INP file - the data fields immediately follow the main section with no subsections. Note that this is not an exhaustive list of all potential INP entries - parts of the INP file not used by any participants in this study have been left out.

- 1. Untitled file header
 - a) Title, Run Periods, Design Days, Holidays
 - The file name is assigned here, and will be used in all related files that are created as a result of the simulation.
 - The run period is assigned; for this study, participants ran the simulation for the entire year of 2012 (the run period determines the day of the week relative to the day of the year for a general weather file).
 - The cooling design day and heating design day are assigned.
 - Observed holidays are defined. Days in this holiday list will have holiday-type schedules assigned to them instead of regular weekday schedules.
 - b) Site and Building Data
 - The altitude of the building is set.
 - c) Materials/Layers/Constructions
 - Material properties are assigned to keywords that will be referenced later in the file when spaces and their child components are defined. Some materials are of type "Layers," which are assigned a keyword instead of being directly assigned material properties. These layers properties were assigned to a keyword earlier in this section, and are composed of a list of materials that make up the layers. Some materials in the layers definitions are referenced from a library of materials but are not defined within the file.
 - d) Glass Types
 - Glass properties are defined by keyword so they can be referenced later by window and glass door components.
 - e) Day Schedules

- A day schedule is most commonly of type "Fraction", "Multiplier", "Temperature" or "On/Off/Flag". Values are assigned to each hour of the day that are appropriate for the schedule type. Different day schedules are created to be used to determine building electrical usage and HVAC loads by hour of the day. Within each category of day schedule end use, there are typically multiple day schedules for use on different days of the week and throughout the simulation year.
- f) Week Schedules
 - A week schedule references day schedules. The first five entries in week schedules are interpreted to be for week days, the 6th through 10th for Saturdays, Sundays, holidays, Heating Design Days and Cooling Design Days, in that order. One may define different week schedules for use during different times in the year.
- g) Annual Schedules
 - Annual schedules are composed of one to three seasons. A week schedule must be referenced for each season created within the annual schedule. The annual schedule keywords are referenced by their intended end uses.
- h) Polygons
 - First, a polygon of the outline of a building shell is defined by its vertexes.
 - Following the definition of the building shell's outline, the polygons of the spaces within this shell are defined by their vertexes. These space and shell polygons will be referenced by the shells and spaces in their definition later in the file.
- 2. Floors / Spaces / Walls / Windows / Doors

The information provided by the architectural plans and the lighting plans and schedules are incorporated in this section. An overview of the format of the data for this section is better interpreted by means of a diagram than a bulleted list. Figure 4.1 shows a different colored block for each type of data field included in this section. Child components have widths that are narrower than their parent components. Plenums are defined in this section but not mentioned in the diagram; they are a special type of space and are defined at that level (see Appendix A for explanation of a plenum).

3. Performance Curves

Definition of performance curves is not necessary when INP files are run from within eQUEST, but are necessary when run directly by DOE 2.2. They are commonly defined by their quadratic coefficients, and are later referenced by pieces of HVAC equipment.

- 4. Electric and Fuel Meters
 - a) Electric Meters



Figure 4.1: A diagram of how the building geometry and its properties are specified. The arrows to the right indicate that a building component is active (and therefore the parent of following components) until another component of the same type is defined.

- These are optionally defined; in the case of these simulations they are only used in order to keep track of the power usage of exterior lights.
- b) Master Meters
 - These are in place to track the electricity used by the building.
- 5. HVAC Circulation Loops / Plant Equipment
 - a) Circulation Loops
 - Properties and a schedule are assigned to a circulation loop, which will be referenced by the domestic water heater below.
 - b) Domestic Water Heaters
 - A domestic hot water heater is defined. It will reference a schedule that determines how much water is used at each hour of the day.
- 6. HVAC Systems / Zones

These are assigned similarly to the method for Floors / Spaces / Walls / Windows / Doors diagrammed above. An HVAC system is first defined and its properties assigned, and, depending on the type of HVAC system, a specific zone may be referenced as a control zone (i.e. a room where a thermostat is located). Following the HVAC system definition, zones are defined. Each space has a corresponding zone, and all child zones of an HVAC system are considered a single thermal zone. Conditioned zones will have heating and cooling design temperatures, as well as heating and cooling schedules. Every zone must be assigned to an HVAC system.

Preliminary to the steps described in the following sub-sections, a program was written to comb the INP file and record the name, type of component, parameters, and parameter values for each field (anatomy of a field is included in Figure 4.2). Additionally, for ease of reference, the respective participant numbers were included in the first column of this file.

4.1.1 Spaces

Spaces are referenced by nearly all elements of the model and these elements are otherwise independent, so creating a consistent way of comparing spaces was the primary hurdle of the analysis. Participants varied greatly in how they divided the floor plan into spaces, which presented the challenge of determining a consistent point of reference between all files. Fortunately, as can be seen in the overlaid floor plans in Figure 4.3, the majority of participants combined existing rooms or their recognizably close approximations. The greatest deviations from this approach were seen in file 913, which contained multiple spaces per room area, and file 437, which contained drastic simplifications of building geometry and generic core and exterior spaces instead of rooms. Apparent mistakes were seen in two



Figure 4.2: Anatomy of a field. This particular example is of a floor type component.

files. File 718 contains a space offset from its actual location, and file 845 has a room on the opposite side of the building from its original location.

To handle the comparison of spaces, a table was created with a row for every room designated in the floor plans. Each participant's file had a different naming convention for spaces, and the table was filled out with the participant space names that corresponded to the floor plan rooms (Appendix E.1 has this table). Spaces for file 913 were all included in the same row of the single room they each belonged to, and spaces for file 437 were labeled according to the spaces that they primarily overlapped. When a room from the building plans was fairly evenly split between two of the spaces in 437, both space names were put in the cell for that room. The misplaced rooms in files 718 and 845 were recorded as the rooms they were intended to be. Participant-assigned spaces that encompassed multiple rooms were then highlighted in the same color, and colors were coordinated across participant columns when the room groupings were consistent.

The following sub-sections describe the procedures involved in cataloging the contents of the INP files and are grouped according to basic methodological categories. Certain methods of categorizing the data are only easily understood within the context of the creation of the template, so these methods will be briefly described before being deferred to Section 4.3.



Figure 4.3: Plots of participant building spaces (rooms) overlaid on precisely modeled building plans. The red represents the participant models and the black the rooms as marked on the building plans. Each plot is labeled by the participant number.



Figure 4.4: Flowchart of program query for converting participant space data to templateready room-by-room space data. Participant number was held constant for a given query of each parameter and room number combination.

4.1.2 Space data

In order to convert the participant space data to room-by-room space data, a program was written that referenced the table of spaces described above as a key between the participant INP data file and the individual rooms from the building plans. Separate tables were output for each parameter of the space data field (see Figure 4.2 on the anatomy of the data fields for a reference point for the terminology used). These tables are included in Appendix E.2. Figure 4.4 demonstrates how the program acquired the data.

An overview of the parameter data assigned to spaces is included in Table 4.1. The table is not an exhaustive list of all parameter data assigned to spaces in the models, but rather is limited to the data modified by the participants. Also note that it is limited to the data assigned in the space definition field and therefore excludes the child components of spaces. Most of the space parameter data were already adapted to the division of larger, groupedroom spaces into independent room spaces, as indicated in the asterisked column in Table 4.1. Only two fields could not be generalized for any room covered by the participant-defined space - "Lighting kW" and "Number of People". Incidentally, only two participants used the former field exclusively (the rest relied on "Lighting Watts/Area") and only one participant used only the latter (the rest used "Area/Person" instead). One participant used "Lighting kW" for two spaces only, and "Lighting Watts/Area" for the rest. Three participants used "Number of People" for single rooms.

For all uses of "Lighting kW" (both by the two participants who used it exclusively and the one who used it for just two spaces), space areas were looked up in the respective SIM files and used along with the "Lighting kW" values to determine "Lighting Watts/Area". Thus the "Lighting kW" parameter was excluded from the analysis, with the equivalent and generalizable "Lighting Watts/Area" used instead. This decision was made because eQUEST adds "Lighting kW" to "Lighting Watts/Area" when calculating lighting energy use, so during the Monte Carlo analysis there would have been many cases where lighting was nearly double what it should have been (that is, if "Lighting Watts/Area" values were sampled from one participant and "Lighting kW" from another). Additionally, the choice led to generalizability when converting from participant spaces to independent room spaces.

"Number of People" proved to be much simpler to handle, however, owing to the fact that values for this parameter supersede values input for "Area/Person". Values for "Number of People" were recorded for whichever spaces within the participant models used this parameter, and were later referenced during the analysis. Only one space (from participant 731's model) spanned two individual rooms; this case was handled by dividing the total number of people between the two individual rooms.

Infiltration schedules and the parameter "Infiltration Flow/Area" were predominantly generalizable. Exceptions however, were as follows. The model from participant 913 (the one with multiple spaces per room-space) had different schedules for core and exterior spaces and slightly different values for "Infiltration Flow/Area" as well. To maintain the spirit of this participant's decision-making process, all exterior rooms were given the exterior values and core rooms given core values. Participant 437 had the same infiltration schedules throughout, but the "Infiltration Flow/Area" values were different for core and perimeter spaces. Values for this parameter were averaged whenever the room was evenly split between the core and perimeter values.

Table 4.1: Explanation of space parameters modified by all participants. See the DOE 2.2 Dictionary [47] for the source of these explanations. The asterisk column denotes whether the field could stay the same for all models when entered into the baseline model (Y), whether it had multiple cases between files and sometimes had to be changed before being put into baseline model (M), whether it required modification (N), or whether it was not relevant to the analysis (NR).

Parameter	*	Explanation	
Zone Type	Y	This can hold the values of "CONDITIONED", "UNCONDITIONED", or "PLENUM". Conditioned spaces are treated as being heated and cooled, unconditioned spaces are not, and plenum spaces are modeled as having the return air from the HVAC system passing through them.	
People Schedule	Y	Holds the name of a schedule that hourly sets the fraction of the maximum number of people for the space (as set by either "Number of People" or "People/Area" described below).	
Lighting Schedule	Y	Holds the name of a schedule that hourly sets the fraction of the maximum wattage of lights assigned to the space (as set by the sum of the "Lighting kW" and the "Lighting Watts/Area" as explained below).	
Equipment Schedule	Y	Holds the name of a schedule (or multiple schedules) that hourly sets the fraction of the maximum wattage of equipment and miscellaneous loads (as assigned by the "Equipment Watts/Area" as mentioned below).	
Infiltration Schedule	М	Holds the name of a schedule that provides an hourly multiplier for the base infiltration value set by "Infiltration Flow/Area" below.	
Infiltration Method	Y	Can hold a variety of keywords that determine the method of calculating the infiltration for a space. However, all participants used the default "AIR-CHANGE", which directly links the values assigned by "Infiltration Flow/Area" below with the multipliers set by the "Infiltration Schedule" mentioned above (with no modifications based on wind speed, for "Infiltration Flow/Area" as used by all participants).	
Infiltration Flow/Area	Y	Sets a value for the air flow rate flowing into the room per unit area.	
Lighting kW	N	Sets the total value of kW used by installed lights in the room. If "Lighting Watts/Area" is also set, the values add together for calculations of lighting wattage.	

Parameter	*	Explanation	
Lighting Watts/Area	Y	Sets a value of the watts used per unit area in the space. If "Lighting kW" is also set, the values add to each other for calculations of lighting wattage.	
Equipment Watts/Area	Y	Allows for values of the wattage of equipment and miscellaneous loads to be set per unit area of space. It may take multiple values to be multiplied by the various equipment schedules allowed for the final calculation of equipment watts used by the space.	
Number of People	N	Sets a total number of people expected in a given space.	
Area/Person	Y	Sets the area (in square feet) taken up by a person in the space.	
People Latent Heat Gain	Y	Sets the amount of latent heat gain caused by each person in the given space.	
People Sensible Heat Gain	Y	Sets the amount of sensible heat gain caused by each person in the given space.	
Activity Area Description	NR	The activity area description is not used directly in calculations but is used by eQUEST to calculate default values for the space based on the type of activity, such as the latent and sensible heat gains caused by the people, and the area per person.	

Table 4.1 – continued from previous page

4.1.3 Child components of spaces

Child components are listed below their parent components, as demonstrated in Figure 4.1. The program written to comb INP data included the data from these child and grandchild components, but did not track the heredity of the components. However, the data associated with these components was primarily uniform within the files. Exceptions to the typical properties of child components could easily be discovered through browsing the spreadsheet output by the program that combed the INP file. The heredity of the exceptions to the child components could then be noted manually. Wall, floor, ceiling, roof, and window materials were able to be generalized by this approach, but the locations of windows and doors data needed to be acquired piecemeal.

Window and door placement had to be determined one by one because of the inaccessibility of heredity information mentioned above, but also because of the additional complexities of how eQUEST stores window location data and how participants chose to interpret window locations. EQUEST describes the x- and y-coordinates of a window's bottom left corner from the origin of the parent wall. The origin of the parent wall is located in the lower left corner of the wall when viewed from the outside of the building. These coordinate values are only found by tracing the vertex name that was assigned to the origin of the wall back to the polygon assigned to the parent space, which in turn needs to be traced back to the definition of the polygon earlier in the program. Additionally, it would have been necessary to find the vertex listed immediately after the one labeled as the surface origin in order to determine the orientation of the wall coordinate system from the origin point.

Beyond the programmatic complexity of automatically determining window location were the variations in space placement. Some participants grouped two rooms together into a single space and located the windows accurately along this combined surface, making it necessary to subtract off the width of the first single-room wall in order to appropriately locate the window in the second single-room space's wall (see top of Figure 4.5). Other participants had windows or doors that spanned a width wider than the single-room space's width. For this case it was necessary to resize (and sometimes relocate or duplicate) windows and doors so that they fit within the single-room spaces (see center of Figure 4.5). Yet other participants realized that the location of a door or window with a combined-room space did not matter greatly to the space and consequently represented the appropriate shapes of windows within the spaces but not in the appropriate locations. In order to be faithful to their modeling decisions, it was necessary to ensure that these windows would be located within the correct rooms rather than at the exact coordinates described in the model (see bottom of Figure 4.5). It was decided that the best approach was to manually determine the location of windows and doors for each wall. This manual inclusion of window properties will be further detailed in Section 4.3 after the creation of the template INP file has been explained.

4.1.4 Schedules and property data

Schedules and property data are defined early in a file and then referenced by components. Schedule definitions and material properties merely had to be given unique names for direct inclusion in the template INP file, as discussed in Section 4.3.

4.1.5 HVAC components and their thermal zones

Participants had differing numbers and types of HVAC systems, which meant that there was no way to create a general comparison of HVAC system properties. Due to these inconsistencies in HVAC systems between files, a table of HVAC properties was created manually. Owing to the inability to generalize the HVAC systems, the entire HVAC setup was used for the OAT analysis and the Monte Carlo analysis. Consequently, the HVAC system definitions fields in the INP file were directly recorded for substitution into the template. The only features of participant HVAC systems that had to be changed were the names of the child zones and the name of the space each zone corresponded to. The baseline



Figure 4.5: Demonstration of various scenarios for window locations

model zones that pertained to each participant's model zones were determined manually and the name of these replaced the name the participant had included. Child zones of each HVAC system were manually determined for each file. A further discussion of the treatment of the HVAC systems will be provided in Section 4.3 below.

4.1.6 Miscellaneous observations about files

In addition to the basic data assembled for spaces, their parameter data, and their child components, participant models also varied by the height of the spaces, the features of the plenum, and the existence (or lack thereof) of the vaulted lobby featured by the building. Each file was examined in turn for values of space and plenum heights (and whether or not the file had a plenum) and whether or not they included the vaulted lobby area. The space height definition occurs in the definition of floor properties (see Figures 4.1 and 4.2 for a reminder as to what this entails), so the values could be recorded for replacement in a manner similar to that employed for the space data. Plenums are defined like spaces as well, but are linked to the spaces below them by shared child components (the ceiling assigned to the space is the same as the bottom of the plenum). It was thus necessary to ensure that participant plenum properties were uniform across models in order to simplify the data cataloging process (as paralleled by the discussion on child component data). They were indeed consistently defined other than their dimensions; however, participants 019 and 845 did not include plenums in their models. After noting the existence of the plenums and the z-coordinates and their height, there was no additional cataloging necessary.

4.2 Creating the baseline models

Two slightly different baseline models were made - the first serves as a version of the model with high fidelity to the building plans and schedules; the second was minimally modified so that the geometry was compatible with the inputs of all of the participant files, thus making its INP file capable of being adapted into a template file. The two models were identical other than the geometric features so that the effect of the modification for use in the template files could be isolated. This section describes how the building plans were interpreted for the baseline case as well as how and why it was modified to create the template-friendly version. The following section, Section 4.3, explains the process of constructing the template and substitution files.

An expert modeler was consulted for a thorough review of the building plans and schedules (as provided to the participants), typical values for data left out of the plans, and the methods of inputting all the data into the model [42]. The goal of the high fidelity model was to create the version of the building model that relied on all possible knowledge available to the participants at the time of the study while still being compatible with conversion to template form. Note that this cannot be assumed to be the most accurate version of the model, as there is no data on the actual performance (or features or use cases) of the building. Additionally, the goal of this study is not to assess how accurately a building is modeled compared to actual data but rather to assess how modelers perform relative to the best practices for the plans provided. The model features will be described below, and Table 5.1 contains a summary of the model inputs (it is included in Section 5.2 where it is required for understanding the results of the OAT analysis).

4.2.1 Wizard entry mode

The Design Development Wizard mode of eQUEST entry was chosen over the Schematic Design Wizard mode. The Schematic Design mode is intended for early phase design, while the Detailed Development mode is for situations where more detailed information about the building is present. The choice was made to facilitate the entry of detailed information while still in the wizard mode of entry; the decision of which wizard entry mode to use was relevant because the defaults for certain schedules and other model features are set by the entry mode.

4.2.2 Building geometry

The geometry present in the architectural floor plans (Figure 2.1) was duplicated in the building model by importing the CAD file and tracing over the plans using eQUEST's customized footprint and spaces options in the wizard entry. Modeled walls were set to be at the centerline of the walls on the plans, as this is where eQUEST assumes modeled walls to be. Window and door locations and geometries as well as other elevation view features were taken off the elevation plans (see Appendix C.2 for full plans). Unlike the floor plans, however, the elevation views do not have many of the critical dimensions labeled. Dimensions in these cases were determined by measuring a known dimension with an architectural ruler and measuring the rest of the dimensions using the same scale.

The only differences between the high fidelity model and the template version of the model were regarding the vaulted lobby. The high fidelity model represented the vaulted lobby, including its tilted roof with an overhang, and the clerestory windows. The template model had no vaulted lobby - the lobby spaces were level with the rest of the building.

4.2.3 Material properties

Properties for the roof and walls of the building were determined from Title 24 Table 143-A, PRESCRIPTIVE ENVELOPE CRITERIA FOR NONRESIDENTIAL BUILDINGS [1], from the column for climate zone 4. R-values of the insulation were then chosen to correspond with the prescribed envelope criteria. Surface properties (e.g. roughness and type of surface) were based on the modeling consultant's experience.

4.2.4 Window and door properties

Window and door properties were also determined from Table 143-8 from Title 24 for climate zone 4 [1]. Exact U-values for window constructions were entered, but had to be determined for each surface by calculating the percentage of each wall that was covered by windows. Overhangs for the doors and windows were determined based on the floor and elevation plans (Appendix C.2).

4.2.5 Activity type

The activity area allocation was set to be 100% office type. Activity area assignments in eQUEST set defaults for values such as the latent and sensible heating gains from people, density of people, and ventilation rates. Specific area types were not assigned to each room because most of the default values were changed to intentional values, and consistency in the areas that were not changed are preferable for comparing deviations in modeler inputs.

4.2.6 Occupancy levels

Occupancy for each room was set by the number of people one might expect in a given type of room as labeled on the plans. Occupancy numbers are therefore to be judged in terms of their reasonableness and not to be taken as faithful to the plans nor as improvements over the participant estimations.

4.2.7 Lighting levels and schedules

Lighting levels were read off from lighting plans, and were input according to the wattage as labeled. Emergency lighting as labeled on the plans were calculated as the percentage of total lighting levels, and the minimum lighting levels on the schedules were set to the corresponding percentage. Exterior lighting was calculated from the lighting plans as well. EQUEST requires exterior lights to be input as watts per floor area value, so the total floor area was read out of the SIM file and the calculated percentage was put in.

4.2.8 Equipment loads and schedules

The 2013 ASHRAE Fundamentals Handbook [4] was consulted for equipment load levels and a value of 0.5 watts per square foot was chosen for medium density for at least 50% laptop. Experience gained during the study of a classroom and office building at UC Merced [18] indicated that significant portions of plug loads were present at night; this was corroborated by the modeling consultant, so minimum schedule values were set to 25% of maximum loads.

4.2.9 Annual schedules

As this was a school building, the schedules were changed to have reduced use during summer months. However, this reduced summer usage model was only used as an example of modeling decisions but not implemented in the OAT analysis due to the fact that most participants did not recognize the building as a school building (the part of the plans that labeled the building as a school building had to be removed per the request of the architecture firm that released the plans for use). Schedules throughout the year were all changed from defaulting to having no occupancy or loads during weekends to having minor ones, as experience with school buildings indicates that teachers and administrators occasionally are present on weekends.

4.2.10 Domestic Hot Water equipment

The expert modeler assessed that the size of the building, minimal hot water needs, and lack of significant space and ventilation for the water heater in the designated location in the plans meant that the water heater was likely to be a small electric one.

4.2.11 HVAC systems

HVAC systems were set according to the mechanical plans and schedules. They included the four packaged single zone (PSZ) main systems and their appropriate zoning, as well as the location of the thermostats in the rooms marked in the plans. The cooling occupied setpoint was changed from 76°F to 74°F based on experience with typical setpoints in buildings. All specifications required by eQUEST were matched to the information in the mechanical schedule. One notable change from default settings was the removal of crank case heating, as this would be a constant draw on electricity that is not actually present. In addition to the four main HVAC systems, there were two split system air conditioning units that were represented as such by systems that had no heat and pulled in no outside air. The ventilation to the bathrooms and custodian room were represented by increasing the exhaust air values for those rooms to the levels from the mechanical schedule.

4.3 The template file, the substitution file format, and the substitution program

4.3.1 The template file

The INP file from the template-ready version of the baseline model was copied and modified to accommodate the substitution of any participant's data. The template file was modified by two primary methods: replacing existing model inputs with tags for replacement, and adding definitions to the file that were necessary as references for the participants' inputs.

Tags replaced:

- Site data definition
- Exterior and interior wall property definitions
- Exterior lighting field
- Domestic Hot Water settings
- Space and floor height definitions
- Each space's parameter definitions

Tags were also placed after every wall-type field in order to accommodate a door or window being a child of that wall (recall Figure 4.1). If a door or window already existed (from the baseline model) as a child of a wall, they were replaced by the tag. Additionally, all plenum spaces were replaced by a single tag in order to allow for the removal of the plenum spaces for models that included no plenum. In order to accommodate the removal of plenum zones, all ceiling fields had to be replaced by a tag as well; in the event of the removal of the plenum, the ceiling fields had to change to roof fields, because they now became exterior walls. The HVAC definitions were similarly replaced by a single tag for replacement of a participant's HVAC components en masse.

Participant schedules were added to the schedules sections of the INP file and given unique names that could be referenced by the schedule inputs of the participant files. This was the most feasible method of implementing schedules, as schedules are defined at the day, week, and year level, and all of these replacements would have been required whenever a substituted schedule changed. Some participants relied on performance curves for equipment in the model; these would not normally have to be defined in the INP file for a file run within eQUEST. The batch files were being run directly through DOE 2.2, though, so it was necessary to add in performance curves as used by participants. DOE 2.2 also requires specific names for materials that are called on by the library, so material names were replaced with ones that could be found in this library.

The entire template file is included in Appendix H.1.

4.3.2 The substitution files

Substitution files were created for each participant and for the baseline model. The substation files were made up of the fields that had been removed by the tags; each line for a given field was preceded by the tag name followed immediately by a delimiter. In cases where participants had no data for a field, it was left blank. For example, the tags put in place for windows were left blank when participants had no windows present on that particular wall, and files that contained no plenum zones had a blank entry for this tag. As alluded to above, when plenum zones were removed from the file, ceiling fields were replaced by roof fields; when the plenum zones were left intact, ceiling zones were returned in the place of the tags. The HVAC tag required special treatment within the substitution files. In order to make the HVAC systems from participant models compatible with the geometry definition of the template file, spaces assigned to participant HVAC zones had to be replaced by the equivalent room or rooms from the template model.

The substitution files for the baseline model are included in Appendix H.2, Appendix H.3 and Appendix H.4. Participant substitution files are in Appendix I.

4.3.3 The substitution program

The substitution program was designed to generate a new INP file using the template file and the data called on by the tagging system. The program was given a list of all the tag names to index through, and for each tag the program would be told which substitution file should be consulted. The indicated substitution file would be stepped through and any line found containing the relevant tag would be stripped of the tag at the delimiter and the data from the rest of the line would be stored for replacement. After combing of the substitution file was complete, the program stripped the template file of the tag and replaced it with the stored data. The plenum and HVAC substitution files were separate from each other and the rest of the tag data and did not have tags. If a plenum or HVAC tag was reached when indexing through the tag list, the program was directed to read all of the lines from the respective file into memory and write it in the place of the tag.

Chapter 5 Analytical Results

This chapter presents the analytical results of the study on modeler variability. The modeler variability study from Chapter 2 was the sole source of data for this analysis. Analytical methods used in this chapter were chosen to accommodate the fact that the sample size was small relative to the number of parameters investigated (see Chapter 3). Preparation of the study data for use in this analysis followed the procedures detailed in Chapter 4. The sections below step through the analysis in the order they were applied. The plots of annual energy use for each participant are revisited in light of the baseline model energy use in Section 5.1. Section 5.2 covers the one-at-a-time factor analysis (OAT) that was used to explore the impact of modeler decisions in the absence of interaction effects. The overall impact of interactions between modeler decisions were then investigated by the Monte Carlo analysis (Section 5.3). Classification trees were implemented to explore the complexities of the Monte Carlo results and to get a sense of which modeler decisions were important when combined with all other modeler decisions (Section 5.4). Random forests were applied to the Monte Carlo data to assess the accuracy of the classification tree results and to provide additional information on the importance rankings of modeler decisions (Section 5.5). The analyses up to this point all indicated the significance of HVAC decisions in predicting energy results, so these decisions were explored further in Section 5.6. Finally, Multiple Correspondence Analyses (MCA) were conducted to assist in the visualization of study demographic data and to interpret how demographic data relates to various decisions.

5.1 Participant results plotted with baseline model results

To frame the discussions in the following sections, the results from the study (originally introduced in Figure 2.3) are replicated in Figure 5.1, including the results from both baseline models discussed in Section 4.2.

The baseline models were very similar to each other, despite the inclusion of the vaulted lobby. They clustered with models that predicted the lowest amounts of energy use. The



Figure 5.1: Monthly total energy use of participant simulations with baseline simulations included.

OAT analyses of the following section will particularly rely on comparisons to these figures.

5.2 One-at-a-time factor analysis results

The OAT factor analysis was carried out through the substitution and template file machinery described in Section 4.3. Table 5.1 contains the parameter values for the baseline model. Participant decisions replaced each of these baseline decisions one at a time, as described in Section 3.1. Participant values for all parameters can be found in Appendix I, in the respective substitution files. The measurement for the final column in each plot ("Original Geometry") was achieved by substituting all of a participant's parameter values into the baseline model's geometry, which isolated the effect that the modeler's original geometry choices had on the energy predictions. For example, if a participant had a vaulted lobby but otherwise had geometry that was identical to the plan drawings, the difference between the two predictions would demonstrate the effect of the vaulted lobby on the participant's other modeling decisions. It is important to note that the original geometry category excludes the effect of space heights and plenums (these were part of the parameters subbed into the baseline template), leaving only the effects of floor plan changes, room groupings, and vaulted lobbies. To avoid confusion in the current section, the former will be referred to as "space heights and plenums", and the latter "original geometry". However, in the remainder of the dissertation, space heights and plenums will be discussed as the geometry component of participant decisions (as these are the only geometry components modified along with other participant decisions).

Table 5.1: Summary of baseline model parameter values. Effort was made to use values that are as realistic as possible, but these values are in no way definitively accurate. The table is provided here so the reader can interpret the meaning of "baseline" as used in Figure 5.2 and Figure 5.3.

Decision Category	"Baseline" decisions	Notes
Site Data	Default values for San Jose	Location of building
Exterior Wall Properties	Layers construction- stucco exterior, R-19 batt, no exterior insulation	Fits Title 24 requirements
Interior Wall Properties	Program defaults	No information on construction provided
Exterior Lighting	Power calculated from lighting plans, default schedule	

Decision Category	"Baseline" decisions	Notes
Domestic Hot Water Heater	Electric, 1 gal/person/day	Electric chosen because of location in plans. 1 gal/person/day is default, and high for this type of building.
DHW Loop	Process flow 0.03 gpm, default schedule	Value auto-calculated
Zone type	All conditioned except the Riser, which was unconditioned.	
Occupancy Schedule	Defaults, except occupants present on weekends	Assessed by familiarity with school type buildings
Lighting Schedule	Default, but with accurate emergency lighting percentages for off-hours	Emergency lighting percentages had to be calculated from plans
Equipment Schedule	Default, but with 25% of maximum usage during off-hours instead of 9%	Higher off-hours usage based on experience with actual plug loads
Infiltration Schedule	Default schedule	
Infiltration Method	Air change	
Infiltra- tion/Area	Default, varies by exterior room, 0.001 cfm/sqft for all interior rooms	
Latent Heat Gain from People	200 Btu/hr/person	ASHRAE Fundamentals recommendation for offices
Sensible Heat Gain from People	250 Btu/hr/person	ASHRAE Fundamentals recommendation for offices
Lighting Watts/Area (or kW/space)	Determined from plans	

Table 5.1 - continued from previous page

Decision Category	"Baseline" decisions	Notes
Equipment Watts/Area	$0.5 \mathrm{W/sqft}$	From ASHRAE Fundamentals, recommended for office type buildings
Area/Person (or Number of People)	Number of people set by estimates for room type, eg. 1.5 people for Principal and 6 for conference room	See Appendix H.2 for all values
Space Height and Plenum	Height of rooms $= 9$ ft, height of plenum $= 3$ ft	These heights were default, but confirmed with plans by measuring (heights not labeled)
Windows	Accurate to plans, properties set to Title 24 values, overhangs only where indicated in plans	Window locations and dimensions were not labeled in plans, so they had to be measured
HVAC	HVAC system specifications taken from plans. Cooling setpoint lowered from 76°F to 74°F. No crankcase heating. No fan night cycling. Dual temp economizers. Exhaust fans with cfm as labeled in plans. Split systems modeled as electrical ones with no heat or outdoor air.	Lowering of cooling setpoint based on experience with typical setpoints. All other HVAC settings were faithful to plans.
Geometry	Geometry was traced off of the center line of walls in the floor plans and measured off of elevation views.	

Table 5.1 – continued from previous page

The plots resulting from the OAT analysis are shown in Figure 5.2 and Figure 5.3 for electricity and gas predictions, respectively. Baseline model energy values are the reference line (that is, zero on the y-axis). Bars above this line indicate that participant decisions, on average, raised the energy use beyond the baseline settings by the height of the bar. Contrariwise, bars below the line indicate that participant decisions, on average, caused lower energy predictions than the baseline values. The standard error of measurement lines on the plots indicate the region in which the mean of the population of modelers is likely to



Figure 5.2: Plot of one-at-a-time factor analysis for electricity use. Bars represent averages of the differences in total annual electricity use from the baseline total annual electricity use.

fall, based on the measurements of the sample and its size. The results in these plots are an indication of the sensitivity of this particular model to the decisions of modelers in this study. They are not a general sensitivity analysis of the building, and should not be interpreted as such. Additionally, these values were obtained under a specific set of experimental conditions on the modelers, and should not be taken as appropriate estimates of modeler variability for other conditions (without further study).

For electricity usage, noticeable deviations from baseline occurred in the following categories: interior wall properties, exterior lights, the water heater, the DHW loop, the light and equipment schedules, the lighting and equipment power, the HVAC, and the geometry, with a subtle difference in windows. Gas usage had only very minor differences for most categories, and most of these differences are easily explained as the opposite effect of properties that increased or decreased cooling demand. The minimal magnitudes of heating energy changes are reasonable for the mild climate that the model was subject to. Only window and HVAC decisions did not fit with the trend of having opposed cooling energy differences; therefore, these two decisions will be discussed as special cases.

A majority of the noticeable differences in energy use have easily explained sources. (The discussion of the interaction between these sources and the resulting change in energy use is postponed until the discussions in Section 5.4 and Section 5.5). Most participants chose U-values for interior walls that far exceeded the U-value used in the baseline model (the mode for the U-value for participants was 2.7; for the baseline model the U-value was 0.4). This increase in internal wall thermal conductivity led to a decrease in cooling energy



Figure 5.3: Plot of one-at-a-time factor analysis for gas use. Bars represent averages of the differences in total annual gas use from the baseline total annual gas use.

and an increase in heating energy. The baseline model included exterior lights, but most participant models did not, leading to a decrease in electricity predictions with participant values. All participants chose gas water heaters rather than the electric one used in the baseline model, causing a decrease in their electricity predictions and an increase in gas predictions. Additionally, the absence of a standard error of measurement indicates that all participants chose the same option (in this case, the default water heater). DHW loop increases seen in participant decisions were caused by higher flow rates. Only one participant set lighting and equipment schedules to have on-hours during the weekends (like the baseline model). Changes in lighting and equipment power directly follow from participant values for these categories. It should be noted that participant decisions for lighting power varied significantly but were still centered around the baseline model values, and by extension, Title 24 requirements. Equipment power for all participants and for the baseline model fell within ASHRAE recommended values (this is significant and will be discussed further in future chapters). Many participants chose to represent the vaulted lobby in their models, unlike the single story baseline model used for the template file. Additionally, some participants did not follow the floor plan of the building precisely and rooms were grouped into spaces in various patterns.

Window and HVAC decisions were the only areas where participant values changed both gas and electricity use, and in these cases heating and cooling energy, in the same direction. Participant values for windows decreased both the cooling and heating energy used, albeit slightly. The primary difference in modeler and baseline decisions in this case were the
amount of the exterior wall taken up by windows. Half of the participants had significantly fewer windows than the baseline case, and a quarter of them had the same amount. Participant settings for the HVAC systems dramatically increased the gas and electricity use. The causes of differences in HVAC energy use are too diverse to simplify for discussion here. They will instead require additional analysis, as described in Section 5.6.

It is important to note that participant HVAC settings related to the original geometry of the building were modified to accommodate the baseline geometry. For the purposes of this analysis, HVAC settings as modified to incorporate baseline geometry were the reference point of comparison in order to ensure consistency (original geometry decisions would otherwise be confounded with HVAC effects). The effects of participant geometry decisions on HVAC can be seen in the original geometry category. Original geometry effects were obtained by comparing the predictions from a complete substitution of participant decisions into the template file (and therefore the baseline geometry) with the participant's original file. However, there is no common reference point between the comparisons for HVAC and for original geometry, so geometry effects cannot simply be subtracted from HVAC effects. The original geometry category does, however, provide a measure of the magnitude of participant geometry decisions (other than space height and plenum decisions) on HVAC energy use, although in both the gas and electricity cases the HVAC category as a whole dwarfs the original geometry effect.

5.3 Monte Carlo simulation results

The methodology behind the Monte Carlo simulation was explained in Section 3.2 and relied on the substitution program described in Section 4.3. The substitution program generated INP files using Monte Carlo sampling from the 12 participant substitution files. The sampling was performed by calling on a random number generator to choose one of the participant's decisions for each decision-making category; each participant was equally likely to be selected by the random number generator. Since the sampling was done directly from the decisions of the modelers, the distribution in the categories of modeler decisions is the same as the distribution of the sample. A record was kept of all Monte Carlo sampling for use in the remaining analyses in this chapter and is provided in Appendix G. Chapter 4 describes how each category of modeler decision was converted into a form that was capable of being accessed by the substitution program for insertion into the template file. This chapter also discusses the necessity of using the entire HVAC setup for a given participant in the substitution scheme. Any INP files that sampled geometry decisions from the two participants who had not included plenums had to be modified manually to eliminate references to these non-existent plenums. Following the cleanup of the files, DOE 2.2 (the simulation engine behind eQUEST) was called from the command line to run all of the INP files. Results were output to SIM files that were labeled according to the simulation run (no CSV files are created by DOE 2.2 outputs). SIM files have an irregular format and are text documents, so a program was written to read the annual energy use values from the relevant report within



Figure 5.4: Plot of Monte Carlo simulation results for total annual electricity use.

the SIM file.

Initially, 100 Monte Carlo simulations were conducted and a histogram created from this data, but it was not clear whether the results of the simulations had converged (that is, sampled sufficiently from participant decisions to be representative of population effects). An additional 100 runs were completed to test the convergence of the results. Each of the subsets of 100 runs had histogram profiles similar to the full set of 200, so it was determined that the runs had converged and no further runs were completed. Histograms of the full set of Monte Carlo results for electricity are shown in Figure 5.4, and results for gas use are shown in Figure 5.5.

For both electricity and gas, the mean of the participant study data and the mean of the Monte Carlo simulations were significantly higher than the baseline model predictions, as would be expected from the plots in Section 5.1. For electricity use, the standard deviations of participant study data and Monte Carlo simulation results are very similar (the participant standard deviation was 5% lower than the Monte Carlo standard deviation). This indicates that, for electricity prediction purposes, random combinations of the decisions of the modeler sample performed similarly to any given modeler's inputs from the study. This small difference in standard deviations points to the fact that outlying modeler decisions that affected electricity use did not have strong interaction effects with other participant decisions. Standard deviations in gas predictions from participants were 21 % lower than the Monte Carlo predictions, however. Outliers in decisions that affected gas usage therefore had strong interaction effects with other modeler decisions that only showed up when combined with the decisions of other modelers. The shape of the histogram for gas use ad-



Figure 5.5: Plot of Monte Carlo simulation results for total annual gas use.

ditionally points to interaction effects. Multiple peaks can be seen where decisions show up from different participants. The largest bar on this histogram, at the far left, contains only HVAC decisions made by participants 019, 379, 437, 730, 845, and 834. This is unsurprising, as these participants can be seen to have the lowest gas usage in Figure 5.1. The next largest peak, the bin that includes 200 MBtu, contains only the decisions of participants 634, 731, 718, and 913.; the bin that includes 300 MBtu contains only HVAC decisions made by participants 625, 731, and 913; the peak that includes 500 MBtu has only HVAC decisions made by participant 027. With the exception of participant 027, the ranking of the impact of participant HVAC decisions roughly matches their orderings in Figure 5.1.

Participant 027 made decisions that resulted in considerably less gas energy within the study data, owing to this participant's decisions in other aspects of the model. When this participant's set of decisions were substituted into the baseline model as a whole, the energy use predictions differed only by 0.7%. In the OAT run for lighting power for participant 027, the predicted electricity use was the highest outlying value out of all participant predictions, and the gas use for this run was below all other participant predictions. The combination of these facts reveals that participant 027 had HVAC settings that were highly inefficient, but the effect of the inefficiency was masked by the waste heat of participant 027's lights removing some of the heating burden from the HVAC system. (The change in electricity use from including participant 027's lighting power was still roughly half that of many participant decisions for equipment levels, so 027 did not cause outlying effects within the electricity Monte Carlo results).

The generalization of interaction effects between modeler decisions is discussed in the

following sections.

5.4 Classification tree results

As mentioned in Section 3.3, the rpart package in R was used to carry out the classification tree scheme on the Monte Carlo simulation results. Section 3.5 described the method by which data were categorized for use in this analysis, and Appendix F contains the tables of categorized participant inputs as well as brief descriptions of these categories. The results of the classification tree for electricity are provided graphically in Figure 5.6, with additional data given in Table 5.2. Results for gas usage are presented in Figure 5.7, with supplemental information in Table 5.3.

For the electricity results, participant decisions about how to represent the HVAC systems had the greatest impact on energy results, regardless of all other changes in variables that occurred. That is, the model saw the lowest deviation within in each branch of the tree when HVAC was chosen as the first variable to split along, and when the participant decisions were grouped according to the labels in Figure 5.6. Other variables were not as successful at dividing the results into two distinct classes, regardless of the combination of categories within that particular variable. After the model had divided Monte Carlo simulation results into two classes according to HVAC category values, the next most successful variable was sought out for dividing these subsets of data into classes. The results proceeded from there until there was insufficient improvement in predictions based on class division (the criteria used were the default for rpart and are discussed in [74]) Expected values for each class are provided in Table 5.2. The results for gas follow the explanation provided for electricity results.

The results of these classification trees follow from the discussion of the Monte Carlo results (Section 5.3) and the OAT results (Section 5.2). HVAC, equipment power, equipment schedules, lighting power, and lighting schedules all saw the largest standard deviations in participant decisions in the OAT electricity analysis, and it is therefore unsurprising that they should feature prominently in the classification tree for electricity use. Interaction effects can be seen when the same variable reappears in the same branch of the tree (but not immediately following its previous appearance). The branch of the tree that contains the sequential splits along the equipment power variable (nodes 7, 14, and 15) does not exhibit interaction effects; the tree is deciding that the previous classification of categories can be further refined to improve predictions of energy use. However, interaction effects occur with the HVAC variable and equipment schedule, equipment power, and lighting power variables. HVAC reappears in nodes 20 and 21 after having appeared earlier in node 2. In this case, the classification tree has decided that HVAC categories split the data well (node 2), and then equipment schedules are next best at refining this subset of data, followed by equipment power being the next best division for refining predictions. HVAC is then once again best at predicting energy use; because this split did not occur immediately following the grouping of HVAC categories in node 2 it means that equipment power and schedules divide the data into



Figure 5.6: Classification tree of participant decisions for total annual electricity use. See Table 5.2 for supplemental information.

Node	Variable name	Number of cases	Categories	Expected value (kWh)
1	root 199		all data	27356
2	HVAC	99	a,d,h,j,k,l	23599
3	HVAC	100	b,c,e,f,g,i	31075
4	Equip. Sched.	9	g	15401
5	Equip. Sched.	90	a,b,c,d,e,f,h,i	24419
6	Equip. Power	52	b,d,f,g,h,j,k	28071
7	Equip. Power	48	a,c,e,i,l	34329
10	Equip. Power	45	b,f,g,j,k	21772
11	Equip. Power	45	a,c,d,e,h,i,l	27066
12	Light. Power	44	a,c,d,e,f,g,i,j,k	27008
13	Light. Power	8	b,h	33917
14	Equip. Power	38	a,c,e,l	32852
15	Equip. Power	10	i	39942
20	HVAC	32	a,d,h,j,k	20039
21	HVAC	13	1	26039
22	Occupancy	36	a,b,d,f,g,h,j,l	25875
23	Occupancy	9	c,e,i,k	31831
24	HVAC	19	c,i	25022
25	HVAC	25	b,e,f,g	28518
28	Geometry	12	e,h,j,k	29904
29	Geometry	26	a,b,c,d,f,g,i,l	34213
44	Geometry	20	b,c,e,g,i,k,l	24407
45	Geometry	16	a,d,f,h,j	27710
50	Equip. Sched	7	a,e,g	24788
51	Equip. Sched	18	b,c,d,f,h,i	29968
58	People LHG	11	b,e,i,l	31969
59	People LHG 15		a,c,f,g,h,j,k	35858

Table 5.2: Supplemental data for Figure 5.6



Figure 5.7: Classification tree of participant decisions for total annual gas use. See Table 5.3 for supplemental information.

categories where HVAC settings once again become relevant. A similar pattern of interaction occurs when HVAC shows up in node 3 and reappears in nodes 24 and 25, after the data have been categorized according to equipment power and lighting power. The source of these interactions is the waste heat from equipment and lights increasing the loads on the HVAC system. The classification tree therefore exposes links between specific participant decisions in one set of variables and another set of participant decisions in other variables.

The appearance of occupancy, geometry, and the people latent heat gain in the electricity tree (Figure 5.6) is potentially indicative of over-fitting since these variables had very little impact on predictions in the OAT analysis and very little standard deviation. Gas results additionally follow from the OAT gas usage analysis in that the primary nodes in the classification tree are the HVAC settings, and HVAC had by far the greatest standard deviation in the OAT analysis. Occupancy made an appearance in this tree as well despite little deviation in the impact of participant responses, which indicates that there was perhaps pooling in the Monte Carlo data that happened to correspond to the sampling of occupancy values. The random forests analysis in the following section addresses these potential issues with over-fitting.

Node	Variable name	ariable name Number of cases		Expected value (MBtu)
1	root	199	all data	152
2	HVAC	106	a,c,d,f,h,j,k	43
3	HVAC	93	b,e,g,i,l	277
4	HVAC	94	a,c,d,h,j,k	30
5	HVAC	12	f	141
6	HVAC	53	g,i,l	202
7	HVAC	40	b,e	378
14	Occupancy	11	b,d,g,i,k	248
15	Occupancy	29	a,c,e,f,h,j,l	427
30	HVAC	12	e	319
31	HVAC	17	b	503

Table 5.3: Supplemental data for Figure 5.7

5.5 Random forest results

The methods section on random forests, Section 3.3, explains how random forests are composed of trees that have been trained on random subsets of data and only allowed to look at a random subset of variables for determining the best variable for a split. Variables that are successfully used to differentiate energy predictions in these trees are given a vote. Accumulated votes for a particular variable then indicate the likelihood that participant decisions for this variable have a distinct effect on energy predictions. Random forests are quite robust against sample size and avoid overtraining of the data [71], but no individual tree is provided as a result of random forests. Therefore the plots below give an indication of which variables are most important at determining energy use when interacting with other variables at random, but do not give a specific example of these interactions. Additionally, they do not provide information on the magnitude of changes in energy use predictions.

The random forest results for electricity largely confirm the classification tree results and the OAT analysis. The most notable exceptions to the classification tree predictions are the ranking of window and DHW equipment decisions above those of geometry, people latent heat gain, and occupancy, as all of these latter variables made an appearance in the classification tree but the former variables did not. The significance of this finding is that in the absence of the top four predictors of electrical energy use (HVAC settings, equipment power, lighting power, and equipment schedules), participant decisions for windows and DHW equipment are effective predictors of energy use; in the presence of the top four predictors (as was the



Figure 5.8: Random forest results for total annual electricity use.

case in the classification tree in Table 5.2), geometry, people latent heat gain, and occupancy decisions take the place of windows and DHW equipment.

As with the classification tree results, the OAT analysis, and the Monte Carlo analysis, gas results are again dominated by HVAC decisions. Occupancy is in fact the next most important variable to HVAC, as predicted by the classification tree, but it is only slightly better than many other variables. The variables of noticeable importance are all unsurprising to gas use, so the discussion turns to the 7 least important variables for predicting gas usage. With the exception of exterior lighting, all of these variables could potentially affect heating values in a general sensitivity analysis of this building. However, these results indicate that participant decisions for this model did not vary at a great enough magnitude to overcome interactions with other variables.

The random forest results corroborate the results throughout this analysis regarding the importance of modeler decisions primarily in HVAC decisions results, but additionally in decisions related to lighting and electricity power use (for electricity). The repeated confirmation of the significance of HVAC results and the complexity of modeler decisions for



Figure 5.9: Random forest results for total annual gas use.

HVAC settings warrants further investigation in the following section before turning to the analysis of modeler background and how it relates to model input decisions.

5.6 HVAC classification tree and random forest results

Modeler decisions for HVAC settings were previously categorized independently for each modeler due to the diversity in representation of HVAC systems. For the same reason, OAT and Monte Carlo substitutions occurred using the entire HVAC system for a given sampling. However, modeler settings for various HVAC variables can be categorized, as discussed in Section 4.1. Classification tree and random forest methods can be applied to this categorized data to assess the relative importance of participant decisions within the HVAC systems and in the presence of other variables randomly being sampled. For this analysis, all of a modeler's categories of decisions for their HVAC systems were acquired



Figure 5.10: Classification tree of HVAC parameters for total annual electricity use. See Table 5.4 for supplemental information.

whenever that modeler's HVAC decisions were used in the given Monte Carlo run. All other variables were left out of the analysis in order to isolate the effectiveness of HVAC decisions at differentiating modeler predictions. Due to the fact that Monte Carlo results were created by sampling all of a participant's HVAC settings at once, it is possible for combination effects to occur consistently in a given modeler's decisions (this co-varying was avoided in the preceding analyses by the random nature of the Monte Carlo sampling participant decisions only co-occurred by chance). To accommodate potential co-varying effects into the analysis, the classification tree and random forest routines were still provided with unique categories for each participant's decisions. In this way, it was possible to assess the effectiveness of individual parameters relative to the HVAC system decisions in totality, in addition to any geometry effects that could not otherwise be classified. Results for the electricity and gas classification trees are provided in Figure 5.10 and Figure 5.11 below and additional data is provided in Table 5.4 and Table 5.5.

In both the gas and the electricity random forest analyses, the combined effect (and potentially the geometry effect) of HVAC settings outweighed any individual parameter at predictive importance. Participant decisions for cooling electric input ratio (cooling EIR, which is the inverse of the Coefficient of Peformance) and the static pressure of the supply fan were primarily split between participants who entered the properties provided for the HVAC system and those who used the defaults. In the case of gas use, the cooling EIR values were indicative of default settings for other parameters that affected the gas use, since eQUEST wizard entry modes often determine the cooling EIR values in addition to



Figure 5.11: Classification tree of HVAC parameters for total annual gas use. See Table 5.5 for supplemental information.

Node	Variable name	Number of cases	Categories	Expected value (kWh)
1	root	199	all data	27356
2	Supply static	136	a,b,d,e	25096
3	Supply Static	63	c,f,g,h	32235
4	Cooling EIR	99	a,b,e,h,j	23599
5	Cooling EIR	37	d,i	29101
6	OA flow per person	19	a	30062
7	OA flow per person	44	d,e,f	33173
8	System type	80	a	22995
9	System type	19	b	26142

Table 5.4: Supplemental data for Figure 5.10

Node	Variable name	Number of cases	Categories	Expected value (MBtu)
1	root	199	all data	152
2	Cooling EIR	125	a,b,d,e,h,j	65
3	Cooling EIR 74		c,f,g,i	300
4	System type	94	a	30
5	System type	31	b,c	170
6	Return air path 34		g,i,l	209
7	Return air path 40		b,e	378
14	OA flow per person 19		a	320
15	OA flow per person	21	f	430

Table 5.5: Supplemental data for Figure 5.11

other values that affect heating energy use. Participant values for outside air flow per person were defaults for one category of participant decisions, while the other categories were the result of participants setting flow rates according to the plans. Participant return air path decisions were significant to gas but much less so than to electricity. While some participants chose packaged single zone (PSZ) and others chose packaged multi-zone systems (PMZS), which then had further effects on entry methods for HVAC decisions, this was not the most important decider of their energy predictions.



Figure 5.12: Random forest results for HVAC parameters for total annual electricity use.



Figure 5.13: Random forest results for HVAC parameters for total annual gas use.

5.7 Multiple Correspondence Analysis results

The MCA analysis was applied to the categorized participant demographic data and to the categorized participant HVAC decisions (the significant decisions for all other variables were individually categorized and would yield uninteresting results). The FactoMineR package [33] in R was used to perform the analysis and generate the results. Plots produced by multivariate analysis programs such as this one are for the purpose of visualizing the variation in columns and rows of the input matrix. In this analysis, the participant decision categories and demographic questions made up one dimension of these input matrices, and the individuals made up the other dimension. The axes and the location of points relative to these axes is unique to each input data table; these are determined by the multivariate analysis programs based on the characteristics of the input matrix. A common method of understanding these plots is to look at the variation in responses for an individual (or variable) located on or near an extreme point on an axis. The pattern of variation in the responses of this individual (or the pattern of individuals for the given variable) is representative of the variation in nearby individuals. MCA plots thereby allow the reader to observe patterns in variables or individuals by observing where they fall relative to other variables or individuals on the plots. Points that are on extreme locations of the axes will share little in terms of patterns of variation, and points that are intermediate between two points will be intermediate in their pattern of variation. (This is the reason for not plotting variables for which all participants gave a unique response - all participants and variables would vary in exactly the same pattern and would be located on top of each other on the plot).

Figure 5.14 displays the clustering of demographic responses that varied similarly across participants, and Figure 5.15 shows the clustering of individuals who varied similarly in their responses to the demographic survey. Likewise, Figure 5.16 shows the participant decisions for HVAC that varied similarly, and Figure 5.17 shows participants that clustered together in decision-making patterns for HVAC settings. The demographic plots (Figure 5.14 and Figure 5.15) were not computed simultaneously with the HVAC input decision plots (Figure 5.16 and Figure 5.17), so the axes do not yield information about the direct connection between variation in each plot. However, clustering in one plot (whether variables or individuals) that is also clustered in the other will indicate a trend between modeler background and HVAC decisions.

On a whole, clustering between individuals on demographic survey responses do not translate to clustering on the HVAC decisions. For example, participants 731 and 913 had different patterns of responses on the demographic survey, but they made nearly identical HVAC input decisions. The notable exception to this is participant 027, who was an extreme outlier on answers to demographic survey questions and on HVAC decisions (this is the same modeler whose HVAC decision was discussed in Section 5.3). (Curiosity about the relationship between parameters on these plots can be answered through an examination of the input tables provided in Appendix F). Individual participant demographic data cannot be provided (due to the protocol for the protection of human subjects), but a summary of the demographic responses are included in Table 5.6. Data from this particular sample



Figure 5.14: MCA plot of similarity between participant responses to the demographic survey. Axes are non-dimensional; the percentages on the axis indicate the amount of variation in responses that can be accounted for by the axis.



Figure 5.15: MCA plot of similarity between participants in responses to demographic survey. Axes are non-dimensional; the percentages on the axis indicate the amount of variation in responses that can be accounted for by the axis.



Figure 5.16: MCA plot of similarity of variation between HVAC input parameters. Axes are non-dimensional; the percentages on the axis indicate the amount of variation in responses that can be accounted for by the axis.



Figure 5.17: MCA plot of similarity between modelers in HVAC input decisions. Axes are non-dimensional; the percentages on the axis indicate the amount of variation in responses that can be accounted for by the axis.

of modelers indicate that there is little relationship between modeler decisions and demographic background, other than perhaps that outliers in background may also be outliers in energy decisions. Additionally, Table 5.6 indicates that the sample of modelers had a lot of diversity and is therefore the results of this study are transferable to many different modeler backgrounds.

Demographic topic	Summary of data
Has (some) Mechanical Engineering back- ground	12 participants
Has (some) Civil Engineering background	2 participants
Has (some) Architecture background	3 participants
Has (some) other background (e.g. con- struction)	2 participants
Has a Masters degree	5 participants
Number of years working in the BES field	Range: 0.5 - 15 years, Average: 5 years, Standard Deviation: 4 years
Number of years working with eQUEST	Range: 0.5 - 9 years, Average: 4 years, Standard Deviation: 3 years
Percent of job spent working in BES	0 - 24%: 6 participants, 25-49%: 2 partic- ipants, 50-74%: 1 participant, 75 - 100%: 3 participants
Percent of BES activities performed in eQUEST	0 - 24%: 4 participants, 25-49%: 1 partic- ipant, 50-74%: 3 participants, 75 - 100%: 4 participants
Received training in eQUEST	8 participants
Type of training in eQUEST	Course: 3 participants, Peer: 4 participants, No Response: 1 participant
Number of other BES programs known	Range: 0-5 programs, Average: 2 pro- grams, One or more other programs: 9 participants
Familiar with Trace (most common other BES program listed)	5 participants
Received training in one or more of these other BES programs	7 participants
Typically model commercial buildings	12 participants

Table 5.6: Summary of data collected from modeler demographic survey.

Chapter 6

Discussion

6.1 Framing the discussion of this research

The work presented in this dissertation is aimed at the issue of the variability (and uncertainty) introduced into the simulation process by modelers. It is not meant as a general sensitivity analysis of BES programs - these studies have been extensively conducted, as discussed in Chapter 1. Sensitivity analyses, such as the one performed in [21], vary a wide range of parameters (nearly 1000 in this particular study), and attempt to assess trends in energy predictions from these variations. The results of these sensitivity analyses are useful for understanding the connection between modeler decisions and simulation outputs, but their direct use in assessing modeler decisions would lead to faulty conclusions regarding modeler variability. Modelers in the study, and in typical work conditions, are operating under a set of assumptions about how they should create the model. Sensitivity analyses, which operate outside of these conditions, will not yield revelatory information about modeler assumptions. The study modelers, for example, typically conducted their simulation projects within the San Jose climate zone, and additionally were local to this area and familiar with the weather patterns. On conscious and subconscious levels, their modeling habits are affected by this environment, and it may be that modelers conducting simulations within their local climate will make modeling decisions based on intuition from past modeling experience and familiarity with the weather conditions. Observing the impact of different climate zones on the results from this study, therefore, would be making an overreaching assumption that the modelers who participated in this study would make similar decisions for other climate zones, or, more importantly, that modelers from other climate zones would make similar decisions to those made by the local modelers used in the study. In general, modelers may have knowledge about the sensitivity of simulation programs to various inputs and may adjust their inputs accordingly. Therefore it is important to evaluate modeler decisions independently from a sensitivity analysis, and to use sensitivity analysis results only to better understand the impact of modeler decisions on simulation.

As discussed in Section 2.6, the merits of this study should be evaluated in terms of

transferability to other modeling scenarios rather than strict generalizability to the modeler population. The analytical methods employed in this study are commonly used to improve on the predictions made from relatively small sample sizes by testing the statistical likelihood that the number of people within the study sample would make the same decisions as each other but that they would collectively deviate from the trends of the general population. The sample size of 12 was reasonably informative under these statistical tests. Additionally, with only two exceptions, the demographic backgrounds of participants varied substantially (as displayed in Figure 5.14 and Figure 5.15), indicating that the results from this study are not the result of a pooling in participant demographics in the study sample. The two exceptions to the diversity of modeler backgrounds were that all modelers did have some background in Mechanical Engineering and all typically modeled commercial buildings similar to the school building used in the study. The former means that the results are transferable to modelers with backgrounds in Mechanical Engineering, although it may be that a Mechanical Engineering background is effectively a requirement for being a building energy modeler. The fact that all modelers had a background in modeling buildings similar to the one used in the study improves on the transferability of the results. The study tested professional modelers in a setting very similar to those of their work conditions, with the exception that they were subject to additional time pressure to force prioritization of modeling decisions. The results are therefore likely be applicable to the local simulation community for projects that are consistent with the types of modeling projects they are familiar with, and may even be extensible to modelers throughout other climate zones who are working on familiar projects. Further investigation is of course required to determine the extent to which the results of this study apply to other modeling populations and to confirm the applicability within the local population under different conditions; recommendations for these future areas of study are made in Chapter 7.

6.2 Sensitivity analyses, actual buildings, and modeler variability

Despite the caution against using sensitivity analyses to evaluate modeler decisions (Section 6.1), sensitivity analyses provide a basis for understanding the typical responses of buildings to varying inputs. A comparison between typical building sensitivities and the sensitivity of this particular building to modeler decisions provides useful information about the role of modeler variability in overall BES uncertainty. Additionally, the performance of actual buildings can aid in assessing the issue of layered sources of variability.

Many studies exist that show that buildings are highly sensitive to HVAC settings and that there is much variability between HVAC systems. A study by Korolija et al. [43] found that the relationship between the energy used by an HVAC system and the loads on it was not a consistent one. A multivariate analysis in combination with building energy management system and energy use data determined that the primary source of heating energy requirements were system settings, not weather [16]. In particular, this study found that electricity use was driven by the setpoint temperature and the fans. [29] also found that, in mild to cooling dominated climates, fan energy dominated HVAC use. It thus is sensible that the OAT, classification tree, and random forest analyses for modeler variability all show that HVAC decisions are consistently the most important. However, classification tree and random forest analyses of just the HVAC properties show that the combined properties of the HVAC systems are more important than any individual HVAC property. Setpoint temperatures were not changed by modelers in this study, and therefore did not register as significant to modeler variability. Fan settings did change between participants, but it is possible that the modelers changed HVAC settings in a manner inconsistent with those of the sensitivity analyses.

Most of the participant energy predictions were considerably higher than those of the baseline model. The NBI data indicate that models typically under-predict the energy use of actual buildings [24, 59, 67]. However, these data indicated that in some cases, models over-predict building energy use. Additionally, other studies that have modeled actual buildings and compared simulated and true energy use have found lower energy use in the actual building [3, 19]. Both of these studies attributed some of the error to excessive plug loads in the models. Models made by participants did in fact have considerably higher plug loads than the baseline model, which means that the baseline model may be true to the actual building (if it were built).

The question arises of what actual buildings are sensitive to. A number of studies have been conducted abroad (Taipei [50], Hong Kong [10, 11], and Bangalore [66]) that find regression fits for energy use in buildings against a variety of potential indicators. The results of these studies indicate that the operating hours of the building are significant to energy use. These studies were preceded by a study in the US by Sharp [68] that additionally concluded that the number of personal computers in a building materials [12] indicates that thickness of insulation barely matters compared to other features such as material, density, and moisture content. All of these results are in alignment with the order of magnitude of the effect of modeler decisions on energy predictions - equipment power and schedules mattered greatly, and wall properties mattered little.

While the results of the modeler study reasonably align with existing sensitivity analyses and assessments of true building energy use, they have implications for much of the sensitivity analysis research discussed in Chapter 1. Many sensitivity analysis conclusions come out of the work of individual modelers. The results of these studies are called into question if no effort was made to mitigate the variability introduced by the modeler conducting the study.

6.3 Evaluating the study procedure

The procedure of the study on modeler variability was designed in a manner consistent with basic social science research methods and with the few other attempts to assess the performance of building energy modelers [28, 30, 34]. Details of this modeler study are open to the criticisms outlined below, but the core principle behind the study - to give all participants identical conditions for the simulation project and to then evaluate the results - is solid. Studies that follow this methodology are so important to BES uncertainty and variability research and yet so underperformed that any study conducted in this area yields valuable information provided the limitations of the study are taken into account.

6.3.1 Trade-offs of this study procedure

The limited time given to modelers (three hours to complete a model of the building) was designed to mimic the pressures of having limited time to work on a modeling project and being forced to prioritize time spent on modeling tasks that were perceived to be important to energy predictions. It is possible that the time provided to modelers was too short for them to follow a prioritization process and because of this, some of the models in this study may reflect only the initial phases of modeling rather than intentional focus on important modeling decisions. However, in their modeling notes and in the discussion after the study event, only one of the modelers mentioned any issues with the time provided to complete the model. This participant was also the only outlier in the MCA analysis in Section 5.7and the source of the outlying gas usage predictions from the Monte Carlo simulation. The participant mentioned that the default U-values for the windows and walls were used, that the lighting power and the density of people were not accurately entered, and that the solar heat gain coefficient was left as the default as well. Therefore, in the one case where a modeler expressed issues with the time constraints of the study, we still have information on the modeler's prioritizations. Because modeler feedback was specifically sought out following the study and this participant was the only one who expressed any concerns, it is very likely that the time frame of the study was appropriate for the effects of prioritization to surface.

The size and type of building given to modelers for the study was chosen to be reasonable to model within the study time period, yet complicated and large enough that modelers would differentiate themselves in the modeling process. As per the discussion above about the successful gauging of the study length, and as exhibited by the variations in the data presented in Chapter 5, the choice of building was successful for these requirements. However, it was a single building, and therefore there is a large amount of knowledge still missing for how modelers deal with other types of buildings.

Modeling plans were indicated by the expert modeler as being representative of plans typically given to modelers for building projects [41]. Additionally, the plans were provided by a large architecture firm, and therefore fit with the standards of the profession. Furthermore, none of the modelers expressed any concerns during the study that they had difficulty with the plans as provided.

While the small sample size of modelers made the data limited in generalizability, it was still a very rich case for qualitative analysis and has highly transferable results. The thorough exploratory analysis of all participant files allowed for the development of a process that could be applied to the analysis of further studies on modeler variability. (The recommendations for this methodology are described in Section 7.1). Although a larger sample size is advisable for modeling studies going forward, this smaller sample size was ideal for a pilot study such as this one.

Gathering the modelers together for this experiment allowed for a controlled study environment to ensure that all participants spent only the allotted time on the study and were personally responsible for the models they created (rather than a group effort). The downsides of this study procedure were that the study time had to be limited to time periods modelers would be willing to attend, and that modelers were not in their typical work environment.

6.4 Discussion of study results

The discussion of the analysis of this research makes the distinction between the modeling errors and modeler variability. Modeling errors fall under the category of uncertainty, while modeler judgment falls under the category of variability. The determination of the magnitude of uncertainty caused by modelers relative to the variability introduced by modelers will guide the conclusions of this research.

6.4.1 Evaluation of modeler errors

Errors are defined here as unintentional entries on the part of the modeler. Any intentional entry (or lack of entry) by a modeler is considered a modeler decision and is discussed in the following section. Intentional modeler entries that are incorrect for the building modeled cannot be distinguished as errors rather than decisions from the data available from this study. Furthermore, even the most inexperienced modelers seem to be familiar with the concepts involved in modeling a building, and if they used defaults it is because they chose to prioritize another task rather than replace these defaults with their own values. The errors listed in Table 6.1 were assessed to have occurred in situations where the modeler had a clear pattern of decision-making for a given parameter and then deviated in only a few instances. Patterns of decision-making were typically divided into "use of defaults" and "entering plan data". One exception was made to this pattern/exception distinction - the model with all interior walls on the exterior of the building was clearly a mistake, as the PD2 file revealed a building shell just outside of the floor plan area. EQUEST determines the assignment of interior and exterior walls by their location relative to the building shell; walls interior to the shell would automatically be assigned as interior walls regardless of the fact that they were on the outside of the floor plan. This error occurred on other participants' models for the same reason, albeit only on a few walls. Inappropriate interpretations of the building plans into the models will be discussed in the section on modeler judgment below.

The interior and exterior wall type errors appear to have had little effect on simulation results, as evidenced by Table 6.2 - two of the three participant simulations that had this type of error saw very little change when their data was transferred to the baseline file (the

Desc. of error	Explanation of error	Num. of model- ers (mod- eler num.)	Magnitude of effect, as assessed by OAT	Impor- tance of error, as assessed by random forest
Exterior walls as interior walls	027 had all interior walls on exterior of building, 019 had roughly a quarter, and 634 had only a few	3 (019, 027, 634)	Likely minimal, see discussion and Table 6.2	N/A
Interior wall as exterior wall	Participant had a single interior wall as exterior wall construction	1 (019)	Likely minimal, see discussion and Table 6.2	N/A
Incorrect lighting power	Participant otherwise entered lighting power from plans. Entered .62 kW instead of .062 kW; had another room with identical lighting information correct. Same participant entered 0 for two rooms with highest power ratings.	1 (845)	Contributed to large standard deviation but not to average deviation from baseline values (counter- balanced by a high lighting power model)	3rd most important parameter for electricity use, 9th most important for gas use
Mis- placed space (room)	Participants had room locations that deviated from plan locations (both cases are only questionably mistakes, see discussion)	2 (718, 845)	Likely minimal, see discussion and Table 6.2	N/A
Zone type	Participant had 3 conditioned zones labeled as unconditioned, but otherwise followed plans	1 (834)	Negligible	Negligible

Table 6.1: Table of all identified errors for modeler files.

baseline file did not include these errors). Particularly because participant 634 had the fewest exterior wall errors out of the two other files in this category of error, it is likely that the large differences for this model are caused by modeler judgment, and will be discussed in the following section.

The misplaced rooms in the models of participants 718 and 845 may have resulted from the method by which additional building shells are added in eQUEST. Both of the misplaced rooms are modeled as having a different height than the rest of the rooms, and the only way to insert rooms of different heights is to create a new building shell. EQUEST imports these shells to a default location relative to the rest of the model, and these participants may have decided to leave the rooms in the default locations and spend their time on other features. The misplaced room for participant 718 is only shifted by a small amount, making this fairly likely to have been caused by modeler decisions to not spend time shifting it back. The misplaced room for file 845 is located in a position similar to the overhang for the building, and the two are possible to confuse in the plans. However, this participant put the misplaced room on the correct HVAC system, which indicates that the modeler was aware of the original location but did not prioritize moving it to the correct location. The preponderance of the evidence leans towards these misplaced rooms being the result of modeler judgment rather than error, and their effect will therefore be discussed in section on modeler judgment below.

Participant 834 left the lobby area unconditioned when it should have been conditioned. This participant followed the mechanical plans when zoning the HVAC system, and the connections for the lobby area were more difficult to notice in the plans than the connections in the rest of the building. By contrast, participants who did not follow the mechanical plans for the HVAC system zones left all zones in the default "conditioned" state. As can be seen by Figure 5.2 and Figure 5.3, this mistake had negligible impact on simulation results. Additionally, the random forest results from Section 5.5 indicate that the zone type was relatively unimportant for distinguishing simulation results. Despite the insignificance of this error, it is interesting to note that the increased effort to represent the building plans faithfully led to errors that would otherwise have not been present on this scale had the modeler kept the default settings.

An increase in errors being caused by an attempt to be faithful to building plans was also exhibited by the mistake for lighting power entry. This participant was one of only two participants who entered lighting power for rooms according to the lighting plans. The modeler clearly made a transcription error when entering 0.62 kW instead of 0.062 kW. The absence of lighting power in two of the rooms is attributable to the fact that these rooms required additional calculations beyond the other rooms - in the lighting schedule, the power ratings for these lights were given per 4 feet of lights, and the length of the lights was not immediately available from the plans. Therefore, for this room, two additional calculations were required beyond the typical room, and it is possible the modeler ran out of time or simply decided to leave these values out of the model. The presentation of lighting information for use by modelers is particularly ill-suited to entry in eQUEST, and will be discussed further in future sections.

Overall, unintentional deviations from buildings plans were not common, and the errors

that did occur generally did not have a large impact on results. The discussion now turns to the issue of modeler judgment, which is where the majority of differentiation between modelers occurred.

6.4.2 Discussion of modeler judgment

All differentiation between modelers that was not explained by the errors from Table 6.1 can be discussed in terms of modeler judgment. Modeler judgment includes the entire spectrum of intentional modeler actions, ranging from those caused by ignorance and naïve decisionmaking to those caused by expert knowledge and discernment. The random forest results from Section 5.5 and the OAT results from Section 5.2 guide the discussion of the importance of various modeler judgments, along with an investigation into the effects of participant original geometry decisions on simulation results.

In most of the areas that modelers made decisions in, there was little difference between the results of modeler decisions and the result of the baseline model. As the baseline model was created with unlimited time and with expert input to ensure best-practices, it is reasonable to assume that these areas are not important sources of modeler variability. The discussion will instead focus on the areas where variability between modelers is significant. Modeler variability can be divided into three classes through a comparison between OAT results and random forest rankings: 1) large deviation from baseline values but low variation between modelers (high impact in OAT but low impact in random forest results), 2) variation with strong interaction effects but low impact in specific scenarios (low OAT impact but high importance in random forest), and 3) large deviation from baseline values with high variability between modelers (high OAT impact and great importance in random forest). Note that the use of "high" and "low" in these contexts is relative. Original participant geometry is discussed as a special case owing to the lack of random forest results to contrast with OAT results.

The comparison of gas results between the OAT analyses and the random forests was very straightforward. HVAC system settings were more important than all other categories in both analyses. In OAT, occupancy had minimal impact on gas usage predictions, but in the random forest analysis, occupancy was the next most important parameter for determining gas usage. This was easily attributed to the fact that participant water heaters were gas powered (where the baseline model was electric), and flow rates for water usage are determined by occupancy.

For electricity, modeler decisions were classified as follows, with special cases asterisked:

- 1. High OAT impact, low random forest impact
 - Exterior lighting
 - Lighting schedule
 - DHW equipment*

- 2. Low OAT impact, high random forest impact
 - DHW equipment*
 - Space and plenum heights
 - Windows
- 3. High OAT impact, high random forest impact
 - HVAC
 - Equipment power
 - Equipment schedule
 - Lighting power*

Class 1 decisions highlight areas where most modelers did not follow the baseline decisionmaking process. The reason decisions ended up in class 1 varied. Few participants chose to include exterior lights in their models while the baseline model did have exterior lights, which led to a large deviation for OAT results for this category. The combination of the fact that modelers were fairly consistent in not including exterior lights and the fact that exterior lights are not influencing other forms of energy use meant that they had low importance in differentiating energy results. Lighting schedules were largely consistent in deviating from the baseline model in that very few participants included weekend lighting into their schedules, which in turn led to low importance in random forest results. DHW equipment was a special case in the classification of modeler variability because it had a moderate impact on the magnitude of OAT results but with minimal variation. (The moderate impact case is discussed here, while the low variability aspect is discussed in class 2). Modelers consistently chose the default case of gas for the water heater equipment rather than the electric equipment chosen for the baseline model, leading to a high OAT impact and a low random forest impact.

Class 2 decisions are the ones where high variability between modelers mixed with high interaction effects. This class is interesting because of how their significance was masked by the settings of the baseline model, but they were significant in interactions with other modeler decisions. DHW equipment is discussed here because the switch from an electric to a gas water heater yields similar changes in energy predictions in the baseline model regardless of specific settings chosen by participants. When interacting with the decisions of other participants, however, the settings on the gas water heater matter more and therefore have a high random forest importance relative to the (lack of) variability of the OAT analysis. Space and plenum height and window decisions varied greatly but mattered little when substituted into the conditions of the baseline model. However, in combination with other modeler decisions (primarily inefficient HVAC systems), they had a greater impact on energy predictions than they did in the OAT analysis.

Class 3 decisions are the ones that are the source of the most significant variability from modelers. This class is the result of high variability between modelers, large deviation from



Figure 6.1: Faithful model of the building from the study (left) and single story (baseline) version of the model (right).

baseline conditions, and strong interaction effects as well. HVAC decisions were too diverse to classify (as discussed in Section 5.6) and had a very large impact on results. Buildings are highly sensitive to HVAC settings, which causes an amplification of the impact of modeler decisions in this area (HVAC sensitivity will be discussed further below). Modeler decisions for equipment power all fell within recommended standards for equipment power levels for office type buildings, yet there was great variability in modeler inputs, and as a result of high equipment power usage, there were also significant effects on energy predictions. Modelers had greater variability in the choice of equipment schedules than they did with lighting schedules, and the combination of high equipment power being present in all participant models (relative to lighting power) meant that equipment schedules were more important to differentiation of energy predictions than lighting schedules. Equipment effects as well as lighting effects are significant to energy use because of interaction with HVAC systems - the waste heat of equipment and lights either reduces or increases the loads on the HVAC system. Lighting power decisions were a special case to this class for two reasons. One of the data points in this category falls under umbrella of "errors" and therefore shouldn't be seen as a modeler decision (as discussed in the section above on modeler errors). Additionally, lighting levels hovered around baseline values, most likely because of Title 24 defaults being included in eQUEST options. Despite the average of modeler decisions not deviating significantly from baseline values, there was high variability in lighting power and therefore high importance in random forest results.

Geometry decisions are best explored through Table 6.2 in comparison to the baseline models in Figure 6.1.

CHAPTER 6. DISCUSSION

Table 6.2: Visualization of geometry differences and the effect they have on energy predictions (as compared to baseline model predictions). The percent difference column represents the change in energy predictions when the participant model's geometry is changed to the baseline model's geometry, relative to the participant's original energy predictions.

% Diff.	Part. Num.	3D geometry	Floor plan
3.62	913		
2.01	625		
0.80	834		

% Diff.	Part. Num.	3D geometry	Floor plan
0.73	379		
-0.36	019		
-0.66	027		
-0.98	718		

Table 6.2 – continued from previous page $% \left({{{\rm{D}}_{{\rm{B}}}}} \right)$

% Diff.	Part. Num.	3D geometry	Floor plan
-1.31	731		
-11.12	730		
-14.05	634		
-14.43	437		

Table 6.2 – continued from previous page $% \left({{{\rm{D}}_{{\rm{B}}}}} \right)$

% Diff.	Part. Num.	3D geometry	Floor plan
-21.88	845		

Table 6.2 – continued from previous page

As is apparent from the 3D images of building geometry, modelers are making very different decisions in this area. However, Table 6.2 also shows that the transition from a modeler's initial geometry to the baseline model geometry does not produce a single overall trend. There appears to be a reasonable trend that models that already omitted the vaulted lobby saw little change in energy predictions between their geometry and the baseline model, which also omitted the vallted lobby. However, model 625 and 730 are notable exceptions to this trend. Additionally, models 718 and 731 have vaulted lobbies and fall within the same magnitude of change in energy predictions that the models without vaulted lobbies fall. Furthermore, Figure 6.2 displays the percentage of total energy used for cooling the building in both the original participant geometry and the baseline geometry, but does not indicate consistent trends in changes in energy use profiles between the two geometry cases. Most participant files showed only magnitude changes between the original and baseline geometry cases, including model 437. Models 027, 634, and 845 had the most noticeable changes in profiles, but while 027 and 845 had errors that could account for the differences in profiles, 634 did not. All of these exceptions indicate that there are confounding factors (primarily HVAC settings) in what may appear to be a general trend. While deeper investigation of these trends would enrich the results of this study, assessing and classifying geometry effects on energy use is highly complicated and an area of study in its own right. As demonstrated by the OAT results in Section 5.2, the effects of these geometry changes are of a lesser magnitude than the class 3 modeler decisions discussed above, and are primarily related to the HVAC decisions already discussed for this class. The evaluation of modeler decisions in this area will therefore be deferred to the discussion of future work in Chapter 7.


Figure 6.2: Monthly cooling energy use as a percentage of monthly total energy use for participant decisions in the original geometry and in the baseline geometry. Solid lines indicate the original participant geometry cases, and lines with dots and dashes indicate the cases where participant decisions were substituted into the baseline geometry.

6.4.3 The meaning of the classes of modeler decisions

One interpretation of class 1 modeler decisions is that modelers are consistently undereducated about the best practices for the inclusion of exterior lighting in simulation plans, the type of schedule appropriate to certain buildings, or the types of water heaters commonly installed in certain buildings. This class may also be interpreted as the cases where expert decision-making was necessary to fill in gaps in building information provided to modelers, but where modelers (justifiably) consistently decided it wasn't necessary to prioritize these building features. The gains of adding detail to these particular components of the model were minimal. Exterior lights do not affect any other form of energy use, and it is open to interpretation whether a hypothetical client would want to know the exterior lighting values. Lighting schedules were an estimate on the part of the expert modeler, and are not explicitly provided to modelers; modelers may have decided an estimate of lighting schedules was not an improvement on default values. The water heater was not explicitly labeled on the plans, and again, modelers may have decided that their assessment of a most likely water heater for the space was not worth their limited time for the study.

Class 2 situations (space heights and plenums, windows, and DHW heaters) are areas where modelers have differing ideas of whether or not it is important to prioritize modeling the features accurately, and indeed, the importance of these decisions changes depending on the exact model inputs. These are the parameters that did not show great variation in energy use when put into the baseline model, and additionally did not get many votes in the random forest method when other significant building features (such as HVAC and equipment power) were available to be chosen as the primary split. An alternate way of looking at this class is that all of these areas were cases where plans did not include specific information, but modelers assessed that their estimates would improve on model accuracy. In this latter explanation, the importance of devoting time to modeling these features accurately depends entirely on the features of the specific model.

Class 3 yields information about the largest sources of modeler variability. The scenarios in this class fall into two categories: A) those that are caused by the difficulty of converting plan information into model inputs, and B), those caused by a lack of information on values to enter. HVAC and lighting information fall into the former category for eQUEST, and equipment power levels and schedules fall into the latter. Both lighting and HVAC information is presented in building plans very differently than the modeler must enter the data in eQUEST. Many calculations are often required before lighting information can be accurately entered, and HVAC plan information must be heavily adapted and interpreted before it can be input. Equipment power levels and schedules are not specified in plans and are rarely known for a given building. It is also possible that modelers were making decisions to go with default values in these important areas because of a misunderstanding about their level of importance. They additionally may have budgeted too much time to building geometry and other settings and consequently ran out of time for the creation of HVAC systems or entering the correct lighting power.

Chapter 7

Future Work and Conclusions

Two different paths exist for the future of this research. One is to continue refining understanding of and defining modeler variability, the other is to attempt to reduce modeler variability. Both paths should be conducted in tandem. The former is necessary to evaluate and extend the results of this research, and the latter is necessary to improve the reliability of simulation results. The two avenues of research will also inform each other: improved knowledge of modeler variability will lead to more successful reduction of this variability, and efforts to reduce modeler variability will yield better information about the modeling process. Section 7.1 discusses further exploration of modeler variability, and Section 7.2 covers efforts to reduce modeler variability.

7.1 Confirmatory analyses of study results

The exploratory nature of this modeler variability study meant that the results are transferable but not generalizable to the entire modeling population. In order to arrive at generalizable results, future study will have to include significantly larger sample sizes. Further study should additionally take into account modelers in different climate zones, users of different simulation programs, and cover a range of building types. Testing procedures could be expanded to include having study subjects complete the modeling task in their normal work environment and providing them with unlimited time to complete the model. Additionally, the results from Section 5.3 and the discussion in Section 6.4 indicate at least two occurrences of modelers making counterbalancing outlying decisions and thereby preventing a larger overall variability of the sample population (these cases were: the excessive lighting power levels making inefficiency in the HVAC system, and the same modeler making opposite errors in lighting power). It is worth investigating whether modelers tend to make counterbalancing errors or if this was a fluke of the study sample.

7.1.1 Simulation program modifications

Before modeler variability studies can become commonplace, simulation programs need to be modified to allow for more expedient analysis of results. The process for eQUEST required manual comparison of thousands of data and the creation of many programs simply to read the output file, which is in an irregular text output. If the input and output files were already formatted in such a way as to enable the comparison of different models, the analysis of these results would be capable of being conducted across much larger sample sizes. (In fact, any program that has a comma separated value output format, such as EnergyPlus, will be significantly friendlier to this type of analysis). The primary recommendations for a BES program to be amenable to modeler variability tests are:

- Create an easy method of identifying spaces across models. This could be automatically accomplished through identification of a reference point and an algorithm that calculates equivalent geometries, or it could be done manually, where a researcher identifies spaces as equivalent between files and the program updates variable names and dependencies in a consistent fashion.
- Allow for easy extraction of data, with values in the original entry format (for evaluation of modeler decision making processes) and in a normalized form that can be directly substituted into a model with different geometry but produce results equivalent to the original model (e.g. data that are provided on a per area basis).

It would additionally be useful, although not strictly necessary, to have BES programs be capable of revealing consistencies and differences between types of HVAC systems. Improvements in simulation programs could additionally facilitate the study of geometry changes between participant files through a mixture of all the above suggestions.

7.1.2 General procedure for modeler variability tests

Membership of a category of modeler decisions to one of the classes of modeler variability described in Section 6.4 can be determined through a consistent testing procedure whereby modelers are given the same building to model. Modifications can be made to the procedure to account for different modeling programs, work flows, communities of modelers, types of buildings, etc. The results can be analyzed through substitution into a best-practices baseline model template. OAT and random forest analyses can be performed on the data, and classification of the modeler variability types based on these OAT and random forest results can follow the categories laid out in Section 6.4.

Modeler variability tests would simultaneously serve as assessments of the variability of a modeling population, establish the position of individuals within this range of modeler variability, and assess the propensity of the simulation program to cause each class of modeler variability. A suit of standard test buildings could even come packaged with the simulation programs to facilitate participation in modeler variability tests.

7.2 How the classification of modeler variability can be used to improve simulation reliability

Class 1 results (high OAT impact, low random forest impact) are not a primary cause of concern in modeler variability. This type of variability is easy to define because it is consistent and easy to uncover because it is common across modelers. The best methods of dealing with these deviations are to improve modeler education on the decisions that fall in this class, or to merely acknowledge that modelers are prone to introducing a bias to energy predictions in these categories.

Class 2 variability (low OAT impact, high random forest impact) is the form that will be most difficult to identify from simple inspection of a model, but it will not have as large of an impact on simulation results as class 3 variability. This class tends to be caused by features that are labor-intensive to enter but do not necessarily have a large impact on simulation results. In order to help modelers budget time for this type of task according to the usefulness for the particular simulation, a status bar could be put into the user interface of the BES program. It would let modelers know how great of a change in energy results would be caused by a specific amount of variation in the given parameter for that particular model, and the modeler could then assess how much time they should spend on the feature. For example, the status bar could tell the modeler that 10% surface area of windows versus 5% would cause a 2% change in energy results for one model, and for another model, a 14%difference. The modeler could then spend the time to get the windows correct on the second model, but would not spend the time on the first. In order to accomplish this, decisions that fall in this class would have to be performed later in the work flow rather than at the beginning. In fact, the placement of this class of decision at the end of the work flow may aid in putting the focus of simulation on the class 3 decisions.

Class 3 variations (high OAT impact, high random forest impact) are the most important to deal with to improve simulation reliability. The two types of class 3 variation have distinct sources and consequently need to be dealt with in very different fashions. Class 3, type A variability is primarily caused by large discrepancies between simulation program data entry methods and the format of data provided to modelers. In an ideal scenario, modelers would be provided with building plans that are more suitable to energy modeling. This would require a cultural shift in architectural firms, who create the plans, and possibly also construction firms, who are the primary recipients of the plans, and would therefore be unlikely in the near future. It would be much easier to deal with this type of variability through BES programs. Allowing the modeler to choose an entry method that corresponded with the format of the plans would reduce errors and calculations. It is additionally advisable to move towards the method of entry provided by the Building Component Library [23] to reduce the complexity of entry for items such as HVAC systems. BES programs could additionally do a check of manually entered data (analogous to a spellcheck) that would look for values that varied by a factor of 10 or more from other values (in order to capture simple decimal or unit errors).

Class 3 type B variability is the result of modeler judgment in areas that are not well defined for buildings but that have high impact on energy predictions. Modelers currently have to choose from a wide range of suggested values (particularly for equipment power) that are all equally legitimate. Their choice arbitrarily pins down a value in the range of variability; instead, they could choose the appropriate range and the simulation could propagate the variability accordingly. This type of approach would not only be a good entry method for class 3, type A decisions, but also for any of the areas, such as occupancy and schedules, where reliable information is not available to the modeler.

7.2.1 Researching reductions in error and variability through workflow changes

If any of the above recommendations are implemented into simulation programs, their results could be tested against previous results for the same simulation program. The goal of these studies would be to observe any changes in the membership of modeler decisions to specific classes, or to reduce the significance of class 3 variability. Implementation of the existing Building Component Library [23] functionality would be particularly accessible as a research topic and would yield interesting results about the hypotheses presented in the previous section.

7.3 Conclusions

This study of modeler variability is one of the few modeler variability studies to have been conducted and was unique in that it tested professional modelers in a controlled setting. The statistical methods used in the analysis of the study results were new to the area of modeler variability tests, and yielded insightful information regarding the sources of uncertainty and variability between modelers. Modeler error (that is, uncertainty caused by modelers) was determined to be relatively infrequent and of low impact. The combination of two of the analytical analyses, one-at-a-time factor analysis and random forests, exposed basic classes of modeler judgment (modeler variability). The OAT analysis determined the magnitude of the effect of individual participant decisions on the results of a best-practices baseline model. The random forest analysis was conducted on data that were generated from multiple Monte Carlo samplings of participant decisions. It determined which category of participant decision was most important to differentiating energy predictions when in combination with other modeler decisions. Table 7.1 summarizes the classes of modeler variability that are determined from these tests. It also provides information on the significance of each class, the categories of modeler decisions that pertained to each class for this study, and the method of mitigating modeler variability specific to each class.

The testing methods from this research are capable of being extended to future tests in order to evaluate large populations of modelers, individual modelers, and simulation programs in regards to modeler variability measures. The classification of modeler variability

	Class 1		Class 3			
			Type A Type B	_		
Tests	High OAT im- pact, low random forest impact	Low OAT im- pact, high random forest impact	High OAT impact, high random forest impact	n		
Explanation	Modelers con- sistently made a decision that caused deviation in energy predic- tions from the baseline model	Modeler varia- tion only had an impact when combined with specific decisions (but not baseline decisions)	High variation between modelers large deviations in energy predic- tions from baseline model, and large effects in Monte Carlo data	s, ⊱ d		
Significance	Modelers depri- oritize these ar- eas because they have insufficient information from plans and/or underestimate effect of decision	Modelers vary in the prioritiza- tion of modeling these features faithfully but the impact of these decisions depends on other parameters in the model	ModelershaveModelersknowdifficultyen-the value is imteringplanportant to eninformationergy results andinto model andthat it varieschoose differingand choose atlevels of fidelityarbitraryas a resultas a result	w n- nd s, n n		
Categories of modeler decisions	Exterior lighting, lighting sched- ules, domestic water heater equipment	Space and plenum heights, windows	HVAC equip- Equipment ment, lighting power, equip power ment schedule	<u>)</u> -		
Proposed mitigation	Improve modeler education on area of decision or acknowledge bias produced on results by modeler decision	Incorporate sta- tus bar into BES programs to no- tify modeler of importance of de- cision to particu- lar model	Allow for Incorporate choice of entry standard vari method that ability range matches for- into simulation mat of modeler program s plans (including choice of equip- ment model for rather that HVAC)	i- es on so es ge		

Table 7.1: Summary of classifications of modeler variability.

provided specific recommendations for accounting for or mitigating each class of variability. Future work can expand on this dissertation research and confirm the findings herein, and contribute to future changes in simulation workflow.

Appendix A

Nomenclature

Airside HVAC components - the part of the HVAC system that deals with air flow (components such as ductwork and fans belong in this category)

ASHRAE - Formerly the American Society of Heating, Refrigerating and Air Conditioning Engineers, now only known as ASHRAE

Building envelope - the barrier between the outside climate and the climate controlled by the building

California climate zone - one of the 16 characteristic climates present in California, as defined by the California Energy Commission

Cooling and heating design days - the day used by eQUEST to determine peak loads for the building in order to determine the sizing of the equipment

DOE 2.2 - a widely used freeware building energy simulation program

eQUEST - the graphical user interface for the DOE 2.2 simulation engine

HVAC - heating, ventilation, and air conditioning

Infiltration - the amount of air that unintentionally flows into the building, typically through cracks in the building exterior

Insolation - the amount of solar radiation received by a surface in a given amount of time **Natural ventilation** - a system that allows for outside air to circulate through a building passively (without being forced through by the HVAC system)

packaged HVAC systems - an HVAC system where the heating and cooling components are combined into one unit

packaged multiple zone (PMZS) - a packaged HVAC system that is controlled by multiple thermostats

packaged single zone (PSZ) - a packaged HVAC system that is controlled by only one thermostat

Plenum - the space between the structural slab and the floor or ceiling above it in which the air circulated by the HVAC system can flow

Retro-commissioning - process of determining whether the building components are the functioning the same as the design intent (and whether the components are in fact the ones in the building design)

split HVAC systems - an HVAC system with separate indoor and outdoor coils **Waterside HVAC components** - the part of the HVAC system that deals with the liquid used to temper the air (components such as piping and pumps belong in this category)

Appendix B Brief explanation of eQUEST

EQUEST is a graphical user interface for the DOE-2 simulation engine. The DOE-2 simulation engine takes input files in the INP format and reads these by means of the Building Description Language (BDL). EQUEST facilitates the creation of the INP files by having a "Wizard" entry mode', where a series of prompts guide the user through entering the majority of the information required for the INP file. The Wizard entry mode allows the user to choose between the Schematic Design entry mode and the Design Development entry mode. The Schematic Design entry mode is more expedient than the Design Development mode as it provides built-in scenarios for users to choose from (it is geared towards cases where a building is in the early stages of design and details have not been finalized). The Design Development mode allows for more customization than the Schematic Design mode, as it is geared towards investigating buildings whose plans are in a more finalized form (or completed). After exiting the Wizard modes, users may make customized edits to the model that will be recorded in the INP file; this is considered the "Detailed" edit mode. More advanced users may also edit the INP file directly. A tutorial on eQUEST is available [35].

Appendix C

Material from the Modeler Variability Study

C.1 Study recruitment email

Late-day event, new date - November 1 - Energy modeler's influence on building energy simulation results

IBPSA, USA-SF Chapter and Pacific Energy Center are teaming up with LBNL to organize a late-day event that explores the role of an energy modeler in determining building energy simulation results.

The event will consist of a 3-hour participatory study followed by dinner and lectures. It will be held on Thursday, November 1, 2012 from 3:00pm to 8:30pm at the Pacific Energy Center.

Participants are encouraged to arrive between 3:00pm-3:30pm to ensure sufficient setup time. From 3:30pm-6:30pm, experienced eQUEST modelers are invited to participate in a study where they will be given a short modeling project to complete. The projects will be used to compare the simulation results between modelers to gain understanding of how user decisions affect simulation outcomes. We will also be looking to see if certain simulation tasks are more sensitive to individual modeler choices than other tasks.

Your participation in the study would be greatly appreciated, as the results will help to answer the broader question of the reliability of building energy simulation results and also contribute to the dissertation of a Ph.D. student at UC Berkeley. Participants who wish to receive feedback on their modeling will be provided with statistics of how their modeling decisions compare to those of their peers, and how their predicted energy use compares to the predictions of other participants. All participants will receive access to the Journal of Building Performance Simulation for one year, and everyone who shows up for the study will be entered in a drawing to receive a free copy of Building Performance Simulation for Design and Operation. A free meal will be served to those who participate in the study.

The lecture portion of the event will begin at 7p (after a short break during which

participants will be served dinner). Erik Kolderup and Santosh Philip will be speaking about methods of quality control in building energy simulation. This portion of the event is open to all, and will wrap up around 8:00pm. Following this there will be a brief discussion of the preliminary study results, and the event will conclude at 8:30pm.

If you are an employer and would like to find out more information regarding the value of participation to your employee and to the study, please contact Pam Berkeley at ______@gmail.com or xxx-xxx.

RSVP by Thursday, October 18th using the form below or email _____@gmail.com. (Any questions about eligibility for the study can be directed to the same email address).

C.2 Files provided to participants



C.2.1 Architectural drawings













C.2.2 Mechanical drawings

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C.2.3 Mechanical schedule

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C.2.4 Lighting plans

C.2.5Lighting schedule

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C.3 Study website screenshots

Energy modeler's influence on building energy simulation results

Study Material	Study Material
Auxiliary Information for Simulation Task Demographic Survey Files for Simulation	An important part of this exercise will be how you budget your time on the simulation task. Direct the most attention towards the areas on the simulation you believe are the most important if you are running short on time. If you feel like you need additional information at any point, don't hesitate to ask.
Task	Your tasks during the study include:
Copy of Consent Form Optional Waiver of Anonymity Presentations Sign up for Journal Subscription Sitemap	 Generate and run an eQUEST model based on the building information provided under "Files for Simulation Task" You will be asked to turn in the .PD2 and .INP input files and the .SIM and .CSV output files. The name of the files should include the convention "PN=##", where ### is replaced by your three digit participant number. Keep a log of any key modeling decisions Create a text file to keep these notes in, and include the "PN###" naming convention in the title. These notes do not have to be extensive - stray thoughts will do. You may also write this out on paper, with your participant number written on the top. Fill out the demographic survey This can be filled out online, from the link titled 'Demographic Survey'. If you would prefer a paper copy to fill out, we have some on hand.

Subpages (3): Auxiliary Information for Simulation Task Demographic Survey Files for Simulation Task

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 Study Material 	Study Material >
Auxiliary Information for Simulation Task	Auxiliary Information for Simulation Task
Demographic Survey	You should run the simulation using Climate Zone 4 (San Jose).
Files for Simulation Task	
Copy of Consent Form	
Optional Waiver of Anonymity	
Presentations	
Sign up for Journal Subscription	
Sitemap	Add files

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 Study Material Auxiliary Information for Simulation Task 	Study Material > Demographic Survey
Demographic Survey	
Files for Simulation Task	This brief survey is of great importance to the analysis of the results - consequently, complete and accurate information would be most helpful. However, you are free to skip any questions (after these the first app). The upper util course these tables advectional before and a work before and building approximation produces the before and a start applied to the s
Copy of Consent Form	questions (other than the miss one). The survey will cover three topics, educational background, work background, and building energy simulation program background. Tod may ask for clarification on any of the questions.
Optional Waiver of Anonymity	* Required
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Sign up for Journal Subscription	
Sitemap	
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Energy modeler's influence on building energy simulation results

 Study Material Auxiliary Information for Simulation Task Demographic 	Optional Waiver of Anonymity
Survey Files for Simulation Task	Entering the information in this waiver will indicate to us that you wish to receive a more detailed analysis of your study results in the future. Checking the box to indicate that you are willing to also receive follow-up questions may mean that we will contact you with further questions about your modeling choices and thought process.
Copy of Consent Form Optional Waiver of Anonymity	This waiver of anonymity is entirely optional, and if you submit this information we cannot guarantee confidentiality of study results. However, precautions will be made to keep this key separate from study data, and we will only use the information for any follow-up questions or feedback.
Presentations	Email address
Sign up for Journal Subscription	
Sitemap	
	Participant number
	I am willing to answer some follow-up questions about the study
	Submit

You will be provided with necessary building files in order to complete certain modeling tasks in eQUEST. Once you have completed the modeling tasks, you will be asked to save a copy of the file and return it to the researchers.

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Demographic survey screenshots **C.4**

Demographic Survey

This brief survey is of great importance to the analysis of the results - consequently, complete and accurate information would be most helpful. However, you are free to skip any questions (other than the first one). The survey will cover three topics: educational background, work background, and building energy simulation program background. You may ask for clarification on any of the questions.

Please enter your three digit participant number below.*

Page 2

After page 1 Continue to next page

Educational background

In which field(s) of study did you receive a bachelor's degree? Choose all that apply. Architecture Civil Engineering Mechanical Engineering Other:

In which field(s) of study did you receive a master's degree? Choose all that apply. Architecture Civil Engineering Mechanical Engineering Other:

In which field(s) of study did you receive a doctoral degree? Choose all that apply. Architecture Civil Engineering Mechanical Engineering

Other:

Have you had any other education that doesn't fit into these categories?

If not, leave field blank. If yes, please briefly describe the additional educational background

Page 3

After page 2 Continue to next page

Work background

How many years have you worked in building energy simulation? Please enter the number of years below. If you don't remember the exact number of years, please make an estimate or enter a range.

What percentage of your job is devoted to building energy simulation?

Please estimate the current value, based on the amount of hours worked in a full time job.

0-24%

0 25-49%

0 50-74%

0 75-100%

What types of buildings do you typically simulate? (e.g. subsets of residential, commercial, etc.)

APPENDIX C. MATERIAL FROM THE MODELER VARIABILITY STUDY

What other major areas do you work in/have you worked in? Choose all that apply Architecture Construction Civil Engineering Mechanical Engineering Other:

Page 4

After page 3 Continue to next page

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Building energy simulation program background

How long ago did you start using eQUEST? Please enter the number of years below. If you don't remember the exact number of years, please make an estimate or enter a range

Did you receive any training in eQUEST?

No, I figured out how to use it myself. Yes.

If you received training in eQUEST, please briefly describe the type of training you received.

What percentage of your building energy simulation tasks are done in eQUEST? Please estimate the current value, based on the total amount of hours you typically spend modeling building energy use.

0-24% _ 25-49% 50-74%

0 75-100%

Are you familiar with any other building energy simulation programs?

If so, please list them below

Have you received training in any of these programs?

For each of the above listed programs, please briefly describe the type of training you received.

Page 5

After page 4 Continue to next page

If you feel that any of your answers from the survey may not accurately portray your experience in building energy simulation, please explain the situation here. (An example of a scenario you might bring up: You began working in the field a long time ago and currently work full time in building energy simulation, but you took many years off in between to pursue an unrelated career.)

C.5 Participant study consent form

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SAN FRANCISCO • SANTA BARBARA • SANTA CRUZ

CONSENT TO PARTICIPATE IN RESEARCH Effects of Modelers on Variation in Building Simulation Results

Introduction

My name is Pam Berkeley. I am a graduate student working with Professor Van Carey in the Department of Mechanical Engineering at the University of California, Berkeley. We are planning to conduct a research study, which I invite you to take part in.

We are inviting you to participate in this study because you are familiar with building energy simulations and have worked with the program eQUEST.

Purpose

The purpose of this research study is to assess the effect of modeling execution and choices on building energy simulation results.

Procedures

If you agree to be in this study, you will be asked to do the following:

- You will be asked to complete a questionnaire about your decision making process. The questions may be answered in the file provided or on the handouts provided. This should take a few minutes per question.
- You will be provided with necessary building files in order to complete certain modeling tasks in eQUEST. Once you have completed the modeling tasks, you will be asked to save a copy of the file and return it to the researchers.

Study time

Participation in this study will involve a total of 4 hours of your time.

Study location

All study procedures will take place at the Pacific Energy Center. Follow up questions will be asked online or over the phone as needed, but only if participant opts to contribute follow up answers.

Benefits

- There are no direct benefits to subjects. However, some subjects may opt to obtain feedback on their modeling methods, which may better inform their modeling process.
- We hope that the information gained from the study will help clarify the issue of building energy simulation uncertainty and variability, and specifically what role the modeler plays in contributing to uncertainty and variability.

Risks/Discomforts

- Some of the research questions may make you uncomfortable or make you concerned about your professional reputation. You are free to decline to answer any questions you don't wish to, or to stop the simulation tasks at any time.
- Breach of confidentiality: As with all research, there is a chance that confidentiality could be compromised; however, we are taking precautions to minimize this risk.

Confidentiality

Your study data will be handled as confidentially as possible. If results of this study are published or presented, individual names and other personally identifiable information will not be used unless you give explicit permission for this below.

To minimize the risks to confidentiality, we will do the following:

- The data will be collected anonymously, unless you choose to include personal identifiers in order to obtain feedback later in the study. Unless you have opted to include personal information, we will not maintain a link between your identity and the research data.
- Your research records, including the files and notes you produce for the simulation tasks and any optionally included personal identifiers, will be stored on a password-protected computer. All personally identifiable information that you choose to provide us with will be encoded in order to reduce the likelihood of it being tied to the study data. Unless you chose to allow us to retain your personally identifiable information for possible longitudinal studies, we will delete your personal identifiers after all study interactions have been completed.
- Only my faculty advisor and I will have access to your study records.

Your personal information may be given out if required by law. We will keep your study data as confidential as possible, unless it is certain information that we must report for legal or ethical reasons, such as child abuse, elder abuse, or intent to hurt yourself or others.

CPHS # 2012-06-4450

Future use of study data:

The research data will be maintained for possible use in future research by myself or others. The same measures described above will be taken to protect confidentiality of this study data. If you have serious concerns about your study data being maintained at some date in the future, you may contact me to request the deletion of all study data.

Compensation/Payment

You may be one of three winners of a free copy of a copy of Building Performance Simulation for Design and Operation. If you show up to the study, you will be given online access to the journal Building Performance Simulation for one year, which includes access to the archives. You will receive a free meal at the completion of your participation in this study.

Costs

You will not be charged for any of the study activities.

Rights

Participation in research is completely voluntary.

You have the right to decline to participate or to withdraw at any point in this study without penalty or loss of benefits to which you are otherwise entitled.

Questions

If you have any questions or concerns about this study, you may contact Pam Berkeley at 508-981-9918 or pmberkeley@gmail.com. Or you may contact my faculty advisor, Prof. Van Carey, at 510-642-7177 or vcarey@me.berkeley.edu.

If you have any questions or concerns about your rights and treatment as a research subject, you may contact the office of UC Berkeley's Committee for the Protection of Human Subjects, at 510-642-7461 or subjects@berkeley.edu.

Consent

You have been given a copy of this consent form to keep.

CPHS # 2012-06-4450

If you wish to participate in this study, please sign and date below.

Participant's Name (please print)	Date
Participant's Signature	Date

Person Obtaining Consent

Date

CPHS # 2012-06-4450

Appendix D

Recreating Participant 625's Model

The PD2 file for participant 625's file was intact; only the INP file was missing. The PD2 file was opened in eQUEST and a simulation was run with it, which produced an INP file based on the wizard entry mode values. The remaining detailed edits that the participant had made were capable of being read from the SIM file, so these were input into the model in the detailed edit mode. Some properties had to be inferred from the SIM file output, such as wall properties, as these properties are reported only in terms of the final U-value, but not the entered components. For these properties, various common constructions were iteratively attempted until the output SIM file had the same values as the original SIM file. The recreation was successful - the original monthly energy use predictions are plotted with the monthly predictions from the recreated file. The two versions of the baseline model are included in Figure D.1. The recreated 625 file, for both electricity and gas predictions, has a lower standard deviation from the original monthly predictions than the difference between the two versions of the baseline. (For electricity, the standard deviation for the recreated 625 is 31 kWh, while the standard deviation for the baseline model with the vaulted lobby is 83 kWh. For gas, the standard deviation for the recreated 625 was 708 kBtu while for the baseline model with the vallted lobby it was 1962 kBtu). The effects of geometry changes were disregarded for the purposes of this study, and as the effects of the recreated 625 file fall well under the geometry effects present in the baseline model, it is acceptable for inclusion in the analysis of participant decisions.



Figure D.1: Recreated and original predictions for participant 625's model. Both versions of the baseline model are included for comparison.
Appendix E

Tables of Room-by-Room Participant Data

E.1 Lookup table of participant names for building rooms

	019	027	379	437	625	634
C100	Lobby reception	G.C5	AC-C1 (1) Spc (G.N9)	"EL1 West Perim Spc (G.W4)"	Lobby	lobby and reception
C101	C101 Office	G.C1	AC-C4 Spc (G.WNW1)	"EL1 West Perim Spc (G.W4)"	Office 101	office
C102	Lobby reception	G.C5	AC-C1 (1) Spc (G.N9)	"EL1 Core Spc (G.C5)"	Reception	lobby and reception
				"EL1 South Perim Spc (G.S1)"		
C103	c103 record stg	G.C1	AC-C4 Spc (G.WNW1)	/"EL1 West Perim Spc (G.W4)"	Record storage	record storage
C104	c104 nurse lav	G.C1	AC-C4 Spc (G.WNW1)	"EL1 South Perim Spc (G.S1)"	Toilet	toilet
C105	c105 nurse	G.C1	AC-C4 Spc (G.WNW1)	"EL1 South Perim Spc (G.S1)"	Nurse	nurse
C106	c106 elec	G.C2	SAC-C2 (G.W2)	"EL1 South Perim Spc (G.S1)"	Data/Elc	data and elec
C107	c107 data	G.C3	SAC-C1 Spc (G.C3)	"EL1 South Perim Spc (G.S1)"	Data/Elc	data and elec
				"EL1 South Perim Spc (G.S1)"		
C108	c108 staff lounge	G.C4	AC-C2 Spc (G.SW4)	/"EL1 East Perim Spc (G.E2)"	Staff Lounge	staff lounge
C109	c108 staff lounge	G.C4	AC-C2 Spc (G.SW4)	"EL2 Spc (G.1)"	Workroom	workroom
C110		G.C5	Storage (G.S5)	"EL1 East Perim Spc (G.E2)"	Custodial	custodian
C111	c111 custodian	G.C5	EF C1 C2 C3 Spc (G.S6)	"EL1 East Perim Spc (G.E2)"	Custodial	custodian
C112	c113 main lavs	G.C5	EF C1 C2 C3 Spc (G.S6)	"EL1 East Perim Spc (G.E2)"	M/F Restrooms	toilets
C113	c113 main lavs	G.C5	EF C1 C2 C3 Spc (G.S6)	"EL1 Core Spc (G.C5)"	M/F Restrooms	toilets
C114	c114 multi use office	G.C7	AC C3 (2) Spc (G.E8)	"EL1 North Perim Spc (G.N3)"	Multiuse office	multi use office
C115	c115 foyer	G.C5	AC-C1 (2) Spc (G.E10)	"EL1 North Perim Spc (G.N3)"	Foyer*	lobby and reception
C116	c116 principal	G.C6	AC C3 (1) Spc (G.ENE7)	"EL1 North Perim Spc (G.N3)"	Principal	principle office
				"EL1 North Perim Spc (G.N3)"		
C117	c117 conference	G.C6	AC C3 (1) Spc (G.ENE7)	/"EL1 West Perim Spc (G.W4)"	Conf RM 117	conference
C118	Lobby reception	G.C5	AC-C1 (1) Spc (G.N9)	"EL1 Core Spc (G.C5)"	Reception*	lobby and reception

	718	730	731	834	
C100	EL3 Spc (G.1)	North Perim Spc (G.N4)	LOBBY	North Perim ML Spc (ML.N1)	
C101	EL1 North Perim Spc (G.N1)	NNW Perim Spc (G.NNW1)	OFFICE	WNW Perim Spc (G.WNW3)	
C102	EL3 Spc (G.1)	North Perim Spc (G.N4)	RECEPTION	North Perim ML Spc (ML.N1)	
C103	EL1 South Perim Spc (G.S2)	West Perim Spc (G.W6)	RECORD STORAGE	WNW Perim Spc (G.WNW3)	
C104	EL1 South Perim Spc (G.S2)	West Perim Spc (G.W6)	RESTROOM	WNW Perim Spc (G.WNW3)	
C105	EL1 South Perim Spc (G.S2)	West Perim Spc (G.W6)	NURSE	WNW Perim Spc (G.WNW3)	
C106	EL2 NW Perim Spc (G.NW1)	West Perim Spc (G.W6)	ELECTRICAL	West Perim Spc (G.W4)	
C107	EL2 NE Perim Spc (G.NE2)	West Perim Spc (G.W6)	DATA ROOM	West Perim Spc (G.W4)	
C108	EL2 West Perim Spc (G.W3)	WSW Perim Spc (G.WSW2)	STAFF LOUNGE	SSW Perim Spc (G.SSW2)	
C109	EL2 South Perim Spc (G.S4)	South Perim Spc (G.S8)	WORKROOM	SSW Perim Spc (G.SSW2)	
C110	EL2 North Perim Spc (G.N9)	South Perim Spc (G.S9)	RISER	SSW Perim Spc (G.SSW2)	
C111	EL2 WSW Perim Spc (G.WSW8)	Core Spc (G.C10)	CUSTODIAN	SSW Perim Spc (G.SSW2)	
C112	EL2 North Perim Spc (G.N9)	South Perim Spc (G.S9)	RESTROOMS	SSW Perim Spc (G.SSW2)	
C113	EL2 North Perim Spc (G.N9)	South Perim Spc (G.S9)	RESTROOMS	SSW Perim Spc (G.SSW2)	
C114	EL2 East Perim Spc (G.E5)	ESE Perim Spc (G.ESE7)	MULTI-USE OFFICE	East Perim Spc (G.E6)	
C115	EL2 WSW Perim Spc (G.WSW8)	Core Spc (G.C10)	FOYER	East Perim Spc (G.E7)	
C116	EL2 ESE Perim Spc (G.ESE6)	East Perim Spc (G.E3)	PRINCIPAL	ENE Perim Spc (G.ENE5)	
C117	EL2 North Perim Spc (G.N7)	NE Perim Spc (G.NE5)	Conference	ENE Perim Spc (G.ENE5)	
C118	EL3 Spc (G.1)	North Perim Spc (G.N4)	RECEPTION	North Perim ML Spc (ML.N1)	
	845	913			
C100	EL1 North Perim Spc (G.N3)	Lobby C100 (G.N13)	Lobby C100 (G.C1	4)	
C101	EL1 NW Perim Spc (G.NW7)	Office C101 (G.N17)	Office C101 (G.W.	18) Office C101 (G.C19)	
C102	EL1 Core Spc (G.C10)	Reception (G.C15)			
C103	EL1 Core Spc (G.C8)	Record Storage (G.C20)			
C104	EL1 WNW Perim Spc (G.WNW6)	Toilet (G.WNW21)			
C105	EL1 West Perim Spc (G.W9)	Nurse (G.W22)	Nurse (G.C23)		
C106	EL1 West Perim Spc (G.W5)	Elec (G.W25)			
C107	EL1 Core Spc (G.C11)	Data (G.C24)			
C109	EL1 SW/ Darim Spc (C SW/1E)	Staff Loungo (C. C26)	Staff Loungo (C.)	(27)	
C108	ELI SW Perini Spc (G.SW13)	Markroom (C E28)	Markroom (C 520	(27) Workroom (C C20)	Workroom (C W21)
C109	EL2 North Perim Spc (G.S12)	Picor (C S12)	WORKTOUTH (0.529	5) Workfoolli (d.c.so)	WORKIOOIII (G.WS1)
C110	EL1 South Perint Spc (G.S13)	Custodian C111 (C S10)			
C112	ELI ESE Perini Spc (G.ESEIZ)	Toilots (G C11)			
C112	EL1 Core Spc (G.C14)	Toilets (G C11)			
C114	LL1 COTE SPC (0.C14)		Multi uso Offico (°114 (G S7)	
C114	EL1 East Perim Snc (G E2)	Multi-lise ()ttice (11/1/1/- E6)			
0115	EL1 East Perim Spc (G.E2) EL1 ESE Perim Spc (G ESE12)	Multi-use Office C114 (G.E6) Fover C115 (G.F8)	Fover C115 (G C9))	
C115 C116	EL1 East Perim Spc (G.E2) EL1 ESE Perim Spc (G.ESE12) EL1 ESE Perim Spc (G.ESE1)	Foyer C115 (G.E8) Principal C116 (G.F4)	Foyer C115 (G.C9) Principal C116 (G	(5) (5)	
C115 C116	EL1 East Perim Spc (G.E2) EL1 ESE Perim Spc (G.ESE12) EL1 ESE Perim Spc (G.ESE1)	Foyer C115 (G.E8) Principal C116 (G.E4)	Foyer C115 (G.C9) Principal C116 (G.) C5)	
C115 C116 C117	EL1 East Perim Spc (G.E2) EL1 ESE Perim Spc (G.ESE12) EL1 ESE Perim Spc (G.ESE1) EL1 NE Perim Spc (G.NE4)	Multi-use Office C114 (G.E6) Foyer C115 (G.E8) Principal C116 (G.E4) Conference C117 (G.N1)	Foyer C115 (G.C9) Principal C116 (G.	(G.E2) Conference C117 (G.C3	1
C115 C116 C117 C118	EL1 East Perim Spc (G.E2) EL1 ESE Perim Spc (G.ESE12) EL1 ESE Perim Spc (G.ESE1) EL1 NE Perim Spc (G.NE4) EL1 Core Spc (G.C10)	Multi-use Office C114 (G.E6) Foyer C115 (G.E8) Principal C116 (G.E4) Conference C117 (G.N1) Reception (G.C16)	Foyer C115 (G.C9) Principal C116 (G. Conference C117	(G.E2) Conference C117 (G.C3)	1

E.2 Room-by-room space data from participant files

Below are the room-by-room space data for participant files. Note that schedules are excluded because they are incorporated into the template file. Also note that the room labeled C118 is the separate area next to C102 in the floor plan that otherwise has no labeling.

E.2.1 Area per person

Units are square feet per person.

	019	027	379	437	625	634	718	730	731	834	845	913
C100	80	138	142	200	200	200	100	99	193	99	100	225
C101	225	138	142	200	200	100	200	99	193	99	150	225
C102	80	138	142	200	200	200	100	99	193	99	100	118
C103	80	138	142	222	200	1000	200	99	193	99	500	118
C104	225	138	142	223	200	183	200	99	193	99	500	225
C105	225	138	142	223	200	100	200	99	193	99	150	225
C106	225	2000	142	223	200	100	2000	99	193	99	2000	225
C107	80	2000	150	223	200	100	2000	99	193	99	2000	118
C108	225	138	142	223	200	100	100	99	193	99	50	225
C109	225	138	142	200	200	100	200	99	193	99	150	225
C110		138	142	223	200	1000	300	99	193	99	2000	225
C111	225	138	142	223	200	1000	182	150	193	99	1000	225
C112	225	138	142	211	200	1000	300	99	193	99	500	118
C114	225	138	142	200	200	100	200	99	193	99	150	225
C115	225	138	142	200	200	200	182	150	193	99	1000	225
C116	225	138	142	200	200	183	200	99	193	99	150	225
C117	80	138	142	200	200	100	50	99	200	99	26	225
C118	80	138	142	200	200	200	100	99	193	99	100	118

E.2.2 Equipment power

Units are watts per square foot.

	019	027	379	437	625	634	718	730	731	834	845	913
C100	0.6	0.5	1.2	0.8	1.0	0.6	0.3	1.1	1.0	0.8	0.5	1.5
C101	1.5	0.5	1.2	0.8	1.5	0.8	0.8	1.1	2.0	0.8	0.8	1.5
C102	0.6	0.5	1.2	0.8	1.0	0.6	0.3	1.1	1.0	0.8	0.5	1.1
C103	0.6	0.5	1.2	0.9	0.3	0.1	1.0	1.1	1.0	0.8		1.1
C104	1.5	0.5	1.2	1.1	0.3	0.1	1.0	1.1	1.0	0.8	0.0	1.5
C105	1.5	0.5	1.2	1.1	1.5	0.8	1.0	1.1	2.0	0.8	0.8	1.5
C106	1.5	0.1	1.2	1.1	3.0	0.1	0.1	1.1	11.0	0.8	0.0	1.5
C107	0.6	0.1	0.2	1.1	3.0	0.1	0.1	1.1	4.0	0.8	3.0	1.1
C108	1.5	0.5	1.2	1.1	1.5	0.8	0.1	1.1	2.5	0.8	0.8	1.5
C109	1.5	0.5	1.2	1.0	1.5	0.7	0.8	1.1	3.0	0.8	0.8	1.5
C110		0.5	1.2	1.1	0.5	0.1	0.1	1.1	1.0	0.8	0.0	0.0
C111	1.5	0.5	1.2	1.1	0.5	0.1	0.1	0.2	1.0	0.8		1.5
C112	1.5	0.5	1.2	0.9	0.3	0.1	0.1	1.1	1.0	0.8	0.0	1.1
C114	1.5	0.5	1.2	0.8	1.5	0.8	0.8	1.1	2.5	0.8	0.8	1.5
C115	1.5	0.5	1.2	0.8	0.5	0.6	0.1	0.2	1.0	0.8		1.5
C116	1.5	0.5	1.2	0.8	1.0	0.8	0.8	1.1	2.0	0.8	0.8	1.5
C117	0.6	0.5	1.2	0.8	0.6	0.1	0.1	1.1	2.0	0.8	1.0	1.5
C118	0.6	0.5	1.2	0.8	1.0	0.6	0.3	1.1	1.0	0.8	0.5	1.1

E.2.3 Infiltration per square foot

Units are cfm per square foot (floor area).

	019	027	379	437	625	634	718	730	731	834	845	913
C100	0.001	0.001	0.067	0.033	0.034	0.010	0.112	0.009	0.035	0.009	0.057	0.036
C101	0.032	0.001	0.067	0.033	0.061	0.057	0.087	0.056	0.062	0.039	0.101	0.064
C102	0.001	0.001	0.067	0.001	0.001	0.010	0.112	0.009	0.001	0.009	0.001	0.001
C103	0.001	0.001	0.067	0.031	0.001	0.001	0.064	0.021	0.001	0.039	0.001	0.001
C104	0.083	0.001	0.067	0.030	0.060	0.060	0.064	0.021	0.060	0.039	0.115	0.062
C105	0.024	0.001	0.067	0.030	0.022	0.020	0.064	0.021	0.022	0.039	0.036	0.023
C106	0.054	0.001	0.067	0.030	0.022	0.020	0.077	0.021	0.050	0.024	0.084	0.056
C107	0.001	0.001	0.027	0.030	0.022	0.020	0.071	0.021	0.001	0.024	0.001	0.001
C108	0.032	0.001	0.067	0.031	0.019	0.019	0.025	0.018	0.020	0.035	0.050	0.017
C109	0.032	0.001	0.067	0.081	0.062	0.038	0.062	0.057	0.063	0.035	0.108	0.064
C110		0.001	0.067	0.033	0.056	0.054	0.032	0.016	0.058	0.035	0.097	0.059
C111	0.042	0.001	0.067	0.033	0.056	0.054	0.043	0.001	0.058	0.035	0.034	0.059
C112	0.018	0.001	0.067	0.017	0.001	0.001	0.032	0.016	0.001	0.035	0.001	0.001
C114	0.078	0.001	0.067	0.030	0.065	0.061	0.068	0.040	0.067	0.072	0.110	0.070
C115	0.017	0.001	0.067	0.030	0.022	0.010	0.043	0.001	0.015	0.018	0.034	0.017
C116	0.016	0.001	0.067	0.030	0.054	0.042	0.057	0.026	0.055	0.058	0.093	0.050
C117	0.001	0.001	0.067	0.031	0.051	0.023	0.078	0.045	0.053	0.058	0.086	0.055
C118	0.001	0.001	0.067	0.001	0.001	0.010	0.112	0.009	0.001	0.009	0.001	0.001

E.2.4 Lighting power

Units are watts per square foot.

	019	027	379	437	625	634	718	730	731	834	845	913
C100	1.63	1.97	1.19	1.00	1.00	1.52	1.52	1.19	1.50	1.12	0.00	0.70
C101	1.11	1.97	1.19	1.00	1.00	1.50	1.10	1.19	0.95	1.12	0.96	1.00
C102	1.63	1.97	1.19	1.00	1.50	1.52	1.52	1.19	1.75	1.12	0.00	0.70
C103	0.95	1.97	1.19	1.00	1.00	0.77	1.70	1.19	0.97	1.12	0.84	1.00
C104	0.63	1.97	1.19	1.00	0.50	0.77	1.70	1.19	0.47	1.12	0.59	1.00
C105	0.58	1.97	1.19	1.00	1.00	1.50	1.70	1.19	0.99	1.12	1.01	1.00
C106	0.86	0.81	1.19	1.00	1.00	0.81	0.81	1.19	0.89	1.12	8.48	0.60
C107	1.33	0.81	0.60	1.00	1.00	0.81	0.81	1.19	1.33	1.12	1.25	0.60
C108	0.95	1.97	1.19	1.00	1.00	1.50	1.50	1.19	1.01	1.12	1.07	1.10
C109	0.95	1.97	1.19	1.00	1.00	1.50	1.10	1.19	1.32	1.12	1.32	1.00
C110		1.97	1.19	1.00	1.00	0.81	0.77	1.19	0.91	1.12	0.87	0.00
C111	0.64	1.97	1.19	1.00	1.00	0.81	1.05	0.60	0.67	1.12	0.84	1.00
C112	0.48	1.97	1.19	1.00	0.50	0.77	0.77	1.19	0.53	1.12	0.50	1.00
C114	0.72	1.97	0.96	1.00	1.00	1.50	1.10	1.19	1.01	1.12	1.00	1.00
C115	0.87	1.97	1.19	1.00	1.00	1.52	1.05	0.60	0.44	1.12	0.84	0.84
C116	0.69	1.97	1.04	1.00	1.00	1.50	1.10	1.19	1.01	1.12	1.04	1.00
C117	0.77	1.97	1.04	1.00	1.00	0.92	0.92	1.19	1.09	1.12	1.09	1.00
C118	1.63	1.97	1.19	1.00	1.50	1.52	1.52	1.19	1.75	1.12	0.00	0.70

E.2.5 Latent heat gain of people

Units Btu/hour per person.

	019	027	379	437	625	634	718	730	731	834	845	913
C100	207	250	203	200	200	201	250	196	202	201	250	200
C101	200	250	203	200	200	201	200	196	202	201	200	200
C102	207	250	203	200	200	201	250	196	202	201	250	205
C103	207	250	203	206	200	250	250	196	202	201	475	205
C104	200	250	203	211	200	201	250	196	202	201	250	200
C105	200	250	203	211	200	201	250	196	202	201	200	200
C106	200	250	203	211	200	201	250	196	202	201	250	200
C107	207	250	250	211	200	201	250	196	202	201	250	205
C108	200	250	203	211	200	201	275	196	202	201	275	200
C109	200	250	203	250	200	201	200	196	202	201	200	200
C110		250	203	211	200	201	250	196	202	201	250	200
C111	200	250	203	211	200	201	250	250	202	201	250	200
C112	200	250	203	206	200	250	250	196	202	201	250	205
C114	200	250	203	200	200	201	200	196	202	201	200	200
C115	200	250	203	200	200	201	250	250	202	201	250	200
C116	200	250	203	200	200	201	200	196	202	201	200	200
C117	207	250	203	200	200	201	155	196	202	201	155	200
C118	207	250	203	200	200	201	250	196	202	201	250	205

E.2.6 Sensible heat gain of people

Units Btu/hour per person.

	019	027	379	437	625	634	718	730	731	834	845	913
C100	248	250	249	250	250	249	250	248	249	248	250	250
C101	250	250	249	250	250	249	250	248	249	248	250	250
C102	248	250	249	250	250	249	250	248	249	248	250	248
C103	248	250	249	250	250	250	250	248	249	248	275	248
C104	250	250	249	250	250	249	250	248	249	248	250	250
C105	250	250	249	250	250	249	250	248	249	248	250	250
C106	250	250	249	250	250	249	250	248	249	248	250	250
C107	248	250	250	250	250	249	250	248	249	248	250	248
C108	250	250	249	250	250	249	275	248	249	248	275	250
C109	250	250	249	250	250	249	250	248	249	248	250	250
C110		250	249	250	250	249	250	248	249	248	250	250
C111	250	250	249	250	250	249	250	250	249	248	250	250
C112	250	250	249	250	250	250	250	248	249	248	250	248
C114	250	250	249	250	250	249	250	248	249	248	250	250
C115	250	250	249	250	250	249	250	250	249	248	250	250
C116	250	250	249	250	250	249	250	248	249	248	250	250
C117	248	250	249	250	250	249	245	248	249	248	245	250
C118	248	250	249	250	250	249	250	248	249	248	250	248

E.2.7 Zone type

"CON" is "conditioned" and "UNC" denotes "unconditioned".

	019	027	379	437	625	634	718	730	731	834	845	913
C100	CON	UNC	CON	CON								
C101	CON											
C102	CON	UNC	CON	CON								
C103	CON											
C104	CON											
C105	CON											
C106	CON											
C107	CON											
C108	CON											
C109	CON											
C110		CON	UNC	CON	UNC							
C111	CON											
C112	CON											
C114	CON											
C115	CON											
C116	CON											
C117	CON											
C118	CON	UNC	CON	CON								

Appendix F

Categorized Participant Decisions

F.1 Categorization of main decisions

	019	027	379	437	625	634	718	730	731	834	845	913
SiteData	а	b	b	b	b	b	b	b	b	а	b	а
EWall	b	С	а	d	е	h	а	а	f	а	b	g
IWall	а	а	а	b	а	b	а	а	а	а	а	С
ExtLtg	а	а	а	а	b	а	а	а	а	а	С	а
DHWeqp	а	b	С	d	е	f	g	h	i	j	k	I
DHWloop	а	b	С	d	е	f	g	h	i	j	k	I
ZoneType	b	С	b	С	С	С	С	С	С	а	С	b
PeopleSch	b	а	b	С	а	а	а	b	а	b	а	b
LgtSch	С	а	С	d	а	а	а	С	а	b	а	С
EqpSch	d	е	b	f	g	С	h	b	i	а	С	а
InfSch	b	С	b	d	а	а	а	b	а	b	а	b
InfFlowArea	b	С	d	e	а	f	g	h	а	i	j	а
PeopleHGLat	b	С	d	е	а	f	g	h	i	j	k	I
LtgWArea	а	b	С	d	е	f	g	h	i	j	k	I
EqpWArea	а	b	С	d	е	f	g	h	i	j	k	I
Occupancy	а	b	С	d	е	f	g	h	i	j	k	I
Geometry	а	b	С	d	е	f	g	h	i	j	k	I
Windows	а	b	С	d	е	f	g	h	i	j	k	I
HVAC	а	b	С	d	е	f	g	h	i	j	k	I

SiteData

			DRYBULB-HIGH = 95	
			DRYBULB-RANGE = 22	
			DRYBULB-HIGH = 28	
	а		ALTITUDE = 70	
			DRYBULB-HIGH = 94	
			DRYBUIB-RANGE = 26	
	h			
Ewall	U			
Ewall		roughnoss		
		roughness	("Dhoud E/Sin (DWOA)"" "Incul Ed 2/Ain (INE2)"	
		0	(PIYWU 5/6111 (PWU4) , 1115UI BU 5/4111 (11102) ,	
	а	0		
			("Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",	
	b	0	"EL1 EWall Cons Mat 2 (8.1)", "GypBd 1/2in (GP01)")	
			("Stucco 1in (SCO1)", "Insul Bd 3/4in (IN62)",	
	С	1	"EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)")	
			("Stucco 1in (SCO1)", "Insul Bd 3/4in (IN62)",	
	d	1	"EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)")	
			("Plywd 5/8in (PW04)", "Insul Bd 3/8in (IN63)",	
	е	0	"EL1 EWall Cons Mat 2 (6)", "GypBd 1/2in (GP01)")	
			("Plywd 5/8in (PW04)", "Bldg Paper Felt (BP01)",	
	f	0	"EL1 EWall Cons Mat 2 (6)", "GypBd 1/2in (GP01)")	
			("Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",	
	g	0	"EWall Cons Mat 2 (15.05)", "GypBd 1/2in (GP01)")	
	0		("Stucco 1in (SCO1)", "Insul Bd 3/4in (IN62)",	
	h	1	"EL1 EWall Cons Mat 2 (8.1)". "GvpBd 1/2in (GP01)")	
IWall				
		Type		
	а	U-VALUE		27
	ŭ	O WILDE	("GynBd 1/2in (GP01)" "FL1 IWall Cons Mat 2 (0 91)"	2.7
	h		"GynBd 1/2in (GP01)")	
	D	LATENS	("GypBd 1/2in (GD01)", "IWall Cope Mat 2 (4 E)"	
			(Gypbu 1/2in (GP01), Iwall Constract 2 (4.5),	
	ι	LATENS	бурви 1/211 (бРО1)	
ExtLtg				
	a	not presen		
	b	EXTERIOR-	POWER = 0.31405	
	С	EXTERIOR-	POWER = 0.184	
DHWeqp				
	a to l	unique for	each	
DHWloop				
	a to l	unique for	each	
ZoneType				
	а	too many i	unconditioned zones	
	b	appropriat	ely marked unconditioned zone	
	С	all condition	oned zones	

PeopleSch

	а	longer default schedule(Detailed Design mode)
	b	tighter default schedule (Schematic Design mode)
	С	customized schedule
LgtSch		
	а	default longer schedule (Detailed Design mode)
	b	default tighter schedule (Schematic Design mode)
	С	dual default tighter schedule (Schematic Design mode)
	d	customized schedule
EqpSch		
	а	similar schedules
	b	similar schedules
	С	similar schedules
	d to j	unique for each
InfSch		
	а	default longer schedule (Detailed Design mode)
	b	default tighter schedule (Schematic Design mode)
	С	custom schedule
	d	custom schedule
InfFlowAre	a	
	а	similar flow rates
	b to j	different areas
PeopleHGS	ens and Pe	opleHGLat
	a to l	unique for each
LtgWArea		
	a to I	unique for each
EqpWArea		
	a to I	unique for each
Occupancy		
	a to I	unique for each
Geometry		
	a to I	unique for each
Windows		
	a to l	unique for each
HVAC		
	a to l	unique for each

F.2 Categorization of HVAC decisions

	019	027	379	437	625	634	718	730	731	834	845	913
Fans	b	b	b	а	b	а	b	b	b	b	b	b
OAFlowPer	а	f	g	h	а	е	d	с	а	а	b	а
CoolHeatCap	а	а	а	С	а	С	а	b	С	а	а	С
CoolingEIR	b	С	d	e	f	а	g	h	i	а	j	а
CoolingSHCap	а	b	а	b	а	b	а	b	b	а	а	b
EconoLockout	а	b	а	а	а	а	а	b	а	а	С	а
HeatSource	а	а	b	а	b	а	а	а	а	b	а	а
OAControl	а	b	а	а	а	а	b	а	а	а	С	а
OASizingMethod	b	b	а	b	а	b	b	b	b	b	b	b
ReturnAirPath	с	b	С	С	а	С	С	С	С	С	С	С
SupplyFlow	а	а	а	С	а	С	а	С	С	С	а	С
SupplyStatic	е	f	а	b	g	С	h	а	а	а	d	а
Туре	а	а	а	а	b	С	b	а	b	а	а	b
AllOthers	а	b	С	d	е	f	g	h	i	j	k	Ι

MinFlowRatio, FanControl, and FAN-EIR-FPLR

	а	present
	b	absent
OAFlowPer	r	
	а	between 20 - 25
	b	wide range : 15-75
	с	one 7.5 but otherwise 23.8
	d	wide range: 15-100
	е	two 50 but otherwise 22.16
	f	32 to thousands
	g	mostly 2.09 but one 74.1
	h	20 and 28.35
CoolingCap	acity and H	leatingCapacity
0.	a	present and fairly consistent inputs
	b	present but different inputs
	С	absent
CoolingEIR		
U	а	has high EIR values
	b to k	lower (varying) EIR values
CoolingSHo	ap	
	a	input (fairly consistent) values
	b	no input
EconoLock	out	·
	а	YES
	b	NO
	С	both
HeatSource	2	
	а	FURNACE
	b	both FURNACE and NONE
OAControl		
	а	OA-TEMP
	b	both OA-TEMP and FIXED
	с	no input
OASizingM	ethod	
	а	Sum of zone OA
	b	nothing
ReturnAirP	ath	
	а	DUCT
	b	PLENUM-ZONES
	с	nothing (default)
SupplyFlow	,	-
	а	input (fairly consistent) values
	с	no input
SupplyStat	ic	
	а	all 0.125
	b	all 1.0

c all 2.5

	d	no input		
	e to i	different in	puts	
Туре				
	С	PMZS		
	а	PSZ		
	b	both PSZ ar	nd PMZS	
All other e	ffects are fr	om combin	ation of ab	ove effects or the ones below
379 only	natural ver	ntilation sch	edule	TYPE (of system) = FNSYS1
625 only	Exhaust			
634 only	HSUPPLY-E	FF	min outsid	e air
718 only	Min fan rat	tio	min outsid	e air
731 only	OA Change	S		
845 only	Supply-KW	/Flow		

913 only TYPE = SUM (exhaust only system)

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Appendix G

Record of Monte Carlo Sampling

G.1 Monte Carlo sampling results

Below is a record of the participant decisiosn chosen for each category of decisions for each run of Monte Carlo sampling.

834 718 913 379 379 27 437 730 634 437 437 845 731 19 19 913 19 730 379 625 27 32765 524 913 731 379 845 634 634 379 625 731 19 625 19 19 27 625 625 437 19 625 834 437 25142 36 379 730 437 437 437 19 379 731 437 625 379 379 19 625 834 845 379 731 379 379 437 15588 44 913 634 19 731 913 634 27 27 718 913 19 718 625 718 731 731 19 19 625 913 27 35427 497 731 625 437 718 718 834 437 913 625 27 379 634 437 437 19 634 379 19 379 634 731 36213 202 834 845 845 437 379 379 19 718 834 913 625 625 834 27 27 625 913 19 19 27 27 35328 500 845 625 834 913 625 845 19 437 834 379 634 845 718 731 845 731 625 730 718 379 834 25534 31 730 19 625 731 19 731 625 845 19 19 27 718 437 731 437 913 625 27 634 19 625 31464 324 730 913 834 731 834 625 27 731 437 731 27 19 730 913 379 625 437 437 834 437 379 26386 47 634 731 730 913 845 845 625 634 379 437 834 913 718 834 718 845 730 625 730 913 379 24035 48 913 718 19 718 19 845 718 845 731 731 27 379 19 19 379 731 718 437 625 437 913 23048 191 731 625 834 913 730 913 625 731 19 731 730 625 379 634 718 731 834 379 27 730 834 19702 35 845 437 19 845 845 634 718 379 634 634 437 625 718 731 718 730 730 437 379 379 625 33832 319 379 625 730 913 718 834 379 834 625 718 731 634 731 834 634 19 834 845 834 27 913 24854 155 730 731 634 731 625 437 731 27 437 19 625 379 730 718 913 718 379 634 437 718 730 29688 13 437 730 437 625 845 718 731 625 834 634 834 834 730 437 27 731 437 19 19 27 19 24198 16

G.2 Categorized Monte Carlo sampling

Below is a record of the categories of modeler decisions (as shown in Appendix F) for the Monte Carlo sampling listed in Appendix G.1.

SiteData	EWall	IWall	ExtLtg	DHWeqp	DHWloop	ZoneType	PeopleSch	LgtSch	EqpSch	InfSch	InfFlowArea	PeopleHGLat	PeopleHGSens	LtgWArea	EqpWArea	Occupancy	Geometry	Windows	HVAC
а	а	а	а	С	с	С	b	а	f	С	h	а	h	а	С	L	i	j	f
b	f	а	а	b	f	с	а	а	d	а	b	L	b	e	L	j	а	i	а
b	d	а	b	g	i	С	а	С	d	b	С	h	с	d	а	k	е	f	С
а	а	а	а	i	а	b	b	с	а	с	а	g	f	d	с	а	е	g	j
а	b	b	а	g	k	с	с	а	i	а	С	L	g	d	L	b	f	L	f
b	f	а	а	d	L	с	b	а	g	b	а	с	h	i	g	f	i	j	L
b	а	С	а	С	h	а	b	С	е	b	а	а	L	j	k	j	b	k	f
b	f	а	а	h	С	b	С	С	g	b	h	а	е	i	i	е	L	i	а
а	b	С	а	е	h	С	b	а	d	b	а	b	g	h	С	g	b	b	j
b	а	С	а	I	b	b	b	а	е	а	f	k	е	b	d	е	k	а	k
b	b	b	а	С	k	С	b	а	b	а	i	а	е	j	f	а	Ι	d	d
а	а	а	а	g	j	b	а	а	С	а	d	f	i	i	g	k	b	а	k
b	а	а	а	j	i	С	а	b	b	b	h	d	b	а	k	а	i	g	d
b	а	С	а	С	а	а	а	С	d	b	а	j	g	j	k	f	k	g	k
b	С	а	а	f	g	С	С	С	а	а	а	b	i	d	b	h	С	е	k
а	g	а	а	i	i	а	b	а	b	С	b	g	b	g	d	i	j	h	b
а	е	а	а	d	С	С	а	С	b	а	j	f	j	С	b	j	d	h	j
b	С	а	а	I	k	С	b	С	b	b	а	I	I	а	g	b	h	i	h
а	g	С	а	а	j	С	с	а	а	b	е	g	d	а	i	I	I	h	b
b	е	а	а	b	b	С	b	а	h	d	i	а	С	k	а	h	i	j	f
b	С	С	а	k	k	С	b	а	b	а	С	i	i	d	g	g	е	h	L
b	С	а	а	d	g	С	b	а	g	d	f	i	I	С	f	е	d	d	е
b	f	b	а	d	g	С	а	а	b	а	b	k	С	е	k	а	j	f	b
b	е	b	а	g	j	С	b	С	f	d	f	i	b	d	h	I	k	С	h
а	е	b	а	е	j	С	а	С	а	а	а	b	h	i	I	f	j	е	е
а	а	b	b	е	е	С	b	а	b	b	h	i	а	е	d	С	k	k	е
b	b	а	а	а	С	С	b	а	а	а	а	е	d	d	f	е	С	е	е
а	а	а	а	d	а	С	b	b	i	b	h	е	i	j	I	h	i	С	С
а	f	b	b	g	g	С	а	а	а	b	i	b	I	h	d	I	b	а	b
b	b	а	b	d	а	b	а	b	i	а	d	е	k	i	f	j	е	С	j
b	е	а	b	а	j	b	b	b	е	b	е	f	j	d	g	i	f	i	i
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а	а	С	а	g	i	b	b	а	а	d	b	а	j	е	а	Ι	i	k	j
b	b	а	а	d	d	С	b	С	i	а	С	e	b	Ι	k	h	f	k	а
a	а	а	а	j	k	С	С	d	а	b	i	С	d	i	а	b	j	а	k
b	а	а	С	с	i	а	b	а	b	a	а	k	g	а	е	h	I	j	g
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b	b	а	а	k	е	с	b	а	f	а	а	h	T	d	f	е	d	f	b
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b	а	а	а	е	f	С	а	а	а	С	g	f	i	g	b	k	f	h	i
а	f	b	а	j	d	С	а	а	b	а	е	С	С	С	f	j	d	f	е
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a	e	а	а	h	b	a	b	а	С	a	b	e	i	I	g	k	I	i	I
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b	а	а	а	d	b	С	а	С	С	b	g	d	b	а	h	i	а	Ι	а
b	С	а	а	С	f	С	b	а	b	а	j	i	Ι	Ι	i	е	g	b	i
а	h	С	а	h	j	С	а	С	а	b	а	i	f	а	j	g	h	f	k
а	а	с	а	h	е	с	а	а	f	а	а	Ι	f	b	k	g	е	f	b
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b	g	а	а	i	e	b	а	d	h	а	f	Ι	g	с	k	b	i	i	k
b	a	а	а	e	k	b	b	а	с	b	b	b	b	h	e	j	e	i	h
b	е	b	а	i	с	b	а	с	с	а	f	i	i	e	h	d	Ι	с	g
b	а	а	а	k	а	с	а	с	g	b	d	а	с	g	i	g	i	e	e
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b	e	а	а	i	h	с	с	а	а	а	i	d	f	f	i	d	d	d	i
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b	g	а	а	, a	k	b	а	С	f	а	i	а	, h	g	С	, h	f	g	e
a	c	a	а	Ĩ	i	с	a	а	g	а	, a	h	i	I	i	с	c	c	d
b	a	а	а	e	i	b	c	d	b	b	a	i	, k	e	b	b	c	b	i
b	a	a	а	i	i	а	b	c	i	с	b	, k	f	g	i	f	Ĩ	f	i.
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b	с	a	а	c	e	с	b	c	g	b	i	i	b	k	h	i	i	c	h
b	b	a	a	i	k	a	b	a	b	a	d	h	f	f	i	k	d	b	k
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b	e	с	а	d	f	с	а	а	g	b	а	е	k	Ι	b	Ι	Ι	g	i
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b	b	а	а	g	с	с	b	а	f	b	g	f	e	Ι	е	f	f	d	а
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b	а	а	а	f	i	С	b	а	b	а	b	h	h	i	а	b	h	е	h
а	g	а	а	Ι	k	С	а	С	i	а	g	j	i	а	d	j	d	Ι	i
b	d	а	а	Ι	с	с	b	с	b	b	h	i	с	b	d	а	d	d	d
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b	e	а	а	b	k	с	а	с	d	а	с	е	d	g	с	с	i	b	с
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b	е	а	а	h	а	С	b	С	С	b	i	j	k	i	j	g	b	b	j
b	b	а	а	Ι	f	b	b	С	f	а	f	С	d	i	T	d	С	b	d
а	а	а	b	f	g	С	а	а	b	b	а	е	i	h	h	i	b	f	i
h	σ	h	а	Ь	h	c	а	а	Ь	h	h	h	ć	а	f	h	h	Т	k
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D	a	С	а	e	g	D	a	а	T	a	1	1	1	С	D	T	Т	1	a
b	а	а	а	е	k	С	b	С	С	b	С	а	i	С	d	g	С	j	k
b	g	а	а	h	d	С	а	С	С	b	j	j	g	Ι	С	f	k	С	е
b	а	а	а	i	h	С	b	а	b	а	С	а	i	b	d	i	k	i	i
b	а	а	С	b	h	с	c	c	b	b	а	e	Ì	T	ø	c C	σ	Ì	i
ñ	f	2	h	ĩ	~	ç	° 2	ç	ĥ	ĥ	~ ~	۲ د	h		2	ç	0	f	,
a L		a L	0	1	g	L L	a	L J	D L	D L	e	r r	D L	g	a L	L L		ן ר	e r
D	a	D	а	D	e	D	С	a	D	D	g	T	D	T	n	D	e	a	T
b	f	а	а	h	g	С	b	С	С	d	а	I	С	а	j	i	i	f	b
b	b	а	а	а	е	b	а	а	а	а	f	а	Ι	k	d	b	k	g	i
b	h	а	а	b	с	b	b	с	f	а	i	e	а	с	а	i	b	k	i
а	d	с	а	с	с	b	а	а	b	а	i	с	T	d	е	h	g	g	h
h	h	2	2	ē	i	ç	2	2	~	h		h	·	h	k	h	ı I	i	k
U F	U a	a	a	e F	۱ ۲	L C	a k	a	a	U C	J	r L	ı c	U L	۲. ۱		ı F	J	r.
р	a	а	а	0	g	С	b	а	g	a	С	Ť	e	К	a	g	n	T	е
b	f	а	а	h	i	С	а	С	g	b	а	h	T	а	е	i	h	а	е

b	е	а	а	С	Ι	b	а	b	i	b	f	h	i	k	j	d	е	k	h
b	b	b	а	j	b	С	b	С	С	b	f	k	d	i	d	С	е	g	i
а	а	С	а	С	b	С	b	а	f	d	а	b	b	Т	а	h	С	е	b
а	f	а	С	f	f	b	а	а	d	а	b	С	а	е	d	а	е	j	d
b	а	b	а	d	а	b	а	d	g	b	b	а	j	k	С	i	С	С	d
а	h	а	а	Ι	f	С	а	а	а	b	а	g	i	i	а	а	е	L	b
b	е	b	а	g	j	С	b	а	е	b	е	е	b	f	С	а	С	f	i
а	b	а	а	С	С	b	а	b	а	а	i	С	С	е	Ι	а	а	b	b
b	е	а	а	е	k	b	С	b	b	а	g	i	k	i	е	h	g	С	j
b	b	а	а	а	i	С	а	С	d	С	е	i	е	Т	е	b	f	а	е
b	g	а	а	j	е	С	а	d	i	С	h	Ι	d	е	d	d	j	d	С
b	f	а	а	k	k	С	а	С	f	b	g	j	g	k	h	е	h	Ι	С
а	а	а	а	а	k	С	а	а	i	С	b	b	d	i	g	d	е	d	Τ
b	е	а	а	h	Ι	С	а	С	i	b	d	f	g	i	j	С	b	h	j
b	d	а	С	k	f	С	b	а	С	d	g	i	g	h	h	d	С	С	е
b	е	а	а	g	j	b	b	а	h	а	а	j	f	а	j	k	j	b	Ι
b	f	b	а	е	d	С	а	d	d	а	h	g	Ι	g	С	f	d	g	h
b	а	b	b	k	g	С	а	b	С	b	h	е	С	i	d	а	а	b	а

Appendix H

Template and Substitution Files

H.1 Template file

INPUT ..

\$ ------\$ Abort, Diagnostics \$ ------\$ ------\$ Global Parameters _____ \$ \$ ------\$ Title, Run Periods, Design Days, Holidays \$ -----TITLE LINE-1 = *single story* . . "Entire Year" = RUN-PERIOD-PD BEGIN-MONTH = 1

```
BEGIN-DAY = 1
BEGIN-YEAR = 2012
 END-MONTH
           = 12
 END-DAY = 31END-YEAR = 2012
  . .
"Cooling Design Day" = DESIGN-DAY
  TYPE = COOLING
tagaaa
  WETBULB-AT-HIGH = 68
 MONTH = 7
 NUMBER-OF-DAYS = 120
  . .
"Heating Design Day" = DESIGN-DAY
       = HEATING
 TYPE
tagaab
 . .
"Standard US Holidays" = HOLIDAYS
 LIBRARY-ENTRY "US"
  . .
$ -----
$
         Compliance Data
$ ------
$ ------
$
          Site and Building Data
$ ------
"Site Data" = SITE-PARAMETERS
tagaac
 . .
"Building Data" = BUILD-PARAMETERS
```

HOLIDAYS = "Standard US Holidays"

```
. .
$ -----
$
          Materials / Layers / Constructions
$ -----
"EL1 EWall Cons Mat 2 (8.6)" = MATERIAL
  TYPE = RESISTANCE
  RESISTANCE = 8.6
  . .
"EL1 EWall Cons Mat 2 (8.1)" = MATERIAL
  TYPE = RESISTANCE
  RESISTANCE = 8.1
  . .
"EL1 EWall Cons Mat 2 (6)" = MATERIAL
  TYPE = RESISTANCE
  RESISTANCE = 6
  . .
"EWall Cons Mat 2 (15.05)" = MATERIAL
  TYPE
              = RESISTANCE
  RESISTANCE = 15.05
"IWall Cons Mat 2 (4.5)" = MATERIAL
  TYPE = RESISTANCE
  RESISTANCE = 4.5
  . .
"EL1 Roof Cons Mat 4 (27.1)" = MATERIAL
  TYPE = RESISTANCE
  RESISTANCE = 27.1
  . .
"EL1 IWall Cons Mat 2 (0.91)" = MATERIAL
  TYPE = RESISTANCE
  RESISTANCE = 0.91
  . .
"EL1 UFMat (G.NE1.U2.M1)" = MATERIAL
              = RESISTANCE
  TYPE
  RESISTANCE = 2.69343
  . .
"EL1 UFMat (G.ESE2.U3.M1)" = MATERIAL
```

```
TYPE
                = RESISTANCE
  RESISTANCE = 2.37952
  . .
"EL1 UFMat (G.E3.U4.M1)" = MATERIAL
  TYPE
          = RESISTANCE
  RESISTANCE = 1.34578
  . .
"EL1 UFMat (G.S4.U5.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 2.14455
  . .
"EL1 UFMat (G.C6.U7.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 100
  . .
"EL1 UFMat (G.S7.U8.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 1.61498
  . .
"EL1 UFMat (G.WSW8.U9.M1)" = MATERIAL
          = RESISTANCE
  TYPE
  RESISTANCE = 12.3587
  . .
"EL1 UFMat (G.W9.U10.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 2.59909
  . .
"EL1 UFMat (G.W11.U12.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 10.7809
  . .
"EL1 UFMat (G.WNW14.U15.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 1.42432
"EL1 UFMat (G.NW15.U16.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 1.7405
  . .
"EL1 UFMat (G.N16.U17.M1)" = MATERIAL
  TYPE
                = RESISTANCE
  RESISTANCE = 5.78091
```

. .

```
"EL1 UFMat (G.E18.U19.M1)" = MATERIAL
                 = RESISTANCE
  TYPE
  RESISTANCE = 16.9664
   . .
"EL1 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Stucco 1in (SCO1)", "Bldg Paper Felt (BPO1)",
        "EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)" )
"019 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.1)", "GypBd 1/2in (GP01)" )
"379 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)" )
"437 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Stucco 1in (SCO1)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)" )
"625 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Plywd 5/8in (PW04)", "Insul Bd 3/8in (IN63)",
        "EL1 EWall Cons Mat 2 (6)", "GypBd 1/2in (GP01)" )
"634 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Stucco 1in (SCO1)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.1)", "GypBd 1/2in (GP01)" )
   . .
"718 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)" )
   . .
"730 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)" )
"731 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Plywd 5/8in (PW04)", "Bldg Paper Felt (BP01)",
        "EL1 EWall Cons Mat 2 (6)", "GypBd 1/2in (GP01)" )
  . .
```

```
"834 EWall Cons Layers" = LAYERS
  MATERIAL = ( "Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.6)", "GypBd 1/2in (GP01)" )
"845 EWall Cons Layers" = LAYERS
  MATERIAL
                   = ( "Plywd 5/8in (PWO4)", "Insul Bd 3/4in (IN62)",
        "EL1 EWall Cons Mat 2 (8.1)", "GypBd 1/2in (GP01)" )
"913 EWall Cons Layers" = LAYERS
  MATERIAL
                   = ( "Plywd 5/8in (PW04)", "Insul Bd 3/4in (IN62)",
        "EWall Cons Mat 2 (15.05)", "GypBd 1/2in (GP01)" )
   . .
"EL1 Roof Cons Layers" = LAYERS
  MATERIAL = ( "Blt-Up Roof 3/8in (BR01)", "Bldg Paper Felt (BP01)",
        "Plywd 5/8in (PW04)", "EL1 Roof Cons Mat 4 (27.1)" )
"EL1 Ceilg Cons Layers" = LAYERS
  MATERIAL = ( "AcousTile 1/2in (ACO2)" )
"EL1 IWall Cons Layers" = LAYERS
  MATERIAL = ( "GypBd 1/2in (GP01)", "EL1 IWall Cons Mat 2 (0.91)",
        "GypBd 1/2in (GP01)" )
"437 IWall Cons Layers" = LAYERS
                   = ( "GypBd 1/2in (GP01)", "EL1 IWall Cons Mat 2 (0.91)",
  MATERIAL
        "GypBd 1/2in (GP01)" )
"634 IWall Cons Layers" = LAYERS
                   = ( "GypBd 1/2in (GP01)", "EL1 IWall Cons Mat 2 (0.91)",
  MATERIAL
        "GypBd 1/2in (GP01)" )
"913 IWall Cons Layers" = LAYERS
                   = ( "GypBd 1/2in (GP01)", "IWall Cons Mat 2 (4.5)",
  MATERIAL
        "GypBd 1/2in (GP01)" )
"EL1 IFlr Cons Layers" = LAYERS
  MATERIAL = ( "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
"EL1 UFLyrs (G.NE1.U2)" = LAYERS
  MATERIAL
                  = ( "EL1 UFMat (G.NE1.U2.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
  . .
```

```
"EL1 UFLyrs (G.ESE2.U3)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.ESE2.U3.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
  . .
"EL1 UFLyrs (G.E3.U4)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.E3.U4.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
"EL1 UFLyrs (G.S4.U5)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.S4.U5.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
  . .
"EL1 UFLyrs (G.C6.U7)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.C6.U7.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
"EL1 UFLyrs (G.S7.U8)" = LAYERS
  MATERIAL = ("EL1 UFMat (G.S7.U8.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
"EL1 UFLyrs (G.WSW8.U9)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.WSW8.U9.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)")
"EL1 UFLyrs (G.W9.U10)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.W9.U10.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
"EL1 UFLyrs (G.W11.U12)" = LAYERS
  MATERIAL
                  = ( "EL1 UFMat (G.W11.U12.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)")
"EL1 UFLyrs (G.WNW14.U15)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.WNW14.U15.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
"EL1 UFLyrs (G.NW15.U16)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.NW15.U16.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
"EL1 UFLyrs (G.N16.U17)" = LAYERS
  MATERIAL = ( "EL1 UFMat (G.N16.U17.M1)", "Soil 12in",
```

```
"Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
  . .
"EL1 UFLyrs (G.E18.U19)" = LAYERS
  MATERIAL
            = ( "EL1 UFMat (G.E18.U19.M1)", "Soil 12in",
        "Conc HW 1401b 6in (HF-C13)", "Linoleum Tile (LT01)" )
  . .
"EL1 EWall Construction" = CONSTRUCTION
  TYPE
                = LAYERS
  ABSORPTANCE = 0.6
tagEWALL
  . .
"EL1 Roof Construction" = CONSTRUCTION
  TYPE
                = LAYERS
  ABSORPTANCE = 0.6
  ROUGHNESS
                = 1
  LAYERS = "EL1 Roof Cons Layers"
  . .
"EL1 Ceilg Construction" = CONSTRUCTION
  TYPE
                = LAYERS
  LAYERS
                = "EL1 Ceilg Cons Layers"
  . .
"EL1 IWall Construction" = CONSTRUCTION
tagIWALL
  . .
"EL1 IFlr Construction" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS = "EL1 IFlr Cons Layers"
  . .
"EL1 UFCons (G.NE1.U2)" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS = "EL1 UFLyrs (G.NE1.U2)"
  . .
"EL1 UFCons (G.ESE2.U3)" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS = "EL1 UFLyrs (G.ESE2.U3)"
  . .
"EL1 UFCons (G.E3.U4)" = CONSTRUCTION
  TYPE
                = LAYERS
  LAYERS
                = "EL1 UFLyrs (G.E3.U4)"
  . .
"EL1 UFCons (G.S4.U5)" = CONSTRUCTION
```

```
TYPE
               = LAYERS
  TYPE= LAYERSLAYERS= "EL1 UFLyrs (G.S4.U5)"
  . .
"EL1 UFCons (G.C6.U7)" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS = "EL1 UFLyrs (G.C6.U7)"
  ..
"EL1 UFCons (G.S7.U8)" = CONSTRUCTION
  TYPE
               = LAYERS
  LAYERS = "EL1 UFLyrs (G.S7.U8)"
  . .
"EL1 UFCons (G.WSW8.U9)" = CONSTRUCTION
  TYPE
               = LAYERS
  LAYERS
               = "EL1 UFLyrs (G.WSW8.U9)"
  . .
"EL1 UFCons (G.W9.U10)" = CONSTRUCTION
  TYPE
              = LAYERS
  LAYERS = "EL1 UFLyrs (G.W9.U10)"
  . .
"EL1 UFCons (G.W11.U12)" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS = "EL1 UFLyrs (G.W11.U12)"
  ..
"EL1 UFCons (G.WNW14.U15)" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS = "EL1 UFLyrs (G.WNW14.U15)"
  . .
"EL1 UFCons (G.NW15.U16)" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS
              = "EL1 UFLyrs (G.NW15.U16)"
  . .
"EL1 UFCons (G.N16.U17)" = CONSTRUCTION
  TYPE
               = LAYERS
  LAYERS = "EL1 UFLyrs (G.N16.U17)"
"EL1 UFCons (G.E18.U19)" = CONSTRUCTION
  TYPE = LAYERS
  LAYERS = "EL1 UFLyrs (G.E18.U19)"
  . .
"Sgl Lyr Unins Mtl Door" = CONSTRUCTION
  TYPE = U-VALUE
  U-VALUE = 2.08
```

```
$ -----
$
           Glass Types
$ -----
"EL1 Window Type #1 GT" = GLASS-TYPE
  TYPE
        = SHADING-COEF
  SHADING-COEF = 0.701149
  GLASS-CONDUCT = 0.907687
  VIS-TRANS = 0.81
  . .
"EL1 Door Type #1 GT" = GLASS-TYPE
  TYPE = SHADING-COEF
  SHADING-COEF = 0.701149
GLASS-CONDUCT = 0.907687
  VIS-TRANS = 0.81
  . .
"EL1 Door Type #3 GT" = GLASS-TYPE
  TYPE = SHADING-COEF
  SHADING-COEF = 0.827586
  GLASS-CONDUCT = 0.907687
  VIS-TRANS = 0.81
  . .
"019 Door Type #1 GT" = GLASS-TYPE
  TYPE = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2600"
"379 Window Type #1 GT" = GLASS-TYPE
  TYPE = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2004"
  . .
"437 Window Type #1 GT" = GLASS-TYPE
  TYPE = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2004"
"625 Window Type #1 GT" = GLASS-TYPE
```
```
TYPE
                = SHADING-COEF
  SHADING-COEF = 0.402299
  GLASS-CONDUCT = 0.554631
  VIS-TRANS = 0.81
  • •
"634 Window Type #1 GT" = GLASS-TYPE
  TYPE
                = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2600"
  . .
"718 Window Type #1 GT" = GLASS-TYPE
  TYPE
                 = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2004"
"730 Window Type #1 GT" = GLASS-TYPE
  TYPE = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2004"
  . .
"730 Window Type #2 GT" = GLASS-TYPE
  TYPE
        = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2203"
  . .
"731 Window Type #1 GT" = GLASS-TYPE
                = SHADING-COEF
  TYPE
  SHADING-COEF = 0.4
  GLASS-CONDUCT = 0.31
  . .
"731 Door Type #1 GT" = GLASS-TYPE
  TYPE = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "1001"
  . .
"834 Window Type #1 GT" = GLASS-TYPE
         = GLASS-TYPE-CODE
  TYPE
  GLASS-TYPE-CODE = "2004"
  . .
"834 Window Type #2 GT" = GLASS-TYPE
  TYPE = GLASS-TYPE-CODE
  GLASS-TYPE-CODE = "2203"
  . .
"845 Double Low e" = GLASS-TYPE
  TYPE
          = SHADING-COEF
  SHADING-COEF = \{0.35/0.87\}
  GLASS-CONDUCT = 0.31
```

```
VIS-TRANS = 0.7
  . .
"913 Window Type #1 GT" = GLASS-TYPE
     = GLASS-TYPE-CODE
 TYPE
 GLASS-TYPE-CODE = "2004"
  . .
"913 Door Type #1 GT" = GLASS-TYPE
 TYPE
     = GLASS-TYPE-CODE
 GLASS-TYPE-CODE = "Clr/Air1/Clr 3"
$ -----
$
        Window Layers
 _____
$
```

```
$ ------
$ Lamps / Luminaries / Lighting Systems
$ ------
```

```
$ -----
$
          Day Schedules
$ ------
"MajDD Bldg Occup WD" = DAY-SCHEDULE-PD
  TYPE
              = FRACTION
              = (0, &D, &D, &D, &D, &D, 0.099, 0.702, 0.9, &D, &D,
  VALUES
      0.504, &D, 0.9, &D, &D, 0.702, 0.297, 0.099, &D, &D, &D, 0)
"MajSD Bldg Occup WD" = DAY-SCHEDULE-PD
  TYPE
              = FRACTION
              VALUES
      &D, &D, &D, &D, 0)
"Min1 Bldg Occup WD" = DAY-SCHEDULE-PD
  TYPE
              = FRACTION
  VALUES
              = (0, &D, &D, &D, &D, 0.0271, 0.1806, 0.6592, 0.8488,
      0.903, &D, 0.5689, 0.5147, 0.8488, 0.903, &D, 0.7585, 0.4334,
```

```
0.2348, 0.1806, 0.1535, 0.1264, 0.0271, 0)
   . .
"Maj Bldg Occup WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = ( 0 )
   . .
"Min1 Bldg Occup WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0, &D, &D, &D, &D, &D, &D, 0.054, 0.081, 0.108, 0.135,
        0.1256, 0.108, 0.1256, 0.135, &D, 0.108, &D, 0.081, 0.054, 0.027,
        &D, 0)
   . .
"MajDD Bldg InsLt WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = (0.05, &D, &D, &D, &D, &D, 0.2965, 0.798, 0.9, &D, &D,
  VALUES
        &D, &D, &D, &D, 0.798, 0.5005, 0.2965, &D, 0.101, &D, 0.05)
"MajDD Bldg InsLt WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                  = ( 0.015 )
  VALUES
  . .
"MajDD Bldg InsLt HDD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                  = ( 0 )
  VALUES
"437 Bldg InsLt WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.0525, 0.035, &D, &D, 0.0525, 0.1578, 0.4033, 0.8068,
        0.912, &D, &D, &D, 0.8945, 0.912, &D, &D, 0.8418, 0.6314, 0.456,
        0.4209, 0.2455, 0.2104, 0.1227, 0.0876 )
   . .
"437 Bldg InsLt WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.0164, 0.011, &D, &D, &D, 0.0219, 0.0477, 0.064,
        0.0742, 0.079, &D, &D, &D, &D, &D, &D, 0.0742, 0.064, 0.0586.
        0.0532, 0.0477, 0.0423, 0.0368, 0.0273)
   . .
"027 Bldg InsLt Sat" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.05)
   . .
"019 Bldg InsLt Cor WD" = DAY-SCHEDULE-PD
```

```
TYPE
                   = FRACTION
                   = (0.0465, &D, &D, &D, &D, &D, &D, 0.4702, 0.8939, &D,
  VALUES
        &D, &D, &D, &D, &D, &D, &D, 0.4702, 0.0465)
"019 Bldg InsLt Cor WEH" = DAY-SCHEDULE-PD
                   = FRACTION
  TYPE
  VALUES
                   = (0.0465)
  . .
"019 Bldg InsLt Per WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = ( 0, &D, &D, &D, &D, &D, &D, 0.45, 0.9, &D, &D, &D, &D,
        &D, &D, &D, &D, 0.45, 0)
"019 Bldg InsLt Per WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                  = ( 0 )
   • •
"379 Bldg InsLt Cor WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( 0.1, &D, &D, &D, &D, &D, &D, 0.5, 0.9, &D, &D, &D, &D,
  VALUES
        &D, &D, &D, &D, 0.5, 0.1)
"379 Bldg InsLt Cor WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                  = (0.1)
  VALUES
   . .
"379 Bldg InsLt Per WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                 = (0.0125, &D, &D, &D, &D, &D, &D, 0.4561, 0.8998, &D,
  VALUES
        &D, &D, &D, &D, &D, &D, &D, 0.4561, 0.0125 )
   . .
"379 Bldg InsLt Per WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = (0.0125)
  VALUES
"730 Bldg InsLt Cor WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( 0.1, &D, &D, &D, &D, &D, &D, 0.5, 0.9, &D, &D, &D, &D,
  VALUES
       &D, &D, &D, &D, 0.5, 0.1)
"730 Bldg InsLt Cor WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
```

```
VALUES
                   = (0.1)
  . .
"730 Bldg InsLt Per WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.0311, &D, &D, &D, &D, &D, &D, 0.4655, 0.9, &D, &D,
        &D, &D, &D, &D, &D, &D, 0.4655, 0.0311)
"730 Bldg InsLt Per WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                  = (0.0311)
  • •
"834 Bldg InsLt WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = ( 0.0471, &D, &D, &D, &D, &D, &D, 0.4735, 0.9, &D, &D,
        &D, &D, &D, &D, &D, &D, 0.4735, 0.0471 )
"834 Bldg InsLt WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = (0.0471)
  VALUES
  . .
"913 Bldg InsLt Cor WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = (0.0233, &D, &D, &D, &D, &D, &D, 0.4617, 0.9, &D, &D,
  VALUES
        &D, &D, &D, &D, &D, &D, 0.4617, 0.0233 )
"913 Bldg InsLt Cor WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.0233)
"913 Bldg InsLt Per WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( 0, &D, &D, &D, &D, &D, &D, 0.45, 0.9, &D, &D, &D, &D,
  VALUES
        &D, &D, &D, &D, 0.45, 0)
   . .
"913 Bldg InsLt Per WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( 0 )
  VALUES
"019 Bldg OffEq Cor WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.0498, &D, &D, &D, &D, &D, &D, &D, &D, 0.8939, &D, &D,
        &D, &D, &D, &D, &D, &D, 0.0498)
```

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"019 Bldg OffEq Cor WEH" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                = (0.0498)
  VALUES
  ••
"019 Bldg OffEq Per WD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 &D, &D, &D, &D, 0.2)
"019 Bldg OffEq Per WEH" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                = (0.2)
  VALUES
  . .
"027 Bldg OffEq WD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                 = (0.12, &D, &D, &D, &D, &D, 0.2214, 0.7596, 0.9, &D, &D,
  VALUES
       0.7362, &D, 0.9, &D, &D, 0.822, 0.4164, 0.2214, &D, 0.159, &D, 0.12)
"027 Bldg OffEq Sat" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
  VALUES
                = ( 0.12 )
  . .
"027 Bldg OffEq Sun" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                = (0.036)
  VALUES
  . .
"027 Bldg OffEq HDD" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
                 = ( 0 )
  VALUES
  . .
"027 Bldg Misc WD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 = (0.2, &D, &D, &D, &D, &D, 0.298, 0.802, 0.9, &D, &D,
       &D, &D, &D, &D, &D, &D, 0.501, 0.298, &D, 0.2)
"027 Bldg Misc Sat" = DAY-SCHEDULE-PD
                = FRACTION
  TYPE
                = (0.2)
  VALUES
  . .
"027 Bldg Misc Sun" = DAY-SCHEDULE-PD
           = FRACTION
  TYPE
```

```
VALUES
           = ( 0.06 )
  . .
"027 Bldg Misc HDD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
                 = ( 0 )
  VALUES
"379 Bldg OffEq Cor WD" = DAY-SCHEDULE-PD
                  = FRACTION
  TYPE
                  VALUES
        &D, &D, &D, &D, 0)
   . .
"379 Bldg OffEq Cor WEH" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
  VALUES
                  = ( 0 )
  . .
"379 Bldg OffEq Per WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
                  = ( 0.1565, &D, &D, &D, &D, &D, &D, &D, 0.8998, &D, &D,
  VALUES
        &D, &D, &D, &D, &D, &D, 0.1565)
"379 Bldg OffEq Per WEH" = DAY-SCHEDULE-PD
                  = FRACTION
  TYPE
                 = (0.1565)
  VALUES
  • •
"437 Bldg OffEq WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
  VALUES
                  = (0.12, &D, &D, &D, &D, 0.1356, 0.2608, 0.7378, 0.8785,
        0.902, &D, 0.7769, 0.7456, 0.8785, 0.902, &D, 0.8551, 0.4875,
        0.2842, 0.2608, 0.1826, 0.1747, 0.1356, 0.12)
   . .
"437 Bldg OffEq WEH" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
  VALUES
                  = (0.036, &D, &D, &D, &D, &D, &D, 0.044, 0.048, 0.052,
        0.056, 0.0546, 0.052, 0.0546, 0.056, &D, 0.052, &D, 0.048, 0.044,
        0.04, &D, 0.036)
"437 Bldg OffEq HDD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                 = ( 0 )
  VALUES
  . .
"625 Bldg OffEq WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
```

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VALUES
                    = ( 0, &D, &D, &D, &D, &D, 0, 0, 0, &D, &D, &D, &D, &D,
         &D, &D, &D, 0, 0, &D, 0)
"625 Bldg OffEq WEH" = DAY-SCHEDULE-PD
   TYPE
                   = FRACTION
  VALUES
                   = (0.04)
   . .
"634 Bldg OffEq WD" = DAY-SCHEDULE-PD
   TYPE
                    = FRACTION
  VALUES
                    = (0.12, &D, &D, &D, &D, &D, 0.2214, 0.7596, 0.9, &D, &D,
        0.7362, &D, 0.9, &D, &D, 0.822, 0.4164, 0.2214, &D, 0.159, &D, 0.12)
   . .
"634 Bldg OffEq WEH" = DAY-SCHEDULE-PD
   TYPE
                   = FRACTION
                   = (0.036)
  VALUES
   . .
"634 Bldg OffEq HDD" = DAY-SCHEDULE-PD
  TYPE
                    = FRACTION
  VALUES
                   = ( 0 )
   . .
"634 Bldg Misc WD" = DAY-SCHEDULE-PD
  TYPE
                    = FRACTION
                  = (0.2, \&D, \&D, \&D, \&D, \&D, 0.298, 0.802, 0.9, \&D, \&D, \&D, (0.298, 0.802, 0.9, (0.298, 0.802))
   VALUES
         &D, &D, &D, &D, &D, &D, 0.501, 0.298, &D, 0.2)
"634 Bldg Misc WEH" = DAY-SCHEDULE-PD
  TYPE
                    = FRACTION
  VALUES
                   = (0.06)
   . .
"634 Bldg Misc HDD" = DAY-SCHEDULE-PD
  TYPE
                    = FRACTION
  VALUES
                  = ( 0 )
   . .
"718 Bldg OffEq WD" = DAY-SCHEDULE-PD
   TYPE
                    = FRACTION
                    = (0.2, &D, &D, &D, &D, &D, 0.298, 0.802, 0.9, &D, &D,
   VALUES
         &D, &D, &D, &D, &D, &D, 0.501, 0.298, &D, 0.2)
"718 Bldg OffEq WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                  = (0.06)
   . .
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```
"718 Bldg OffEq HDD" = DAY-SCHEDULE-PD
  TYPE
               = FRACTION
  VALUES
               = ( 0 )
  . .
"730 Bldg OffEq Cor WD" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
  VALUES
                &D, &D, &D, &D, 0)
"730 Bldg OffEq Cor WEH" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
  VALUES
              = ( 0 )
"730 Bldg OffEq Per WD" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
               VALUES
       &D, &D, &D, &D, &D, 0.1061 )
  . .
"730 Bldg OffEq Per WEH" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
               = (0.1061)
  VALUES
"731 Bldg OffEq WD" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
                = (0.12, &D, &D, &D, &D, &D, 0.2214, 0.7596, 0.9, &D, &D,
  VALUES
       0.7362, &D, 0.9, &D, &D, 0.822, 0.4164, 0.2214, &D, 0.159, &D, 0.12)
  . .
"731 Bldg OffEq WEH" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
                = (0.036)
  VALUES
  . .
"731 Bldg OffEq HDD" = DAY-SCHEDULE-PD
  TYPE
               = FRACTION
  VALUES
           = ( 0 )
"834 Bldg OffEq WD" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
                VALUES
      &D, &D, &D, &D, &D, 0.0757 )
"834 Bldg OffEq WEH" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
```

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VALUES
                = (0.0757)
  . .
"845 Bldg OffEq WD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 = (0.12, &D, &D, &D, &D, &D, 0.2214, 0.7596, 0.9, &D, &D,
       0.7362, &D, 0.9, &D, &D, 0.822, 0.4164, 0.2214, &D, 0.159, &D, 0.12)
"845 Bldg OffEq WEH" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 = (0.036)
  . .
"845 Bldg OffEq HDD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 = ( 0 )
  . .
"845 Bldg Misc WD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                 = (0.2, &D, &D, &D, &D, &D, 0.298, 0.802, 0.9, &D, &D,
  VALUES
       &D, &D, &D, &D, &D, &D, 0.501, 0.298, &D, 0.2)
  . .
"845 Bldg Misc WEH" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                 = (0.06)
  VALUES
  ..
"845 Bldg Misc HDD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 = ( 0 )
  . .
"913 Bldg OffEq Cor WD" = DAY-SCHEDULE-PD
                 = FRACTION
  TYPE
                 VALUES
       &D, &D, &D, &D, &D, 0.1254 )
"913 Bldg OffEq Cor WEH" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
                 = (0.1254)
  VALUES
  . .
"913 Bldg OffEq Per WD" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 &D, &D, &D, &D, 0.2)
  . .
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"913 Bldg OffEq Per WEH" = DAY-SCHEDULE-PD
  TYPE
               = FRACTION
  VALUES
               = ( 0.2 )
  . .
"027 ZGO-S1 (PSZ) C-Inf S1 Sat" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
  VALUES
              &D, &D, &D, &D, 1)
"027 ZG4-S1 (PSZ) C-Inf S1 All" = DAY-SCHEDULE-PD
  TYPE
                = FRACTION
  VALUES
               = (0.5)
  . .
"437 ZGO-S1 (PSZ) P-Inf S1 WD" = DAY-SCHEDULE-PD
  TYPE
                = MULTIPLIER
               = (1, &D, &D, &D, &D, 1.1306, 1.25, &D, 1.0814, 0.5125,
  VALUES
       1.25, &D, &D, &D, 0.5125, 0.7834, 1.25, &D, 1.2028, 1.0313, 1.0042,
       1.0764, &D, 1)
"437 ZGO-S1 (PSZ) P-Inf S1 WEH" = DAY-SCHEDULE-PD
  TYPE
               = MULTIPLIER
  VALUES
               = (1, &D, &D, &D, &D, &D, 1.004, 1.031, 1.004, &D, 1, &D,
       &D, &D, &D, &D, &D, &D, 1.004, &D, 1)
"S1 EL1 Sys1 (PMZS) (G) CRS-D" = DAY-SCHEDULE-PD
  TYPE
                = RESET-TEMP
  OUTSIDE-HI
               = 80
               = 60
  OUTSIDE-LO
  SUPPLY-HI
               = 65
  SUPPLY-LO = 55
  . .
"GndCor Sys1 Inf 1/0/1 D1" = DAY-SCHEDULE-PD
  TYPE
                = MULTIPLIER
               VALUES
       &D, &D, &D, 1.25, &D, 1)
"GndCor Sys1 Inf 1/0/1 D2" = DAY-SCHEDULE-PD
  TYPE
                = MULTIPLIER
  VALUES
               = (1)
  . .
"GndCor Sys1 Heat 1/0 D1" = DAY-SCHEDULE-PD
```

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TYPE
              = TEMPERATURE
              VALUES
      &D, &D, &D, &D, 64 )
  . .
"GndCor Sys1 Heat 1/0 D2" = DAY-SCHEDULE-PD
  TYPE
              = TEMPERATURE
  VALUES
              = (64)
  . .
"S1 Sys1 (PSZ) Heat Sat" = DAY-SCHEDULE-PD
  TYPE
               = TEMPERATURE
  VALUES
               &D, &D, &D, &D, 64)
"GndCor Sys1 Cool 1/0 D1" = DAY-SCHEDULE-PD
  TYPE
              = TEMPERATURE
              = (82, &D, &D, &D, &D, &D, &D, &D, 76, &D, &D, &D,
  VALUES
      &D, &D, &D, &D, 82 )
"GndCor Sys1 Cool 1/0 D2" = DAY-SCHEDULE-PD
  TYPE
              = TEMPERATURE
              = (82)
  VALUES
"S1 Sys1 (PSZ) Cool Sat" = DAY-SCHEDULE-PD
  TYPE = TEMPERATURE
              VALUES
      &D, &D, &D, &D, 82)
  . .
"027 S1 Sys1 (PSZ) Fan Sat" = DAY-SCHEDULE-PD
  TYPE
               = ON/OFF/FLAG
               = ( 0, &D, &D, &D, &D, &D, &D, &D, 1, &D, &D, &D, &D, &D,
  VALUES
      &D, &D, &D, 0)
"027 S5 Sys5 (PSZ) Fan All" = DAY-SCHEDULE-PD
  TYPE
               = ON/OFF/FLAG
  VALUES
              = (1)
  • •
"027 DHW Eqp NRes Sat" = DAY-SCHEDULE-PD
  TYPE
             = FRACTION
             = (0.05)
  VALUES
  . .
"437 DHW Eqp NRes WEH" = DAY-SCHEDULE-PD
  TYPE
              = FRACTION
```

VALUES = (0.012, &D, &D, &D, &D, &D, 0.0148, 0.0214, 0.0313, 0.0562, 0.059, 0.0524, 0.0463, 0.0524, 0.059, &D, 0.0463, 0.0341, 0.0275, 0.0247, &D, 0.0214, 0.0148, 0.012) • • "EL1 Bldg Occup S1 WD" = DAY-SCHEDULE-PD TYPE = FRACTION = (0, &D, &D, &D, &D, &D, 0.099, 0.702, 0.9, &D, &D, VALUES 0.504, &D, 0.9, &D, &D, 0.702, 0.297, 0.099, &D, &D, &D, 0) . . "EL1 Bldg Occup S1 WEH" = DAY-SCHEDULE-PD TYPE = FRACTION VALUES = (0) . . "EL1 Bldg Occup S2 WD" = DAY-SCHEDULE-PD TYPE = FRACTION = (0, &D, &D, &D, &D, &D, &D, 0.0742, 0.5265, 0.675, &D, &D, VALUES 0.378, &D, 0.675, &D, &D, 0.5265, 0.2228, 0.0742, &D, &D, &D, 0) "EL1 Bldg InsLt S1 WD" = DAY-SCHEDULE-PD TYPE = FRACTION = (0, &D, &D, &D, &D, &D, 0.261, 0.792, 0.9, &D, &D, &D, VALUES &D, &D, &D, &D, 0.792, 0.477, 0.261, &D, 0.054, &D, 0) "EL1 Bldg InsLt S1 WEH" = DAY-SCHEDULE-PD TYPE = FRACTION VALUES &D, &D, &D, 0) . . "EL1 Bldg InsLt S1 HDD" = DAY-SCHEDULE-PD TYPE = FRACTION VALUES = (0). . "EL1 Bldg InsLt S2 WD" = DAY-SCHEDULE-PD TYPE = FRACTION = (0, &D, &D, &D, &D, &D, 0.1957, 0.594, 0.675, &D, &D, VALUES &D, &D, &D, &D, &D, 0.594, 0.3577, 0.1957, &D, 0.0405, &D, 0) "EL1 Bldg OffEq S1 WD" = DAY-SCHEDULE-PD TYPE = FRACTION = (0.25, &D, &D, &D, &D, &D, 0.3345, 0.783, 0.9, &D, &D, VALUES

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0.7635, &D, 0.9, &D, &D, 0.835, 0.497, 0.3345, &D, 0.2825, &D, 0.25)
   . .
"EL1 Bldg OffEq S1 WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.25)
   . .
"EL1 Bldg OffEq S1 HDD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
                 = ( 0 )
  VALUES
"EL1 Bldg OffEq S2 WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                  = (0.09, &D, &D, &D, &D, &D, 0.166, 0.5697, 0.675, &D,
  VALUES
        &D, 0.5522, &D, 0.675, &D, &D, 0.6165, 0.3123, 0.166, &D, 0.1192,
        &D, 0.09)
"EL1 Bldg OffEq S2 WEH" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                  = (0.09)
  VALUES
   . .
"Ext Lighting W1 All" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = (0.6, &D, &D, &D, &D, &D, 0.4, 0.1, 0, &D, &D, &D, &D,
  VALUES
        &D, &D, &D, 0.3, 0.8, 0.9, &D, &D, &D, 0.8, 0.7)
"Ext Lighting W2 All" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.6, &D, &D, &D, &D, 0.45, 0.15, 0, &D, &D, &D, &D,
        &D, &D, &D, &D, &D, 0.25, 0.7, 0.9, &D, &D, 0.8, 0.7)
   . .
"Ext Lighting W5 All" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
  VALUES
                   = (0.6, &D, &D, &D, 0.4, 0.2, 0, &D, &D, &D, &D, &D, &D,
        &D, &D, &D, &D, &D, &D, 0.15, 0.5, 0.9, 0.8, 0.7)
"Ext Lighting W8 All" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( 0.6, &D, &D, &D, &D, &D, 0.3, 0.1, 0, &D, &D, &D, &D,
  VALUES
        &D, &D, &D, 0.15, 0.6, 0.9, &D, &D, &D, 0.8, 0.7)
"DHW Eqp NRes W1 WD" = DAY-SCHEDULE-PD
  TYPE
                   = FRACTION
```

```
VALUES
                  = (0.05, &D, &D, &D, &D, &D, 0.101, 0.5005, &D, 0.9, &D,
        &D, &D, &D, &D, 0.696, 0.5005, 0.2965, 0.203, &D, &D, 0.05)
"DHW Eqp NRes W1 WEH" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
  VALUES
                 = (0.015)
  . .
"DHW Eqp NRes W1 HDD" = DAY-SCHEDULE-PD
                  = FRACTION
  TYPE
                 = ( 0 )
  VALUES
  . .
"DHW Eqp NRes W2 WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
  VALUES
                  = (0.038, &D, &D, &D, &D, &D, 0.0762, 0.3756, &D, 0.675,
        &D, &D, &D, &D, &D, 0.5221, 0.3756, 0.2227, 0.1527, &D, &D, 0.038)
"ZGO-S1 (PSZ) P-Inf S1 WD" = DAY-SCHEDULE-PD
  TYPE
                  = MULTIPLIER
                  = (1, &D, &D, &D, &D, 1.049, 1.25, &D, 0.944, 0.5, 1.25,
  VALUES
        &D, &D, &D, 0.5, 0.944, 1.25, &D, 1.148, 1, &D, 1.049, &D, 1)
"ZGO-S1 (PSZ) P-Inf S1 WEH" = DAY-SCHEDULE-PD
  TYPE
                  = MULTIPLIER
  VALUES
                 = (1)
"ZGO-S1 (PSZ) P-Inf S1 HDD" = DAY-SCHEDULE-PD
  TYPE
                  = MULTIPLIER
  VALUES
                  &D, &D, &D, &D, &D, 1)
  . .
"ZGO-S1 (PSZ) P-Inf S2 WD" = DAY-SCHEDULE-PD
  TYPE
                  = MULTIPLIER
  VALUES
                  = (1, &D, &D, &D, &D, 1.0243, 1.25, &D, 0.7955, 0.5,
        1.241, &D, &D, &D, 0.5, 0.7955, 1.25, &D, 1.0985, 1, &D, 1.0243, &D,
        1)
"ZGO-S1 (PSZ) C-Inf S1 WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
                  VALUES
        &D, &D, &D, &D, &D, 1)
"ZGO-S1 (PSZ) C-Inf S1 WEH" = DAY-SCHEDULE-PD
```

```
TYPE
              = FRACTION
         = (1)
  VALUES
  . .
"S1 Sys1 (PSZ) Fan S1 WD" = DAY-SCHEDULE-PD
  TYPE
         = ON/OFF/FLAG
  VALUES
              &D, &D, &D, &D, 0)
  . .
"S1 Sys1 (PSZ) Fan S1 WEH" = DAY-SCHEDULE-PD
               = ON/OFF/FLAG
  TYPE
               = ( 0 )
  VALUES
  . .
"S1 Sys1 (PSZ) Cool S1 WD" = DAY-SCHEDULE-PD
  TYPE
               = TEMPERATURE
               VALUES
      &D, &D, &D, &D, &D, 82)
"S1 Sys1 (PSZ) Cool S1 WEH" = DAY-SCHEDULE-PD
  TYPE
               = TEMPERATURE
  VALUES
              = (82)
  . .
"S1 Sys1 (PSZ) Heat S1 WD" = DAY-SCHEDULE-PD
  TYPE
               = TEMPERATURE
  VALUES
               &D, &D, &D, &D, &D, 64)
"S1 Sys1 (PSZ) Heat S1 WEH" = DAY-SCHEDULE-PD
  TYPE
               = TEMPERATURE
  VALUES
              = (64)
  . .
"EL1 Bldg InsLt S1n1 WD" = DAY-SCHEDULE-PD
  TYPE
               = FRACTION
  VALUES
               = (0.25, &D, &D, &D, &D, &D, 0.4385, 0.822, 0.9, &D, &D,
       &D, &D, &D, &D, &D, 0.822, 0.5945, 0.4385, &D, 0.289, &D, 0.25)
"EL1 Bldg InsLt S1n1 WEH" = DAY-SCHEDULE-PD
  TYPE
               = FRACTION
              = ( 0.25 )
  VALUES
"EL1 Bldg InsLt S1n1 HDD" = DAY-SCHEDULE-PD
  TYPE
               = FRACTION
  VALUES = (0)
```

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"EL1 Bldg InsLt S2n1 WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
                  = (0.25, &D, &D, &D, &D, &D, 0.3733, 0.624, 0.675, &D,
  VALUES
        &D, &D, &D, &D, &D, &D, 0.624, 0.4752, 0.3733, &D, 0.2755, &D, 0.25)
"EL1 Bldg InsLt S1n2 WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
  VALUES
                  = (0.49, &D, &D, &D, &D, &D, 0.6089, 0.8508, 0.9, &D, &D,
        &D, &D, &D, &D, &D, 0.8508, 0.7073, 0.6089, &D, 0.5146, &D, 0.49)
   . .
"EL1 Bldg InsLt S1n2 WEH" = DAY-SCHEDULE-PD
  TYPE
                 = FRACTION
  VALUES
                 = (0.49)
  . .
"EL1 Bldg InsLt S1n2 HDD" = DAY-SCHEDULE-PD
                 = FRACTION
  TYPE
                 = ( 0 )
  VALUES
  . .
"EL1 Bldg InsLt S2n2 WD" = DAY-SCHEDULE-PD
  TYPE
                  = FRACTION
  VALUES
                 = (0.49, &D, &D, &D, &D, &D, 0.5437, 0.6528, 0.675, &D,
        &D, &D, &D, &D, &D, &D, 0.6528, 0.5881, 0.5437, &D, 0.5011, &D,
        0.49)
  . .
$ ------
$
            Week Schedules
$ -----
"MajDD Bldg Occup Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "MajDD Bldg Occup WD", &D, &D, &D,
        "Maj Bldg Occup WEH", &D, &D, "Maj Bldg Occup WEH" )
"MajSD Bldg Occup Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "MajSD Bldg Occup WD", &D, &D, &D,
        "Maj Bldg Occup WEH", &D, &D, "Maj Bldg Occup WEH" )
"Min1 Bldg Occup Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
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DAY-SCHEDULES = ( "Min1 Bldg Occup WD", &D, &D, &D,
        "Min1 Bldg Occup WEH", &D, &D, "Maj Bldg Occup WEH" )
"MajDD Bldg InsLt Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "MajDD Bldg InsLt WD", &D, &D, &D,
         "MajDD Bldg InsLt WEH", &D, &D, "MajDD Bldg InsLt HDD" )
   . .
"027 Bldg InsLt Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
                  = ( "MajDD Bldg InsLt WD", &D, &D, &D, &D,
  DAY-SCHEDULES
         "027 Bldg InsLt Sat", "MajDD Bldg InsLt WEH", &D,
        "MajDD Bldg InsLt HDD" )
"437 Bldg InsLt Wk" = WEEK-SCHEDULE-PD
                   = FRACTION
  TYPE
  DAY-SCHEDULES = ( "437 Bldg InsLt WD", &D, &D, &D,
        "437 Bldg InsLt WEH", &D, &D, "MajDD Bldg InsLt HDD" )
"834 Bldg InsLt Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "834 Bldg InsLt WD", &D, &D, &D,
        "834 Bldg InsLt WEH", &D, &D, "834 Bldg InsLt WEH" )
"019 Bldg InsLt Cor Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES
                  = ( "019 Bldg InsLt Cor WD", &D, &D, &D, &D,
        "019 Bldg InsLt Cor WEH", &D, &D, "019 Bldg InsLt Cor WEH" )
"019 Bldg InsLt Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "019 Bldg InsLt Per WD", &D, &D, &D,
        "019 Bldg InsLt Per WEH", &D, &D, "019 Bldg InsLt Per WEH" )
   . .
"379 Bldg InsLt Cor Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( "379 Bldg InsLt Cor WD", &D, &D, &D, &D,
  DAY-SCHEDULES
        "379 Bldg InsLt Cor WEH", &D, &D, "379 Bldg InsLt Cor WEH" )
"379 Bldg InsLt Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "379 Bldg InsLt Per WD", &D, &D, &D, &D,
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"379 Bldg InsLt Per WEH", &D, &D, "379 Bldg InsLt Per WEH" )
"730 Bldg InsLt Cor Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
                  = ( "730 Bldg InsLt Cor WD", &D, &D, &D, &D,
  DAY-SCHEDULES
        "730 Bldg InsLt Cor WEH", &D, &D, "730 Bldg InsLt Cor WEH" )
"730 Bldg InsLt Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "730 Bldg InsLt Per WD", &D, &D, &D, &D,
        "730 Bldg InsLt Per WEH", &D, &D, "730 Bldg InsLt Per WEH" )
   . .
"913 Bldg InsLt Cor Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES
                   = ( "913 Bldg InsLt Cor WD", &D, &D, &D, &D,
        "913 Bldg InsLt Cor WEH", &D, &D, "913 Bldg InsLt Cor WEH" )
"913 Bldg InsLt Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "913 Bldg InsLt Per WD", &D, &D, &D,
        "913 Bldg InsLt Per WEH", &D, &D, "913 Bldg InsLt Per WEH" )
"019 Bldg OffEq Cor Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "019 Bldg OffEq Cor WD", &D, &D, &D, &D,
        "019 Bldg OffEq Cor WEH" )
"019 Bldg OffEq Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( "019 Bldg OffEq Per WD", &D, &D, &D, &D,
  DAY-SCHEDULES
        "019 Bldg OffEq Per WEH" )
"027 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "027 Bldg OffEq WD", &D, &D, &D,
        "027 Bldg OffEq Sat", "027 Bldg OffEq Sun", &D,
        "027 Bldg OffEq HDD" )
"027 Bldg Misc Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "027 Bldg Misc WD", &D, &D, &D,
        "027 Bldg Misc Sat", "027 Bldg Misc Sun", &D,
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"027 Bldg Misc HDD" )
  . .
"379 Bldg OffEq Cor Wk" = WEEK-SCHEDULE-PD
                   = FRACTION
  TYPE
  DAY-SCHEDULES = ( "379 Bldg OffEq Cor WD", &D, &D, &D, &D,
        "379 Bldg OffEq Cor WEH" )
"379 Bldg OffEq Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "379 Bldg OffEq Per WD", &D, &D, &D, &D,
        "379 Bldg OffEq Per WEH" )
   . .
"437 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "437 Bldg OffEq WD", &D, &D, &D,
        "437 Bldg OffEq WEH", &D, &D, "437 Bldg OffEq HDD" )
"625 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "625 Bldg OffEq WD" , &D, &D, &D,
        "625 Bldg OffEq WEH", &D, &D, "625 Bldg OffEq WD",
        "625 Bldg OffEq WEH" )
   . .
"634 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "634 Bldg OffEq WD", &D, &D, &D,
        "634 Bldg OffEq WEH", &D, &D, "634 Bldg OffEq HDD" )
"634 Bldg Misc Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "634 Bldg Misc WD", &D, &D, &D,
        "634 Bldg Misc WEH", &D, &D, "634 Bldg Misc HDD" )
"718 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "718 Bldg OffEq WD", &D, &D, &D,
        "718 Bldg OffEq WEH", &D, &D, "718 Bldg OffEq HDD" )
"730 Bldg OffEq Cor Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "730 Bldg OffEq Cor WD", &D, &D, &D,
        "730 Bldg OffEq Cor WEH" )
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"730 Bldg OffEq Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "730 Bldg OffEq Per WD", &D, &D, &D,
        "730 Bldg OffEq Per WEH" )
"731 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
                 = FRACTION
  TYPE
  DAY-SCHEDULES = ( "731 Bldg OffEq WD", &D, &D, &D,
        "731 Bldg OffEq WEH", &D, &D, "731 Bldg OffEq HDD" )
   . .
"834 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "834 Bldg OffEq WD", &D, &D, &D,
        "834 Bldg OffEq WEH" )
"845 Bldg OffEq Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "845 Bldg OffEq WD", &D, &D, &D,
        "845 Bldg OffEq WEH", &D, &D, "845 Bldg OffEq HDD" )
"845 Bldg Misc Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "845 Bldg Misc WD", &D, &D, &D,
        "845 Bldg Misc WEH", &D, &D, "845 Bldg Misc HDD" )
"913 Bldg OffEq Cor Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "913 Bldg OffEq Cor WD", &D, &D, &D, &D,
        "913 Bldg OffEq Cor WEH" )
   . .
"913 Bldg OffEq Per Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "913 Bldg OffEq Per WD", &D, &D, &D,
        "913 Bldg OffEq Per WEH" )
"027 ZGO-S1 (PSZ) C-Inf Wk" = WEEK-SCHEDULE-PD
                   = FRACTION
  TYPE
  DAY-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 WD", &D, &D, &D,
        "027 ZGO-S1 (PSZ) C-Inf S1 Sat", "ZGO-S1 (PSZ) C-Inf S1 WEH" )
"027 ZG4-S1 (PSZ) C-Inf Wk" = WEEK-SCHEDULE-PD
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TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "027 ZG4-S1 (PSZ) C-Inf S1 All" )
"437 ZGO-S1 (PSZ) P-Inf Wk" = WEEK-SCHEDULE-PD
                 = MULTIPLIER
  TYPE
  DAY-SCHEDULES = ( "437 ZGO-S1 (PSZ) P-Inf S1 WD", &D, &D, &D, &D,
        "437 ZGO-S1 (PSZ) P-Inf S1 WEH", &D, &D, "ZGO-S1 (PSZ) P-Inf S1 HDD" )
"GndCor Sys1 Infil 1/0 W1" = WEEK-SCHEDULE-PD
  TYPE
                   = MULTIPLIER
  DAY-SCHEDULES = ( "GndCor Sys1 Inf 1/0/1 D1", &D, &D, &D, &D,
        "GndCor Sys1 Inf 1/0/1 D2" )
"GndCor Sys1 Heat 1/0 W1" = WEEK-SCHEDULE-PD
  TYPE
                 = TEMPERATURE
  DAY-SCHEDULES = ( "GndCor Sys1 Heat 1/0 D1", &D, &D, &D,
        "GndCor Sys1 Heat 1/0 D2" )
"027 S1 Sys1 (PSZ) Heat Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = TEMPERATURE
  DAY-SCHEDULES = ( "S1 Sys1 (PSZ) Heat S1 WD", &D, &D, &D, &D,
        "S1 Sys1 (PSZ) Heat Sat", "S1 Sys1 (PSZ) Heat S1 WEH" )
"GndCor Sys1 Cool 1/0 W1" = WEEK-SCHEDULE-PD
  TYPE
                  = TEMPERATURE
  DAY-SCHEDULES = ( "GndCor Sys1 Cool 1/0 D1", &D, &D, &D,
        "GndCor Sys1 Cool 1/0 D2" )
"027 S1 Sys1 (PSZ) Cool Wk" = WEEK-SCHEDULE-PD
                   = TEMPERATURE
  TYPE
  DAY-SCHEDULES = ( "S1 Sys1 (PSZ) Cool S1 WD", &D, &D, &D,
        "S1 Sys1 (PSZ) Cool Sat", "S1 Sys1 (PSZ) Cool S1 WEH" )
"027 S1 Sys1 (PSZ) Fan Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = ON/OFF/FLAG
  DAY-SCHEDULES = ("S1 Sys1 (PSZ) Fan S1 WD", &D, &D, &D, &D,
        "027 S1 Sys1 (PSZ) Fan Sat", "S1 Sys1 (PSZ) Fan S1 WEH" )
"027 S5 Sys5 (PSZ) Fan Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = ON/OFF/FLAG
  DAY-SCHEDULES = ("027 S5 Sys5 (PSZ) Fan All")
  . .
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"027 DHW Eqp NRes Wk" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "DHW Eqp NRes W1 WD", &D, &D, &D,
         "027 DHW Eqp NRes Sat", "DHW Eqp NRes W1 WEH", &D,
        "DHW Eqp NRes W1 HDD" )
"437 DHW Eqp NRes Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "DHW Eqp NRes W1 WD", &D, &D, &D,
        "437 DHW Eqp NRes WEH", &D, &D, "DHW Eqp NRes W1 HDD" )
   . .
"S1 EL1 Sys1 (PMZS) (G) CRS-W" = WEEK-SCHEDULE-PD
                 = RESET-TEMP
  TYPE
  DAY-SCHEDULES = ( "S1 EL1 Sys1 (PMZS) (G) CRS-D" )
  . .
"EL1 Bldg Occup S1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg Occup S1 WD", &D, &D, &D,
        "EL1 Bldg Occup S1 WEH", &D, &D, "EL1 Bldg Occup S1 WEH" )
"EL1 Bldg Occup S2 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES
                  = ( "EL1 Bldg Occup S2 WD", &D, &D, &D, &D,
        "EL1 Bldg Occup S1 WEH", &D, &D, "EL1 Bldg Occup S1 WEH" )
"EL1 Bldg InsLt S1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg InsLt S1 WD", &D, &D, &D,
        "EL1 Bldg InsLt S1 WEH", &D, &D, "EL1 Bldg InsLt S1 HDD" )
   . .
"EL1 Bldg InsLt S2 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
                   = ( "EL1 Bldg InsLt S2 WD", &D, &D, &D, &D,
  DAY-SCHEDULES
        "EL1 Bldg InsLt S1 WEH", &D, &D, "EL1 Bldg InsLt S1 HDD" )
"EL1 Bldg OffEq S1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg OffEq S1 WD", &D, &D, &D,
        "EL1 Bldg OffEq S1 WEH", &D, &D, "EL1 Bldg OffEq S1 HDD" )
"EL1 Bldg OffEq S2 Wk" = WEEK-SCHEDULE-PD
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TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg OffEq S2 WD", &D, &D, &D,
        "EL1 Bldg OffEq S2 WEH", &D, &D, "EL1 Bldg OffEq S1 HDD" )
   . .
"Ext Lighting Wk1" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "Ext Lighting W1 All" )
"Ext Lighting Wk2" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "Ext Lighting W2 All" )
  . .
"Ext Lighting Wk5" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "Ext Lighting W5 All" )
"Ext Lighting Wk8" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "Ext Lighting W8 All" )
  . .
"DHW Eqp NRes Wk1" = WEEK-SCHEDULE-PD
  TYPE
                  = FRACTION
  DAY-SCHEDULES = ( "DHW Eqp NRes W1 WD", &D, &D, &D,
        "DHW Eqp NRes W1 WEH", &D, &D, "DHW Eqp NRes W1 HDD" )
"DHW Eqp NRes Wk2" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
  DAY-SCHEDULES = ( "DHW Eqp NRes W2 WD", &D, &D, &D,
        "DHW Eqp NRes W1 WEH", &D, &D, "DHW Eqp NRes W1 HDD" )
   . .
"ZGO-S1 (PSZ) P-Inf S1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = MULTIPLIER
  DAY-SCHEDULES
                   = ( "ZGO-S1 (PSZ) P-Inf S1 WD", &D, &D, &D, &D,
        "ZGO-S1 (PSZ) P-Inf S1 WEH", &D, &D, "ZGO-S1 (PSZ) P-Inf S1 HDD" )
"ZGO-S1 (PSZ) P-Inf S2 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = MULTIPLIER
  DAY-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S2 WD", &D, &D, &D,
        "ZGO-S1 (PSZ) P-Inf S1 WEH", &D, &D, "ZGO-S1 (PSZ) P-Inf S1 HDD" )
"ZGO-S1 (PSZ) C-Inf S1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                   = FRACTION
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DAY-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 WD", &D, &D, &D,
        "ZGO-S1 (PSZ) C-Inf S1 WEH" )
"S1 Sys1 (PSZ) Fan S1 Wk" = WEEK-SCHEDULE-PD
        = ON/OFF/FLAG
  TYPE
  DAY-SCHEDULES = ( "S1 Sys1 (PSZ) Fan S1 WD", &D, &D, &D,
        "S1 Sys1 (PSZ) Fan S1 WEH" )
"S1 Sys1 (PSZ) Cool S1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = TEMPERATURE
  DAY-SCHEDULES = ( "S1 Sys1 (PSZ) Cool S1 WD", &D, &D, &D,
        "S1 Sys1 (PSZ) Cool S1 WEH" )
"S1 Sys1 (PSZ) Heat S1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = TEMPERATURE
  DAY-SCHEDULES = ( "S1 Sys1 (PSZ) Heat S1 WD", &D, &D, &D, &D,
        "S1 Sys1 (PSZ) Heat S1 WEH" )
"EL1 Bldg InsLt S1n1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg InsLt S1n1 WD", &D, &D, &D,
        "EL1 Bldg InsLt S1n1 WEH", &D, &D, "EL1 Bldg InsLt S1n1 HDD" )
"EL1 Bldg InsLt S2n1 Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg InsLt S2n1 WD", &D, &D, &D,
        "EL1 Bldg InsLt S1n1 WEH", &D, &D, "EL1 Bldg InsLt S1n1 HDD" )
"EL1 Bldg InsLt S1n2 Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg InsLt S1n2 WD", &D, &D, &D,
        "EL1 Bldg InsLt S1n2 WEH", &D, &D, "EL1 Bldg InsLt S1n2 HDD" )
"EL1 Bldg InsLt S2n2 Wk" = WEEK-SCHEDULE-PD
  TYPE
                 = FRACTION
  DAY-SCHEDULES = ( "EL1 Bldg InsLt S2n2 WD", &D, &D, &D,
        "EL1 Bldg InsLt S1n2 WEH", &D, &D, "EL1 Bldg InsLt S1n2 HDD" )
  . .
$ -----
$
            Annual Schedules
$ -----
```

```
"019 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                 = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajSD Bldg Occup Wk" )
  . .
"027 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajDD Bldg Occup Wk" )
"379 Bldg Occup Sch" = SCHEDULE-PD
         = FRACTION
  TYPE
                = (12)
  MONTH
                = (31)
  DAY
  WEEK-SCHEDULES = ( "MajSD Bldg Occup Wk" )
  . .
"437 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "Min1 Bldg Occup Wk" )
  . .
"625 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
                = (12)
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "MajDD Bldg Occup Wk" )
  . .
"634 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                 = FRACTION
                = (12)
  MONTH
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "MajDD Bldg Occup Wk" )
  . .
"718 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajDD Bldg Occup Wk" )
```

```
"730 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajSD Bldg Occup Wk" )
  . .
"731 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajDD Bldg Occup Wk" )
"834 Bldg Occup Sch" = SCHEDULE-PD
         = FRACTION
  TYPE
                = (12)
  MONTH
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajSD Bldg Occup Wk" )
  . .
"845 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajDD Bldg Occup Wk" )
  . .
"913 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
                = ( 31 )
  WEEK-SCHEDULES = ( "MajSD Bldg Occup Wk" )
  . .
"SST Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
               = (12)
  MONTH
               = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "EL1 Bldg Occup S1 Wk" )
  . .
"019 Bldg InsLt Cor Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "019 Bldg InsLt Cor Wk" )
```

```
"019 Bldg InsLt Prm Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
                = ( 31 )
  WEEK-SCHEDULES = ( "019 Bldg InsLt Per Wk" )
  . .
"027 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "027 Bldg InsLt Wk" )
"379 Bldg InsLt Cor Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
               = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "379 Bldg InsLt Cor Wk" )
  . .
"379 Bldg InsLt Prm Sch" = SCHEDULE-PD
  TYPE = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "379 Bldg InsLt Per Wk" )
  . .
"437 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
         = FRACTION
  TYLE
MONTH
               = (12)
                = ( 31 )
  WEEK-SCHEDULES = ( "437 Bldg InsLt Wk" )
  . .
"625 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
                = (12)
  MONTH
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "MajDD Bldg InsLt Wk" )
  . .
"634 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "MajDD Bldg InsLt Wk" )
```

```
"718 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajDD Bldg InsLt Wk" )
  . .
"730 Bldg InsLt Cor Sch" = SCHEDULE-PD
                = FRACTION
  TYPE
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "730 Bldg InsLt Cor Wk" )
  • •
"730 Bldg InsLt Prm Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
               = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "730 Bldg InsLt Per Wk" )
  . .
"731 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "MajDD Bldg InsLt Wk" )
  . .
"834 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
         = FRACTION
  MONTH
               = (12)
                = ( 31 )
  WEEK-SCHEDULES = ( "834 Bldg InsLt Wk" )
  . .
"845 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
                = (12)
  MONTH
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "MajDD Bldg InsLt Wk" )
  . .
"913 Bldg InsLt Cor Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "913 Bldg InsLt Cor Wk" )
```

```
"913 Bldg InsLt Prm Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
                = ( 31 )
  WEEK-SCHEDULES = ( "913 Bldg InsLt Per Wk" )
  . .
"SST Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "EL1 Bldg InsLt S1 Wk" )
  . .
"SST Bldg InsLt n1 Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
               = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "EL1 Bldg InsLt S1n1 Wk" )
  . .
"SST Bldg InsLt n2 Sch" = SCHEDULE-PD
  TYPE = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "EL1 Bldg InsLt S1n2 Wk" )
  • •
"019 Bldg OffEq Cor Sch" = SCHEDULE-PD
  TYPE
         = FRACTION
  MONTH
               = (12)
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "019 Bldg OffEq Cor Wk" )
  . .
"019 Bldg OffEq Prm Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "019 Bldg OffEq Per Wk" )
  . .
"027 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "027 Bldg OffEq Wk" )
```

```
"027 Bldg Misc Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = ( 12 )
                = ( 31 )
  WEEK-SCHEDULES = ( "027 Bldg Misc Wk" )
  . .
"379 Bldg OffEq Cor Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "379 Bldg OffEq Cor Wk" )
"379 Bldg OffEq Prm Sch" = SCHEDULE-PD
                = FRACTION
  TYPE
               = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "379 Bldg OffEq Per Wk" )
  . .
"437 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE = FRACTION
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "437 Bldg OffEq Wk" )
  . .
"625 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
         = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "625 Bldg OffEq Wk" )
  . .
"634 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
               = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "634 Bldg OffEq Wk" )
  . .
"634 Bldg Misc Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "634 Bldg Misc Wk" )
```

```
"718 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
               = ( 31 )
  WEEK-SCHEDULES = ( "718 Bldg OffEq Wk" )
  . .
"730 Bldg OffEq Cor Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "730 Bldg OffEq Cor Wk" )
"730 Bldg OffEq Prm Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
               = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "730 Bldg OffEq Per Wk" )
  . .
"731 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "731 Bldg OffEq Wk" )
  . .
"834 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
         = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "834 Bldg OffEq Wk" )
  . .
"845 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "845 Bldg OffEq Wk" )
  . .
"845 Bldg Misc Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "845 Bldg Misc Wk" )
```

```
"913 Bldg OffEq Cor Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "913 Bldg OffEq Cor Wk" )
  . .
"913 Bldg OffEq Prm Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "913 Bldg OffEq Per Wk" )
"SST Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
                = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "EL1 Bldg OffEq S1 Wk" )
  . .
"019 GndCor Sys1 Infil Sch" = SCHEDULE-PD
  TYPE = MULTIPLIER
  MONTH
               = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "GndCor Sys1 Infil 1/0 W1" )
"027 ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE = FRACTION
  MONTH
               = (12)
                = ( 31 )
  WEEK-SCHEDULES = ( "027 ZGO-S1 (PSZ) C-Inf Wk" )
  . .
"027 ZG4-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
               = (12)
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "027 ZG4-S1 (PSZ) C-Inf Wk" )
"379 GndCor Sys1 Infil Sch" = SCHEDULE-PD
                = MULTIPLIER
  TYPE
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "GndCor Sys1 Infil 1/0 W1" )
```

```
"437 ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
                 = MULTIPLIER
  TYPE
  MONTH
                 = (12)
  DAY
                 = ( 31 )
  WEEK-SCHEDULES = ( "437 ZGO-S1 (PSZ) P-Inf Wk" )
  . .
"437 ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                 = FRACTION
                 = (12)
  MONTH
                 = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 Wk" )
"625 ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
  TYPE
                 = MULTIPLIER
  MONTH
                 = (12)
                 = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S1 Wk" )
  . .
"625 ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                 = FRACTION
  MONTH
                 = (12)
  DAY
                 = ( 31 )
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 Wk" )
"634 ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
  TYPE
                 = MULTIPLIER
  MONTH
                 = (12)
  DAY
                 = ( 31 )
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S1 Wk" )
  . .
"634 ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                 = FRACTION
                 = ( 12 )
  MONTH
  DAY
                 = ( 31 )
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 Wk" )
  . .
"718 ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
                 = MULTIPLIER
  TYPE
  MONTH
                 = (12)
  DAY
                 = ( 31 )
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S1 Wk" )
```

```
"730 GndCor Sys1 Infil Sch" = SCHEDULE-PD
  TYPE
                 = MULTIPLIER
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "GndCor Sys1 Infil 1/0 W1" )
"731 ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
  TYPE
                = MULTIPLIER
                = (12)
  MONTH
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S1 Wk" )
"731 ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
                = (12)
  MONTH
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 Wk" )
  . .
"834 GndCor Sys1 Infil Sch" = SCHEDULE-PD
  TYPE
         = MULTIPLIER
  MONTH
                = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "GndCor Sys1 Infil 1/0 W1" )
"845 ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
  TYPE
         = MULTIPLIER
  MONTH
                = (12)
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S1 Wk" )
  . .
"845 ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
                = (12)
                = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 Wk" )
"913 GndCor Sys1 Infil Sch" = SCHEDULE-PD
                = MULTIPLIER
  TYPE
  MONTH
                = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "GndCor Sys1 Infil 1/0 W1" )
```

```
"SST ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
  TYPE
                = MULTIPLIER
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S1 Wk" )
"SST ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
               = ( 12 )
  MONTH
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 Wk" )
"MajDD Sys1 (PSZ) Heat Sch" = SCHEDULE-PD
  TYPE
               = TEMPERATURE
               = (12)
  MONTH
  DAY = (31)
  WEEK-SCHEDULES = ( "S1 Sys1 (PSZ) Heat S1 Wk" )
  . .
"MajSD GndCor Sys1 Heat Sch" = SCHEDULE-PD
         = TEMPERATURE
  TYPE
  MONTH
              = (12)
  DAY
                = ( 31 )
  WEEK-SCHEDULES = ( "GndCor Sys1 Heat 1/0 W1" )
  . .
"027 Sys1 (PSZ) Heat Sch" = SCHEDULE-PD
  TYPE = TEMPERATURE
  MONTH
               = (12)
                = ( 31 )
  WEEK-SCHEDULES = ( "027 S1 Sys1 (PSZ) Heat Wk" )
  . .
"MajDD Sys1 (PSZ) Cool Sch" = SCHEDULE-PD
                = TEMPERATURE
  TYPE
               = (12)
  MONTH
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "S1 Sys1 (PSZ) Cool S1 Wk" )
  . .
"MajSD GndCor Sys1 Cool Sch" = SCHEDULE-PD
  TYPE
                = TEMPERATURE
  MONTH
               = (12)
        = ( 31 )
  DAY
  WEEK-SCHEDULES = ( "GndCor Sys1 Cool 1/0 W1" )
```
```
"027 Sys1 (PSZ) Cool Sch" = SCHEDULE-PD
  TYPE
                = TEMPERATURE
  MONTH
V A M
              = ( 12 )
               = ( 31 )
  WEEK-SCHEDULES = ( "027 S1 Sys1 (PSZ) Cool Wk" )
  . .
"027 S1 Sys1 (PSZ) Fan Sch" = SCHEDULE-PD
               = ON/OFF/FLAG
  TYPE
  MONTH
               = (12)
  DAY
               = ( 31 )
  WEEK-SCHEDULES = ( "027 S1 Sys1 (PSZ) Fan Wk" )
  . .
"027 S5 Sys5 (PSZ) Fan Sch" = SCHEDULE-PD
  TYPE
         = ON/OFF/FLAG
               = (12)
  MONTH
  DAY = (31)
  WEEK-SCHEDULES = ( "027 S5 Sys5 (PSZ) Fan Wk" )
  . .
"027 DHW Eqp NRes Sch" = SCHEDULE-PD
  TYPE = FRACTION
  MONTH
               = (12)
  DAY = (31)
  WEEK-SCHEDULES = ( "027 DHW Eqp NRes Wk" )
"437 DHW Eqp NRes Sch" = SCHEDULE-PD
        = FRACTION
  TYPE
  MONTH
DAY
               = (12)
               = ( 31 )
  WEEK-SCHEDULES = ( "437 DHW Eqp NRes Wk" )
  . .
"MajDD DHW Eqp NRes Sch" = SCHEDULE-PD
  TYPE
                = FRACTION
  MONTH
אַאַר
              = ( 12 )
               = ( 31 )
  WEEK-SCHEDULES = ( "DHW Eqp NRes Wk1" )
  . .
"S1 EL1 Sys1 (PMZS) (G) CRS" = SCHEDULE-PD
  TYPE
                = RESET-TEMP
  MONTH
               = (12)
  DAY
        = ( 31 )
  WEEK-SCHEDULES = ( "S1 EL1 Sys1 (PMZS) (G) CRS-W" )
```

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```
"EL1 Bldg Occup Sch" = SCHEDULE-PD
  TYPE
                   = FRACTION
  MONTH
                  = (5, 8, 12)
  DAY
                   = (31, 31, 31)
  WEEK-SCHEDULES = ( "EL1 Bldg Occup S1 Wk", "EL1 Bldg Occup S2 Wk",
        "EL1 Bldg Occup S1 Wk" )
"EL1 Bldg InsLt Sch" = SCHEDULE-PD
  TYPE
                   = FRACTION
  MONTH
                   = (5, 8, 12)
                  = ( 31, 31, 31 )
  DAY
  WEEK-SCHEDULES = ( "EL1 Bldg InsLt S1 Wk", "EL1 Bldg InsLt S2 Wk",
        "EL1 Bldg InsLt S1 Wk" )
"EL1 Bldg OffEq Sch" = SCHEDULE-PD
  TYPE
                   = FRACTION
  MONTH
                   = (5, 8, 12)
                   = (31, 31, 31)
  DAY
  WEEK-SCHEDULES = ( "EL1 Bldg OffEq S1 Wk", "EL1 Bldg OffEq S2 Wk",
        "EL1 Bldg OffEq S1 Wk" )
   . .
"Ext Lighting Sch" = SCHEDULE-PD
  TYPE
                   = FRACTION
                   = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)
  MONTH
                  = (31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31)
  DAY
  WEEK-SCHEDULES = ( "Ext Lighting Wk1", "Ext Lighting Wk2",
        "Ext Lighting Wk2", "Ext Lighting Wk2", "Ext Lighting Wk5",
        "Ext Lighting Wk5", "Ext Lighting Wk5", "Ext Lighting Wk8",
        "Ext Lighting Wk8", "Ext Lighting Wk8", "Ext Lighting Wk1",
        "Ext Lighting Wk1" )
"DHW Eqp NRes Sch" = SCHEDULE-PD
  TYPE
                   = FRACTION
                  = (5, 8, 12)
  MONTH
                  = (31, 31, 31)
  DAY
  WEEK-SCHEDULES = ( "DHW Eqp NRes Wk1", "DHW Eqp NRes Wk2",
        "DHW Eqp NRes Wk1" )
"ZGO-S1 (PSZ) P-Inf Sch" = SCHEDULE-PD
  TYPE
                   = MULTIPLIER
```

```
MONTH
                   = (5, 8, 12)
  DAY
                  = (31, 31, 31)
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) P-Inf S1 Wk",
        "ZGO-S1 (PSZ) P-Inf S2 Wk", "ZGO-S1 (PSZ) P-Inf S1 Wk" )
"ZGO-S1 (PSZ) C-Inf Sch" = SCHEDULE-PD
  TYPE
                  = FRACTION
  MONTH
                  = (5, 8, 12)
  DAY
                  = (31, 31, 31)
  WEEK-SCHEDULES = ( "ZGO-S1 (PSZ) C-Inf S1 Wk",
        "ZGO-S1 (PSZ) C-Inf S1 Wk", "ZGO-S1 (PSZ) C-Inf S1 Wk" )
  . .
"S1 Sys1 (PSZ) Fan Sch" = SCHEDULE-PD
  TYPE
                  = ON/OFF/FLAG
                  = (5, 8, 12)
  MONTH
                  = (31, 31, 31)
  DAY
  WEEK-SCHEDULES = ( "S1 Sys1 (PSZ) Fan S1 Wk", "S1 Sys1 (PSZ) Fan S1 Wk",
        "S1 Sys1 (PSZ) Fan S1 Wk" )
"S1 Sys1 (PSZ) Cool Sch" = SCHEDULE-PD
  TYPE
                  = TEMPERATURE
  MONTH
                 = (5, 8, 12)
                 = (31, 31, 31)
  DAY
  WEEK-SCHEDULES = ( "S1 Sys1 (PSZ) Cool S1 Wk",
        "S1 Sys1 (PSZ) Cool S1 Wk", "S1 Sys1 (PSZ) Cool S1 Wk" )
"S1 Sys1 (PSZ) Heat Sch" = SCHEDULE-PD
  TYPE
                  = TEMPERATURE
  MONTH
                 = (5, 8, 12)
                  = ( 31, 31, 31 )
  DAY
  WEEK-SCHEDULES = ( "S1 Sys1 (PSZ) Heat S1 Wk",
        "S1 Sys1 (PSZ) Heat S1 Wk", "S1 Sys1 (PSZ) Heat S1 Wk" )
"EL1 Bldg InsLt n1 Sch" = SCHEDULE-PD
  TYPE
                  = FRACTION
                 = (5, 8, 12)
  MONTH
                  = (31, 31, 31)
  DAY
  WEEK-SCHEDULES = ( "EL1 Bldg InsLt S1n1 Wk", "EL1 Bldg InsLt S2n1 Wk",
        "EL1 Bldg InsLt S1n1 Wk" )
"EL1 Bldg InsLt n2 Sch" = SCHEDULE-PD
  TYPE
                  = FRACTION
```

```
MONTH
                = (5, 8, 12)
                = (31, 31, 31)
  DAY
  WEEK-SCHEDULES
               = ( "EL1 Bldg InsLt S1n2 Wk", "EL1 Bldg InsLt S2n2 Wk",
       "EL1 Bldg InsLt S1n2 Wk" )
  . .
      _____
$ ---
$
            Polygons
$ ------
"EL1 Floor Polygon" = POLYGON
  V1
                = (31.25, 21.5)
  V2
                = (41.25, 21.5)
                = (41.25, 18.5)
  VЗ
                = (92.75, 18.5)
  V4
                = (92.75, 21.5)
  V5
  V6
                = (110.75, 21.5)
  V7
                = (110.75, 37)
  V8
                = (92.75, 37)
  V9
                = (92.75, 67)
  V10
                = (75.25, 67)
  V11
                = (75.25, 59)
                = (62.75, 59)
  V12
  V13
                = ( 62.75, 67 )
  V14
                = (45.25, 67)
  V15
                = (45.25, 63)
  V16
                = (31.25, 63)
  . .
"EL1 Space Polygon 1" = POLYGON
                = (0, 0)
  V1
                = (14, 0)
  V2
                = (14, 12.5)
  VЗ
                = (4, 12.5)
  V4
  V5
                = (0, 12.5)
  . .
"EL1 Space Polygon 2" = POLYGON
  V1
                = (0, 0)
  V2
                = (8, 0)
  VЗ
                = (8, 17.5)
                = (4, 17.5)
  V4
  V5
                = (-2.55, 17.5)
```

```
V6
                  = (-2.55, 0)
  . .
"EL1 Space Polygon 3" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (8,0)
  VЗ
                  = (10.55, 0)
                  = (10.55, 17.5)
  V4
  V5
                  = (0, 17.5)
  . .
"EL1 Space Polygon 4" = POLYGON
                  = (0, 0)
  V1
                  = (6, 0)
  V2
  VЗ
                  = (6, 5.95)
  V4
                  = (6, 7.95)
  V5
                  = (0, 7.95)
  . .
"EL1 Space Polygon 5" = POLYGON
  V1
                  = (0, 0)
  V2
                  = (5.75, 0)
  VЗ
                  = (5.75, 6)
  V4
                  = (0, 6)
  . .
"EL1 Space Polygon 6" = POLYGON
                  = (0, 0)
  V1
                  = (15.5, 0)
  V2
                  = (15.5, 7.75)
  VЗ
  V4
                  = (0, 7.75)
  . .
"EL1 Space Polygon 7" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (18, 0)
  VЗ
                  = (18, 15.5)
  V4
                  = (0, 15.5)
  . .
"EL1 Space Polygon 8" = POLYGON
                  = (0, 0)
  V1
                  = (3, 0)
  V2
  VЗ
                  = (18.5, 0)
                  = (24.25, -0)
  V4
  V5
                  = (24.25, 21.5)
  V6
                  = (15.5, 21.5)
                  = (0, 21.5)
  V7
```

```
"EL1 Space Polygon 9" = POLYGON
                  = (0, 0)
  V1
                  = (6.5, 0)
  V2
                  = (6.5, 10.15)
  VЗ
  V4
                  = (0, 10.15)
  . .
"EL1 Space Polygon 10" = POLYGON
  V1
                  = (0, 0)
                  = (10.15, 0)
  V2
                  = (10.15, 9)
  VЗ
  V4
                  = (0, 9)
  . .
"EL1 Space Polygon 11" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (15.5, 0)
                  = (15.5, 0.3)
  VЗ
                  = (15.5, 12.2)
  V4
  V5
                  = (0, 12.2)
  . .
"EL1 Space Polygon 12" = POLYGON
  V1
                  = (0, 0)
  V2
                  = (10.45, 0)
  VЗ
                  = (10.45, 16.5)
                  = (0, 16.5)
  V4
  . .
"EL1 Space Polygon 13" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (7.65, 0)
  VЗ
                  = (7.65, 8.25)
  V4
                  = (0, 8.25)
  . .
"EL1 Space Polygon 14" = POLYGON
                  = ( 0, 0 )
  V1
  V2
                  = (3, 0)
                  = (3, 7.65)
  VЗ
                  = ( -4.25, 7.65 )
  V4
  V5
                  = (-4.25, 0)
  . .
"EL1 Space Polygon 15" = POLYGON
  V1
                  = (0, 0)
  V2
                  = (10, 0)
```

```
VЗ
                  = (10, 12.5)
                  = (0, 12.5)
  V4
  . .
"EL1 Space Polygon 16" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (16.5, 0)
                  = (16.5, 10)
  VЗ
  V4
                  = (0, 10)
  . .
"EL1 Space Polygon 17" = POLYGON
                  = (0, 0)
  V1
                  = (19.55, 0)
  V2
  VЗ
                  = (19.55, 16.5)
  V4
                  = (0, 16.5)
  . .
"EL1 Space Polygon 18" = POLYGON
  V1
                  = (0, 0)
  V2
                  = (12.5, 0)
  VЗ
                  = (12.5, 2.55)
  V4
                  = (30, 2.55)
                  = (30, 8.5)
  V5
  V6
                  = (14.45, 8.5)
  V7
                 = (-11.5, 8.5)
                 = (-11.5, 2.55)
  V8
                  = (0, 2.55)
  V9
  . .
"EL1 Space Polygon 1 - SMirro" = POLYGON
  V1
                  = (0, 0)
  V2
                  = (12.5, 0)
                  = (12.5, 4)
  VЗ
  V4
                  = (12.5, 14)
  V5
                  = (0, 14)
  . .
"EL1 Space Polygon 2 - SMirro" = POLYGON
                  = (0, 0)
  V1
                  = (0, -2.55)
  V2
                  = (17.5, -2.55)
  VЗ
  V4
                  = (17.5, 4)
                  = (17.5, 8)
  V5
  V6
                  = (0, 8)
  . .
"EL1 Space Polygon 3 - SMirro" = POLYGON
```

```
= (0, 0)
  V1
  V2
                  = (17.5, 0)
                  = (17.5, 10.55)
  VЗ
                 = (0, 10.55)
  V4
  V5
                  = (0,8)
  . .
"EL1 Space Polygon 4 - SMirro" = POLYGON
                  = (0, 0)
  V1
                  = (7.95, 0)
  V2
                  = (7.95, 6)
  VЗ
                  = (5.95, 6)
  V4
  V5
                  = (0, 6)
  . .
"EL1 Space Polygon 5 - SMirro" = POLYGON
  V1
                  = (0, 0)
  V2
                  = (6, 0)
                  = (6, 5.75)
  VЗ
                  = (0, 5.75)
  V4
  . .
"EL1 Space Polygon 6 - SMirro" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (7.75, 0)
                  = (7.75, 15.5)
  VЗ
                  = (0, 15.5)
  V4
  . .
"EL1 Space Polygon 7 - SMirro" = POLYGON
                  = (0, 0)
  V1
                  = (15.5, 0)
  V2
  VЗ
                  = (15.5, 18)
                  = (0, 18)
  V4
  . .
"EL1 Space Polygon 8 - SMirro" = POLYGON
                  = ( 0, 0 )
  V1
                  = (21.5, 0)
  V2
  VЗ
                  = (21.5, 15.5)
                  = (21.5, 24.25)
  V4
                  = (-0, 24.25)
  V5
                  = (0, 18.5)
  V6
                  = (0, 3)
  V7
  . .
"EL1 Space Polygon 9 - SMirro" = POLYGON
  V1
                  = (0, 0)
```

```
V2
                  = (10.15, 0)
  VЗ
                  = (10.15, 6.5)
                  = (0, 6.5)
  V4
  . .
"EL1 Space Polygon 10 - SMirro" = POLYGON
  V1
                  = (0, 0)
                  = (9, 0)
  V2
  VЗ
                  = (9, 10.15)
                  = (0, 10.15)
  V4
  . .
"EL1 Space Polygon 11 - SMirro" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (12.2, 0)
  VЗ
                  = (12.2, 15.5)
                  = (0.3, 15.5)
  V4
  V5
                  = (0, 15.5)
  . .
"EL1 Space Polygon 12 - SMirro" = POLYGON
  V1
                  = (0, 0)
  V2
                  = (16.5, 0)
  VЗ
                  = (16.5, 10.45)
  V4
                  = (0, 10.45)
  . .
"EL1 Space Polygon 13 - SMirro" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (8.25, 0)
  VЗ
                  = (8.25, 7.65)
  V4
                  = (0, 7.65)
  . .
"EL1 Space Polygon 14 - SMirro" = POLYGON
                  = (0, 0)
  V1
  V2
                  = (0, -4.25)
  VЗ
                  = (7.65, -4.25)
                  = (7.65, 3)
  V4
  V5
                  = (0, 3)
  . .
"EL1 Space Polygon 15 - SMirro" = POLYGON
  V1
                  = (0, 0)
                  = (12.5, 0)
  V2
  VЗ
                  = (12.5, 10)
                  = ( 0, 10 )
  V4
  . .
```

```
"EL1 Space Polygon 16 - SMirro" = POLYGON
            = (0, 0)
 V1
            = (10, 0)
 V2
            = (10, 16.5)
 VЗ
            = (0, 16.5)
 V4
 . .
"EL1 Space Polygon 17 - SMirro" = POLYGON
            = (0, 0)
 V1
            = (16.5, 0)
 V2
            = (16.5, 19.55)
 VЗ
            = (0, 19.55)
 V4
 . .
"EL1 Space Polygon 18 - SMirro" = POLYGON
 V1
            = (0, 0)
            = ( 2.55, 0 )
 V2
            = (2.55, -11.5)
 VЗ
            = (8.5, -11.5)
 V4
            = (8.5, 14.45)
 V5
 V6
           = (8.5, 30)
 V7
           = (2.55, 30)
           = (2.55, 12.5)
 V8
            = (0, 12.5)
 V9
 . .
$ -----
$
        Wall Parameters
$ -----
$ ------
$
        Fixed and Building Shades
$ -----
$ -----
$
        Misc Cost Related Objects
$ ------
```

"Baseline Data" = BASELINE

```
. .
$ **
                                              **
        Floors / Spaces / Walls / Windows / Doors
$ **
                                              **
$ **
                                              **
"EL1 Ground Flr" = FLOOR
  AZIMUTH
               = 90
              = "EL1 Floor Polygon"
  POLYGON
               = POLYGON
  SHAPE
tagHEI
  C-DIAGRAM-DATA = *Bldg Envelope & Loads 1 Diag Data*
  . .
"C117 Conference (G.NE1)" = SPACE
          = POLYGON
  SHAPE
tagC117ZTY
tagC117PSC
tagC117LSC
tagC117ESC
tagC117ISC
tagC117IME
tagC117IFA
tagC117PHL
tagC117PHS
tagC117NOP
tagC117LWA
tagC117EWA
tagC117APE
  POLYGON
               = "EL1 Space Polygon 1"
              = FLOOR-V15
  LOCATION
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
  . .
"EL1 East Wall (G.NE1.E1)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
tagC117Ewin
"EL1 North Wall (G.NE1.E2)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
   . .
tagC117Nwin
"EL1 West Wall (G.NE1.I1)" = INTERIOR-WALL
  NEXT-TO = "C102 Reception (G.C17)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
tagC117CEI
"EL1 Flr (G.NE1.U1)" = UNDERGROUND-WALL
   CONSTRUCTION = "EL1 UFCons (G.NE1.U2)"
  LOCATION = BOTTOM
   . .
"C116 Principal (G.ESE2)" = SPACE
  SHAPE
                    = POLYGON
tagC116ZTY
tagC116PSC
tagC116LSC
tagC116ESC
tagC116ISC
tagC116IME
tagC116IFA
tagC116PHL
tagC116PHS
tagC116NOP
tagC116LWA
tagC116EWA
tagC116APE
  POLYGON
                  = "EL1 Space Polygon 2"
  LOCATION = FLOOR-V12
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 South Wall (G.ESE2.E3)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V1
   SHADING-SURFACE = YES
   . .
tagC116Swin
"EL1 East Wall (G.ESE2.E4)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 EWall Construction"
   LOCATION
                   = SPACE-V2
   SHADING-SURFACE = YES
   . .
tagC116Ewin
"EL1 North Wall (G.ESE2.E5)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 EWall Construction"
   LOCATION = SPACE-V3
   SHADING-SURFACE = YES
"EL1 North Wall (G.ESE2.I3)" = INTERIOR-WALL
  NEXT-TO = "C117 Conference (G.NE1)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
tagC116CEI
"EL1 Flr (G.ESE2.U2)" = UNDERGROUND-WALL
   CONSTRUCTION = "EL1 UFCons (G.ESE2.U3)"
   LOCATION = BOTTOM
   . .
"C114 Multiuse Office (G.E3)" = SPACE
   SHAPE
                     = POLYGON
tagC114ZTY
tagC114PSC
tagC114LSC
tagC114ESC
tagC114ISC
tagC114IME
tagC114IFA
tagC114PHL
tagC114PHS
tagC114NOP
tagC114LWA
tagC114EWA
tagC114APE
   POLYGON
                     = "EL1 Space Polygon 3"
```

```
LOCATION = FLOOR-V10
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 North Wall (G.E3.E6)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
tagC114Nwin
"EL1 South Wall (G.E3.E7)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
tagC114Swin
"EL1 East Wall (G.E3.E8)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
tagC114Ewin
tagC114CEI
"EL1 Flr (G.E3.U3)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.E3.U4)"
  LOCATION
                 = BOTTOM
  . .
"C111 Custodian(G.S4)" = SPACE
  Х
                  = 92.75
  Y
                  = 56.45
  AZIMUTH
                 = 180
                  = POLYGON
  SHAPE
tagC111ZTY
tagC111PSC
tagC111LSC
tagC111ESC
tagC111ISC
tagC111IME
tagC111IFA
tagC111PHL
tagC111PHS
```

```
tagC111NOP
tagC111LWA
tagC111EWA
tagC111APE
  POLYGON = "EL1 Space Polygon 4"
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
  . .
"EL1 South Wall (G.S4.E9)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
tagC111Swin
"EL1 East Wall (G.S4.I6)" = INTERIOR-WALL
  NEXT-TO = "C114 Multiuse Office (G.E3)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 North Wall (G.S4.I7)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Toilets (G.C6)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 West Wall (G.S4.I8)" = INTERIOR-WALL
  NEXT-TO = "C110 Riser (G.S5)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
tagC111CEI
"EL1 Flr (G.S4.U4)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.S4.U5)"
  LOCATION = BOTTOM
"C110 Riser (G.S5)" = SPACE
                 = 92.75
  Х
                 = 42.75
  Y
                 = -90
  AZIMUTH
                 = POLYGON
  SHAPE
tagC110ZTY
tagC110PSC
```

```
tagC110LSC
tagC110ESC
tagC110ISC
tagC110IME
tagC110IFA
tagC110PHL
tagC110PHS
tagC110NOP
tagC110LWA
tagC110EWA
tagC110APE
  POLYGON = "EL1 Space Polygon 5"
   C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
   C-ACTIVITY-DESC = *Office (General)*
"EL1 South Wall (G.S5.E10)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 EWall Construction"
   LOCATION
                  = SPACE-V1
   SHADING-SURFACE = YES
   . .
tagC110Swin
"EL1 North Wall (G.S5.I10)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Toilets (G.C6)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 West Wall (G.S5.I11)" = INTERIOR-WALL
  NEXT-TO = "C108 Staff Lounge (G.WSW8)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
tagC110CEI
"EL1 Flr (G.S5.U5)" = UNDERGROUND-WALL
   CONSTRUCTION = "EL1 UFCons (G.S4.U5)"
   LOCATION = BOTTOM
   . .
"C112 C113 Toilets (G.C6)" = SPACE
                   = 71.25
   Х
   Y
                   = 42.75
   SHAPE
                   = POLYGON
tagC112ZTY
```

```
tagC112PSC
tagC112LSC
tagC112ESC
tagC112ISC
tagC112IME
tagC112IFA
tagC112PHL
tagC112PHS
tagC112NOP
tagC112LWA
tagC112EWA
tagC112APE
  POLYGON = "EL1 Space Polygon 6"
   C-SUB-SRC-BTUH = (0, 0, 0)
   C-SUB-SRC-KW = (0, 0, 0)
   C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 West Wall (G.C6.I13)" = INTERIOR-WALL
   NEXT-TO = "C108 Staff Lounge (G.WSW8)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
   . .
"EL1 East Wall (G.C6.I14)" = INTERIOR-WALL
  NEXT-TO = "C115 Foyer (G.E18)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C6.I15)" = INTERIOR-WALL
  NEXT-TO = "minifoyer (G.C12)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
tagC112CEI
"EL1 Flr (G.C6.U6)" = UNDERGROUND-WALL
   CONSTRUCTION = "EL1 UFCons (G.C6.U7)"
  LOCATION = BOTTOM
   . .
"C109 Workroom (G.S7)" = SPACE
                  = POLYGON
   SHAPE
tagC109ZTY
tagC109PSC
tagC109LSC
```

```
tagC109ESC
tagC109ISC
tagC109IME
tagC109IFA
tagC109PHL
tagC109PHS
tagC109NOP
tagC109LWA
tagC109EWA
tagC109APE
                 = "EL1 Space Polygon 7"
  POLYGON
  LOCATION = FLOOR-V7
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
"EL1 East Wall (G.S7.E11)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
   . .
tagC109Ewin
"EL1 West Wall (G.S7.E12)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
   . .
tagC109Wwin
"EL1 South Wall (G.S7.E13)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
   . .
tagC109Swin
tagC109CEI
"EL1 Flr (G.S7.U7)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.S7.U8)"
  LOCATION
                = BOTTOM
   . .
"C108 Staff Lounge (G.WSW8)" = SPACE
  SHAPE
                  = POLYGON
tagC108ZTY
```

```
tagC108PSC
tagC108LSC
tagC108ESC
tagC108ISC
tagC108IME
tagC108IFA
tagC108PHL
tagC108PHS
tagC108NOP
tagC108LWA
tagC108EWA
tagC108APE
                  = "EL1 Space Polygon 8"
  POLYGON
  LOCATION
                  = FLOOR-V4
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 South Wall (G.WSW8.E14)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
tagC108swin
"EL1 South Wall (G.WSW8.E15)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
tagC108Swin
"EL1 West Wall (G.WSW8.E16)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V7
  SHADING-SURFACE = YES
   . .
tagC108Wwin
"EL1 South Wall (G.WSW8.I18)" = INTERIOR-WALL
  NEXT-TO = "C109 Workroom (G.S7)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
   . .
"EL1 North Wall (G.WSW8.I19)" = INTERIOR-WALL
```

```
NEXT-TO
                   = "minifoyer (G.C12)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
tagC108CEI
"EL1 Flr (G.WSW8.U8)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.WSW8.U9)"
  LOCATION
                 = BOTTOM
   . .
"C106 Elec (G.W9)" = SPACE
                  = 71.25
  Х
  Y
                  = 18.5
                 = -90
  AZIMUTH
  SHAPE
                  = POLYGON
tagC106ZTY
tagC106PSC
tagC106LSC
tagC106ESC
tagC106ISC
tagC106IME
tagC106IFA
tagC106PHL
tagC106PHS
tagC106NOP
tagC106LWA
tagC106EWA
tagC106APE
  POLYGON = "EL1 Space Polygon 9"
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
"EL1 West Wall (G.W9.E17)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
   . .
tagC106Wwin
"EL1 South Wall (G.W9.I21)" = INTERIOR-WALL
  NEXT-TO = "C108 Staff Lounge (G.WSW8)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
```

```
"EL1 East Wall (G.W9.I22)" = INTERIOR-WALL
  NEXT-TO = "C107 Data (G.C10)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 North Wall (G.W9.I23)" = INTERIOR-WALL
  NEXT-TO = "C105 Nurse (G.W11)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
tagC106CEI
"EL1 Flr (G.W9.U9)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.W9.U10)"
  LOCATION = BOTTOM
  . .
"C107 Data (G.C10)" = SPACE
                 = 61.1
  Х
  Y
                  = 25
  SHAPE
                 = POLYGON
tagC107ZTY
tagC107PSC
tagC107LSC
tagC107ESC
tagC107ISC
tagC107IME
tagC107IFA
tagC107PHL
tagC107PHS
tagC107NOP
tagC107LWA
tagC107EWA
tagC107APE
  POLYGON = "EL1 Space Polygon 10"
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
  . .
"EL1 South Wall (G.C10.I25)" = INTERIOR-WALL
  NEXT-TO = "C108 Staff Lounge (G.WSW8)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
```

```
"EL1 East Wall (G.C10.I26)" = INTERIOR-WALL
  NEXT-TO = "minifoyer (G.C12)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 North Wall (G.C10.I27)" = INTERIOR-WALL
  NEXT-TO = "C105 Nurse (G.W11)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
tagC107CEI
"EL1 Flr (G.C10.U10)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.C6.U7)"
  LOCATION = BOTTOM
  . .
"C105 Nurse (G.W11)" = SPACE
                = 61.1
  Х
  Y
                 = 18.5
  AZIMUTH
                = -90
  SHAPE
                = POLYGON
tagC105ZTY
tagC105PSC
tagC105LSC
tagC105ESC
tagC105ISC
tagC105IME
tagC105IFA
tagC105PHL
tagC105PHS
tagC105NOP
tagC105LWA
tagC105EWA
tagC105APE
  POLYGON = "EL1 Space Polygon 11"
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 West Wall (G.W11.E18)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
```

```
SHADING-SURFACE = YES
   . .
tagC105Wwin
"EL1 East Wall (G.W11.I29)" = INTERIOR-WALL
  NEXT-TO = "minifoyer (G.C12)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
   . .
"EL1 East Wall (G.W11.I30)" = INTERIOR-WALL
   NEXT-TO = "C102 Reception (G.C17)"
   CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
tagC105CEI
"EL1 Flr (G.W11.U11)" = UNDERGROUND-WALL
   CONSTRUCTION = "EL1 UFCons (G.W11.U12)"
   LOCATION = BOTTOM
   . .
"minifoyer (G.C12)" = SPACE
   Х
                   = 60.8
   Y
                   = 34
   SHAPE
                   = POLYGON
tagC118ZTY
tagC118PSC
tagC118LSC
tagC118ESC
tagC118ISC
tagC118IME
tagC118IFA
tagC118PHL
tagC118PHS
tagC118NOP
tagC118LWA
tagC118EWA
tagC118APE
            = "EL1 Space Polygon 12"
   POLYGON
   C-SUB-SRC-BTUH = (0, 0, 0)
   C-SUB-SRC-KW = (0, 0, 0)
   C-ACTIVITY-DESC = *Office (General)*
"EL1 East Wall (G.C12.I32)" = INTERIOR-WALL
   NEXT-TO
                    = "C115 Foyer (G.E18)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C12.I33)" = INTERIOR-WALL
  NEXT-TO = "C102 Reception (G.C17)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
tagC118CEI
"EL1 Flr (G.C12.U12)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.C6.U7)"
  LOCATION = BOTTOM
   . .
"C103 Record Storage (G.C13)" = SPACE
                 = 41.25
  Х
  Y
                   = 25.75
                   = POLYGON
  SHAPE
tagC103ZTY
tagC103PSC
tagC103LSC
tagC103ESC
tagC103ISC
tagC103IME
tagC103IFA
tagC103PHL
tagC103PHS
tagC103NOP
tagC103LWA
tagC103EWA
tagC103APE
  POLYGON = "EL1 Space Polygon 13"
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
"EL1 South Wall (G.C13.I35)" = INTERIOR-WALL
  NEXT-TO = "C105 Nurse (G.W11)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
   . .
"EL1 East Wall (G.C13.I36)" = INTERIOR-WALL
  NEXT-TO
                    = "C102 Reception (G.C17)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
   . .
"EL1 North Wall (G.C13.I37)" = INTERIOR-WALL
  NEXT-TO = "C101 Office (G.NW15)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
tagC103CEI
"EL1 Flr (G.C13.U13)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.C6.U7)"
  LOCATION = BOTTOM
  . .
"C104 Toilet (G.WNW14)" = SPACE
  SHAPE
                = POLYGON
tagC104ZTY
tagC104PSC
tagC104LSC
tagC104ESC
tagC104ISC
tagC104IME
tagC104IFA
tagC104PHL
tagC104PHS
tagC104NOP
tagC104LWA
tagC104EWA
tagC104APE
  POLYGON
                 = "EL1 Space Polygon 14"
  LOCATION
                 = FLOOR-V2
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
  . .
"EL1 North Wall (G.WNW14.E19)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
tagC104Nwin
"EL1 West Wall (G.WNW14.E20)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V2
  SHADING-SURFACE = YES
   . .
tagC104Wwin
"EL1 South Wall (G.WNW14.I39)" = INTERIOR-WALL
  NEXT-TO = "C105 Nurse (G.W11)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 East Wall (G.WNW14.I40)" = INTERIOR-WALL
  NEXT-TO = "C103 Record Storage (G.C13)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"EL1 North Wall (G.WNW14.I41)" = INTERIOR-WALL
  NEXT-TO = "C101 Office (G.NW15)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
tagC104CEI
"EL1 Flr (G.WNW14.U14)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.WNW14.U15)"
  LOCATION = BOTTOM
  . .
"C101 Office (G.NW15)" = SPACE
  SHAPE
                  = POLYGON
tagC101ZTY
tagC101PSC
tagC101LSC
tagC101ESC
tagC101ISC
tagC101IME
tagC101IFA
tagC101PHL
tagC101PHS
tagC101NOP
tagC101LWA
tagC101EWA
tagC101APE
  POLYGON
                 = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
  C-SUB-SRC-BTUH = (0, 0, 0)
```

```
C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 West Wall (G.NW15.E21)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
tagC101Wwin
"EL1 North Wall (G.NW15.E22)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
tagC101Nwin
"EL1 East Wall (G.NW15.I43)" = INTERIOR-WALL
  NEXT-TO = "C100 Lobby (G.N16)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
tagC101CEI
"EL1 Flr (G.NW15.U15)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.NW15.U16)"
  LOCATION
                 = BOTTOM
  . .
"C100 Lobby (G.N16)" = SPACE
  Х
                 = 31.25
  Y
                  = 50.5
                 = 90
  AZIMUTH
  SHAPE
                  = POLYGON
tagC100ZTY
tagC100PSC
tagC100LSC
tagC100ESC
tagC100ISC
tagC100IME
tagC100IFA
tagC100PHL
tagC100PHS
tagC100NOP
tagC100LWA
tagC100EWA
```

```
tagC100APE
  POLYGON = "EL1 Space Polygon 16"
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 North Wall (G.N16.E23)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
tagC100Nwin
"EL1 East Wall (G.N16.I45)" = INTERIOR-WALL
  NEXT-TO = "C117 Conference (G.NE1)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
tagC100CEI
"EL1 Flr (G.N16.U16)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.N16.U17)"
  LOCATION
                 = BOTTOM
   . .
"C102 Reception (G.C17)" = SPACE
  Х
                  = 41.25
  Y
                  = 34
                  = POLYGON
  SHAPE
tagC102ZTY
tagC102PSC
tagC102LSC
tagC102ESC
tagC102ISC
tagC102IME
tagC102IFA
tagC102PHL
tagC102PHS
tagC102NOP
tagC102LWA
tagC102EWA
tagC102APE
           = "EL1 Space Polygon 17"
  POLYGON
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
```

```
C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 North Wall (G.C17.I47)" = INTERIOR-WALL
  NEXT-TO = "C100 Lobby (G.N16)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
tagC102CEI
"EL1 Flr (G.C17.U17)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.C6.U7)"
  LOCATION
                 = BOTTOM
   . .
"C115 Foyer (G.E18)" = SPACE
  SHAPE
                 = POLYGON
tagC115ZTY
tagC115PSC
tagC115LSC
tagC115ESC
tagC115ISC
tagC115IME
tagC115IFA
tagC115PHL
tagC115PHS
tagC115NOP
tagC115LWA
tagC115EWA
tagC115APE
  POLYGON
                  = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
  C-SUB-SRC-BTUH = (0, 0, 0)
  C-SUB-SRC-KW = (0, 0, 0)
  C-ACTIVITY-DESC = *Office (General)*
   . .
"EL1 East Wall (G.E18.E24)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
tagC115Ewin
"EL1 North Wall (G.E18.I49)" = INTERIOR-WALL
  NEXT-TO = "C116 Principal (G.ESE2)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E18.I50)" = INTERIOR-WALL
  NEXT-TO
                = "C116 Principal (G.ESE2)"
               = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E18.I51)" = INTERIOR-WALL
  NEXT-TO
                = "C117 Conference (G.NE1)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
"EL1 West Wall (G.E18.I52)" = INTERIOR-WALL
  NEXT-TO
           = "C102 Reception (G.C17)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
               = SPACE-V5
  . .
"EL1 South Wall (G.E18.I53)" = INTERIOR-WALL
  NEXT-TO = "C111 Custodian(G.S4)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V7
  . .
"EL1 East Wall (G.E18.I54)" = INTERIOR-WALL
  NEXT-TO = "C114 Multiuse Office (G.E3)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E18.I55)" = INTERIOR-WALL
  NEXT-TO = "C114 Multiuse Office (G.E3)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V9
  . .
tagC115CEI
"EL1 Flr (G.E18.U18)" = UNDERGROUND-WALL
  CONSTRUCTION = "EL1 UFCons (G.E18.U19)"
  LOCATION = BOTTOM
  . .
tagPLNM
$ **
```

**

```
$ **
          Performance Curves
                               **
$ **
                               **
"DW-Gas-Pilotless-HIR-fPLR" = CURVE-FIT
 TYPE
          = QUADRATIC
 INPUT-TYPE = COEFFICIENTS
 COEF
          = (0.0, 0.99945706, 0.00054300)
 . .
"ForCurve w Dischrg Dampers FPLR" = CURVE-FIT
          = QUADRATIC
 TYPE
         = COEFFICIENTS
 INPUT-TYPE
          = ( 0.19066702, 0.31000000, 0.50000000 )
 COEF
 . .
"Variable Speed Drive FPLR" = CURVE-FIT
         = QUADRATIC
 TYPE
 INPUT-TYPE = COEFFICIENTS
          = (0.21976201, -0.87478399, 1.65259695)
 COEF
 . .
$ **
                               **
$ **
         Electric & Fuel Meters
                               **
$ **
                               **
$ ------
$
       Electric Meters
_____
$
tagbb1
$ -----
$
       Fuel Meters
$ -----
$ ------
$
       Master Meters
_____
$
```

```
"MASTER-METERS 1" = MASTER-METERS
MSTR-ELEC-METER = "EM1"
MSTR-FUEL-METER = "FM1"
...
```

```
$ ------
$ Heat Exchangers
$ ------
```

```
$ ------
$ Circulation Loops
$ ------
```

```
"DHW Plant 1 Loop (1)" = CIRCULATION-LOOP

TYPE = DHW

DESIGN-HEAT-T = 135

tagcc1

PROCESS-T = (135)

...
```

```
$ ------
$ Chillers
$ ------
```

```
$ ------
$
    Boilers
-----
$
$ -----
$
    Domestic Water Heaters
$ -----
"DHW Plant 1 Wtr Htr (1)" = DW-HEATER
tagcc2
C-TANK-EXT-RVAL = 12
. .
$ ------
$
    Heat Rejection
$ -----
$ ------
$
    Tower Free Cooling
$
_____
$ ------
$
    Photovoltaic Modules
$
-----
$ -----
$
    Electric Generators
$ ------
```

\$ ------

APPENDIX H. TEMPLATE AND SUBSTITUTION FILES

\$ \$	Thermal Storage
\$ \$ \$	Ground Loop Heat Exchangers
φ	

\$	
Ψ	
\$	Compliance DHW (residential duelling units)
Ψ	compliance Diw (lesidential dwelling units)
\$	
Ψ	

\$ ******	***	******	*****	********	*******
\$ **					**
\$ ** Stear	n &	Chilled	Water	Meters	**
\$ **					**
\$ *******	***	******	*****	*********	******
\$ 					
\$ Steam	Me	ters			
\$ 					

\$
\$ Chilled Water Meters
\$

\$ *******	**************	*
\$ **	*:	*
\$ ** HVAC	Systems / Zones **	*
\$ **	*:	*
\$ ******	**************	*

tagHVAC

\$ *******	*************	******
\$ **		**
\$ **	Metering & Misc HVAC	**
\$ **		**
\$ *******	***************************************	*****
\$ 		
\$	Equipment Controls	
\$ 		

\$
\$ Load Management
\$

\$ ***************************************		
\$ **	**	
\$ *** Utility Ra	tes **	
\$ **	**	
\$ ******	<*************************************	
\$ 		
\$ Ratchets		
\$ 		

\$ 	
\$ Block	Charges
\$ 	

\$
\$ Utility Rates
\$

```
$ **
                            **
$ **
          Output Reporting
                            **
$ **
                            **
$ -----
$
       Loads Non-Hourly Reporting
$ ------
LOADS-REPORT
 VERIFICATION = ( ALL-VERIFICATION )
SUMMARY = ( ALL-SUMMARY )
 . .
$ -----
$
      Systems Non-Hourly Reporting
$
_____
SYSTEMS-REPORT
 VERIFICATION = ( ALL-VERIFICATION )
 SUMMARY
         = ( ALL-SUMMARY )
 . .
$ ------
$
      Plant Non-Hourly Reporting
$ ------
PLANT-REPORT
 VERIFICATION = ( ALL-VERIFICATION )
SUMMARY = ( ALL-SUMMARY )
 . .
$ ------
$
      Economics Non-Hourly Reporting
$
_____
```

ECONOMICS-REPORT
```
STOP ..
```

H.2 Main baseline substitution file

```
tagaaa&&&
           DRYBULB-HIGH
                         = 95
tagaaa&&&DRYBULB-RANGE= 22tagaab&&&DRYBULB-HIGH= 28
tagaac&&& ALTITUDE = 70
tagEWALL&&& ROUGHNESS = 1
tagEWALL&&& LAYERS
                           = "EL1 EWall Cons Layers"
tagIWALL&&& TYPE
                           = LAYERS
tagIWALL&&& LAYERS = "EL1 IWall Cons Layers"
tagbb1&&&"EM1" = ELEC-METER
           TYPE = UTILITY
tagbb1&&&
           EXTERIOR-POWER = (0.58)
tagbb1&&&
          EXTERIOR-SCH = ( "Ext Lighting Sch" )
EXTERIOR-EU = ( EXT-USAGE )
tagbb1&&&
tagbb1&&&
tagbb1&&&
           . .
tagcc1\&\&\& PROCESS-FLOW = (0.0283093)
tagcc1&&& PROCESS-SCH = ( "MajDD DHW Eqp NRes Sch" )
```

```
TYPE
tagcc2&&&
                           = ELEC
tagcc2&&&
           TANK-VOLUME
                         = 7.68938
                         = 0.0034161
= 0.320391
           CAPACITY
tagcc2&&&
tagcc2&&&
           TANK-UA
tagcc2&&&
           LOCATION
                         = ZONE
                        = "EL1 WSW Perim Pl Zn (G.WSW26)"
           ZONE-NAME
tagcc2&&&
           DHW-LOOP
                       = "DHW Plant 1 Loop (1)"
tagcc2&&&
tagcc2&&&
           C-ENERGY-FACTOR = 0.91985
           FLOOR-HEIGHT
tagHEI&&&
                         = 12
           SPACE-HEIGHT = 9
tagHEI&&&
tagC100ZTY&&&
               ZONE-TYPE
                              = CONDITIONED
              PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC100PSC&&&
              LIGHTING-SCHEDUL = ( "SST Bldg InsLt n1 Sch" )
tagC100LSC&&&
              EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC100ESC&&&
                    "SST Bldg OffEq Sch" )
tagC100ESC&&&
               INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
tagC100ISC&&&
              INF-METHOD = AIR-CHANGE
tagC100IME&&&
              INF-FLOW/AREA = 0.0342
tagC100IFA&&&
              PEOPLE-HG-LAT = 200
tagC100PHL&&&
              PEOPLE-HG-SENS = 250
tagC100PHS&&&
              NUMBER-OF-PEOPLE = 0.5
tagC100NOP&&&
              LIGHTING-W/AREA = (1.533)
tagC100LWA&&&
              EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC100EWA&&&
tagC100APE&&&
              AREA/PERSON = 200
               ZONE-TYPE = CONDITIONED
tagC101ZTY&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC101PSC&&&
              LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC101LSC&&&
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC101ESC&&&
tagC101ESC&&&
                    "SST Bldg OffEq Sch" )
tagC101ISC&&&
              INF-SCHEDULE
                              = "ZGO-S1 (PSZ) P-Inf Sch"
tagC101IME&&&
              INF-METHOD
                              = AIR-CHANGE
              INF-FLOW/AREA
tagC101IFA&&&
                              = 0.06156
              PEOPLE-HG-LAT = 200
tagC101PHL&&&
              PEOPLE-HG-SENS = 250
tagC101PHS&&&
tagC101NOP&&&
              NUMBER-OF-PEOPLE = 1
              LIGHTING-W/AREA = (0.992)
tagC101LWA&&&
tagC101EWA&&&
              EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC101APE&&&
              AREA/PERSON
                              = 200
```

```
ZONE-TYPE
tagC102ZTY&&&
                                = CONDITIONED
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC102PSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC102LSC&&&
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC102ESC&&&
tagC102ESC&&&
                     "SST Bldg OffEq Sch" )
tagC102ISC&&&
               INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
               INF-METHOD
tagC102IME&&&
                                = AIR-CHANGE
               INF-FLOW/AREA = 0.001
PEOPLE-HG-LAT = 200
tagC102IFA&&&
tagC102PHL&&&
               PEOPLE-HG-SENS = 250
tagC102PHS&&&
tagC102NOP&&&
               NUMBER-OF-PEOPLE = 3
               LIGHTING-W/AREA = (1.922)
tagC102LWA&&&
tagC102EWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC102APE&&&
               AREA/PERSON
                                = 200
               ZONE-TYPE = CONDITIONED
tagC103ZTY&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC103PSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC103LSC&&&
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC103ESC&&&
                     "SST Bldg OffEq Sch" )
tagC103ESC&&&
               INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
tagC103ISC&&&
               INF-METHOD = AIR-CHANGE
tagC103IME&&&
tagC103IFA&&&
               INF-FLOW/AREA = 0.001
               PEOPLE-HG-LAT = 200
tagC103PHL&&&
               PEOPLE-HG-SENS = 250
tagC103PHS&&&
tagC103NOP&&&
               LIGHTING-W/AREA = (0.983)
tagC103LWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC103EWA&&&
                                = 200
tagC103APE&&&
               AREA/PERSON
               ZONE-TYPE
tagC104ZTY&&&
                                = CONDITIONED
tagC104PSC&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC104LSC&&&
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC104ESC&&&
                     "SST Bldg OffEq Sch" )
tagC104ESC&&&
                                = "ZGO-S1 (PSZ) P-Inf Sch"
tagC104ISC&&&
               INF-SCHEDULE
tagC104IME&&&
               INF-METHOD
                                = AIR-CHANGE
               INF-FLOW/AREA = 0.0656714
PEOPLE-HG-LAT = 200
tagC104IFA&&&
tagC104PHL&&&
tagC104PHS&&&
               PEOPLE-HG-SENS = 250
tagC104NOP&&&
               NUMBER-OF-PEOPLE = 0.3
```

```
tagC104LWA&&&
               LIGHTING-W/AREA = (0.577)
tagC104EWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC104APE&&&
               AREA/PERSON
                                = 200
tagC105ZTY&&&
               ZONE-TYPE = CONDITIONED
tagC105PSC&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC105LSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC105ESC&&&
                     "SST Bldg OffEq Sch" )
tagC105ESC&&&
               INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
tagC105ISC&&&
               INF-METHOD
tagC105IME&&&
                                = AIR-CHANGE
               INF-FLOW/AREA = 0.0220645
PEOPLE-HG-LAT = 200
tagC105IFA&&&
tagC105PHL&&&
tagC105PHS&&&
               PEOPLE-HG-SENS = 250
               NUMBER-OF-PEOPLE = 1.5
tagC105NOP&&&
               LIGHTING-W/AREA = (1.005)
tagC105LWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC105EWA&&&
tagC105APE&&&
               AREA/PERSON
                                = 200
               ZONE-TYPE = CONDITIONED
tagC106ZTY&&&
tagC106PSC&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC106LSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC106ESC&&&
                     "SST Bldg OffEq Sch" )
tagC106ESC&&&
tagC106ISC&&&
               INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
               INF-METHOD
tagC106IME&&&
                                = AIR-CHANGE
               INF-FLOW/AREA = 0.0526154
PEOPLE-HG-LAT = 200
tagC106IFA&&&
tagC106PHL&&&
               PEOPLE-HG-SENS
                                = 250
tagC106PHS&&&
tagC106NOP&&&
               LIGHTING-W/AREA = (0.939)
tagC106LWA&&&
tagC106EWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC106APE&&&
               AREA/PERSON
                                = 200
tagC107ZTY&&&
               ZONE-TYPE
                                = CONDITIONED
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC107PSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC107LSC&&&
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC107ESC&&&
                     "SST Bldg OffEq Sch" )
tagC107ESC&&&
               INF-SCHEDULE
                                = "ZGO-S1 (PSZ) C-Inf Sch"
tagC107ISC&&&
tagC107IME&&&
               INF-METHOD
                                = AIR-CHANGE
               INF-FLOW/AREA
tagC107IFA&&&
                                = 0.001
```

```
tagC107PHL&&&
               PEOPLE-HG-LAT
                                = 200
               PEOPLE-HG-SENS
                                = 250
tagC107PHS&&&
tagC107NOP&&&
tagC107LWA&&&
               LIGHTING-W/AREA = (1.357)
tagC107EWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC107APE&&&
               AREA/PERSON
                                = 200
               ZONE-TYPE
                              = CONDITIONED
tagC108ZTY&&&
tagC108PSC&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC108LSC&&&
               EQUIP-SCHEDULE
                                = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC108ESC&&&
                     "SST Bldg OffEq Sch" )
tagC108ESC&&&
               INF-SCHEDULE
                               = "ZGO-S1 (PSZ) P-Inf Sch"
tagC108ISC&&&
tagC108IME&&&
               INF-METHOD
                                = AIR-CHANGE
               INF-FLOW/AREA = 0.0198427
tagC108IFA&&&
tagC108PHL&&&
               PEOPLE-HG-LAT = 200
               PEOPLE-HG-SENS = 250
tagC108PHS&&&
tagC108NOP&&&
               NUMBER-OF-PEOPLE = 12
               LIGHTING-W/AREA = (1.07)
tagC108LWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC108EWA&&&
tagC108APE&&&
               AREA/PERSON
                                = 200
               ZONE-TYPE
                               = CONDITIONED
tagC109ZTY&&&
tagC109PSC&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC109LSC&&&
                                = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC109ESC&&&
               EQUIP-SCHEDULE
tagC109ESC&&&
                     "SST Bldg OffEq Sch" )
tagC109ISC&&&
               INF-SCHEDULE
                                = "ZGO-S1 (PSZ) P-Inf Sch"
                                = AIR-CHANGE
tagC109IME&&&
               INF-METHOD
                                = 0.063129
tagC109IFA&&&
               INF-FLOW/AREA
               PEOPLE-HG-LAT = 200
tagC109PHL&&&
               PEOPLE-HG-SENS
                                = 250
tagC109PHS&&&
tagC109NOP&&&
               NUMBER-OF-PEOPLE = 4
               LIGHTING-W/AREA = (1.362)
tagC109LWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC109EWA&&&
                                = 200
tagC109APE&&&
               AREA/PERSON
tagC110ZTY&&&
               ZONE-TYPE
                                = UNCONDITIONED
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC110PSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC110LSC&&&
tagC110ESC&&&
               EQUIP-SCHEDULE
                                = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC110ESC&&&
                     "SST Bldg OffEq Sch" )
```

```
tagC110ISC&&&
               INF-SCHEDULE
                             = "ZGO-S1 (PS
= AIR-CHANGE
                                = "ZGO-S1 (PSZ) P-Inf Sch"
               INF-METHOD
tagC110IME&&&
               INF-FLOW/AREA = 0.057
PEOPLE-HG-LAT = 200
tagC110IFA&&&
tagC110PHL&&&
               PEOPLE-HG-SENS = 250
tagC110PHS&&&
tagC110NOP&&&
tagC110LWA&&&
               LIGHTING-W/AREA = (0.927)
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC110EWA&&&
tagC110APE&&&
               AREA/PERSON
                                = 200
tagC111ZTY&&&
               ZONE-TYPE = CONDITIONED
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC111PSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
tagC111LSC&&&
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC111ESC&&&
                     "SST Bldg OffEq Sch" )
tagC111ESC&&&
               INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
tagC111ISC&&&
               INF-METHOD = AIR-CH
INF-FLOW/AREA = 0.057
tagC111IME&&&
                                = AIR-CHANGE
tagC111IFA&&&
               PEOPLE-HG-LAT = 200
tagC111PHL&&&
               PEOPLE-HG-SENS = 250
tagC111PHS&&&
tagC111NOP&&&
               NUMBER-OF-PEOPLE = 0.2
tagC111LWA&&&
               LIGHTING-W/AREA = (0.671)
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC111EWA&&&
tagC111APE&&&
               AREA/PERSON
                                = 200
               ZONE-TYPE = CONDITIONED
tagC112ZTY&&&
tagC112PSC&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC112LSC&&&
               LIGHTING-SCHEDUL = ( "SST Bldg InsLt Sch" )
               EQUIP-SCHEDULE = ( "SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC112ESC&&&
                     "SST Bldg OffEq Sch" )
tagC112ESC&&&
               INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
tagC112ISC&&&
tagC112IME&&&
                                = AIR-CHANGE
               INF-METHOD
tagC112IFA&&&
               INF-FLOW/AREA = 0.001
               PEOPLE-HG-LAT = 200
tagC112PHL&&&
tagC112PHS&&&
               PEOPLE-HG-SENS = 250
tagC112NOP&&&
               LIGHTING-W/AREA = (0.533)
tagC112LWA&&&
               EQUIPMENT-W/AREA = (0, 0, 0.5)
tagC112EWA&&&
               AREA/PERSON = 200
tagC112APE&&&
tagC114ZTY&&&
               ZONE-TYPE
                                = CONDITIONED
tagC114PSC&&&
               PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
```

tagC114LSC&&&	LIGHTING-SCHEDUL = ("SST Bldg InsLt Sch")
tagC114ESC&&&	EQUIP-SCHEDULE = ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC114ESC&&&	"SST Bldg OffEq Sch")
tagC114ISC&&&	INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
tagC114IME&&&	INF-METHOD = AIR-CHANGE
tagC114IFA&&&	INF-FLOW/AREA = 0.0667791
tagC114PHL&&&	PEOPLE-HG-LAT = 200
tagC114PHS&&&	PEOPLE-HG-SENS = 250
tagC114NOP&&&	NUMBER-OF-PEOPLE = 2
tagC114LWA&&&	LIGHTING-W/AREA = (1.033)
tagC114EWA&&&	EQUIPMENT-W/AREA = $(0, 0, 0.5)$
tagC114APE&&&	AREA/PERSON = 200
tagC115ZTY&&&	ZONE-TYPE = CONDITIONED
tagC115PSC&&&	PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC115LSC&&&	LIGHTING-SCHEDUL = ("SST Bldg InsLt n2 Sch")
tagC115ESC&&&	EQUIP-SCHEDULE = ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC115ESC&&&	"SST Bldg OffEq Sch")
tagC115ISC&&&	INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
tagC115IME&&&	INF-METHOD = AIR-CHANGE
tagC115IFA&&&	INF-FLOW/AREA = 0.0153336
tagC115PHL&&&	PEOPLE-HG-LAT = 200
tagC115PHS&&&	PEOPLE-HG-SENS = 250
tagC115NOP&&&	NUMBER-OF-PEOPLE = 0.5
tagC115LWA&&&	LIGHTING-W/AREA = (0.907)
tagC115EWA&&&	EQUIPMENT-W/AREA = $(0, 0, 0.5)$
tagC115APE&&&	AREA/PERSON = 200
tagC116ZTY&&&	ZONE-TYPE = CONDITIONED
tagC116PSC&&&	PEOPLE-SCHEDULE = "SST Bldg Occup Sch"
tagC116LSC&&&	LIGHTING-SCHEDUL = ("SST Bldg InsLt Sch")
tagC116ESC&&&	EQUIP-SCHEDULE = ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC116ESC&&&	"SST Bldg OffEq Sch")
tagC116ISC&&&	INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
tagC116IME&&&	INF-METHOD = AIR-CHANGE
tagC116IFA&&&	INF-FLOW/AREA = 0.0546459
tagC116PHL&&&	PEOPLE-HG-LAT = 200
tagC116PHS&&&	PEOPLE-HG-SENS = 250
tagC116NOP&&&	NUMBER-OF-PEOPLE = 1.5
tagC116LWA&&&	LIGHTING-W/AREA = (1.033)
tagC116EWA&&&	EQUIPMENT-W/AREA = $(0, 0, 0.5)$
tagC116APE&&&	AREA/PERSON = 200

tagC117ZTY&&&	ZONE-TYPE	=	CONDITIONED
tagC117PSC&&&	PEOPLE-SCHEDULE	=	"SST Bldg Occup Sch"
tagC117LSC&&&	LIGHTING-SCHEDUL	=	("SST Bldg InsLt Sch")
tagC117ESC&&&	EQUIP-SCHEDULE	=	("SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC117ESC&&&	"SST Bldg ()ff	fEq Sch")
tagC117ISC&&&	INF-SCHEDULE	=	"ZGO-S1 (PSZ) P-Inf Sch"
tagC117IME&&&	INF-METHOD	=	AIR-CHANGE
tagC117IFA&&&	INF-FLOW/AREA	=	0.0517886
tagC117PHL&&&	PEOPLE-HG-LAT	=	200
tagC117PHS&&&	PEOPLE-HG-SENS	=	250
tagC117NOP&&&	NUMBER-OF-PEOPLE	=	6
tagC117LWA&&&	LIGHTING-W/AREA	=	(1.086)
tagC117EWA&&&	EQUIPMENT-W/AREA	=	(0, 0, 0.5)
tagC117APE&&&	AREA/PERSON	=	200
tagC118ZTY&&&	ZONE-TYPE	=	CONDITIONED
tagC118ZTY&&& tagC118PSC&&&	ZONE-TYPE PEOPLE-SCHEDULE	=	CONDITIONED "SST Bldg Occup Sch"
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL	= = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch")
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE	= = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch",
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (= = = = 0ff	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch")
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ESC&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE	= = = 0ff =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch") "ZGO-S1 (PSZ) C-Inf Sch"
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118IME&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD	= = = 0ff = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118ISC&&& tagC118IME&&& tagC118IFA&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD INF-FLOW/AREA	= = = 0ff = = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE 0.001
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118ISC&&& tagC118IME&&& tagC118IFA&&& tagC118PHL&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD INF-FLOW/AREA PEOPLE-HG-LAT	= = = 0ff = = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE 0.001 200
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118ISC&&& tagC118IME&&& tagC118IFA&&& tagC118PHL&&& tagC118PHL&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD INF-FLOW/AREA PEOPLE-HG-LAT PEOPLE-HG-SENS	= = = 0ff = = = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE 0.001 200 250
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118ISC&&& tagC118IFA&&& tagC118IFA&&& tagC118PHL&&& tagC118PHS&&& tagC118NOP&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD INF-FLOW/AREA PEOPLE-HG-LAT PEOPLE-HG-SENS NUMBER-OF-PEOPLE	= = = 0ff = = = = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE 0.001 200 250 0.5
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118ISC&&& tagC118IFA&&& tagC118IFA&&& tagC118PHL&&& tagC118PHS&&& tagC118NOP&&& tagC118LWA&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD INF-FLOW/AREA PEOPLE-HG-LAT PEOPLE-HG-SENS NUMBER-OF-PEOPLE LIGHTING-W/AREA	= = = 0ff = = = = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Eq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE 0.001 200 250 0.5 (1.439)
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118ISC&&& tagC118IFA&&& tagC118IFA&&& tagC118PHL&&& tagC118PHL&&& tagC118PHL&&& tagC118NOP&&& tagC118LWA&&& tagC118EWA&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDULE EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD INF-FLOW/AREA PEOPLE-HG-LAT PEOPLE-HG-SENS NUMBER-OF-PEOPLE LIGHTING-W/AREA EQUIPMENT-W/AREA	= = = 0ff = = = = = = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", Heq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE 0.001 200 250 0.5 (1.439) (0, 0, 0.5)
tagC118ZTY&&& tagC118PSC&&& tagC118LSC&&& tagC118ESC&&& tagC118ESC&&& tagC118ISC&&& tagC118ISC&&& tagC118IFA&&& tagC118IFA&&& tagC118PHL&&& tagC118PHL&&& tagC118PHS&&& tagC118ADP&&& tagC118EWA&&& tagC118APE&&&	ZONE-TYPE PEOPLE-SCHEDULE LIGHTING-SCHEDUL EQUIP-SCHEDULE "SST Bldg (INF-SCHEDULE INF-METHOD INF-FLOW/AREA PEOPLE-HG-LAT PEOPLE-HG-SENS NUMBER-OF-PEOPLE LIGHTING-W/AREA EQUIPMENT-W/AREA AREA/PERSON	= = = 0ff = = = = = = = =	CONDITIONED "SST Bldg Occup Sch" ("SST Bldg InsLt n1 Sch") ("SST Bldg OffEq Sch", "SST Bldg OffEq Sch", FEq Sch") "ZGO-S1 (PSZ) C-Inf Sch" AIR-CHANGE 0.001 200 250 0.5 (1.439) (0, 0, 0.5) 200

tagC117Ewin&&&"EI	L1 East Win (G.NE)	1.E	1.W1)	" = WII	NDOW		
tagC117Ewin&&&	GLASS-TYPE	=	"EL1	Window	Туре	#1	GT"
tagC117Ewin&&&	FRAME-WIDTH	=	0.108	3333			
tagC117Ewin&&&	Х	=	4.108	333			
tagC117Ewin&&&	Y	=	3.608	333			
tagC117Ewin&&&	HEIGHT	=	3.783	333			
tagC117Ewin&&&	WIDTH	=	5.783	333			
tagC117Ewin&&&	FRAME-CONDUCT	=	2.781				
tagC117Ewin&&&	•••						

tagC117Nwin&&&"EL1 North Win (G.NE1.E2.W1)" = WINDOW tagC117Nwin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC117Nwin&&& FRAME-WIDTH = 0.108333 tagC117Nwin&&& X = 3.43833tagC117Nwin&&& Y = 3.60833 tagC117Nwin&&& HEIGHT = 3.78333tagC117Nwin&&& WIDTH = 5.78333 tagC117Nwin&&& FRAME-CONDUCT = 2.781 tagC117Nwin&&& . . tagC116Ewin&&&"EL1 East Win (G.ESE2.E4.W1)" = WINDOW GLASS-TYPE = "EL1 Window Type #1 GT" tagC116Ewin&&& tagC116Ewin&&& FRAME-WIDTH = 0.108333 tagC116Ewin&&& X = 3.35833tagC116Ewin&&& Y = 3.60833 HEIGHT tagC116Ewin&&& = 3.78333tagC116Ewin&&& WIDTH = 5.78333 tagC116Ewin&&& FRAME-CONDUCT = 2.781 tagC116Ewin&&& . . tagC116Ewin&&&"EL1 East Door (G.ESE2.E4.D1)" = DOOR tagC116Ewin&&& CONSTRUCTION = "Sgl Lyr Unins Mtl Door" = 11.75tagC116Ewin&&& Х tagC116Ewin&&& HEIGHT = 7.5 tagC116Ewin&&& = 3.5 WIDTH tagC116Ewin&&& . . tagC114Nwin&&& tagC114Swin&&&"EL1 South Win (G.E3.E7.W1)" = WINDOW tagC114Swin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC114Swin&&& FRAME-WIDTH = 0.108333tagC114Swin&&& X = 3.89833 tagC114Swin&&& Y = 3.60833tagC114Swin&&& HEIGHT = 3.78333 tagC114Swin&&& WIDTH = 2.78333FRAME-CONDUCT tagC114Swin&&& = 2.781 tagC114Swin&&& . . tagC114Ewin&&&"EL1 East Win (G.E3.E8.W1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC114Ewin&&& FRAME-WIDTH = 0.108333

```
tagC114Ewin&&&
                Х
                                 = 8.85833
tagC114Ewin&&&
                Y
                                 = 3.60833
tagC114Ewin&&&
                HEIGHT
                                 = 3.78333
tagC114Ewin&&&
                WIDTH
                                 = 5.78333
tagC114Ewin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC114Ewin&&&
                . .
tagC114Ewin&&&"EL1 East Door (G.E3.E8.D1)" = DOOR
                CONSTRUCTION = "Sgl Lyr Unins Mtl Door"
tagC114Ewin&&&
tagC114Ewin&&&
                Х
                                 = 2.75
                                 = 7.5
tagC114Ewin&&&
                HEIGHT
                                 = 3.5
tagC114Ewin&&&
                WIDTH
tagC114Ewin&&&
                . .
tagC110Swin&&&"EL1 South Door (G.S5.E10.D1)" = DOOR
                CONSTRUCTION
tagC110Swin&&&
                                 = "Sgl Lyr Unins Mtl Door"
tagC110Swin&&&
                Х
                                 = 1.79
                HEIGHT
                                 = 7.5
tagC110Swin&&&
                                 = 3.5
tagC110Swin&&&
                WIDTH
tagC110Swin&&&
                . .
tagC109Ewin&&&"EL1 East Win (G.S7.E11.W1)" = WINDOW
tagC109Ewin&&&
                GLASS-TYPE
                                 = "EL1 Window Type #1 GT"
tagC109Ewin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC109Ewin&&& X
                                 = 5.85833
tagC109Ewin&&&
               Y
                                 = 3.60833
tagC109Ewin&&& HEIGHT
                                 = 3.78333
tagC109Ewin&&&
                WIDTH
                                 = 5.78333
tagC109Ewin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC109Ewin&&&
                . .
tagC109Wwin&&&"EL1 West Win (G.S7.E12.W1)" = WINDOW
tagC109Wwin&&&
                GLASS-TYPE
                                 = "EL1 Window Type #1 GT"
tagC109Wwin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC109Wwin&&&
                Х
                                 = 6.35833
tagC109Wwin&&&
               Y
                                 = 3.60833
tagC109Wwin&&&
                HEIGHT
                                 = 3.78333
tagC109Wwin&&&
                WIDTH
                                 = 5.78333
tagC109Wwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC109Wwin&&&
                . .
tagC108Swin&&&"EL1 South Door (G.WSW8.E15.D1)" = WINDOW
```

tagC108Swin&&&

GLASS-TYPE

= "EL1 Window Type #1 GT"

tagC108Swin&&& FRAME-WIDTH = 0 tagC108Swin&&& Х = 1.79tagC108Swin&&& = 0 Y = 7.5 tagC108Swin&&& HEIGHT tagC108Swin&&& WIDTH = 3.5tagC108Swin&&& FRAME-CONDUCT = 3.079 tagC108Swin&&& . . tagC108Wwin&&&"EL1 West Win (G.WSW8.E16.W1)" = WINDOW = "EL1 Window Type #1 GT" tagC108Wwin&&& GLASS-TYPE tagC108Wwin&&& FRAME-WIDTH = 0.108333 tagC108Wwin&&& = 7.85833 Х tagC108Wwin&&& Y = 3.60833 tagC108Wwin&&& HEIGHT = 3.78333 WIDTH tagC108Wwin&&& = 5.78333tagC108Wwin&&& FRAME-CONDUCT = 2.781 tagC108Wwin&&& . . tagC106Wwin&&&"EL1 West Door (G.W9.E17.D1)" = DOOR tagC106Wwin&&& CONSTRUCTION = "Sgl Lyr Unins Mtl Door" tagC106Wwin&&& Х = 6.2 tagC106Wwin&&& HEIGHT = 7.5 = 3.5tagC106Wwin&&& WIDTH tagC106Wwin&&& . . tagC105Wwin&&&"EL1 West Win (G.W11.E18.W1)" = WINDOW tagC105Wwin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC105Wwin&&& FRAME-WIDTH = 0.108333tagC105Wwin&&& Х = 3.16833tagC105Wwin&&& Y = 3.60833tagC105Wwin&&& HEIGHT = 3.78333 tagC105Wwin&&& WIDTH = 5.78333tagC105Wwin&&& FRAME-CONDUCT = 2.781 tagC105Wwin&&& . . tagC101Wwin&&&"EL1 West Win (G.NW15.E21.W1)" = WINDOW tagC101Wwin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC101Wwin&&& FRAME-WIDTH = 0.108333tagC101Wwin&&& Х = 3.68833 tagC101Wwin&&& Y = 3.60833 tagC101Wwin&&& HEIGHT = 3.78333 tagC101Wwin&&& WIDTH = 2.78333

tagC101Wwin&&& FRAME-CONDUCT = 2.781 tagC101Wwin&&& . . tagC101Nwin&&&"EL1 North Win (G.NW15.E22.W1)" = WINDOW tagC101Nwin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC101Nwin&&& FRAME-WIDTH = 0.108333 tagC101Nwin&&& Х = 3.52833tagC101Nwin&&& Y = 3.60833 = 3.78333 tagC101Nwin&&& HEIGHT tagC101Nwin&&& WIDTH = 5.78333tagC101Nwin&&& FRAME-CONDUCT = 2.781 tagC101Nwin&&& . . tagC100Nwin&&&"EL1 North Win (G.N16.E23.W1)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.108333tagC100Nwin&&& Х = 1.68833tagC100Nwin&&& Y = 3.60833tagC100Nwin&&& HEIGHT = 3.78333 tagC100Nwin&&& WIDTH = 2.78333 tagC100Nwin&&& FRAME-CONDUCT = 2.781 tagC100Nwin&&& . . tagC100Nwin&&&"EL1 North Win (G.N16.E23.W2)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.108333= 12.0283tagC100Nwin&&& Х tagC100Nwin&&& Y = 3.60833 tagC100Nwin&&& HEIGHT = 3.78333WIDTH tagC100Nwin&&& = 2.78333tagC100Nwin&&& FRAME-CONDUCT = 2.781 tagC100Nwin&&& . . tagC100Nwin&&&"EL1 North Door (G.N16.E23.D1)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.25tagC100Nwin&&& Х = 5.25 tagC100Nwin&&& = 0.25 Y tagC100Nwin&&& = 7 HEIGHT tagC100Nwin&&& = 6 WIDTH tagC100Nwin&&& = 7 OVERHANG-A tagC100Nwin&&& = 2.5 OVERHANG-B tagC100Nwin&&& OVERHANG-W = 20 tagC100Nwin&&& = 15.75OVERHANG-D

tagC100Nwin&&& FRAME-CONDUCT = 3.079 tagC100Nwin&&& . . tagC115Ewin&&&"EL1 East Win (G.E18.E24.W1)" = WINDOW tagC115Ewin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC115Ewin&&& FRAME-WIDTH = 0.108333 tagC115Ewin&&& Х = 1.10833tagC115Ewin&&& Y = 3.60833 tagC115Ewin&&& HEIGHT = 3.78333tagC115Ewin&&& WIDTH = 1.28333FRAME-CONDUCT tagC115Ewin&&& = 2.781 tagC115Ewin&&& . . tagC115Ewin&&&"EL1 East Win (G.E18.E24.W2)" = WINDOW tagC115Ewin&&& GLASS-TYPE = "EL1 Window Type #1 GT" = 0.108333 tagC115Ewin&&& FRAME-WIDTH tagC115Ewin&&& = 10.1083Х = 3.60833 tagC115Ewin&&& Y tagC115Ewin&&& HEIGHT = 3.78333 tagC115Ewin&&& WIDTH = 1.28333 tagC115Ewin&&& FRAME-CONDUCT = 2.781 tagC115Ewin&&& . . tagC115Ewin&&&"EL1 East Door (G.E18.E24.D1)" = WINDOW tagC115Ewin&&& GLASS-TYPE = "EL1 Window Type #1 GT" tagC115Ewin&&& FRAME-WIDTH = 0 = 3 tagC115Ewin&&& Х Y = 0 tagC115Ewin&&& tagC115Ewin&&& HEIGHT = 7.5 tagC115Ewin&&& WIDTH = 6.5 tagC115Ewin&&& = 2.75 OVERHANG-A = 3.5tagC115Ewin&&& OVERHANG-B tagC115Ewin&&& OVERHANG-W = 12 tagC115Ewin&&& = 6.5 OVERHANG-D tagC115Ewin&&& OVERHANG-ANGLE = 70tagC115Ewin&&& FRAME-CONDUCT = 3.079tagC115Ewin&&& . . tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL = "C100 Plnm (G.N34)" tagC100CEI&&& NEXT-TO = "EL1 Ceilg Construction" tagC100CEI&&& CONSTRUCTION tagC100CEI&&& LOCATION = TOP tagC100CEI&&& . .

tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL NEXT-TO = "C101 Plnm (G.NW33)" tagC101CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC101CEI&&& tagC101CEI&&& LOCATION = TOP tagC101CEI&&& • • tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL tagC102CEI&&& NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& LOCATION = TOP tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC103CEI&&& CONSTRUCTION tagC103CEI&&& tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL tagC104CEI&&& NEXT-TO = "C104 Plnm (G.WNW32)"tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC104CEI&&& tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL tagC105CEI&&& NEXT-TO = "C105 Plnm (G.W29)" tagC105CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC105CEI&&& LOCATION = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL tagC106CEI&&& NEXT-TO = "C106 Plnm (G.W27)" tagC106CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC106CEI&&& LOCATION tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL = "C107 Plnm (G.C28)" tagC107CEI&&& NEXT-TO = "EL1 Ceilg Construction" tagC107CEI&&& CONSTRUCTION tagC107CEI&&& LOCATION = TOP tagC107CEI&&& . .

tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL NEXT-TO = "C108 Plnm (G.WSW26)" tagC108CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC108CEI&&& = TOP tagC108CEI&&& LOCATION tagC108CEI&&& • • tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL = "C109 Plnm (G.S25)" tagC109CEI&&& NEXT-TO CONSTRUCTION = "EL1 Ceilg Construction" tagC109CEI&&& tagC109CEI&&& LOCATION = TOP tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL tagC110CEI&&& NEXT-TO = "C110 Plnm (G.S23)" tagC110CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION tagC110CEI&&& = TOP tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL tagC111CEI&&& NEXT-TO = "C111 Plnm (G.S22)" tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC111CEI&&& tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL tagC112CEI&&& NEXT-TO = "C112 C113 Plnm (G.C24)" tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC112CEI&&& tagC112CEI&&& . . tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL tagC114CEI&&& NEXT-TO = "C114 Plnm (G.E21)" tagC114CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC114CEI&&& LOCATION tagC114CEI&&& . . tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL = "C115 Plnm (G.E36)" tagC115CEI&&& NEXT-TO tagC115CEI&&& = "EL1 Ceilg Construction" CONSTRUCTION tagC115CEI&&& LOCATION = TOP tagC115CEI&&& . .

```
tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL
tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)"
tagC116CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC116CEI&&& LOCATION = TOP
tagC116CEI&&& ...
tagC117CEI&&& NEXT-TO = "C117 Plnm (G.NE19)"
tagC117CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC117CEI&&& LOCATION = TOP
tagC117CEI&&& ...
tagC118CEI&&& NEXT-TO = "ninifoyer Plnm (G.C30)"
tagC118CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC118CEI&&& ...
```

H.3 Baseline plenum substitution file

```
"C117 Plnm (G.NE19)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON = "EL1 Space Polygon 1"
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
```

. .

```
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
           = "C102 Plnm (G.C35)"
  NEXT-TO
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V4
"C116 Plnm (G.ESE20)" = SPACE
  Z
                = 9
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
  POLYGON = "EL1 Space Polygon 2"
  LOCATION = FLOOR-V12
  . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.\text{NE19})"
```

```
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
  Ζ
                = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
  POLYGON = "EL1 Space Polygon 3"
  LOCATION = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V4
  SHADING-SURFACE = YES
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
  Х
                 = 92.75
  Y
                 = 56.45
  Ζ
                 = 9
  AZIMUTH
                 = 180
                 = 3
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
```

```
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 4"
  . .
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                 = 92.75
  Y
                  = 42.75
  Ζ
                 = 9
  AZIMUTH
                 = -90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C112 C113 Plnm (G.C24)" = SPACE
                  = 71.25
  Х
  Y
                 = 42.75
  7.
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                 = "EL1 Space Polygon 6"
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
                 = "C108 Plnm (G.WSW26)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V1
   . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
  NEXT-TO
                 = "minifoyer Plnm (G.C30)"
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V4
  . .
"C109 Plnm (G.S25)" = SPACE
  Ζ
                 = 9
                 = 3
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON
                 = "EL1 Space Polygon 7"
  LOCATION = FLOOR-V7
  . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"C108 Plnm (G.WSW26)" = SPACE
                 = 9
  Ζ
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
```

```
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
  POLYGON = "EL1 Space Polygon 8"
  LOCATION
                 = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
  NEXT-TO = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.I68)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V5
   . .
"C106 Plnm (G.W27)" = SPACE
                  = 71.25
  Х
  Y
                 = 18.5
  Z
                 = 9
  AZIMUTH
                 = -90
  HEIGHT
                 = 3
  SHAPE
                = POLYGON
```

```
ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON = "EL1 Space Polygon 9"
  . .
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO
                = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
                 = 61.1
  Х
  Y
                 = 25
  7.
                 = 9
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 10"
  . .
```

```
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C105 Plnm (G.W29)" = SPACE
  Х
                 = 61.1
  Y
                  = 18.5
  Z
                  = 9
  AZIMUTH
                 = -90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V5
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"minifoyer Plnm (G.C30)" = SPACE
                  = 60.8
  Х
                 = 34
  Y
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
  . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C103 Plnm (G.C31)" = SPACE
  Х
                  = 41.25
  Y
                  = 25.75
  7.
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
```

```
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
  . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
   . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C104 Plnm (G.WNW32)" = SPACE
  7.
                  = 9
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON
                  = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V1
  SHADING-SURFACE = YES
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.WNW32.182)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.183)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  Ζ
                = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
                = UNCONDITIONED
  ZONE-TYPE
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
```

. .

```
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.NW33.I85)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
  Х
                  = 31.25
  Y
                  = 50.5
  Ζ
                  = 9
                 = 90
  AZIMUTH
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.N34.I86)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C102 Plnm (G.C35)" = SPACE
  Х
                  = 41.25
  Y
                  = 34
  7.
                   = 9
  HEIGHT = 3
```

```
SHAPE
                 = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 17"
  . .
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.C35.187)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C115 Plnm (G.E36)" = SPACE
                 = 9
  7.
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON
                 = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
  . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                   = SPACE-V1
  SHADING-SURFACE = YES
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
   . .
"EL1 North Wall (G.E36.188)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"EL1 South Wall (G.E36.192)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V7
  . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E36.194)" = INTERIOR-WALL
  NEXT-TO = "C114 \text{ Plnm} (G.E21)"
                 = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V9
  . .
```

H.4 Baseline HVAC substitution file

"AC-3 (PSZ) (G.NE1)" = SYSTEM TYPE = PSZ HEAT-SOURCE = FURNACE ZONE-HEAT-SOURCE = NONE BASEBOARD-SOURCE = NONE MAX-SUPPLY-T = 120 MIN-SUPPLY-T = 55 ECONO-LIMIT-T = 70

```
ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 88.5143
  MIN-OUTSIDE-AIR = 0.225
  OA-CONTROL = DUAL-TEMP
  FAN-SCHEDULE
               = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.47
              = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-EIR = 0.21
  CRANKCASE-HEAT = 0
  FURNACE-AUX
               = 0
  FURNACE-HIR = 1.25
CONTROL-ZONE = "EL1 NE Perim Zn (G.NE1)"
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
         = CONDITIONED
                = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C117 Conference (G.NE1)"
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
  TYPE
         = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C117 Plnm (G.NE19)"
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
                = CONDITIONED
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C116 Principal (G.ESE2)"
  SPACE
```

. .

```
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C116 Plnm (G.ESE20)"
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
                = CONDITIONED
  TYPE
                = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C114 Multiuse Office (G.E3)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C114 Plnm (G.E21)"
  . .
"AC-2 (PSZ) (G.WSW8)" = SYSTEM
  TYPE
               = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
               = 64
  MIN-OUTSIDE-AIR = 0.206
  OA-CONTROL = DUAL-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.07
  SUPPLY-EFF
               = 0.53
  RETURN-EFF = 0.53
```

```
COOLING-EIR = 0.178591
  CRANKCASE-HEAT = 0
                = 0
  FURNACE-AUX
  FURNACE-HIR = 1.25
  CONTROL-ZONE
                = "EL1 WSW Perim Zn (G.WSW8)"
"EL1 South Perim Zn (G.S7)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C109 Workroom (G.S7)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S25)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C109 Plnm (G.S25)"
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C108 Staff Lounge (G.WSW8)"
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C108 Plnm (G.WSW26)"
  . .
```

```
"EL1 Sys1 (PSZ) (G.W9)" = SYSTEM
  TYPE
            = PSZ
  HEAT-SOURCE = NONE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 33.3699
  MIN-OUTSIDE-AIR = 0
  OA-CONTROL = DUAL-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.01059
               = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-EIR = 0.178591
  CRANKCASE-HEAT = 0
  FURNACE-AUX
                = 0
  FURNACE-HIR = 1.25
CONTROL-ZONE = "EL1 West Perim Zn (G.W9)"
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C106 Elec (G.W9)"
  SPACE
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C106 Plnm (G.W27)"
  SPACE
  . .
"EL1 Sys1 (PSZ) (G.C10)" = SYSTEM
  TYPE
                  = PS7.
```

```
HEAT-SOURCE = NONE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                = 27.7227
  MIN-OUTSIDE-AIR = 0
  OA-CONTROL
               = DUAL-TEMP
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.01059
                = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-EIR = 0.178591
  CRANKCASE-HEAT = 0
  FURNACE-AUX
                = 0
                = 1.25
  FURNACE-HIR
  CONTROL-ZONE = "EL1 Core Zn (G.C10)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                 = CONDITIONED
               = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C107 Data (G.C10)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C107 Plnm (G.C28)"
  SPACE
  . .
"AC-4 (PSZ) (G.NW15)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
```

```
BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 163
  MIN-OUTSIDE-AIR = 0.167
  OA-CONTROL = DUAL-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.63
  SUPPLY-EFF
               = 0.53
  RETURN-EFF
                = 0.53
               = 0.21
  COOLING-EIR
  CRANKCASE-HEAT = 0
               = 0
  FURNACE-AUX
  FURNACE-HIR
                = 1.25
  CONTROL-ZONE = "EL1 NW Perim Zn (G.NW15)"
"EL1 West Perim Zn (G.W11)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C105 Nurse (G.W11)"
"EL1 West Perim Pl Zn (G.W29)" = ZONE
        = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C105 Plnm (G.W29)"
  SPACE
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
```
```
DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
  TYPE.
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C103 Plnm (G.C31)"
  SPACE
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  EXHAUST-FLOW = 100
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
        = "C104 Toilet (G.WNW14)"
  SPACE
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C104 Plnm (G.WNW32)"
  SPACE
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C101 Office (G.NW15)"
  . .
```

```
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
  TYPE
            = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C101 Plnm (G.NW33)"
  . .
"AC-1 (PSZ) (G.C17)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
               = 398
  MIN-OUTSIDE-AIR = 0.214
  OA-CONTROL = DUAL-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.01059
  SUPPLY-EFF
               = 0.53
  RETURN-EFF
                = 0.53
  COOLING-EIR
                = 0.178591
  CRANKCASE-HEAT = 0
               = 0
  FURNACE-AUX
  FURNACE-HIR
                = 1.25
  CONTROL-ZONE = "EL1 Core Zn (G.C17)"
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
       = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  EXHAUST-FLOW = 100
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C111 Custodian(G.S4)"
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
```

```
TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C111 Plnm (G.S22)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
        = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C110 Riser (G.S5)"
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C110 Plnm (G.S23)"
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
               = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
               = 20
  EXHAUST-FLOW
               = 200
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C112 C113 Toilets (G.C6)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C112 C113 Plnm (G.C24)"
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
```

```
OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
              = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "minifoyer Plnm (G.C30)"
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C100 Lobby (G.N16)"
  SPACE
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C100 Plnm (G.N34)"
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
```

```
SPACE
                  = "C102 Reception (G.C17)"
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C102 Plnm (G.C35)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
                 = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "S1 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "S1 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C115 Foyer (G.E18)"
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C115 Plnm (G.E36)"
  SPACE
  . .
```

Appendix I

Participant Substitution Files

I.1 Main substitution files

I.1.1 Participant 019

tagaaa&&&	DRYBULB-HIGH	= 95
tagaaa&&&	DRYBULB-RANGE	= 22
tagaab&&&	DRYBULB-HIGH	= 28
tagaac&&&	ALTITUDE	= 70
tagEWALL&&&	ROUGHNESS	= 4
tagEWALL&&&	LAYERS	= "019 EWall Cons Layers"
tagIWALL&&&	TYPE	= U-VALUE
tagIWALL&&&	U-VALUE	= 2.7
tagbb1&&&		
tagcc1&&&	PROCESS-FLOW	= (0.0392708)
tagcc1&&&	PROCESS-SCH	= ("019 Bldg Occup Sch")
tagcc2&&&	TYPE	= GAS
tagcc2&&&	TANK-VOLUME	= 10.6031
tagcc2&&&	CAPACITY	= 0.0141318
tagcc2&&& tagcc2&&& tagcc2&&&	HIR-FPLR TANK-UA LOCATION	<pre>= "DW-Gas-Pilotless-HIR-fPLR" = 0.441797 = ZONE</pre>
tagcc2&&& tagcc2&&& tagcc2&&&	ZONE-NAME DHW-LOOP C-RECOV-EFF	<pre>= "EL1 WSW Perim Zn (G.WSW8)" = "DHW Plant 1 Loop (1)" = 0.8</pre>

tagcc2&&&	C-ENERGY-FACTOR	=	0.5	99854			
tagcc2&&&	C-STBY-LOSS-FRAC	=	2.5	9627			
tagHEI&&&	FLOOR-HEIGHT	=	10				
tagHEI&&&	SPACE-HEIGHT	=	10				
tagC100ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC101ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC102ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC103ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC104ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC105ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC106ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC107ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC108ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC109ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC110ZTY&8	& ZONE-TYPE		=	UNCOI	NDITIC	DNED	
tagC111ZTY&8	k& ZONE-TYPE		=	COND	ITIONE	ED	
tagC112ZTY&8	k& ZONE-TYPE		=	COND	ITIONE	ED	
tagC114ZTY&8	k& ZONE-TYPE		=	COND	ITIONE	ED	
tagC115ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC116ZTY&8	k& ZONE-TYPE		=	COND	ITIONE	ED	
tagC117ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC118ZTY&8	& ZONE-TYPE		=	COND	ITIONE	ED	
tagC100PSC&8	k& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC101PSC&8	& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC102PSC&&	& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC103PSC&8	& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC104PSC&8	k& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC105PSC&&	k& PEOPLE-SCHED	ULE	Ξ =	"019	Bldg	Occup	Sch"
tagC106PSC&&	k& PEOPLE-SCHED	ULE	Ξ =	"019	Bldg	Occup	Sch"
tagC107PSC&8	k& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC108PSC&8	k& PEOPLE-SCHED	ULE	Ξ =	"019	Bldg	Occup	Sch"
tagC109PSC&&	k& PEOPLE-SCHED	ULE	Ξ =	"019	Bldg	Occup	Sch"
tagC110PSC&8	k& PEOPLE-SCHED	ULE	Ξ =	"019	Bldg	Occup	Sch"
tagC111PSC&&	22 PEOPLE-SCHED	ULE	Ξ =	"019	Bldg	Occup	Sch"
tagC112PSC&&	k& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC114PSC&8	k& PEOPLE-SCHED	ULE	E =	"019	Bldg	Occup	Sch"
tagC115PSC&&	k& PEOPLE-SCHED	ULE	2 =	"019	Bldg	Occup	Sch"
tagC116PSC&&	k& PEOPLE-SCHED	ULE	2 =	"019	Bldg	Occup	Sch"
tagC117PSC&&	22 PEOPLE-SCHED	ULE	Ξ =	"019	Bldg	Occup	Sch"

tagC118PSC&&& PEOPLE-SCHEDULE = "019 Bldg Occup Sch"

tagC100LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Cor	Sch")		
tagC101LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC102LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Cor	Sch")		
tagC103LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Cor	Sch")		
tagC104LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC105LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC106LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC107LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Cor	Sch")		
tagC108LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC109LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC110LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC111LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC112LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC114LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC115LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC116LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Prm	Sch")		
tagC117LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Cor	Sch")		
tagC118LSC&&&	LIGHTING-SCHEDUL	=	("019	Bldg	InsLt	Cor	Sch")		
tagC100ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Cor	Sch",			
tagC101ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC102ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Cor	Sch",			
tagC103ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Cor	Sch",			
tagC104ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC105ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC106ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC107ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Cor	Sch",			
tagC108ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC109ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC110ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC111ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC112ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC114ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC115ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC116ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Prm	Sch",			
tagC117ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Cor	Sch",			
tagC118ESC&&&	EQUIP-SCHEDULE	=	("019	Bldg	OffEq	Cor	Sch",			
tagC100ESC&&&	"019 Bldg (Off	Ec	l Cor	Sch"	,"019	Bldg	OffEq	Cor	Sch")
tagC101ESC&&&	"019 Bldg (Off	Ec	l Prm	Sch"	,"019	Bldg	OffEq	${\tt Prm}$	Sch")
tagC102ESC&&&	"019 Bldg (Off	Ec	l Cor	Sch"	,"019]	Bldg	OffEq	Cor	Sch")

tagC103ESC&&&	"019 Bldg	OffEq Cor Sch","019 Bldg OffEq Cor Sch")
tagC104ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
tagC105ESC&&&	"019 Bldg	OffEq Prm Sch", "019 Bldg OffEq Prm Sch")
tagC106ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
tagC107ESC&&&	"019 Bldg	OffEq Cor Sch","019 Bldg OffEq Cor Sch")
tagC108ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
tagC109ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
tagC110ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
tagC111ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
tagC112ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
tagC114ESC&&&	"019 Bldg	OffEq Prm Sch","019 Bldg OffEq Prm Sch")
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tagC117ESC&&&	"019 Bldg	OffEq Cor Sch","019 Bldg OffEq Cor Sch")
tagC118ESC&&&	"019 Bldg	OffEq Cor Sch","019 Bldg OffEq Cor Sch")
tagC100ISC&&&	INF-SCHEDULE	= "019 GndCor Sys1 Infil Sch"
tagC101ISC&&&	INF-SCHEDULE	= "019 GndCor Sys1 Infil Sch"
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tagC110ISC&&&		
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tagC112ISC&&&	INF-SCHEDULE	= "019 GndCor Sys1 Infil Sch"
tagC114ISC&&&	INF-SCHEDULE	= "019 GndCor Sys1 Infil Sch"
tagC115ISC&&&	INF-SCHEDULE	= "019 GndCor Sys1 Infil Sch"
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tagC101PHL kkk	PEOPLE-HG-LAT	=	200.022
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tagC108PHL&&&	PEOPLE-HG-LAT	=	200
tagC109PHI.&&&	PEOPLE-HG-I.AT	=	200
tagC110PHL&&&			_ • •
0			

tagC111PHL&&&	PEOPLE-HG-LAT	=	200
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tagC114PHL&&&	PEOPLE-HG-LAT	=	200
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tagC115PHS&&&	PEOPLE-HG-SENS	=	250
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tagC103NOP&&&			
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tagC106NOP&&&			

tagC107N0P&&& tagC108N0P&&& tagC109N0P&&& tagC110N0P&&& tagC111N0P&&& tagC112N0P&&& tagC114N0P&&& tagC115N0P&&& tagC116NOP&&& tagC117NOP&&& tagC118NOP&&&

tagC101LWA&&&LIGHTING-W/AREA = (1.11)tagC102LWA&&&LIGHTING-W/AREA = (1.63)tagC103LWA&&&LIGHTING-W/AREA = (0.95)tagC104LWA&&&LIGHTING-W/AREA = (0.63)tagC105LWA&&&LIGHTING-W/AREA = (0.56)tagC106LWA&&&LIGHTING-W/AREA = (0.86)tagC107LWA&&&LIGHTING-W/AREA = (1.33)tagC108LWA&&&LIGHTING-W/AREA = (0.95)tagC109LWA&&&LIGHTING-W/AREA = (0.95)tagC109LWA&&&LIGHTING-W/AREA = (0.95)tagC110LWA&&&LIGHTING-W/AREA = (0.95)		
tagC102LWA&&&LIGHTING-W/AREA = (1.63tagC103LWA&&&LIGHTING-W/AREA = (0.95tagC104LWA&&&LIGHTING-W/AREA = (0.63tagC105LWA&&&LIGHTING-W/AREA = (0.56tagC106LWA&&&LIGHTING-W/AREA = (0.86tagC107LWA&&&LIGHTING-W/AREA = (1.33tagC108LWA&&&LIGHTING-W/AREA = (0.95tagC109LWA&&&LIGHTING-W/AREA = (0.95tagC109LWA&&&LIGHTING-W/AREA = (0.95tagC110LWA&&&LIGHTING-W/AREA = (0.95		
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tagC110LWA&&&	· /	
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tagC112LWA&&& LIGHTING-W/AREA = (0.48		
tagC114LWA&&& LIGHTING-W/AREA = (0.72)	
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tagC100EWA&&& EQUIPMENT-W/AREA = (0.6.	0.	0
tagC101EWA&&& EQUIPMENT-W/AREA = (1.5.)	0.	0
tagC102EWA&&& EQUIPMENT-W/AREA = (0.6.)	0.	0
tagC103EWA&&& EQUIPMENT-W/AREA = (0.6.)	0,	0
tagC104EWA&&& EQUIPMENT-W/AREA = (1.5.)	0.	0
0	0	
tagC105EWA&&& EQUIPMENT-W/AREA = (1.5,	~ ,	0
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tagC105EWA&&&EQUIPMENT-W/AREA = (1.5,tagC106EWA&&&EQUIPMENT-W/AREA = (1.5,tagC107EWA&&&EQUIPMENT-W/AREA = (0.6,tagC108EWA&&&EQUIPMENT-W/AREA = (1.5,tagC109EWA&&&EQUIPMENT-W/AREA = (1.5,tagC110EWA&&&EQUIPMENT-W/AREA = (1.5,tagC111EWA&&&EQUIPMENT-W/AREA = (1.5,tagC112EWA&&&EQUIPMENT-W/AREA = (1.5,tagC114EWA&&&EQUIPMENT-W/AREA = (1.5,tagC114EWA&&&EQUIPMENT-W/AREA = (1.5,	0, 0, 0, 0, 0, 0, 0,	0 0 0 0 0 0 0 0 0
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tagC105EWA&&&EQUIPMENT-W/AREA = (1.5,tagC106EWA&&&EQUIPMENT-W/AREA = (1.5,tagC107EWA&&&EQUIPMENT-W/AREA = (0.6,tagC108EWA&&&EQUIPMENT-W/AREA = (1.5,tagC109EWA&&&EQUIPMENT-W/AREA = (1.5,tagC110EWA&&&EQUIPMENT-W/AREA = (1.5,tagC111EWA&&&EQUIPMENT-W/AREA = (1.5,tagC111EWA&&&EQUIPMENT-W/AREA = (1.5,tagC111EWA&&&EQUIPMENT-W/AREA = (1.5,tagC114EWA&&&EQUIPMENT-W/AREA = (1.5,tagC115EWA&&&EQUIPMENT-W/AREA = (1.5,tagC116EWA&&&EQUIPMENT-W/AREA = (1.5,	0, 0, 0, 0, 0, 0, 0, 0, 0,	0 0 0 0 0 0 0 0 0 0 0
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tagC102APE&&&	AREA/PERSON	= 79.7668
tagC103APE&&&	AREA/PERSON	= 79.7668
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tagC110APE&&&		
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COOL-TEMP-SCH "S1 Sys1 (PSZ) F tagC117Ewin&&& tagC117Nwin&&& tagC116Swin&&&	I = "MajSD Gnd(Can Sch"	Cor Sys1 Cool Sch"
tagC116Ewinkkk		
tagC116Nwin&&&		
0		
tagC114Nwin&&&"N	lorth Door (G.E5.H	E7.D1)" = WINDOW
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tagC114Nwin&&&		
tagC114Swin&&&"S	South Door (G.E5.H	E8.D1)" = WINDOW
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tagC114Swinkkk	FRAME-WIDTH	= 0.25

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tagC115Ewin&&&

tagC100CEI&&&"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC100CEI&&& tagC100CEI&&& LOCATION = TOP tagC100CEI&&& . . tagC101CEI&&&"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL tagC101CEI&&& CONSTRUCTION = "EL1 Roof Construction"
tagC101CEI&&& LOCATION = TOP tagC101CEI&&& ... tagC102CEI&&&"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL tagC102CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC102CEI&&& LOCATION = TOP tagC102CEI&&& . . tagC103CEI&&&"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL tagC103CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC103CEI&&& LOCATION = TOP tagC103CEI&&& . . tagC104CEI&&&"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL tagC104CEI&&& CONSTRUCTION = "EL1 Roof Construction" = TOP tagC104CEI&&& LOCATION tagC104CEI&&& . . tagC105CEI&&&"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL tagC105CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC105CEI&&& LOCATION = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC106CEI&&& = TOP tagC106CEI&&& LOCATION tagC106CEI&&& .. tagC107CEI&&&"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC107CEI&&& tagC107CEI&&& LOCATION = TOP tagC107CEI&&& . .

tagC108CEI&&&"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL tagC108CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC108CEI&&& LOCATION = TOP tagC108CEI&&& ... tagC109CEI&&&"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC109CEI&&& = TOP tagC109CEI&&& LOCATION tagC109CEI&&& ... tagC110CEI&&&"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL tagC110CEI&&& CONSTRUCTION = "EL1 Roof Construction"
tagC110CEI&&& LOCATION = TOP tagC110CEI&&& ... tagC111CEI&&&"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL tagC111CEI&&&CONSTRUCTION= "EL1 Roof Construction"tagC111CEI&&&LOCATION= TOP tagC111CEI&&& ... tagC112CEI&&&"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL tagC112CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC112CEI&&& LOCATION = TOP tagC112CEI&&& ... tagC114CEI&&&"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL tagC114CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC114CEI&&& LOCATION = TOP tagC114CEI&&& ... tagC115CEI&&&"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL tagC115CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC115CEI&&& LOCATION = TOP tagC115CEI&&& ... tagC116CEI&&&"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL tagC116CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC116CEI&&& LOCATION = TOP tagC116CEI&&& ... tagC117CEI&&&"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL tagC117CEI&&& CONSTRUCTION = "EL1 Roof Construction"

tagC117CEI&&&LOCATION= TOPtagC117CEI&&&..

tagC118CEI&&&"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
tagC118CEI&&& CONSTRUCTION = "EL1 Roof Construction"
tagC118CEI&&& LOCATION = TOP
tagC118CEI&&& ..

I.1.2 Participant 027

tagaaa&&&	DRYBULB-HIGH	= 94
tagaaa&&&	DRYBULB-RANGE	= 26
tagaab&&&	DRYBULB-HIGH	= 29
tagaac&&&	ALTITUDE	= 67
tagEWALL&&&	ROUGHNESS	= 1
tagEWALL&&&	LAYERS	= "EL1 EWall Cons Layers"
tagIWALL&&&	TYPE	= U-VALUE
tagIWALL&&&	U-VALUE	= 2.7
tagbb1&&&		
tagcc1&&&	PROCESS-FLOW	= (0.0373802)
tagcc1&&&	PROCESS-SCH	= ("027 DHW Eqp NRes Sch")
tagcc2&&&	TYPE	= GAS
tagcc2&&&	TANK-VOLUME	= 10.1532
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tagcc2&&&	HIR-FPLR	= "DW-Gas-Pilotless-HIR-fPLR"
tagcc2&&&	TANK-UA	= 0.42305
tagcc2&&&	LOCATION	= ZONE
tagcc2&&&	ZONE-NAME	= "EL1 Core Zn (G.C17)"
tagcc2&&&	DHW-LOOP	= "DHW Plant 1 Loop (1)"
tagcc2&&&	C-ENERGY-FACTOR	= 0.600709
tagHEI&&&	FLOOR-HEIGHT	= 12
tagHEI&&&	SPACE-HEIGHT	= 9
tagC100ZTY&8	& ZONE-TYPE	= CONDITIONED
tagC101ZTY&&	& ZONE-TYPE	= CONDITIONED
tagC102ZTY&&	& ZONE-TYPE	= CONDITIONED

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tagC104ZTY&&&	ZONE-TYPE	=	CONDITIONED	
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tagC107ZTY&&&	ZONE-TYPE	=	CONDITIONED	
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tagC118ZTY&&&	ZONE-TYPE	=	CONDITIONED	
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tagC101PSC&&&	PEOPLE-SCHEDULE	=	"027 Bldg Occup Sch"	
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tagC118PSC&&&	PEOPLE-SCHEDULE	=	"027 Bldg Occup Sch"	
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tagC101LSC&&&	LIGHTING-SCHEDUL	=	("027 Bldg InsLt Sch")	
tagC102LSC&&&	LIGHTING-SCHEDUL	=	("027 Bldg InsLt Sch")	
tagC103LSC&&&	LIGHTING-SCHEDUL	=	("027 Bldg InsLt Sch")	
tagC104LSC&&&	LIGHTING-SCHEDUL	=	("027 Bldg InsLt Sch")	
tagC105LSC&&&	LIGHTING-SCHEDUL	=	("027 Bldg InsLt Sch")	
tagC106LSC&&&	LIGHTING-SCHEDUL	=	("027 Bldg InsLt Sch")	

tagC107LSC&&&	LIGHTING-SCHEDUL = ("027 Bldg InsLt Sch")	
tagC108LSC&&&	LIGHTING-SCHEDUL = ("027 Bldg InsLt Sch")	
tagC109LSC&&&	LIGHTING-SCHEDUL = ("027 Bldg InsLt Sch")	
tagC110LSC&&&	LIGHTING-SCHEDUL = ("027 Bldg InsLt Sch")	
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tagC118ESC&&&	EQUIP-SCHEDULE = ("027 Bldg Misc Sch",	
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tagC102ESC&&&	"027 Bldg OffEq Sch", "027 Bldg OffEq Sch")
tagC103ESC&&&	"027 Bldg OffEq Sch", "027 Bldg OffEq Sch")
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tagC107ESC&&&	"027 Bldg Misc Sch", "027 Bldg Misc Sch")	
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tagC110ESC&&&	"027 Bldg OffEq Sch", "027 Bldg OffEa Sch")
tagC111ESC&&&	"027 Bldg OffEq Sch", "027 Bldg OffEq Sch")
-		

tagC112ESC&&&	"027 Bldg	Off	fEq S	ch","027	Bldg	OffEq	Sch")
tagC114ESC&&&	"027 Bldg	Off	fEq S	ch","027	Bldg	OffEq	Sch")
tagC115ESC&&&	"027 Bldg	Off	fEq S	ch","027	Bldg	OffEq	Sch")
tagC116ESC&&&	"027 Bldg	Off	fEq S	ch","027	Bldg	OffEq	Sch")
tagC117ESC&&&	"027 Bldg	Off	fEq S	ch","027	Bldg	OffEq	Sch")
tagC118ESC&&&	"027 Bldg	Off	fEq S	ch","027	Bldg	OffEq	Sch")
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tagC101ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
tagC102ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
tagC103ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
tagC104ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
tagC105ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
tagC106ISC&&&	INF-SCHEDULE	=	"027	ZG4-S1	(PSZ)	C-Inf	Sch"	
tagC107ISC&&&	INF-SCHEDULE	=	"027	ZG4-S1	(PSZ)	C-Inf	Sch"	
tagC108ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
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tagC114ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
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tagC116ISC&&&	INF-SCHEDULE	=	"027	ZGO-S1	(PSZ)	C-Inf	Sch"	
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tagC101IME&&&	INF-METHOD	=	AIR-	CHANGE				
tagC102IME&&&	INF-METHOD	=	AIR-	CHANGE				
tagC103IME&&&	INF-METHOD	=	AIR-	CHANGE				
tagC104IME&&&	INF-METHOD	=	AIR-	CHANGE				
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tagC108IME&&&	INF-METHOD	=	AIR-	CHANGE				
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tagC114IME&&&	INF-METHOD	=	AIR-	CHANGE				
tagC115IME&&&	INF-METHOD	=	AIR-	CHANGE				
tagC116IME&&&	INF-METHOD	=	AIR-	CHANGE				

)))

tagC117IME&&&	INF-METHOD	=	AIR-CHANGE
tagC118IME&&&	INF-METHOD	=	AIR-CHANGE
C			
tagC100IFA&&&	INF-FLOW/AREA	=	0.001
tagC101IFA&&&	INF-FLOW/AREA	=	0.001
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tagC109IFA&&&	INF-FLOW/AREA	=	0.001
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tagC117IFA&&&	INF-FLOW/AREA	=	0.001
tagC118IFA&&&	INF-FLOW/AREA	=	0.001
tagC100PHL&&&	PEOPLE-HG-LAT	=	250
tagC101PHL&&&	PEOPLE-HG-LAT	=	250
tagC102PHL&&&	PEOPLE-HG-LAT	=	250
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tagC106PHL&&&	PEOPLE-HG-LAT	=	250
tagC107PHL&&&	PEOPLE-HG-LAT	=	250
tagC108PHL&&&	PEOPLE-HG-LAT	=	250
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tagC111PHL&&&	PEOPLE-HG-LAT	=	250
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tagC115PHL&&&	PEOPLE-HG-LAT	=	250
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tagC118PHL&&&	PEOPLE-HG-LAT	=	250
tagC100PHS&&&	PEOPLE-HG-SENS	=	250

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tagC105PHS&&&	PEOPLE-HG-SENS	= 250	
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tagC118NOP&&&			
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tagC103LWA&&&	LIGHTING-W/AREA	= (1.96809)	
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tagC100EWA&&&	EQUITPMENT-W/ABEA	=	(0.361 0.0.166)
tagC101FWA&&&	EQUITMENT W/AREA	=	(0.361, 0, 0.166)
tagC102FWA&&&	EQUITMENT W/MMEA	=	(0.361, 0, 0.166)
tagC103FWAkkk	FOUTPMENT-W/ARFA	=	(0.361, 0, 0.166)
tagC104FWAkkk	EQUITMENT W /AREA	=	(0.361, 0, 0.166)
tagO104EWA&&&	FOULTPMENT-W/AREA	=	(0.361, 0, 0.166)
tagC106FWAkkk	EQUITMENT W /AREA	=	(0.301, 0, 0.100)
tagC107FWAkkk	EQUITMENT W/AREA	_	(0.1, 0, 0)
tagC108EWA&&&	EQUITMENT W/AREA	_	(0.1, 0, 0)
tagC100EWA&&&	EQUITMENT W/AREA	_	(0.361, 0, 0.166)
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tagC111EWA&&&	EQUITMENT W/AREA	_	(0.301, 0, 0.100)
tagCIIIEWA&&&	EQUIPMENI ⁻ W/AREA	_	(0.301, 0, 0.100)
tagCIIZEWA&&&	EQUIPMENI-W/AREA	_	(0.301, 0, 0.100)
tagC114EWA&&&	EQUIPMENI-W/AREA	_	(0.301, 0, 0.100)
	EQUIPMENI-W/AREA	_	(0.361, 0, 0.166)
	EQUIPMENI-W/AREA	_	(0.361, 0, 0.166)
	EQUIPMENI-W/AREA	=	(0.361, 0, 0.166)
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tagC100APE&&&	AREA/PERSON	=	138.236
tagC101APE&&&	AREA/PERSON	=	138.236
tagC102APE&&&	AREA/PERSON	=	138.236
tagC103APE&&&	AREA/PERSON	=	138.236
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tagC107APE&&&	AREA/PERSON	=	2000.00
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0	,		

tagC109APE&&& AREA/PERSON = 138.236 tagC110APE&&& AREA/PERSON = 138.236 tagC111APE&&& = 138.236 AREA/PERSON tagC112APE&&& = 138.236 AREA/PERSON tagC114APE&&& AREA/PERSON = 138.236 tagC115APE&&& AREA/PERSON = 138.236 tagC116APE&&& AREA/PERSON = 138.236 tagC117APE&&& AREA/PERSON = 138.236 tagC118APE&&& AREA/PERSON = 138.236 = "027 Sys1 (PSZ) Heat Sch" HEAT-TEMP-SCH COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch" "027 S1 Sys1 (PSZ) Fan Sch" "027 S5 Sys5 (PSZ) Fan Sch" tagC117Ewin&&& tagC117Nwin&&& tagC116Swin&&& tagC116Ewin&&& tagC116Nwin&&& tagC114Nwin&&& tagC114Swin&&& tagC114Ewin&&& tagC111Swin&&& tagC110Swin&&& tagC109Ewin&&& tagC109Wwin&&& tagC109Swin&&& tagC108swin&&& tagC108Swin&&& tagC108Wwin&&& tagC106Wwin&&& tagC105Wwin&&& tagC104Nwin&&& tagC104Wwin&&& tagC101Wwin&&& tagC101Nwin&&& tagC100Nwin&&& tagC115Ewin&&& tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL

tagC100CEI&&&

NEXT-TO

= "C100 Plnm (G.N34)"

tagC100CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC100CEI&&& LOCATION tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL tagC101CEI&&& NEXT-TO = "C101 Plnm (G.NW33)" CONSTRUCTION = "EL1 Ceilg Construction" tagC101CEI&&& LOCATION = TOP tagC101CEI&&& tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL NEXT-TO = "C102 Plnm (G.C35)" CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& tagC102CEI&&& tagC102CEI&&& LOCATION = TOP tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC103CEI&&& tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL tagC104CEI&&& NEXT-TO = "C104 Plnm (G.WNW32)" CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC104CEI&&& tagC104CEI&&& tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL NEXT-TO = "C105 Plnm (G.W29)" tagC105CEI&&& tagC105CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC105CEI&&& tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL tagC106CEI&&& NEXT-TO = "C106 Plnm (G.W27)" tagC106CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC106CEI&&& tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&&

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tagC115CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC115CEI&&& LOCATION tagC115CEI&&& . . tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)" CONSTRUCTION = "EL1 Ceilg Construction" tagC116CEI&&& LOCATION = TOP tagC116CEI&&& tagC116CEI&&& • • tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL NEXT-TO = "C117 Plnm (G.NE19)" tagC117CEI&&& = "EL1 Ceilg Construction" tagC117CEI&&& CONSTRUCTION tagC117CEI&&& LOCATION = TOP tagC117CEI&&& . . tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALL = "minifoyer Plnm (G.C30)" tagC118CEI&&& NEXT-TO tagC118CEI&&& = "EL1 Ceilg Construction" CONSTRUCTION LOCATION = TOP tagC118CEI&&& tagC118CEI&&& . . I.1.3 Participant 379 = 94 tagaaa&&& DRYBULB-HIGH

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tagC109N0P&&& tagC109N0P&&& tagC110NOP&&& tagC111NOP&&& tagC112NOP&&& tagC114NOP&&& tagC115NOP&&& tagC116NOP&&& tagC117NOP&&& tagC118NOP&&& tagC100LWA&&& LIGHTING-W/AREA = (1.19394)tagC101LWA&&& LIGHTING-W/AREA = (1.19394)tagC102LWA&&& LIGHTING-W/AREA = (1.19394)tagC103LWA&&& LIGHTING-W/AREA = (1.19394)tagC104LWA&&& LIGHTING-W/AREA = (1.19394)LIGHTING-W/AREA = (1.19394)tagC105LWA&&& tagC106LWA&&& LIGHTING-W/AREA = (1.19394)tagC107LWA&&& LIGHTING-W/AREA = (0.60000)tagC108LWA&&& LIGHTING-W/AREA = (1.19394)tagC109LWA&&& LIGHTING-W/AREA = (1.19394)tagC110LWA&&& LIGHTING-W/AREA = (1.19394)tagC111LWA&&& LIGHTING-W/AREA = (1.19394)tagC112LWA&&& LIGHTING-W/AREA = (1.19394)tagC114LWA&&& LIGHTING-W/AREA = (0.95670)tagC115LWA&&& LIGHTING-W/AREA = (1.19394)LIGHTING-W/AREA = (1.04138)tagC116LWA&&& LIGHTING-W/AREA = (1.04138)tagC117LWA&&& tagC118LWA&&& LIGHTING-W/AREA = (1.19394)tagC100EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC101EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC102EWA&&& tagC103EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC104EWA&&& tagC105EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC106EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)EQUIPMENT-W/AREA = (0.2, 0, 0)tagC107EWA&&& tagC108EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC109EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC110EWA&&& tagC111EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC112EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)tagC114EWA&&& EQUIPMENT-W/AREA = (1.24295, 0, 0)

tagC115EWA&&&	EQUIPMENT-W/AREA	A = (1.24295, 0, 0)
tagC116EWA&&&	EQUIPMENT-W/AREA	A = (1.24295, 0, 0)
tagC117EWA&&&	EQUIPMENT-W/AREA	A = (1.24295, 0, 0)
tagC118EWA&&&	EQUIPMENT-W/AREA	A = (1.24295, 0, 0)
tagC100APE&&&	AREA/PERSON	= 141.887
tagC101APE&&&	AREA/PERSON	= 141.887
tagC102APE&&&	AREA/PERSON	= 141.887
tagC103APE&&&	AREA/PERSON	= 141.887
tagC104APE&&&	AREA/PERSON	= 141.887
tagC105APE&&&	AREA/PERSON	= 141.887
tagC106APE&&&	AREA/PERSON	= 141.887
tagC107APE&&&	AREA/PERSON	= 150
tagC108APE&&&	AREA/PERSON	= 141.887
tagC109APE&&&	AREA/PERSON	= 141.887
tagC110APE&&&	AREA/PERSON	= 141.887
tagC111APE&&&	AREA/PERSON	= 141.887
tagC112APE&&&	AREA/PERSON	= 141.887
tagC114APE&&&	AREA/PERSON	= 141.887
tagC115APE&&&	AREA/PERSON	= 141.887
tagC116APE&&&	AREA/PERSON	= 141.887
tagC117APE&&&	AREA/PERSON	= 141.887
tagC118APE&&&	AREA/PERSON	= 141.887
HEAT-TEMP-SC	H = "MajSD Gno	lCor Sys1 Heat Sch"
COOL-TEMP-SC	H = "MajSD Gno	lCor Sys1 Cool Sch"
"S1 Sys1 (PSZ) 1	Fan Sch"	
		_
tagC117Ewin&&&"	East Win (G.ENE7	E17.W1)'' = WINDOW
tagC117Ewin&&&	GLASS-TYPE	= "379 Window Type #1 GT"
tagC117Ewin&&&	FRAME-WIDTH	= 0
tagC117Ewin&&&	Х	= 5.39623
tagC117Ewin&&&	Y	= 2.84906
tagC117Ewin&&&	HEIGHT	= 4
tagC117Ewin&&&	WIDTH	= 5
tagC117Ewin&&&	FRAME-CONDUCT	= 2.781
tagC117Ewin&&&	••	
tagC11/Nwin&&&"	North Win (G.ENE)	Y.E18.W1)" = WINDOW
tagC117Nwin&&&	GLASS-TYPE	= "379 Window Type #1 GT"
tagC117Nwin&&&	FRAME-WIDTH	= 0.108333

tagC117Nwin&&&	Х	= 3.50833
tagC117Nwin&&&	Y	= 2.70833
tagC117Nwin&&&	HEIGHT	= 3.78333
tagC117Nwin&&&	WIDTH	= 4.78333
tagC117Nwin&&&	FRAME-CONDUCT	= 2.781
tagC117Nwin&&&		
tagC116Swin&&&		
tagC116Ewin&&&"l	East Win (G.ENE7.	E15.W1)" = WINDOW
tagC116Ewin&&&	GLASS-TYPE	= "379 Window Type #1 GT"
tagC116Ewin&&&	FRAME-WIDTH	= 0.25
tagC116Ewin&&&	Х	= 3.23113
tagC116Ewin&&&	Y	= 2.81604
tagC116Ewin&&&	HEIGHT	= 3.5
tagC116Ewin&&&	WIDTH	= 3.5
tagC116Ewin&&&	FRAME-CONDUCT	= 2.781
tagC116Ewin&&&		
tagC116Ewin&&&"l	East Door (G.ENE7	'.E15.D1)" = DOOR
tagC116Ewin&&&	CONSTRUCTION	= "Sgl Lyr Unins Mtl Door"
tagC116Ewin&&&	Х	= 12.1887
tagC116Ewin&&&	HEIGHT	= 7
tagC116Ewin&&&	WIDTH	= 4
tagC116Ewin&&&		
tagC116Nwin&&&"l	North Win (G.ENE7	'.E16.W1)" = WINDOW
tagC116Nwin&&&	GLASS-TYPE	= "379 Window Type #1 GT"
tagC116Nwin&&&	FRAME-WIDTH	= 0.108333
tagC116Nwin&&&	Х	= 0.633485
tagC116Nwin&&&	Y	= 3.10833
tagC116Nwin&&&	HEIGHT	= 4.78333
tagC116Nwin&&&	WIDTH	= 2.78333
tagC116Nwin&&&	FRAME-CONDUCT	= 2.781
tagC116Nwin&&&		
tagC114Nwin&&&"l	North Win (G.E8.E	220.W1)" = WINDOW
tagC114Nwin&&&	GLASS-TYPE	= "379 Window Type #1 GT"
tagC114Nwin&&&	FRAME-WIDTH	= 0.108333
tagC114Nwin&&&	Х	= 0.620871
tagC114Nwin&&&	Y	= 3.10833
tagC114Nwin&&&	HEIGHT	= 4.78333
tagC114Nwin&&&	WIDTH	= 2.78333

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tagC114Nwin&&&
                FRAME-CONDUCT
                               = 2.781
tagC114Nwin&&&
                . .
tagC114Nwin&&&"North Win (G.E8.E20.W2)" = WINDOW
                GLASS-TYPE = "379 Window Type #1 GT"
tagC114Nwin&&&
tagC114Nwin&&& FRAME-WIDTH
                              = 0.108333
tagC114Nwin&&& X
                              = 4.64595
tagC114Nwin&&&
               Y
                               = 3.10833
tagC114Nwin&&& HEIGHT
                               = 4.78333
               WIDTH
tagC114Nwin&&&
                               = 2.78333
               FRAME-CONDUCT = 2.781
tagC114Nwin&&&
tagC114Nwin&&&
                . .
tagC114Swin&&&"South Win (G.E8.E21.W1)" = WINDOW
tagC114Swin&&&
                GLASS-TYPE = "379 Window Type #1 GT"
               FRAME-WIDTH
tagC114Swin&&&
                               = 0.25
tagC114Swin&&& X
                               = 4.51
                               = 3.29
tagC114Swin&&&
              Y
                              = 3.5
tagC114Swin&&& HEIGHT
tagC114Swin&&&
               WIDTH
                               = 3.5
               FRAME-CONDUCT = 2.781
tagC114Swin&&&
tagC114Swin&&&
                . .
tagC114Ewin&&&"East Win (G.E8.E19.W1)" = WINDOW
tagC114Ewin&&&
               GLASS-TYPE = "379 Window Type #1 GT"
tagC114Ewin&&& FRAME-WIDTH
                              = 0.25
                               = 10.4
tagC114Ewin&&& X
tagC114Ewin&&& Y
                               = 2.48
tagC114Ewin&&&
               HEIGHT
                              = 3.5
               WIDTH
tagC114Ewin&&&
                               = 4.5
                FRAME-CONDUCT
tagC114Ewin&&&
                               = 2.781
tagC114Ewin&&&
                . .
tagC114Ewin&&&"East Door (G.E8.E19.D1)" = DOOR
tagC114Ewin&&&
                CONSTRUCTION
                               = "Sgl Lyr Unins Mtl Door"
tagC114Ewin&&&
               Х
                               = 2.38
tagC114Ewin&&&
               HEIGHT
                               = 7
                               = 4
tagC114Ewin&&&
                WIDTH
tagC114Ewin&&&
                . .
tagC111Swin&&&
tagC110Swin&&&"South Door (G.S5.E12.D1)" = DOOR
tagC110Swin&&&
               CONSTRUCTION
                               = "Sgl Lyr Unins Mtl Door"
```
tagC110Swin&&& Х = 0.867924 tagC110Swin&&& = 7 HEIGHT tagC110Swin&&& WIDTH = 4 tagC110Swin&&& . . tagC109Ewin&&&"East Door (G.SW4.E9.D1)" = WINDOW tagC109Ewin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC109Ewin&&& FRAME-WIDTH = 0.25 = 6.25tagC109Ewin&&& Х tagC109Ewin&&& Y = 3.25HEIGHT = 3.5tagC109Ewin&&& WIDTH = 4.5 tagC109Ewin&&& tagC109Ewin&&& = 3.079FRAME-CONDUCT tagC109Ewin&&& . . tagC109Wwin&&&"West Win (G.SW4.E7.W1)" = WINDOW tagC109Wwin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC109Wwin&&& FRAME-WIDTH = 0.25tagC109Wwin&&& = 7.34 Х Y = 3.17tagC109Wwin&&& tagC109Wwin&&& HEIGHT = 3.5 tagC109Wwin&&& WIDTH = 4.5FRAME-CONDUCT = 2.781 tagC109Wwin&&& tagC109Wwin&&& . . tagC109Swin&&&"South Door (G.SW4.E8.D1)" = WINDOW tagC109Swin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC109Swin&&& FRAME-WIDTH = 0.25 tagC109Swin&&& Х = 5.25 tagC109Swin&&& = 0.25Y tagC109Swin&&& HEIGHT = 3.5 tagC109Swin&&& WIDTH = 5.5 tagC109Swin&&& FRAME-CONDUCT = 3.079 tagC109Swin&&& . . tagC108swin&&& tagC108Swin&&&"South Door (G.SW4.E10.D1)" = DOOR tagC108Swin&&& CONSTRUCTION = "Sgl Lyr Unins Mtl Door" tagC108Swin&&& = 0.981132Х tagC108Swin&&& HEIGHT = 7 = 3 tagC108Swin&&& WIDTH

tagC108Swin&&& . . tagC108Wwin&&&"West Door (G.SW4.E11.D1)" = WINDOW GLASS-TYPE tagC108Wwin&&& = "379 Window Type #1 GT" tagC108Wwin&&& FRAME-WIDTH = 0.25 tagC108Wwin&&& X = 8.25 tagC108Wwin&&& Y = 3.25 tagC108Wwin&&& HEIGHT = 3.5 tagC108Wwin&&& WIDTH = 5.5 FRAME-CONDUCT tagC108Wwin&&& = 3.079 tagC108Wwin&&& . . tagC106Wwin&&&"West Door (G.W2.E5.D1)" = DOOR tagC106Wwin&&& CONSTRUCTION = "Sgl Lyr Unins Mtl Door" = 3.84906 tagC106Wwin&&& Х tagC106Wwin&&& HEIGHT = 7 = 4 tagC106Wwin&&& WIDTH tagC106Wwin&&& . . tagC105Wwin&&&"West Win (G.WNW1.E3.W1)" = WINDOW GLASS-TYPE = "379 Window Type #1 GT" tagC105Wwin&&& tagC105Wwin&&& FRAME-WIDTH = 0.0833333 tagC105Wwin&&& X = 2.4333 tagC105Wwin&&& Y = 3.08333 tagC105Wwin&&& HEIGHT = 3.83333 tagC105Wwin&&& WIDTH = 4.83333tagC105Wwin&&& FRAME-CONDUCT = 2.781tagC105Wwin&&& . . tagC104Nwin&&&"North Win (G.WNW1.E2.W1)" = WINDOW tagC104Nwin&&& = "379 Window Type #1 GT" GLASS-TYPE tagC104Nwin&&& FRAME-WIDTH = 0.108333 tagC104Nwin&&& X = 0.108333 tagC104Nwin&&& Y = 3.10833tagC104Nwin&&& HEIGHT = 4.78333 tagC104Nwin&&& WIDTH = 2.78333 FRAME-CONDUCT tagC104Nwin&&& = 2.781 tagC104Nwin&&& . . tagC104Wwin&&&

tagC101Wwin&&&"West Win (G.WNW1.E1.W1)" = WINDOW

tagC101Wwin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC101Wwin&&& = 0.0833333FRAME-WIDTH tagC101Wwin&&& = 3.78145Х Y tagC101Wwin&&& = 2.27201 tagC101Wwin&&& HEIGHT = 3.83333 tagC101Wwin&&& = 2.83333 WIDTH FRAME-CONDUCT tagC101Wwin&&& = 2.781 tagC101Wwin&&& . . tagC101Nwin&&&"North Win (G.WNW1.E4.W1)" = WINDOW tagC101Nwin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC101Nwin&&& FRAME-WIDTH = 0.108333 tagC101Nwin&&& = 4.80833 Х tagC101Nwin&&& Y = 3.10833 tagC101Nwin&&& HEIGHT = 3.78333tagC101Nwin&&& WIDTH = 4.78333 tagC101Nwin&&& FRAME-CONDUCT = 2.781 tagC101Nwin&&& . . tagC100Nwin&&&"North Win (G.N9.E22.W1)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.108333 tagC100Nwin&&& Х = 0.898333 tagC100Nwin&&& Y = 3.10833HEIGHT tagC100Nwin&&& = 3.78333 tagC100Nwin&&& WIDTH = 2.78333tagC100Nwin&&& FRAME-CONDUCT = 2.781 tagC100Nwin&&& . . tagC100Nwin&&&"North Win (G.N9.E22.W2)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.108333tagC100Nwin&&& = 13.4683Х tagC100Nwin&&& Y = 3.14833 tagC100Nwin&&& HEIGHT = 3.78333tagC100Nwin&&& WIDTH = 2.78333 tagC100Nwin&&& FRAME-CONDUCT = 2.781 tagC100Nwin&&& . . tagC100Nwin&&&"North Door (G.N9.E22.D1)" = WINDOW tagC100Nwin&&& = "379 Window Type #1 GT" GLASS-TYPE tagC100Nwin&&& = 0.25 FRAME-WIDTH tagC100Nwin&&& Х = 5.825 tagC100Nwin&&& Y = 0.25

tagC100Nwin&&& HEIGHT = 6.5 tagC100Nwin&&& WIDTH = 5.5 tagC100Nwin&&& FRAME-CONDUCT = 3.079 tagC100Nwin&&& . . tagC115Ewin&&&"East Door (G.E10.E23.D1)" = WINDOW tagC115Ewin&&& GLASS-TYPE = "379 Window Type #1 GT" tagC115Ewin&&& FRAME-WIDTH = 0.25 tagC115Ewin&&& X = 2.25tagC115Ewin&&& Y = 0.25 tagC115Ewin&&& HEIGHT = 6.5 tagC115Ewin&&& WIDTH = 7.5 tagC115Ewin&&& FRAME-CONDUCT = 3.079 tagC115Ewin&&& . . tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL tagC100CEI&&& NEXT-TO = "C100 Plnm (G.N34)" tagC100CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC100CEI&&& tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL = "C101 Plnm (G.NW33)" tagC101CEI&&& NEXT-TO tagC101CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC101CEI&&& LOCATION = TOP tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& LOCATION = TOP tagC102CEI&&& tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL tagC103CEI&&& NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC103CEI&&& LOCATION = TOP tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL tagC104CEI&&& NEXT-TO = "C104 Plnm (G.WNW32)" tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"

tagC104CEI&&& LOCATION = TOP tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL tagC105CEI&&& NEXT-TO = "C105 Plnm (G.W29)" CONSTRUCTION = "EL1 Ceilg Construction" tagC105CEI&&& tagC105CEI&&& LOCATION = TOPtagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL = "C106 Plnm (G.W27)" NEXT-TO tagC106CEI&&& tagC106CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC106CEI&&& LOCATION tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL NEXT-TO tagC107CEI&&& = "C107 Plnm (G.C28)" tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC107CEI&&& tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL = "C108 Plnm (G.WSW26)" tagC108CEI&&& NEXT-TO tagC108CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC108CEI&&& LOCATION = TOP tagC108CEI&&& . . tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL NEXT-TO = "C109 Plnm (G.S25)" tagC109CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC109CEI&&& LOCATION = TOP tagC109CEI&&& tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL tagC110CEI&&& NEXT-TO = "C110 Plnm (G.S23)" tagC110CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC110CEI&&& = TOP LOCATION tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL tagC111CEI&&& NEXT-TO = "C111 Plnm (G.S22)" tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"

tagC111CEI&&& LOCATION = TOP tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL = "C112 C113 Plnm (G.C24)" tagC112CEI&&& NEXT-TO tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC112CEI&&& LOCATION = TOP tagC112CEI&&& . . tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL NEXT-TO = "C114 Plnm (G.E21)" tagC114CEI&&& tagC114CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC114CEI&&& LOCATION tagC114CEI&&& . . tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL tagC115CEI&&& NEXT-TO = "C115 Plnm (G.E36)" CONSTRUCTION = "EL1 Ceilg Construction" tagC115CEI&&& LOCATION tagC115CEI&&& = TOP tagC115CEI&&& . . tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)" CONSTRUCTION = "EL1 Ceilg Construction" tagC116CEI&&& LOCATION tagC116CEI&&& = TOP tagC116CEI&&& . . tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL NEXT-TO = "C117 Plnm (G.NE19)"tagC117CEI&&& = "EL1 Ceilg Construction" tagC117CEI&&& CONSTRUCTION LOCATION tagC117CEI&&& = TOP tagC117CEI&&& . . tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALL tagC118CEI&&& NEXT-TO = "minifoyer Plnm (G.C30)" = "EL1 Ceilg Construction" tagC118CEI&&& CONSTRUCTION = TOP tagC118CEI&&& LOCATION tagC118CEI&&& . .

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tagaaa&&& DRYBULB-HIGH = 94

tagaaa&&& DRYBULB-RANGE = 26 tagaab&&& = 29 DRYBULB-HIGH = 67 tagaac&&& ALTITUDE tagEWALL&&& ROUGHNESS = 1 tagEWALL&&& LAYERS = "437 EWall Cons Layers" TYPE = LAYERS tagIWALL&&& tagIWALL&&& LAYERS = "437 IWall Cons Layers" tagbb1&&& = (0.0316201)tagcc1&&& PROCESS-FLOW tagcc1&&& PROCESS-SCH = ("437 DHW Eqp NRes Sch") tagcc2&&& TYPE = GAS = 8.50435 = 0.0113346 = 8.50435 tagcc2&&& TANK-VOLUME tagcc2&&& CAPACITY = "DW-Gas-Pilotless-HIR-fPLR" tagcc2&&& HIR-FPLR = 0.354348 tagcc2&&& TANK-UA tagcc2&&& LOCATION = ZONE = "EL1 Core Zn (G.C17)" tagcc2&&& ZONE-NAME DHW-LOOP tagcc2&&& = "DHW Plant 1 Loop (1)" tagcc2&&& C-ENERGY-FACTOR = 0.603842= 13 tagHEI&&& FLOOR-HEIGHT = 9 tagHEI&&& SPACE-HEIGHT tagC100ZTY&&& ZONE-TYPE = CONDITIONED tagC101ZTY&&& ZONE-TYPE = CONDITIONED tagC102ZTY&&& ZONE-TYPE = CONDITIONED tagC103ZTY&&& = CONDITIONED ZONE-TYPE tagC104ZTY&&& ZONE-TYPE = CONDITIONED tagC105ZTY&&& ZONE-TYPE = CONDITIONED tagC106ZTY&&& ZONE-TYPE = CONDITIONED tagC107ZTY&&& ZONE-TYPE = CONDITIONED = CONDITIONED tagC108ZTY&&& ZONE-TYPE ZONE-TYPE = CONDITIONED tagC109ZTY&&& = CONDITIONED tagC110ZTY&&& ZONE-TYPE tagC111ZTY&&& = CONDITIONED ZONE-TYPE tagC112ZTY&&& ZONE-TYPE = CONDITIONED ZONE-TYPE tagC114ZTY&&& = CONDITIONED

tagC115ZTY&&&	ZONE-TYPE	=	COND	ITION	ED		
tagC116ZTY&&&	ZONE-TYPE	=	COND	ITION	ED		
tagC117ZTY&&&	ZONE-TYPE	=	COND	ITION	ED		
tagC118ZTY&&&	ZONE-TYPE	=	COND	ITION	ED		
tagC100PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC101PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC102PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC103PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC104PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC105PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC106PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC107PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC108PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC109PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC110PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC111PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC112PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC114PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC115PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC116PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC117PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC118PSC&&&	PEOPLE-SCHEDULE	=	"437	Bldg	Occu	p S	ch"
tagC100LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC101LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC102LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC103LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC104LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC105LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC106LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC107LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC108LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC109LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC110LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC111LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC112LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC114LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC115LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC116LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC117LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'
tagC118LSC&&&	LIGHTING-SCHEDUL	=	("4	37 Blo	dg In	sLt	Sch'

))))))))))))))))))

tagC100ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC101ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC102ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC103ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC104ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC105ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC106ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC107ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC108ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC109ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC110ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC111ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC112ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC114ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC115ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC116ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC117ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC118ESC&&&	EQUIP-SCHEDULE	= ("437 Bldg OffEq	Sch",
tagC100ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC101ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC102ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC103ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC104ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC105ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC106ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC107ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC108ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC109ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC110ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC111ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC112ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC114ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC115ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC116ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC117ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC118ESC&&&	"437 Bldg	OffEq Sch","437 Bldg	OffEq Sch")
tagC100ISC&&&	INF-SCHEDULE	= "437 ZGO-S1 (PSZ)	P-Inf Sch"
tagC101ISC&&&	INF-SCHEDULE	= "437 ZGO-S1 (PSZ)	P-Inf Sch"
tagC102ISC&&&	INF-SCHEDULE	= "437 ZGO-S1 (PSZ)	C-Inf Sch"
tagC103ISC&&&	INF-SCHEDULE	= "437 ZGO-S1 (PSZ)	P-Inf Sch"

tagC104ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	Sch"
tagC105ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	$\operatorname{Sch}"$
tagC106ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	Sch"
tagC107ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	Sch"
tagC108ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	Sch"
tagC109ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	Sch"
tagC110ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	Sch"
tagC111ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	$\operatorname{Sch}"$
tagC112ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	$\operatorname{Sch}"$
tagC114ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	$\operatorname{Sch}"$
tagC115ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	$\operatorname{Sch}"$
tagC116ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	$\operatorname{Sch}"$
tagC117ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	P-Inf	$\operatorname{Sch}"$
tagC118ISC&&&	INF-SCHEDULE	=	"437	ZGO-S1	(PSZ)	C-Inf	$\operatorname{Sch}"$
tagC100IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC101IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC102IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC103IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC104IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC105IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC106IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC107IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC108IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC109IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC110IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC111IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC112IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC114IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC115IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC116IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC117IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC118IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC100IFA&&&	INF-FLOW/AREA	=	0.03	28588			
tagC101IFA&&&	INF-FLOW/AREA	=	0.03	28588			
tagC102IFA&&&	INF-FLOW/AREA	=	0.00	1			
tagC103IFA&&&	INF-FLOW/AREA	=	0.03	14677			
tagC104IFA&&&	INF-FLOW/AREA	=	0.030	00766			
tagC105IFA&&&	INF-FLOW/AREA	=	0.030	0766			
tagC106IFA&&&	INF-FLOW/AREA	=	0.030	00766			
tagC107IFA&&&	INF-FLOW/AREA	=	0.030	00766			

tagC108IFA&&&	INF-FLOW/AREA	= 0.031467
tagC109IFA&&&	INF-FLOW/AREA	= 0.08075
tagC110IFA&&&	INF-FLOW/AREA	= 0.0328588
tagC111IFA&&&	INF-FLOW/AREA	= 0.03
tagC112IFA&&&	INF-FLOW/AREA	= 0.0169294
tagC114IFA&&&	INF-FLOW/AREA	= 0.0300766
tagC115IFA&&&	INF-FLOW/AREA	= 0.0300766
tagC116IFA&&&	INF-FLOW/AREA	= 0.0300766
tagC117IFA&&&	INF-FLOW/AREA	= 0.031467
tagC118IFA&&&	INF-FLOW/AREA	= 0.001
tagC100PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC101PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC102PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC103PHL&&&	PEOPLE-HG-LAT	= 205.67
tagC104PHL&&&	PEOPLE-HG-LAT	= 211.34
tagC105PHL&&&	PEOPLE-HG-LAT	= 211.34
tagC106PHL&&&	PEOPLE-HG-LAT	= 211.34
tagC107PHL&&&	PEOPLE-HG-LAT	= 211.34
tagC108PHL&&&	PEOPLE-HG-LAT	= 211.34
tagC109PHL&&&	PEOPLE-HG-LAT	= 250.00
tagC110PHL&&&	PEOPLE-HG-LAT	= 211.34
tagC111PHL&&&	PEOPLE-HG-LAT	= 211.34
tagC112PHL&&&	PEOPLE-HG-LAT	= 205.67
tagC114PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC115PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC116PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC117PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC118PHL&&&	PEOPLE-HG-LAT	= 200.00
tagC100PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC101PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC102PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC103PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC104PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC105PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC106PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC107PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC108PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC109PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC110PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC111PHS&&&	PEOPLE-HG-SENS	= 250.00

tagC112PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC114PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC115PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC116PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC117PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC118PHS&&&	PEOPLE-HG-SENS	= 250.00
tagC100NOP&&&		
tagC101NOP&&&		
tagC102NOP&&&		
tagC103NOP&&&		
tagC104NOP&&&		
tagC105NOP&&&		
tagC106NOP&&&		
tagC107NOP&&&		
tagC108NOP&&&		
tagC109NOP&&&		
tagC110NOP&&&		
tagC111NOP&&&		
tagC112NOP&&&		
tagC114NOP&&&		
tagC115NOP&&&		
tagC116NOP&&&		
tagC117NOP&&&		
tagC118NOP&&&		
0		
tagC100LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC101LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC102LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC103LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC104LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC105LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC106LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC107LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC108LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC109LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC110LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC111LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC112LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC114LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC115LWA&&&	LIGHTING-W/AREA	= (1.00)
tagC116LWA&&&	LIGHTING-W/AREA	= (1.00)
.	•	2

tagC117LWA&&&	LIGHTING-W/AREA	=	(1.00 🕽)		
tagC118LWA&&&	LIGHTING-W/AREA	=	(1.00 🕽)		
tagC100EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC101EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC102EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC103EWA&&&	EQUIPMENT-W/AREA	=	(0.92,	0,	0)
tagC104EWA&&&	EQUIPMENT-W/AREA	=	(1.09,	0,	0)
tagC105EWA&&&	EQUIPMENT-W/AREA	=	(1.09,	0,	0)
tagC106EWA&&&	EQUIPMENT-W/AREA	=	(1.09,	0,	0)
tagC107EWA&&&	EQUIPMENT-W/AREA	=	(1.09,	0,	0)
tagC108EWA&&&	EQUIPMENT-W/AREA	=	(1.09,	0,	0)
tagC109EWA&&&	EQUIPMENT-W/AREA	=	(1.00,	0,	0)
tagC110EWA&&&	EQUIPMENT-W/AREA	=	(1.09,	0,	0)
tagC111EWA&&&	EQUIPMENT-W/AREA	=	(1.09,	0,	0)
tagC112EWA&&&	EQUIPMENT-W/AREA	=	(0.92,	0,	0)
tagC114EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC115EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC116EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC117EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC118EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
tagC100APE&&&	AREA/PERSON	=	20	00.00			
tagC101APE&&&	AREA/PERSON	=	20	00.00			
tagC102APE&&&	AREA/PERSON	=	20	00.00			
tagC103APE&&&	AREA/PERSON	=	22	22.35			
tagC104APE&&&	AREA/PERSON	=	22	22.69			
tagC105APE&&&	AREA/PERSON	=	22	22.69			
tagC106APE&&&	AREA/PERSON	=	22	22.69			
tagC107APE&&&	AREA/PERSON	=	22	22.69			
tagC108APE&&&	AREA/PERSON	=	22	22.69			
tagC109APE&&&	AREA/PERSON	=	20	00.00			
tagC110APE&&&	AREA/PERSON	=	22	22.69			
tagC111APE&&&	AREA/PERSON	=	22	22.69			
tagC112APE&&&	AREA/PERSON	=	2	11.35			
tagC114APE&&&	AREA/PERSON	=	20	00.00			
tagC115APE&&&	AREA/PERSON	=	20	00.00			
tagC116APE&&&	AREA/PERSON	=	20	00.00			
tagC117APE&&&	AREA/PERSON	=	20	00.00			
tagC118APE&&&	AREA/PERSON	=	20	00.00			

HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"

COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch" "S1 Sys1 (PSZ) Fan Sch"

```
tagC117Ewin&&&"EL1 North Win (G.N3.E4.W2)" = WINDOW
tagC117Ewin&&&
               GLASS-TYPE
                               = "437 Window Type #1 GT"
               FRAME-WIDTH
tagC117Ewin&&&
                              = 0.108333
                               = 3.9783
tagC117Ewin&&& X
tagC117Ewin&&& Y
                               = 2.27833
tagC117Ewin&&& HEIGHT
                              = 5.00333
                               = 7.78333
tagC117Ewin&&&
               WIDTH
tagC117Ewin&&& OVERHANG-D
                               = 3
               FRAME-CONDUCT
                               = 2.781
tagC117Ewin&&&
tagC117Ewin&&&
                . .
tagC117Nwin&&&"EL1 West Win (G.W4.E5.W1)" = WINDOW
tagC117Nwin&&&
               GLASS-TYPE = "437 Window Type #1 GT"
tagC117Nwin&&& FRAME-WIDTH
                              = 0.108333
tagC117Nwin&&& X
                               = 1.14833
tagC117Nwin&&& Y
                               = 2.54833
tagC117Nwin&&& HEIGHT
                               = 5.00333
tagC117Nwin&&&
               WIDTH
                               = 7.78333
tagC117Nwin&&& OVERHANG-D = 3
tagC117Nwin&&&
               FRAME-CONDUCT = 2.781
tagC117Nwin&&&
               . .
tagC116Swin&&&
tagC116Ewin&&&"EL1 North Door (G.N3.E4.D3)" = WINDOW
tagC116Ewin&&&
               GLASS-TYPE
                               = "437 Window Type #1 GT"
tagC116Ewin&&& FRAME-WIDTH
                            = 0.25
tagC116Ewin&&& X
                               = 14
tagC116Ewin&&& Y
                              = 0.25
               HEIGHT
tagC116Ewin&&&
                               = 6.5
tagC116Ewin&&&
               WIDTH
                               = 2.5
               FRAME-CONDUCT
tagC116Ewin&&&
                               = 3.079
tagC116Ewin&&&
              . .
tagC116Ewin&&&"EL1 North Win (G.N3.E4.W3)" = WINDOW
                               = "437 Window Type #1 GT"
tagC116Ewin&&&
               GLASS-TYPE
tagC116Ewin&&& FRAME-WIDTH
                               = 0
tagC116Ewin&&& X
                               = 3
tagC116Ewin&&&
               Y
                               = 1.93347
```

tagC116Ewin&&& HEIGHT = 5.22 tagC116Ewin&&& = 8 WIDTH tagC116Ewin&&& OVERHANG-D = 3 FRAME-CONDUCT tagC116Ewin&&& = 2.781 tagC116Ewin&&& . . tagC116Nwin&&& tagC114Nwin&&& tagC114Swin&&&"EL1 East Win (G.E2.E3.W1)" = WINDOW tagC114Swin&&& GLASS-TYPE = "437 Window Type #1 GT" tagC114Swin&&& FRAME-WIDTH = 0.108333 tagC114Swin&&& X = 3.5683 tagC114Swin&&& Y = 2.13833 tagC114Swin&&& HEIGHT = 5.00333 tagC114Swin&&& WIDTH = 3.78333 tagC114Swin&&& OVERHANG-D = 3 tagC114Swin&&& FRAME-CONDUCT = 2.781 tagC114Swin&&& . . tagC114Ewin&&&"EL1 North Win (G.N3.E4.W1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "437 Window Type #1 GT" tagC114Ewin&&& FRAME-WIDTH = 0.108333 tagC114Ewin&&& X = 7.64833tagC114Ewin&&& Y = 1.75833tagC114Ewin&&& HEIGHT = 5.00333 tagC114Ewin&&& WIDTH = 7.78333 tagC114Ewin&&& OVERHANG-D = 3 FRAME-CONDUCT tagC114Ewin&&& = 2.781 tagC114Ewin&&& . . tagC114Ewin&&&"EL1 North Door (G.N3.E4.D1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "437 Window Type #1 GT" tagC114Ewin&&& FRAME-WIDTH = 0.25 tagC114Ewin&&& Х = 3.04 tagC114Ewin&&& Y = 0.25 HEIGHT = 6.5 tagC114Ewin&&& = 2.5 tagC114Ewin&&& WIDTH tagC114Ewin&&& FRAME-CONDUCT = 3.079 tagC114Ewin&&& . .

tagC111Swin&&&

tagC110Swin&&&"EL1 East Door (G.E2.E3.D1)" = WINDOW tagC110Swin&&& = "437 Window Type #1 GT" GLASS-TYPE tagC110Swin&&& FRAME-WIDTH = 0.25tagC110Swin&&& Х = 3.0tagC110Swin&&& Y = 0.25 tagC110Swin&&& HEIGHT = 6.5 tagC110Swin&&& WIDTH = 2.5 tagC110Swin&&& FRAME-CONDUCT = 3.079 tagC110Swin&&& . . tagC109Ewin&&&"EL2 North Win (G.1.E3.W1)" = WINDOW tagC109Ewin&&& GLASS-TYPE = "437 Window Type #1 GT" tagC109Ewin&&& FRAME-WIDTH = 0.108333tagC109Ewin&&& Х = 5.10833 tagC109Ewin&&& Y = 3.10833tagC109Ewin&&& HEIGHT = 5.00333 = 7.78333 tagC109Ewin&&& WIDTH OVERHANG-D tagC109Ewin&&& = 3 tagC109Ewin&&& FRAME-CONDUCT = 2.781 tagC109Ewin&&& . . tagC109Wwin&&&"EL2 South Win (G.1.E1.W1)" = WINDOW tagC109Wwin&&& GLASS-TYPE = "437 Window Type #1 GT" tagC109Wwin&&& FRAME-WIDTH = 0.108333= 5.10833 tagC109Wwin&&& Х Y tagC109Wwin&&& = 3.10833tagC109Wwin&&& HEIGHT = 5.00333 tagC109Wwin&&& WIDTH = 7.78333tagC109Wwin&&& OVERHANG-D = 3 tagC109Wwin&&& FRAME-CONDUCT = 2.781 tagC109Wwin&&& . . tagC109Swin&&& tagC108swin&&& tagC108Swin&&& tagC108Wwin&&&"EL1 South Win (G.S1.E1.W2)" = WINDOW tagC108Wwin&&& = "437 Window Type #1 GT" GLASS-TYPE tagC108Wwin&&& FRAME-WIDTH = 0.108333tagC108Wwin&&& X = 5.5483 tagC108Wwin&&& Y = 2.78833 tagC108Wwin&&& HEIGHT = 5.00333

tagC108Wwin&&&	WIDTH	= 7.78333
tagC108Wwin&&&	OVERHANG-D	= 3
tagC108Wwin&&&	FRAME-CONDUCT	= 2.781
tagC108Wwin&&&	••	
tagC106Wwin&&&"EI	L1 South Door (G.S	S1.E1.D1)" = WINDOW
tagC106Wwin&&&	GLASS-TYPE	= "437 Window Type #1 GT"
tagC106Wwin&&&	FRAME-WIDTH	= 0.25
tagC106Wwin&&&	Х	= 2.0
tagC106Wwin&&&	Y	= 0.25
tagC106Wwin&&&	HEIGHT	= 6.5
tagC106Wwin&&&	WIDTH	= 5.5
tagC106Wwin&&&	FRAME-CONDUCT	= 3.079
tagC106Wwin&&&		
tagC105Wwin&&&		
tagC104Nwin&&&		
tagC104Wwin&&&		
tagC101Wwin&&&"EI	L1 South Win (G.S.	1.E1.W1)" = WINDOW
tagC101Wwin&&&	GLASS-TYPE	= "437 Window Type #1 GT"
tagC101Wwin&&&	FRAME-WIDTH	= 0.108333
tagC101Wwin&&&	Х	= 3.52135
tagC101Wwin&&&	Y	= 2.27058
tagC101Wwin&&&	HEIGHT	= 5.00333
tagC101Wwin&&&	WIDTH	= 3.78333
tagC101Wwin&&&	OVERHANG-D	= 3
tagC101Wwin&&&	FRAME-CONDUCT	= 2.781
tagC101Wwin&&&	•••	
tagC101Nwin&&&"EI	L1 West Win (G.W4	.E5.W2)" = WINDOW
tagC101Nwin&&&	GLASS-TYPE	= "437 Window Type #1 GT"
tagC101Nwin&&&	FRAME-WIDTH	= 0.108333
tagC101Nwin&&&	Х	= 3.7583
tagC101Nwin&&&	Y	= 2.59833
tagC101Nwin&&&	HEIGHT	= 5.00333
tagC101Nwin&&&	WIDTH	= 7.78333
tagC101Nwin&&&	OVERHANG-D	= 3
tagC101Nwin&&&	FRAME-CONDUCT	= 2.781
tagC101Nwin&&&	•••	
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tagC100Nwin&&& FRAME-WIDTH = 0.25 tagC100Nwin&&& Х = 4.69tagC100Nwin&&& = 0.25 Y tagC100Nwin&&& = 6.5HEIGHT tagC100Nwin&&& WIDTH = 6.5 tagC100Nwin&&& FRAME-CONDUCT = 3.079 tagC100Nwin&&& . . tagC115Ewin&&&"EL1 North Door (G.N3.E4.D2)" = WINDOW tagC115Ewin&&& GLASS-TYPE = "437 Window Type #1 GT" tagC115Ewin&&& FRAME-WIDTH = 0.25 tagC115Ewin&&& X = 2.75tagC115Ewin&&& Y = 0.25 tagC115Ewin&&& HEIGHT = 6.5 tagC115Ewin&&& WIDTH = 6.5 tagC115Ewin&&& FRAME-CONDUCT = 3.079 tagC115Ewin&&& . . tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL NEXT-TO = "C100 Plnm (G.N34)" tagC100CEI&&& tagC100CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC100CEI&&& LOCATION = TOP tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL = "C101 Plnm (G.NW33)" tagC101CEI&&& NEXT-TO tagC101CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC101CEI&&& LOCATION = TOP tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL tagC102CEI&&& NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& LOCATION = TOP tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC103CEI&&& tagC103CEI&&& = TOP LOCATION tagC103CEI&&& . .

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I.1.5 Participant 625

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tagaaa&&&
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tagaab&&&
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tagC107LWA&&&	LIGHTING-W/AREA	= (1)

tagC108LWA&&&	LIGHTING-W/AREA	=	(1)
tagC109LWA&&&	LIGHTING-W/AREA	=	(1)
tagC110LWA&&&	LIGHTING-W/AREA	=	(1)
tagC111LWA&&&	LIGHTING-W/AREA	=	(1)
tagC112LWA&&&	LIGHTING-W/AREA	=	(0.5)
tagC114LWA&&&	LIGHTING-W/AREA	=	(1)
tagC115LWA&&&	LIGHTING-W/AREA	=	(1)
tagC116LWA&&&	LIGHTING-W/AREA	=	(1)
tagC117LWA&&&	LIGHTING-W/AREA	=	(1)
tagC118LWA&&&	LIGHTING-W/AREA	=	(1.5)
•			
tagC100EWA&&&	EQUIPMENT-W/AREA	=	(1,0,0)
tagC101EWA&&&	EQUIPMENT-W/AREA	=	(1.5,0,0)
tagC102EWA&&&	EQUIPMENT-W/AREA	=	(1,0,0)
tagC103EWA&&&	EQUIPMENT-W/AREA	=	(0.25,0,0)
tagC104EWA&&&	EQUIPMENT-W/AREA	=	(0.25,0,0)
tagC105EWA&&&	EQUIPMENT-W/AREA	=	(1.5,0,0)
tagC106EWA&&&	EQUIPMENT-W/AREA	=	(3,0,0)
tagC107EWA&&&	EQUIPMENT-W/AREA	=	(3,0,0)
tagC108EWA&&&	EQUIPMENT-W/AREA	=	(1.5,0,0)
tagC109EWA&&&	EQUIPMENT-W/AREA	=	(1.5,0,0)
tagC110EWA&&&	EQUIPMENT-W/AREA	=	(0.5,0,0)
tagC111EWA&&&	EQUIPMENT-W/AREA	=	(0.5,0,0)
tagC112EWA&&&	EQUIPMENT-W/AREA	=	(0.25,0,0)
tagC114EWA&&&	EQUIPMENT-W/AREA	=	(1.5,0,0)
tagC115EWA&&&	EQUIPMENT-W/AREA	=	(0.5,0,0)
tagC116EWA&&&	EQUIPMENT-W/AREA	=	(1, 0, 0)
tagC117EWA&&&	EQUIPMENT-W/AREA	=	(0.6,0,0)
tagC118EWA&&&	EQUIPMENT-W/AREA	=	(1, 0, 0)
tagC100APE&&&	AREA/PERSON	=	200.00
tagC101APE&&&	AREA/PERSON	=	200.00
tagC102APE&&&	AREA/PERSON	=	200.00
tagC103APE&&&	AREA/PERSON	=	200.00
tagC104APE&&&	AREA/PERSON	=	200.00
tagC105APE&&&	AREA/PERSON	=	200.00
tagC106APE&&&	AREA/PERSON	=	200.00
tagC107APE&&&	AREA/PERSON	=	200.00
tagC108APE&&&	AREA/PERSON	=	200.00
tagC109APE&&&	AREA/PERSON	=	200.00
tagC110APE&&&	AREA/PERSON	=	200.00
tagC111APE&&&	AREA/PERSON	=	200.00

tagC112APE&&& AREA/PERSON = 200.00 tagC114APE&&& AREA/PERSON = 200.00= 200.00 tagC115APE&&& AREA/PERSON AREA/PERSON = 200.00 tagC116APE&&& tagC117APE&&& AREA/PERSON = 200.00 tagC118APE&&& AREA/PERSON = 200.00 = "MajDD Sys1 (PSZ) Heat Sch" HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch" COOL-TEMP-SCH "S1 Sys1 (PSZ) Fan Sch" tagC117Ewin&&&"EL1 East Win (G.NE2.E3.W1)" = WINDOW tagC117Ewin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC117Ewin&&& FRAME-WIDTH = 0 tagC117Ewin&&& X = 4.58621 tagC117Ewin&&& Y = 3 tagC117Ewin&&& HEIGHT = 5.22 tagC117Ewin&&& WIDTH = 4.82759 FRAME-CONDUCT = 2.781 tagC117Ewin&&& tagC117Ewin&&& . . tagC117Nwin&&&"EL1 North Win (G.NE2.E2.W1)" = WINDOW tagC117Nwin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC117Nwin&&& FRAME-WIDTH = 0 tagC117Nwin&&& X = 3.525tagC117Nwin&&& Y = 3 tagC117Nwin&&& HEIGHT = 5.22 tagC117Nwin&&& = 6 WIDTH tagC117Nwin&&& FRAME-CONDUCT = 2.781 tagC117Nwin&&& . . tagC116Swin&&& tagC116Ewin&&&"EL1 East Win (G.ESE3.E6.W1)" = WINDOW tagC116Ewin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC116Ewin&&& FRAME-WIDTH = 0 tagC116Ewin&&& X = 5.8802 = 3 tagC116Ewin&&& Y tagC116Ewin&&& HEIGHT = 5.22 tagC116Ewin&&& WIDTH = 6.18968 FRAME-CONDUCT tagC116Ewin&&& = 2.781

. .

tagC116Ewin&&&

tagC116Nwin&&& tagC114Nwin&&& tagC114Swin&&&"EL1 South Win (G.E4.E8.W1)" = WINDOW tagC114Swin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC114Swin&&& FRAME-WIDTH = 0 = 4.73506 tagC114Swin&&& X tagC114Swin&&& Y = 3 tagC114Swin&&& HEIGHT = 5.22 WIDTH = 1.22988 tagC114Swin&&& tagC114Swin&&& FRAME-CONDUCT = 2.781 tagC114Swin&&& . . tagC114Ewin&&&"EL1 East Win (G.E4.E9.W1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC114Ewin&&& FRAME-WIDTH = 0 tagC114Ewin&&& Х = 5.89655 = 3 tagC114Ewin&&& Y tagC114Ewin&&& HEIGHT = 5.22 tagC114Ewin&&& WIDTH = 6.2069 FRAME-CONDUCT tagC114Ewin&&& = 2.781 tagC114Ewin&&& . . tagC111Swin&&& tagC110Swin&&& tagC109Ewin&&&"EL1 East Win (G.S14.E23.W1)" = WINDOW tagC109Ewin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC109Ewin&&& FRAME-WIDTH = 0 tagC109Ewin&&& X = 5.89655 Y tagC109Ewin&&& = 3 tagC109Ewin&&& HEIGHT = 5.22tagC109Ewin&&& WIDTH = 6.2069 tagC109Ewin&&& FRAME-CONDUCT = 2.781 tagC109Ewin&&& . . tagC109Wwin&&&"EL1 West Win (G.S14.E21.W1)" = WINDOW tagC109Wwin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC109Wwin&&& FRAME-WIDTH = 0 tagC109Wwin&&& Х = 6.93103

tagC109Wwin&&& Y = 3 tagC109Wwin&&& = 5.22 HEIGHT tagC109Wwin&&& = 4.13793 WIDTH FRAME-CONDUCT tagC109Wwin&&& = 2.781 tagC109Wwin&&& . . tagC109Swin&&& tagC108swin&&& tagC108Swin&&& tagC108Wwin&&&"EL1 West Win (G.WSW13.E20.W1)" = WINDOW tagC108Wwin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC108Wwin&&& FRAME-WIDTH = 0 tagC108Wwin&&& X = 7.18034 tagC108Wwin&&& Y = 3.04068tagC108Wwin&&& HEIGHT = 4 tagC108Wwin&&& WIDTH = 8 FRAME-CONDUCT tagC108Wwin&&& = 2.781tagC108Wwin&&& . . tagC106Wwin&&& tagC105Wwin&&&"EL1 West Win (G.W11.E16.W1)" = WINDOW tagC105Wwin&&& = "625 Window Type #1 GT" GLASS-TYPE tagC105Wwin&&& FRAME-WIDTH = 0 tagC105Wwin&&& X = 2.10102tagC105Wwin&&& Y = 3 tagC105Wwin&&& HEIGHT = 4 WIDTH tagC105Wwin&&& = 8 tagC105Wwin&&& = 2.781 FRAME-CONDUCT tagC105Wwin&&& . . tagC104Nwin&&& tagC104Wwin&&& tagC101Wwin&&&"EL1 West Win (G.NW8.E12.W1)" = WINDOW tagC101Wwin&&& = "625 Window Type #1 GT" GLASS-TYPE tagC101Wwin&&& FRAME-WIDTH = 0 tagC101Wwin&&& X = 3.83132 tagC101Wwin&&& Y = 3 tagC101Wwin&&& HEIGHT = 5.22 tagC101Wwin&&& WIDTH = 2.28736

tagC101Wwin&&& FRAME-CONDUCT = 2.781 tagC101Wwin&&& . . tagC101Nwin&&&"EL1 North Win (G.NW8.E13.W1)" = WINDOW tagC101Nwin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC101Nwin&&& FRAME-WIDTH = 0 tagC101Nwin&&& Х = 3.45747tagC101Nwin&&& Y = 3 HEIGHT = 5.22 tagC101Nwin&&& tagC101Nwin&&& WIDTH = 5.88506 tagC101Nwin&&& FRAME-CONDUCT = 2.781 tagC101Nwin&&& . . tagC100Nwin&&&"EL1 North Win (G.N1.E1.W1)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "625 Window Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0 = 4.06051 tagC100Nwin&&& Х tagC100Nwin&&& = 0 Y tagC100Nwin&&& HEIGHT = 8 tagC100Nwin&&& = 9 WIDTH tagC100Nwin&&& FRAME-CONDUCT = 2.781 tagC100Nwin&&& . . tagC115Ewin&&&"EL1 East Win (G.E7.E11.W1)" = WINDOW tagC115Ewin&&& = "625 Window Type #1 GT" GLASS-TYPE tagC115Ewin&&& FRAME-WIDTH = 0 tagC115Ewin&&& Х = 1.73797tagC115Ewin&&& Y = 0 tagC115Ewin&&& = 8 HEIGHT WIDTH tagC115Ewin&&& = 9 tagC115Ewin&&& FRAME-CONDUCT = 2.781tagC115Ewin&&& . . tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL = "C100 Plnm (G.N34)" tagC100CEI&&& NEXT-TO = "EL1 Ceilg Construction" tagC100CEI&&& CONSTRUCTION = TOP tagC100CEI&&& LOCATION tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL tagC101CEI&&& NEXT-TO = "C101 Plnm (G.NW33)" = "EL1 Ceilg Construction" tagC101CEI&&& CONSTRUCTION

tagC101CEI&&& LOCATION = TOP tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL tagC102CEI&&& NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION tagC102CEI&&& = TOPtagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC103CEI&&& LOCATION tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL tagC104CEI&&& NEXT-TO = "C104 Plnm (G.WNW32)" tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC104CEI&&& LOCATION = TOP tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL = "C105 Plnm (G.W29)" tagC105CEI&&& NEXT-TO tagC105CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC105CEI&&& LOCATION = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL NEXT-TO = "C106 Plnm (G.W27)" tagC106CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC106CEI&&& tagC106CEI&&& LOCATION = TOP tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL tagC107CEI&&& NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC107CEI&&& = TOP LOCATION tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL tagC108CEI&&& NEXT-TO = "C108 Plnm (G.WSW26)" CONSTRUCTION tagC108CEI&&& = "EL1 Ceilg Construction"

tagC108CEI&&& LOCATION = TOP tagC108CEI&&& . . tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL = "C109 Plnm (G.S25)" tagC109CEI&&& NEXT-TO CONSTRUCTION = "EL1 Ceilg Construction" tagC109CEI&&& tagC109CEI&&& LOCATION = TOP tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL NEXT-TO = "C110 Plnm (G.S23)" tagC110CEI&&& tagC110CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC110CEI&&& LOCATION tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL tagC111CEI&&& NEXT-TO = "C111 Plnm (G.S22)" tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION tagC111CEI&&& = TOP tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL NEXT-TO = "C112 C113 Plnm (G.C24)" tagC112CEI&&& tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC112CEI&&& LOCATION = TOP tagC112CEI&&& • • tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL NEXT-TO = "C114 Plnm (G.E21)" tagC114CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC114CEI&&& LOCATION = TOP tagC114CEI&&& tagC114CEI&&& . . tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL tagC115CEI&&& NEXT-TO = "C115 Plnm (G.E36)" tagC115CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC115CEI&&& LOCATION = TOP tagC115CEI&&& . . tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)" CONSTRUCTION tagC116CEI&&& = "EL1 Ceilg Construction"

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tagC116CEI&&&
               LOCATION
                               = TOP
tagC116CEI&&&
               . .
tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL
tagC117CEI&&&
              NEXT-TO
                         = "C117 Plnm (G.NE19)"
              CONSTRUCTION
LOCATION
tagC117CEI&&&
                               = "EL1 Ceilg Construction"
tagC117CEI&&&
                               = TOP
tagC117CEI&&&
               . .
tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALL
               NEXT-TO
                               = "minifoyer Plnm (G.C30)"
tagC118CEI&&&
               CONSTRUCTION = "EL1 Ceilg Construction"
tagC118CEI&&&
tagC118CEI&&&
              LOCATION
                               = TOP
tagC118CEI&&&
              ..
```

I.1.6 Participant 634

tagaaa&&&	DRYBULB-HIGH	= 94
tagaaa&&&	DRYBULB-RANGE	= 26
tagaab&&&	DRYBULB-HIGH	= 29
tagaac&&&	ALTITUDE	= 67
tagEWALL&&&	ROUGHNESS	= 1
tagEWALL&&&	LAYERS	= "634 EWall Cons Layers"
tagIWALL&&&	TYPE	= LAYERS
tagIWALL&&&	LAYERS	= "634 IWall Cons Layers"
tagbb1&&&		
tagcc1&&&	PROCESS-FLOW	= (0.0362476)
tagcc1&&&	PROCESS-SCH	= ("MajDD DHW Eqp NRes Sch")
tagcc2&&&	TYPE	= GAS
tagcc2&&&	TANK-VOLUME	= 9.84556
tagcc2&&&	CAPACITY	= 0.0131222
tagcc2&&&	HIR-FPLR	= "DW-Gas-Pilotless-HIR-fPLR"
tagcc2&&&	TANK-UA	= 0.410232
tagcc2&&&	LOCATION	= ZONE
tagcc2&&&	ZONE-NAME	= "EL1 Core Zn (G.C17)"
tagcc2&&&	DHW-LOOP	= "DHW Plant 1 Loop (1)"
tagcc2&&&	C-ENERGY-FACTOR	= 0.601293

tagHEI&&&	FLOOR-HEIGHT	= 15				
tagHEI&&&	SPACE-HEIGHT	= 8.5				
tagC100ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC101ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC102ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC103ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC104ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC105ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC106ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC107ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC108ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC109ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC110ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC111ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC112ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC114ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC115ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC116ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC117ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC118ZTY&	&& ZONE-TYPE	=	COND	ITIONE	ED	
tagC100PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
tagC101PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
tagC102PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
tagC103PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
tagC104PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
tagC105PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	$\operatorname{Sch}"$
tagC106PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	$\operatorname{Sch}"$
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tagC108PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	$\operatorname{Sch}"$
tagC109PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
tagC110PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
tagC111PSC&	&& PEOPLE-SCH	EDULE =	"634	Bldg	Occup	Sch"
				D 1	~	0-1-11
tagC112PSC&	&& PEOPLE-SCH	EDULE =	"634	BTqd	Uccup	SCU.
tagC112PSC& tagC114PSC&	&&PEOPLE-SCHI&&PEOPLE-SCHI	EDULE = EDULE =	"634 "634	Bldg	Occup Occup	Sch"
tagC112PSC& tagC114PSC& tagC115PSC&	&& PEOPLE-SCHI && PEOPLE-SCHI && PEOPLE-SCHI	EDULE = EDULE = EDULE =	"634 "634 "634	Bldg Bldg Bldg	Occup Occup Occup	Sch" Sch"
tagC112PSC& tagC114PSC& tagC115PSC& tagC116PSC&	&& PEOPLE-SCHI && PEOPLE-SCHI && PEOPLE-SCHI && PEOPLE-SCHI && PEOPLE-SCHI	EDULE = EDULE = EDULE = EDULE =	"634 "634 "634 "634	Bldg Bldg Bldg Bldg	Occup Occup Occup Occup	Sch" Sch" Sch" Sch"
tagC112PSC& tagC114PSC& tagC115PSC& tagC116PSC& tagC117PSC&	&& PEOPLE-SCHI && PEOPLE-SCHI	EDULE = EDULE = EDULE = EDULE = EDULE =	"634 "634 "634 "634 "634	Bldg Bldg Bldg Bldg Bldg	Occup Occup Occup Occup Occup	Sch" Sch" Sch" Sch" Sch"

tagC100LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
tagC101LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
tagC102LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
tagC103LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
tagC104LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
tagC105LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
tagC106LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
tagC107LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
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tagC111LSC&&&	LIGHTING-SCHEDUL = ("634 Bldg InsLt Sch")	
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tagC116ESC&&&	EQUIP-SCHEDULE = ("634 Bldg Misc Sch",	
tagC117ESC&&&	EQUIP-SCHEDULE = ("634 Bldg Misc Sch",	
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tagC101ESC&&&	"634 Bldg OffEq Sch","634 Bldg OffEq Sch")	
tagC102ESC&&&	"634 Bldg OffEq Sch","634 Bldg OffEq Sch")	
tagC103ESC&&&	"634 Bldg Misc Sch","634 Bldg Misc Sch")	
tagC104ESC&&&	"634 Bldg OffEq Sch","634 Bldg OffEq Sch")	
tagC105ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
---------------	--------------	------------------------------------
tagC106ESC&&&	"634 Bldg	OffEq Sch", "634 Bldg OffEq Sch")
tagC107ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC108ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC109ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC110ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC111ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC112ESC&&&	"634 Bldg	Misc Sch","634 Bldg Misc Sch")
tagC114ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC115ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
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tagC117ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC118ESC&&&	"634 Bldg	OffEq Sch","634 Bldg OffEq Sch")
tagC100ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC101ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC102ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC103ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) C-Inf Sch"
tagC104ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC105ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC106ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC107ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC108ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC109ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC110ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC111ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC112ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) C-Inf Sch"
tagC114ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC115ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC116ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC117ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC118ISC&&&	INF-SCHEDULE	= "634 ZGO-S1 (PSZ) P-Inf Sch"
tagC100IME&&&	INF-METHOD	= AIR-CHANGE
tagC101IME&&&	INF-METHOD	= AIR-CHANGE
tagC102IME&&&	INF-METHOD	= AIR-CHANGE
tagC103IME&&&	INF-METHOD	= AIR-CHANGE
tagC104IME&&&	INF-METHOD	= AIR-CHANGE
tagC105IME&&&	INF-METHOD	= AIR-CHANGE
tagC106IME&&&	INF-METHOD	= AIR-CHANGE
tagC107IME&&&	INF-METHOD	= AIR-CHANGE
tagC108IME&&&	INF-METHOD	= AIR-CHANGE
-		

tagC109IME&&&	INF-METHOD	=	AIR-CHANGE
tagC110IME&&&	INF-METHOD	=	AIR-CHANGE
tagC111IME&&&	INF-METHOD	=	AIR-CHANGE
tagC112IME&&&	INF-METHOD	=	AIR-CHANGE
tagC114IME&&&	INF-METHOD	=	AIR-CHANGE
tagC115IME&&&	INF-METHOD	=	AIR-CHANGE
tagC116IME&&&	INF-METHOD	=	AIR-CHANGE
tagC117IME&&&	INF-METHOD	=	AIR-CHANGE
tagC118IME&&&	INF-METHOD	=	AIR-CHANGE
tagC100IFA&&&	INF-FLOW/AREA	=	0.00985758
tagC101IFA&&&	INF-FLOW/AREA	=	0.0566948
tagC102IFA&&&	INF-FLOW/AREA	=	0.00985758
tagC103IFA&&&	INF-FLOW/AREA	=	0.001
tagC104IFA&&&	INF-FLOW/AREA	=	0.0598101
tagC105IFA&&&	INF-FLOW/AREA	=	0.0203068
tagC106IFA&&&	INF-FLOW/AREA	=	0.0203786
tagC107IFA&&&	INF-FLOW/AREA	=	0.0203786
tagC108IFA&&&	INF-FLOW/AREA	=	0.0185016
tagC109IFA&&&	INF-FLOW/AREA	=	0.0382546
tagC110IFA&&&	INF-FLOW/AREA	=	0.0538337
tagC111IFA&&&	INF-FLOW/AREA	=	0.0538337
tagC112IFA&&&	INF-FLOW/AREA	=	0.001
tagC114IFA&&&	INF-FLOW/AREA	=	0.0607583
tagC115IFA&&&	INF-FLOW/AREA	=	0.00985758
tagC116IFA&&&	INF-FLOW/AREA	=	0.0424515
tagC117IFA&&&	INF-FLOW/AREA	=	0.0226562
tagC118IFA&&&	INF-FLOW/AREA	=	0.00985758
tagC100PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC101PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC102PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC103PHL&&&	PEOPLE-HG-LAT	=	250
tagC104PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC105PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC106PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC107PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC108PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC109PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC110PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC111PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC112PHL&&&	PEOPLE-HG-LAT	=	250

tagC114PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC115PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC116PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC117PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC118PHL&&&	PEOPLE-HG-LAT	=	200.719
tagC100PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC101PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC102PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC103PHS&&&	PEOPLE-HG-SENS	=	250
tagC104PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC105PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC106PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC107PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC108PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC109PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC110PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC111PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC112PHS&&&	PEOPLE-HG-SENS	=	250
tagC114PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC115PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC116PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC117PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC118PHS&&&	PEOPLE-HG-SENS	=	249.215
tagC100NOP&&&			
tagC101NOP&&&			
tagC102NOP&&&			
tagC103NOP&&&			
tagC104NOP&&&			
tagC105NOP&&&			
tagC106NOP&&&			
tagC107NOP&&&			
tagC108NOP&&&			
tagC109NOP&&&			
tagC110NOP&&&			
tagC111NOP&&&			
tagC112NOP&&&			
tagC114NOP&&&			
tagC115NOP&&&			
tagC116NOP&&&	NUMBER-OF-PEOPLE	=	1
tagC117NOP&&&			

tagC118NOP&&&

tagC100LWA&&&	LIGHTING-W/AREA	=	(1.52)
tagC101LWA&&&	LIGHTING-W/AREA	=	(1.50)
tagC102LWA&&&	LIGHTING-W/AREA	=	(1.52)
tagC103LWA&&&	LIGHTING-W/AREA	=	(0.77)
tagC104LWA&&&	LIGHTING-W/AREA	=	(0.77)
tagC105LWA&&&	LIGHTING-W/AREA	=	(1.50)
tagC106LWA&&&	LIGHTING-W/AREA	=	(0.81)
tagC107LWA&&&	LIGHTING-W/AREA	=	(0.81)
tagC108LWA&&&	LIGHTING-W/AREA	=	(1.50)
tagC109LWA&&&	LIGHTING-W/AREA	=	(1.50)
tagC110LWA&&&	LIGHTING-W/AREA	=	(0.81)
tagC111LWA&&&	LIGHTING-W/AREA	=	(0.81)
tagC112LWA&&&	LIGHTING-W/AREA	=	(0.77)
tagC114LWA&&&	LIGHTING-W/AREA	=	(1.50)
tagC115LWA&&&	LIGHTING-W/AREA	=	(1.52)
tagC116LWA&&&	LIGHTING-W/AREA	=	(1.50)
tagC117LWA&&&	LIGHTING-W/AREA	=	(0.92)
tagC118LWA&&&	LIGHTING-W/AREA	=	(1.52)
tagC100EWA&&&	EQUIPMENT-W/AREA	=	(0.601, 0, 0.004)
tagC101EWA&&&	EQUIPMENT-W/AREA	=	(0.75, 0, 0.004)
tagC102EWA&&&	EQUIPMENT-W/AREA	=	(0.601, 0, 0.004)
tagC103EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0)
tagC104EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0.004)
tagC105EWA&&&	EQUIPMENT-W/AREA	=	(0.75, 0, 0.004)
tagC106EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0.004)
tagC107EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0.004)
tagC108EWA&&&	EQUIPMENT-W/AREA	=	(0.75, 0, 0.004)
tagC109EWA&&&	EQUIPMENT-W/AREA	=	(0.7, 0, 0.004)
tagC110EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0.004)
tagC111EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0.004)
tagC112EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0)
tagC114EWA&&&	EQUIPMENT-W/AREA	=	(0.75, 0, 0.004)
tagC115EWA&&&	EQUIPMENT-W/AREA	=	(0.601, 0, 0.004)
tagC116EWA&&&	EQUIPMENT-W/AREA	=	(0.75, 0, 0.004)
tagC117EWA&&&	EQUIPMENT-W/AREA	=	(0.1, 0, 0.004)
tagC118EWA&&&	EQUIPMENT-W/AREA	=	(0.601, 0, 0.004)
tagC100APE&&&	AREA/PERSON	=	200
tagC101APE&&&	AREA/PERSON	=	100

tagC102APE&&&	AREA/PERSON	= 200
tagC103APE&&&	AREA/PERSON	= 1000
tagC104APE&&&	AREA/PERSON	= 183.014
tagC105APE&&&	AREA/PERSON	= 100
tagC106APE&&&	AREA/PERSON	= 100
tagC107APE&&&	AREA/PERSON	= 100
tagC108APE&&&	AREA/PERSON	= 100
tagC109APE&&&	AREA/PERSON	= 100
tagC110APE&&&	AREA/PERSON	= 1000
tagC111APE&&&	AREA/PERSON	= 1000
tagC112APE&&&	AREA/PERSON	= 1000
tagC114APE&&&	AREA/PERSON	= 100
tagC115APE&&&	AREA/PERSON	= 200
tagC116APE&&&	AREA/PERSON	= 183.014
tagC117APE&&&	AREA/PERSON	= 100
tagC118APE&&&	AREA/PERSON	= 200
HEAT-TEMP-SCH	H = "MajDD Sy	s1 (PSZ) Heat Sch"
COOL-TEMP-SCH	H = "MajDD Sy	s1 (PSZ) Cool Sch"
"S1 Sys1 (PSZ) H	an Sch"	
tagC117Ewin&&&		
tagC117Nwin&&&"H	EL1 North Win (G	.N1.E1.W1)" = WINDOW
tagC117Nwin&&&	GLASS-TYPE	= "634 Window Type #1 GT"
tagC117Nwin&&&	FRAME-WIDTH	= 0.108333
tagC117Nwin&&&	Х	= 2.60833
tagC117Nwin&&&	Y	= 3.10833
tagC117Nwin&&&	HEIGHT	= 4.28333
tagC117Nwin&&&	WIDTH	= 7.78333
tagC117Nwin&&&	FRAME-CONDUCT	= 2.781
tagC117Nwin&&&		
tagC116Swin&&&		
tagC116Ewin&&&"H	EL1 East Door (G	.ESE2.E3.D1)" = WINDOW
tagC116Ewin&&&	GLASS-TYPE	= "634 Window Type #1 GT"
tagC116Ewin&&&	FRAME-WIDTH	= 0.25
tagC116Ewin&&&	Х	= 11.8
tagC116Ewin&&&	Y	= 0.29
tagC116Ewin&&&	HEIGHT	= 6.5
tagC116Ewin&&&	WIDTH	= 2.5

```
tagC116Ewin&&&
                FRAME-CONDUCT
                                = 3.079
tagC116Ewin&&&
                . .
tagC116Ewin&&&"EL1 East Win (G.ESE2.E3.W1)" = WINDOW
tagC116Ewin&&&
                GLASS-TYPE
                                = "634 Window Type #1 GT"
tagC116Ewin&&& FRAME-WIDTH
                                = 0.0833333
tagC116Ewin&&&
                                = 3.10333
                Х
tagC116Ewin&&&
                Y
                                = 3.41333
tagC116Ewin&&&
                HEIGHT
                                = 3.33333
tagC116Ewin&&&
                WIDTH
                                = 5.83333
tagC116Ewin&&&
                FRAME-CONDUCT
                                = 2.781
tagC116Ewin&&&
                . .
tagC116Nwin&&&
tagC114Nwin&&&"EL1 North Win (G.E3.E6.W1)" = WINDOW
tagC114Nwin&&&
                GLASS-TYPE
                                = "634 Window Type #1 GT"
                FRAME-WIDTH
tagC114Nwin&&&
                                = 0.108333
tagC114Nwin&&& X
                                = 0.108333
tagC114Nwin&&& Y
                                = 3.10833
tagC114Nwin&&&
                HEIGHT
                                = 5.00333
tagC114Nwin&&&
                WIDTH
                                = 7.88349
tagC114Nwin&&&
                FRAME-CONDUCT
                                = 2.781
tagC114Nwin&&&
                . .
tagC114Swin&&&"EL1 South Win (G.E3.E4.W1)" = WINDOW
tagC114Swin&&&
                GLASS-TYPE
                                = "634 Window Type #1 GT"
tagC114Swin&&&
                FRAME-WIDTH
                                = 0.0833333
tagC114Swin&&&
              Х
                                = 7.31556
                Y
                                = 3.26162
tagC114Swin&&&
tagC114Swin&&&
               HEIGHT
                                = 2.03488
                WIDTH
tagC114Swin&&&
                                = 2.07364
tagC114Swin&&&
                FRAME-CONDUCT
                                = 2.781
tagC114Swin&&&
                . .
tagC114Ewin&&&"EL1 East Door (G.E3.E5.D1)" = WINDOW
tagC114Ewin&&&
                GLASS-TYPE
                                = "634 Window Type #1 GT"
tagC114Ewin&&&
                FRAME-WIDTH
                                = 0.25
tagC114Ewin&&&
                                = 4.3
                Х
                                = 0.25
tagC114Ewin&&&
                Y
tagC114Ewin&&&
                                = 6.5
                HEIGHT
tagC114Ewin&&&
                WIDTH
                                = 2.5
tagC114Ewin&&&
                FRAME-CONDUCT
                                = 3.079
```

tagC114Ewin&&& tagC114Ewin&&&"EL1 East Win (G.E3.E5.W1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "634 Window Type #1 GT" FRAME-WIDTH tagC114Ewin&&& = 0.25 tagC114Ewin&&& X = 9.77597tagC114Ewin&&& Y = 3.70124tagC114Ewin&&& HEIGHT = 3 WIDTH tagC114Ewin&&& = 5.5 tagC114Ewin&&& FRAME-CONDUCT = 2.781tagC114Ewin&&& . . tagC111Swin&&& tagC110Swin&&&"EL1 South Door (G.S4.E7.D1)" = WINDOW tagC110Swin&&& GLASS-TYPE = "634 Window Type #1 GT" tagC110Swin&&& FRAME-WIDTH = 0.25 tagC110Swin&&& X = 2.19= 0.33 tagC110Swin&&& Y tagC110Swin&&& HEIGHT = 6.5 = 2.5 tagC110Swin&&& WIDTH tagC110Swin&&& FRAME-CONDUCT = 3.079tagC110Swin&&& . . tagC109Ewin&&& tagC109Wwin&&& tagC109Swin&&& tagC108swin&&& tagC108Swin&&&"EL1 South Door (G.WSW7.E10.D1)" = WINDOW tagC108Swin&&& GLASS-TYPE = "634 Window Type #1 GT" tagC108Swin&&& FRAME-WIDTH = 0.25 tagC108Swin&&& X = 1.45155tagC108Swin&&& Y = 0.366279tagC108Swin&&& HEIGHT = 6.5 tagC108Swin&&& WIDTH = 2.5 tagC108Swin&&& FRAME-CONDUCT = 3.079 tagC108Swin&&& . . tagC108Wwin&&&"EL1 West Door (G.WSW7.E11.D1)" = WINDOW tagC108Wwin&&& GLASS-TYPE = "634 Window Type #1 GT" tagC108Wwin&&& FRAME-WIDTH = 0.25 = 8.125tagC108Wwin&&& Х

tagC108Wwin&&& Y = 3.54457tagC108Wwin&&& HEIGHT = 3.20542tagC108Wwin&&& WIDTH = 5.5 tagC108Wwin&&& FRAME-CONDUCT = 3.079 tagC108Wwin&&& . . tagC106Wwin&&&"EL1 West Win (G.W8.E13.W1)" = WINDOW tagC106Wwin&&& GLASS-TYPE = "634 Window Type #1 GT" = 0.0833333tagC106Wwin&&& FRAME-WIDTH tagC106Wwin&&& Х = 6.39907 tagC106Wwin&&& Y = 0.160853 tagC106Wwin&&& HEIGHT = 5.83333 tagC106Wwin&&& WIDTH = 2.83333 tagC106Wwin&&& FRAME-CONDUCT = 2.781 tagC106Wwin&&& . . tagC105Wwin&&&"EL1 West Win (G.W11.E16.W1)" = WINDOW tagC105Wwin&&& GLASS-TYPE = "634 Window Type #1 GT" tagC105Wwin&&& FRAME-WIDTH = 0.108333 tagC105Wwin&&& X = 3.40484tagC105Wwin&&& Y = 3.02903 tagC105Wwin&&& HEIGHT = 4.76783 tagC105Wwin&&& WIDTH = 4.76008tagC105Wwin&&& FRAME-CONDUCT = 2.781 tagC105Wwin&&& . . tagC104Nwin&&&"EL1 North Win (G.WNW9.E14.W1)" = WINDOW tagC104Nwin&&& GLASS-TYPE = "634 Window Type #1 GT" tagC104Nwin&&& FRAME-WIDTH = 0.108333tagC104Nwin&&& Х = 0.108333Y tagC104Nwin&&& = 3.10833 tagC104Nwin&&& = 5.00333 HEIGHT tagC104Nwin&&& WIDTH = 2.89782 tagC104Nwin&&& FRAME-CONDUCT = 2.781 tagC104Nwin&&& . . tagC104Wwin&&&"EL1 West Win (G.WNW9.E15.W1)" = WINDOW tagC104Wwin&&& = "634 Window Type #1 GT" GLASS-TYPE tagC104Wwin&&& FRAME-WIDTH = 0.0833333tagC104Wwin&&& Х = 2.37333 tagC104Wwin&&& Y = 3.34333 tagC104Wwin&&& HEIGHT = 3.08333

```
tagC104Wwin&&&
                WIDTH
                                 = 2.96333
tagC104Wwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC104Wwin&&&
                 . .
tagC101Wwin&&&
tagC101Nwin&&&"EL1 North Win (G.NW12.E18.W1)" = WINDOW
tagC101Nwin&&&
                GLASS-TYPE
                                 = "634 Window Type #1 GT"
tagC101Nwin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC101Nwin&&&
                Х
                                 = 2.60833
tagC101Nwin&&&
                Y
                                 = 3.10833
tagC101Nwin&&&
                HEIGHT
                                 = 4.28333
tagC101Nwin&&&
                WIDTH
                                 = 7.78333
tagC101Nwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC101Nwin&&&
                 . .
tagC100Nwin&&&"EL1 North Win (G.NE13.E19.W1)" = WINDOW
tagC100Nwin&&&
                GLASS-TYPE
                                 = "634 Window Type #1 GT"
tagC100Nwin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC100Nwin&&&
                                 = 0.108333
                Х
tagC100Nwin&&&
               Y
                                 = 3.10833
tagC100Nwin&&&
                HEIGHT
                                 = 5.00333
tagC100Nwin&&&
                WIDTH
                                 = 3.78349
tagC100Nwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC100Nwin&&&
                 . .
tagC100Nwin&&&"EL1 North Win (G.NE13.E19.W2)" = WINDOW
tagC100Nwin&&&
                GLASS-TYPE
                                 = "634 Window Type #1 GT"
tagC100Nwin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC100Nwin&&&
                Х
                                 = 12.1085
tagC100Nwin&&&
                                 = 3.10833
                Y
tagC100Nwin&&&
                HEIGHT
                                 = 5.00333
tagC100Nwin&&&
                WIDTH
                                 = 3.78349
tagC100Nwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC100Nwin&&&
                 . .
tagC100Nwin&&&"EL1 North Door (G.NE13.E19.D1)" = WINDOW
tagC100Nwin&&&
                                 = "634 Window Type #1 GT"
                GLASS-TYPE
tagC100Nwin&&&
                                 = 0.25
                FRAME-WIDTH
tagC100Nwin&&&
                                 = 5.25016
                Х
tagC100Nwin&&&
                                 = 0.25
                Y
tagC100Nwin&&&
                                 = 6.5
                HEIGHT
tagC100Nwin&&&
                WIDTH
                                 = 5.5
tagC100Nwin&&&
                FRAME-CONDUCT
                                 = 3.079
```

tagC100Nwin&&&

```
tagC115Ewin&&&"EL1 East Door (G.NE13.E20.D1)" = WINDOW
tagC115Ewin&&&
                GLASS-TYPE
                                = "634 Window Type #1 GT"
tagC115Ewin&&& FRAME-WIDTH
                                = 0.25
tagC115Ewin&&& X
                                = 2.8469
tagC115Ewin&&&
                Y
                                = 0.327519
tagC115Ewin&&& HEIGHT
                                = 6.5
                WIDTH
tagC115Ewin&&&
                                = 5.5
tagC115Ewin&&&
                FRAME-CONDUCT
                                = 3.079
tagC115Ewin&&&
                . .
tagC115Ewin&&&"EL1 East Win (G.NE13.E20.W1)" = WINDOW
                GLASS-TYPE
                                = "634 Window Type #1 GT"
tagC115Ewin&&&
tagC115Ewin&&& FRAME-WIDTH
                                = 0.0833333
tagC115Ewin&&&
                Х
                                = 0.623333
tagC115Ewin&&& Y
                                = 4.33333
tagC115Ewin&&&
              HEIGHT
                                = 2.33333
tagC115Ewin&&&
                WIDTH
                                = 1.08333
tagC115Ewin&&&
                FRAME-CONDUCT
                                = 2.781
tagC115Ewin&&&
                . .
tagC115Ewin&&&"EL1 East Win (G.NE13.E20.W2)" = WINDOW
tagC115Ewin&&&
                GLASS-TYPE
                                = "634 Window Type #1 GT"
tagC115Ewin&&&
                FRAME-WIDTH
                                = 0.0833333
tagC115Ewin&&& X
                                = 9.81333
tagC115Ewin&&&
              Y
                                = 4.33333
tagC115Ewin&&& HEIGHT
                                = 2.33333
tagC115Ewin&&&
                WIDTH
                                = 1.08333
tagC115Ewin&&&
                FRAME-CONDUCT
                                = 2.781
tagC115Ewin&&&
                . .
tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL
               NEXT-TO
tagC100CEI&&&
                               = "C100 Plnm (G.N34)"
tagC100CEI&&&
               CONSTRUCTION
                               = "EL1 Ceilg Construction"
tagC100CEI&&&
               LOCATION
                               = TOP
tagC100CEI&&&
               . .
tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL
tagC101CEI&&&
               NEXT-TO
                               = "C101 Plnm (G.NW33)"
               CONSTRUCTION
                               = "EL1 Ceilg Construction"
tagC101CEI&&&
tagC101CEI&&&
                               = TOP
               LOCATION
tagC101CEI&&&
               . .
```

tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& LOCATION = TOP tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC102CEIkkk LOCATION = TOP tagC103CEI&&& LOCATION = TOP tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL tagC104CEI&&& NEXT-TO = "C104 Plnm (G.WNW32)" tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC104CEI&&& LOCATION tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL NEXT-TO = "C105 Plnm (G.W29)" tagC105CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC105CEI&&& tagC105CEI&&& = TOP LOCATION tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL NEXT-TO = "C106 Plnm (G.W27)" tagC106CEI&&& tagC106CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION tagC106CEI&&& = TOP tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL tagC107CEI&&& NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION tagC107CEI&&& = TOP tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL tagC108CEI&&& NEXT-TO = "C108 Plnm (G.WSW26)" CONSTRUCTION = "EL1 Ceilg Construction" tagC108CEI&&& tagC108CEI&&& = TOP LOCATION tagC108CEI&&& . .

tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL NEXT-TO = "C109 Plnm (G.S25)" tagC109CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC109CEI&&& LOCATION tagC109CEI&&& = TOP tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL NEXT-TO = "C110 Plnm (G.S23)" tagC110CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC110CEI&&& tagC110CEI&&& LOCATION = TOP tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL tagC111CEI&&& NEXT-TO = "C111 Plnm (G.S22)" tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC111CEI&&& LOCATION tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL = "C112 C113 Plnm (G.C24)" tagC112CEI&&& NEXT-TO CONSTRUCTION = "EL1 Ceilg Construction" tagC112CEI&&& tagC112CEI&&& LOCATION = TOP tagC112CEI&&& . . tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL = "C114 Plnm (G.E21)" tagC114CEI&&& NEXT-TO tagC114CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC114CEI&&& LOCATION = TOP tagC114CEI&&& . . tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL NEXT-TO = "C115 Plnm (G.E36)" tagC115CEI&&& tagC115CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC115CEI&&& = TOP LOCATION tagC115CEI&&& . . tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)" CONSTRUCTION = "EL1 Ceilg Construction" tagC116CEI&&& = TOP tagC116CEI&&& LOCATION tagC116CEI&&& . .

tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL tagC117CEI&&& NEXT-TO = "C117 Plnm (G.NE19)" tagC117CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC117CEI&&& LOCATION = TOP tagC117CEI&&& .. tagC118CEI&&& .. tagC118CEI&&& NEXT-TO = "minifoyer Plnm (G.C30)"

tagC118CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC118CEI&&& LOCATION = TOP
tagC118CEI&&& ..

I.1.7 Participant 718

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tagaaa&&&	DRYBULB-RANGE	=	26
tagaab&&&	DRYBULB-HIGH	=	29
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tagC118PSC&&	&	PEOPLE-SCHED	ULE		=	"718	Bldg	Occup	Sch"	
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tagC117NOP&&&			
tagC118NOP&&&			

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tagC100EWA&&&	EQUIPMENT-W/AREA	=	(0.25,	0,	0)
tagC101EWA&&&	EQUIPMENT-W/AREA	=	(0.75,	0,	0)
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tagC104EWA&&&	EQUIPMENT-W/AREA	=	(1.00,	0,	0)
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tagC106EWA&&&	EQUIPMENT-W/AREA	=	(0.10,	0,	0)
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tagC111EWA&&&	EQUIPMENT-W/AREA	=	(0.13,	0,	0)
tagC112EWA&&&	EQUIPMENT-W/AREA	=	(0.10,	0,	0)
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tagC117EWA&&&	EQUIPMENT-W/AREA	=	(0.10,	0,	0)
tagC118EWA&&&	EQUIPMENT-W/AREA	=	(0.25,	0,	0)
tagC100APE&&&	AREA/PERSON	=	1(00			
tagC101APE&&&	AREA/PERSON	=	20	00			
tagC102APE&&&	AREA/PERSON	=	1(00			

tagC103APE&&&	AREA/PERSON	= 200
tagC104APE&&&	AREA/PERSON	= 200
tagC105APE&&&	AREA/PERSON	= 200
tagC106APE&&&	AREA/PERSON	= 2000
tagC107APE&&&	AREA/PERSON	= 2000
tagC108APE&&&	AREA/PERSON	= 100
tagC109APE&&&	AREA/PERSON	= 200
tagC110APE&&&	AREA/PERSON	= 300
tagC111APE&&&	AREA/PERSON	= 181.818
tagC112APE&&&	AREA/PERSON	= 300
tagC114APE&&&	AREA/PERSON	= 200
tagC115APE&&&	AREA/PERSON	= 181.818
tagC116APE&&&	AREA/PERSON	= 200
tagC117APE&&&	AREA/PERSON	= 50
tagC118APE&&&	AREA/PERSON	= 100
"S1 Sys1 (PSZ) I	Fan Sch"	
tagC117Ewin&&&"H	EL2 East Win (G.N	V7.E18.W1)" = WINDOW
tagC117Ewin&&&	GLASS-TYPE	= "718 Window Type #1 GT"
tagC117Ewin&&&	FRAME-WIDTH	= 0.00833333
tagC117Ewin&&&	Х	= 4.50833
tagC117Ewin&&&	Y	= 3.00833
tagC117Ewin&&&	HEIGHT	= 3.98333
tagC117Ewin&&&	WIDTH	= 3.98333
tagC117Ewin&&&	FRAME-CONDUCT	= 2.781
tagC117Ewin&&&		
tagC117Nwin&&&"H	EL2 North Win (G.	N7.E19.W1)" = WINDOW
tagC117Nwin&&&	GLASS-TYPE	= "718 Window Type #1 GT"
tagC117Nwin&&&	FRAME-WIDTH	= 0.00833333
tagC117Nwin&&&	Х	= 4.00833
tagC117Nwin&&&	Y	= 3.00833
tagC117Nwin&&&	HEIGHT	= 3.98333
tagC117Nwin&&&	WIDTH	= 3.98333
tagC117Nwin&&&	FRAME-CONDUCT	= 2.781
tagC117Nwin&&&	••	

tagC116Swin&&&

```
tagC116Ewin&&&"EL2 East Win (G.ESE6.E15.W1)" = WINDOW
tagC116Ewin&&&
               GLASS-TYPE
                                = "718 Window Type #1 GT"
tagC116Ewin&&&
               FRAME-WIDTH
                                = 0.00833333
tagC116Ewin&&&
                                = 2.00833
               Х
tagC116Ewin&&&
               Y
                                = 3.00833
tagC116Ewin&&& HEIGHT
                                = 3.98333
               WIDTH
tagC116Ewin&&&
                                = 3.98333
               FRAME-CONDUCT
tagC116Ewin&&&
                                = 2.781
tagC116Ewin&&&
                . .
tagC116Ewin&&&"EL2 East Win (G.ESE6.E15.W2)" = WINDOW
               GLASS-TYPE
                                = "718 Window Type #1 GT"
tagC116Ewin&&&
tagC116Ewin&&& FRAME-WIDTH
                                = 0.00833333
tagC116Ewin&&&
               Х
                                = 13.0083
tagC116Ewin&&& Y
                                = 0.00833333
tagC116Ewin&&&
              HEIGHT
                                = 6.98333
tagC116Ewin&&&
               WIDTH
                                = 2.98333
tagC116Ewin&&&
               FRAME-CONDUCT
                                = 2.781
tagC116Ewin&&&
                . .
tagC116Nwin&&&
tagC114Nwin&&&"EL2 North Win (G.E5.E14.W1)" = WINDOW
tagC114Nwin&&&
                GLASS-TYPE
                                = "718 Window Type #1 GT"
               FRAME-WIDTH
tagC114Nwin&&&
                                = 0.108333
tagC114Nwin&&& X
                                = 0.123659
tagC114Nwin&&& Y
                                = 3.10833
tagC114Nwin&&& HEIGHT
                                = 5.00333
tagC114Nwin&&&
               WIDTH
                                = 7.75268
tagC114Nwin&&& FRAME-CONDUCT
                                = 2.781
tagC114Nwin&&&
                . .
tagC114Swin&&&"EL2 South Win (G.E5.E12.W1)" = WINDOW
tagC114Swin&&&
               GLASS-TYPE
                                = "718 Window Type #1 GT"
tagC114Swin&&&
               FRAME-WIDTH
                                = 0.00833333
tagC114Swin&&&
               Х
                                = 2.50833
tagC114Swin&&&
              Y
                                = 3.00833
tagC114Swin&&&
               HEIGHT
                                = 3.98333
tagC114Swin&&&
               WIDTH
                                = 1.98333
tagC114Swin&&&
               FRAME-CONDUCT
                               = 2.781
tagC114Swin&&&
                . .
```

```
tagC114Ewin&&&"EL2 East Win (G.E5.E13.W1)" = WINDOW
tagC114Ewin&&&
                GLASS-TYPE
                                = "718 Window Type #1 GT"
tagC114Ewin&&&
                FRAME-WIDTH
                                = 0.00833333
tagC114Ewin&&& X
                                = 9.50833
tagC114Ewin&&& Y
                                = 3.00833
tagC114Ewin&&& HEIGHT
                                = 3.98333
                WIDTH
tagC114Ewin&&&
                                = 3.98333
tagC114Ewin&&&
                                = 2.781
                FRAME-CONDUCT
tagC114Ewin&&&
               . .
tagC114Ewin&&&"EL2 East Win (G.E5.E13.W2)" = WINDOW
tagC114Ewin&&&
                                = "718 Window Type #1 GT"
                GLASS-TYPE
tagC114Ewin&&&
                FRAME-WIDTH
                                = 0.00833333
tagC114Ewin&&& X
                                = 2.00833
tagC114Ewin&&& Y
                                = 0.00833333
tagC114Ewin&&& HEIGHT
                                = 6.98333
                                = 2.98333
tagC114Ewin&&&
                WIDTH
                FRAME-CONDUCT
tagC114Ewin&&&
                                = 2.781
tagC114Ewin&&&
                . .
tagC111Swin&&&
tagC110Swin&&&"EL2 South Win (G.N9.E25.W1)" = WINDOW
tagC110Swin&&&
                GLASS-TYPE
                                = "718 Window Type #1 GT"
                                = 0.00833333
tagC110Swin&&& FRAME-WIDTH
tagC110Swin&&& X
                                = 4.00833
tagC110Swin&&& Y
                                = 0.00833333
tagC110Swin&&& HEIGHT
                                = 6.98333
                WIDTH
tagC110Swin&&&
                                = 2.98333
tagC110Swin&&&
                FRAME-CONDUCT
                                = 2.781
tagC110Swin&&&
                . .
tagC109Ewin&&&"EL2 East Win (G.S4.E11.W1)" = WINDOW
tagC109Ewin&&&
                GLASS-TYPE
                                = "718 Window Type #1 GT"
tagC109Ewin&&&
                FRAME-WIDTH
                                = 0.00833333
tagC109Ewin&&&
                Х
                                = 6.50833
tagC109Ewin&&&
                Y
                                = 3.00833
tagC109Ewin&&&
                HEIGHT
                                = 3.98333
tagC109Ewin&&&
                WIDTH
                                = 3.98333
tagC109Ewin&&&
                                = 2.781
                FRAME-CONDUCT
tagC109Ewin&&&
                . .
```

tagC109Wwin&&&"EL2 West Win (G.S4.E9.W1)" = WINDOW tagC109Wwin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC109Wwin&&& FRAME-WIDTH = 0.00833333 tagC109Wwin&&& Х = 6.50833 tagC109Wwin&&& Y = 3.00833 tagC109Wwin&&& HEIGHT = 3.98333 tagC109Wwin&&& WIDTH = 3.98333tagC109Wwin&&& FRAME-CONDUCT = 2.781 tagC109Wwin&&& . . tagC109Swin&&& tagC108swin&&& tagC108Swin&&&"EL2 South Win (G.W3.E7.W1)" = WINDOW tagC108Swin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC108Swin&&& FRAME-WIDTH = 0.00833333 tagC108Swin&&& Х = 1.00833tagC108Swin&&& Y = 0.00833333 tagC108Swin&&& HEIGHT = 6.98333 tagC108Swin&&& WIDTH = 2.98333 tagC108Swin&&& FRAME-CONDUCT = 2.781 tagC108Swin&&& . . tagC108Wwin&&&"EL2 West Win (G.W3.E5.W1)" = WINDOW = "718 Window Type #1 GT" tagC108Wwin&&& GLASS-TYPE FRAME-WIDTH tagC108Wwin&&& = 0.00833333tagC108Wwin&&& Х = 8.00833 tagC108Wwin&&& Y = 3.00833 tagC108Wwin&&& = 3.98333 HEIGHT WIDTH tagC108Wwin&&& = 3.98333 tagC108Wwin&&& FRAME-CONDUCT = 2.781 tagC108Wwin&&& . . tagC106Wwin&&&"EL2 West Win (G.NW1.E1.W1)" = WINDOW tagC106Wwin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC106Wwin&&& FRAME-WIDTH = 0.00833333tagC106Wwin&&& Х = 3.00833tagC106Wwin&&& Y = 0.00833333 tagC106Wwin&&& HEIGHT = 6.98333 tagC106Wwin&&& WIDTH = 2.98333 tagC106Wwin&&& FRAME-CONDUCT = 2.781 tagC106Wwin&&& . .

tagC105Wwin&&&"EL1 West Win (G.S2.E4.W1)" = WINDOW tagC105Wwin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC105Wwin&&& FRAME-WIDTH = 0.00833333 tagC105Wwin&&& X = 3.4333 tagC105Wwin&&& Y = 2.00833 tagC105Wwin&&& HEIGHT = 3.98333WIDTH tagC105Wwin&&& = 3.98333 = 2.781 tagC105Wwin&&& FRAME-CONDUCT tagC105Wwin&&& . . tagC104Nwin&&& tagC104Wwin&&& tagC101Wwin&&&"EL1 West Win (G.N1.E3.W1)" = WINDOW tagC101Wwin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC101Wwin&&& = 0.00833333 FRAME-WIDTH tagC101Wwin&&& X = 4.00833tagC101Wwin&&& Y = 2.00833 tagC101Wwin&&& HEIGHT = 1.98333tagC101Wwin&&& WIDTH = 1.98333tagC101Wwin&&& FRAME-CONDUCT = 2.781 tagC101Wwin&&& . . tagC101Nwin&&&"EL1 North Win (G.N1.E2.W1)" = WINDOW tagC101Nwin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC101Nwin&&& FRAME-WIDTH = 0.00833333 tagC101Nwin&&& Х = 4.00833tagC101Nwin&&& Y = 3.00833 tagC101Nwin&&& HEIGHT = 3.98333 WIDTH tagC101Nwin&&& = 3.98333 tagC101Nwin&&& = 2.781 FRAME-CONDUCT tagC101Nwin&&& . . tagC100Nwin&&&"EL3 North Win (G.1.E4.W1)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.00833333 tagC100Nwin&&& Х = 5.50833 tagC100Nwin&&& Y = 0.00833333tagC100Nwin&&& HEIGHT = 6.98333 tagC100Nwin&&& WIDTH = 5.98333tagC100Nwin&&& OVERHANG-D = 12

```
tagC100Nwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC100Nwin&&&
                . .
tagC100Nwin&&&"EL3 North Win (G.1.E4.W2)" = WINDOW
tagC100Nwin&&&
                GLASS-TYPE
                                 = "718 Window Type #1 GT"
tagC100Nwin&&&
                FRAME-WIDTH
                                 = 0.00833333
tagC100Nwin&&&
                Х
                                 = 1.00833
tagC100Nwin&&&
                Y
                                 = 3.00833
                HEIGHT
tagC100Nwin&&&
                                 = 3.98333
tagC100Nwin&&&
                WIDTH
                                 = 1.98333
                OVERHANG-D
                                 = 12
tagC100Nwin&&&
tagC100Nwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC100Nwin&&&
                . .
tagC100Nwin&&&"EL3 North Win (G.1.E4.W3)" = WINDOW
tagC100Nwin&&&
                GLASS-TYPE = "718 Window Type #1 GT"
                FRAME-WIDTH
tagC100Nwin&&&
                                 = 0.00833333
tagC100Nwin&&&
                Х
                                 = 14.0083
tagC100Nwin&&&
                Y
                                 = 3.00833
tagC100Nwin&&&
                HEIGHT
                                 = 3.98333
tagC100Nwin&&&
                WIDTH
                                 = 1.98333
tagC100Nwin&&&
                OVERHANG-D
                                 = 12
tagC100Nwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC100Nwin&&&
                . .
tagC115Ewin&&&"EL2 East Win (G.WSW8.E22.W1)" = WINDOW
                                 = "718 Window Type #1 GT"
tagC115Ewin&&&
                GLASS-TYPE
                FRAME-WIDTH
tagC115Ewin&&&
                                 = 0.00833333
tagC115Ewin&&&
                Х
                                 = 2.75833
tagC115Ewin&&&
                Y
                                 = 0.00833333
tagC115Ewin&&&
                                 = 6.98333
                HEIGHT
                                 = 5.98333
tagC115Ewin&&&
                WIDTH
tagC115Ewin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC115Ewin&&&
                . .
tagC115Ewin&&&"EL2 East Win (G.WSW8.E22.W2)" = WINDOW
tagC115Ewin&&&
                GLASS-TYPE
                                 = "718 Window Type #1 GT"
tagC115Ewin&&&
                FRAME-WIDTH
                                 = 0.00833333
tagC115Ewin&&&
                Х
                                 = 1.50833
tagC115Ewin&&&
                Y
                                 = 3.00833
tagC115Ewin&&&
                HEIGHT
                                 = 3.98333
tagC115Ewin&&&
                WIDTH
                                 = 0.983333
tagC115Ewin&&&
                                 = 2.781
                FRAME-CONDUCT
tagC115Ewin&&&
                . .
tagC115Ewin&&&"EL2 East Win (G.WSW8.E22.W3)" = WINDOW
```

tagC115Ewin&&& GLASS-TYPE = "718 Window Type #1 GT" tagC115Ewin&&& FRAME-WIDTH = 0.00833333tagC115Ewin&&& X = 9.00833 tagC115Ewin&&& Y = 3.00833 tagC115Ewin&&& HEIGHT = 3.98333 tagC115Ewin&&& WIDTH = 0.983333 FRAME-CONDUCT tagC115Ewin&&& = 2.781 tagC115Ewin&&& tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL NEXT-TO = "C100 Plnm (G.N34)" tagC100CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC100CEI&&& = TOP tagC100CEI&&& LOCATION tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL tagC101CEI&&& NEXT-TO = "C101 Plnm (G.NW33)" tagC101CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC101CEI&&& tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& LOCATION = TOP tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC103CEI&&& LOCATION = TOP tagC103CEI&&& tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL tagC104CEI&&& NEXT-TO = "C104 Plnm (G.WNW32)" tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC104CEI&&& = TOP LOCATION tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL tagC105CEI&&& NEXT-TO = "C105 Plnm (G.W29)" CONSTRUCTION tagC105CEI&&& = "EL1 Ceilg Construction"

tagC105CEI&&& LOCATION = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL tagC106CEI&&& NEXT-TO = "C106 Plnm (G.W27)" CONSTRUCTION = "EL1 Ceilg Construction" tagC106CEI&&& LOCATION tagC106CEI&&& = TOP tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&& tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC107CEI&&& LOCATION tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL tagC108CEI&&& NEXT-TO = "C108 Plnm (G.WSW26)" tagC108CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC108CEI&&& tagC108CEI&&& . . tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL NEXT-TO = "C109 Plnm (G.S25)" tagC109CEI&&& tagC109CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC109CEI&&& LOCATION = TOP tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL NEXT-TO = "C110 Plnm (G.S23)" tagC110CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC110CEI&&& LOCATION = TOP tagC110CEI&&& tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL tagC111CEI&&& NEXT-TO = "C111 Plnm (G.S22)" tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC111CEI&&& LOCATION = TOP tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL tagC112CEI&&& NEXT-TO = "C112 C113 Plnm (G.C24)" tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"

```
tagC112CEI&&&
              LOCATION
                              = TOP
tagC112CEI&&&
               . .
tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL
tagC114CEI&&&
             NEXT-TO
                        = "C114 Plnm (G.E21)"
tagC114CEI&&&
              CONSTRUCTION
                            = "EL1 Ceilg Construction"
tagC114CEI&&&
              LOCATION
                              = TOP
tagC114CEI&&&
               . .
tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL
              NEXT-TO = "C115 Plnm (G.E36)"
tagC115CEI&&&
              CONSTRUCTION = "EL1 Ceilg Construction"
tagC115CEI&&&
                              = TOP
tagC115CEI&&&
              LOCATION
tagC115CEI&&&
               . .
tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL
tagC116CEI&&&
                              = "C116 Plnm (G.ESE20)"
              NEXT-TO
              CONSTRUCTION = "EL1 Ceilg Construction"
tagC116CEI&&&
tagC116CEI&&&
              LOCATION
                              = TOP
tagC116CEI&&&
               . .
tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL
                              = "C117 Plnm (G.NE19)"
tagC117CEI&&&
              NEXT-TO
                              = "EL1 Ceilg Construction"
tagC117CEI&&&
              CONSTRUCTION
tagC117CEI&&&
              LOCATION
                              = TOP
tagC117CEI&&&
              . .
tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALL
tagC118CEI&&&
              NEXT-TO
                              = "minifoyer Plnm (G.C30)"
tagC118CEI&&&
              CONSTRUCTION
                              = "EL1 Ceilg Construction"
tagC118CEI&&&
              LOCATION
                              = TOP
tagC118CEI&&&
              . .
```

I.1.8 Participant 730

tagaaa&&&	DRYBULB-HIGH	=	94	ł			
tagaaa&&&	DRYBULB-RANGE	=	26	5			
tagaab&&&	DRYBULB-HIGH	=	29)			
tagaac&&&	ALTITUDE	=	67	7			
tagEWALL&&&	ROUGHNESS		=	4			
tagEWALL&&&	LAYERS		=	"730	EWall	Cons	Layers"

TYPE tagIWALL&&& = U-VALUE tagIWALL&&& U-VALUE = 2.7 tagbb1&&& tagcc1&&& PROCESS-FLOW = (0.0615477)PROCESS-SCH = ("730 Bldg Occup Sch") tagcc1&&& tagcc2&&& TYPE = GAS TANK-VOLUME = 16.6179 tagcc2&&& CAPACITY = 0.0221483 HIR-FPLR = "DW-Gas-Pilotless-HIR-fPLR" TANK-UA = 0.692412 tagcc2&&& tagcc2&&& tagcc2&&& LOCATION tagcc2&&& = ZONE = "EL1 Core Zn (G.C17)" tagcc2&&& ZONE-NAME DHW-LOOP = "DHW Plant 1 Loop (1)" tagcc2&&& C-ENERGY-FACTOR = 0.588426 tagcc2&&& = 12 tagHEI&&& FLOOR-HEIGHT tagHEI&&& SPACE-HEIGHT = 9 tagC100ZTY&&& ZONE-TYPE = CONDITIONED tagC101ZTY&&& ZONE-TYPE = CONDITIONED ZONE-TYPE tagC102ZTY&&& = CONDITIONED tagC103ZTY&&& ZONE-TYPE = CONDITIONED tagC104ZTY&&& ZONE-TYPE = CONDITIONED tagC105ZTY&&& ZONE-TYPE = CONDITIONED = CONDITIONED tagC106ZTY&&& ZONE-TYPE tagC107ZTY&&& ZONE-TYPE = CONDITIONED tagC108ZTY&&& ZONE-TYPE = CONDITIONED tagC109ZTY&&& = CONDITIONED ZONE-TYPE tagC110ZTY&&& ZONE-TYPE = CONDITIONED tagC111ZTY&&& ZONE-TYPE = CONDITIONED tagC112ZTY&&& ZONE-TYPE = CONDITIONED tagC114ZTY&&& ZONE-TYPE = CONDITIONED tagC115ZTY&&& ZONE-TYPE = CONDITIONED tagC116ZTY&&& ZONE-TYPE = CONDITIONED tagC117ZTY&&& ZONE-TYPE = CONDITIONED = CONDITIONED tagC118ZTY&&& ZONE-TYPE PEOPLE-SCHEDULE = "730 Bldg Occup Sch" tagC100PSC&&&

tagC101PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC102PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC103PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC104PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC105PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC106PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC107PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC108PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC109PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC110PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC111PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC112PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC114PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC115PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC116PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC117PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
tagC118PSC&&&	PEOPLE-SCHEDULE	=	"7	730	Bldg	00	cup	Sc	ch"		
			,						-	a	,
tagC100LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIG	1g	Insl	_t	Prm	Sch"	
tagC101LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIC	lg	Insl	_t	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIC	ıg	Insl	JU	Prm	Sch"	
tagC103LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIC	lg	Insl	_t	Prm	Sch"	
tagCI04LSC&&&	LIGHTING-SCHEDUL	=	("/:	SO BIC	ıg	Insl	JU	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIO	1g	Insl	JT	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIC	ıg	Insl	JU	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIO	1g	Insl	JT	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIC	ıg	Insl	JU	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIC	1g	Insl	JT	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIC	ıg	Insl	JU	Prm	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIC	1g	Insl	JT	Cor	Sch"	
	LIGHTING-SCHEDUL	=	("/:	SO BIC	ıg	Insl	JU	Prm	Sch"	
tagC114LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIG	1g	Insl	_t	Prm	Sch"	
tagC115LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIG	lg	Insl	_t	Cor	Sch"	
tagC116LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIG	lg	Insl	₋t	Prm	Sch"	
tagC117LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIG	lg	Insl	₋t	Prm	Sch"	
tagC118LSC&&&	LIGHTING-SCHEDUL	=	("73	SO BIO	lg	lnsl	₋t	Prm	Sch")
tagC100ESC&&&	EQUIP-SCHEDULE	=	("73	30 Blo	lg	OffE	Ea	Prm	Sch"	
tagC101ESC&&&	EQUIP-SCHEDULE	=	("73	30 Bla	lg	OffE	Ea	Prm	Sch"	
tagC102ESC&&&	EQUIP-SCHEDULE	=	("73	30 Blo	lg	OffF	Ea	Prm	Sch"	,
tagC103ESC&&&	EQUIP-SCHEDULF	=	("73	30 Blo	lg	OffF	Ea	Prm	Sch"	
tagC104ESC&&&	EQUIP-SCHEDULE	=	("73	80 Blo	lg	OffE	Eq	Prm	Sch"	,
-	-					-		-			

))))))))))))))))))

tagC105ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC106ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC107ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC108ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC109ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC110ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC111ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Cor Sch",
tagC112ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC114ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC115ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Cor Sch",
tagC116ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC117ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC118ESC&&&	EQUIP-SCHEDULE	= ("730 Bldg OffEq Prm Sch",
tagC100ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC101ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC102ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC103ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC104ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC105ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC106ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC107ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC108ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC109ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC110ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC111ESC&&&	"730 Bldg	OffEq Cor Sch", "730 Bldg OffEq Cor Sch")
tagC112ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC114ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC115ESC&&&	"730 Bldg	OffEq Cor Sch", "730 Bldg OffEq Cor Sch")
tagC116ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC117ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC118ESC&&&	"730 Bldg	OffEq Prm Sch", "730 Bldg OffEq Prm Sch")
tagC100ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC101ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC102ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC103ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC104ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC105ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC106ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC107ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC108ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"
tagC109ISC&&&	INF-SCHEDULE	= "730 GndCor Sys1 Infil Sch"

tagC110ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch"
tagC111ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch'
tagC112ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch"
tagC114ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch"
tagC115ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch"
tagC116ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch"
tagC117ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch"
tagC118ISC&&&	INF-SCHEDULE	=	"730	${\tt GndCor}$	Sys1	Infil	Sch"
tagC100IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC101IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC102IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC103IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC104IME&&&	INF-METHOD	=	AIR-0	CHANGE			
tagC105IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC106IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC107IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC108IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC109IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC110IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC111IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC112IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC114IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC115IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC116IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC117IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC118IME&&&	INF-METHOD	=	AIR-O	CHANGE			
tagC100IFA&&&	INF-FLOW/AREA	=	0.008	355			
tagC101IFA&&&	INF-FLOW/AREA	=	0.055	5575			
tagC102IFA&&&	INF-FLOW/AREA	=	0.008	355			
tagC103IFA&&&	INF-FLOW/AREA	=	0.021	1375			
tagC104IFA&&&	INF-FLOW/AREA	=	0.021	L375			
tagC105IFA&&&	INF-FLOW/AREA	=	0.021	1375			
tagC106IFA&&&	INF-FLOW/AREA	=	0.021	L375			
tagC107IFA&&&	INF-FLOW/AREA	=	0.021	1375			
tagC108IFA&&&	INF-FLOW/AREA	=	0.017	79371			
tagC109IFA&&&	INF-FLOW/AREA	=	0.057	7			
tagC110IFA&&&	INF-FLOW/AREA	=	0.015	55455			
tagC111IFA&&&	INF-FLOW/AREA	=	0.001	L			
tagC112IFA&&&	INF-FLOW/AREA	=	0.015	55455			
tagC114IFA&&&	INF-FLOW/AREA	=	0.039	99877			

tagC115IFA&&&	INF-FLOW/AREA	=	0.001
tagC116IFA&&&	INF-FLOW/AREA	=	0.0263077
tagC117IFA&&&	INF-FLOW/AREA	=	0.0445462
tagC118IFA&&&	INF-FLOW/AREA	=	0.00855
tagC100PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC101PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC102PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC103PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC104PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC105PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC106PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC107PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC108PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC109PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC110PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC111PHL&&&	PEOPLE-HG-LAT	=	250
tagC112PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC114PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC115PHL&&&	PEOPLE-HG-LAT	=	250
tagC116PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC117PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC118PHL&&&	PEOPLE-HG-LAT	=	196.227
tagC100PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC101PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC102PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC103PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC104PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC105PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC106PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC107PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC108PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC109PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC110PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC111PHS&&&	PEOPLE-HG-SENS	=	250
tagC112PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC114PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC115PHS&&&	PEOPLE-HG-SENS	=	250
tagC116PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC117PHS&&&	PEOPLE-HG-SENS	=	247.662
tagC118PHS&&&	PEOPLE-HG-SENS	=	247.662

tagC100NOP&&&				
tagC101NOP&&&				
tagC102NOP&&&				
tagC103NOP&&&				
tagC104NOP&&&				
tagC105NOP&&&				
tagC106NOP&&&				
tagC107NOP&&&				
tagC108NOP&&&				
tagC109NOP&&&				
tagC110NOP&&&				
tagC111NOP&&&				
tagC112NOP&&&				
tagC114NOP&&&				
tagC115NOP&&&				
tagC116NOP&&&				
tagC117NOP&&&				
tagC118NOP&&&				
tagC100LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC101LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC102LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC103LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC104LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC105LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC106LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC107LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC108LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC109LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC110LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC111LWA&&&	LIGHTING-W/AREA	=	(0.60000)
tagC112LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC114LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC115LWA&&&	LIGHTING-W/AREA	=	(0.60000)
tagC116LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC117LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC118LWA&&&	LIGHTING-W/AREA	=	(1.18862)
tagC100EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC101EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC102EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)

tagC103EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC104EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC105EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC106EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC107EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC108EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC109EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC110EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC111EWA&&&	EQUIPMENT-W/AREA	=	(0.2, 0, 0)
tagC112EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC114EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC115EWA&&&	EQUIPMENT-W/AREA	=	(0.2, 0, 0)
tagC116EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC117EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC118EWA&&&	EQUIPMENT-W/AREA	=	(1.06436, 0, 0)
tagC100APE&&&	AREA/PERSON	=	99.1996
tagC101APE&&&	AREA/PERSON	=	99.1996
tagC102APE&&&	AREA/PERSON	=	99.1996
tagC103APE&&&	AREA/PERSON	=	99.1996
tagC104APE&&&	AREA/PERSON	=	99.1996
tagC105APE&&&	AREA/PERSON	=	99.1996
tagC106APE&&&	AREA/PERSON	=	99.1996
tagC107APE&&&	AREA/PERSON	=	99.1996
tagC108APE&&&	AREA/PERSON	=	99.1996
tagC109APE&&&	AREA/PERSON	=	99.1996
tagC110APE&&&	AREA/PERSON	=	99.1996
tagC111APE&&&	AREA/PERSON	=	150
tagC112APE&&&	AREA/PERSON	=	99.1996
tagC114APE&&&	AREA/PERSON	=	99.1996
tagC115APE&&&	AREA/PERSON	=	150
tagC116APE&&&	AREA/PERSON	=	99.1996
tagC117APE&&&	AREA/PERSON	=	99.1996
tagC118APE&&&	AREA/PERSON	=	99.1996

HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch" COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch" "S1 Sys1 (PSZ) Fan Sch"

tagC117Ewin&&&"East Win (G.NE5.E8.W1)" = WINDOW
tagC117Ewin&&& GLASS-TYPE = "730 Window Type #2 GT"

tagC117Ewin&&& FRAME-WIDTH = 0.108333 tagC117Ewin&&& Х = 0.668333tagC117Ewin&&& Y = 3.10833 tagC117Ewin&&& = 3.78333 HEIGHT tagC117Ewin&&& WIDTH = 5.78333 tagC117Ewin&&& FRAME-CONDUCT = 2.781 tagC117Ewin&&& . . tagC117Nwin&&&"North Win (G.NE5.E7.W1)" = WINDOW GLASS-TYPE = "730 Window Type #1 GT" tagC117Nwin&&& tagC117Nwin&&& FRAME-WIDTH = 0.108333 tagC117Nwin&&& X = 5.14833tagC117Nwin&&& Y = 3.04833tagC117Nwin&&& HEIGHT = 3.78333 WIDTH tagC117Nwin&&& = 5.78333tagC117Nwin&&& FRAME-CONDUCT = 2.781 tagC117Nwin&&& . . tagC116Swin&&& tagC116Ewin&&&"East Win (G.E3.E5.W1)" = WINDOW tagC116Ewin&&& GLASS-TYPE = "730 Window Type #2 GT" tagC116Ewin&&& FRAME-WIDTH = 0.108333 tagC116Ewin&&& X = 10.6083tagC116Ewin&&& Y = 3.10833 tagC116Ewin&&& HEIGHT = 3.78333tagC116Ewin&&& WIDTH = 5.78333 tagC116Ewin&&& FRAME-CONDUCT = 2.781 tagC116Ewin&&& . . tagC116Ewin&&&"East Door (G.E3.E5.D1)" = DOOR = "Sgl Lyr Unins Mtl Door" tagC116Ewin&&& CONSTRUCTION = 6.5 tagC116Ewin&&& Х = 7 tagC116Ewin&&& HEIGHT = 3 tagC116Ewin&&& WIDTH tagC116Ewin&&& . . tagC116Nwin&&& tagC114Nwin&&& tagC114Swin&&&"South Win (G.ESE7.E11.W1)" = WINDOW tagC114Swin&&& GLASS-TYPE = "730 Window Type #2 GT" tagC114Swin&&& FRAME-WIDTH = 0.108333
```
tagC114Swin&&&
                Х
                                 = 0.628333
tagC114Swin&&&
                Y
                                 = 3.10833
tagC114Swin&&&
                                 = 3.78333
                HEIGHT
tagC114Swin&&&
                WIDTH
                                 = 2.78333
tagC114Swin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC114Swin&&&
                 . .
tagC114Ewin&&&"East Win (G.ESE7.E10.W1)" = WINDOW
                                 = "730 Window Type #2 GT"
tagC114Ewin&&&
                GLASS-TYPE
tagC114Ewin&&&
                FRAME-WIDTH
                                 = 0.108333
                                 = 10.6083
tagC114Ewin&&& X
tagC114Ewin&&& Y
                                 = 3.10833
tagC114Ewin&&& HEIGHT
                                 = 3.78333
tagC114Ewin&&&
                WIDTH
                                 = 5.78333
tagC114Ewin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC114Ewin&&&
                 . .
tagC114Ewin&&&"East Door (G.ESE7.E10.D1)" = DOOR
                CONSTRUCTION
                                 = "Sgl Lyr Unins Mtl Door"
tagC114Ewin&&&
                                 = 0
tagC114Ewin&&&
                Х
                                 = 7
tagC114Ewin&&&
                HEIGHT
tagC114Ewin&&&
                WIDTH
                                 = 3
tagC114Ewin&&&
                 . .
tagC111Swin&&&
tagC110Swin&&&"South Door (G.S9.E15.D1)" = DOOR
tagC110Swin&&&
                CONSTRUCTION
                                 = "Sgl Lyr Unins Mtl Door"
tagC110Swin&&&
                Х
                                 = 0
                HEIGHT
tagC110Swin&&&
                                 = 7
tagC110Swin&&&
                                 = 3
                WIDTH
tagC110Swin&&&
                 . .
tagC109Ewin&&&"East Win (G.S8.E13.W1)" = WINDOW
tagC109Ewin&&&
                GLASS-TYPE
                                 = "730 Window Type #2 GT"
tagC109Ewin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC109Ewin&&&
                Х
                                 = 0.828333
tagC109Ewin&&&
                Y
                                 = 3.10833
tagC109Ewin&&&
                HEIGHT
                                 = 3.78333
                                 = 5.78333
tagC109Ewin&&&
                WIDTH
tagC109Ewin&&&
                                 = 2.781
                FRAME-CONDUCT
tagC109Ewin&&&
                 . .
```

tagC109Wwin&&&"West Win (G.S8.E14.W1)" = WINDOW tagC109Wwin&&& GLASS-TYPE = "730 Window Type #2 GT" tagC109Wwin&&& FRAME-WIDTH = 0.108333 tagC109Wwin&&& Х = 5.46533 tagC109Wwin&&& Y = 3.13643tagC109Wwin&&& HEIGHT = 3.78333 tagC109Wwin&&& WIDTH = 5.78333tagC109Wwin&&& FRAME-CONDUCT = 2.781tagC109Wwin&&& . . tagC109Swin&&& tagC108swin&&& tagC108Swin&&&"South Door (G.WSW2.E3.D1)" = DOOR tagC108Swin&&& CONSTRUCTION = "Sgl Lyr Unins Mtl Door" tagC108Swin&&& Х = 0 tagC108Swin&&& = 7 HEIGHT tagC108Swin&&& WIDTH = 3 tagC108Swin&&& . . tagC108Wwin&&&"West Win (G.WSW2.E4.W1)" = WINDOW tagC108Wwin&&& GLASS-TYPE = "730 Window Type #2 GT" tagC108Wwin&&& FRAME-WIDTH = 0.108333tagC108Wwin&&& X = 0.998333tagC108Wwin&&& Y = 3.10833 tagC108Wwin&&& HEIGHT = 3.78333tagC108Wwin&&& WIDTH = 5.78333 tagC108Wwin&&& FRAME-CONDUCT = 2.781 tagC108Wwin&&& . . tagC106Wwin&&&"West Door (G.W6.E9.D1)" = DOOR tagC106Wwin&&& CONSTRUCTION = "Sgl Lyr Unins Mtl Door" tagC106Wwin&&& Х = 1.3 = 7 tagC106Wwin&&& HEIGHT = 3 tagC106Wwin&&& WIDTH tagC106Wwin&&& . . tagC105Wwin&&&"West Win (G.W6.E9.W1)" = WINDOW tagC105Wwin&&& GLASS-TYPE = "730 Window Type #2 GT" tagC105Wwin&&& FRAME-WIDTH = 0.108333= 1.48538 tagC105Wwin&&& X Y tagC105Wwin&&& = 3.64229

tagC105Wwin&&&	HEIGHT	= 3.78333	
tagC105Wwin&&&	WIDTH	= 5.78333	
tagC105Wwin&&&	FRAME-CONDUCT	= 2.781	
tagC105Wwin&&&			
tagC104Nwin&&&			
tagC104Wwin&&&			
tagC101Wwin&&&"	West Win (G.NNW1.	E1.W1)" = WINDOW	
tagC101Wwin&&&	GLASS-TYPE	= "730 Window Type a	#2 GT"
tagC101Wwin&&&	FRAME-WIDTH	= 0.108333	
tagC101Wwin&&&	Х	= 0.508333	
tagC101Wwin&&&	Y	= 3.10833	
tagC101Wwin&&&	HEIGHT	= 3.78333	
tagC101Wwin&&&	WIDTH	= 5.78333	
tagC101Wwin&&&	FRAME-CONDUCT	= 2.781	
tagC101Wwin&&&			
tagC101Nwin&&&"	North Win (G.NNW1	E2.W1)" = WINDOW	
tagC101Nwin&&&	GLASS-TYPE	= "730 Window Type a	#1 GT"
tagC101Nwin&&&	FRAME-WIDTH	= 0.108333	
tagC101Nwin&&&	Х	= 6.09833	
tagC101Nwin&&&	Y	= 2.71833	
tagC101Nwin&&&	HEIGHT	= 3.78333	
tagC101Nwin&&&	WIDTH	= 5.78333	
tagC101Nwin&&&	FRAME-CONDUCT	= 2.781	
tagC101Nwin&&&			
tagC100Nwin&&&"	North Win (G.N4.E	C6.W1)" = WINDOW	
tagC100Nwin&&&	GLASS-TYPE	= "730 Window Type a	#1 GT"
tagC100Nwin&&&	FRAME-WIDTH	= 0.108333	
tagC100Nwin&&&	Х	= 0.108333	
tagC100Nwin&&&	Y	= 3.10833	
tagC100Nwin&&&	HEIGHT	= 3.78333	
tagC100Nwin&&&	WIDTH	= 2.78333	
tagC100Nwin&&&	FRAME-CONDUCT	= 2.781	
tagC100Nwin&&&			
tagC100Nwin&&&"	North Win (G.N4.E	(6.W2)'' = WINDOW	
tagC100Nwin&&&	GLASS-TYPE	= "730 Window Type #	#1 GT"
tagC100Nwin&&&	FRAME-WIDTH	= 0.108333	
tagC100Nwin&&&	Х	= 12.4631	
tagC100Nwin&&&	Y	= 3.08023	

```
tagC100Nwin&&&
                 HEIGHT
                                  = 3.78333
tagC100Nwin&&&
                 WIDTH
                                  = 2.78333
tagC100Nwin&&&
                 FRAME-CONDUCT
                                  = 2.781
tagC100Nwin&&&
                 . .
tagC100Nwin&&&"North Door (G.N4.E6.D1)" = WINDOW
tagC100Nwin&&&
                 GLASS-TYPE
                                  = "730 Window Type #1 GT"
tagC100Nwin&&&
                FRAME-WIDTH
                                  = 0.25
                                  = 4.19262
tagC100Nwin&&&
                Х
                                  = 0.25
tagC100Nwin&&&
                Y
                                 = 6.5
tagC100Nwin&&&
                HEIGHT
tagC100Nwin&&&
                 WIDTH
                                  = 2.5
tagC100Nwin&&&
                 FRAME-CONDUCT
                                 = 3.079
tagC100Nwin&&&
                 . .
tagC100Nwin&&&"North Door (G.N4.E6.D2)" = WINDOW
tagC100Nwin&&&
                 GLASS-TYPE
                                  = "730 Window Type #1 GT"
tagC100Nwin&&&
                FRAME-WIDTH
                                  = 0
                                  = 7.17
tagC100Nwin&&&
                Х
                                  = 0
tagC100Nwin&&&
                Y
                                  = 7
tagC100Nwin&&&
                HEIGHT
tagC100Nwin&&&
                WIDTH
                                  = 3
tagC100Nwin&&&
                 FRAME-CONDUCT
                                 = 3.079
tagC100Nwin&&&
                 . .
tagC115Ewin&&&"East Door (G.ESE7.E10.D2)" = WINDOW
                                  = "730 Window Type #1 GT"
tagC115Ewin&&&
                 GLASS-TYPE
tagC115Ewin&&&
                FRAME-WIDTH
                                 = 0.25
tagC115Ewin&&&
                Х
                                  = 3.375
tagC115Ewin&&&
                Y
                                  = 0.25
tagC115Ewin&&&
                                  = 6.5
                HEIGHT
                                  = 2.5
tagC115Ewin&&&
                 WIDTH
tagC115Ewin&&&
                FRAME-CONDUCT
                                 = 3.079
tagC115Ewin&&&
                 . .
tagC115Ewin&&&"East Door (G.ESE7.E10.D3)" = WINDOW
tagC115Ewin&&&
                 GLASS-TYPE
                                  = "730 Window Type #1 GT"
tagC115Ewin&&&
                FRAME-WIDTH
                                  = 0
                                  = 6.125
tagC115Ewin&&&
                Х
                                  = 0
tagC115Ewin&&&
                Y
                                  = 7
tagC115Ewin&&&
                HEIGHT
                                  = 3
tagC115Ewin&&&
                 WIDTH
tagC115Ewin&&&
                                 = 3.079
                 FRAME-CONDUCT
tagC115Ewin&&&
                 . .
```

tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL NEXT-TO = "C100 Plnm (G.N34)" tagC100CEI&&& tagC100CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC100CEI&&& LOCATION = TOP tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL tagC101CEI&&& NEXT-TO = "C101 Plnm (G.NW33)" tagC101CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC101CEI&&& LOCATION = TOP tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL tagC102CEI&&& NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC102CEI&&& LOCATION tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC103CEI&&& tagC103CEI&&& = TOP LOCATION tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL NEXT-TO = "C104 Plnm (G.WNW32)" tagC104CEI&&& tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC104CEI&&& LOCATION = TOP tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL tagC105CEI&&& NEXT-TO = "C105 Plnm (G.W29)" tagC105CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION tagC105CEI&&& = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL tagC106CEI&&& NEXT-TO = "C106 Plnm (G.W27)" CONSTRUCTION = "EL1 Ceilg Construction" tagC106CEI&&& = TOP tagC106CEI&&& LOCATION tagC106CEI&&& . .

tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC107CEI&&& LOCATION tagC107CEI&&& = TOP tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL NEXT-TO = "C108 Plnm (G.WSW26)" tagC108CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC108CEI&&& tagC108CEI&&& LOCATION = TOP tagC108CEI&&& . . tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL tagC109CEI&&& NEXT-TO = "C109 Plnm (G.S25)" tagC109CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC109CEI&&& LOCATION tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL = "C110 Plnm (G.S23)" tagC110CEI&&& NEXT-TO = "EL1 Ceilg Construction" tagC110CEI&&& CONSTRUCTION tagC110CEI&&& LOCATION = TOP tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL = "C111 Plnm (G.S22)" tagC111CEI&&& NEXT-TO tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC111CEI&&& LOCATION = TOP tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL NEXT-TO = "C112 C113 Plnm (G.C24)" tagC112CEI&&& tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION tagC112CEI&&& = TOP tagC112CEI&&& . . tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL tagC114CEI&&& NEXT-TO = "C114 Plnm (G.E21)" tagC114CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC114CEI&&& LOCATION = TOP tagC114CEI&&& . .

tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL tagC115CEI&&& NEXT-TO = "C115 Plnm (G.E36)" = "EL1 Ceilg Construction" tagC115CEI&&& CONSTRUCTION tagC115CEI&&& LOCATION = TOP tagC115CEI&&& . . tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)" tagC116CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC116CEI&&& LOCATION = TOP tagC116CEI&&& . . tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL = "C117 Plnm (G.NE19)" tagC117CEI&&& NEXT-TO tagC117CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC117CEI&&& LOCATION tagC117CEI&&& . . tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALL tagC118CEI&&& NEXT-TO = "minifoyer Plnm (G.C30)" CONSTRUCTION = "EL1 Ceilg Construction" tagC118CEI&&& tagC118CEI&&& LOCATION = TOP tagC118CEI&&& . .

I.1.9 Participant 731

tagaaa&&& tagaaa&&& tagaab&&& tagaac&&&	DRYBULB-HIGH DRYBULB-RANGE DRYBULB-HIGH ALTITUDE	= = =	94 26 29 67
tagEWALL&&& tagEWALL&&&	ROUGHNESS LAYERS		= 4 = "731 EWall Cons Layers"
tagIWALL&&& tagIWALL&&& tagbb1&&&	TYPE U-VALUE		= U-VALUE = 2.7

tagcc1&&&	PROCESS-FLOW	=	(0.03)					
tagcc1&&&	PROCESS-SCH	=	("MajDD	DHW	Eqp	NRes	Sch")

tagcc2&&&	TYPE	= GAS				
tagcc2&&&	TANK-VOLUME	= 9.91	.691			
tagcc2&&&	CAPACITY	= 0.01	32173	3		
tagcc2&&&	HIR-FPLR	= "DW-	-Gas-l	Pilot	less-H	IR-fPLR"
tagcc2&&&	TANK-UA	= 0.41	.3204			
tagcc2&&&	LOCATION	= ZONE	2			
tagcc2&&&	ZONE-NAME	= "EL1	Core	e Zn	(G.C17))"
tagcc2&&&	DHW-LOOP	= "DHV	/ Plai	nt 1 I	Loop (1	1)"
tagcc2&&&	C-ENERGY-FACTOR	= 0.60)1158			
tagHEI&&&	FLOOR-HEIGHT	= 12				
tagHEI&&&	SPACE-HEIGHT	= 9.17	7			
tagC100ZTY&&	t& ZONE-TYPE	=	COND	ITION	ED	
tagC101ZTY&&	t& ZONE-TYPE	=	COND	ITIONE	ED	
tagC102ZTY&&	t& ZONE-TYPE	=	COND	ITIONE	ED	
tagC103ZTY&&	t& ZONE-TYPE	=	COND	ITIONE	ED	
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tagC117ZTY&&	t& ZONE-TYPE	=	COND	ITIONE	ED	
tagC118ZTY&&	t& ZONE-TYPE	=	COND	ITIONE	ED	
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tagC101PSC&&	t& PEOPLE-SCHED	ULE =	"731	Bldg	Occup	Sch"
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tagC107PSC&&	k& PEOPLE-SCHED	ULE =	"731	Bldg	Occup	Sch"
tagC108PSC&&	k& PEOPLE-SCHED	ULE =	"731	Bldg	Occup	Sch"
tagC109PSC&&	k& PEOPLE-SCHED	ULE =	"731	Bldg	Occup	Sch"

tagC110PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Oo	cup So	ch"	
tagC111PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Oo	cup So	ch"	
tagC112PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Oo	cup So	ch"	
tagC114PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Oo	cup So	ch"	
tagC115PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Od	cup So	ch"	
tagC116PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Od	cup So	ch"	
tagC117PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Od	cup So	ch"	
tagC118PSC&&&	PEOPLE-SCHEDULE	=	"7	731 B	ldg Od	cup So	ch"	
•					Ū	-		
tagC100LSC&&&	LIGHTING-SCHEDUL	=	("731	Bldg	InsLt	Sch")
tagC101LSC&&&	LIGHTING-SCHEDUL	=	("731	Bldg	InsLt	Sch")
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tagC114ESC&&&	EQUIP-SCHEDULE	=	("731	Bldg	OffEq	Sch"	,

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tagC116ESC&&&	EQUIP-SCHEDULE	= ("731 Bldg OffEq	Sch",
tagC117ESC&&&	EQUIP-SCHEDULE	= ("731 Bldg OffEq	Sch",
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tagC100ESC&&&	"731 Bldg	OffEq Sch", "731 Bldg	OffEq Sch")
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tagC102ESC&&&	"731 Bldg	OffEq Sch", "731 Bldg	OffEq Sch")
tagC103ESC&&&	"731 Bldg	OffEq Sch", "731 Bldg	OffEq Sch")
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tagC105ESC&&&	"731 Bldg	OffEq Sch", "731 Bldg	OffEq Sch")
tagC106ESC&&&	"731 Bldg	OffEq Sch", "731 Bldg	OffEq Sch")
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tagC108ESC&&&	"731 Bldg	OffEq Sch","731 Bldg	OffEq Sch")
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tagC110ESC&&&	"731 Bldg	OffEq Sch","731 Bldg	OffEq Sch")
tagC111ESC&&&	"731 Bldg	OffEq Sch","731 Bldg	OffEq Sch")
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tagC101ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC102ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	C-Inf Sch"
tagC103ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	C-Inf Sch"
tagC104ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
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tagC108ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC109ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC110ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC111ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC112ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	C-Inf Sch"
tagC114ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC115ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC116ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC117ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	P-Inf Sch"
tagC118ISC&&&	INF-SCHEDULE	= "731 ZGO-S1 (PSZ)	C-Inf Sch"

tagC100IME&&&	INF-METHOD	=	AIR-CHANGE
tagC101IME&&&	INF-METHOD	=	AIR-CHANGE
tagC102IME&&&	INF-METHOD	=	AIR-CHANGE
tagC103IME&&&	INF-METHOD	=	AIR-CHANGE
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tagC109IME&&&	INF-METHOD	=	AIR-CHANGE
tagC110IME&&&	INF-METHOD	=	AIR-CHANGE
tagC111IME&&&	INF-METHOD	=	AIR-CHANGE
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tagC117IME&&&	INF-METHOD	=	AIR-CHANGE
tagC118IME&&&	INF-METHOD	=	AIR-CHANGE
tagC100IFA&&&	INF-FLOW/AREA	=	0.034846
tagC101IFA&&&	INF-FLOW/AREA	=	0.0616506
tagC102IFA&&&	INF-FLOW/AREA	=	0.001
tagC103IFA&&&	INF-FLOW/AREA	=	0.001
tagC104IFA&&&	INF-FLOW/AREA	=	0.0598916
tagC105IFA&&&	INF-FLOW/AREA	=	0.0217787
tagC106IFA&&&	INF-FLOW/AREA	=	0.04978
tagC107IFA&&&	INF-FLOW/AREA	=	0.001
tagC108IFA&&&	INF-FLOW/AREA	=	0.0196405
tagC109IFA&&&	INF-FLOW/AREA	=	0.0629164
tagC110IFA&&&	INF-FLOW/AREA	=	0.0580767
tagC111IFA&&&	INF-FLOW/AREA	=	0.0580767
tagC112IFA&&&	INF-FLOW/AREA	=	0.001
tagC114IFA&&&	INF-FLOW/AREA	=	0.0672952
tagC115IFA&&&	INF-FLOW/AREA	=	0.0148281
tagC116IFA&&&	INF-FLOW/AREA	=	0.0553111
tagC117IFA&&&	INF-FLOW/AREA	=	0.0527668
tagC118IFA&&&	INF-FLOW/AREA	=	0.001
tagC100PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC101PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC102PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC103PHL&&&	PEOPLE-HG-LAT	=	201.607

tagC104PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC105PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC106PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC107PHL&&&	PEOPLE-HG-LAT	=	201.607
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tagC111PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC112PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC114PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC115PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC116PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC117PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC118PHL&&&	PEOPLE-HG-LAT	=	201.607
tagC100PHS&&&	PEOPLE-HG-SENS	=	249.229
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tagC104PHS&&&	PEOPLE-HG-SENS	=	249.229
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tagC111PHS&&&	PEOPLE-HG-SENS	=	249.229
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tagC114PHS&&&	PEOPLE-HG-SENS	=	249.229
tagC115PHS&&&	PEOPLE-HG-SENS	=	249.229
tagC116PHS&&&	PEOPLE-HG-SENS	=	249.229
tagC117PHS&&&	PEOPLE-HG-SENS	=	249.229
tagC118PHS&&&	PEOPLE-HG-SENS	=	249.229
tagC100NOP&&&	NUMBER-OF-PEOPLE	=	5
tagC101NOP&&&	NUMBER-OF-PEOPLE	=	2
tagC102NOP&&&	NUMBER-OF-PEOPLE	=	10
tagC103NOP&&&	NUMBER-OF-PEOPLE	=	0
tagC104NOP&&&	NUMBER-OF-PEOPLE	=	0
tagC105NOP&&&	NUMBER-OF-PEOPLE	=	2
tagC106NOP&&&	NUMBER-OF-PEOPLE	=	0
tagC107NOP&&&	NUMBER-OF-PEOPLE	=	0

tagC108NOP&&&	NUMBER-OF-PEOPLE	=	10
tagC109NOP&&&	NUMBER-OF-PEOPLE	=	4
tagC110NOP&&&	NUMBER-OF-PEOPLE	=	0
tagC111NOP&&&	NUMBER-OF-PEOPLE	=	0
tagC112NOP&&&	NUMBER-OF-PEOPLE	=	0
tagC114NOP&&&	NUMBER-OF-PEOPLE	=	5
tagC115NOP&&&	NUMBER-OF-PEOPLE	=	5
tagC116NOP&&&	NUMBER-OF-PEOPLE	=	5
tagC117NOP&&&	NUMBER-OF-PEOPLE	=	10
tagC118NOP&&&	NUMBER-OF-PEOPLE	=	5
tagC100LWA&&&	LIGHTING-W/AREA	=	(1.503030303)
tagC101LWA&&&	LIGHTING-W/AREA	=	(0.953846154)
tagC102LWA&&&	LIGHTING-W/AREA	=	(1.753535354)
tagC103LWA&&&	LIGHTING-W/AREA	=	(0.968750000)
tagC104LWA&&&	LIGHTING-W/AREA	=	(0.468750000)
tagC105LWA&&&	LIGHTING-W/AREA	=	(0.989583333)
tagC106LWA&&&	LIGHTING-W/AREA	=	(0.885714286)
tagC107LWA&&&	LIGHTING-W/AREA	=	(1.333333333)
tagC108LWA&&&	LIGHTING-W/AREA	=	(1.014545455)
tagC109LWA&&&	LIGHTING-W/AREA	=	(1.31944444)
tagC110LWA&&&	LIGHTING-W/AREA	=	(0.909090909)
tagC111LWA&&&	LIGHTING-W/AREA	=	(0.666666667)
tagC112LWA&&&	LIGHTING-W/AREA	=	(0.533333333)
tagC114LWA&&&	LIGHTING-W/AREA	=	(1.005291005)
tagC115LWA&&&	LIGHTING-W/AREA	=	(0.439716312)
tagC116LWA&&&	LIGHTING-W/AREA	=	(1.005291005)
tagC117LWA&&&	LIGHTING-W/AREA	=	(1.085714286)
tagC118LWA&&&	LIGHTING-W/AREA	=	(1.753535354)
tagC100EWA&&&	EQUIPMENT-W/AREA	=	(0, 0, 1)
tagC101EWA&&&	EQUIPMENT-W/AREA	=	(1, 0, 1)
tagC102EWA&&&	EQUIPMENT-W/AREA	=	(0, 0, 1)
tagC103EWA&&&	EQUIPMENT-W/AREA	=	(0, 0, 1)
tagC104EWA&&&	EQUIPMENT-W/AREA	=	(0, 0, 1)
tagC105EWA&&&	EQUIPMENT-W/AREA	=	(1, 0, 1)
tagC106EWA&&&	EQUIPMENT-W/AREA	=	(10,0,1)
tagC107EWA&&&	EQUIPMENT-W/AREA	=	(3,0,1)
tagC108EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 1)
tagC109EWA&&&	EQUIPMENT-W/AREA	=	(2,0,1)
tagC110EWA&&&	EQUIPMENT-W/AREA	=	(0, 0, 1)
tagC111EWA&&&	EQUIPMENT-W/AREA	=	(0,0,1)

tagC112EWA&&&	EQUIPMENT-W/AREA	= (0, 0, 1)
tagC114EWA&&&	EQUIPMENT-W/AREA	= (1.5, 0, 1)
tagC115EWA&&&	EQUIPMENT-W/AREA	= (0, 0, 1)
tagC116EWA&&&	EQUIPMENT-W/AREA	= (1, 0, 1)
tagC117EWA&&&	EQUIPMENT-W/AREA	= (1, 0, 1)
tagC118EWA&&&	EQUIPMENT-W/AREA	= (0, 0, 1)
tagC100APE&&&	AREA/PERSON	= 192.802
tagC101APE&&&	AREA/PERSON	= 192.802
tagC102APE&&&	AREA/PERSON	= 192.802
tagC103APE&&&	AREA/PERSON	= 192.802
tagC104APE&&&	AREA/PERSON	= 192.802
tagC105APE&&&	AREA/PERSON	= 192.802
tagC106APE&&&	AREA/PERSON	= 192.802
tagC107APE&&&	AREA/PERSON	= 192.802
tagC108APE&&&	AREA/PERSON	= 192.802
tagC109APE&&&	AREA/PERSON	= 192.802
tagC110APE&&&	AREA/PERSON	= 192.802
tagC111APE&&&	AREA/PERSON	= 192.802
tagC112APE&&&	AREA/PERSON	= 192.802
tagC114APE&&&	AREA/PERSON	= 192.802
tagC115APE&&&	AREA/PERSON	= 192.802
tagC116APE&&&	AREA/PERSON	= 192.802
tagC117APE&&&	AREA/PERSON	= 200
tagC118APE&&&	AREA/PERSON	= 192.802
HEAT-TEMP-SCI	H = "MajDD Sys1	l (PSZ) Heat Sch"
COOL-TEMP-SCI	H = "MajDD Sys1	1 (PSZ) Cool Sch"
"S1 Sys1 (PSZ) 1	Fan Sch"	
tagC117Ewin&&&"	Window 41" = WIND(DW
tagC117Ewin&&&	GLASS-TYPE	= "731 Window Type #1 GT"
tagC117Ewin&&&	X	= 5
tagC117Ewin&&&	Y	= 3
tagC117Ewin&&&	HEIGHT	= 4
tagC117Ewin&&&	WIDTH	= 6
tagC117Ewin&&&		
+~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and North Wir (C. N	
$t_{agC117} \times 1000$	CIAGG_TVDE	wEI.EI.WI) = WINDUW $= W721 Window Two #1 (TT)$
Lagottimetiege	GLADD-IIFE	- ist willdow type #1 GI"

tagC117Nwin&&& FRAME-WIDTH = 0.108333 tagC117Nwin&&& = 3 Х tagC117Nwin&&& Y = 3.10833 tagC117Nwin&&& = 3.78333 HEIGHT tagC117Nwin&&& WIDTH = 5.78333tagC117Nwin&&& FRAME-CONDUCT = 2.781 tagC117Nwin&&& . . tagC116Swin&&& tagC116Ewin&&&"EL1 East Win (G.ESE2.E5.W2)" = WINDOW tagC116Ewin&&& GLASS-TYPE = "731 Window Type #1 GT" tagC116Ewin&&& FRAME-WIDTH = 0.108333tagC116Ewin&&& X = 6.10833 tagC116Ewin&&& Y = 3.10833tagC116Ewin&&& = 3.78333 HEIGHT = 5.78333 tagC116Ewin&&& WIDTH FRAME-CONDUCT tagC116Ewin&&& = 2.781tagC116Ewin&&& . . tagC116Ewin&&&"Door X" = WINDOW tagC116Ewin&&& GLASS-TYPE = "731 Door Type #1 GT" tagC116Ewin&&& = 2 Х = 7 tagC116Ewin&&& HEIGHT tagC116Ewin&&& = 3 WIDTH tagC116Ewin&&& . . tagC116Nwin&&& tagC114Nwin&&& tagC114Swin&&&"Window 45" = WINDOW tagC114Swin&&& GLASS-TYPE = "731 Window Type #1 GT" tagC114Swin&&& = 3 Х tagC114Swin&&& Y = 3 tagC114Swin&&& HEIGHT = 4 tagC114Swin&&& WIDTH = 3 tagC114Swin&&& . . tagC114Ewin&&&"EL1 East Win (G.E3.E8.W2)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "731 Window Type #1 GT" tagC114Ewin&&& FRAME-WIDTH = 0.108333tagC114Ewin&&& Х = 11.8583 tagC114Ewin&&& Y = 3.10833

tagC114Ewin&&& HEIGHT = 3.78333 tagC114Ewin&&& WIDTH = 5.78333 tagC114Ewin&&& FRAME-CONDUCT = 2.781 tagC114Ewin&&& . . tagC114Ewin&&&"EL1 East Door (G.E3.E8.D1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "731 Door Type #1 GT" tagC114Ewin&&& FRAME-WIDTH = 0.25= 7.75 tagC114Ewin&&& Х tagC114Ewin&&& Y = 0.25= 6.5 tagC114Ewin&&& HEIGHT tagC114Ewin&&& WIDTH = 2.5tagC114Ewin&&& = 3.079FRAME-CONDUCT tagC114Ewin&&& . . tagC111Swin&&& tagC110Swin&&&"Window 46" = WINDOW tagC110Swin&&& = "731 Door Type #1 GT" GLASS-TYPE tagC110Swin&&& Х = 1 tagC110Swin&&& HEIGHT = 7 tagC110Swin&&& WIDTH = 3 tagC110Swin&&& . . tagC109Ewin&&&"EL1 East Win (G.S7.E13.W2)" = WINDOW GLASS-TYPE = "731 Window Type #1 GT" tagC109Ewin&&& tagC109Ewin&&& FRAME-WIDTH = 0.108333tagC109Ewin&&& Х = 5 tagC109Ewin&&& Y = 3.10833tagC109Ewin&&& = 3.78333 HEIGHT tagC109Ewin&&& WIDTH = 5.78333 tagC109Ewin&&& FRAME-CONDUCT = 2.781 tagC109Ewin&&& . . tagC109Wwin&&&"EL1 West Win (G.S7.E11.W2)" = WINDOW tagC109Wwin&&& GLASS-TYPE = "731 Window Type #1 GT" tagC109Wwin&&& FRAME-WIDTH = 0.108333tagC109Wwin&&& Х = 6.10833Y tagC109Wwin&&& = 3.10833 tagC109Wwin&&& HEIGHT = 3.78333 tagC109Wwin&&& WIDTH = 5.78333 tagC109Wwin&&& FRAME-CONDUCT = 2.781 tagC109Wwin&&& . .

tagC109Swin&&& tagC108swin&&& tagC108Swin&&&"Window 47" = WINDOW tagC108Swin&&& GLASS-TYPE = "731 Door Type #1 GT" tagC108Swin&&& Х = 1 tagC108Swin&&& HEIGHT = 7 tagC108Swin&&& WIDTH = 3 tagC108Swin&&& . . tagC108Wwin&&&"EL1 West Win (G.WSW8.E16.W2)" = WINDOW tagC108Wwin&&& GLASS-TYPE = "731 Window Type #1 GT" tagC108Wwin&&& FRAME-WIDTH = 0.108333 tagC108Wwin&&& X = 8 tagC108Wwin&&& Y = 3.10833tagC108Wwin&&& HEIGHT = 3.78333tagC108Wwin&&& WIDTH = 5.78333 tagC108Wwin&&& FRAME-CONDUCT = 2.781 tagC108Wwin&&& . . tagC106Wwin&&&"EL1 West Win (G.W9.E17.W1)" = WINDOW GLASS-TYPE tagC106Wwin&&& = "731 Door Type #1 GT" tagC106Wwin&&& FRAME-WIDTH = 0.108333 tagC106Wwin&&& X = 2.10833 Y = 0 tagC106Wwin&&& tagC106Wwin&&& HEIGHT = 7 WIDTH tagC106Wwin&&& = 3 FRAME-CONDUCT = 2.781 tagC106Wwin&&& tagC106Wwin&&& . . tagC105Wwin&&&"EL1 West Win (G.W11.E18.W2)" = WINDOW tagC105Wwin&&& GLASS-TYPE = "731 Window Type #1 GT" tagC105Wwin&&& FRAME-WIDTH = 0.108333 tagC105Wwin&&& Х = 3 tagC105Wwin&&& Y = 3.10833tagC105Wwin&&& HEIGHT = 3.78333 tagC105Wwin&&& WIDTH = 5.78333 FRAME-CONDUCT tagC105Wwin&&& = 2.781 tagC105Wwin&&& . .

tagC104Nwin&&&

tagC104Wwin&&&

tagC101Wwin&&&"EL1 West Win (G.NW14.E22.W1)" = WINDOW tagC101Wwin&&& GLASS-TYPE = "731 Window Type #1 GT" tagC101Wwin&&& FRAME-WIDTH = 0.108333 tagC101Wwin&&& Х = 3 tagC101Wwin&&& Y = 3.10833= 3.78333 tagC101Wwin&&& HEIGHT tagC101Wwin&&& WIDTH = 2 FRAME-CONDUCT tagC101Wwin&&& = 2.781 tagC101Wwin&&& . . tagC101Nwin&&&"EL1 North Win (G.NW14.E21.W2)" = WINDOW tagC101Nwin&&& GLASS-TYPE = "731 Window Type #1 GT" FRAME-WIDTH tagC101Nwin&&& = 0.108333tagC101Nwin&&& Х = 4 = 3.10833tagC101Nwin&&& Y tagC101Nwin&&& HEIGHT = 3.78333 tagC101Nwin&&& WIDTH = 5.78333 tagC101Nwin&&& FRAME-CONDUCT = 2.781 tagC101Nwin&&& . . tagC100Nwin&&&"EL1 North Door (G.N15.E23.D1)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "731 Door Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.25= 5.5 tagC100Nwin&&& Х tagC100Nwin&&& Y = 0.25 tagC100Nwin&&& HEIGHT = 6.5 WIDTH tagC100Nwin&&& = 2.5 FRAME-CONDUCT tagC100Nwin&&& = 3.079 tagC100Nwin&&& . . tagC100Nwin&&&"EL1 North Door (G.N15.E23.D2)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "731 Door Type #1 GT" tagC100Nwin&&& FRAME-WIDTH = 0.25tagC100Nwin&&& Х = 8.5 = 0.25 tagC100Nwin&&& Y tagC100Nwin&&& = 6.5 HEIGHT tagC100Nwin&&& WIDTH = 2.5 tagC100Nwin&&& FRAME-CONDUCT = 3.079tagC100Nwin&&& . . tagC100Nwin&&&"Window 42" = WINDOW GLASS-TYPE tagC100Nwin&&& = "731 Window Type #1 GT" tagC100Nwin&&& Х = 2 tagC100Nwin&&& Y = 3 tagC100Nwin&&& HEIGHT = 4 tagC100Nwin&&& WIDTH = 2 tagC100Nwin&&& . . tagC100Nwin&&&"Window 43" = WINDOW tagC100Nwin&&& GLASS-TYPE = "731 Window Type #1 GT" = 12 tagC100Nwin&&& Х tagC100Nwin&&& Y = 3 = 4 tagC100Nwin&&& HEIGHT = 2 tagC100Nwin&&& WIDTH tagC100Nwin&&& . . tagC115Ewin&&&"EL1 East Door (G.E17.E24.D1)" = WINDOW tagC115Ewin&&& GLASS-TYPE = "731 Door Type #1 GT" tagC115Ewin&&& FRAME-WIDTH = 0.25 tagC115Ewin&&& = 5 Х = 0 tagC115Ewin&&& Y tagC115Ewin&&& HEIGHT = 7 = 3 tagC115Ewin&&& WIDTH tagC115Ewin&&& FRAME-CONDUCT = 3.079 tagC115Ewin&&& . . tagC115Ewin&&&"Window 44" = WINDOW tagC115Ewin&&& GLASS-TYPE = "731 Door Type #1 GT" tagC115Ewin&&& Х = 2 = 7 tagC115Ewin&&& HEIGHT tagC115Ewin&&& WIDTH = 3 tagC115Ewin&&& . . tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL NEXT-TO = "C100 Plnm (G.N34)" tagC100CEI&&& tagC100CEI&&& = "EL1 Ceilg Construction" CONSTRUCTION tagC100CEI&&& LOCATION = TOP tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL = "C101 Plnm (G.NW33)" tagC101CEI&&& NEXT-TO = "EL1 Ceilg Construction" tagC101CEI&&& CONSTRUCTION = TOP tagC101CEI&&& LOCATION tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL

NEXT-TO tagC102CEI&&& = "C102 Plnm (G.C35)" CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& = TOP tagC102CEI&&& LOCATION tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC103CEI&&& tagC103CEI&&& tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL NEXT-TO = "C104 Plnm (G.WNW32)" tagC104CEI&&& tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC104CEI&&& LOCATION = TOP tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL tagC105CEI&&& NEXT-TO = "C105 Plnm (G.W29)" tagC105CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC105CEI&&& LOCATION = TOP tagC105CEI&&& LOCATION = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL NEXT-TO = "C106 Plnm (G.W27)" tagC106CEI&&& tagC106CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC106CEI&&& LOCATION = TOP tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL tagC107CEI&&& NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC107CEI&&& LOCATION = TOP tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL NEXT-TO = "C108 Plnm (G.WSW26)"tagC108CEI&&& tagC108CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC108CEI&&& tagC108CEI&&& . . tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL

NEXT-TO tagC109CEI&&& = "C109 Plnm (G.S25)" CONSTRUCTION = "EL1 Ceilg Construction" tagC109CEI&&& = TOP tagC109CEI&&& LOCATION tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL tagC110CEI&&& NEXT-TO = "C110 Plnm (G.S23)" tagC110CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC110CEI&&& tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL tagC111CEI&&& NEXT-TO = "C111 Plnm (G.S22)" tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC111CEI&&& LOCATION = TOP tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL tagC112CEI&&& NEXT-TO = "C112 C113 Plnm (G.C24)" tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC112CEI&&& LOCATION = TOP tagC112CEI&&& LOCATION = TOP tagC112CEI&&& . . tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL NEXT-TO = "C114 Plnm (G.E21)" tagC114CEI&&& tagC114CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC114CEI&&& LOCATION = TOP tagC114CEI&&& . . tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL tagC115CEI&&& NEXT-TO = "C115 Plnm (G.E36)" = "EL1 Ceilg Construction" tagC115CEI&&& CONSTRUCTION tagC115CEI&&& LOCATION = TOP tagC115CEI&&& . . tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)" tagC116CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC116CEI&&& tagC116CEI&&& . .

tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL

tagC117CEI&&&	NEXT-TO	=	"C117	' Plnm	(G.NE19)"
tagC117CEI&&&	CONSTRUCTION	=	"EL1	Ceilg	Construction"
tagC117CEI&&&	LOCATION	=	TOP		
tagC117CEI&&&					

tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALLtagC118CEI&& NEXT-TO= "minifoyer Plnm (G.C30)"tagC118CEI&& CONSTRUCTION= "EL1 Ceilg Construction"tagC118CEI&& LOCATION= TOPtagC118CEI&&

I.1.10 Participant 834

tagaaa&&& tagaaa&&& tagaab&&& tagaac&&&	DRYBULB-HIGH DRYBULB-RANGE DRYBULB-HIGH ALTITUDE	= = =	95 22 28 70
tagEWALL&&&	LAYERS		= "834 EWall Cons Layers"
tagIWALL&&&	TYPE		= U-VALUE
tagIWALL&&&	U-VALUE		= 2.7
tagbb1&&&			
tagcc1&&&	PROCESS-FLOW	=	(0.0583401)
tagcc1&&&	PROCESS-SCH	=	("834 Bldg Occup Sch")
tagcc2&&&	TYPE	=	GAS
tagcc2&&&	TANK-VOLUME	=	15.7518
tagcc2&&&	CAPACITY	=	0.020994
tagcc2&&&	HIR-FPLR	=	"DW-Gas-Pilotless-HIR-fPLR"
tagcc2&&&	TANK-UA	=	0.656326
tagcc2&&&	LOCATION	=	ZONE
tagcc2&&&	ZONE-NAME	=	"EL1 WSW Perim Zn (G.WSW8)"
tagcc2&&&	DHW-LOOP	=	"DHW Plant 1 Loop (1)"
tagcc2&&&	C-ENERGY-FACTOR	=	0.590072
tagHEI&&& tagHEI&&&	FLOOR-HEIGHT SPACE-HEIGHT	=	12 10

tagC100ZTY&&&	ZONE-TYPE	=	UN	ICON	1D]	ITIC	DNE	ED		
tagC101ZTY&&&	ZONE-TYPE	=	СС)ND]	[T]	CONE	ED			
tagC102ZTY&&&	ZONE-TYPE	=	UN	ICON	ID]	TIC	ONE	ED		
tagC103ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC104ZTY&&&	ZONE-TYPE	=	СС)ND]	[T]	CONE	ED			
tagC105ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC106ZTY&&&	ZONE-TYPE	=	СС)ND]	[T]	CONE	ED			
tagC107ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC108ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC109ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC110ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC111ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC112ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC114ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC115ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC116ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC117ZTY&&&	ZONE-TYPE	=	CC)ND]	[T]	CONE	ED			
tagC118ZTY&&&	ZONE-TYPE	=	UN	ICON	ID]	TIC	ONE	ED		
tagC100PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC101PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC102PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC103PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC104PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC105PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC106PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC107PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC108PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC109PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC110PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC111PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC112PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC114PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC115PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC116PSC&&&	PEOPLE-SCHEDULE	=	"8	34	B	Ldg	00	cup	Sc	ch"
tagC117PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC118PSC&&&	PEOPLE-SCHEDULE	=	"8	34	BI	Ldg	00	cup	Sc	ch"
tagC100LSC&&&	LIGHTING-SCHEDUL	=	("83	34	Blo	lg	InsI	Lt	Sch"
tagC101LSC&&&	LIGHTING-SCHEDUL	=	("83	34	Blo	lg	InsI	Lt	Sch"
tagC102LSC&&&	LIGHTING-SCHEDUL	=	("83	34	Blo	lg	Insl	Lt	Sch"
tagC103LSC&&&	LIGHTING-SCHEDUL	=	("83	34	Blo	lg	Insl	_t	Sch"

))

))

tagC104LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC105LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC106LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC107LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC108LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC109LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC110LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC111LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC112LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In:	sLt Sch")
tagC114LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC115LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC116LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC117LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
tagC118LSC&&&	LIGHTING-SCHEDUL = ("834 Bldg In	sLt Sch")
C	-	
tagC100ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC101ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC102ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC103ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC104ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC105ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC106ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC107ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
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tagC109ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC110ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
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tagC116ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
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tagC118ESC&&&	EQUIP-SCHEDULE = ("834 Bldg Of:	fEq Sch",
tagC100ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC101ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC102ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC103ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC104ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC105ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC106ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC107ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")
tagC108ESC&&&	"834 Bldg OffEq Sch","834 B	ldg OffEq Sch")

tagC109ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC110ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC111ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC112ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC114ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC115ESC&&&	"834 Bldg	Off	Eq So	ch","834	1 Bldg	g OffEc	q Sch")
tagC116ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC117ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC118ESC&&&	"834 Bldg	Off	Eq So	ch","834	4 Bldg	g OffEc	q Sch")
tagC100ISC&&&	INF-SCHEDULE	=	"834	GndCor	Sys1	Infil	Sch"	
tagC101ISC&&&	INF-SCHEDULE	=	"834	GndCor	Sys1	Infil	Sch"	
tagC102ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC103ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC104ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC105ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC106ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC107ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC108ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC109ISC&&&	INF-SCHEDULE	=	"834	GndCor	Sys1	Infil	Sch"	
tagC110ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC111ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC112ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC114ISC&&&	INF-SCHEDULE	=	"834	GndCor	Sys1	Infil	Sch"	
tagC115ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC116ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC117ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC118ISC&&&	INF-SCHEDULE	=	"834	${\tt GndCor}$	Sys1	Infil	Sch"	
tagC100IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC101IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC102IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC103IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC104IME&&&	INF-METHOD	=	AIR-0	CHANGE				
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tagC107IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC108IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC109IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC110IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC111IME&&&	INF-METHOD	=	AIR-0	CHANGE				
tagC112IME&&&	INF-METHOD	=	AIR-0	CHANGE				
-								

tagC114IME&&&	INF-METHOD	=	AIR-CHANGE
tagC115IME&&&	INF-METHOD	=	AIR-CHANGE
tagC116IME&&&	INF-METHOD	=	AIR-CHANGE
tagC117IME&&&	INF-METHOD	=	AIR-CHANGE
tagC118IME&&&	INF-METHOD	=	AIR-CHANGE
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tagC100IFA&&&	INF-FLOW/AREA	=	0.00932323
tagC101IFA&&&	INF-FLOW/AREA	=	0.0390481
tagC102IFA&&&	INF-FLOW/AREA	=	0.00932323
tagC103IFA&&&	INF-FLOW/AREA	=	0.0390481
tagC104IFA&&&	INF-FLOW/AREA	=	0.0390481
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tagC106IFA&&&	INF-FLOW/AREA	=	0.0239175
tagC107IFA&&&	INF-FLOW/AREA	=	0.0239175
tagC108IFA&&&	INF-FLOW/AREA	=	0.0352518
tagC109IFA&&&	INF-FLOW/AREA	=	0.0352518
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tagC114IFA&&&	INF-FLOW/AREA	=	0.0715988
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tagC117IFA&&&	INF-FLOW/AREA	=	0.0575908
tagC118IFA&&&	INF-FLOW/AREA	=	0.00932323
tagC100PHL&&&	PEOPLE-HG-LAT	=	201.29
tagC101PHL&&&	PEOPLE-HG-LAT	=	201.29
tagC102PHL&&&	PEOPLE-HG-LAT	=	201.29
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tagC104PHL&&&	PEOPLE-HG-LAT	=	201.29
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tagC112PHL&&&	PEOPLE-HG-LAT	=	201.29
tagC114PHL&&&	PEOPLE-HG-LAT	=	201.29
tagC115PHL&&&	PEOPLE-HG-LAT	=	201.29
tagC116PHL&&&	PEOPLE-HG-LAT	=	201.29
tagC117PHL&&&	PEOPLE-HG-LAT	=	201.29

tagC118PHL&&&	PEOPLE-HG-LAT	=	201.29
tagC100PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC101PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC102PHS&&&	PEOPLE-HG-SENS	=	247.786
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tagC106PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC107PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC108PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC109PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC110PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC111PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC112PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC114PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC115PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC116PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC117PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC118PHS&&&	PEOPLE-HG-SENS	=	247.786
tagC100NOP&&&			
tagC101NOP&&&			
tagC102NOP&&&			
tagC103NOP&&&			
tagC104NOP&&&			
tagC105NOP&&&			
tagC106NOP&&&			
tagC107NOP&&&			
tagC108NOP&&&			
tagC109NOP&&&			
tagC110NOP&&&			
tagC111NOP&&&			
tagC112NOP&&&			
tagC114NOP&&&	NUMBER-OF-PEOPLE	=	1
tagC115NOP&&&			
tagC116NOP&&&			
tagC117NOP&&&			
tagC118NOP&&&			
tagC100IWAbbb	LIGHTING-W/ARFA	=	(1 11885)
tagC101LWAbbb	LIGHTING-W/ARFA	=	(1 11885)
CCPOILINUGGG	LIGHTING W/ AIGLA		(1.11000)

tagC102LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC103LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC104LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC105LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC106LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC107LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC108LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC109LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC110LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC111LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC112LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC114LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC115LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC116LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC117LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC118LWA&&&	LIGHTING-W/AREA	=	(1.11885)			
tagC100EWA&&&	EQUIPMENT-W/AREA	=	(0.791202.	0.	0)
tagC101EWA&&&	EQUIPMENT-W/AREA	=	(0.791202.	0.	0)
tagC102EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC103EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC104EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC105EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC106EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC107EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC108EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC109EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC110EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC111EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC112EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC114EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC115EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC116EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC117EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC118EWA&&&	EQUIPMENT-W/AREA	=	(0.791202,	0,	0)
tagC100APE&&&	AREA/PERSON	=	99	9.4313			
tagC101APE&&&	AREA/PERSON	=	99	.4313			
tagC102APE&&&	AREA/PERSON	=	99	.4313			
tagC103APE&&&	AREA/PERSON	=	99	.4313			
tagC104APE&&&	AREA/PERSON	=	99	.4313			
tagC105APE&&&	AREA/PERSON	=	99	.4313			
-							

tagC106APE&&&	AREA/PERSON	= 99.4313
tagC107APE&&&	AREA/PERSON	= 99.4313
tagC108APE&&&	AREA/PERSON	= 99.4313
tagC109APE&&&	AREA/PERSON	= 99.4313
tagC110APE&&&	AREA/PERSON	= 99.4313
tagC111APE&&&	AREA/PERSON	= 99.4313
tagC112APE&&&	AREA/PERSON	= 99.4313
tagC114APE&&&	AREA/PERSON	= 99.4313
tagC115APE&&&	AREA/PERSON	= 99.4313
tagC116APE&&&	AREA/PERSON	= 99.4313
tagC117APE&&&	AREA/PERSON	= 99.4313
tagC118APE&&&	AREA/PERSON	= 99.4313
HEAT-TEMP-SC	H = "MajSD Gn	dCor Sys1 Heat Sch"
COOL-TEMP-SC	H = "MajSD Gn	dCor Sys1 Cool Sch"
"S1 Sys1 (PSZ)	Fan Sch"	
tagC117Ewin&&&"	East Win (G.ENE5	.E17.W1)" = WINDOW
tagC117Ewin&&&	GLASS-TYPE	= "834 Window Type #2 GT"
tagC117Ewin&&&	FRAME-WIDTH	= 0.108333
tagC117Ewin&&&	Х	= 0.671551
tagC117Ewin&&&	Y	= 3.10833
tagC117Ewin&&&	HEIGHT	= 5.00333
tagC117Ewin&&&	WIDTH	= 12.6569
tagC117Ewin&&&	FRAME-CONDUCT	= 2.781
tagC117Ewin&&&	•••	
tagC117Nwin&&&"	North Win (G.ENE	5.E18.W1)" = WINDOW
tagC117Nwin&&&	GLASS-TYPE	= "834 Window Type #1 GT"
tagC117Nwin&&&	FRAME-WIDTH	= 0.108333
tagC117Nwin&&&	Х	= 0.619257
tagC117Nwin&&&	Y	= 3.10833
tagC117Nwin&&&	HEIGHT	= 5.00333
tagC117Nwin&&&	WIDTH	= 11.4616
tagC117Nwin&&&	FRAME-CONDUCT	= 2.781
tagC117Nwin&&&	• •	
tagC116Swin&&&"	South Win (G.ENE	5.E14.W1)" = WINDOW
tagC116Swin&&&	GLASS-TYPE	= "834 Window Type #2 GT"
tagC116Swin&&&	FRAME-WIDTH	= 0.108333
tagC116Swin&&&	Х	= 0.428167

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tagC116Swin&&&
                Y
                                = 3.10833
tagC116Swin&&&
                HEIGHT
                                = 5.00333
tagC116Swin&&&
                WIDTH
                                = 7.09382
                FRAME-CONDUCT
tagC116Swin&&&
                                = 2.781
tagC116Swin&&&
                . .
tagC116Ewin&&&"East Win (G.ENE5.E15.W1)" = WINDOW
                GLASS-TYPE
                                = "834 Window Type #2 GT"
tagC116Ewin&&&
tagC116Ewin&&&
               FRAME-WIDTH
                                = 0.108333
tagC116Ewin&&&
                Х
                                = 0.830462
tagC116Ewin&&&
                Y
                                = 3.10833
                HEIGHT
                                = 5.00333
tagC116Ewin&&&
tagC116Ewin&&&
                WIDTH
                                = 16.2891
tagC116Ewin&&&
                FRAME-CONDUCT
                                = 2.781
tagC116Ewin&&&
                . .
tagC116Nwin&&&"North Win (G.ENE5.E16.W1)" = WINDOW
tagC116Nwin&&&
                GLASS-TYPE
                                = "834 Window Type #1 GT"
tagC116Nwin&&&
                FRAME-WIDTH
                                = 0.108333
tagC116Nwin&&& X
                                = 0.271277
tagC116Nwin&&& Y
                                = 3.10833
tagC116Nwin&&& HEIGHT
                                = 5.00333
tagC116Nwin&&&
                WIDTH
                                = 3.50775
tagC116Nwin&&&
                                = 2.781
                FRAME-CONDUCT
tagC116Nwin&&&
                . .
tagC114Nwin&&&"North Win (G.E6.E21.W1)" = WINDOW
tagC114Nwin&&&
                GLASS-TYPE
                                = "834 Window Type #1 GT"
tagC114Nwin&&&
                FRAME-WIDTH
                                = 0.108333
tagC114Nwin&&&
                                = 0.450293
                Х
              Y
tagC114Nwin&&&
                                = 3.10833
tagC114Nwin&&&
                                = 5.00333
                HEIGHT
tagC114Nwin&&&
                WIDTH
                                = 7.59956
                FRAME-CONDUCT
tagC114Nwin&&&
                                = 2.781
tagC114Nwin&&&
                . .
tagC114Swin&&&"South Win (G.E6.E19.W1)" = WINDOW
                GLASS-TYPE
tagC114Swin&&&
                                = "834 Window Type #2 GT"
                FRAME-WIDTH
tagC114Swin&&&
                                = 0.108333
tagC114Swin&&&
                Х
                                = 0.54885
tagC114Swin&&&
                Y
                                = 3.10833
tagC114Swin&&&
                HEIGHT
                                = 5.00333
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tagC114Swin&&& WIDTH = 9.8523 FRAME-CONDUCT tagC114Swin&&& = 2.781 tagC114Swin&&& . . tagC114Ewin&&&"East Win (G.E6.E20.W1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC114Ewin&&& FRAME-WIDTH = 0.108333tagC114Ewin&&& Х = 0.832472= 3.10833tagC114Ewin&&& Y tagC114Ewin&&& = 5.00333HEIGHT tagC114Ewin&&& WIDTH = 16.3351 FRAME-CONDUCT tagC114Ewin&&& = 2.781tagC114Ewin&&& . . tagC111Swin&&&"South Win (G.SSW2.E7.W2)" = WINDOW tagC111Swin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC111Swin&&& FRAME-WIDTH = 0.108333tagC111Swin&&& Х = 2.1333Y tagC111Swin&&& = 3.10833 tagC111Swin&&& HEIGHT = 5.00333 tagC111Swin&&& WIDTH = 5.30833tagC111Swin&&& FRAME-CONDUCT = 2.781 tagC111Swin&&& . . tagC110Swin&&&"South Door (G.SSW2.E7.D1)" = DOOR CONSTRUCTION tagC110Swin&&& = "Sgl Lyr Unins Mtl Door" tagC110Swin&&& Х = 0.775tagC110Swin&&& HEIGHT = 7 = 4.45tagC110Swin&&& WIDTH tagC110Swin&&& . . tagC109Ewin&&&"East Win (G.SSW2.E6.W1)" = WINDOW tagC109Ewin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC109Ewin&&& FRAME-WIDTH = 0.108333 tagC109Ewin&&& Х = 0.108333tagC109Ewin&&& Y = 3.10833 tagC109Ewin&&& HEIGHT = 5.00333 tagC109Ewin&&& WIDTH = 1.78333tagC109Ewin&&& FRAME-CONDUCT = 2.781 tagC109Ewin&&& . . tagC109Ewin&&&"East Win (G.SSW2.E6.W2)" = WINDOW tagC109Ewin&&& GLASS-TYPE = "834 Window Type #2 GT"

```
tagC109Ewin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC109Ewin&&&
                Х
                                 = 16.1083
tagC109Ewin&&&
                Y
                                 = 3.10833
tagC109Ewin&&&
                                 = 5.00333
                HEIGHT
tagC109Ewin&&&
                WIDTH
                                 = 1.78333
tagC109Ewin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC109Ewin&&&
                 . .
tagC109Ewin&&&"East Door (G.SSW2.E6.D1)" = DOOR
                                 = "Sgl Lyr Unins Mtl Door"
tagC109Ewin&&&
                CONSTRUCTION
                                 = 3
tagC109Ewin&&&
                Х
                                 = 7
                HEIGHT
tagC109Ewin&&&
                WIDTH
                                 = 6
tagC109Ewin&&&
tagC109Ewin&&&
                 . .
tagC109Ewin&&&"East Door (G.SSW2.E6.D2)" = DOOR
tagC109Ewin&&&
                CONSTRUCTION
                                 = "Sgl Lyr Unins Mtl Door"
tagC109Ewin&&&
                Х
                                 = 9
                                 = 7
tagC109Ewin&&&
                HEIGHT
tagC109Ewin&&&
                WIDTH
                                 = 6
tagC109Ewin&&&
                 . .
tagC109Wwin&&&"West Win (G.SSW2.E4.W1)" = WINDOW
tagC109Wwin&&&
                GLASS-TYPE
                                 = "834 Window Type #2 GT"
tagC109Wwin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC109Wwin&&&
                Х
                                 = 0.834483
                                 = 3.10833
tagC109Wwin&&&
                Y
tagC109Wwin&&&
                HEIGHT
                                 = 5.00333
tagC109Wwin&&&
                WIDTH
                                 = 16.381
tagC109Wwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC109Wwin&&&
                 . .
tagC109Swin&&&"South Win (G.SSW2.E5.W1)" = WINDOW
tagC109Swin&&&
                GLASS-TYPE
                                 = "834 Window Type #2 GT"
tagC109Swin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC109Swin&&&
                Х
                                 = 0.108333
tagC109Swin&&&
                Y
                                 = 3.10833
tagC109Swin&&&
                HEIGHT
                                 = 5.00333
tagC109Swin&&&
                WIDTH
                                 = 3.78333
tagC109Swin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC109Swin&&&
                 . .
tagC109Swin&&&"South Win (G.SSW2.E5.W2)" = WINDOW
tagC109Swin&&&
                GLASS-TYPE
                                 = "834 Window Type #2 GT"
tagC109Swin&&&
                FRAME-WIDTH
                                 = 0.108333
```

```
tagC109Swin&&&
                 Х
                                  = 12.1083
tagC109Swin&&&
                Y
                                  = 3.10833
tagC109Swin&&&
                                  = 5.00333
                HEIGHT
tagC109Swin&&&
                WIDTH
                                  = 3.78333
                FRAME-CONDUCT
tagC109Swin&&&
                                  = 2.781
tagC109Swin&&&
                 . .
tagC109Swin&&&"South Door (G.SSW2.E5.D1)" = DOOR
                 CONSTRUCTION
                                 = "Sgl Lyr Unins Mtl Door"
tagC109Swin&&&
tagC109Swin&&&
                Х
                                  = 5
                                  = 7
tagC109Swin&&&
                HEIGHT
                                  = 6
tagC109Swin&&&
                 WIDTH
tagC109Swin&&&
                 . .
tagC108swin&&&"South Win (G.SSW2.E3.W1)" = WINDOW
tagC108swin&&&
                 GLASS-TYPE
                                  = "834 Window Type #2 GT"
tagC108swin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC108swin&&&
                Х
                                  = 0.22904
tagC108swin&&&
                Y
                                 = 3.10833
tagC108swin&&&
                HEIGHT
                                 = 5.00333
tagC108swin&&&
                WIDTH
                                  = 2.54234
tagC108swin&&&
                 FRAME-CONDUCT
                                 = 2.781
tagC108swin&&&
                 . .
tagC108Swin&&&"South Win (G.SSW2.E7.W1)" = WINDOW
                                  = "834 Window Type #2 GT"
tagC108Swin&&&
                 GLASS-TYPE
tagC108Swin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC108Swin&&&
                Х
                                  = 0.108333
tagC108Swin&&&
                Y
                                  = 3.10833
tagC108Swin&&&
                                  = 5.00333
                HEIGHT
tagC108Swin&&&
                 WIDTH
                                  = 5.30833
tagC108Swin&&&
                FRAME-CONDUCT
                                  = 2.781
tagC108Swin&&&
                 . .
tagC108Wwin&&&"West Win (G.SSW2.E8.W1)" = WINDOW
tagC108Wwin&&&
                 GLASS-TYPE
                                  = "834 Window Type #2 GT"
tagC108Wwin&&&
                FRAME-WIDTH
                                  = 0.108333
tagC108Wwin&&&
                Х
                                 = 0.108333
tagC108Wwin&&&
                Y
                                  = 3.10833
tagC108Wwin&&&
                                  = 5.00333
                HEIGHT
tagC108Wwin&&&
                WIDTH
                                  = 6.53345
tagC108Wwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC108Wwin&&&
                 . .
```

tagC108Wwin&&&"West Win (G.SSW2.E8.W2)" = WINDOW tagC108Wwin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC108Wwin&&& FRAME-WIDTH = 0.108333tagC108Wwin&&& Х = 14.8584 tagC108Wwin&&& Y = 3.10833tagC108Wwin&&& HEIGHT = 5.00333 tagC108Wwin&&& WIDTH = 6.53345FRAME-CONDUCT tagC108Wwin&&& = 2.781 tagC108Wwin&&& . . tagC108Wwin&&&"West Door (G.SSW2.E8.D1)" = DOOR CONSTRUCTION = "Sgl Lyr Unins Mtl Door" tagC108Wwin&&& = 7.75012tagC108Wwin&&& Х = 7 tagC108Wwin&&& HEIGHT tagC108Wwin&&& WIDTH = 6 tagC108Wwin&&& . . tagC106Wwin&&&"West Win (G.W4.E13.W1)" = WINDOW tagC106Wwin&&& GLASS-TYPE = "834 Window Type #2 GT" FRAME-WIDTH tagC106Wwin&&& = 0.108333 = 0.510652tagC106Wwin&&& X tagC106Wwin&&& Y = 3.10833 tagC106Wwin&&& HEIGHT = 5.00333 tagC106Wwin&&& WIDTH = 8.97919 tagC106Wwin&&& = 2.781 FRAME-CONDUCT tagC106Wwin&&& . . tagC105Wwin&&&"West Win 2(G.WNW3.E11.W1)" = WINDOW tagC105Wwin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC105Wwin&&& FRAME-WIDTH = 0.108333tagC105Wwin&&& Х = 0.933046Y tagC105Wwin&&& = 3.10833= 5.00333 tagC105Wwin&&& HEIGHT tagC105Wwin&&& WIDTH = 10.1172 FRAME-CONDUCT tagC105Wwin&&& = 2.781tagC105Wwin&&& . . tagC104Nwin&&&"North Win (G.WNW3.E10.W1)" = WINDOW tagC104Nwin&&& GLASS-TYPE = "834 Window Type #1 GT" FRAME-WIDTH tagC104Nwin&&& = 0.108333tagC104Nwin&&& Х = 0.229023tagC104Nwin&&& Y = 3.10833 tagC104Nwin&&& HEIGHT = 5.00333

tagC104Nwin&&& WIDTH = 2.54195tagC104Nwin&&& FRAME-CONDUCT = 2.781 tagC104Nwin&&& . . tagC104Wwin&&&"West Win (G.WNW3.E11.W1)" = WINDOW tagC104Wwin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC104Wwin&&& FRAME-WIDTH = 0.108333= 0.933046 tagC104Wwin&&& Х tagC104Wwin&&& Y = 3.10833tagC104Wwin&&& = 5.00333HEIGHT tagC104Wwin&&& WIDTH = 5.56724 tagC104Wwin&&& FRAME-CONDUCT = 2.781 tagC104Wwin&&& . . tagC101Wwin&&&"West Win (G.WNW3.E9.W1)" = WINDOW tagC101Wwin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC101Wwin&&& FRAME-WIDTH = 0.108333tagC101Wwin&&& Х = 0.510632tagC101Wwin&&& Y = 3.10833 tagC101Wwin&&& = 5.00333 HEIGHT tagC101Wwin&&& WIDTH = 8.97874 tagC101Wwin&&& FRAME-CONDUCT = 2.781 tagC101Wwin&&& . . tagC101Nwin&&&"North Win (G.WNW3.E12.W1)" = WINDOW tagC101Nwin&&& GLASS-TYPE = "834 Window Type #1 GT" tagC101Nwin&&& FRAME-WIDTH = 0.108333 tagC101Nwin&&& Х = 0.625291tagC101Nwin&&& Y = 3.10833 tagC101Nwin&&& HEIGHT = 5.00333 WIDTH tagC101Nwin&&& = 11.5995 tagC101Nwin&&& = 2.781 FRAME-CONDUCT tagC101Nwin&&& . . tagC100Nwin&&&"North Door (ML.N1.E1.D1)" = DOOR = "Sgl Lyr Unins Mtl Door" tagC100Nwin&&& CONSTRUCTION tagC100Nwin&&& = 5.20004Х tagC100Nwin&&& = 7 HEIGHT tagC100Nwin&&& = 6 WIDTH tagC100Nwin&&& . .

tagC115Ewin&&&"East Win (G.E7.E22.W1)" = WINDOW

tagC115Ewin&&& GLASS-TYPE = "834 Window Type #2 GT" tagC115Ewin&&& FRAME-WIDTH = 0.108333tagC115Ewin&&& X = 0.59352tagC115Ewin&&& Y = 3.10833 tagC115Ewin&&& HEIGHT = 5.00333tagC115Ewin&&& WIDTH = 10.8733 FRAME-CONDUCT tagC115Ewin&&& = 2.781 tagC115Ewin&&& tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL NEXT-TO = "C100 Plnm (G.N34)" tagC100CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC100CEI&&& = TOP tagC100CEI&&& LOCATION tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL = "C101 Plnm (G.NW33)" tagC101CEI&&& NEXT-TO tagC101CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC101CEI&&& tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC102CEI&&& LOCATION = TOP tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL NEXT-TO = "C103 Plnm (G.C31)" tagC103CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC103CEI&&& LOCATION = TOP tagC103CEI&&& tagC103CEI&&& . . tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL tagC104CEI&&& NEXT-TO = "C104 Plnm (G.WNW32)" tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC104CEI&&& = TOP LOCATION tagC104CEI&&& . . tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL tagC105CEI&&& NEXT-TO = "C105 Plnm (G.W29)" CONSTRUCTION tagC105CEI&&& = "EL1 Ceilg Construction"
tagC105CEI&&& LOCATION = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL tagC106CEI&&& NEXT-TO = "C106 Plnm (G.W27)" CONSTRUCTION = "EL1 Ceilg Construction" tagC106CEI&&& LOCATION tagC106CEI&&& = TOP tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&& tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC107CEI&&& LOCATION tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL tagC108CEI&&& NEXT-TO = "C108 Plnm (G.WSW26)" tagC108CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC108CEI&&& tagC108CEI&&& . . tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL NEXT-TO = "C109 Plnm (G.S25)" tagC109CEI&&& tagC109CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC109CEI&&& LOCATION = TOP tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL NEXT-TO = "C110 Plnm (G.S23)" tagC110CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC110CEI&&& LOCATION = TOP tagC110CEI&&& tagC110CEI&&& . . tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL tagC111CEI&&& NEXT-TO = "C111 Plnm (G.S22)" tagC111CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC111CEI&&& LOCATION = TOP tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL tagC112CEI&&& NEXT-TO = "C112 C113 Plnm (G.C24)" tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"

```
tagC112CEI&&&
               LOCATION
                              = TOP
tagC112CEI&&&
               . .
tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL
tagC114CEI&&&
             NEXT-TO
                        = "C114 Plnm (G.E21)"
tagC114CEI&&&
              CONSTRUCTION
                             = "EL1 Ceilg Construction"
tagC114CEI&&&
              LOCATION
                              = TOP
tagC114CEI&&&
               . .
tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL
              NEXT-TO = "C115 Plnm (G.E36)"
tagC115CEI&&&
tagC115CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
                              = TOP
tagC115CEI&&&
             LOCATION
tagC115CEI&&&
               . .
tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL
tagC116CEI&&&
                              = "C116 Plnm (G.ESE20)"
              NEXT-TO
              CONSTRUCTION = "EL1 Ceilg Construction"
tagC116CEI&&&
tagC116CEI&&&
              LOCATION
                              = TOP
tagC116CEI&&&
               . .
tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL
                              = "C117 Plnm (G.NE19)"
tagC117CEI&&&
              NEXT-TO
                              = "EL1 Ceilg Construction"
tagC117CEI&&&
              CONSTRUCTION
              LOCATION
tagC117CEI&&&
                              = TOP
tagC117CEI&&&
              . .
tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALL
tagC118CEI&&&
              NEXT-TO
                              = "minifoyer Plnm (G.C30)"
tagC118CEI&&&
              CONSTRUCTION
                              = "EL1 Ceilg Construction"
tagC118CEI&&&
              LOCATION
                              = TOP
tagC118CEI&&&
               . .
```

I.1.11 Participant 845

tagaaa&&&	DRYBULB-HIGH	=	94	1			
tagaaa&&&	DRYBULB-RANGE	=	26	5			
tagaab&&&	DRYBULB-HIGH	=	29)			
tagaac&&&	ALTITUDE	=	67	7			
tagEWALL&&&	ROUGHNESS		=	4			
tagEWALL&&&	LAYERS		=	"845	EWall	Cons	Layers"

tagIWALL&&& TYPE = U-VALUE tagIWALL&&& U-VALUE = 2.7 tagbb1&&&"EM1" = ELEC-METER tagbb1&&& = UTILITY TYPE tagbb1&&& EXTERIOR-POWER = (0.184)tagbb1&&& = ("Ext Lighting Sch") EXTERIOR-SCH tagbb1&&& . . = (0.0457055)tagcc1&&& PROCESS-FLOW = ("MajDD DHW Eqp NRes Sch") tagcc1&&& PROCESS-SCH tagcc2&&& TYPE = GAS TANK-VOLUME = 12.4145 tagcc2&&& tagcc2&&& CAPACITY = 0.0165461 = "DW-Gas-Pilotless-HIR-fPLR" = 0.517273 tagcc2&&& HIR-FPLR tagcc2&&& TANK-UA = ZONE tagcc2&&& LOCATION LUNE-NAME= "EL1 Core Zn (G.C17)"DHW-LOOP= "DHW Plant 1 Loss (f) tagcc2&&& = "DHW Plant 1 Loop (1)" tagcc2&&& C-ENERGY-FACTOR = 0.596412 tagcc2&&& tagHEI&&& FLOOR-HEIGHT = 15 tagHEI&&& SPACE-HEIGHT = 15 tagC100ZTY&&& ZONE-TYPE = CONDITIONED tagC101ZTY&&& ZONE-TYPE = CONDITIONED tagC102ZTY&&& = CONDITIONED ZONE-TYPE tagC103ZTY&&& = CONDITIONED ZONE-TYPE tagC104ZTY&&& ZONE-TYPE = CONDITIONED tagC105ZTY&&& = CONDITIONED ZONE-TYPE tagC106ZTY&&& ZONE-TYPE = CONDITIONED tagC107ZTY&&& ZONE-TYPE = CONDITIONED tagC108ZTY&&& ZONE-TYPE = CONDITIONED tagC109ZTY&&& ZONE-TYPE = CONDITIONED tagC110ZTY&&& ZONE-TYPE = CONDITIONED tagC111ZTY&&& ZONE-TYPE = CONDITIONED tagC112ZTY&&& ZONE-TYPE = CONDITIONED tagC114ZTY&&& ZONE-TYPE = CONDITIONED tagC115ZTY&&& ZONE-TYPE = CONDITIONED ZONE-TYPE = CONDITIONED tagC116ZTY&&&

tagC117ZTY&&&	ZONE-TYPE		CONDITIONED					
tagC118ZTY&&&	ZONE-TYPE	=	CON	DIT	IONED			
tagC100PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC101PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC102PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC103PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC104PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC105PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC106PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC107PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC108PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC109PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC110PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC111PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC112PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC114PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC115PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC116PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC117PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC118PSC&&&	PEOPLE-SCHEDULE	=	"84	5 B	ldg Oo	ccup S	ch"	
tagC100LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC101LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC102LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC103LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC104LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC105LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC106LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC107LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC108LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC109LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC110LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC111LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC112LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC114LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC115LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC116LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC117LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC118LSC&&&	LIGHTING-SCHEDUL	=	("	845	Bldg	InsLt	Sch")
tagC100ESC&&&	EQUIP-SCHEDULE	=	("	845	Bldg	Misc	Sch",	

tagC101ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg OffEq Sch",
tagC102ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
tagC103ESC&&&		
tagC104ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
tagC105ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg OffEq Sch",
tagC106ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
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tagC108ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
tagC109ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg OffEq Sch",
tagC110ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
tagC111ESC&&&		
tagC112ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
tagC114ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg OffEq Sch",
tagC115ESC&&&		
tagC116ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg OffEq Sch",
tagC117ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
tagC118ESC&&&	EQUIP-SCHEDULE	= ("845 Bldg Misc Sch",
tagC100ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC101ESC&&&	"845 Bldg	OffEq Sch","845 Bldg OffEq Sch")
tagC102ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC103ESC&&&		
tagC104ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC105ESC&&&	"845 Bldg	OffEq Sch","845 Bldg OffEq Sch")
tagC106ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC107ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC108ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC109ESC&&&	"845 Bldg	OffEq Sch","845 Bldg OffEq Sch")
tagC110ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC111ESC&&&		
tagC112ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC114ESC&&&	"845 Bldg	OffEq Sch","845 Bldg OffEq Sch")
tagC115ESC&&&		
tagC116ESC&&&	"845 Bldg	OffEq Sch","845 Bldg OffEq Sch")
tagC117ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC118ESC&&&	"845 Bldg	Misc Sch","845 Bldg Misc Sch")
tagC100ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC101ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC102ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) C-Inf Sch"
tagC103ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) C-Inf Sch"
tagC104ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC105ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"

tagC106ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC107ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) C-Inf Sch"
tagC108ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC109ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC110ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC111ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC112ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) C-Inf Sch"
tagC114ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC115ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC116ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC117ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) P-Inf Sch"
tagC118ISC&&&	INF-SCHEDULE	= "845 ZGO-S1 (PSZ) C-Inf Sch"
tagC100IME&&&	INF-METHOD	= AIR-CHANGE
tagC101IME&&&	INF-METHOD	= AIR-CHANGE
tagC102IME&&&	INF-METHOD	= AIR-CHANGE
tagC103IME&&&	INF-METHOD	= AIR-CHANGE
tagC104IME&&&	INF-METHOD	= AIR-CHANGE
tagC105IME&&&	INF-METHOD	= AIR-CHANGE
tagC106IME&&&	INF-METHOD	= AIR-CHANGE
tagC107IME&&&	INF-METHOD	= AIR-CHANGE
tagC108IME&&&	INF-METHOD	= AIR-CHANGE
tagC109IME&&&	INF-METHOD	= AIR-CHANGE
tagC110IME&&&	INF-METHOD	= AIR-CHANGE
tagC111IME&&&	INF-METHOD	= AIR-CHANGE
tagC112IME&&&	INF-METHOD	= AIR-CHANGE
tagC114IME&&&	INF-METHOD	= AIR-CHANGE
tagC115IME&&&	INF-METHOD	= AIR-CHANGE
tagC116IME&&&	INF-METHOD	= AIR-CHANGE
tagC117IME&&&	INF-METHOD	= AIR-CHANGE
tagC118IME&&&	INF-METHOD	= AIR-CHANGE
tagC100IFA&&&	INF-FLOW/AREA	= 0.0572864
tagC101IFA&&&	INF-FLOW/AREA	= 0.101133
tagC102IFA&&&	INF-FLOW/AREA	= 0.001
tagC103IFA&&&	INF-FLOW/AREA	= 0.001
tagC104IFA&&&	INF-FLOW/AREA	= 0.115062
tagC105IFA&&&	INF-FLOW/AREA	= 0.035625
tagC106IFA&&&	INF-FLOW/AREA	= 0.0838235
tagC107IFA&&&	INF-FLOW/AREA	= 0.001
tagC108IFA&&&	INF-FLOW/AREA	= 0.0500923
tagC109IFA&&&	INF-FLOW/AREA	= 0.107597

tagC110IFA&&&	INF-FLOW/AREA	= 0.0966397
tagC111IFA&&&	INF-FLOW/AREA	= 0.0343173
tagC112IFA&&&	INF-FLOW/AREA	= 0.001
tagC114IFA&&&	INF-FLOW/AREA	= 0.110013
tagC115IFA&&&	INF-FLOW/AREA	= 0.0343173
tagC116IFA&&&	INF-FLOW/AREA	= 0.0932363
tagC117IFA&&&	INF-FLOW/AREA	= 0.0864205
tagC118IFA&&&	INF-FLOW/AREA	= 0.001
tagC100PHL&&&	PEOPLE-HG-LAT	= 250
tagC101PHL&&&	PEOPLE-HG-LAT	= 200
tagC102PHL&&&	PEOPLE-HG-LAT	= 250
tagC103PHL&&&	PEOPLE-HG-LAT	= 475
tagC104PHL&&&	PEOPLE-HG-LAT	= 250
tagC105PHL&&&	PEOPLE-HG-LAT	= 200
tagC106PHL&&&	PEOPLE-HG-LAT	= 250
tagC107PHL&&&	PEOPLE-HG-LAT	= 250
tagC108PHL&&&	PEOPLE-HG-LAT	= 275
tagC109PHL&&&	PEOPLE-HG-LAT	= 200
tagC110PHL&&&	PEOPLE-HG-LAT	= 250
tagC111PHL&&&	PEOPLE-HG-LAT	= 250
tagC112PHL&&&	PEOPLE-HG-LAT	= 250
tagC114PHL&&&	PEOPLE-HG-LAT	= 200
tagC115PHL&&&	PEOPLE-HG-LAT	= 250
tagC116PHL&&&	PEOPLE-HG-LAT	= 200
tagC117PHL&&&	PEOPLE-HG-LAT	= 155
tagC118PHL&&&	PEOPLE-HG-LAT	= 250
tagC100PHS&&&	PEOPLE-HG-SENS	= 250
tagC101PHS&&&	PEOPLE-HG-SENS	= 250
tagC102PHS&&&	PEOPLE-HG-SENS	= 250
tagC103PHS&&&	PEOPLE-HG-SENS	= 275
tagC104PHS&&&	PEOPLE-HG-SENS	= 250
tagC105PHS&&&	PEOPLE-HG-SENS	= 250
tagC106PHS&&&	PEOPLE-HG-SENS	= 250
tagC107PHS&&&	PEOPLE-HG-SENS	= 250
tagC108PHS&&&	PEOPLE-HG-SENS	= 275
tagC109PHS&&&	PEOPLE-HG-SENS	= 250
tagC110PHS&&&	PEOPLE-HG-SENS	= 250
tagC111PHS&&&	PEOPLE-HG-SENS	= 250
tagC112PHS&&&	PEOPLE-HG-SENS	= 250
tagC114PHS&&&	PEOPLE-HG-SENS	= 250

tagC115PHS&&&	PEOPLE-HG-SENS	=	25	50	
tagC116PHS&&&	PEOPLE-HG-SENS	=	25	50	
tagC117PHS&&&	PEOPLE-HG-SENS	=	24	45	
tagC118PHS&&&	PEOPLE-HG-SENS	=	25	50	
tagC100NOP&&&					
tagC101NOP&&&					
tagC102NOP&&&					
tagC103NOP&&&					
tagC104NOP&&&					
tagC105NOP&&&					
tagC106NOP&&&					
tagC107NOP&&&					
tagC108NOP&&&					
tagC109NOP&&&					
tagC110NOP&&&					
tagC111NOP&&&					
tagC112NOP&&&					
tagC114NOP&&&					
tagC115NOP&&&					
tagC116NOP&&&					
tagC117NOP&&&					
tagC118NOP&&&					
tagC100LWA&&&	LIGHTING-W/AREA	=	(0)	
tagC101LWA&&&	LIGHTING-W/AREA	=	(0.959010054)
tagC102LWA&&&	LIGHTING-W/AREA	=	(0)	
tagC103LWA&&&	LIGHTING-W/AREA	=	(0.836707152)
tagC104LWA&&&	LIGHTING-W/AREA	=	(0.585009141)
tagC105LWA&&&	LIGHTING-W/AREA	=	(1.006355932)
tagC106LWA&&&	LIGHTING-W/AREA	=	(8.481532148)
tagC107LWA&&&	LIGHTING-W/AREA	=	(1.253791709)
tagC108LWA&&&	LIGHTING-W/AREA	=	(1.073076923)
tagC109LWA&&&	LIGHTING-W/AREA	=	(1.317614424)
tagC110LWA&&&	LIGHTING-W/AREA	=	(0.867208672)
tagC111LWA&&&	LIGHTING-W/AREA	=	(0.844900422)
tagC112LWA&&&	LIGHTING-W/AREA	=	(0.500390930)
tagC114LWA&&&	LIGHTING-W/AREA	=	(1.003167899)
tagC115LWA&&&	LIGHTING-W/AREA	=	(0.844900422)
tagC116LWA&&&	LIGHTING-W/AREA	=	(1.039387309)
tagC117LWA&&&	LIGHTING-W/AREA	=	(1.093210587)
tagC118LWA&&&	LIGHTING-W/AREA	=	(0)	

		-(0 E 0 0)
	EQUIPMENT W/AREA	-(0.5, 0, 0)
	EQUIPMENI-W/AREA	=(0.75, 0, 0)
tagC102EWA&&&	EQUIPMENI-W/AREA	=(0.5, 0, 0)
tagC103EWA&&&		
tagC104EWA&&&	EQUIPMENI-W/AREA	=(0, 0, 0)
tagC105EWA&&&	EQUIPMENT-W/AREA	=(0.75, 0, 0)
tagC106EWA&&&	EQUIPMENT-W/AREA	=(0, 0, 0)
tagC107EWA&&&	EQUIPMENT-W/AREA	= (3, 0, 0)
tagC108EWA&&&	EQUIPMENT-W/AREA	=(0.83, 0, 0)
tagC109EWA&&&	EQUIPMENT-W/AREA	= (0.75, 0, 0)
tagC110EWA&&&	EQUIPMENT-W/AREA	= (0, 0, 0)
tagC111EWA&&&		
tagC112EWA&&&	EQUIPMENT-W/AREA	= (0, 0, 0)
tagC114EWA&&&	EQUIPMENT-W/AREA	= (0.75, 0, 0)
tagC115EWA&&&		
tagC116EWA&&&	EQUIPMENT-W/AREA	= (0.75, 0, 0)
tagC117EWA&&&	EQUIPMENT-W/AREA	= (1, 0, 0)
tagC118EWA&&&	EQUIPMENT-W/AREA	= (0.5, 0, 0)
tagC100APE&&&	AREA/PERSON	= 100
tagC101APE&&&	AREA/PERSON	= 150
tagC102APE&&&	AREA/PERSON	= 100
tagC103APE&&&	AREA/PERSON	= 500
tagC104APE&&&	AREA/PERSON	= 500
tagC105APE&&&	AREA/PERSON	= 150
tagC106APE&&&	AREA/PERSON	= 2000
tagC107APE&&&	AREA/PERSON	= 2000
tagC108APE&&&	AREA/PERSON	= 50
tagC109APE&&&	AREA/PERSON	= 150
tagC110APE&&&	AREA/PERSON	= 2000
tagC111APE&&&	AREA/PERSON	= 1000
tagC112APE&&&	AREA/PERSON	= 500
tagC114APE&&&	AREA/PERSON	= 150
tagC115APE&&&	AREA/PERSON	= 1000
tagC116APE&&&	AREA/PERSON	= 150
tagC117APE&&&	AREA/PERSON	= 26
tagC118APE&&&	AREA/PERSON	= 100
		100
HEAT-TEMP-SCF	I = "MaiDD Svs1	l (PSZ) Heat Sch"
COOL-TEMP-SCH	I = "MaiDD Svs1	(PSZ) Cool Sch"
"S1 Sys1 (PS7) F	'an Sch"	. (192) 0001 001
ST DyST (102) I		

tagC117Ewin&&&"EL1 East Win (G.NE4.E12.W1)" = WINDOW tagC117Ewin&&& GLASS-TYPE = "845 Double Low e" tagC117Ewin&&& FRAME-WIDTH = 0.108333 tagC117Ewin&&& X = 4.10833tagC117Ewin&&& Y = 6.10833 tagC117Ewin&&& HEIGHT = 3.38333 tagC117Ewin&&& WIDTH = 6.03333 tagC117Ewin&&& = 2.781 FRAME-CONDUCT tagC117Ewin&&& . . tagC117Nwin&&&"EL1 North Win (G.NE4.E11.W1)" = WINDOW = "845 Double Low e" tagC117Nwin&&& GLASS-TYPE tagC117Nwin&&& FRAME-WIDTH = 0.108333 tagC117Nwin&&& Х = 3.10833 tagC117Nwin&&& Y = 6.10833tagC117Nwin&&& HEIGHT = 3.38333 tagC117Nwin&&& WIDTH = 6.03333 FRAME-CONDUCT tagC117Nwin&&& = 2.781 tagC117Nwin&&& . . tagC116Swin&&& tagC116Ewin&&&"EL1 East Win (G.ESE1.E3.W1)" = WINDOW tagC116Ewin&&& GLASS-TYPE = "845 Double Low e" tagC116Ewin&&& FRAME-WIDTH = 0.108333tagC116Ewin&&& X = 6.10833 tagC116Ewin&&& = 6.10833 Y tagC116Ewin&&& HEIGHT = 3.38333 tagC116Ewin&&& WIDTH = 6.03333 tagC116Ewin&&& FRAME-CONDUCT = 2.781tagC116Ewin&&& . . tagC116Nwin&&& tagC114Nwin&&& tagC114Swin&&&"EL1 South Win (G.E2.E5.W1)" = WINDOW tagC114Swin&&& GLASS-TYPE = "845 Double Low e" tagC114Swin&&& FRAME-WIDTH = 0.108333 tagC114Swin&&& Х = 4.10833

tagC114Swin&&& Y = 6.10833 tagC114Swin&&& HEIGHT = 3.38333 tagC114Swin&&& WIDTH = 2.78333 tagC114Swin&&& FRAME-CONDUCT = 2.781 tagC114Swin&&& . . tagC114Ewin&&&"EL1 East Win (G.E2.E6.W1)" = WINDOW tagC114Ewin&&& GLASS-TYPE = "845 Double Low e" FRAME-WIDTH tagC114Ewin&&& = 0.108333tagC114Ewin&&& Х = 6.10833 tagC114Ewin&&& Y = 6.10833 tagC114Ewin&&& HEIGHT = 3.38333 tagC114Ewin&&& WIDTH = 6.03333 tagC114Ewin&&& FRAME-CONDUCT = 2.781 tagC114Ewin&&& . . tagC111Swin&&& tagC110Swin&&& tagC109Ewin&&&"EL2 East Win (G.N1.E4.W1)" = WINDOW tagC109Ewin&&& GLASS-TYPE = "845 Double Low e" tagC109Ewin&&& FRAME-WIDTH = 0.108333 tagC109Ewin&&& Х = 6.10833 tagC109Ewin&&& Y = 6.10833 HEIGHT tagC109Ewin&&& = 3.38333 tagC109Ewin&&& WIDTH = 6.03333 tagC109Ewin&&& FRAME-CONDUCT = 2.781 tagC109Ewin&&& . . tagC109Wwin&&&"EL2 West Win (G.N1.E2.W1)" = WINDOW tagC109Wwin&&& = "845 Double Low e" GLASS-TYPE tagC109Wwin&&& FRAME-WIDTH = 0.108333 tagC109Wwin&&& Х = 6.10833 tagC109Wwin&&& Y = 6.10833 tagC109Wwin&&& HEIGHT = 3.38333 tagC109Wwin&&& WIDTH = 6.03333 tagC109Wwin&&& = 2.781 FRAME-CONDUCT tagC109Wwin&&& . . tagC109Swin&&& tagC108swin&&& tagC108Swin&&&

tagC108Wwin&&&"EL1 West Win (G.SW15.E34.W1)" = WINDOW tagC108Wwin&&& GLASS-TYPE = "845 Double Low e" tagC108Wwin&&& FRAME-WIDTH = 0.108333tagC108Wwin&&& X = 8.10833 tagC108Wwin&&& Y = 6.10833 tagC108Wwin&&& HEIGHT = 3.38333WIDTH tagC108Wwin&&& = 6.03333 tagC108Wwin&&& = 2.781 FRAME-CONDUCT tagC108Wwin&&& . . tagC106Wwin&&& tagC105Wwin&&&"EL1 West Win (G.W9.E23.W1)" = WINDOW = "845 Double Low e" tagC105Wwin&&& GLASS-TYPE tagC105Wwin&&& FRAME-WIDTH = 0.108333 tagC105Wwin&&& Х = 3.10833 tagC105Wwin&&& Y = 6.10833tagC105Wwin&&& HEIGHT = 3.38333 tagC105Wwin&&& = 6.03333 WIDTH tagC105Wwin&&& FRAME-CONDUCT = 2.781 tagC105Wwin&&& . . tagC104Nwin&&& tagC104Wwin&&& tagC101Wwin&&&"EL1 West Win (G.NW7.E20.W1)" = WINDOW tagC101Wwin&&& GLASS-TYPE = "845 Double Low e" tagC101Wwin&&& FRAME-WIDTH = 0.108333 tagC101Wwin&&& X = 3.60833tagC101Wwin&&& Y = 6.10833tagC101Wwin&&& HEIGHT = 3.38333 tagC101Wwin&&& WIDTH = 2.78333 tagC101Wwin&&& FRAME-CONDUCT = 2.781 tagC101Wwin&&& . . tagC101Nwin&&&"EL1 North Win (G.NW7.E19.W1)" = WINDOW tagC101Nwin&&& GLASS-TYPE = "845 Double Low e" FRAME-WIDTH tagC101Nwin&&& = 0.108333tagC101Nwin&&& X = 4.10833 tagC101Nwin&&& Y = 6.10833 tagC101Nwin&&& HEIGHT = 3.38333

tagC101Nwin&&& WIDTH = 6.03333 tagC101Nwin&&& FRAME-CONDUCT = 2.781 tagC101Nwin&&& . . tagC100Nwin&&&"EL1 North Win (G.N3.E9.W1)" = WINDOW tagC100Nwin&&& GLASS-TYPE = "845 Double Low e" tagC100Nwin&&& FRAME-WIDTH = 0.108333tagC100Nwin&&& X = 5.10833 = 6.10833 tagC100Nwin&&& Y tagC100Nwin&&& HEIGHT = 3.38333 = 5.78333 tagC100Nwin&&& WIDTH tagC100Nwin&&& FRAME-CONDUCT = 2.781 tagC100Nwin&&& . . tagC115Ewin&&&"EL1 East Win (G.ESE12.E29.W1)" = WINDOW GLASS-TYPE = "845 Double Low e" tagC115Ewin&&& FRAME-WIDTH tagC115Ewin&&& = 0.108333 tagC115Ewin&&& X = 4.60833tagC115Ewin&&& Y = 6.10833 tagC115Ewin&&& HEIGHT = 3.38333 tagC115Ewin&&& WIDTH = 2.78333 tagC115Ewin&&& FRAME-CONDUCT = 2.781tagC115Ewin&&& . . tagC100CEI&&&"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL tagC100CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC100CEI&&& LOCATION = TOP tagC100CEI&&& . . tagC101CEI&&&"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC101CEI&&& tagC101CEI&&& LOCATION = TOP tagC101CEI&&& . . tagC102CEI&&&"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC102CEI&&& = TOP tagC102CEI&&& LOCATION tagC102CEI&&& . . tagC103CEI&&&"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL tagC103CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC103CEI&&& LOCATION = TOP

tagC103CEI&&& . . tagC104CEI&&&"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC104CEI&&& tagC104CEI&&& LOCATION = TOP tagC104CEI&&& . . tagC105CEI&&&"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL tagC105CEI&&& CONSTRUCTION = "EL1 Roof Construction"
tagC105CEI&&& LOCATION = TOP tagC105CEI&&& ... tagC106CEI&&&"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL tagC106CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC106CEI&&& LOCATION = TOP tagC106CEI&&& . . tagC107CEI&&&"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL tagC107CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC107CEI&&& LOCATION = TOP tagC107CEI&&& . . tagC108CEI&&&"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL tagC108CEI&&& CONSTRUCTION = "EL1 Roof Construction" = TOP tagC108CEI&&& LOCATION tagC108CEI&&& .. tagC109CEI&&&"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL tagC109CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC109CEI&&& LOCATION = TOP tagC109CEI&&& . . tagC110CEI&&&"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC110CEI&&& = TOP tagC110CEI&&& LOCATION tagC110CEI&&& .. tagC111CEI&&&"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC111CEI&&& tagC111CEI&&& LOCATION = TOP tagC111CEI&&& . .

tagC112CEI&&&"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL tagC112CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC112CEI&&& LOCATION = TOP tagC112CEI&&& ... tagC114CEI&&&"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC114CEI&&& = TOP tagC114CEI&&& LOCATION tagC114CEI&&& . . tagC115CEI&&&"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL tagC115CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC115CEI&&& LOCATION = TOP tagC115CEI&&& . . tagC116CEI&&&"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL CONSTRUCTION = "EL1 Roof Construction" tagC116CEI&&& tagC116CEI&&& LOCATION = TOP tagC116CEI&&& . . tagC117CEI&&&"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL tagC117CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC117CEI&&& LOCATION = TOP tagC117CEI&&& . . tagC118CEI&&&"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL tagC118CEI&&& CONSTRUCTION = "EL1 Roof Construction" tagC118CEI&&& LOCATION = TOP tagC118CEI&&& . .

I.1.12 Participant 913

tagaaa&&&	DRYBULB-HIGH	= 95
tagaaa&&&	DRYBULB-RANGE	= 22
tagaab&&&	DRYBULB-HIGH	= 28
tagaac&&&	ALTITUDE	= 70
tagEWALL&&&	ROUGHNESS	= 4
tagEWALL&&&	LAYERS	= "913 EWall Cons Layers"
tagIWALL&&&	TYPE	= LAYERS
tagIWALL&&&	LAYERS	= "913 IWall Cons Layers"

tagbb1&&&

tagcc1&&&	PROCESS-FLOW	= (0.0392849)
tagcc1&&&	PROCESS-SCH	= ("913 Bldg Occup Sch")
tagcc2&&&	TYPE	= GAS
tagcc2&&&	TANK-VOLUME	= 10.6069
tagcc2&&&	CAPACITY	= 0.0141369
tagcc2&&&	HIR-FPLR	= "DW-Gas-Pilotless-HIR-fPLR"
tagcc2&&&	TANK-UA	= 0.441955
tagcc2&&&	LOCATION	= ZONE
tagcc2&&&	ZONE-NAME	= "EL1 Core Zn (G.C17)"
tagcc2&&&	DHW-LOOP	= "DHW Plant 1 Loop (1)"
tagcc2&&&	C-ENERGY-FACTOR	= 0.599847
tagHEI&&&	FLOOR-HEIGHT	= 12
tagHEI&&&	SPACE-HEIGHT	= 9
tagC100ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC101ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC102ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC103ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC104ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC105ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC106ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC107ZTY&8	t& ZONE-TYPE	= CONDITIONED
tagC108ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC109ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC110ZTY&8	t& ZONE-TYPE	= UNCONDITIONED
tagC111ZTY&8	t& ZONE-TYPE	= CONDITIONED
tagC112ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC114ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC115ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC116ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC117ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC118ZTY&&	t& ZONE-TYPE	= CONDITIONED
tagC100PSC&&	k& PEOPLE-SCHED	ULE = "913 Bldg Occup Sch"
tagC101PSC&&	k& PEOPLE-SCHED	ULE = "913 Bldg Occup Sch"
tagC102PSC&&	k& PEOPLE-SCHED	ULE = "913 Bldg Occup Sch"
tagC103PSC&&	k& PEOPLE-SCHED	ULE = "913 Bldg Occup Sch"

tagC104PSC&&&	PEOPLE-SCHEDULE	=	۳g	913 I	3ldg (Ccup	Sc	ch"		
tagC105PSC&&&	PEOPLE-SCHEDULE	=	۳g	913 I	3ldg (Ccup	Sc	ch"		
tagC106PSC&&&	PEOPLE-SCHEDULE	=	"g	913 I	3ldg (Jccup	Sc	ch"		
tagC107PSC&&&	PEOPLE-SCHEDULE	=	"g	913 I	Bldg (Jccup	Sc	ch"		
tagC108PSC&&&	PEOPLE-SCHEDULE	=	"g	913 I	3ldg (Jccup	Sc	ch"		
tagC109PSC&&&	PEOPLE-SCHEDULE	=	۳g	913 I	3ldg (Ccup	Sc	ch"		
tagC110PSC&&&	PEOPLE-SCHEDULE	=	۳ç	913 I	Bldg (Ccup	Sc	ch"		
tagC111PSC&&&	PEOPLE-SCHEDULE	=	"S	913 I	3ldg (Jccup	Sc	ch"		
tagC112PSC&&&	PEOPLE-SCHEDULE	=	"S	913 I	3ldg (Jccup	Sc	ch"		
tagC114PSC&&&	PEOPLE-SCHEDULE	=	"S	913 I	3ldg (Jccup	Sc	ch"		
tagC115PSC&&&	PEOPLE-SCHEDULE	=	"g	913 I	3ldg (Jccup	Sc	ch"		
tagC116PSC&&&	PEOPLE-SCHEDULE	=	"S	913 I	3ldg (Jccup	Sc	ch"		
tagC117PSC&&&	PEOPLE-SCHEDULE	=	"g	913 I	Bldg (Jccup	Sc	ch"		
tagC118PSC&&&	PEOPLE-SCHEDULE	=	٣ç	913 I	3ldg (Ccup	So	ch"		
tagC100LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Prm	Sch")
tagC101LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Prm	Sch")
tagC102LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Cor	Sch")
tagC103LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Cor	Sch")
tagC104LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ŀt	Prm	Sch")
tagC105LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Prm	Sch")
tagC106LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Prm	Sch")
tagC107LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Cor	Sch")
tagC108LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Prm	Sch")
tagC109LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Prm	Sch")
tagC110LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Prm	Sch")
tagC111LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Prm	Sch")
tagC112LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Cor	Sch")
tagC114LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Prm	Sch")
tagC115LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Prm	Sch")
tagC116LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Prm	Sch")
tagC117LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Ĺt	Prm	Sch")
tagC118LSC&&&	LIGHTING-SCHEDUL	=	("913	3 Bldg	g Insl	Lt	Cor	Sch")
tagC100ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldø	g OffF	Ξa	Prm	Sch"	
tagC101ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldg	g OffE	Ξa	Prm	Sch"	
tagC102ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldg	g OffI	Ξa	Cor	Sch"	,
tagC103ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldg	g OffI	Ξq	Cor	Sch"	,
tagC104ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldg	y OffE	Ξa	Prm	Sch"	,
tagC105ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldg	y offH	Ξq	Prm	Sch"	,
tagC106ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldg	z OffH	Ξq	Prm	Sch"	,
tagC107ESC&&&	EQUIP-SCHEDULE	=	("913	3 Bldø	g OffH	Ξq	Cor	Sch"	,

tagC108ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC109ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC110ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC111ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC112ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Cor Sch",
tagC114ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC115ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC116ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC117ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Prm Sch",
tagC118ESC&&&	EQUIP-SCHEDULE	= ("913 Bldg OffEq Cor Sch",
tagC100ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC101ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC102ESC&&&	"913 Bldg	OffEq Cor Sch","913 Bldg OffEq Cor Sch")
tagC103ESC&&&	"913 Bldg	OffEq Cor Sch","913 Bldg OffEq Cor Sch")
tagC104ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC105ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC106ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC107ESC&&&	"913 Bldg	OffEq Cor Sch","913 Bldg OffEq Cor Sch")
tagC108ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC109ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC110ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC111ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC112ESC&&&	"913 Bldg	OffEq Cor Sch","913 Bldg OffEq Cor Sch")
tagC114ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC115ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC116ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC117ESC&&&	"913 Bldg	OffEq Prm Sch", "913 Bldg OffEq Prm Sch")
tagC118ESC&&&	"913 Bldg	OffEq Cor Sch","913 Bldg OffEq Cor Sch")
$+ 2 \alpha C 1 0 0 T S C b b b$	TNE_COUEDIII E	- "012 CodCor Sug1 Infil Sch"
tagC10015C&&&	INF-SCHEDULE	= "913 GndCor Syst Infil Sch"
tagC10115C&&&	INF SCHEDULE	= 913 GudCor Syst Infil Sch
	INF SCHEDULE	= 913 GhdCor Syst Infil Sch
tagC10313C&&&	INF-SCHEDULE	= 913 GudCor Syst Intil Sch = "913 GudCor Syst Infil Sch"
tagC10415C&&&	INF SCHEDULE	= 913 GudCor Syst Infil Sch
tagC106ISC&&&	INF-SCHEDULE	= "913 GndCor Syst Infil Sch"
tagC10015C&&&	INF SCHEDULE	= 913 GudCor Syst Infil Sch
tagoiorisoaaa tagC108ISChhh	INF-SCHEDULE	= "913 GndCor Syst Infil Sch"
	INF-SCHEDULE	= "913 CndCor Syst Infil Sch"
tago103180aaa	INF-SCHEDULE	= "913 GndCor Syst Infil Sch"
tago1111TCChph	INF-SCHEDULE	= "913 GndCor Syst Infil Sch"
tagoiiiiooaaa tagoiiiiooaaa		= "013 CndCor Syst Infil Sch"
LABOTIZIDOWWW		and and a start an

tagC114ISC&&&	INF-SCHEDULE	=	"913 GndCor Sys1 Infil Sch"
tagC115ISC&&&	INF-SCHEDULE	=	"913 GndCor Sys1 Infil Sch"
tagC116ISC&&&	INF-SCHEDULE	=	"913 GndCor Sys1 Infil Sch"
tagC117ISC&&&	INF-SCHEDULE	=	"913 GndCor Sys1 Infil Sch"
tagC118ISC&&&	INF-SCHEDULE	=	"913 GndCor Sys1 Infil Sch"
tagC100IME&&&	INF-METHOD	=	AIR-CHANGE
tagC101IME&&&	INF-METHOD	=	AIR-CHANGE
tagC102IME&&&	INF-METHOD	=	AIR-CHANGE
tagC103IME&&&	INF-METHOD	=	AIR-CHANGE
tagC104IME&&&	INF-METHOD	=	AIR-CHANGE
tagC105IME&&&	INF-METHOD	=	AIR-CHANGE
tagC106IME&&&	INF-METHOD	=	AIR-CHANGE
tagC107IME&&&	INF-METHOD	=	AIR-CHANGE
tagC108IME&&&	INF-METHOD	=	AIR-CHANGE
tagC109IME&&&	INF-METHOD	=	AIR-CHANGE
tagC110IME&&&	INF-METHOD	=	AIR-CHANGE
tagC111IME&&&	INF-METHOD	=	AIR-CHANGE
tagC112IME&&&	INF-METHOD	=	AIR-CHANGE
tagC114IME&&&	INF-METHOD	=	AIR-CHANGE
tagC115IME&&&	INF-METHOD	=	AIR-CHANGE
tagC116IME&&&	INF-METHOD	=	AIR-CHANGE
tagC117IME&&&	INF-METHOD	=	AIR-CHANGE
tagC118IME&&&	INF-METHOD	=	AIR-CHANGE
tagC100IFA&&&	INF-FLOW/AREA	=	0.035878
tagC101IFA&&&	INF-FLOW/AREA	=	0.063969
tagC102IFA&&&	INF-FLOW/AREA	=	0.001
tagC103IFA&&&	INF-FLOW/AREA	=	0.001
tagC104IFA&&&	INF-FLOW/AREA	=	0.062012
tagC105IFA&&&	INF-FLOW/AREA	=	0.023415
tagC106IFA&&&	INF-FLOW/AREA	=	0.05561
tagC107IFA&&&	INF-FLOW/AREA	=	0.001
tagC108IFA&&&	INF-FLOW/AREA	=	0.017085
tagC109IFA&&&	INF-FLOW/AREA	=	0.063578
tagC110IFA&&&	INF-FLOW/AREA	=	0.059221
tagC111IFA&&&	INF-FLOW/AREA	=	0.059156
tagC112IFA&&&	INF-FLOW/AREA	=	0.001
tagC114IFA&&&	INF-FLOW/AREA	=	0.069635
tagC115IFA&&&	INF-FLOW/AREA	=	0.016724
tagC116IFA&&&	INF-FLOW/AREA	=	0.050031
tagC117IFA&&&	INF-FLOW/AREA	=	0.054736

tagC118IFA&&&	INF-FLOW/AREA	=	0.001
tagC100PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC101PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC102PHL&&&	PEOPLE-HG-LAT	=	205.17
tagC103PHL&&&	PEOPLE-HG-LAT	=	205.17
tagC104PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC105PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC106PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC107PHL&&&	PEOPLE-HG-LAT	=	205.17
tagC108PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC109PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC110PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC111PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC112PHL&&&	PEOPLE-HG-LAT	=	205.17
tagC114PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC115PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC116PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC117PHL&&&	PEOPLE-HG-LAT	=	200.00
tagC118PHL&&&	PEOPLE-HG-LAT	=	205.17
tagC100PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC101PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC102PHS&&&	PEOPLE-HG-SENS	=	248.38
tagC103PHS&&&	PEOPLE-HG-SENS	=	248.38
tagC104PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC105PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC106PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC107PHS&&&	PEOPLE-HG-SENS	=	248.38
tagC108PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC109PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC110PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC111PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC112PHS&&&	PEOPLE-HG-SENS	=	248.379
tagC114PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC115PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC116PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC117PHS&&&	PEOPLE-HG-SENS	=	250.00
tagC118PHS&&&	PEOPLE-HG-SENS	=	248.38

tagC100NOP&&& tagC101NOP&&& tagC102NOP&&& tagC103NOP&&& tagC104NOP&&& tagC105NOP&&& tagC106NOP&&& tagC107NOP&&& tagC108NOP&&& tagC109NOP&&& tagC110NOP&&& tagC111NOP&&& tagC112NOP&&& tagC114NOP&&& tagC115NOP&&& tagC116NOP&&& tagC117NOP&&& tagC118NOP&&& tagC100LWA&&& LIGHTING-W/AREA = (0.7)tagC101LWA&&& LIGHTING-W/AREA = (1)tagC102LWA&&& LIGHTING-W/AREA = (0.7)tagC103LWA&&& LIGHTING-W/AREA = (1)tagC104LWA&&& LIGHTING-W/AREA = (1)LIGHTING-W/AREA = (1)tagC105LWA&&& LIGHTING-W/AREA = (0.6)tagC106LWA&&& LIGHTING-W/AREA = (0.6)tagC107LWA&&& LIGHTING-W/AREA = (1.1)tagC108LWA&&& tagC109LWA&&& LIGHTING-W/AREA = (1)LIGHTING-W/AREA = (0)tagC110LWA&&& tagC111LWA&&& LIGHTING-W/AREA = (1)tagC112LWA&&& LIGHTING-W/AREA = (1)LIGHTING-W/AREA = (1)tagC114LWA&&& tagC115LWA&&& LIGHTING-W/AREA = (0.84)tagC116LWA&&& LIGHTING-W/AREA = (1)tagC117LWA&&& LIGHTING-W/AREA = (1)tagC118LWA&&& LIGHTING-W/AREA = (0.7)tagC100EWA&&& EQUIPMENT-W/AREA = (1.5, 0, 0)tagC101EWA&&& EQUIPMENT-W/AREA = (1.5, 0, 0)EQUIPMENT-W/AREA = (1.05379, 0, 0)tagC102EWA&&& tagC103EWA&&& EQUIPMENT-W/AREA = (1.05379, 0, 0)tagC104EWA&&& EQUIPMENT-W/AREA = (1.5, 0, 0)tagC105EWA&&& EQUIPMENT-W/AREA = (1.5, 0, 0)

tagC106EWA&&&	EQUIPMENT-W/AREA	=	(1.5,0,0)
tagC107EWA&&&	EQUIPMENT-W/AREA	=	(1.05379, 0, 0)
tagC108EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 0)
tagC109EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 0)
tagC110EWA&&&	EQUIPMENT-W/AREA	=	(0,0,0)
tagC111EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 0)
tagC112EWA&&&	EQUIPMENT-W/AREA	=	(1.05379, 0, 0)
tagC114EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 0)
tagC115EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 0)
tagC116EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 0)
tagC117EWA&&&	EQUIPMENT-W/AREA	=	(1.5, 0, 0)
tagC118EWA&&&	EQUIPMENT-W/AREA	=	(1.05379, 0, 0)
tagC100APE&&&	AREA/PERSON	=	225.00
tagC101APE&&&	AREA/PERSON	=	225.00
tagC102APE&&&	AREA/PERSON	=	118.27
tagC103APE&&&	AREA/PERSON	=	118.27
tagC104APE&&&	AREA/PERSON	=	225.00
tagC105APE&&&	AREA/PERSON	=	225.00
tagC106APE&&&	AREA/PERSON	=	225.00
tagC107APE&&&	AREA/PERSON	=	118.27
tagC108APE&&&	AREA/PERSON	=	225.00
tagC109APE&&&	AREA/PERSON	=	225.00
tagC110APE&&&	AREA/PERSON	=	225.00
tagC111APE&&&	AREA/PERSON	=	225.00
tagC112APE&&&	AREA/PERSON	=	118.27
tagC114APE&&&	AREA/PERSON	=	225.00
tagC115APE&&&	AREA/PERSON	=	225.00
tagC116APE&&&	AREA/PERSON	=	225.00
tagC117APE&&&	AREA/PERSON	=	225.00
tagC118APE&&&	AREA/PERSON	=	118.27
		۳ ₀	c Qual Host Caby

	IIĽA I – I			-	Majou	GIIUCOT	SYST	neat	SCII
	COOL-1	remp-so	СН	=	"MajSD	${\tt GndCor}$	Sys1	Cool	Sch"
"S1	. Sys1	(PSZ)	Fan	Sch	ı"				

tagC117Ewin&&&"East Win (G.E2.E2.W1)" = WINDOW
tagC117Ewin&&& GLASS-TYPE = "913 Window Type #1 GT"
tagC117Ewin&& FRAME-WIDTH = 0.108333
tagC117Ewin&& X = 3.39905

```
tagC117Ewin&&&
                Y
                                = 3.60833
tagC117Ewin&&&
                HEIGHT
                                = 3.28333
tagC117Ewin&&&
                WIDTH
                                = 6.7519
tagC117Ewin&&&
                FRAME-CONDUCT
                                = 2.781
tagC117Ewin&&&
                . .
tagC117Nwin&&&"North Win (G.N1.E1.W1)" = WINDOW
tagC117Nwin&&&
                GLASS-TYPE
                                = "913 Window Type #1 GT"
tagC117Nwin&&&
                FRAME-WIDTH
                                = 0.108333
tagC117Nwin&&&
                Х
                                = 2.97405
tagC117Nwin&&&
                Y
                                = 3.60833
                HEIGHT
                                = 3.28333
tagC117Nwin&&&
tagC117Nwin&&&
                WIDTH
                                = 5.8519
tagC117Nwin&&&
                FRAME-CONDUCT
                                = 2.781
tagC117Nwin&&&
                . .
tagC116Swin&&&
tagC116Ewin&&&"East Win (G.E4.E5.W1)" = WINDOW
tagC116Ewin&&&
                GLASS-TYPE
                                = "913 Window Type #1 GT"
tagC116Ewin&&&
                FRAME-WIDTH
                                = 0.108333
tagC116Ewin&&& X
                                = 2.07833
tagC116Ewin&&& Y
                                = 3.60833
tagC116Ewin&&& HEIGHT
                                = 3.28333
tagC116Ewin&&&
                WIDTH
                                = 4.38333
                FRAME-CONDUCT
tagC116Ewin&&&
                                = 2.781
tagC116Ewin&&&
                . .
tagC116Ewin&&&"East Win (G.E4.E5.W2)" = WINDOW
tagC116Ewin&&&
                GLASS-TYPE
                                = "913 Window Type #1 GT"
tagC116Ewin&&&
                                = 0.108333
                FRAME-WIDTH
tagC116Ewin&&&
              Х
                                = 6.82833
                Y
tagC116Ewin&&&
                                = 3.60833
tagC116Ewin&&&
               HEIGHT
                                = 3.28333
                WIDTH
tagC116Ewin&&&
                                = 4.38333
tagC116Ewin&&&
                FRAME-CONDUCT
                                = 2.781
tagC116Ewin&&&
                . .
tagC116Ewin&&&"East Door (G.E4.E5.D1)" = DOOR
                CONSTRUCTION
                                = "Sgl Lyr Unins Mtl Door"
tagC116Ewin&&&
                                = 13.7
tagC116Ewin&&&
                Х
tagC116Ewin&&&
                HEIGHT
                                = 7
tagC116Ewin&&&
                WIDTH
                                = 3
tagC116Ewin&&&
                . .
```

tagC116Nwin&&&
tagC114Nwin&&&

```
tagC114Swin&&&"South Win (G.S7.E11.W1)" = WINDOW
tagC114Swin&&&
                GLASS-TYPE
                                = "913 Window Type #1 GT"
tagC114Swin&&&
               FRAME-WIDTH
                                = 0.108333
tagC114Swin&&& X
                                = 1.56548
tagC114Swin&&& Y
                                = 3.60833
tagC114Swin&&& HEIGHT
                              = 3.28333
tagC114Swin&&&
                WIDTH
                                = 2.86905
               FRAME-CONDUCT
tagC114Swin&&&
                                = 2.781
tagC114Swin&&&
                . .
tagC114Ewin&&&"East Win (G.E6.E9.W1)" = WINDOW
tagC114Ewin&&&
                GLASS-TYPE
                                = "913 Window Type #1 GT"
tagC114Ewin&&& FRAME-WIDTH
                                = 0.108333
tagC114Ewin&&& X
                                = 6.62833
tagC114Ewin&&& Y
                                = 3.60833
tagC114Ewin&&& HEIGHT
                                = 3.28333
tagC114Ewin&&&
                WIDTH
                                = 8.47333
                FRAME-CONDUCT = 2.781
tagC114Ewin&&&
tagC114Ewin&&&
                . .
tagC114Ewin&&&"East Door (G.E6.E9.D1)" = DOOR
tagC114Ewin&&&
                CONSTRUCTION = "Sgl Lyr Unins Mtl Door"
                                = 1.8267
tagC114Ewin&&&
                Х
tagC114Ewin&&& HEIGHT
                                = 7
tagC114Ewin&&&
                WIDTH
                                = 3
tagC114Ewin&&&
                . .
tagC111Swin&&&
tagC110Swin&&&"South Door (G.S12.E14.D1)" = DOOR
                CONSTRUCTION
tagC110Swin&&&
                                = "Sgl Lyr Unins Mtl Door"
                                = 1.93911
tagC110Swin&&&
               Х
                                = 7
tagC110Swin&&&
                HEIGHT
                                = 3
tagC110Swin&&&
                WIDTH
tagC110Swin&&&
                . .
tagC109Ewin&&&"East Win (G.E28.E26.W1)" = WINDOW
tagC109Ewin&&&
                GLASS-TYPE
                                = "913 Window Type #1 GT"
tagC109Ewin&&&
                FRAME-WIDTH
                                = 0.108333
```

```
tagC109Ewin&&&
                Х
                                 = 5.97833
tagC109Ewin&&&
                Y
                                 = 3.60833
tagC109Ewin&&&
                HEIGHT
                                 = 3.28333
tagC109Ewin&&&
                WIDTH
                                 = 5.78333
tagC109Ewin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC109Ewin&&&
                . .
tagC109Wwin&&&"West Win (G.W31.E28.W1)" = WINDOW
tagC109Wwin&&&
                                 = "913 Window Type #1 GT"
                GLASS-TYPE
tagC109Wwin&&&
                FRAME-WIDTH
                                 = 0.108333
                                 = 6.21833
tagC109Wwin&&&
                Х
                                 = 3.60833
tagC109Wwin&&&
               Y
tagC109Wwin&&&
                HEIGHT
                                 = 3.28333
tagC109Wwin&&&
                WIDTH
                                 = 5.78333
                FRAME-CONDUCT
tagC109Wwin&&&
                                 = 2.781
tagC109Wwin&&&
                . .
tagC109Swin&&&
tagC108swin&&&
tagC108Swin&&&"South Win (G.C26.E23.W1)" = WINDOW
tagC108Swin&&&
                GLASS-TYPE
                                 = "913 Window Type #1 GT"
tagC108Swin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC108Swin&&& X
                                 = 1.46839
tagC108Swin&&&
               Y
                                 = 3.60833
tagC108Swin&&& HEIGHT
                                 = 3.28333
tagC108Swin&&&
                WIDTH
                                 = 2.66345
tagC108Swin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC108Swin&&&
                . .
tagC108Wwin&&&"West Win (G.W27.E25.W1)" = WINDOW
tagC108Wwin&&&
                GLASS-TYPE
                                 = "913 Window Type #1 GT"
tagC108Wwin&&&
                FRAME-WIDTH
                                 = 0.108333
tagC108Wwin&&&
                Х
                                 = 6.90833
tagC108Wwin&&&
               Y
                                 = 3.60833
tagC108Wwin&&&
                HEIGHT
                                 = 3.28333
tagC108Wwin&&&
                WIDTH
                                 = 6.78333
tagC108Wwin&&&
                FRAME-CONDUCT
                                 = 2.781
tagC108Wwin&&&
                . .
tagC106Wwin&&&"West Door (G.W25.E22.D1)" = DOOR
tagC106Wwin&&&
                CONSTRUCTION
                                 = "Sgl Lyr Unins Mtl Door"
```

tagC106Wwin&&&	X	= 6.94145	
tagC106Wwin&&&	HEIGHT	= 7	
tagC106Wwin&&&	WIDTH	= 3	
tagC106Wwin&&&			
tagC105Wwin&&&"	West Win (G.W22.E	21.W1)" = WINDOW	
tagC105Wwin&&&	GLASS-TYPE	= "913 Window Type #1 GT"	
tagC105Wwin&&&	FRAME-WIDTH	= 0.108333	
tagC105Wwin&&&	Х	= 3.11833	
tagC105Wwin&&&	Y	= 3.60833	
tagC105Wwin&&&	HEIGHT	= 3.28333	
tagC105Wwin&&&	WIDTH	= 5.98333	
tagC105Wwin&&&	FRAME-CONDUCT	= 2.781	
tagC105Wwin&&&			
tagC104Nwin&&&			
tagC104Wwin&&&			
tagC101Wwin&&&"	West Win (G.W18.E	C18.W1)" = WINDOW	
tagC101Wwin&&&	GLASS-TYPE	= "913 Window Type #1 GT"	
tagC101Wwin&&&	FRAME-WIDTH	= 0.108333	
tagC101Wwin&&&	Х	= 2.40333	
tagC101Wwin&&&	Y	= 3.60833	
tagC101Wwin&&&	HEIGHT	= 3.28333	
tagC101Wwin&&&	WIDTH	= 4.64333	
tagC101Wwin&&&	FRAME-CONDUCT	= 2.781	
tagC101Wwin&&&			
tagC101Nwin&&&"	North Win (G.N17.	E17.W1)" = WINDOW	
tagC101Nwin&&&	GLASS-TYPE	= "913 Window Type #1 GT"	
tagC101Nwin&&&	FRAME-WIDTH	= 0.108333	
tagC101Nwin&&&	Х	= 3.0469	
tagC101Nwin&&&	Y	= 3.60833	
tagC101Nwin&&&	HEIGHT	= 3.28333	
tagC101Nwin&&&	WIDTH	= 6.00619	
tagC101Nwin&&&	FRAME-CONDUCT	= 2.781	
tagC101Nwin&&&	•••		
tagC100Nwin&&&"	North Win (G.N13.	E15.W1)" = WINDOW	
tagC100Nwin&&&	GLASS-TYPE	= "913 Window Type #1 GT"	
tagC100Nwin&&&	FRAME-WIDTH	= 0.108333	
tagC100Nwin&&&	Х	= 0.1787	

```
tagC100Nwin&&&
                 Y
                                  = 3.60833
tagC100Nwin&&&
                 HEIGHT
                                  = 3.28333
tagC100Nwin&&&
                 WIDTH
                                  = 4.16764
tagC100Nwin&&&
                 FRAME-CONDUCT
                                  = 2.781
tagC100Nwin&&&
                 . .
tagC100Nwin&&&"North Win (G.N13.E15.W2)" = WINDOW
tagC100Nwin&&&
                 GLASS-TYPE
                                  = "913 Window Type #1 GT"
tagC100Nwin&&&
                FRAME-WIDTH
                                  = 0.108333
tagC100Nwin&&&
                                  = 12.7037
                Х
                Y
tagC100Nwin&&&
                                  = 3.60833
                HEIGHT
                                  = 3.28333
tagC100Nwin&&&
tagC100Nwin&&&
                 WIDTH
                                  = 4.16764
tagC100Nwin&&&
                 FRAME-CONDUCT
                                  = 2.781
tagC100Nwin&&&
                 . .
tagC100Nwin&&&"North Door (G.N13.E15.D1)" = WINDOW
tagC100Nwin&&&
                 GLASS-TYPE
                                  = "913 Door Type #1 GT"
                                  = 0.25
tagC100Nwin&&&
                FRAME-WIDTH
tagC100Nwin&&&
                                  = 5.77504
                Х
tagC100Nwin&&&
                Y
                                  = 0.25
tagC100Nwin&&&
                                  = 6.5
                HEIGHT
tagC100Nwin&&&
                 WIDTH
                                  = 2.5
tagC100Nwin&&&
                 FRAME-CONDUCT
                                  = 3.079
tagC100Nwin&&&
                 . .
tagC100Nwin&&&"North Door (G.N13.E15.D2)" = WINDOW
                                  = "913 Door Type #1 GT"
                 GLASS-TYPE
tagC100Nwin&&&
tagC100Nwin&&&
                FRAME-WIDTH
                                  = 0.25
tagC100Nwin&&&
                Х
                                  = 8.77504
tagC100Nwin&&&
                Y
                                  = 0.25
tagC100Nwin&&&
                                  = 6.5
                HEIGHT
tagC100Nwin&&&
                                  = 2.5
                 WIDTH
tagC100Nwin&&&
                FRAME-CONDUCT
                                  = 3.079
tagC100Nwin&&&
                 . .
tagC115Ewin&&&"East Win (G.E8.E12.W1)" = WINDOW
tagC115Ewin&&&
                 GLASS-TYPE
                                  = "913 Window Type #1 GT"
tagC115Ewin&&&
                FRAME-WIDTH
                                  = 0.108333
tagC115Ewin&&&
                                  = 0.628333
                Х
tagC115Ewin&&&
                Y
                                  = 3.60833
                                  = 3.28333
tagC115Ewin&&&
                HEIGHT
tagC115Ewin&&&
                 WIDTH
                                  = 1.78333
tagC115Ewin&&&
                FRAME-CONDUCT
                                  = 2.781
tagC115Ewin&&&
                 . .
```

tagC115Ewin&&&"East Door (G.E8.E12.D1)" = WINDOW tagC115Ewin&&& GLASS-TYPE = "913 Window Type #1 GT" tagC115Ewin&&& FRAME-WIDTH = 0.25 tagC115Ewin&&& Х = 3.59= 0.25 tagC115Ewin&&& Y tagC115Ewin&&& HEIGHT = 6.5 tagC115Ewin&&& WIDTH = 5.5 FRAME-CONDUCT tagC115Ewin&&& = 3.079 tagC115Ewin&&& . . tagC115Ewin&&&"East Win (G.E8.E12.W2)" = WINDOW GLASS-TYPE = "913 Window Type #1 GT" tagC115Ewin&&& FRAME-WIDTH tagC115Ewin&&& = 0 tagC115Ewin&&& X = 9.98 tagC115Ewin&&& Y = 3.5= 3.5tagC115Ewin&&& HEIGHT WIDTH tagC115Ewin&&& = 2 tagC115Ewin&&& FRAME-CONDUCT = 2.781 tagC115Ewin&&& . . tagC100CEI&&&"EL1 Ceiling (G.N16.I46)" = INTERIOR-WALL tagC100CEI&&& NEXT-TO = "C100 Plnm (G.N34)" CONSTRUCTION = "EL1 Ceilg Construction" tagC100CEI&&& LOCATION = TOP tagC100CEI&&& tagC100CEI&&& . . tagC101CEI&&&"EL1 Ceiling (G.NW15.I44)" = INTERIOR-WALL tagC101CEI&&& NEXT-TO = "C101 Plnm (G.NW33)" CONSTRUCTION = "EL1 Ceilg Construction" tagC101CEI&&& LOCATION = TOP tagC101CEI&&& tagC101CEI&&& . . tagC102CEI&&&"EL1 Ceiling (G.C17.I48)" = INTERIOR-WALL tagC102CEI&&& NEXT-TO = "C102 Plnm (G.C35)" tagC102CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC102CEI&&& LOCATION tagC102CEI&&& . . tagC103CEI&&&"EL1 Ceiling (G.C13.I38)" = INTERIOR-WALL = "C103 Plnm (G.C31)" tagC103CEI&&& NEXT-TO = "EL1 Ceilg Construction" tagC103CEI&&& CONSTRUCTION tagC103CEI&&& LOCATION = TOP tagC103CEI&&& . .

tagC104CEI&&&"EL1 Ceiling (G.WNW14.I42)" = INTERIOR-WALL NEXT-TO = "C104 Plnm (G.WNW32)"tagC104CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC104CEI&&& = TOP tagC104CEI&&& LOCATION tagC104CEI&&& • • tagC105CEI&&&"EL1 Ceiling (G.W11.I31)" = INTERIOR-WALL tagC105CEI&&& NEXT-TO = "C105 Plnm (G.W29)" tagC105CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC105CEI&&& LOCATION = TOP tagC105CEI&&& . . tagC106CEI&&&"EL1 Ceiling (G.W9.I24)" = INTERIOR-WALL NEXT-TO = "C106 Plnm (G.W27)" tagC106CEI&&& = "EL1 Ceilg Construction" tagC106CEI&&& CONSTRUCTION LOCATION = TOP tagC106CEI&&& tagC106CEI&&& . . tagC107CEI&&&"EL1 Ceiling (G.C10.I28)" = INTERIOR-WALL tagC107CEI&&& NEXT-TO = "C107 Plnm (G.C28)" tagC107CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC107CEI&&& tagC107CEI&&& . . tagC108CEI&&&"EL1 Ceiling (G.WSW8.I20)" = INTERIOR-WALL tagC108CEI&&& NEXT-TO = "C108 Plnm (G.WSW26)" tagC108CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC108CEI&&& LOCATION = TOP tagC108CEI&&& . . tagC109CEI&&&"EL1 Ceiling (G.S7.I17)" = INTERIOR-WALL tagC109CEI&&& NEXT-TO = "C109 Plnm (G.S25)" tagC109CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" = TOP tagC109CEI&&& LOCATION tagC109CEI&&& . . tagC110CEI&&&"EL1 Ceiling (G.S5.I12)" = INTERIOR-WALL = "C110 Plnm (G.S23)" tagC110CEI&&& NEXT-TO tagC110CEI&&& = "EL1 Ceilg Construction" CONSTRUCTION tagC110CEI&&& LOCATION = TOP tagC110CEI&&& . .

tagC111CEI&&&"EL1 Ceiling (G.S4.I9)" = INTERIOR-WALL = "C111 Plnm (G.S22)" tagC111CEI&&& NEXT-TO CONSTRUCTION = "EL1 Ceilg Construction" tagC111CEI&&& = TOP tagC111CEI&&& LOCATION tagC111CEI&&& . . tagC112CEI&&&"EL1 Ceiling (G.C6.I16)" = INTERIOR-WALL NEXT-TO = "C112 C113 Plnm (G.C24)" tagC112CEI&&& tagC112CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC112CEI&&& LOCATION = TOP tagC112CEI&&& . . tagC114CEI&&&"EL1 Ceiling (G.E3.I5)" = INTERIOR-WALL tagC114CEI&&& NEXT-TO = "C114 Plnm (G.E21)" = "EL1 Ceilg Construction" tagC114CEI&&& CONSTRUCTION LOCATION tagC114CEI&&& = TOP tagC114CEI&&& . . tagC115CEI&&&"EL1 Ceiling (G.E18.I56)" = INTERIOR-WALL tagC115CEI&&& NEXT-TO = "C115 Plnm (G.E36)" tagC115CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" LOCATION = TOP tagC115CEI&&& tagC115CEI&&& . . tagC116CEI&&&"EL1 Ceiling (G.ESE2.I4)" = INTERIOR-WALL tagC116CEI&&& NEXT-TO = "C116 Plnm (G.ESE20)" tagC116CEI&&& CONSTRUCTION = "EL1 Ceilg Construction"
tagC116CEI&&& LOCATION LOCATION = TOP tagC116CEI&&& tagC116CEI&&& . . tagC117CEI&&&"EL1 Ceiling (G.NE1.I2)" = INTERIOR-WALL tagC117CEI&&& NEXT-TO = "C117 Plnm (G.NE19)" tagC117CEI&&& CONSTRUCTION = "EL1 Ceilg Construction" tagC117CEI&&& = TOP LOCATION tagC117CEI&&& . . tagC118CEI&&&"EL1 Ceiling (G.C12.I34)" = INTERIOR-WALL = "minifoyer Plnm (G.C30)" tagC118CEI&&& NEXT-TO = "EL1 Ceilg Construction" tagC118CEI&&& CONSTRUCTION tagC118CEI&&& LOCATION = TOP tagC118CEI&&& . .

I.2 Plenum substitution files

I.2.1 Participant 019

I.2.2 Participant 027

```
"C117 Plnm (G.NE19)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON = "EL1 Space Polygon 1"
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                = TOP
  LOCATION
  . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C116 Plnm (G.ESE20)" = SPACE
  Z
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
```

```
= UNCONDITIONED
  ZONE-TYPE
  INF-SCHEDULE
                = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
  POLYGON = "EL1 Space Polygon 2"
  LOCATION = FLOOR-V12
  . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
              = TOP
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  ZONE-TYPE
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
                = "EL1 Space Polygon 3"
  POLYGON
  LOCATION = FLOOR-V10
  . .
```

```
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
            = SPACE-V1
  SHADING-SURFACE = YES
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                = TOP
  LOCATION
  . .
"C111 Plnm (G.S22)" = SPACE
                 = 92.75
  Х
  Y
                 = 56.45
  Z
                 = 9
  AZIMUTH
                 = 180
  HEIGHT
                 = 3
  SHAPE
                = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 4"
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO
                 = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                  = 92.75
  Y
                  = 42.75
                  = 9
  7.
  AZIMUTH
                 = -90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
               = "EL1 Space Polygon 5"
  POLYGON
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
   . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C112 C113 Plnm (G.C24)" = SPACE
  Х
                  = 71.25
  Y
                  = 42.75
  7.
                  = 9
                 = 3
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  ZONE-TYPE
  INF-FLOW/AREA = 0.001
  POLYGON
                   = "EL1 Space Polygon 6"
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V1
  . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
"C109 Plnm (G.S25)" = SPACE
  Ζ
                  = 9
  HEIGHT
                 = 3
                 = POLYGON
  SHAPE
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
```

```
INF-FLOW/AREA = 0.021043
  POLYGON = "EL1 Space Polygon 7"
  LOCATION = FLOOR-V7
  . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"C108 Plnm (G.WSW26)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
  POLYGON
                = "EL1 Space Polygon 8"
  LOCATION = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
```
```
SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
  NEXT-TO = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
"EL1 North Wall (G.WSW26.168)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
"C106 Plnm (G.W27)" = SPACE
  Х
                 = 71.25
  Y
                 = 18.5
  Ζ
                 = 9
  AZIMUTH
                 = -90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON
                = "EL1 Space Polygon 9"
  . .
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
```

```
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                 = 61.1
  Y
                  = 25
  Ζ
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 10"
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO
                 = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
              = SPACE-V3
  LOCATION
  . .
```

```
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C105 Plnm (G.W29)" = SPACE
  Х
                   = 61.1
  Y
                  = 18.5
  Z
                  = 9
  AZIMUTH
                 = -90
  HEIGHT
                  = 3
  SHAPE= POLYGUNZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) P-Inf Sch"INF-METHOD= AIR-CHANGE
  SHAPE
                  = POLYGON
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
  . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION
                 = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"minifoyer Plnm (G.C30)" = SPACE
                  = 60.8
  Х
  Y
                  = 34
  7.
                   = 9
  HEIGHT = 3
```

```
SHAPE
                 = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 12"
  . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C103 Plnm (G.C31)" = SPACE
                  = 41.25
  Х
  Y
                  = 25.75
                  = 9
  Ζ
                 = 3
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                 = "EL1 Space Polygon 13"
   . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO
                 = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
```

```
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
                 = "C101 Plnm (G.NW33)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
"C104 Plnm (G.WNW32)" = SPACE
  Z
                 = 9
  HEIGHT
                = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON
                = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
  . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
"EL1 South Wall (G.WNW32.182)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.I83)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
   . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  7.
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON
                = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"EL1 East Wall (G.NW33.185)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
                 = 31.25
  Х
  Y
                  = 50.5
  7.
                 = 9
```

```
AZIMUTH
                 = 90
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) P-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.N34.186)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C102 Plnm (G.C35)" = SPACE
                  = 41.25
  Х
  Y
                  = 34
  7.
                  = 9
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                   = "EL1 Space Polygon 17"
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V4
  . .
"C115 Plnm (G.E36)" = SPACE
  7.
                 = 9
  HEIGHT
                = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
              = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
  . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 North Wall (G.E36.188)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION
                = "EL1 IWall Construction"
            = SPACE-V4
  LOCATION
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
                = "C102 Plnm (G.C35)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V5
  . .
```

```
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V7
  . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
            = "C114 Plnm (G.E21)"
  NEXT-TO
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V9
  ••
```

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"C117 Plnm (G.NE19)" = SPACE
  7.
                 = 8
                 = 2
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
               = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON = "EL1 Space Polygon 1"
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
```

```
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V4
  . .
"C116 Plnm (G.ESE20)" = SPACE
  7.
                 = 8
                 = 2
  HEIGHT
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
  POLYGON = "EL1 Space Polygon 2"
  LOCATION = FLOOR-V12
   . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
```

```
Ζ
                   = 8
                  = 2
  HEIGHT
  SHAPE
                  = POLYGON
  SHAPEICLINEZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) P-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
  POLYGON = "EL1 Space Polygon 3"
  LOCATION = FLOOR-V10
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
   . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
  Х
                   = 92.75
  Y
                  = 56.45
  7.
                   = 8
  AZIMUTH
                 = 180
                  = 2
  HEIGHT
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
                  = "EL1 Space Polygon 4"
   . .
```

```
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                  = 92.75
  Y
                 = 42.75
  Z
                 = 8
  AZIMUTH
                = -90
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE
               = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
               = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
```

```
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
             = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C112 C113 Plnm (G.C24)" = SPACE
  Х
                 = 71.25
  Y
                  = 42.75
                  = 8
  7.
  HEIGHT
                 = 2
                 = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 6"
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
                  = "minifoyer Plnm (G.C30)"
  NEXT-TO
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C109 Plnm (G.S25)" = SPACE
   Ζ
                  = 8
  HEIGHT
                  = 2
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON = "EL1 Space Polygon 7"
LOCATION = FLOOR-V7
   . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V3
  SHADING-SURFACE = YES
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V4
   SHADING-SURFACE = YES
   . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"C108 Plnm (G.WSW26)" = SPACE
   Ζ
                   = 8
                  = 2
  HEIGHT
                   = POLYGON
   SHAPE
   ZONE-TYPE
                  = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
   INF-FLOW/AREA = 0.00661424
                = "EL1 Space Polygon 8"
  POLYGON
```

```
LOCATION = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION = SPACE-V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
                 = "C109 Plnm (G.S25)"
  NEXT-TO
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.168)" = INTERIOR-WALL
  NEXT-TO
                  = "minifoyer Plnm (G.C30)"
  CONSTRUCTION
                = "EL1 IWall Construction"
                 = SPACE-V5
  LOCATION
  . .
"C106 Plnm (G.W27)" = SPACE
                 = 71.25
  Х
  Y
                  = 18.5
  Ζ
                  = 8
                 = -90
  AZIMUTH
                 = 2
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE
                = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
              = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
```

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POLYGON = "EL1 Space Polygon 9"
  . .
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION
               = "EL1 EWall Construction"
  LOCATION
                = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO
                = "C105 Plnm (G.W29)"
  CONSTRUCTION
               = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                 = 61.1
  Y
                = 25
  7.
                 = 8
  HEIGHT
                = 2
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.001
                = "EL1 Space Polygon 10"
  POLYGON
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
```

```
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
                 = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V3
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C105 Plnm (G.W29)" = SPACE
                 = 61.1
  Х
  Y
                  = 18.5
  7.
                  = 8
                 = -90
  AZIMUTH
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) P-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
  . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
                 = "minifoyer Plnm (G.C30)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
              = SPACE-V2
  LOCATION
  . .
```

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"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"minifoyer Plnm (G.C30)" = SPACE
   Х
                    = 60.8
  Y
                    = 34
   Z
                    = 8
                   = 2
  HEIGHT
  SHAPE
                   = POLYGON
  ZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) C-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
   . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
              = SPACE-V4
  LOCATION
   . .
"C103 Plnm (G.C31)" = SPACE
  Х
                   = 41.25
   Y
                    = 25.75
   Ζ
                   = 8
  HEIGHT
                   = 2
                   = POLYGON
   SHAPE
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
   INF-FLOW/AREA = 0.001
                = "EL1 Space Polygon 13"
  POLYGON
```

```
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
   . .
"C104 Plnm (G.WNW32)" = SPACE
                  = 8
  Ζ
  HEIGHT
                 = 2
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON
                 = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
   . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE - V2
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 Roof Construction"
LOCATION = TOP
   . .
"EL1 South Wall (G.WNW32.182)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.I83)" = INTERIOR-WALL
             = "C103 Plnm (G.C31)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  Ζ
                  = 8
                 = 2
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
```

```
"EL1 East Wall (G.NW33.I85)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
                 = 31.25
  Х
  Y
                 = 50.5
  7.
                  = 8
                 = 90
  AZIMUTH
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.N34.186)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C102 Plnm (G.C35)" = SPACE
  Х
                  = 41.25
  Y
                  = 34
  Z
                  = 8
  HEIGHT
                 = 2
                 = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
```

```
INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 17"
  • •
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C115 Plnm (G.E36)" = SPACE
  Ζ
                 = 8
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
  . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
                = "C116 Plnm (G.ESE20)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
             = SPACE-V3
  . .
```

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"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
CONSTRUCTION = "EL1 IWall Construct
                  = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V7
   . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
   NEXT-TO = "C114 \text{ Plnm} (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V8
   . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V9
   . .
```

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"C117 Plnm (G.NE19)" = SPACE
   Ζ
                  = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
               = "EL1 Space Polygon 1"
  POLYGON
  LOCATION = FLOOR-V15
   . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
```

```
SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO
            = "C102 Plnm (G.C35)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V4
"C116 Plnm (G.ESE20)" = SPACE
  7.
                 = 9
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
                = UNCONDITIONED
  ZONE-TYPE
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
  POLYGON
                = "EL1 Space Polygon 2"
  LOCATION = FLOOR-V12
  . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
```

```
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
            = TOP
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
                 = 9
  7.
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
               = "EL1 Space Polygon 3"
  POLYGON
  LOCATION = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V5
  SHADING-SURFACE = YES
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  • •
"C111 Plnm (G.S22)" = SPACE
  Х
                 = 92.75
  Y
                = 56.45
```

```
Z
                  = 9
  AZIMUTH
                 = 180
  HEIGHT
                  = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 4"
  . .
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                  = 92.75
  Y
                  = 42.75
  Ζ
                  = 9
                  = -90
  AZIMUTH
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
```

```
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V1
  SHADING-SURFACE = YES
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C112 C113 Plnm (G.C24)" = SPACE
                   = 71.25
  Х
                   = 42.75
  Y
  Z
                  = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
               = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                 = "EL1 Space Polygon 6"
   . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
   . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
            = "minifoyer Plnm (G.C30)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C109 Plnm (G.S25)" = SPACE
  7.
                  = 9
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON
                 = "EL1 Space Polygon 7"
  LOCATION = FLOOR-V7
  . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
```

```
"C108 Plnm (G.WSW26)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
  POLYGON = "EL1 Space Polygon 8"
  LOCATION = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V7
  SHADING-SURFACE = YES
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 South Wall (G.WSW26.167)" = INTERIOR-WALL
  NEXT-TO = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
   . .
"EL1 North Wall (G.WSW26.I68)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
                 = SPACE-V5
  . .
"C106 Plnm (G.W27)" = SPACE
```

```
Х
                = 71.25
  Y
                = 18.5
  7.
                 = 9
  AZIMUTH
                = -90
  HEIGHT
                = 4
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON = "EL1 Space Polygon 9"
  ..
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO
                = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                 = 61.1
  Y
                = 25
  Ζ
                = 9
                = 4
  HEIGHT
  SHAPE = POLYGON
```

```
ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 10"
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  ••
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C105 Plnm (G.W29)" = SPACE
  Х
                 = 61.1
  Y
                 = 18.5
  Ζ
                 = 9
  AZIMUTH
                 = -90
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
  . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
```

```
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
   . .
"minifoyer Plnm (G.C30)" = SPACE
   Х
                   = 60.8
  Y
                   = 34
   Ζ
                   = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
   ..
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C103 Plnm (G.C31)" = SPACE
```

```
Х
                   = 41.25
                   = 25.75
  Y
   7.
                   = 9
  HEIGHT
                  = 4
  SHAPE
                   = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
  . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
   . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
   . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                   = SPACE-V3
   . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C104 Plnm (G.WNW32)" = SPACE
   Ζ
                   = 9
                  = 4
  HEIGHT
  SHAPE
                   = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON = "EL1 Space Polygon 14"
LOCATION = FLOOR-V2
   . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.WNW32.I82)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.I83)" = INTERIOR-WALL
                  = "C103 Plnm (G.C31)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V5
   . .
"C101 Plnm (G.NW33)" = SPACE
  7.
                  = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                  = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
                = "EL1 Space Polygon 15"
  POLYGON
  LOCATION = FLOOR-V1
   . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
```

```
SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
                 = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.NW33.185)" = INTERIOR-WALL
  NEXT-TO
            = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
"C100 Plnm (G.N34)" = SPACE
  Х
                  = 31.25
  Y
                  = 50.5
  Ζ
                  = 9
  AZIMUTH
                 = 90
                  = 4
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON
                = "EL1 Space Polygon 16"
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
                 = SPACE-V1
  LOCATION
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
  . .
"EL1 East Wall (G.N34.I86)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
```

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"C102 Plnm (G.C35)" = SPACE
                   = 41.25
  Х
  Y
                   = 34
   Z
                   = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  ZONE-TYPE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 17"
   . .
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
   . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C115 Plnm (G.E36)" = SPACE
  Ζ
                  = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
   . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
```
```
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO
                = "C116 Plnm (G.ESE20)"
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
            = SPACE-V4
  LOCATION
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO
                = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V7
  . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION
                = SPACE-V9
  . .
```

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"C117 Pl	nm (G.NE	(19)" =	SPACE
Z		=	9
HEIGH	Т	=	3
SHAPE		=	POLYGON

```
ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE
               = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON = "EL1 Space Polygon 1"
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION
               = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO
                = "C102 Plnm (G.C35)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C116 Plnm (G.ESE20)" = SPACE
  Z
                = 9
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
              = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
                = "EL1 Space Polygon 2"
  POLYGON
  LOCATION = FLOOR-V12
  . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
               = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
  . .
```

```
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
                 = SPACE-V2
  LOCATION
  SHADING-SURFACE = YES
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
  POLYGON
                = "EL1 Space Polygon 3"
  LOCATION = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
                 = 92.75
  Х
  Y
                 = 56.45
  7.
                  = 9
  AZIMUTH
                = 180
                = 3
  HEIGHT
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 4"
  . .
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
            = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO
                = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                 = 92.75
  Y
                 = 42.75
  Ζ
                 = 9
  AZIMUTH
                = -90
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
"C112 C113 Plnm (G.C24)" = SPACE
  Х
                 = 71.25
  Y
                 = 42.75
  Ζ
                 = 9
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE
               = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
```

```
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
                = "EL1 Space Polygon 6"
  POLYGON
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
            = "C108 Plnm (G.WSW26)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
                = "minifoyer Plnm (G.C30)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C109 Plnm (G.S25)" = SPACE
  Ζ
                = 9
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON
                = "EL1 Space Polygon 7"
  LOCATION = FLOOR-V7
  . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
```

```
SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"C108 Plnm (G.WSW26)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE
                = "ZGO-S1 (PSZ) P-Inf Sch"
                = AIR-CHANGE
  INF-METHOD
  INF-FLOW/AREA = 0.00661424
                = "EL1 Space Polygon 8"
  POLYGON
  LOCATION
                = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.I68)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V5
  . .
"C106 Plnm (G.W27)" = SPACE
                 = 71.25
  Х
  Y
                 = 18.5
  Ζ
                 = 9
  AZIMUTH
                = -90
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON = "EL1 Space Polygon 9"
  . .
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
```

```
NEXT-TO = "C105 Plnm (G.W29)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                  = 61.1
  Y
                  = 25
  7.
                  = 9
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  ZONE-TYPE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 10"
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
   . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V2
  . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C105 Plnm (G.W29)" = SPACE
  Х
                  = 61.1
  Y
                  = 18.5
  Z
                  = 9
  AZIMUTH
                 = -90
  HEIGHT
                  = 3
  SHAPE = POLYGON
```

```
ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
               = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
  . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"minifoyer Plnm (G.C30)" = SPACE
  Х
                 = 60.8
  Y
                 = 34
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
  . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
             = SPACE-V3
  LOCATION
  . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO
                 = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C103 Plnm (G.C31)" = SPACE
                 = 41.25
  Х
  Y
                 = 25.75
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
  . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V3
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C104 Plnm (G.WNW32)" = SPACE
  Ζ
                  = 9
```

```
HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
                 = "EL1 Space Polygon 14"
  POLYGON
  LOCATION
             = FLOOR-V2
   . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 South Wall (G.WNW32.I82)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.183)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE = POLYGON
```

```
ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.NW33.185)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
  Х
                 = 31.25
  Y
                 = 50.5
  7.
                 = 9
  AZIMUTH
                 = 90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
```

```
SHADING-SURFACE = YES
  . .
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.N34.I86)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C102 Plnm (G.C35)" = SPACE
                 = 41.25
  Х
  Y
                 = 34
  7.
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 17"
  ..
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C115 Plnm (G.E36)" = SPACE
  7.
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON
                = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
```

. .

```
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.E36.188)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO
                = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V7
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
  NEXT-TO
                = "C114 Plnm (G.E21)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V9
...
```

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```
"C117 Plnm (G.NE19)" = SPACE
  7.
                  = 8.5
  HEIGHT
                  = 6.5
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON = "EL1 Space Polygon 1"
LOCATION = FLOOR-V15
   . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
"C116 Plnm (G.ESE20)" = SPACE
  Z
                  = 8.5
  HEIGHT
                  = 6.5
  SHAPE
                  = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
```

```
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
  POLYGON
                = "EL1 Space Polygon 2"
  LOCATION = FLOOR-V12
  . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
"C114 Plnm (G.E21)" = SPACE
  7.
                = 8.5
  HEIGHT
                = 6.5
                = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
  POLYGON
                = "EL1 Space Polygon 3"
  LOCATION = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
  Х
                 = 92.75
  Y
                 = 56.45
  Ζ
                 = 8.5
  AZIMUTH
                 = 180
                = 6.5
  HEIGHT
  SHAPE
                = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
                = "EL1 Space Polygon 4"
  . .
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V5
  SHADING-SURFACE = YES
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO
                = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
                = SPACE-V4
  LOCATION
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                 = 92.75
  Y
                 = 42.75
  Ζ
                 = 8.5
                = -90
  AZIMUTH
  HEIGHT
                = 6.5
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
                = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO
                = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V4
  . .
"C112 C113 Plnm (G.C24)" = SPACE
                  = 71.25
  Х
  Y
                  = 42.75
  Z
                 = 8.5
  HEIGHT
                 = 6.5
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 6"
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C109 Plnm (G.S25)" = SPACE
  Ζ
                 = 8.5
  HEIGHT
                 = 6.5
  SHAPE
                 = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
               = "EL1 Space Polygon 7"
  POLYGON
```

```
LOCATION = FLOOR-V7
  . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"C108 Plnm (G.WSW26)" = SPACE
  7.
                 = 8.5
  HEIGHT
                 = 6.5
                 = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE
                = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
                = "EL1 Space Polygon 8"
  POLYGON
  LOCATION = FLOOR-V4
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
```

```
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V7
  SHADING-SURFACE = YES
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
  NEXT-TO = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
   . .
"EL1 North Wall (G.WSW26.I68)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
   . .
"C106 Plnm (G.W27)" = SPACE
  Х
                  = 71.25
  Y
                  = 18.5
  Z
                  = 8.5
  AZIMUTH
                  = -90
  HEIGHT
                  = 6.5
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON = "EL1 Space Polygon 9"
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V4
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"C107 Plnm (G.C28)" = SPACE
  Х
                 = 61.1
  Y
                 = 25
  Ζ
                 = 8.5
  HEIGHT
                 = 6.5
                 = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 10"
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C105 Plnm (G.W29)" = SPACE
  Х
                  = 61.1
  Y
                  = 18.5
  Z
                  = 8.5
  AZIMUTH
                  = -90
  HEIGHT
                  = 6.5
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"minifoyer Plnm (G.C30)" = SPACE
                   = 60.8
  Х
  Y
                  = 34
  Z
                  = 8.5
  HEIGHT
                 = 6.5
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
```

```
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
  . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C103 Plnm (G.C31)" = SPACE
                  = 41.25
  Х
  Y
                   = 25.75
  7.
                   = 8.5
  HEIGHT
                  = 6.5
  SHAPE
                  = POLYGON
  SIAFE= FOLIGONZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) C-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
  . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V3
  . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C104 Plnm (G.WNW32)" = SPACE
  7.
                 = 8.5
  HEIGHT
                 = 6.5
  SHAPE
                 = POLYGON
  ZONE-TYPE
               = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON
                = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
  . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 South Wall (G.WNW32.182)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.183)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
```

. .

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"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  7.
                = 8.5
  HEIGHT
                = 6.5
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 East Wall (G.NW33.I85)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
                 = 31.25
  Х
  Y
                 = 50.5
  Ż
                 = 8.5
  AZIMUTH
                = 90
  HEIGHT = 6.5
```

```
SHAPE
                 = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON
                = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.N34.I86)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C102 Plnm (G.C35)" = SPACE
                  = 41.25
  Х
  Y
                 = 34
  Ζ
                 = 8.5
  HEIGHT
                 = 6.5
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                 = "EL1 Space Polygon 17"
   . .
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO
                 = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
```

```
"C115 Plnm (G.E36)" = SPACE
  Ζ
                = 8.5
  HEIGHT
                 = 6.5
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON
                = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
  . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
                 = SPACE-V1
  LOCATION
  SHADING-SURFACE = YES
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO
                 = "C111 Plnm (G.S22)"
```

```
CONSTRUCTION = "EL1 IWall Construction"

LOCATION = SPACE-V7

...

"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL

NEXT-TO = "C114 Plnm (G.E21)"

CONSTRUCTION = "EL1 IWall Construction"

LOCATION = SPACE-V8

...

"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL

NEXT-TO = "C114 Plnm (G.E21)"

CONSTRUCTION = "EL1 IWall Construction"

LOCATION = SPACE-V9

...
```

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```
"C117 Plnm (G.NE19)" = SPACE
  Z
                 = 9
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE
               = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
                 = "EL1 Space Polygon 1"
  POLYGON
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
  . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
```

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NEXT-TO
                = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
              = SPACE-V4
  LOCATION
  . .
"C116 Plnm (G.ESE20)" = SPACE
  Ζ
                 = 9
  HEIGHT
                = 4
  SHAPE
                = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
                = "EL1 Space Polygon 2"
  POLYGON
  LOCATION
               = FLOOR-V12
  . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
                = "C117 Plnm (G.NE19)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
  Ζ
                 = 9
  HEIGHT = 4
```

```
SHAPE
                 = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
  POLYGON
                 = "EL1 Space Polygon 3"
  LOCATION = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
                 = SPACE-V1
  LOCATION
  SHADING-SURFACE = YES
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION
                 = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
                  = 92.75
  Х
  Y
                  = 56.45
  7.
                  = 9
                 = 180
  AZIMUTH
                  = 4
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 4"
  . .
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V5
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                 = 92.75
  Y
                  = 42.75
  7.
                  = 9
  AZIMUTH
                 = -90
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 5"
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
```

```
LOCATION = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO
                  = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V4
  . .
"C112 C113 Plnm (G.C24)" = SPACE
  Х
                   = 71.25
  Y
                  = 42.75
  Ζ
                  = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 6"
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                  = TOP
  LOCATION
   . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
   . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
```

. .

```
"C109 Plnm (G.S25)" = SPACE
                 = 9
  Ζ
  HEIGHT
                = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON = "EL1 Space Polygon 7"
  LOCATION = FLOOR-V7
  . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"C108 Plnm (G.WSW26)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
  POLYGON = "EL1 Space Polygon 8"
  LOCATION = FLOOR-V4
  . .
```

```
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
  NEXT-TO = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.I68)" = INTERIOR-WALL
                = "minifoyer Plnm (G.C30)"
  NEXT-TO
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V5
  . .
"C106 Plnm (G.W27)" = SPACE
                  = 71.25
  Х
  Y
                 = 18.5
  7.
                 = 9
  AZIMUTH
                = -90
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON
                = "EL1 Space Polygon 9"
  . .
```
```
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
   . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                   = 61.1
  Y
                  = 25
  Z
                  = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
               = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                 = "EL1 Space Polygon 10"
   . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
   . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C105 Plnm (G.W29)" = SPACE
   Х
                   = 61.1
   Y
                   = 18.5
   Z
                   = 9
   AZIMUTH = -90
  HEIGHT
                   = 4
   SHAPE
                   = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
   . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
   SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
   LOCATION = TOP
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
   NEXT-TO = "C102 Plnm (G.C35)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"minifoyer Plnm (G.C30)" = SPACE
                     = 60.8
   Х
   Y
                    = 34
   7.
                    = 9
   HEIGHT
                    = 4
  SHAPE= PULIGONZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) C-Inf Sch"INF-METHOD= AIR-CHANGE
   SHAPE
                   = POLYGON
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
   . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
   . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C103 Plnm (G.C31)" = SPACE
                   = 41.25
   Х
   Y
                    = 25.75
                    = 9
   7.
  HEIGHT
                    = 4
   SHAPE
                    = POLYGON
  SHAPE
ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
   INF-METHOD = AIR-CHANGE
   INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
   . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 Roof Construction"
LOCATION = TOP
   . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
            = "C102 Plnm (G.C35)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C104 Plnm (G.WNW32)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON
                = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
                 = SPACE-V1
  LOCATION
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
```

```
"EL1 South Wall (G.WNW32.I82)" = INTERIOR-WALL
                 = "C105 Plnm (G.W29)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.I83)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
"C101 Plnm (G.NW33)" = SPACE
  7.
                 = 9
  HEIGHT
                 = 4
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON
                 = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V1
  SHADING-SURFACE = YES
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.NW33.185)" = INTERIOR-WALL
```

```
NEXT-TO
                 = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
  Х
                  = 31.25
  Y
                  = 50.5
  7.
                  = 9
                 = 90
  AZIMUTH
                 = 4
  HEIGHT
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.N34.186)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
   . .
"C102 Plnm (G.C35)" = SPACE
  Х
                 = 41.25
  Y
                  = 34
  Ζ
                  = 9
  HEIGHT
                 = 4
                 = POLYGON
  SHAPE
                = UNCONDITIONED
  ZONE-TYPE
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
                = "EL1 Space Polygon 17"
  POLYGON
```

```
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C115 Plnm (G.E36)" = SPACE
  Ζ
                  = 9
  HEIGHT
                  = 4
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
  . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
                 = SPACE-V4
  LOCATION
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO
           = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V7
  . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
                = "C114 Plnm (G.E21)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V9
  . .
```

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```
"C117 Plnm (G.NE19)" = SPACE
  Ζ
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
                 = "EL1 Space Polygon 1"
  POLYGON
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V1
  SHADING-SURFACE = YES
   . .
```

```
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
                = "EL1 Roof Construction"
  CONSTRUCTION
  LOCATION
                 = TOP
   . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
   . .
"C116 Plnm (G.ESE20)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
                 = POLYGON
  SHAPE
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
  POLYGON
                 = "EL1 Space Polygon 2"
  LOCATION
                 = FLOOR-V12
  . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
```

```
LOCATION = TOP
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO
                = "C117 Plnm (G.NE19)"
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
  Ζ
                 = 9
                = 3
  HEIGHT
                 = POLYGON
  SHAPE
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
              = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
  POLYGON
                = "EL1 Space Polygon 3"
  LOCATION = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
                 = 92.75
  Х
  Y
                 = 56.45
  7.
                 = 9
  AZIMUTH = 180
```

```
HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
                = "EL1 Space Polygon 4"
  ..
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V5
  SHADING-SURFACE = YES
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                  = TOP
  LOCATION
   . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
   . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                   = 92.75
  Y
                   = 42.75
                   = 9
  Ζ
  AZIMUTH
                  = -90
  HEIGHT
                  = 3
                  = POLYGON
  SHAPE
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
```

```
INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C112 C113 Plnm (G.C24)" = SPACE
                 = 71.25
  Х
  Y
                  = 42.75
  7.
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 6"
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
```

```
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C109 Plnm (G.S25)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
                 = "EL1 Space Polygon 7"
  POLYGON
            = FLOOR-V7
  LOCATION
   . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"C108 Plnm (G.WSW26)" = SPACE
```

```
Ζ
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
               = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
  POLYGON = "EL1 Space Polygon 8"
  LOCATION = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
  NEXT-TO = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
             = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.I68)" = INTERIOR-WALL
                 = "minifoyer Plnm (G.C30)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
"C106 Plnm (G.W27)" = SPACE
  Х
                 = 71.25
  Y
                 = 18.5
```

```
Ζ
                  = 9
                = -90
  AZIMUTH
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
              = "EL1 Space Polygon 9"
  POLYGON
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
                 = 61.1
  Х
  Y
                 = 25
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
               = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
```

```
INF-METHOD = AIR-CHANGE
   INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 10"
   ..
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
   . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
   . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
   . .
"C105 Plnm (G.W29)" = SPACE
   Х
                   = 61.1
   Y
                   = 18.5
   7.
                    = 9
  AZIMUTH
                  = -90
                   = 3
   HEIGHT
   SHAPE
                   = POLYGON
  SHAPE= POLYGONZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) P-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
   . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 EWall Construction"
   LOCATION = SPACE-V5
   SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 Roof Construction"
LOCATION = TOP
   . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"minifoyer Plnm (G.C30)" = SPACE
                   = 60.8
  Х
  Y
                  = 34
  Z
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
  . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
   . .
"C103 Plnm (G.C31)" = SPACE
  Х
                 = 41.25
  Y
                 = 25.75
```

```
Ζ
                   = 9
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  SHAFE= FOLIGONZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) C-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
  ••
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V4
   . .
"C104 Plnm (G.WNW32)" = SPACE
  7.
                   = 9
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                  = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
   . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
```

```
SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 South Wall (G.WNW32.182)" = INTERIOR-WALL
  NEXT-TO
           = "C105 Plnm (G.W29)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V3
"EL1 East Wall (G.WNW32.183)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO
                 = "C101 Plnm (G.NW33)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  Ζ
                 = 9
  HEIGHT
                = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE
                = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON
                = "EL1 Space Polygon 15"
                = FLOOR-V1
  LOCATION
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
```

```
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.NW33.185)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
  Х
                  = 31.25
  Y
                   = 50.5
                  = 9
  7.
  AZIMUTH
                  = 90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON
               = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V1
  SHADING-SURFACE = YES
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
   . .
"EL1 East Wall (G.N34.I86)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C102 Plnm (G.C35)" = SPACE
```

```
Х
                  = 41.25
  Y
                  = 34
  7.
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 17"
  . .
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C115 Plnm (G.E36)" = SPACE
  Ζ
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON
                 = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
   . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
  NEXT-TO
                 = "C116 Plnm (G.ESE20)"
```

```
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
   . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO
                 = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V7
  . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
  NEXT-TO = "C114 \text{ Plnm} (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V8
  . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V9
  . .
```

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"C117 Plnm	(G.NE19)" =	= SPACE			
Z	=	9.17			
HEIGHT	=	2.83			
SHAPE	=	POLYGON			
ZONE-TYPE		UNCONDITIONED			
INF-SCHE	DULE =	"ZGO-S1	(PSZ)	P-Inf	Sch"

```
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON
                 = "EL1 Space Polygon 1"
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
  . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  ••
"C116 Plnm (G.ESE20)" = SPACE
  7.
                 = 9.17
  HEIGHT
                 = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
                = "EL1 Space Polygon 2"
  POLYGON
  LOCATION = FLOOR-V12
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                = TOP
  LOCATION
  . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
  Ζ
                 = 9.17
                = 2.83
  HEIGHT
  SHAPE
                = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
                = "EL1 Space Polygon 3"
  POLYGON
  LOCATION
                = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
```

```
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
  Х
                  = 92.75
  Y
                 = 56.45
  Ζ
                 = 9.17
  AZIMUTH
                = 180
  HEIGHT
                 = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
               = "EL1 Space Polygon 4"
  . .
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 \text{ Plnm} (G.E21)"
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
                = "C110 Plnm (G.S23)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V4
  . .
```

```
"C110 Plnm (G.S23)" = SPACE
  Х
                 = 92.75
  Y
                  = 42.75
  7.
                 = 9.17
  AZIMUTH
                 = -90
  HEIGHT
                 = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C112 C113 Plnm (G.C24)" = SPACE
  Х
                  = 71.25
  Y
                 = 42.75
  Ζ
                 = 9.17
  HEIGHT
                 = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
```

```
POLYGON = "EL1 Space Polygon 6"
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C109 Plnm (G.S25)" = SPACE
  7.
                 = 9.17
  HEIGHT
                = 2.83
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
              = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON
                = "EL1 Space Polygon 7"
  LOCATION = FLOOR-V7
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                = SPACE-V3
  SHADING-SURFACE = YES
  . .
```

```
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"C108 Plnm (G.WSW26)" = SPACE
  7.
                 = 9.17
  HEIGHT
                = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
  POLYGON
               = "EL1 Space Polygon 8"
  LOCATION = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V7
  SHADING-SURFACE = YES
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
  NEXT-TO = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.I68)" = INTERIOR-WALL
  NEXT-TO
                = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V5
  . .
"C106 Plnm (G.W27)" = SPACE
                 = 71.25
  Х
  Y
                 = 18.5
  7.
                 = 9.17
                = -90
  AZIMUTH
                = 2.83
  HEIGHT
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON = "EL1 Space Polygon 9"
  . .
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
            = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                 = 61.1
  Y
                 = 25
  Ζ
                 = 9.17
  HEIGHT
                = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 10"
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V3
  . .
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C105 Plnm (G.W29)" = SPACE
  Х
                 = 61.1
  Y
                 = 18.5
  Ζ
                 = 9.17
  AZIMUTH
                 = -90
  HEIGHT
                = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
```

```
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
   . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
   . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
   . .
"minifoyer Plnm (G.C30)" = SPACE
                   = 60.8
  Х
   Y
                   = 34
  7.
                  = 9.17
               = 2.83
  HEIGHT
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
   . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO
                  = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C103 Plnm (G.C31)" = SPACE
  Х
                  = 41.25
  Y
                  = 25.75
  Ζ
                  = 9.17
  HEIGHT
                 = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
  . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C104 Plnm (G.WNW32)" = SPACE
  Ζ
                  = 9.17
  HEIGHT
                 = 2.83
  SHAPE = POLYGON
```

```
ZONE-TYPE = UNCONDITIONED
                = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-SCHEDULE
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
  . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION
               = "EL1 EWall Construction"
  LOCATION = SPACE - V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.WNW32.I82)" = INTERIOR-WALL
                = "C105 Plnm (G.W29)"
  NEXT-TO
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.I83)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
  CONSTRUCTION = "EL1 IWall Construction"
                = SPACE-V4
  LOCATION
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO
                = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  Ζ
                 = 9.17
  HEIGHT
                = 2.83
  SHAPE
                = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
```

```
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
                = "EL1 Space Polygon 15"
  POLYGON
  LOCATION = FLOOR-V1
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                 = TOP
  LOCATION
  . .
"EL1 East Wall (G.NW33.185)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
  Х
                  = 31.25
  Y
                 = 50.5
  Ζ
                 = 9.17
  AZIMUTH
                 = 90
  HEIGHT
                 = 2.83
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON
               = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
```

```
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"EL1 East Wall (G.N34.I86)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                   = SPACE-V4
   . .
"C102 Plnm (G.C35)" = SPACE
                   = 41.25
   Х
  Y
                   = 34
  Ζ
                   = 9.17
  HEIGHT
                   = 2.83
  SHAPE
  ZONE-TYPE
                   = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 17"
  . .
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                   = TOP
   . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C115 Plnm (G.E36)" = SPACE
   Ζ
                   = 9.17
  HEIGHT
                   = 2.83
  SHAPE
                   = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON = "EL1 Space Polygon 18"
LOCATION = FLOOR-V11
   . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
             = "C116 Plnm (G.ESE20)"
  NEXT-TO
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
                 = "C117 Plnm (G.NE19)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V7
  . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
  NEXT-TO = "C114 \text{ Plnm} (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V9
```
..

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```
"C117 Plnm (G.NE19)" = SPACE
  Ζ
                 = 10
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON
                 = "EL1 Space Polygon 1"
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  I.OCATION = SPACE - V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
                 = SPACE-V4
  LOCATION
  . .
"C116 Plnm (G.ESE20)" = SPACE
  Ζ
                 = 10
                 = 2
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
```

```
POLYGON
                 = "EL1 Space Polygon 2"
  POLYGON = "EL1 Space
LOCATION = FLOOR-V12
   . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V2
  SHADING-SURFACE = YES
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
  Ζ
                  = 10
  HEIGHT
                  = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
                 = "EL1 Space Polygon 3"
  POLYGON
  LOCATION = FLOOR-V10
  . .
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
```

```
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
               = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
  Х
                = 92.75
                 = 56.45
  Y
  Z
                = 10
  AZIMUTH
                = 180
  HEIGHT
                = 2
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON = "EL1 Space Polygon 4"
  . .
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
                = "C114 Plnm (G.E21)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
             = SPACE-V1
  . .
```

```
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
               = "C110 Plnm (G.S23)"
  NEXT-TO
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                 = 92.75
  Y
                 = 42.75
  Ζ
                 = 10
  AZIMUTH
                = -90
  HEIGHT
                 = 2
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
                = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
                = "C108 Plnm (G.WSW26)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
              = SPACE-V4
  . .
```

```
"C112 C113 Plnm (G.C24)" = SPACE
                  = 71.25
  Х
   Y
                    = 42.75
  7.
                   = 10
  HEIGHT
                   = 2
  SHAPE
                   = POLYGON
  ZONE-TYPE=UNCONDITIONEDINF-SCHEDULE="ZGO-S1 (PSZ) C-Inf Sch"INF-METHOD=AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 6"
  ..
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
CONSTRUCTION = "EL1 IWall Construct
                  = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                   = SPACE-V4
   . .
"C109 Plnm (G.S25)" = SPACE
   Ζ
                   = 10
                   = 2
  HEIGHT
  SHAPE
                   = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                   = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON
                = "EL1 Space Polygon 7"
  LOCATION = FLOOR-V7
   . .
```

```
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
                 = SPACE-V1
  LOCATION
  SHADING-SURFACE = YES
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"C108 Plnm (G.WSW26)" = SPACE
  Ζ
                 = 10
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE
                 = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00661424
  POLYGON
                 = "EL1 Space Polygon 8"
  LOCATION = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
```

```
LOCATION = SPACE-V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
  NEXT-TO
                = "C109 Plnm (G.S25)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.168)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V5
  . .
"C106 Plnm (G.W27)" = SPACE
  Х
                 = 71.25
  Y
                 = 18.5
  Ζ
                 = 10
  AZIMUTH
                 = -90
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
  POLYGON
                = "EL1 Space Polygon 9"
  ••
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
```

```
LOCATION = SPACE-V1
  . .
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO
                  = "C107 Plnm (G.C28)"
  CONSTRUCTION
                 = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                  = 61.1
  Y
                  = 25
  Ζ
                  = 10
  HEIGHT
                  = 2
                  = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 10"
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
                  = TOP
  LOCATION
   . .
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
   . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
```

```
"C105 Plnm (G.W29)" = SPACE
                  = 61.1
  Х
  Y
                 = 18.5
  Z
                 = 10
  AZIMUTH
                 = -90
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
  . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V2
  . .
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"minifoyer Plnm (G.C30)" = SPACE
                 = 60.8
  Х
  Y
                 = 34
  Z
                 = 10
  HEIGHT
                 = 2
                 = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
```

```
INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
   . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V3
  . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V4
   . .
"C103 Plnm (G.C31)" = SPACE
  Х
                   = 41.25
  Y
                  = 25.75
  Ζ
                  = 10
  HEIGHT
                  = 2
  SHAPE
                  = POLYGON
  SHAPE= POLIGONZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) C-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 13"
   . .
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
LOCATION = TOP
   . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
```

```
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C104 Plnm (G.WNW32)" = SPACE
  7.
                 = 10
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
   . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 South Wall (G.WNW32.I82)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
   . .
"EL1 East Wall (G.WNW32.183)" = INTERIOR-WALL
  NEXT-TO = "C103 Plnm (G.C31)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
```

```
NEXT-TO
                = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
             = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  Ζ
                 = 10
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
                = "EL1 Space Polygon 15"
  POLYGON
  LOCATION = FLOOR-V1
  . .
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
"EL1 East Wall (G.NW33.185)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
                 = 31.25
  Х
  Y
                 = 50.5
  Ζ
                 = 10
                 = 90
  AZIMUTH
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
```

```
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.N34.I86)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C102 Plnm (G.C35)" = SPACE
                 = 41.25
  Х
  Y
                  = 34
                 = 10
  7.
  HEIGHT
                 = 2
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
               = AIR-CHANGE
  INF-METHOD
  INF-FLOW/AREA = 0.001
                = "EL1 Space Polygon 17"
  POLYGON
  . .
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C115 Plnm (G.E36)" = SPACE
  Ζ
                 = 10
```

```
HEIGHT
                 = 2
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
                 = "EL1 Space Polygon 18"
  POLYGON
  LOCATION
             = FLOOR-V11
   . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
                 = "C116 Plnm (G.ESE20)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                  = SPACE-V3
   . .
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.\text{NE19})"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
   . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V7
```

```
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
NEXT-TO = "C114 Plnm (G.E21)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V8
...
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
NEXT-TO = "C114 Plnm (G.E21)"
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V9
...
```

I.2.11 Participant 845

. .

I.2.12 Participant 913

```
"C117 Plnm (G.NE19)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0172629
  POLYGON = "EL1 Space Polygon 1"
  LOCATION = FLOOR-V15
  . .
"EL1 East Wall (G.NE19.E25)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NE19.E26)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.NE19.E27)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
```

```
"EL1 West Wall (G.NE19.I57)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V4
  . .
"C116 Plnm (G.ESE20)" = SPACE
  7.
           = 9
                 = 3
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.0182153
  POLYGON = "EL1 Space Polygon 2"
  LOCATION = FLOOR-V12
   . .
"EL1 South Wall (G.ESE20.E28)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 East Wall (G.ESE20.E29)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V2
  SHADING-SURFACE = YES
"EL1 North Wall (G.ESE20.E30)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
"EL1 Roof (G.ESE20.E31)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
   . .
"EL1 North Wall (G.ESE20.I58)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"C114 Plnm (G.E21)" = SPACE
```

```
Ζ
                   = 9
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  SHAPEI GLIZONE-TYPE= UNCONDITIONEDINF-SCHEDULE= "ZGO-S1 (PSZ) P-Inf Sch"INF-METHOD= AIR-CHANGE
  INF-FLOW/AREA = 0.0222597
  POLYGON = "EL1 Space Polygon 3"
  LOCATION = FLOOR-V10
"EL1 North Wall (G.E21.E32)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.E21.E33)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
   . .
"EL1 East Wall (G.E21.E34)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E21.E35)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"C111 Plnm (G.S22)" = SPACE
  Х
                   = 92.75
  Y
                  = 56.45
                   = 9
  7.
  AZIMUTH
                 = 180
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
                  = "EL1 Space Polygon 4"
   . .
```

```
"EL1 South Wall (G.S22.E36)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                = SPACE-V5
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.S22.E37)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.S22.I59)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V1
  . .
"EL1 North Wall (G.S22.I60)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 West Wall (G.S22.I61)" = INTERIOR-WALL
  NEXT-TO = "C110 Plnm (G.S23)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C110 Plnm (G.S23)" = SPACE
  Х
                  = 92.75
  Y
                 = 42.75
  Z
                 = 9
  AZIMUTH
                = -90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE
               = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.019
  POLYGON
               = "EL1 Space Polygon 5"
  . .
"EL1 South Wall (G.S23.E38)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
```

```
"EL1 Roof (G.S23.E39)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
             = TOP
  . .
"EL1 North Wall (G.S23.I62)" = INTERIOR-WALL
  NEXT-TO = "C112 C113 Plnm (G.C24)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"EL1 West Wall (G.S23.I63)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C112 C113 Plnm (G.C24)" = SPACE
  Х
                 = 71.25
  Y
                  = 42.75
                  = 9
  7.
  HEIGHT
                 = 3
                 = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON
                = "EL1 Space Polygon 6"
  . .
"EL1 Roof (G.C24.E40)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 West Wall (G.C24.I64)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
"EL1 East Wall (G.C24.I65)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C24.I66)" = INTERIOR-WALL
                  = "minifoyer Plnm (G.C30)"
  NEXT-TO
```

```
CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C109 Plnm (G.S25)" = SPACE
   Ζ
                  = 9
  HEIGHT
                  = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.021043
  POLYGON = "EL1 Space Polygon 7"
LOCATION = FLOOR-V7
   . .
"EL1 East Wall (G.S25.E41)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 West Wall (G.S25.E42)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V3
  SHADING-SURFACE = YES
"EL1 South Wall (G.S25.E43)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                  = SPACE-V4
   SHADING-SURFACE = YES
   . .
"EL1 Roof (G.S25.E44)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                  = TOP
   . .
"C108 Plnm (G.WSW26)" = SPACE
   Ζ
                   = 9
                  = 3
  HEIGHT
                   = POLYGON
  SHAPE
   ZONE-TYPE
                  = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
   INF-FLOW/AREA = 0.00661424
                = "EL1 Space Polygon 8"
  POLYGON
```

```
LOCATION = FLOOR-V4
  . .
"EL1 South Wall (G.WSW26.E45)" = EXTERIOR-WALL
                = "EL1 EWall Construction"
  CONSTRUCTION
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 South Wall (G.WSW26.E46)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V3
  SHADING-SURFACE = YES
  . .
"EL1 West Wall (G.WSW26.E47)" = EXTERIOR-WALL
  CONSTRUCTION
                = "EL1 EWall Construction"
  LOCATION = SPACE - V7
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.WSW26.E48)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.WSW26.I67)" = INTERIOR-WALL
                 = "C109 Plnm (G.S25)"
  NEXT-TO
  CONSTRUCTION
                = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.WSW26.168)" = INTERIOR-WALL
  NEXT-TO
                  = "minifoyer Plnm (G.C30)"
  CONSTRUCTION
                = "EL1 IWall Construction"
                 = SPACE-V5
  LOCATION
  . .
"C106 Plnm (G.W27)" = SPACE
                 = 71.25
  Х
  Y
                  = 18.5
  Ζ
                 = 9
                 = -90
  AZIMUTH
                 = 3
  HEIGHT
  SHAPE
                 = POLYGON
  ZONE-TYPE
                = UNCONDITIONED
  INF-SCHEDULE
                = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
              = AIR-CHANGE
  INF-FLOW/AREA = 0.0175385
```

```
POLYGON = "EL1 Space Polygon 9"
  . .
"EL1 West Wall (G.W27.E49)" = EXTERIOR-WALL
  CONSTRUCTION
               = "EL1 EWall Construction"
  LOCATION
                = SPACE-V4
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.W27.E50)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.W27.I69)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V1
"EL1 East Wall (G.W27.I70)" = INTERIOR-WALL
  NEXT-TO = "C107 Plnm (G.C28)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
  . .
"EL1 North Wall (G.W27.I71)" = INTERIOR-WALL
  NEXT-TO
                = "C105 Plnm (G.W29)"
  CONSTRUCTION
               = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"C107 Plnm (G.C28)" = SPACE
  Х
                 = 61.1
  Y
                = 25
  7.
                 = 9
  HEIGHT
                = 3
  SHAPE
                = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.001
                = "EL1 Space Polygon 10"
  POLYGON
  . .
"EL1 Roof (G.C28.E51)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                = TOP
  . .
```

```
"EL1 South Wall (G.C28.I72)" = INTERIOR-WALL
  NEXT-TO = "C108 Plnm (G.WSW26)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.C28.I73)" = INTERIOR-WALL
  NEXT-TO = "minifoyer Plnm (G.C30)"
                 = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V3
"EL1 North Wall (G.C28.I74)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C105 Plnm (G.W29)" = SPACE
                 = 61.1
  Х
  Y
                  = 18.5
  7.
                  = 9
  AZIMUTH
                 = -90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.00735484
  POLYGON = "EL1 Space Polygon 11"
  . .
"EL1 West Wall (G.W29.E52)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V5
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.W29.E53)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.W29.I75)" = INTERIOR-WALL
                 = "minifoyer Plnm (G.C30)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
              = SPACE-V2
  LOCATION
  . .
```

```
"EL1 East Wall (G.W29.I76)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
   . .
"minifoyer Plnm (G.C30)" = SPACE
   Х
                    = 60.8
  Y
                    = 34
   Z
                    = 9
                   = 3
  HEIGHT
  SHAPE
                   = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
  INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 12"
   . .
"EL1 Roof (G.C30.E54)" = EXTERIOR-WALL
   CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 East Wall (G.C30.I77)" = INTERIOR-WALL
  NEXT-TO = "C115 Plnm (G.E36)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
   . .
"EL1 North Wall (G.C30.I78)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
              = SPACE-V4
   . .
"C103 Plnm (G.C31)" = SPACE
  Х
                   = 41.25
   Y
                    = 25.75
   Ζ
                   = 9
  HEIGHT
                   = 3
                   = POLYGON
   SHAPE
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
   INF-FLOW/AREA = 0.001
                = "EL1 Space Polygon 13"
  POLYGON
```

```
"EL1 Roof (G.C31.E55)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 South Wall (G.C31.I79)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V2
"EL1 East Wall (G.C31.I80)" = INTERIOR-WALL
  NEXT-TO = "C102 Plnm (G.C35)"
CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V3
  . .
"EL1 North Wall (G.C31.I81)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
   . .
"C104 Plnm (G.WNW32)" = SPACE
                  = 9
  Ζ
  HEIGHT
                 = 3
  SHAPE
                  = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.0218905
  POLYGON
                 = "EL1 Space Polygon 14"
  LOCATION = FLOOR-V2
   . .
"EL1 North Wall (G.WNW32.E56)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
   . .
"EL1 West Wall (G.WNW32.E57)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE - V2
  SHADING-SURFACE = YES
   . .
"EL1 Roof (G.WNW32.E58)" = EXTERIOR-WALL
```

```
CONSTRUCTION = "EL1 Roof Construction"
LOCATION = TOP
   . .
"EL1 South Wall (G.WNW32.182)" = INTERIOR-WALL
  NEXT-TO = "C105 Plnm (G.W29)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V3
  . .
"EL1 East Wall (G.WNW32.I83)" = INTERIOR-WALL
             = "C103 Plnm (G.C31)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
  . .
"EL1 North Wall (G.WNW32.184)" = INTERIOR-WALL
  NEXT-TO = "C101 Plnm (G.NW33)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V5
  . .
"C101 Plnm (G.NW33)" = SPACE
  Ζ
                  = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                 = AIR-CHANGE
  INF-FLOW/AREA = 0.02052
  POLYGON = "EL1 Space Polygon 15"
  LOCATION = FLOOR-V1
"EL1 West Wall (G.NW33.E59)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION
                 = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 North Wall (G.NW33.E60)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V4
  SHADING-SURFACE = YES
"EL1 Roof (G.NW33.E61)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
```

```
"EL1 East Wall (G.NW33.I85)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                 = SPACE-V3
  . .
"C100 Plnm (G.N34)" = SPACE
                 = 31.25
  Х
  Y
                 = 50.5
  7.
                  = 9
  AZIMUTH
                 = 90
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.0114
  POLYGON = "EL1 Space Polygon 16"
  . .
"EL1 North Wall (G.N34.E62)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
"EL1 Roof (G.N34.E63)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION
                 = TOP
  . .
"EL1 East Wall (G.N34.186)" = INTERIOR-WALL
  NEXT-TO = "C117 \text{ Plnm} (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V4
   . .
"C102 Plnm (G.C35)" = SPACE
  Х
                  = 41.25
  Y
                  = 34
  Z
                  = 9
  HEIGHT
                 = 3
                 = POLYGON
  SHAPE
  ZONE-TYPE = UNCONDITIONED
  INF-SCHEDULE = "ZGO-S1 (PSZ) C-Inf Sch"
INF-METHOD = AIR-CHANGE
```

```
INF-FLOW/AREA = 0.001
  POLYGON = "EL1 Space Polygon 17"
  • •
"EL1 Roof (G.C35.E64)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
  . .
"EL1 North Wall (G.C35.I87)" = INTERIOR-WALL
  NEXT-TO = "C100 Plnm (G.N34)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"C115 Plnm (G.E36)" = SPACE
  Ζ
                 = 9
  HEIGHT
                 = 3
  SHAPE
                 = POLYGON
  ZONE-TYPE = UNCONDITIONED
INF-SCHEDULE = "ZGO-S1 (PSZ) P-Inf Sch"
  INF-METHOD
                = AIR-CHANGE
  INF-FLOW/AREA = 0.00511119
  POLYGON = "EL1 Space Polygon 18"
  LOCATION = FLOOR-V11
  . .
"EL1 East Wall (G.E36.E65)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 EWall Construction"
  LOCATION = SPACE-V1
  SHADING-SURFACE = YES
  . .
"EL1 Roof (G.E36.E66)" = EXTERIOR-WALL
  CONSTRUCTION = "EL1 Roof Construction"
  LOCATION = TOP
"EL1 North Wall (G.E36.I88)" = INTERIOR-WALL
  NEXT-TO = "C116 Plnm (G.ESE20)"
  CONSTRUCTION = "EL1 IWall Construction"
LOCATION = SPACE-V2
  . .
"EL1 East Wall (G.E36.I89)" = INTERIOR-WALL
                = "C116 Plnm (G.ESE20)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
             = SPACE-V3
  . .
```

```
"EL1 North Wall (G.E36.I90)" = INTERIOR-WALL
  NEXT-TO = "C117 Plnm (G.NE19)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V4
  . .
"EL1 West Wall (G.E36.I91)" = INTERIOR-WALL
  NEXT-TO
                = "C102 Plnm (G.C35)"
                = "EL1 IWall Construction"
  CONSTRUCTION
  LOCATION = SPACE-V5
  . .
"EL1 South Wall (G.E36.I92)" = INTERIOR-WALL
  NEXT-TO = "C111 Plnm (G.S22)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V7
  . .
"EL1 East Wall (G.E36.I93)" = INTERIOR-WALL
               = "C114 Plnm (G.E21)"
  NEXT-TO
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION = SPACE-V8
  . .
"EL1 South Wall (G.E36.I94)" = INTERIOR-WALL
  NEXT-TO = "C114 Plnm (G.E21)"
  CONSTRUCTION = "EL1 IWall Construction"
  LOCATION
                = SPACE-V9
  . .
```

I.3 HVAC substitution files

I.3.1 Participant 019

```
"ac c4" = SYSTEM
TYPE = PSZ
HEAT-SOURCE = FURNACE
ZONE-HEAT-SOURCE = NONE
BASEBOARD-SOURCE = NONE
SIZING-RATIO = 1.15
MAX-SUPPLY-T = 120
MIN-SUPPLY-T = 55
ECONO-LIMIT-T = 70
ECONO-LOCKOUT = NO
SUPPLY-FLOW = 800
```

```
OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
              = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 13200
  COOLING-EIR = 0.26
  COOL-SH-CAP
                = 12400
  HEATING-CAPACITY = -31900
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 NW Perim Zn (G.NW15)"
"EL1 NW Perim Zn (G.NW15)" = ZONE
          = CONDITIONED
  TYPE
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
        = "C101 Office (G.NW15)"
  SPACE
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C104 Toilet (G.WNW14)"
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 26.6382
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
```

COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch" SIZING-OPTION = ADJUST-LOADS = "C103 Record Storage (G.C13)" SPACE . . "EL1 West Perim Zn (G.W11)" = ZONE TYPE = CONDITIONED FLOW/AREA = 0.5OA-FLOW/PER = 20 DESIGN-HEAT-T = 72HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch" DESIGN-COOL-T = 75 COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch" SIZING-OPTION = ADJUST-LOADS = "C105 Nurse (G.W11)" SPACE . . "ac c1" = SYSTEM TYPE = PSZ HEAT-SOURCE = FURNACE ZONE-HEAT-SOURCE = NONE BASEBOARD-SOURCE = NONE SIZING-RATIO = 1.15 MAX-SUPPLY-T = 120 MIN-SUPPLY-T = 55 ECONO-LIMIT-T = 70 ECONO-LOCKOUT = NO SUPPLY-FLOW = 1400 OA-CONTROL = OA-TEMP FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch" SUPPLY-STATIC = 0.8 SUPPLY-EFF = 0.53 RETURN-EFF = 0.53COOLING-CAPACITY = 32500 COOLING-EIR = 0.23COOL-SH-CAP = 30900HEATING-CAPACITY = -48000FURNACE-AUX = 0FURNACE-HIR = 1.24069CONTROL-ZONE = "EL1 Core Zn (G.C17)" . . "EL1 Core Zn (G.C17)" = ZONE TYPE = CONDITIONED FLOW/AREA = 0.5

```
OA-FLOW/PER = 26.6382
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C102 Reception (G.C17)"
  SPACE
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
               = CONDITIONED
  TYPE
                = 0.5
  FLOW/AREA
  OA-FLOW/PER = 26.6382
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C100 Lobby (G.N16)"
  SPACE
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 26.6382
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C115 Foyer (G.E18)"
  SPACE
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
```

```
TYPE
                = CONDITIONED
  FLOW/AREA
               = 0.5
                = 20
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C111 Custodian(G.S4)"
  SPACE
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
               = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
        = "C112 C113 Toilets (G.C6)"
  SPACE
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
          = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
        = "C110 Riser (G.S5)"
  . .
"ac c3" = SYSTEM
                = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 800
  OA-CONTROL
               = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
```

```
SUPPLY-EFF = 0.53
RETURN-EFF = 0.53
  COOLING-CAPACITY = 21400
  COOLING-EIR = 0.26
  COOL-SH-CAP
                = 19800
  HEATING-CAPACITY = -50500
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 NE Perim Zn (G.NE1)"
"EL1 NE Perim Zn (G.NE1)" = ZONE
        = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER = 26.6382
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
        = "C117 Conference (G.NE1)"
  SPACE
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C116 Principal (G.ESE2)"
"EL1 East Perim Zn (G.E3)" = ZONE
         = CONDITIONED
  TYPE
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C114 Multiuse Office (G.E3)"
  SPACE
```

```
"split 1" = SYSTEM
                 = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW= 425OA-CONTROL= OA-TEMPFAN-SCHEDULE= "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 18000
  COOLING-EIR = 0.24
  FURNACE-AUX = 0
                = 1.24069
  FURNACE-HIR
  CONTROL-ZONE = "EL1 Core Zn (G.C10)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
        = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 26.6382
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C107 Data (G.C10)"
  . .
"split 2" = SYSTEM
           = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
```

```
ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
                = 425
  SUPPLY-FLOW
               = OA-TEMP
  OA-CONTROL
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
               = 0.53
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 18000
  COOLING-EIR = 0.24
                = 0
  FURNACE-AUX
  FURNACE-HIR = 1.24069
CONTROL-ZONE = "EL1 West Perim Zn (G.W9)"
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C106 Elec (G.W9)"
  . .
"ac c2" = SYSTEM
                = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
               = 1600
  SUPPLY-FLOW
  OA-CONTROL
                = OA-TEMP
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 41000
```
```
COOLING-EIR = 0.22
COOL-SH-CAP = 37200
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 WSW Perim Zn (G.WSW8)"
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                 = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C108 Staff Lounge (G.WSW8)"
  SPACE
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
                 = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                 = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C109 Workroom (G.S7)"
  . .
```

I.3.2 Participant 027

```
"EL1 Sys1 (PSZ) (G.C6)" = SYSTEM
TYPE = PSZ
HEAT-SOURCE = FURNACE
ZONE-HEAT-SOURCE = NONE
BASEBOARD-SOURCE = NONE
RETURN-AIR-PATH = PLENUM-ZONES
MAX-SUPPLY-T = 120
MIN-SUPPLY-T = 55
ECONO-LIMIT-T = 70
ECONO-LOCKOUT = YES
```

```
= 933.181
  SUPPLY-FLOW
  OA-CONTROL
                = OA-TEMP
  FAN-SCHEDULE = "027 S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 21596.5
  COOLING-EIR = 0.208674
  HEATING-CAPACITY = -31994.8
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 NE Perim Zn (G.NE1)"
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
                 = CONDITIONED
                = 0.5
  FLOW/AREA
  OA-FLOW/PER = 77.8228
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C117 Conference (G.NE1)"
  SPACE
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
  TYPE.
                 = PLENUM
  DESIGN-HEAT-T = 69
  DESIGN-COOL-T = 78
  SIZING-OPTION = ADJUST-LOADS
                = "C117 Plnm (G.NE19)"
  SPACE
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 77.8228
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C116 Principal (G.ESE2)"
  . .
```

```
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
                = PLENUM
  TYPE
  DESIGN-HEAT-T = 69
  DESIGN-COOL-T = 78
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C116 Plnm (G.ESE20)"
  . .
"EL1 Sys1 (PSZ) (G.C7)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  RETURN-AIR-PATH = PLENUM-ZONES
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  SUPPLY-FLOW = 466.819
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "027 S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF
                 = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 10803.5
  COOLING-EIR = 0.208674
  HEATING-CAPACITY = -16005.2
  FURNACE-AUX = 0
  FURNACE-HIR = 1.24069
CONTROL-ZONE = "EL1 East Perim Zn (G.E3)"
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                 = 0.5
  OA-FLOW/PER = 77.8228
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                 = "C114 Multiuse Office (G.E3)"
  SPACE
   . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
```

```
TYPE
                 = PLENUM
  DESIGN-HEAT-T = 69
  DESIGN-COOL-T = 78
  SIZING-OPTION = ADJUST-LOADS
  SPACE
           = "C114 Plnm (G.E21)"
  . .
"EL1 Sys2 (PSZ) (G.C5)" = SYSTEM
  TYPE
           = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  SUPPLY-FLOW = 1600
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "027 S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF = 0.53
RETURN-EFF = 0.53
  COOLING-CAPACITY = 32400
  COOLING-EIR = 0.208674
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
  FURNACE-HIR = 1.24069
  CONTROL-ZONE = "EL1 Core Zn (G.C17)"
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 40.4825
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C102 Reception (G.C17)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
        = UNCONDITIONED
  DESIGN-HEAT-T = 67
```

```
DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C102 Plnm (G.C35)"
  SPACE
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
         = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 40.4825
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C111 Custodian(G.S4)"
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C111 Plnm (G.S22)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 40.4825
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C110 Riser (G.S5)"
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "C110 Plnm (G.S23)"
  SPACE
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
                = CONDITIONED
```

```
= 0.5
= 40.4825
  FLOW/AREA
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C112 C113 Toilets (G.C6)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C112 C113 Plnm (G.C24)"
  SPACE
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 40.4825
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "minifoyer Plnm (G.C30)"
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 40.4825
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE = "C100 Lobby (G.N16)"
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
           = "C100 Plnm (G.N34)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 40.4825
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C115 Foyer (G.E18)"
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C115 Plnm (G.E36)"
  . .
"EL1 Sys3 (PSZ) (G.C4)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  SUPPLY-FLOW = 800
  OA-CONTROL = FIXED
FAN-SCHEDULE = "027 S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.6
  SUPPLY-EFF = 0.53
```

```
RETURN-EFF = 0.53
  COOLING-CAPACITY = 21600
  COOLING-EIR = 0.250735
  HEATING-CAPACITY = -50500
  FURNACE-AUX = 0
  FURNACE-HIR
               = 1.24069
  CONTROL-ZONE = "EL1 WSW Perim Zn (G.WSW8)"
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 32.49
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C109 Workroom (G.S7)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S25)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "C109 Plnm (G.S25)"
  SPACE
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 32.49
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C108 Staff Lounge (G.WSW8)"
  SPACE
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
```

```
SPACE
                = "C108 Plnm (G.WSW26)"
  . .
"EL1 Sys4 (PSZ) (G.C1)" = SYSTEM
  TYPE
                  = PSZ
  HEAT-SOURCE
                = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
               = 600
  SUPPLY-FLOW
                = FIXED
  OA-CONTROL
  FAN-SCHEDULE = "027 S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.6
  SUPPLY-EFF
                = 0.53
  RETURN-EFF
              = 0.53
  COOLING-CAPACITY = 13200
  COOLING-EIR = 0.250735
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 NW Perim Zn (G.NW15)"
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPF.
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 44.8604
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C101 Office (G.NW15)"
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C101 Plnm (G.NW33)"
  . .
```

```
"EL1 West Perim Zn (G.W11)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 44.8604
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C105 Nurse (G.W11)"
  SPACE
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C105 Plnm (G.W29)"
  SPACE
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                = CONDITIONED
               = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 44.8604
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C103 Record Storage (G.C13)"
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
        = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C103 Plnm (G.C31)"
  SPACE
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
  TYPE
               = CONDITIONED
  FLOW/AREA = 0.5OA-FLOW/PER = 44.8604
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
```

```
DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C104 Toilet (G.WNW14)"
  SPACE
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
  TYPE.
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C104 Plnm (G.WNW32)"
  SPACE
  . .
"EL1 Sys5 (PSZ) (G.C3)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                 = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  SUPPLY-FLOW= 2280OA-CONTROL= FIXEDFAN-SCHEDULE= "027 S5 Sys5 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF = 0.53
  RETURN-EFF
                 = 0.53
  COOLING-CAPACITY = 50400
  COOLING-EIR = 0.211988
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
                = 1.24069
  FURNACE-HIR
  CONTROL-ZONE = "EL1 Core Zn (G.C10)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                 = 12759.9
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE = "C107 Data (G.C10)"
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
            = "C107 Plnm (G.C28)"
  SPACE
  . .
"EL1 Sys6 (PSZ) (G.C2)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  SUPPLY-FLOW = 2100
OA-CONTROL = FIXED
  FAN-SCHEDULE = "027 S5 Sys5 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 49200
  COOLING-EIR = 0.211988
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
  FURNACE-HIR
               = 1.24069
  CONTROL-ZONE = "EL1 West Perim Zn (G.W9)"
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 16879.3
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "027 Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "027 Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C106 Elec (G.W9)"
  SPACE
```

```
"EL1 West Perim Pl Zn (G.W27)" = ZONE
TYPE = UNCONDITIONED
DESIGN-HEAT-T = 67
DESIGN-COOL-T = 80
SIZING-OPTION = ADJUST-LOADS
SPACE = "C106 Plnm (G.W27)"
```

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. .

```
"SAC-C1 Sys (PSZ) (G.C3)" = SYSTEM
  TYPE
                 = PSZ
                  = NONE
  HEAT-SOURCE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 425
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
                = 0.53
  SUPPLY-EFF
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 18000
  COOLING-EIR = 0.34565
  FURNACE-AUX = 0
  FURNACE-HIR = 1.24067
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 Core Zn (G.C10)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                 = 0.5
  OA-FLOW/PER = 74.1219
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
```

```
SPACE
                = "C107 Data (G.C10)"
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C107 Plnm (G.C28)"
  . .
"AC-C4 Sys (PSZ) (G.WNW1)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 600
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                 = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 13200
  COOLING-EIR = 0.2122
  COOL-SH-CAP = 12400
  HEATING-CAPACITY = -60000
  FURNACE-HIR = 1.88
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 NW Perim Zn (G.NW15)"
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                 = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C105 Nurse (G.W11)"
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
```

```
TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C105 Plnm (G.W29)"
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C103 Plnm (G.C31)"
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
        = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C104 Toilet (G.WNW14)"
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C104 Plnm (G.WNW32)"
  SPACE
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
                = CONDITIONED
```

```
= 0.5
  FLOW/AREA
               = 2.093
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C101 Office (G.NW15)"
  SPACE
  . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
             = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C101 Plnm (G.NW33)"
  . .
"SAC-C2 Sys (PSZ) (G.W2)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = NONE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
               = 425
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
RETURN-EFF = 0.53
  COOLING-CAPACITY = 18000
  COOLING-EIR = 0.34565
  FURNACE-HIR
                = 1.24067
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 West Perim Zn (G.W9)"
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C106 Elec (G.W9)"
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C106 Plnm (G.W27)"
  . .
"AC-C2 Sys (PSZ) (G.SW4)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                = 1600
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
               = 0.53
  SUPPLY-EFF
  RETURN-EFF
                 = 0.53
  COOLING-CAPACITY = 41000
  COOLING-EIR = 0.1786
  COOL-SH-CAP
                = 37200
  HEATING-CAPACITY = -60000
  FURNACE-HIR = 1.24067
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 WSW Perim Zn (G.WSW8)"
"EL1 South Perim Zn (G.S7)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
                = 2.093
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C109 Workroom (G.S7)"
  . .
```

```
"EL1 South Perim Pl Zn (G.S25)" = ZONE
  TYPE
            = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C109 Plnm (G.S25)"
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C108 Staff Lounge (G.WSW8)"
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
        = "C108 Plnm (G.WSW26)"
  SPACE
  . .
"Storage (PSZ) (G.S5)" = SYSTEM
  TYPE
                  = PS7.
  HEAT-SOURCE
                = NONE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                = 10
  OA-CONTROL
                = OA - TEMP
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
                = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 0
  COOLING-EIR = 0.34565
  FURNACE-HIR = 1.24067
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
```

```
CONTROL-ZONE = "EL1 South Perim Zn (G.S5)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C110 Riser (G.S5)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
            = "C110 Plnm (G.S23)"
  SPACE
  . .
"EF C1 C2 C3 Sys (PSZ) (G.S6)" = SYSTEM
  TYPE
           = FNSYS1
  HEAT-SOURCE = NONE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 800
OA-CONTROL = OA-TEMP
  NATURAL-VENT-SCH = "S1 Sys1 (PSZ) Fan Sch"
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 0
  COOLING-EIR = 0.34565
  FURNACE-HIR = 1.24067
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
```

```
OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C112 C113 Toilets (G.C6)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C112 C113 Plnm (G.C24)"
  SPACE
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
        = "C111 Custodian(G.S4)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
                 = UNCONDITIONED
  TYPE.
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C111 Plnm (G.S22)"
  SPACE
  . .
"AC-C3 Sys1 (PSZ) (G.ENE7)" = SYSTEM
  TYPE
                  = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
               = 800
  OA-CONTROL
               = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
```

```
SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 21400
  COOLING-EIR = 0.2122
  COOL-SH-CAP = 19800
  HEATING-CAPACITY = -64000
  FURNACE-HIR = 1.25
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 NE Perim Zn (G.NE1)"
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C117 Conference (G.NE1)"
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C117 Plnm (G.NE19)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C116 Principal (G.ESE2)"
  SPACE
  . .
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE = "C116 Plnm (G.ESE20)"
  . .
"AC-C3 Sys2 (PSZ) (G.E8)" = SYSTEM
  TYPE
               = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW= 800OA-CONTROL= OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 21400
  COOLING-EIR = 0.2122
  COOL-SH-CAP = 19800
  HEATING-CAPACITY = -64000
  FURNACE-HIR = 1.25
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 East Perim Zn (G.E3)"
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C114 Multiuse Office (G.E3)"
"EL1 East Perim Pl Zn (G.E21)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C114 Plnm (G.E21)"
  . .
```

```
"AC-C1 Sys1 (PSZ) (G.N9)" = SYSTEM
           = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 1400
OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 32500
  COOLING-EIR = 0.1757
  COOL-SH-CAP = 30900
  HEATING-CAPACITY = -60000
  FURNACE-HIR = 1.25
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 Core Zn (G.C17)"
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
           = CONDITIONED
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C102 Reception (G.C17)"
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C102 Plnm (G.C35)"
  SPACE
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
```

```
OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C100 Lobby (G.N16)"
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C100 Plnm (G.N34)"
  SPACE
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
        = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
  TYPE.
                 = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "minifoyer Plnm (G.C30)"
  SPACE
  . .
"AC-C1 Sys2 (PSZ) (G.E10)" = SYSTEM
                 = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 1400
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
```

```
SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF
             = 0.53
  COOLING-CAPACITY = 32500
  COOLING-EIR = 0.1757
  COOL-SH-CAP = 30900
  HEATING-CAPACITY = -60000
  FURNACE-HIR = 1.25
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  CONTROL-ZONE = "EL1 East Perim Zn (G.E18)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
               = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 2.093
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C115 Foyer (G.E18)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
        = "C115 Plnm (G.E36)"
  . .
```

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```
"East System" = SYSTEM
TYPE = PSZ
HEAT-SOURCE = FURNACE
BASEBOARD-SOURCE = NONE
SIZING-RATIO = 1.15
MAX-SUPPLY-T = 120
MIN-SUPPLY-T = 55
ECONO-LIMIT-T = 70
ECONO-LOCKOUT = NO
OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
```

```
FAN-CONTROL = FAN-EIR-FPLR
  SUPPLY-STATIC = 1
               = 0.53
  SUPPLY-EFF
  RETURN-EFF = 0.53
  FAN-EIR-FPLR = "ForCurve w Dischrg Dampers FPLR"
COOLING-EIR = 0.252712
FURNACE-AUX = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 East Perim Zn (G.E18)"
"EL1 East Perim Zn (G.E18)" = ZONE
         = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C115 Foyer (G.E18)"
  SPACE
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
           = CONDITIONED
  MIN-FLOW-RATIO = 1
                = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C114 Multiuse Office (G.E3)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
```

```
COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C116 Principal (G.ESE2)"
  SPACE
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C117 Conference (G.NE1)"
  SPACE
  . .
"South System" = SYSTEM
                = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
FAN-CONTROL = FAN-EIR-FPLR
  SUPPLY-STATIC = 1
               = 0.53
  SUPPLY-EFF
  RETURN-EFF = 0.53
  FAN-EIR-FPLR
                = "ForCurve w Dischrg Dampers FPLR"
  COOLING-EIR
                = 0.252712
  FURNACE-AUX
                = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 WSW Perim Zn (G.WSW8)"
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
                 = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 28.3529
```

```
DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C108 Staff Lounge (G.WSW8)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
                = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
                = 0.5
  FLOW/AREA
  OA-FLOW/PER = 28.3529
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C110 Riser (G.S5)"
  SPACE
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
           = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
               = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 28.3529
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C111 Custodian(G.S4)"
  SPACE
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
                = 20
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C109 Workroom (G.S7)"
  SPACE
```

. .

```
"EL1 South Perim Pl Zn (G.S25)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C109 Plnm (G.S25)"
  SPACE
  . .
"West System" = SYSTEM
  TYPE
                  = PSZ
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                 = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
FAN-CONTROL = FAN-EIR-FPLR
  SUPPLY-STATIC = 1
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
  FAN-EIR-FPLR = "ForCurve w Dischrg Dampers FPLR"
COOLING-EIR = 0.252712
FURNACE-AUX = 0
  FURNACE-HIR
                 = 1.24069
  CONTROL-ZONE = "EL1 Core Zn (G.C10)"
"EL1 Core Zn (G.C10)" = ZONE
  TYPE = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 28.3529
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C107 Data (G.C10)"
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
```

```
TYPE
                  = CONDITIONED
  MIN-FLOW-RATIO = 1
                = 0.5
  FLOW/AREA
  OA-FLOW/PER = 28.3529
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C106 Elec (G.W9)"
  SPACE
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
                = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
               = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 28.3529
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C105 Nurse (G.W11)"
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
         = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 28.3529
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
           = "C104 Toilet (G.WNW14)"
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA = 0.5
OA-FLOW/PER = 28.3529
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
```

DESIGN-COOL-T	=	75
COOL-TEMP-SCH	=	"MajDD Sys1 (PSZ) Cool Sch"
SIZING-OPTION	=	ADJUST-LOADS
SPACE	=	"C103 Record Storage (G.C13)"
•••		C C
"Core System" = SYS	ΓEΝ	1
TYPE	=	PSZ
HEAT-SOURCE	=	FURNACE
BASEBOARD-SOURCE	=	NONE
SIZING-RATIO	=	1.15
MAX-SUPPLY-T	=	120
MIN-SUPPLY-T	=	55
ECONO-LIMIT-T	=	70
ECONO-LOCKOUT	=	NO
OA-CONTROL	=	OA-TEMP
FAN-SCHEDULE	=	"S1 Sys1 (PSZ) Fan Sch"
FAN-CONTROL	=	FAN-EIR-FPLR
SUPPLY-STATIC	=	1
SUPPLY-EFF	=	0.53
RETURN-EFF	=	0.53
FAN-EIR-FPLR	=	"ForCurve w Dischrg Dampers FPLR"
COOLING-EIR	=	0.252712
FURNACE-AUX	=	0
FURNACE-HIR	=	1.24069
CONTROL-ZONE	=	"EL1 Core Zn (G.C17)"
"EL1 Core Zn (G.C17)) "	= ZONE
TYPE	=	CONDITIONED
MIN-FLOW-RATIO	=	1
FLOW/AREA	=	0.5
OA-FLOW/PER	=	20
DESIGN-HEAT-T	=	72
HEAT-TEMP-SCH	=	"MajDD Sys1 (PSZ) Heat Sch"
DESIGN-COOL-T	=	75
COOL-TEMP-SCH	=	"MajDD Sys1 (PSZ) Cool Sch"
SIZING-OPTION	=	ADJUST-LOADS
SPACE	=	"C102 Reception (G.C17)"
••		
"EL1 Core Zn (G.C6)	" =	= ZONE
TYPE	=	CUNDITIONED
MIN-FLOW-RATIO	=	1
FLOW/AREA	=	0.5

```
OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C112 C113 Toilets (G.C6)"
  SPACE
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA = 0.5
               = 20
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
                 = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C100 Lobby (G.N16)"
  SPACE
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
         = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
```

```
= "C101 Office (G.NW15)"
  SPACE
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C117 Plnm (G.NE19)"
  . .
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C116 Plnm (G.ESE20)"
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C114 Plnm (G.E21)"
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C108 Plnm (G.WSW26)"
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C106 Plnm (G.W27)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
```

```
SPACE
                 = "C107 Plnm (G.C28)"
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C105 Plnm (G.W29)"
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C103 Plnm (G.C31)"
  SPACE
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C104 Plnm (G.WNW32)"
  . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C101 Plnm (G.NW33)"
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C111 Plnm (G.S22)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
```

```
SPACE
               = "C110 Plnm (G.S23)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C112 C113 Plnm (G.C24)"
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                  = "minifoyer Plnm (G.C30)"
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C100 Plnm (G.N34)"
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C102 Plnm (G.C35)"
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C115 Plnm (G.E36)"
  SPACE
  . .
```

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```
"AC1" = SYSTEM
TYPE = PMZS
```

```
HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  RETURN-AIR-PATH = DUCT
  DDS-TYPE = SINGLE-FAN
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
               = 1400
= 0A-TEMP
  SUPPLY-FLOW
  OA-CONTROL
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.01
                = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 32500
  COOLING-EIR = 0.225
  COOL-SH-CAP = 30900
  HEATING-CAPACITY = -48000
  FURNACE-AUX
               = 0
  FURNACE-HIR = 1.24069
  OA-SIZING-METHOD = SUM-OF-ZONE-OA
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 20
  OUTSIDE-AIR-FLOW = O
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C100 Lobby (G.N16)"
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C100 Plnm (G.N34)"
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
```
```
TYPE
                 = CONDITIONED
                = 0.5
  FLOW/AREA
                = 20
  OA-FLOW/PER
  EXHAUST-FLOW = 35
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C111 Custodian(G.S4)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C111 Plnm (G.S22)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  EXHAUST-FLOW = 35
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C110 Riser (G.S5)"
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C110 Plnm (G.S23)"
  SPACE
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  EXHAUST-FLOW = 65
```

```
DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
           = "C112 C113 Toilets (G.C6)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C112 C113 Plnm (G.C24)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C115 Foyer (G.E18)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C115 Plnm (G.E36)"
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
        = CONDITIONED
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C102 Reception (G.C17)"
  SPACE
```

. .

```
"EL1 Core Pl Zn (G.C35)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C102 Plnm (G.C35)"
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                 = CONDITIONED
                = 0.5
  FLOW/AREA
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "minifoyer Plnm (G.C30)"
  SPACE
  •••
"AC3" = SYSTEM
  TYPE
                 = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
SUPPLY-FLOW = 800
OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.46
  SUPPLY-EFF = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 21400
```

```
COOLING-EIR = 0.263
COOL-SH-CAP = 19800
  HEATING-CAPACITY = -50500
                = 0
  FURNACE-AUX
  FURNACE-HIR
                = 1.24069
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
          = CONDITIONED
                = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C117 Conference (G.NE1)"
  SPACE
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C117 Plnm (G.NE19)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                  = "C116 Principal (G.ESE2)"
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C116 Plnm (G.ESE20)"
  . .
```

```
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C114 Multiuse Office (G.E3)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "C114 Plnm (G.E21)"
  SPACE
  . .
"AC4" = SYSTEM
  TYPE
                 = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO
                = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
               = 600
= 0A-TEMP
  SUPPLY-FLOW
  OA-CONTROL
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.18
                = 0.53
  SUPPLY-EFF
  RETURN-EFF
                 = 0.53
  COOLING-CAPACITY = 13200
  COOLING-EIR = 0.263
  COOL-SH-CAP = 12400
  HEATING-CAPACITY = -31900
  FURNACE-AUX = 0
  FURNACE-HIR = 1.24069
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
                 = CONDITIONED
```

```
FLOW/AREA = 0.5
                = 20
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C101 Office (G.NW15)"
  . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
  TYPE
         = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C101 Plnm (G.NW33)"
  SPACE
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
        = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER = 20
EXHAUST-FLOW = 100
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C104 Toilet (G.WNW14)"
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C104 Plnm (G.WNW32)"
  SPACE
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
```

```
COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C103 Plnm (G.C31)"
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C105 Nurse (G.W11)"
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
          = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C105 Plnm (G.W29)"
  . .
"CU1/CU2" = SYSTEM
  TYPE = PSZ
  HEAT-SOURCE = NONE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 425
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
```

```
SUPPLY-STATIC = 1.14
  SUPPLY-EFF = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 18000
  COOLING-EIR = 0.242
  COOL-SH-CAP = 17000
  HEATING-CAPACITY = 0
  FURNACE-AUX = 0
  FURNACE-HIR = 1.24069
CONTROL-ZONE = "EL1 Core Zn (G.C10)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C107 Data (G.C10)"
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
           = "C107 Plnm (G.C28)"
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C106 Elec (G.W9)"
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
                = UNCONDITIONED
  TYPE
```

	DESIGN-HEAT-T	=	67
	DESIGN-COOL-T	=	80
	SIZING-OPTION	=	ADJUST-LOADS
	SPACE	=	"C106 Plnm (G.W27)"
"AC2" = SYSTEM			
	TYPE	=	PMZS
	HEAT-SOURCE	=	FURNACE
	BASEBOARD-SOURCE	=	NONE
	SIZING-RATIO	=	1.15
	MAX-SUPPLY-T	=	120
	MIN-SUPPLY-T	=	55
	ECONO-LIMIT-T	=	70
	ECONO-LOCKOUT	=	NO
	SUPPLY-FLOW	=	1600
	OA-CONTROL	=	OA-TEMP
	FAN-SCHEDULE	=	"S1 Sys1 (PSZ) Fan Sch"
	SUPPLY-STATIC	=	1.04
	SUPPLY-EFF	=	0.53
	RETURN-EFF	=	0.53
	COOLING-CAPACITY	=	41000
	COOLING-EIR	=	0.228
	COOL-SH-CAP	=	37200
	HEATING-CAPACITY	=	-48000
	FURNACE-AUX	=	0
	FURNACE-HIR	=	1.24069
"EL1 WSW Perim Zn (G.WSW8)" = ZONE			
	TYPE	=	CONDITIONED
	FLOW/AREA	=	0.5
	OA-FLOW/PER	=	20
	DESIGN-HEAT-T	=	72
	HEAT-TEMP-SCH	=	"MajDD Sys1 (PSZ) Heat Sch"
	DESIGN-COOL-T	=	75
	COOL-TEMP-SCH	=	"MajDD Sys1 (PSZ) Cool Sch"
	SIZING-OPTION	=	ADJUST-LOADS
	SPACE	=	"C108 Staff Lounge (G.WSW8)"
"ELI WSW PERIM PI ZN (G.WSW26)" = ZUNE			
	IYPE	=	UNCUNDITIONED
	DESIGN-HEAT-T	=	6/ 00
	DESIGN-CUUL-I	=	80

```
SIZING-OPTION = ADJUST-LOADS
  SPACE = "C108 Plnm (G.WSW26)"
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
  TYPE = CONDITIONED
FLOW/AREA = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C109 Workroom (G.S7)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S25)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C109 Plnm (G.S25)"
  . .
```

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```
"AC C1" = SYSTEM
   TYPE
                   = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  DDS-TYPE
                  = SINGLE-FAN
  MAX-SUPPLY-T = 120
MIN-SUPPLY-T = 55
   COOL-RESET-SCH = "S1 EL1 Sys1 (PMZS) (G) CRS"
  COOL-CONTROL = RESET
ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
FAN-CONTROL = FAN-EIR-FPLR
   SUPPLY-STATIC = 2.5
   SUPPLY-EFF
                 = 0.53
  RETURN-EFF = 0.53
```

```
FAN-EIR-FPLR
                = "Variable Speed Drive FPLR"
  HSUPPLY-EFF
                = 0.53
                = 0.34565
  COOLING-EIR
  FURNACE-AUX
                = 0
                = 1.24069
  FURNACE-HIR
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
          = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C117 Conference (G.NE1)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
                 = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C116 Principal (G.ESE2)"
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
                = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C114 Multiuse Office (G.E3)"
  . .
```

```
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
                = CONDITIONED
  MIN-FLOW-RATIO = 1
                = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C111 Custodian(G.S4)"
  SPACE
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C110 Riser (G.S5)"
  SPACE
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE.
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
                = 50
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C112 C113 Toilets (G.C6)"
  SPACE
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
  TYPE
                = CONDITIONED
  MIN-FLOW-RATIO = 1
                = 0.5
  FLOW/AREA
  OA-FLOW/PER = 22.1008
  DESIGN-HEAT-T = 72
```

```
HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C109 Workroom (G.S7)"
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
  TYPE
          = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C108 Staff Lounge (G.WSW8)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C107 Data (G.C10)"
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
                = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C106 Elec (G.W9)"
  . .
```

```
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
  TYPE
                = CONDITIONED
  MIN-FLOW-RATIO = 1
               = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C104 Toilet (G.WNW14)"
  SPACE
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 50
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
        = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
  TYPE.
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C105 Nurse (G.W11)"
  SPACE
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 22.1008
  DESIGN-HEAT-T = 72
```

```
HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C101 Office (G.NW15)"
  SPACE
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
               = 0.5
  FLOW/AREA
                = 22.1008
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C102 Reception (G.C17)"
  SPACE
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
                 = CONDITIONED
  TYPE
  MIN-FLOW-RATIO = 1
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C100 Lobby (G.N16)"
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "minifoyer (G.C12)"
  . .
```

```
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
                 = CONDITIONED
  MIN-FLOW-RATIO = 1
                = 0.5
  FLOW/AREA
  OA-FLOW/PER
                = 22.1008
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C115 Foyer (G.E18)"
  SPACE
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C117 Plnm (G.NE19)"
  SPACE
  . .
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
  TYPE
            = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C116 Plnm (G.ESE20)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C114 Plnm (G.E21)"
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C108 Plnm (G.WSW26)"
  SPACE
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
  TYPE
                 = UNCONDITIONED
```

```
DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C106 Plnm (G.W27)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
  TYPE.
                  = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C107 Plnm (G.C28)"
  SPACE
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C105 Plnm (G.W29)"
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C103 Plnm (G.C31)"
  SPACE
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C104 Plnm (G.WNW32)"
   . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C101 Plnm (G.NW33)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
  TYPE
                  = UNCONDITIONED
```

```
DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C111 Plnm (G.S22)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
  TYPF.
                  = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C110 Plnm (G.S23)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C112 C113 Plnm (G.C24)"
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "minifoyer Plnm (G.C30)"
  SPACE
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C100 Plnm (G.N34)"
   . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C102 Plnm (G.C35)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
                  = UNCONDITIONED
  TYPE
```

```
DESIGN-HEAT-T = 67

DESIGN-COOL-T = 80

SIZING-OPTION = ADJUST-LOADS

SPACE = "C115 Plnm (G.E36)"

...

"EL1 South Perim Pl Zn (G.S25)" = ZONE

TYPE = UNCONDITIONED

DESIGN-HEAT-T = 67

DESIGN-COOL-T = 80

SIZING-OPTION = ADJUST-LOADS

SPACE = "C109 Plnm (G.S25)"

...
```

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```
"AC-C4" = SYSTEM
  TYPE
                = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO
                = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW = 600
  MIN-OUTSIDE-AIR = 0.125
  OA-CONTROL
                = FIXED
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.6
  SUPPLY-EFF
                = 0.53
  RETURN-EFF
                = 0.53
  MIN-FAN-RATIO = 1
  COOLING-CAPACITY = 13000
  COOLING-EIR = 0.284
  COOL-SH-CAP = 12000
  HEATING-CAPACITY = -39000
  FURNACE-AUX
               = 0
  FURNACE-HIR = 1.26
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 20
```

```
DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C101 Office (G.NW15)"
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C104 Toilet (G.WNW14)"
"EL1 West Perim Zn (G.W11)" = ZONE
  TYPE = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C105 Nurse (G.W11)"
  SPACE
  . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
                = UNCONDITIONED
  TYPE
```

```
DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C101 Plnm (G.NW33)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
  TYPE.
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C103 Plnm (G.C31)"
  SPACE
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C104 Plnm (G.WNW32)"
  SPACE
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "C105 Plnm (G.W29)"
  SPACE
  . .
"AC-C2" = SYSTEM
  TYPE
                = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                = 1600
  MIN-OUTSIDE-AIR = 0.3
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
```

```
MIN-FAN-RATIO = 1
  COOLING-CAPACITY = 41000
  COOLING-EIR = 0.25
  COOL-SH-CAP = 37000
  HEATING-CAPACITY = -60000
  FURNACE-AUX = 0
  FURNACE-HIR = 1.25
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
               = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 100
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C106 Elec (G.W9)"
  SPACE
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 100
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C107 Data (G.C10)"
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
  TYPE
               = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 30
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C108 Staff Lounge (G.WSW8)"
  SPACE
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
```

```
TYPE
                = CONDITIONED
               = 0.5
  FLOW/AREA
                = 20
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
              = "C109 Workroom (G.S7)"
  SPACE
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
               = 50
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C112 C113 Toilets (G.C6)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
               = CONDITIONED
  TYPE
               = 0.5
  FLOW/AREA
  OA-FLOW/PER
               = 50
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C110 Riser (G.S5)"
"EL1 West Perim Pl Zn (G.W27)" = ZONE
        = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C106 Plnm (G.W27)"
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
  TYPE = UNCONDITIONED
  DESIGN-HEAT-T = 67
```

```
DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C107 Plnm (G.C28)"
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C108 Plnm (G.WSW26)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S25)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C109 Plnm (G.S25)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C112 C113 Plnm (G.C24)"
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C110 Plnm (G.S23)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C111 Plnm (G.S22)"
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
```

```
DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C114 Plnm (G.E21)"
  . .
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C116 Plnm (G.ESE20)"
  SPACE
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "C117 Plnm (G.NE19)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C115 Plnm (G.E36)"
  . .
"AC-C1" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                = 1400
  MIN-OUTSIDE-AIR = 0.3
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 0.8
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
```

```
MIN-FAN-RATIO = 1
  COOLING-CAPACITY = 32500
  COOLING-EIR = 0.25
  COOL-SH-CAP = 31000
  HEATING-CAPACITY = -60000
  FURNACE-AUX = 0
  FURNACE-HIR = 1.28
  CONTROL-ZONE = "EL1 Core Zn (G.C17)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 18.1818
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C115 Foyer (G.E18)"
  SPACE
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 18.1818
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C111 Custodian(G.S4)"
  SPACE
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 15
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C102 Reception (G.C17)"
  . .
```

```
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 15
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C100 Lobby (G.N16)"
  SPACE
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 15
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C102 Plnm (G.C35)"
  SPACE
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
  TYPE = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C100 Plnm (G.N34)"
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
        = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "minifoyer Plnm (G.C30)"
  SPACE
```

. .

```
"AC-C3" = SYSTEM
  LIKE = "AC-C4"
  SUPPLY-FLOW = 800
  MIN-OUTSIDE-AIR = 0.22
  COOLING-CAPACITY = 21000
  COOL-SH-CAP = 19000
  HEATING-CAPACITY = -50000
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C114 Multiuse Office (G.E3)"
  SPACE
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                 = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C116 Principal (G.ESE2)"
  SPACE
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                 = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C117 Conference (G.NE1)"
  . .
```

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```
"Sys1 (PSZ) (G.NNW1)" = SYSTEM
  TYPE
                  = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO
                 = 1.15
  MAX-SUPPLY-T
                 = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
RETURN-EFF = 0.53
  COOLING-CAPACITY = 5259.95
  COOLING-EIR = 0.211988
  FURNACE-AUX
                 = 0
  FURNACE-HIR = 1.24067
CONTROL-ZONE = "EL1 NW Perim Zn (G.NW15)"
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
                  = CONDITIONED
  FLOW/AREA
                 = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                   = "C101 Office (G.NW15)"
  SPACE
   . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
  TYPE
          = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C101 Plnm (G.NW33)"
  SPACE
   . .
"Sys1 (PSZ) (G.WSW2)" = SYSTEM
```

```
TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
                = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 18804.3
  COOLING-EIR = 0.211988
  FURNACE-AUX
                = 0
               = 1.24067
  FURNACE-HIR
  CONTROL-ZONE = "EL1 WSW Perim Zn (G.WSW8)"
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C108 Staff Lounge (G.WSW8)"
  SPACE
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C108 Plnm (G.WSW26)"
  SPACE
  . .
"Sys1 (PSZ) (G.E3)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
```

```
BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
               = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE
               = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
                = 0.53
  RETURN-EFF
  COOLING-CAPACITY = 9829.54
  COOLING-EIR = 0.211988
  FURNACE-AUX
                = 0
  FURNACE-HIR = 1.24067
  CONTROL-ZONE = "EL1 ESE Perim Zn (G.ESE2)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
               = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C116 Principal (G.ESE2)"
  . .
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
            = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C116 Plnm (G.ESE20)"
  SPACE
"Sys1 (PSZ) (G.N4)" = SYSTEM
                = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T = 120
```

```
MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 21039.8
  COOLING-EIR = 0.211988
                = 0
  FURNACE-AUX
  FURNACE-HIR = 1.24067
CONTROL-ZONE = "EL1 Core Zn (G.C17)"
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C102 Reception (G.C17)"
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
        = "C102 Plnm (G.C35)"
  SPACE
"EL1 North Perim Zn (G.N16)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C100 Lobby (G.N16)"
  SPACE
```

. .

```
"EL1 North Perim Pl Zn (G.N34)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C100 Plnm (G.N34)"
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "minifoyer Plnm (G.C30)"
  SPACE
  . .
"Sys1 (PSZ) (G.NE5)" = SYSTEM
  TYPE = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 7824.18
```

```
COOLING-EIR = 0.211988
                = 0
  FURNACE-AUX
  FURNACE-HIR = 1.24067
CONTROL-ZONE = "EL1 NE Perim Zn (G.NE1)"
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C117 Conference (G.NE1)"
  SPACE
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
          = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C117 Plnm (G.NE19)"
  . .
"Sys1 (PSZ) (G.W6)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
                = 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 15779.9
  COOLING-EIR = 0.211988
  FURNACE-AUX
                = 0
  FURNACE-HIR = 1.24067
```

```
CONTROL-ZONE = "EL1 West Perim Zn (G.W11)"
  . .
"EL1 Core Zn (G.C13)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C103 Record Storage (G.C13)"
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
        = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C103 Plnm (G.C31)"
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
               = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C104 Toilet (G.WNW14)"
  SPACE
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
  TYPE
               = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C104 Plnm (G.WNW32)"
  SPACE
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
  TYPE
         = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 23.8515
```

```
DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
              = "C105 Nurse (G.W11)"
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
               = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C105 Plnm (G.W29)"
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
         = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C106 Elec (G.W9)"
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C106 Plnm (G.W27)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
        = CONDITIONED
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C107 Data (G.C10)"
```
```
"EL1 Core Pl Zn (G.C28)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C107 Plnm (G.C28)"
  SPACE
  . .
"Sys1 (PSZ) (G.ESE7)" = SYSTEM
  TYPE
                  = PSZ
                 = FURNACE
  HEAT-SOURCE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                 = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                 = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 10684.3
  COOLING-EIR = 0.211988
  FURNACE-AUX
                = 0
  FURNACE-HIR
                = 1.24067
  CONTROL-ZONE = "EL1 East Perim Zn (G.E3)"
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C114 Multiuse Office (G.E3)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
                 = UNCONDITIONED
  TYPE
```

DESIGN-HEAT-T	=	67
DESIGN-COOL-T	=	80
SIZING-OPTION	=	ADJUST-LOADS
SPACE	=	"C114 Plnm (G.E21)"
"Sys1 (PSZ) (G.S8)"	=	SYSTEM
TYPE	=	PSZ
HEAT-SOURCE	=	FURNACE
ZONE-HEAT-SOURCE	=	NONE
BASEBOARD-SOURCE	=	NONE
SIZING-RATIO	=	1.15
MAX-SUPPLY-T	=	120
MIN-SUPPLY-T	=	55
ECONO-LIMIT-T	=	70
ECONO-LOCKOUT	=	YES
OA-CONTROL	=	OA-TEMP
FAN-SCHEDULE	=	"S1 Sys1 (PSZ) Fan Sch"
SUPPLY-STATIC	=	1.25
SUPPLY-EFF	=	0.53
RETURN-EFF	=	0.53
COOLING-CAPACITY	=	10651.4
COOLING-EIR	=	0.211988
FURNACE-AUX	=	0
FURNACE-HIR	=	1.24067
CONTROL-ZONE	=	"EL1 South Perim Zn (G.S7)"
"EL1 South Perim Zn	((E.S7)" = ZONE
TYPE	=	CONDITIONED
FLOW/AREA	=	0.5
OA-FLOW/PER	=	23.8515
DESIGN-HEAT-T	=	72
HEAT-TEMP-SCH	=	"MajSD GndCor Sys1 Heat Sch"
DESIGN-COOL-T	=	75
COOL-TEMP-SCH	=	"MajSD GndCor Sys1 Cool Sch"
SIZING-OPTION	=	ADJUST-LOADS
SPACE	=	"C109 Workroom (G.S7)"
"EL1 South Perim Pl	Zr	n (G.S25)" = ZONE
TYPE	=	UNCONDITIONED
DESIGN-HEAT-T	=	67
DESIGN-COOL-T	=	80
SIZING-OPTION	=	ADJUST-LOADS

```
SPACE
                = "C109 Plnm (G.S25)"
  . .
"Sys1 (PSZ) (G.S9)" = SYSTEM
  TYPE
                  = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                = 0.53
  RETURN-EFF
              = 0.53
  COOLING-CAPACITY = 4339.46
  COOLING-EIR
               = 0.211988
  FURNACE-AUX
                = 0
  FURNACE-HIR
                = 1.24067
  CONTROL-ZONE = "EL1 Core Zn (G.C6)"
  . .
"EL1 Core Zn (G.C6)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 23.8515
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C112 C113 Toilets (G.C6)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C112 C113 Plnm (G.C24)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
```

```
TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
                = 23.8515
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C110 Riser (G.S5)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C110 Plnm (G.S23)"
  . .
"Sys1 (PSZ) (G.C10)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                 = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = YES
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 3787.17
  COOLING-EIR = 0.211988
  FURNACE-AUX
                 = 0
  FURNACE-HIR = 1.24067
CONTROL-ZONE = "EL1 East Perim Zn (G.E18)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 7.5
```

```
DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C115 Foyer (G.E18)"
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C115 Plnm (G.E36)"
  SPACE
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
         = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 7.5
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C111 Custodian(G.S4)"
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
          = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
        = "C111 Plnm (G.S22)"
  SPACE
  . .
```

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```
"AC-C1" = SYSTEM
TYPE = PMZS
HEAT-SOURCE = FURNACE
BASEBOARD-SOURCE = NONE
SIZING-RATIO = 1.15
MAX-SUPPLY-T = 120
MIN-SUPPLY-T = 55
```

```
ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  RETURN-EFF
               = 0.53
  COOLING-EIR = 0.2245
  FURNACE-AUX
                = 0
  FURNACE-HIR = 1.24069
"EL1 South Perim Zn (G.S4)" = ZONE
        = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C111 Custodian(G.S4)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C110 Riser (G.S5)"
  • •
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
                 = CONDITIONED
  OA-CHANGES
                = 10
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
         = "C112 C113 Toilets (G.C6)"
  SPACE
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C100 Lobby (G.N16)"
  SPACE
```

```
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 22.9113
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C102 Reception (G.C17)"
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "minifoyer (G.C12)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C115 Foyer (G.E18)"
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C117 Plnm (G.NE19)"
  SPACE
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
```

```
TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C116 Plnm (G.ESE20)"
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
  TYPE
           = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C114 Plnm (G.E21)"
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C108 Plnm (G.WSW26)"
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                 = "C106 Plnm (G.W27)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C107 Plnm (G.C28)"
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C105 Plnm (G.W29)"
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
```

```
TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C103 Plnm (G.C31)"
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
  TYPE
          = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C104 Plnm (G.WNW32)"
  . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C101 Plnm (G.NW33)"
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C111 Plnm (G.S22)"
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C110 Plnm (G.S23)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                 = "C112 C113 Plnm (G.C24)"
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
```

```
TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "minifoyer Plnm (G.C30)"
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
  TYPE
            = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C100 Plnm (G.N34)"
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C102 Plnm (G.C35)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C115 Plnm (G.E36)"
  . .
"EL1 South Perim Pl Zn (G.S25)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C109 Plnm (G.S25)"
  . .
"AC-C2" = SYSTEM
  TYPE
                 = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO
                = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
```

```
ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  RETURN-EFF
                = 0.53
  COOLING-EIR = 0.2275
FURNACE-AUX = 0
                = 1.24069
  FURNACE-HIR
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
           = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
OA-FLOW/PER = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C109 Workroom (G.S7)"
  SPACE
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
               = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C108 Staff Lounge (G.WSW8)"
  SPACE
  . .
"AC-C3" = SYSTEM
  TYPE
                = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL
               = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
```

```
SUPPLY-STATIC = 1.25
  RETURN-EFF = 0.53
  COOLING-EIR
                = 0.2625
                = 0
  FURNACE-AUX
  FURNACE-HIR
                = 1.24069
"EL1 NE Perim Zn (G.NE1)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
OA-FLOW/PER = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C117 Conference (G.NE1)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
               = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
OA-FLOW/PER = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C116 Principal (G.ESE2)"
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C114 Multiuse Office (G.E3)"
  SPACE
  . .
"AC-C4" = SYSTEM
  TYPE
                = PMZS
  HEAT-SOURCE = FURNACE
```

```
BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE
                = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  RETURN-EFF = 0.53
  COOLING-EIR
                = 0.2625
  FURNACE-AUX= 0FURNACE-HIR= 1.24069
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
           = "C105 Nurse (G.W11)"
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
           = CONDITIONED
  TYPE
  CONI

CONTROL = 0.5

OA-CHANGES = 15

DESTON
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C104 Toilet (G.WNW14)"
  SPACE
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 22.9113
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
```

DESIGN-COOL-T = 75COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch" SIZING-OPTION = ADJUST-LOADS = "C103 Record Storage (G.C13)" SPACE . . "EL1 NW Perim Zn (G.NW15)" = ZONE TYPE = CONDITIONED FLOW/AREA = 0.5 OA-FLOW/PER = 22.9113DESIGN-HEAT-T = 72 HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch" DESIGN-COOL-T = 75 COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch" SIZING-OPTION = ADJUST-LOADS = "C101 Office (G.NW15)" SPACE . . "SCU-C1" = SYSTEM = PSZ TYPE COOLING-EIR = 0.242 CONTROL-ZONE = "EL1 Core Zn (G.C10)" . . "EL1 Core Zn (G.C10)" = ZONE TYPE = CONDITIONED FLOW/AREA = 0.5 OA-FLOW/PER = 22.9113 DESIGN-HEAT-T = 72HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch" DESIGN-COOL-T = 75COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch" SIZING-OPTION = ADJUST-LOADS SPACE = "C107 Data (G.C10)" . . "SCU-C2" = SYSTEM = PSZ = 0.242 TYPE COOLING-EIR CONTROL-ZONE = "EL1 West Perim Zn (G.W9)" . . "EL1 West Perim Zn (G.W9)" = ZONE = CONDITIONED TYPE FLOW/AREA = 0.5OA-FLOW/PER = 22.9113DESIGN-HEAT-T = 72

```
HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"

DESIGN-COOL-T = 75

COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"

SIZING-OPTION = ADJUST-LOADS

SPACE = "C106 Elec (G.W9)"

...
```

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```
"Sys1 (PSZ) (G.SSW2)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                 = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
                = 0.53
  SUPPLY-EFF
  RETURN-EFF
                 = 0.53
  COOLING-CAPACITY = 0
  COOLING-EIR = 0.34565
  COOL-SH-CAP
                 = 0
  HEATING-CAPACITY = -48000
  FURNACE-AUX
                = 0
  FURNACE-HIR
                 = 1.24069
  CONTROL-ZONE = "EL1 WSW Perim Zn (G.WSW8)"
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                  = "C108 Staff Lounge (G.WSW8)"
  SPACE
```

```
"EL1 South Perim Zn (G.S7)" = ZONE
          = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
               = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C109 Workroom (G.S7)"
  SPACE
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
               = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C112 C113 Toilets (G.C6)"
  SPACE
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
        = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C110 Riser (G.S5)"
  SPACE
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C111 Custodian(G.S4)"
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
  TYPE
            = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C108 Plnm (G.WSW26)"
  . .
"EL1 South Perim Pl Zn (G.S25)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C109 Plnm (G.S25)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C112 C113 Plnm (G.C24)"
  . .
"EL1 South Perim Pl Zn (G.S23)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C110 Plnm (G.S23)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C111 Plnm (G.S22)"
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
            = UNCONDITIONED
  SPACE
                = "C100 Lobby (G.N16)"
  . .
```

```
"EL1 North Perim Pl Zn (G.N34)" = ZONE
  TYPE = UNCONDITIONED
  SPACE
           = "C100 Plnm (G.N34)"
  . .
"EL1 Core Zn (G.C17)" = ZONE
  TYPE
                = UNCONDITIONED
  SPACE = "C102 Reception (G.C17)"
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE
                = UNCONDITIONED
  SPACE
                = "C102 Plnm (G.C35)"
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                = UNCONDITIONED
  SPACE
                  = "minifoyer (G.C12)"
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
         = UNCONDITIONED
  TYPE
  SPACE
                = "minifoyer Plnm (G.C30)"
  . .
"Sys1 (PSZ) (G.WNW3)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF
                = 0.53
  COOLING-CAPACITY = 13200
  COOLING-EIR = 0.34565
  COOL-SH-CAP = 12400
  HEATING-CAPACITY = -31900
  FURNACE-AUX = 0
  FURNACE-HIR
               = 1.24069
  CONTROL-ZONE = "EL1 NW Perim Zn (G.NW15)"
```

```
"EL1 NW Perim Zn (G.NW15)" = ZONE
               = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
               = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C101 Office (G.NW15)"
  SPACE
  . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
  TYPE
          = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C101 Plnm (G.NW33)"
  SPACE
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
              = "C103 Plnm (G.C31)"
  SPACE
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 20.9802
  DESIGN-HEAT-T = 72
```

```
HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C104 Toilet (G.WNW14)"
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C104 Plnm (G.WNW32)"
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
         = CONDITIONED
  TYPE
               = 0.5
  FLOW/AREA
  OA-FLOW/PER = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C105 Nurse (G.W11)"
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
                = UNCONDITIONED
  TYPE.
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C105 Plnm (G.W29)"
  SPACE
  . .
"Sys1 (PSZ) (G.W4)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = NONE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
```

```
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
               = 0.53
= 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.34565
  COOLING-EIR
  FURNACE-AUX
                = 0
  FURNACE-HIR = 1.24069
  CONTROL-ZONE = "EL1 Core Zn (G.C10)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C107 Data (G.C10)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
        = "C107 Plnm (G.C28)"
  SPACE
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C106 Elec (G.W9)"
  SPACE
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
  TYPE
          = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE = "C106 Plnm (G.W27)"
  . .
"Sys1 (PSZ) (G.ENE5)" = SYSTEM
  TYPE
           = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO
                = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
RETURN-EFF = 0.53
  COOLING-CAPACITY = 21400
  COOLING-EIR = 0.34565
  COOL-SH-CAP = 19800
  HEATING-CAPACITY = -50500
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.24069
  CONTROL-ZONE = "EL1 NE Perim Zn (G.NE1)"
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
            = "C117 Conference (G.NE1)"
  SPACE
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
                 = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
```

```
SPACE
                = "C117 Plnm (G.NE19)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C116 Principal (G.ESE2)"
  SPACE
  . .
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
               = "C116 Plnm (G.ESE20)"
  SPACE
  . .
"Sys1 (PSZ) (G.E6)" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
                = "S1 Sys1 (PSZ) Fan Sch"
  FAN-SCHEDULE
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                = 0.53
  RETURN-EFF
                = 0.53
  COOLING-EIR
                = 0.34565
  FURNACE-AUX
                = 0
                = 1.24069
  FURNACE-HIR
  CONTROL-ZONE = "EL1 East Perim Zn (G.E3)"
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
                 = CONDITIONED
```

```
FLOW/AREA
               = 0.5
  OA-FLOW/PER
               = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C114 Multiuse Office (G.E3)"
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
          = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C114 Plnm (G.E21)"
  SPACE
  . .
"Sys1 (PSZ) (G.E7)" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                = 0.53
  RETURN-EFF = 0.53
  COOLING-CAPACITY = 32500
  COOLING-EIR = 0.34565
  COOL-SH-CAP = 30900
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
  FURNACE-HIR = 1.24069
  CONTROL-ZONE = "EL1 East Perim Zn (G.E18)"
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
```

```
OA-FLOW/PER = 20.9802
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C115 Foyer (G.E18)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C115 Plnm (G.E36)"
  . .
```

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```
SET-DEFAULT FOR SYSTEM
  TYPE = PSZ
  OA-CONTROL = FIXED
   . .
"C1" = SYSTEM
                 = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                 = 1400
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-KW/FLOW = 0.000224
  COOLING-CAPACITY = 32500
  COOLING-EIR = 0.2087
  COOL-SH-CAP
                 = 30900
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.2407
  CONTROL-ZONE = "EL1 Core Zn (G.C17)"
   . .
"EL1 South Perim Zn (G.S5)" = ZONE
  TYPE
                 = UNCONDITIONED
```

```
DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C110 Riser (G.S5)"
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
               = 15
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C100 Lobby (G.N16)"
  SPACE
  . .
"EL1 Core Zn (G.C17)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER = 15
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C102 Reception (G.C17)"
  SPACE
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
                = 15
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "minifoyer (G.C12)"
  SPACE
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 50
```

```
DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C115 Foyer (G.E18)"
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                 = 50
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
SPACE = "C111 Custodian(G.S4)"
  . .
"C2" = SYSTEM
                 = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                = 1600
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-KW/FLOW = 0.000238
  COOLING-CAPACITY = 41000
  COOLING-EIR = 0.212
  COOL-SH-CAP
                 = 37200
  HEATING-CAPACITY = -48000
  FURNACE-AUX = 0
  FURNACE-HIR
                = 1.225
  CONTROL-ZONE = "EL1 WSW Perim Zn (G.WSW8)"
"EL1 West Perim Zn (G.W9)" = ZONE
  TYPE
                 = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C106 Elec (G.W9)"
  . .
```

```
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C107 Data (G.C10)"
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
              = "C109 Workroom (G.S7)"
  SPACE
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 30
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C108 Staff Lounge (G.WSW8)"
  . .
"EL1 Core Zn (G.C6)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 50
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C112 C113 Toilets (G.C6)"
  SPACE
  . .
"C3" = SYSTEM
          = PSZ
  TYPE
```

```
HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  ECONO-LOCKOUT = NO
  SUPPLY-FLOW
                = 800
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-KW/FLOW = 0.000326
  COOLING-CAPACITY = 21400
  COOLING-EIR = 0.2507
  COOL-SH-CAP = 19800
  HEATING-CAPACITY = -50500
  FURNACE-AUX = 0
               = 1.2328
  FURNACE-HIR
  CONTROL-ZONE = "EL1 ESE Perim Zn (G.ESE2)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C116 Principal (G.ESE2)"
  SPACE
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C114 Multiuse Office (G.E3)"
  SPACE
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
```

```
HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C117 Conference (G.NE1)"
  SPACE
  . .
"C4" = SYSTEM
  TYPE
                = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  ECONO-LOCKOUT = YES
  SUPPLY-FLOW = 600
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-KW/FLOW = 0.000361
  COOLING-CAPACITY = 13200
  COOLING-EIR = 0.2507
  COOL-SH-CAP = 12400
  HEATING-CAPACITY = -31900
  FURNACE-AUX = 0
               = 1.2328
  FURNACE-HIR
  CONTROL-ZONE = "EL1 Core Zn (G.C13)"
  . .
"EL1 Core Zn (G.C13)" = ZONE
        = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 75
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 50
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE = "C104 Toilet (G.WNW14)"
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE = CONDITIONED
FLOW/AREA = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C101 Office (G.NW15)"
  SPACE
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA
               = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajDD Sys1 (PSZ) Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajDD Sys1 (PSZ) Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C105 Nurse (G.W11)"
```

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```

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```
"AC C3" = SYSTEM
  TYPE
                 = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                 = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                 = 0.53
  RETURN-EFF = 0.53
```

```
COOLING-EIR = 0.34565
FURNACE-AUX = 0
  FURNACE-HIR = 1.24069
  . .
"EL1 NE Perim Zn (G.NE1)" = ZONE
  TYPE
          = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C117 Conference (G.NE1)"
  . .
"EL1 NE Perim Pl Zn (G.NE19)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "C117 Plnm (G.NE19)"
  . .
"EL1 ESE Perim Zn (G.ESE2)" = ZONE
           = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C116 Principal (G.ESE2)"
  . .
"EL1 ESE Perim Pl Zn (G.ESE20)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C116 Plnm (G.ESE20)"
  SPACE
  . .
"EL1 East Perim Zn (G.E3)" = ZONE
  TYPE
                 = CONDITIONED
```

```
FLOW/AREA
               = 0.5
                = 20
  OA-FLOW/PER
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
         = "C114 Multiuse Office (G.E3)"
  SPACE
  . .
"EL1 East Perim Pl Zn (G.E21)" = ZONE
          = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C114 Plnm (G.E21)"
  SPACE
  . .
"AC C1" = SYSTEM
               = PMZS
  TYPE
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
               = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE
               = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
               = 0.53
                = 0.53
  RETURN-EFF
  COOLING-EIR = 0.34565
                = 0
  FURNACE-AUX
  FURNACE-HIR = 1.24069
  . .
"EL1 East Perim Zn (G.E18)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE = "C115 Foyer (G.E18)"
  . .
"EL1 East Perim Pl Zn (G.E36)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C115 Plnm (G.E36)"
  . .
"EL1 North Perim Zn (G.N16)" = ZONE
  TYPE = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C100 Lobby (G.N16)"
  . .
"EL1 North Perim Pl Zn (G.N34)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C100 Plnm (G.N34)"
  . .
"EL1 Core Zn (G.C17)" = ZONE
           = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
OA-FLOW/PER = 24.9054
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
               = "C102 Reception (G.C17)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C35)" = ZONE
  TYPE = UNCONDITIONED
  DESIGN-HEAT-T = 67
```

```
DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C102 Plnm (G.C35)"
  SPACE
  . .
"EL1 Core Zn (G.C12)" = ZONE
  TYPE
        = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 24.9054
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "minifoyer (G.C12)"
  . .
"EL1 Core Pl Zn (G.C30)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
          = "minifoyer Plnm (G.C30)"
  . .
"Exhaust only" = SYSTEM
  TYPE
               = SUM
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
FURNACE-AUX = 0
  FURNACE-HIR = 1.24069
  . .
"EL1 South Perim Zn (G.S4)" = ZONE
  TYPE
          = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
         = "C111 Custodian(G.S4)"
  SPACE
  . .
"EL1 South Perim Pl Zn (G.S22)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
```

```
SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C111 Plnm (G.S22)"
  . .
"EL1 Core Zn (G.C6)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C112 C113 Toilets (G.C6)"
  . .
"EL1 Core Pl Zn (G.C24)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
                = "C112 C113 Plnm (G.C24)"
  . .
"EL1 South Perim Zn (G.S5)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 72
  DESIGN-COOL-T = 75
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C110 Riser (G.S5)"
  • •
"EL1 South Perim Pl Zn (G.S23)" = ZONE
  TYPF.
                 = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C110 Plnm (G.S23)"
  SPACE
  . .
"AC C4" = SYSTEM
  TYPE
                = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO
                = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T
                = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL
               = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
```
```
SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
  RETURN-EFF
                = 0.53
  COOLING-EIR = 0.34565
  FURNACE-AUX
                = 0
  FURNACE-HIR = 1.24069
  . .
"EL1 NW Perim Zn (G.NW15)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE = "C101 Office (G.NW15)"
  . .
"EL1 NW Perim Pl Zn (G.NW33)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
         = "C101 Plnm (G.NW33)"
  . .
"EL1 Core Zn (G.C13)" = ZONE
  TYPE
           = CONDITIONED
  FLOW/AREA = 0.5
OA-FLOW/PER = 24.9054
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C103 Record Storage (G.C13)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C31)" = ZONE
  TYPE
                = UNCONDITIONED
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
          = "C103 Plnm (G.C31)"
  SPACE
```

. .

```
"EL1 WNW Perim Zn (G.WNW14)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
          = "C104 Toilet (G.WNW14)"
  SPACE
  . .
"EL1 WNW Perim Pl Zn (G.WNW32)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
         = "C104 Plnm (G.WNW32)"
  SPACE
  . .
"EL1 West Perim Zn (G.W11)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C105 Nurse (G.W11)"
  SPACE
  . .
"EL1 West Perim Pl Zn (G.W29)" = ZONE
            = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
SPACE = "C105 Plnm (G.W29)"
  . .
"Data" = SYSTEM
                = PSZ
  TYPE
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
```

```
SIZING-RATIO = 1.15
MAX-SUPPLY-T = 120
  MIN-SUPPLY-T
                 = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
               = 0.53
= 0.53
  SUPPLY-EFF
  RETURN-EFF
                = 0.34565
  COOLING-EIR
                = 0
= 1.24069
  FURNACE-AUX
  FURNACE-HIR
  CONTROL-ZONE = "EL1 Core Zn (G.C10)"
  . .
"EL1 Core Zn (G.C10)" = ZONE
  TYPE
                 = CONDITIONED
  FLOW/AREA = 0.5
  OA-FLOW/PER
                 = 24.9054
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
                = "C107 Data (G.C10)"
  SPACE
  . .
"EL1 Core Pl Zn (G.C28)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
                = "C107 Plnm (G.C28)"
  SPACE
  . .
"Elec" = SYSTEM
  TYPE
                 = PSZ
  HEAT-SOURCE = FURNACE
  ZONE-HEAT-SOURCE = NONE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
```

```
ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
  FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF
                = 0.53
  RETURN-EFF
                = 0.53
               = 0.34565
  COOLING-EIR
  FURNACE-AUX
                 = 0
  FURNACE-HIR = 1.24069
CONTROL-ZONE = "EL1 West Perim Zn (G.W9)"
  . .
"EL1 West Perim Zn (G.W9)" = ZONE
                = CONDITIONED
  TYPE
  FLOW/AREA
                = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C106 Elec (G.W9)"
  . .
"EL1 West Perim Pl Zn (G.W27)" = ZONE
           = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
            = "C106 Plnm (G.W27)"
  . .
"AC C2" = SYSTEM
  TYPE
                 = PMZS
  HEAT-SOURCE = FURNACE
  BASEBOARD-SOURCE = NONE
  SIZING-RATIO = 1.15
  MAX-SUPPLY-T
                 = 120
  MIN-SUPPLY-T = 55
  ECONO-LIMIT-T = 70
  ECONO-LOCKOUT = NO
  OA-CONTROL = OA-TEMP
FAN-SCHEDULE = "S1 Sys1 (PSZ) Fan Sch"
  SUPPLY-STATIC = 1.25
  SUPPLY-EFF = 0.53
```

```
RETURN-EFF = 0.53
  COOLING-EIR
                = 0.34565
  FURNACE-AUX
                = 0
  FURNACE-HIR = 1.24069
  . .
"EL1 WSW Perim Zn (G.WSW8)" = ZONE
  TYPE
                = CONDITIONED
  FLOW/AREA
                = 0.5
  OA-FLOW/PER = 24.9054
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
           = "C108 Staff Lounge (G.WSW8)"
  SPACE
  . .
"EL1 WSW Perim Pl Zn (G.WSW26)" = ZONE
         = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C108 Plnm (G.WSW26)"
  . .
"EL1 South Perim Zn (G.S7)" = ZONE
         = CONDITIONED
  TYPE
  FLOW/AREA = 0.5
  OA-FLOW/PER
                = 20
  DESIGN-HEAT-T = 72
  HEAT-TEMP-SCH = "MajSD GndCor Sys1 Heat Sch"
  DESIGN-COOL-T = 75
  COOL-TEMP-SCH = "MajSD GndCor Sys1 Cool Sch"
  SIZING-OPTION = ADJUST-LOADS
  SPACE
               = "C109 Workroom (G.S7)"
  . .
"EL1 South Perim Pl Zn (G.S25)" = ZONE
                = UNCONDITIONED
  TYPE
  DESIGN-HEAT-T = 67
  DESIGN-COOL-T = 80
  SIZING-OPTION = ADJUST-LOADS
           = "C109 Plnm (G.S25)"
  SPACE
  . .
```

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