

A full service provider of Pennsylvania Uniform Construction Code (UCC) services.

# **Uniform Construction Code**

# **BUILDING SHELL PERMIT**

# **Gratz Borough**

LOCAL LIGHT-HEIGEL OFFICE CONTACT INFORMATION:

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# **BUILDING SHELL PERMIT:**

# **Application Requirements**

The following items constitute a complete UCC application package for the construction of a building shell. Buildings that are constructed speculatively, with the tenants unknown at the time that application is made for a building permit, are the intended recipients of building shell permits.

### 1. A completed UCC APPLICATION FOR BUILDING PERMIT

- Please complete this fully. If an informational item does not apply, indicate this with "NA."
- 2. Payment in full of the amount(s) determined on the COMMERCIAL FEE SCHEDULE.

Fees paid cover plan review and all inspections.

- 3. Two (2) complete sets of construction drawings and one (1) set of specifications.
  - Seals of licensed design professionals must appear on all sheets and be signed and dated by the designer.
  - Drawings must be at least 18" x 24" (but no more than 36" x 42") in size, drawn to scale of no less than 1/8"=1', with sufficient detail to fully indicate the nature and scope of the work to be performed.
  - On the first page of each set, indicate any systems or installations for which plan submission is deferred (e.g., fire alarm system, pre-engineered truss system, sprinkler system).

Applicants/design professionals should note the following regarding deferred submittals:

- a. Plans for any deferred systems must be submitted to the municipal UCC Building Code Official as aplan revision at least 2weeks before proposed installation.
- b. Per §403.43(k) of the UCC regulation, these plans must bear the signature of the design professional in responsible charge and a brief statement indicating that the design professional has reviewed the plans and found them to be in general conformance with the design of the building or structure.
- Provide a building code summary on the first or second sheet of the drawings, with all applicable building code sections filled out.

In preparing these drawings, the design professional should review the guidelines for applicants seeking building permits for shell buildings entitled **SPECIAL REQUIREMENTS FOR SHELL BUILDINGS**.

It is imperative that the two forms on pages 39 and 40 of this document, **Design** 

Basis Documentation (Shell Building) and Phased Construction Certification (Shell Building), be filled out completely. Provide all requested information, (where applicable) all required signatures and one copy of each of these forms with your other application materials.

- 4. Two (2) copies of a site plan showing the size and location of the new construction, with accurate boundary lines, distances from lot lines, and the established street grades and proposed finish grades.
- 5. If applicable, a copy of the SPECIAL INSPECTIONS AND OBSERVATIONS STATEMENT.
  - This document must be completed and submitted in the application package whenever one or more of the special inspections or structural observations (detailed in sections 1704 and 1709 of the *International Building Code*) is required for the proposed work.
  - This statement must be signed by the design professional in responsible charge of the project.

There are occasions when building owners or their representatives may not know who will be performing the special inspections required in Chapter 17, at the time they make application for a UCC building permit. When this occurs, applicants may submit, in lieu of a completed **SPECIAL INSPECTIONS AND OBSERVATIONS STATEMENT** form, a letter stating:

- Why the SPECIAL INSPECTIONS AND OBSERVATIONS STATEMENT cannot be submitted with the application for a building permit;
- The applicant understands that two completed copies of the SPECIAL INSPECTIONS AND OBSERVATIONS STATEMENT will have to be submitted to our inspector at the time of the first required inspection; and,
- The applicant is aware that the first required inspection (typically, the footer inspection) will not occur, and that work may not continue, unless the completed copies of the SPECIAL INSPECTIONS AND OBSERVATIONS STATEMENT are available at the job site.

A Stop Work Order will be issued, should work continue after our inspector has visited the construction site and learned that the required documents are not available.

- 6. When construction will occur in a flood plain, one (1) copy of one of the certifications required in section 1612.5 of the *International Building Code*.
- 7. The following information indicating compliance with the current adoption of the *International Energy Conservation Code.*

Submit one (1) copy of the compliance certificate generated by the COMcheck EZ software. Be sure to utilize version 3.0 Release 1 (or

higher) and to select the IECC as the code to which you will demonstrate compliance.

OR

Submit one (1) copy of the ENERGY CODE PRESCRIPTIVE COMPLIANCE REPORT with the face page and all applicable main component prescriptive reports completely filled out.

8. If alternative construction methods or materials are proposed for use, a statement signed by the design professional, certifying that the proposed methods or materials meet the requirements of 34 PA Code §403.44.

# Uniform Construction Code (UCC) APPLICATION FOR BUILDING PERMIT

	Accessibility Only Review		☐ Addition			
Application	☐ Alteration or Renovation		☐ New Building			
Туре	□ New Structure/Facility		☐ Phased Approval			
	☐ Plan Revision or Partial Occ	cupancy Reques	t 🗆 🗆 Unapproved	Existing Building		
Use/Occupancy		3	B	<del></del>		
Classification:		I-1	 ☐ H-3	☐ H-5		
Check box to <u>left</u> of applicable group.		_	☐ M	 □ R-2		
Check all that apply.	☐ R-3 Adult Care ☐ R	<u>—</u>	☐ S-1 ☐ S-2	□V		
Site Information	Due is at Names					
(Political Subdivision	Street Name and #					
& <u>County</u> names are required.)	City	County	State Zip	Code		
·	Political Subdivision		Tax Parcel #			
Special	Check each block below indicatin					
Requirements & Documentation	Two (2) site plans One (1) completed copy of the		wo (2) complete sets of cons	truction drawings		
Documentation	One (1) set of specifications (c			New Structure/Facility)		
		, <u></u> , _		<u>,</u>		
	Does this co nstruction involve	☐ Yes ☐ No	If "Yes," submit 1 copy of a			
	modular units built in a factory?		design professional certifyi within the modular units (o			
			modular building) and hidd			
			comply with all requiremen	ts of the UCC.		
	Is this construction regulated by	☐ Yes ☐ No	If "Yes," submit 1 copy of			
	the Health Care Facilities Act?  Is this construction exempt from	☐ Yes ☐ No	Pennsylvania Department If "Yes," submit 1 copy of I			
	energy code requirements?		the building or structure w			
	5,		nor fossil fuels, and thus i			
			90.1, §2.3(B).			
			If "No," submit 1 copy of the COMcheck-EZ Certificate or the ENERGY CODE PRESCRIPTIVE			
			COMPLIANCE REPORT.			
	Is project in flood hazard area?	☐ Yes ☐ No	If "Yes," submit 1 copy of			
			certifications mandated in International Building Code			
	Are any of the International	☐ Yes ☐ No	If "Yes," submit 1 co			
	Building Code (Chapter 17)		INSPECTIONS OBSERVA			
	special inspection or structural					
	observations required?	☐ Yes ☐ No	If "Vee " outpoit a signed o	tatament indicating that		
	Will an alternative construction method or material be used on	☐ res ☐ No	If "Yes," submit a signed s the proposed method o			
	this project?		requirements of 34 PA Coo			
	Is this application for "phased	☐ Yes ☐ No	If "Yes," submit a letter s			
	approval"?		professional and owner a			
			issuance of a permit for provides no assurance th			
			grant approval of any U			
			complete the construction			
			professional and owner building/structure fully co			
			requirements before occup			
				•		

Project Data	Lot Number: Block Number:
	Does municipality have a zoning ordinance? ☐ Yes ☐ No If "Yes," has permit been acquired? ☐ Yes ☐ No If "Yes," list date acquired:
	Minimum setbacks required by municipal zoning ordinance (in feet):  Front: Rear: Right Side: Left Side:
	Sq. ft. of conditioned space Sq. ft. of unconditioned space
	Number of stories above grade  Does it have a basement?  Total floor area (sq. ft.)  Yes No
	Floor area <b>new</b> construction (sq. ft.)  Floor area of <b>addition</b> (sq. ft.)  Floor area <b>renovated</b> (sq. ft.)
	# of multi-family dwelling units # of accessible dwelling units
	Type(s) of construction per Chapter 6 of the <i>International Building Code</i> (check all that apply):
	Fire suppression: ☐ Full ☐ Partial ☐ None
	If application applies to an existing building that is "legally occupied", indicate permits held:  Fire and Panic Occupancy Permit  Municipal Occupancy Permit  Municipality Name  L&I UCC Certificate of Occupancy  File number:  File number:
	If "legally occupied," you must select which code requirements the building will comply with (choose only one):
	☐ International Existing Building Code ☐ Chap. 34, International Building Code
	Tax Parcel ID #: Cost of Construction:
Design Professional In Responsible Charge Seal must be in space to right of name & address.	Name: Address:  PA License #: E-Mail: Phone: Fax:

			Permit #:						
			Date:						
Owner	Owner Name								
Information	Street Address								
	City	State	Zip Code	 >					
	Phone Number								
Deferred Submissions									
Fees: Refer to CO	MMERCIAL FEE SCHEDULE								
Applicant's	s Certification:								
	er or the authorized agent of th	e project for which this applica	ation is filed. Los	ertify that:					
	The estimated construction co								
	building permit is correct.	р.		ти оррания					
	The building or structure descr	ibed in this application will no	t be occupied ur	ntil all known code					
•	violations are corrected and a	Certificate of Occupancy has	been received.						
		s project will be constructed in accordance with the approved drawings and specifications							
		cluding any required non-design changes) and the Uniform Construction Code standards as							
	specified in 34 PA Code Chap								
		y changes to the approved documents will be filed with the municipal UCC Building Code Official.							
	If the licensed architect or eng notice of the change will be pro								
	When required, up to 20% of the expending will be expended.								
	No error or omission in either t								
	shall permit or relieve me from								
	Code Chapters 401-405.	,		'					
Applicant N									
Street Addr									
City		State	Zip Co	de					
Phone Nun	nber	· · · · · · · · · · · · · · · · · · ·							
Applicant S	signature		Date						

# Uniform Construction Code (UCC)

# **COMMERCIAL FEE SCHEDULE**

for

# Pennsylvania UCC Municipal Enforcement Program

1. New Construction and Additions - Base Fee \$0.31/ SqFt

2. Remodeling (see definition below) - Base Fee \$0.21/ SqFt

All Plan Reviews and Inspections required on the standard Commercial Submittal Sheet are included in these permit fees.

Note: Special Inspections required by IBC are at Owners Expense.

See Worksheet below to calculate Building Permit and Sub-category fees.

3. Alterations or Repairs to electrical, gas, mechanical or plumbing installations.

a.	Single Event Permit	(one inspection only	) \$200	).00

b. Annual Permit \$200.00 (Inspections in each appropriate discipline are also required)

4. Follow-up Inspections for Incomplete or \$100.00 Compliance Inspections for Annual Permit or

Single Event Permits requiring additional inspections (per trip)

5. Meeting attendance/Hearing attendance \$102.00

6. Next Day Mail Service \$25.00

7. Other services - Provided at No Charge to the Client: Telephone calls, correspondence, mileage, postage

### **DEFINITIONS:**

**Remodeling** is work that includes none of the following:

- (1) Change in Occupancy/Use Group.
- (2) Modify Structural or Firewalls.
- (3) Addition or upgrade of electrical, plumbing, or HVAC services.
- (4) Addition to structure of any kind.

**Annual Permit** – as allowed in the UCC regulation (403.42(f)). Applicant must regularly employ qualified tradespeople. Applicant must keep detailed records of all alterations made under the permit. Applicant will submit copies to the BCO on a predetermined time schedule. BCO will schedule appropriate inspections for modifications made in the previous timeframe. Applicant will be billed for each required Compliance Inspection(s) at the time of inspection.

### **Instructions for Completing the Permit Fee Worksheet**

- 1. Insert **Proposed Total Building Area** in Position A of Worksheet.
  - a. If building is new, use Total Building Area.
  - b. If work is addition or remodel, use Total Construction Area.
  - c. Minimum is 3000 SqFt.
- 2. Choose Proper Usage Group Code Factor from the Chart below and insert in Position B of Worksheet.
  - a. If multiple Usage building, select Primary Usage.
- 3. Multiply the <u>Area</u> and <u>Usage Factor</u> with the <u>Base Fee</u> to obtain the Building Permit Fee amount for Position D.
- 4. Calculate Permit Fees for Mechanical, Plumbing, Accessibility/Energy at 25% of the Building Permit Fee. The Electrical Permit is calculated at 30% of the Building Permit Fee. Insert the amounts in Positions E H as necessary.

### **COMMERCIAL BUILDING PERMIT FEE WORKSHEET**

A.	Project or Building Area (Minimum 3000SqFt)				SqF	-̄t
В.	Usage Group Factor				x	
C.	Base Fee				X \$	
D.	Building Permit Fee (BPF)				\$	_
Ε.	Mechanical Permit Fee	0.25 X	\$(BPF)	_ =	\$	_
F.	Plumbing Permit Fee	0.25 X	\$(BPF)	. =	\$	_
G.	Accessibility/Energy Permit	Fee 0.25 X	,	=	\$	_
Н.	Electrical Permit Fee	0.30 X	\$(BPF)	=	\$	_
			State Fee	+	\$	
TO <sup>-</sup>	TAL COMMERCIAL BUILDI	NG PERI	MIT FEE	=	\$	_
	Check made payable to: <i>LI</i> FOR OFFICE USE CHECK #	ONIL VA			C. BY	
MU	INICIPAL FEE Make <u>additional</u> check made				<b>\$</b> Borough	
	FOR OFFICE USE CHECK #		RECEIVED ON		BY	

**Usage Group Factors** 

ocago or oup ractors				
Factor	Usage Group			
2.0	12			
1.6	A1			
1.5	(A3-Churches), I3			
1.2	A2, A4, (A3-nonchurch), A5			
	B, E, H5, I1, I4, R1, R4			
1.0	R2, R3			
0.9	М			
0.7	F1, F2, H1, H2, H3, H4, S1, S2			
0.5	U			

# **Usage Group definitions per Chapter 3 of current International Building Code.**

### Institutional **A** Assembly I-1 Ambulatory A-1 Theaters I-2 Hospital A-2 Restaurants I-3 Prison A-3 Worship, recreation and amusement A-4 Indoor Sports I-4 Day Care A-5 Outdoor Sports **B** Business

# **E** Education

# F Factory F-1 Moderate Hazard

F-2 Low Hazard

# H High Hazard H-1 Detonation Hazard H-2 Deflagration or Accelerated burning H-3 Readily support combustion H-4 Health hazards H-5 Semiconductor fabrication

### Mercantile М

R Residential

# R-1 Hotel R-2 Apartment House R-3 One & Two Family R-4 Assisted Living

# S Storage S-1 Moderate Hazard S-2 Low Hazard

# U Utility & Misc

# Uniform Construction Code (UCC)

# **UCC PLAN REVIEW CHECKLIST**

This checklist must accompany permit applications for new buildings/structures, additions and renovation projects (those which exceed the scope of ALTERATIONS-LEVEL 1)						
ALL INFORMATION MUST BE FILLED IN, CHECK	KED OR MARKED "N/A"					
Project Name:						
Project Address:						
Owner/Agent:	Telephone:					
Design professional or other person we can contact about info on this form and other project details (if same as Owner/Agent, just provide fax # and e-mail address):	Telephone:					
	F-mail:					

### **General Requirements:**

All drawings shall be sealed, signed, and d ated by a design professional (licensed arch itect or engineer). The only exception is when all of the following apply:

- a) The proposed work only involves remodeling or alterations of an existing building or structure.
- b) The proposed work does not change the building's structure or means of egress.
- c) The person preparing the plans is not compensated for the preparation of the drawings.

All drawings must be neatly drawn with clean, crisp lettering --- they must remain legible after reduction for microfilming.

Computer-generated vicinity maps obtained from web-based services (such as *MapQuest*) are acceptable, as long as the roadways or street names are legible and will remain that way after reduction for microfilming.

When photographs (including digital ones) are submitted to show building elevations, the images must be in focus and correctly exposed.

A Pennsylvania Department of Tra nsportation (PennDOT) permit allowing access to a highway under its jurisdiction is not required at the time t hat application is made for a UCC building permit. If the highway occupancy permit issued by PennDOT requires a location o f the building/structure differing from that approved under the UCC buildingpermit, applicants must send the municipal UCC BCO a letter requesting a determination whether a revision of approved plans will be required.

While we understand t hat many it ems on this checklist may not be included in some alteration or renovation projects, we request that all applicant s work through the entire checklist to ensure that any necessary items are included. If any item is <u>not necessary</u>, <u>please check N/A</u> ("not applicable"). This will greatly facilitate review and approval of projects.

If any of the non-mandatory sections (any sections other than Site Plans and Architectural Plans) in this document do not apply to the proposed work, please check the "N/A" box beside the section title (rather than fill in "N/A" next to each item in that section.

SITE PI	LANS:		
☐ Yes	□ N/A	a.	, , , , , , , , , , , , , , , , , , , ,
☐ Yes	□ N/A	b.	separate vicinity (site location) map.  Show the correct street address, parcel number and required municipal zoning (if there is local zoning ordinance) on the site plans.
☐ Yes	□ N/A	c.	Show and identify all property lines a nd rights-of-way, with distance from property lines and adjacent buildings on site plans.
☐ Yes	□ N/A	d.	Show all a ccessible parking spaces and sig nage per ICC/A NSI A117.1 and the <i>International Building Code</i> on site plan.
☐ Yes	☐ N/A	e.	Show accessible curb cuts, ramps and access ways to the building.
☐ Yes	☐ N/A	f.	Show all existing and proposed driveway entrances.
☐ Yes	☐ N/A	g.	Identify adjacent land uses and zoning.
☐ Yes	☐ N/A	h.	Show all easements, flood ways, and required buffers.
☐ Yes	☐ N/A	i.	Show existing and proposed utilities (with backflow preventers) to serve the site.
☐ Yes	□ N/A	j.	Show existing and proposed finish grades.
Yes	□ N/A	k.	Show details, sections, and elevations needed for construction.
∐ Yes	□ N/A	I.	Show all buffer and screening landscaping.
☐ Yes	☐ N/A	m.	Show all required parking and loading spaces and calculations.
ARCHIT	ECTURAL	. PL	ANS:
☐ Yes	□ N/A	a.	Show architectural floor plans of each floor. These pages must be at least $18" \times 24"$ in size (but not more than $36" \times 42"$ ), drawn to a scale of not less than $1/8" = 1$ '. Indicate (or reproduce) the approved, tested hourly rating, number, and location of all rated members and assemblies (walls, columns, beams, floor and ceiling, and ceiling and roof fire-rated design assemblies).
☐ Yes	□ N/A	b.	Show the square footage of each floor on the corresponding floor plans.
Yes	☐ N/A	C.	Identify the names and uses of each room.
Yes	☐ N/A	d.	Furnish door schedule(s), including size, type, rating (if any) and hardware.
Yes	☐ N/A	e.	Provide all glazing schedules.
Yes	□ N/A	f.	Show elevations with dimensions defining overall building height, floor-to-floor heights, or heights to ridge and eave as applicable to the type of building construction listed on the UCC application. (Note: Where an existing building is involved, photographs of all sides of the building may be submitted to show elevations. These will be acceptable only if they show all elements necessary to determine compliance with the UCC.)
☐ Yes	☐ N/A	g.	Provide basement percentage-below-grade calculations.
∐ Yes	☐ N/A	h.	Indicate roof slopes, drainage system and sized through wall scupper, if applicable to the project.
☐ Yes	□ N/A	i.	Show fixed seating for a ssembly occupancy to allow determination of occupancy posting required by <i>International Building Code</i> .
☐ Yes	☐ N/A	j.	Show wall sections with proposed material sizes, construction, and fire-rated assemblies.
☐ Yes	☐ N/A	k.	Show proposed plumbing fixtures and privacy screens on the plans.
☐ Yes	□ N/A	I.	If masonry construction is proposed, include the following information:  Type of brick ties and spacing of weep holes  Control joints  Placement of wall flashing and reinforcement
Yes	□ N/A	m.	If appropriate for the proposed occupancy, plans should identify all hazardous material control areas, fire barriers, and the required fire-resistance ratings for these barriers. All identified control areas shall list the name, class, quantity and method of storage of all hazardous materials processed, manufactured or used in a man ufacturing process and contained within its fire ba rriers. Provide a Material Safety Data Sheet for each liste d
□ <b>V</b>	□ NI/A		hazardous material. See sections 414 and 415 of the <i>International Building Code</i> .
∐ Yes	∐ N/A	n.	Show the floor slab vapor barrier.
∐ Yes	□ N/A	0.	Show foundation waterproofing, if applicable.
☐ Yes	□ N/A	p.	All penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed the rating of construction being penetrated. The penetration details shall be exactly as tested by an approved testing laboratory or agency and shall include

☐ Yes ☐ Yes	□ N/A □ N/A	q. r.	be shown with appropriate designs.  Show penthouse drawings.  Provide on the drawings the calculations for the means of egress widths for the entire floor occupancy load and the existing capacity of all exits including all stairs, doors, corridors and ramped exits.
☐ Yes	□ N/A	S.	Show required ventilation louvers and vent sizes.
STRUCT	TURAL PL	_ANS	: □ N/A
☐ Yes	□ N/A	a.	(i.e., mat foundation, caissons, spread footings, etc.)
Yes	□ N/A	b.	Provide preliminary soil analysis data done by a licensed engineer, if required.
☐ Yes ☐ Yes	□ N/A □ N/A	c. d.	Indicate dimensions of foundations.  Show type, size and location of piling and pile caps for pile foundation.
Yes	□ N/A	e.	Indicate grade beam sizes.
Yes	□ N/A	f.	Indicate a footing schedule defining footing sizes and the required reinforcing.
Yes	□ N/A	g.	Show the established footing depth below grade and method of frost protection allowed in section 1805.2.1 of the <i>International Building Code</i> .
Yes	□ N/A	h.	Indicate the thickness of the floor slab, size of reinforcing, slab elevations, and type and details of foundations.
∐ Yes	□ N/A	i.	Indicate location, size, and amount of reinforcing steel.
∐ Yes	☐ N/A	j.	Show foundation corner reinforcing b ars and minimum overlapping (as applicable to project structure).
☐ Yes	□ N/A	k.	Provide strength of concrete according to designed soil reports.
Yes	□ N/A	l.	Show beams, joists, girde rs, rafters, and/or truss layouts and details of connections,
		••	structural steel stud gage, gage size, and connections.
☐ Yes	☐ N/A	m.	
Yes	□ N/A	n.	Show all columns, girders, joists, purlins, beams, and base plates; for wood construction show all headers.
☐ Yes	□ N/A	0.	Provide a complete lintel schedule.
∐ Yes	□ N/A	p.	Indicate the type of anchoring for steel bearing directly on masonry.
☐ Yes	□ N/A	q.	Indicate design dead and live, wind, snow, seismic loads for floor areas, roofs, balconies, porches, breezeways, corridors, stairs, mezzanines, and platforms. Show concentrated loads, i.e. file room s, machinery and forklift areas, if greater than those shown on the Code Summary Sheet. Identify shear walls, bracing, strapping, fastening, reinforcement and any special anchoring required.
☐ Yes	□ N/A	r.	Where applicable, indicate on roof framing plan where concentrated loads (mechanical equipment, cranes, etc.) will be placed.
☐ Yes	□ N/A	S.	Indicate on foundation and framing plans the location and lateral load re sisting system. (Show walls, braced frames, moment connections, etc.)
FIRE PR	OTECTIO	N PL	ANS: N/A
☐ Yes	□ N/A	a.	Complete a sprinkler design data sheet and include it on the first plan of the sprinkler drawings.
☐ Yes	□ N/A	b.	
			Often, these shop drawings are not available at the time of initial plan submission. If this is the case, write in "NA," but note the following:  • These shop drawings must be submitted for review and approval at least two weeks before the projected installation date.  • Failure to obtain approval of the se drawings before installation could result not only in delay of the final inspection and issuance of an occupancy permit,

but also in rem oval and reconstruction of installations which f ail to meet UCC

requirements.

	∐ N/A	C.	Show ceiling plans with sprinkler head(s) layout, walls, soffits, openings, doors,
□ Voo	□ N/A	٨	dimensions and room identities.  Verify system design by providing bydraulic calculations along with the following:
☐ Yes	∐ IN/A	d.	Verify system design by providing hydraulic calculations along with the following:  Recent water flow test
			10 percent safety margin
			Type of backflow-preventer or reduced pressure zone showing equivalent foot loss
			Fire pump summary
☐ Yes	□ N/A	e.	Note the type of sprinkler system used (e.g. 13, 13D, or 13R)
☐ Yes	☐ N/A	f.	For residential occupancies such as apartments and condominiums, show sprinkler head
			locations at breezeways, if applicable.
☐ Yes	□ N/A	g.	Indicate the certified testing laboratory agency (e.g. U.L.), their test number and hourly ratings of all new and/or affected rated members and assemblies (i.e. columns, beams, floor/ceiling and ceiling/roof fire-rated design assemblies). Show all new and/or affected fire-rated walls with their ratings, if not show elsewhere.
☐ Yes	□ N/A	h.	All penetrations of fire-rated construction must be per manufacturer's details. Details shall meet or exceed ratings of construction being penetrated. Penetration details shall be exactly as tested by a certified testing laboratory or agency and shall i nclude their system numbers. All new penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs.
☐ Yes	□ N/A	i.	Provide a fire alarm ri ser showing connection to a UL-app roved central station. Show tamper switcher on both OS and Y valves of backflow prevention device, unless shown
☐ Yes	□ N/A	j.	elsewhere. Indicate commodity class (per section 2303 of the <i>International Fire Code</i> ) and height of
☐ Yes	□ N/A	k.	
☐ Yes	□ N/A	I.	"Architectural Plans").  Where special temperature-rated or high-temperature sprinklers are required, show sprinkler type(s) per area, office size, cut sheets with K-factor, water requirements, spray
			pattern, coverage and other pertinent data.
SYSTEM	M CALCUI	LATI	ONS (FIRE PROTECTION):
SYSTEM	M CALCUI	LATI	ONS (FIRE PROTECTION):
Hydrauli	cally calcu	ulated	ONS (FIRE PROTECTION): N/A  d and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:
Hydrauli	cally calcu	ulated	d and pipe schedule fire systems should be designed with a 10 percent safety margin for all
Hydrauli new buil Yes Yes	cally calcudings and N/A N/A	ılated addi a. b.	d and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.
Hydrauli new buil Yes Yes	cally calcudings and	ılated addi a. b.	d and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head
Hydrauli new buil Yes Yes	cally calcudings and N/A N/A	ulated addi a. b.	d and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.
Hydrauli new buil Yes Yes	cally calcudings and N/A N/A	ulated addi a. b.	and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.  3. Show the sanitary sewer service from building to public sewer or approved private
Hydrauli new buil Yes Yes	cally calcudings and N/A N/A	ulated addi a. b.	and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.  3. Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.  Show interceptors as applicable to project and size by flow rate. (i.e. grease, oil, lint,
Hydrauli new buil Yes Yes PLUMB	cally calcudings and  N/A N/A  ING PLAN	alated addi a. b. <b>IS:</b> a.	and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.  3. Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.  Show interceptors as applicable to project and size by flow rate. (i.e. grease, oil, lint, acid, sand)  Provide plumbing plan layouts for each floor. These should show the water distribution and drain-waste-vent piping, and all details, notes, legends and schedules necessary to
Hydrauli new buill  Yes Yes PLUMB  Yes  Yes  Yes	cally calcudings and  N/A N/A N/A  ING PLAN N/A  N/A  N/A	alated addir a. b.  IS: a. b. c. d.	and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.  3. Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.  Show interceptors as applicable to project and size by flow rate. (i.e. grease, oil, lint, acid, sand)  Provide plumbing plan layouts for each floor. These should show the water distribution and drain-waste-vent piping, and all details, notes, legends and schedules necessary to define the system being installed.  Show the location of all major components required for a complete system.
Hydrauli new buil  Yes Yes PLUMB Yes Yes Yes	cally calcudings and  N/A N/A N/A N/A N/A N/A N/A	alated addi a. b. <b>IS:</b> a. — b. c.	and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.  3. Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.  Show interceptors as applicable to project and size by flow rate. (i.e. grease, oil, lint, acid, sand)  Provide plumbing plan layouts for each floor. These should show the water distribution and drain-waste-vent piping, and all details, notes, legends and schedules necessary to define the system being installed.  Show the location of all major components required for a complete system.  Provide fixture and equipment schedule showing fixture number, detailed description, hot
Hydrauli new buil  Yes Yes PLUMB  Yes  Yes  Yes  Yes	cally calcudings and  N/A N/A ING PLAN N/A N/A N/A N/A N/A	alated addir a. b.  IS: a b. c. d. e.	and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.  3. Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.  Show interceptors as applicable to project and size by flow rate. (i.e. grease, oil, lint, acid, sand)  Provide plumbing plan layouts for each floor. These should show the water distribution and drain-waste-vent piping, and all details, notes, legends and schedules necessary to define the system being installed.  Show the location of all major components required for a complete system.  Provide fixture and equipment schedule showing fixture number, detailed description, hot water, cold water, waste and vent connection sizes and other pertinent data.
Hydrauli new buill  Yes Yes PLUMB  Yes  Yes  Yes	cally calcudings and  N/A N/A N/A  ING PLAN N/A  N/A  N/A	alated addir a. b.  IS: a. b. c. d.	and pipe schedule fire systems should be designed with a 10 percent safety margin for all tions to existing buildings. Calculations for hydraulic systems should include:  Flow and pressure at each flowing sprinkler head Flow diagram for a grid system.  N/A  Show a site utilities plan, if not provided with the civil drawings.  1. Show the domestic water, fire, and irrigation services.  2. Show the location of water meters, backflow protection type and location.  3. Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.  Show interceptors as applicable to project and size by flow rate. (i.e. grease, oil, lint, acid, sand)  Provide plumbing plan layouts for each floor. These should show the water distribution and drain-waste-vent piping, and all details, notes, legends and schedules necessary to define the system being installed.  Show the location of all major components required for a complete system.  Provide fixture and equipment schedule showing fixture number, detailed description, hot

☐ Yes	□ N/A	h.	On buildings two stories and above, provide isometric diagrams and/or schematic riser diagrams for Supply and Waste/Vent piping and identify the risers by numb er (e.g. R1, R2, etc.). Show where all riser base terminations connect to the building drain, along with all interconnected piping and only the classification.
☐ Yes	□ N/A	i.	with all interconnected piping on each floor plan. All pipe sizes shall be clearly defined. Show the water, sani tary drain-waste-vent piping and storm leaders/drains. Indi cate sizes and materials for above/below grade.
☐ Yes	□ N/A	j.	Show slope of horizontal sanitary and storm drains that equal or exceed 3" diameter, if less than 1/8" per foot.
☐ Yes	□ N/A	k.	Indicate roof drains and emergen cy roof drains/scuppers with the areas they impact.  Note that "emergency" = "secondary" = "overflow." See following roof drainage examples:  Roof Drain – 6" RD (16880 SF)  Emergency Roof Drain – 6" ERD (8180 SF)  Parapet Wall Scupper – 8" x 5" WS (4000 SF)  Emergency Scupper – 8" x 7" ES (4200 SF)
Yes	□ N/A	I.	Show toilet room layouts with minimum of $\frac{1}{4}$ " = 1 foot scale.
☐ Yes ☐ Yes	□ N/A □ N/A	m. n.	Show drinking fountain locations.  All penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed ratin g of construction being penetrated. The penetration details shall be exactly as tested by an approved testing laboratory or agency and shall include their system numbers.
☐ Yes ☐ Yes	☐ N/A ☐ N/A	0. p.	
Yes	□ N/A	q.	Column line notations, if provided on the architectural/structural plans, shall be indicated on the plumbing plans.
MECHA	NICAL PI	LANS	:: □ N/A
Yes	□ N/A	a.	Show all required wall louvers, penetrations and fans.
☐ Yes	☐ N/A ☐ N/A	b. C.	Indicate roof-mounted equipment locations.  Show all mechanical equipment, piping, ductwork (above/below slab) on the mechanical floor and/or roof plan.
☐ Yes	□ N/A	d.	
Yes	□ N/A	e.	Indicate air distribution devices and show cfm for all supply, return and exhaust devices.
Yes	□ N/A	f.	Indicate the location of all equipment components required for a complete system.
☐ Yes	□ N/A □ N/A	g. h.	Show the smoke ventilation of atriums and pressurization of high-rise stairwells. Show condensation drains, primary and secondary, from the unit to the point of discharge.
Yes	□ N/A	i.	Indicate toilet exhaust requirements.
Yes	□ N/A	j.	Show mechanical room layouts at sufficient scale for di mensions and details to be ascertained.
Yes	□ N/A	k.	Show the size of duct runs.
Yes	□ N/A	l.	Indicate controls for fan shutdown: emergency manual and automatic smoke detection.
Yes	☐ N/A		Show the location of all UL 555-certified fire dampers, ceiling radiation dampers, smoke dampers, and fire doors.
☐ Yes	□ N/A	n.	Show all fire-rated walls (both existing and new) with their ratin gs on the mechanical plans.
☐ Yes	□ N/A	0.	All penetrations of fire-rated construction must be per manufacturer's details.
T Yes	☐ N/A	p.	Room names and numbers for each floor should be on a floor plan for each level.
T Yes	☐ N/A	q.	Provide outside air ventilation rate per the <i>International Mechanical Code</i> .
Yes	☐ N/A	r.	Column line notations, if provided on the architectural/structural plans, shall be identified on the mechanical plans.
☐ Yes	□ N/A	S.	Provide gas piping layout on the floor plan for each floor. If it is a m ulti-story building, all gas piping shall be shown per floor. Include pipe sizes, water column, and type of material. Provide a sch edule of connected equipment, total BTUH dem and, total equivalent length, and most remote gas appliance.

ELECTR	RICAL PLA	NS:	□ N/A
☐ Yes	□ N/A	a.	Provide panel schedules with circuit and feeder loading, overcurrent protection, and NEC load summaries for all new and/or affected panels and services (loading has to be evaluated by highest phase); include fault current data, short circuit ratings and fault current protection co-ordination.
☐ Yes	□ N/A	b.	Provide a single line riser diagram showing all new and/or affected services, feeders, wire sizes and insulation types, and conduit sizes and types.
☐ Yes	□ N/A	C.	Indicate number of services and their physical lo cations; clearly indicate mains and characteristics.
☐ Yes	□ N/A	d.	Indicate the grounding electrode conductor size with new and/or affected services and transformers; where necessary provide details or notes on methods.
☐ Yes ☐ Yes	□ N/A □ N/A	e. f.	Show physical locations of all new and/or affected panels and switchgear (indicate front). Indicate receptacle plans with circuitry.
Yes	□ N/A	g.	Indicate lighting plans with circuitry.
Yes	□ N/A	h.	Show electrical plans for each affected floor, including the roof.
Yes	□ N/A	i.	Show wiring method(s), conduit sizes and types, termination temperature (60, 75, 90) requirements, conductor sizes and insulation types.
☐ Yes	□ N/A	j.	Indicate the design and/or operation for a ny of the following applicable life safety systems: emergency generators, smoke evacuation, shaft p ressurization and relief, smoke detection, egress and emergency lighting, and fire alarms.
Yes	□ N/A	k.	Indicate how special needs such as classified (hazardous), corrosive and patient care are treated. Provide detailed plan of classified areas, the classifications and how complied with (i.e. han gers, waste treatment and collection, flammable dusts, gases or liquids, spray booths, vehicle servicing and parking, etc.).
☐ Yes	□ N/A	l.	Provide all HVAC nameplate data, including MCA and MOCP. List all oth er appliance and/or equipment (other than those which will be connected to a general use receptacle) with nameplate data (i.e. voltage, phasing, HP, KVA, FLA, RLA, etc.).
☐ Yes	☐ N/A	m.	Indicate all motor horsepower ratings, if not supplied elsewhere.
Yes	□ N/A	n.	Indicate the certified testing laboratory or agency (e.g. UL), their test # and hourly ratings of all new and/or affected rated members and assemblies (i.e. columns, beams, floor/ceiling, and ceiling/roof fire-rated design assemblies). Show all new and/or affected fire-rated walls with their ratings, if not shown elsewhere.
☐ Yes	□ N/A	0.	All penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed ratings of construction being penetrated. Penetration details shall be exactly as tested by an approve d testing laboratory or agency and shall include their system numbers. New penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs.
☐ Yes	□ N/A	p.	Provide all applicable <i>International Energy Conservation Code</i> compliance data on the Building Code Summary sheet or on the electrical plans.
☐ Yes	□ N/A	q.	All submittals should include a listing and labeling statement. (All electrical materials, devices, appliances and equipment shall be la beled and listed by a certified testing laboratory or agency.)

Uniform Construction Code (UCC)

# SPECIAL INSPECTIONS AND OBSERVATIONS STATEMENT

This statement must accompany permit applications for all construction for which special inspections and observations are required in section 1704 and 1709 of the <i>International Building Code 2006</i> .	ction for which special 9 of the <i>International Building</i>
Project Name:	
Project Address:	
Owner:	Telephone:

This is to certify that all the inspections and observations that I have checked on pages 2-3 **and** on page 4 of this statement are required for the project named above and will be performed by the designated individuals or firms. By signing this statement, I also acknowledge that:

- these inspections and observations must be performed by competent individuals in accordance with sections 1704 and 1709 (as applicable) and that the construction work must comply with the approved plans and specifications and all applicable provisions of the Uniform Construction Code;
- records of all required special inspections and testing observations (including any discrepancies and methods of correction of these discrepancies) will be retained and made available to Municipal UCC Officials, upon request; and,
- the Final Report section of this statement must be signed by me and a copy of this statement submitted to the municipal UCC inspector, at the time that the final inspection is performed and before a certificate of occupancy is issued.

Name of Design Professional in Responsible Charge

Signature of Design Professional in Responsible Charge

PA License Number Date signed (Month/Day/Year) PLEASE AFFIX SEAL IN SPACE TO THE LEFT.

CHECK EACH THAT APPLIES	TYPE OF SPECIAL INSPECTION OR OBSERVATION	NAME AND ADDRESS OF INDIVIDUAL AND/OR FIRM PERFORMING INSPECTION OR OBSERVATION	CREDENTIALS (Enter acronym from page 4. If "Other," please specify special training or basis for competency to perform work.)
	Inspection of Fabricators		
	Inspection of Steel Construction		
	Inspection of Concrete Construction		
	Inspection of Masonry Construction		
	Inspection of Wood Construction		
	Inspection of Soil Conditions		

CHECK EACH THAT APPLIES	TYPE OF SPECIAL INSPECTION OR OBSERVATION	NAME AND ADDRESS OF INDIVIDUAL AND/OR FIRM PERFORMING INSPECTION OR OBSERVATION	CREDENTIALS (Enter acronym from page 4. If "Other," please specify special training or basis for competency to perform work.)
	Inspection of Pile Foundations		
	Inspection of Pier Foundations		
	Inspection of Wood Panels and Veneers		
	Inspection of Sprayed Fire-Resistant Materials		
	Inspection of Smoke Control		
	Inspection of Exterior Insulation & Finish System (EIFS)		
	Structural Observations		

	Required Special Inspections or Observ	or Observations:			
FINAL	Inspection of Fabricators Inspection of Steel Construction Inspection of Concrete Construction Inspection of Wood Construction Inspection of Soil Conditions Structural Observations	uction nstruction nstruction ruction ns		Inspection of Pile Foundations Inspection of Pier Foundations Inspection of Wood Panels and Veneers Inspection of Sprayed Fire-Resistant Materials Inspection of Smoke Controls Inspection of Exterior Insulation & Finish System (EIFS)	ı (EIFS)
	I certify that I have reviewed the report on each of the inspections or observations checked above. These reports indicate the is in compliance with the approved plans and specifications and all applicable provisions of the Uniform Construction Code.	t on each of the inspectio ans and specifications and	ns or observations ched all applicable provisior	l certify that I have reviewed the report on each of the inspections or observations checked above. These reports indicate that the covered work is in compliance with the approved plans and specifications and all applicable provisions of the Uniform Construction Code.	ed work
		Sig	nature of Design Professic	Signature of Design Professional in Responsible Charge:	
		l			
		Dai	Date signed (Day/Month/Year):	<del>'`</del>	
		/ ACI	American Concrete Insti	American Concrete Institute Certified Concrete Field Testing Technician	
		/ AWS	American Welding Soci€	American Welding Society Certified Welding Inspector	
		/ ASNT	American Society of Non-Destructive Testing	n-Destructive Testing	
		AWCI	Association of Wall and Ceiling Industries	d Ceiling Industries	
A A	KEY for use in <b>CREDENTIALS</b> column:	MCA	Model code agency (ICC	Model code agency (ICC, BOCA, SBCCI, ICBO) special inspection certification	ation
	(on pages 2 and 3)	PA	Professional Architect (currently licensed)	currently licensed)	
		PE	Professional Engineer (currently licensed)	currently licensed)	
		OTHER	Specialized training cou	Specialized training coursework or other basis for competency deemed acceptable	ceptable

# Uniform Construction Code (UCC) ENERGY CODE PRESCRIPTIVE COMPLIANCE REPORT

PROJECT INFORMATION			
Project Name:		IECC	ASHRAE/IESNA
		Climate	90.1
Street Number and Name:		Zone	Table
<del></del>			
City:	Zip Code:	Zone 10B	☐ B-13
	<u> </u>	Zone 11B	│
Political Subdivision:	County:	Zone 12A	
		Zone 13B	□ B-17
		Zone 14A	
		Zone 15	
PROJECT DESCRIPTION			
Building floor area: squ	are feet		
☐ New construction	Addition (conditioned)	Alteration	
Unconditioned shell	Unconditioned addition		
If using ASHRAE/IESNA 90.1 prescr	riptions, indicate if Semi-heated Space of	or if	pace
APPLICABLE STANDARDS			
Check which standards will be used	for each component listed below.		
	IECC CHAPTER 8	ASHRAE/II	ESNA 90.1
Building Envelope			
Mechanical Systems			
Electrical/Lighting Systems			
If no Building Envelope box was che	cked above, please indicate why the building	ng envelope is ex	empt from the
energy conservation requirements:			
☐ Peak design rate of energy us	sage will be less than 3.4 Btu/h/sq. ft.		
Building or structure will be ne	either heated nor cooled		
Building of structure will be the	surer reduce nor cooled.		
Attack cither the IECC Cha	entor 9 or the ACHDAE/IECNA "I	Orocorintivo I	Danart" for
	pter 8 or the ASHRAE/IESNA "F	rescriptive r	Report <u>Ior</u>
each of the components ch	ieckeu above.		

# IECC Prescriptive Report: <u>BUILDING ENVELOPE</u>

Window and Glazed Door	Area/Abo	ove Grade Wall A	rea Ratio:		%
Skylights  R value of slab or below-	grade wal	Total Skylig U Assemb	of Area: ht Area: J-factor: ly Type:		_ square feet
Windows and Glass Door	s (list ind				
Number/Location		PF	=	SHGC	U
Doof Accombly (list cook	turns of o				
Roof Assembly (list each Elements of Roof Assem		Insulation Bet	ween Framing alue)	Co	ontinuous Insulation (R-Value)
Floors Over Outdoor Air		ditioned Spaces (	list each type of a		
Elements Of Floor Assem	iblies		ween Framing alue)	Co	ontinuous Insulation (R-Value)
		<b>\</b>			(1111111)
Above-Grade Walls (list	each type	of assembly use	d):		
Elements of Wall		o Framing	Metal Fram	ing	Wood Framing
Assembly Used	(	R-Value)	(R-Value	)	(R-Value)

# IECC BUILDING ENVELOPE CHECKLIST (requirements that will also be checked during inspection process):

- All joints and penetrations caulked, gasketed, weather-stripped, or otherwise sealed.
- Windows, doors, and skylights certified as meeting leakage requirements.
- All component R-values and U-factors labeled as certified.
- Stair, elevator shafts, vents and other dampers integral to building envelope are equipped with motorized dampers. (Gravity dampers may be used in buildings less than 3-stories in height.)
- Cargo/loading dock doors weather sealed.
- Recessed lighting fixtures installed per Section 802.3.7
- Vestibule provided at building entrances, with self-closing doors.
- Vapor retarder installed.

# IECC Prescriptive Report: <u>MECHANICAL</u> <u>SYSTEMS</u>

Fill in all the requested information for either a simple or complex HVAC system.

Heatin		· 	ndamentals Handbook are	<b>:</b> :
803.2.2 HVAC Equip	mont Porformanco			
Manufacturer Model Number	Capacity	Equipment Efficiency	Table used from Section 803	Required Efficiency
Heatin	lesign loads calculated g Load = g Load =	<u> </u>	ndamentals Handbook are	<b>;</b> :
Manufacturer Model Number	Capacity	Equipment Efficiency	Table used from Section 803	Required Efficiency
	on requested below for  Nater Heating Equipme		ating system.	
Manufacturer Model Number	Capacity	Equipment Efficiency	Equipment Type	Required Efficiency

# IECC Building Mechanical Systems & Service Water Heater Requirement Checklist (requirements that will also be checked during inspection process):

- Load calculations per ASHRAE Fundamentals Handbook-2001.
- Plant Equipment and system capacity not greater than needed to meet loads.
- Minimum one temperature control device per zone.
- Stair and elevator shaft vents are equipped with motorized dampers
- Discharge dampers prohibited on constant volume fans & variable volume fans with motors >25hp.
- Balancing and pressure test connections on all hydronic terminal devices.
- Single-duct Variable Air Volume (VAV) terminals reduce primary air before reheating.
- Dual-duct (VAV) mixing boxes installed to minimize mixing.
- Controls capable of resetting supply air temperature (SAT) by 25% of SAT-room temperate difference.
- Minimum one humidity control device per installed humidification/dehumidification system.
- Automatic Controls: Setback to 55 degrees F (heat) & 85 degrees F (cool)
- Outside air supply and exhaust ducts equipped with gravity or motorized dampers with automatic shut off.
- Duct insulation: R-5 unconditioned spaces, R-8 outside building, R-8 between duct and exterior envelope.
- Duct construction per International Mechanical Code (IMC).
- Balancing devices provided in accordance with IMC.
- Minimum pipe insulation per Table 803.3.
- Heat traps in inlet/outlet fittings for service water heating.
- Pipe insulation for Service Water Heating per Section 804.5
- Water temperature controls: 110 degrees F for dwelling units, or 90 degrees F for other occupancies.
- Hydronic three-pipe systems not used.
- Operation and maintenance manual provided to building owner.

# IECC Prescriptive Report: <u>Electrical Power & Lighting Systems</u>

Fill in all the requested information for either the entire building method or the tenant portion/portion of the building method.

Entire Building Method:	
Building Use or Area Type from Table 805.5.2:	
Total Area of the Building (Sq. Ft.):	
Total Interior Light Power (Watts):	

Tenant Area or Portion of Building Method:

Tenant Area/ Building Portion	Use From Table 805.5.2	Total Area sq.ft.	Total Interior Lighting Power (Watts)

# IECC Electrical Power & Lighting Systems Requirements Checklist requirements that will also be checked during inspection process):

- Exterior Lighting: Efficacy greater than 45 lumens/W
- Independent controls for each space (switch/occupancy sensor).
- Master switch at entry to hotel/motel guest rooms.
- Individual dwelling units separately metered.
- Each space provided with a manual control to provide uniform light reduction capability.
- If area is corridor, storeroom, restroom, or lobby; area must be continuously illuminated; areas greater than 250 sq. ft. or use less than 0.6 watts/sq. ft.
- Photocell/astronomical time switch on exterior lighting.
- Tandem wired one-lamp & 3-lamp ballasted luminaries.

# ASHRAE/IESNA 90.1 Prescriptive Report: <u>Electrical Power & Lighting Systems</u>

Fill in all the requested information for either the entire building method or the tenant portion/portion of the building method.

Entire Building Method:			
Building Use or Area Type	from Table 9.3.1.1:		
Total Area of th	e Building (Sq.Ft.):		
Total Interior Li	ght Power (Watts):		
Tenant Area or Portion of Buildin	g Method:		
Tenant Areal	Use From	Total Area	Total Interior

Tenant Area/ Building Portion	Use From Table 9.3.1.2	Total Area Sq. Ft.	Total Interior Lighting Power (Watts)

# ASHRAE/IESNA 90.1 Electric Power & Lighting Requirements Checklist (requirements that will also be checked during inspection process):

- Minimum Efficacy of 60 lumens/watts for lamps greater than 100W used for exterior lighting.
- Lighting power for freestanding canopy areas for building entrances with canopies less than or equal to 3 watts per square foot.
- Lighting power for building entrances without a canopy less than or equal to 33 watts per linear foot of exterior door width.
- Lighting power for buildings exits less than or equal to 20 watts per linear foot of exit door width.
- Lighting power for building facades less than or equal to 0.25 watts per square foot of the illuminated area.
- Independent manual or occupancy sensing controls for each space (remote switch with indicator allowed for safety or security).
- Automatic shutoff control for lighting in > 5000 sq.ft. buildings by time-of-day device, occupant sensor or other automatic control.
- Master switch at entry to hotel/motel guest room.
- Photocell/astronomical time switch on exterior lights (except areas requiring lighting during daylight hours).
- Tandem wired one-lamp and three-lamp ballasted luminaries (except high-frequency ballasts; luminaries not on same switch).
- Feeder conductors have been designed for a maximum voltage drop of 2 percent.
- Branch circuit conductors have been designed for a maximum voltage drop of 3 percent.

# ASHRAE/IESNA 90.1 Prescriptive Report: Building Envelope

ASHRAE/IES	5NA 90.1 Pre	escriptive Report: <u>Build</u>	<u>ling Envelope</u>	
Roof Assembly (list each type	of assembly u	sed per table 5.3)		
List Building Envelope Option: Residential Non-residential		Opaque Elements	Assembly Max. U	Insulation Min. R
Walls, Above-Grade (list each	type of assemb	oly used per table 5.3)		
List Building Envelope Option:	-	Opaque Elements	Assembly	Insulation
Residential Non-residential	Semi-heated		Max. U	Min. R
Floor Assembly (list each type	e of assembly u			1
<u>List</u> Building Envelope Option: <b>Residential Non-residential</b>	Semi-heated	Opaque Elements	Assembly Max. U	Insulation Min. R
Residential Non residential	Ocim neated		Wax. o	Willia IX
				•
Slab on Grade Floors (list eac List Building Envelope Option:	n type of assen	Opaque Elements	Assembly	Insulation
Residential Non-residential	Semi-heated	- F	Max. U	Min. R
Wall, Below Grade (list each t	ype of assembl	y used per table 5.3)		
<u>List</u> Building Envelope Option:		Opaque Elements	Asse	
Residential Non-residential	Semi-heated		Max	K. U
Opaque Doors (list each type	of assembly us		A	.hlv
<u>List</u> Building Envelope Option: <b>Residential Non-residential</b>	Semi-heated	Opaque Elements	Assem Max.	•
-				

# ASHRAE/IESNA 90.1 Prescriptive Report: <u>Building Envelope</u> (Continued)

Fenestration (list each type of assembly used per table 5.3)

List Building Envelope Option: Residential Non-residential Semi-heated	% Vertical Glazing	SHGC Multiplier	Assembly Max. U	SHGC North	SHGC All

Skylights (list each type of assembly used per table 5.3)

List Building Envelope Option: Residential Non-residential Semi-heated	Туре	% of Roof	Assembly Max.	SHGC Max.
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# ASHRAE/IESNA 90.1 Building Envelope Requirements Checklist (requirements that will also be checked during inspection process):

- Open-blown or poured loose-fill insulation has not been used in attic roof spaces with ceiling slope greater than 3 in 12.
- Wherever vents occur, vents are baffled to deflect incoming air above the insulation.
- Recessed lights, equipment and ducts are not affecting insulation thickness.
- No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- All exterior insulation is covered with protective material.
- Cargo and loading dock doors are equipped with weather seals.
- Windows & skylights are labeled & certified by the manufactures for U-factor & SHGC.
- Fixed windows & skylights unlabeled by manufacturer have been site labeled using the default U-factor & SHGC.
- Other unlabeled vertical fenestration, operable and fixed, not labeled by the manufacturer, has been site labeled using the default U-factor and SHGC.
- All joints & penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
- Windows, doors, and skylights certified as meeting leakage requirements.
- Components R-values & U-factors labeled as certified.
- Building entrance doors have a vestibule and equipped with closing devices.

# ASHRAE/IESNA 90.1 Prescriptive Report: Mechanical Systems (Simple)

A building that is <u>less than 2 stories in height</u>, and, <u>has less than 25,000 total square feet floor area</u>, and, <u>has a single HVAC zone</u>, must meet the requirements for a simple mechanical system.

If the requirements for a **simple mechanical system** apply, fill in all of the following information.

Cooling (if provided)	
Manufacturer Nar	me
Mfg'er Specified Efficier	icy
	Air Conditioner   Min. Efficiency (Table 6.2.1A)
	Heat Pump   Min. Efficiency (Table 6.2.1B)
	Packaged Terminal & Room AC & Heat Pump   Min. Efficiency (Table 6.2.1D)
	Is Economizer required per Table 6.1.3?   Yes   No
Heating	
Manufacturer Nar	me
Mfg'er Specified Efficier	ncy
	Heat Pump   Min. Efficiency (Table 6.2.1A)
	Heat Pump   Min. Efficiency (Table 6.2.1D)
	Fuel Fired Furnace   Min. Efficiency (Table 6.2.1E)
	Fuel Fired Boiler   Min. Efficiency (Table 6.2.1F)
	Electric Resistance Heat
Service Hot Water	
Manufacturer Nar	me
Mfg'er Specified Efficier	icy
	Load calculated per 7.2.1
	Efficiency/Performance Requirements per 7.2.2
	Prescriptive Path per 7.3, <u>if combined</u>
	boiler/service hot water

# ASHRAE/IESNA 90.1 Mechanical Systems (Simplified) Requirements Checklist (requirements that will also be checked during inspection process):

- Energy recovery ventilation required if outside air quality supplied by the system is greater than 3000 cfm & greater than 70% of the supply air quantity at min. outside air designs.
- Manual change over or dual set-point thermostat supplied.
- Heat pump controls to prevent supplemental heater operation.
- Systems controls to prevent reheat or any other form of simultaneous heating & cooling for humidity control supplied.
- Programmable time clock on HVAC systems greater than 15,000 BTU/H & supply fan greater than 3/4/hp.
- HVAC piping shall be insulated in accordance with Table 6.2.4.1.3 insulation suitable for outdoor service.
- Ductwork & plenums insulated in accordance with Table 6.2.4.1.2A & 6.2.4.1.2B and ducted systems air balanced.
- Thermostats shall be interconnected to prevent simultaneous heating & cooling.

# ASHRAE/IESNA 90.1 Mechanical Systems (Simple) Requirements Checklist (continued)

- Dampers automatically shut on systems greater than 300 cfm.
- Optimum start controls supplied on systems with capacities greater than 10,000 cfm.

# ASHRAE/IESNA 90.1 Service Hot Water Systems Requirements Checklist (<u>requirements that will also be checked during inspection process</u>):

- Service Hot Water Piping Insulation meets 7.2.3
- Temperature maintenance automatic time switches installed (7.2.4.2)
- Outlet temperature controls installed (7.2.4.4)
- Circulating pump controls installed (7.2.4.4)
- Storage temperature controls installed (7.2.4.1)
- Heat traps installed (7.2.6)

# ASHRAE/IESNA 90.1 Prescriptive Report: Mechanical Systems (Complex)

If the requirements for a **complex mechanical system** apply, fill in all of the following information.

Heating System Design Load:

**HVAC Equipment Performance per section 6.2.1** 

Cooling System Design Load: \_\_\_\_

Manufacturer/ Model #	Capacity	Equipment Efficiency	Table used from Section 6.2.1	Required Efficiency	1992 Epact

Service Hot Water		
Manufacturer Name		
Mfg'er Specified Efficiency		
	Load calculated per 7.2.1	
	Efficiency/Performance Requirements per 7.2.2	
	Prescriptive Path per 7.3, if combined	
	boiler/service hot water	

# ASHRAE/IESNA 90.1 Mechanical Systems (Complex) Requirements Checklist (requirements that will also be checked during inspection process):

- Economizers per 6.3.1
- Simultaneous heating & cooling limitations per 6.3.2
- Air system design & condoles per 6.3.3
- Hydronic system design & control 6.3.2.2.3
- Heat rejection equipment per 6.3.5
- Energy recovery per 6.3.6.
- Exhaust Hoods per 6.3.7
- Radiant Heating systems per 6.3.8
- Hot gas bypass limitations per 6.3.9
- Service hot water piping insulation meets 7.2.3
- Temperature maintenance automatic time switches installed per 7.2.4.2
- Outlet temperature controls installed per 7.2.4.3
- Circulating pump controls installed per 7.2.4.4
- Storage temperature controls installed per 7.2.4.1
- Heat traps installed per 7.2.6

### Uniform Construction Code (UCC)

# **Special Requirements for Shell Buildings**

# I. General Requirements:

All drawings, shall be sealed, signed, and dated, by a design professional (licensed architect or engineer).

All drawings must be neatly drawn with clean, crisp lettering --- they must remain legible after reduction for microfilming.

Computer-generated vicinity maps obtained from web-based services (such as *Mapquest*) are acceptable, as longs as the roadways or street names are legible <u>and</u> will remain that way after reduction for microfilming.

A Pennsylvania Department of Transportation (PennDOT) permit allowing access to a highway under its jurisdiction is not required at the time that application is made for a UCC building permit. If the highway occupancy permit issued by PennDOT requires a location of the building/structure differing from that approved under the UCC building permit, applicants must send the Municipal BCO a letter requesting a determination whether a revision of approved plans will be required.

Two (2) sets of drawings, one (1) site plan and one (1) set of specifications must be included in the application package. In addition, using the sheets provided in this document (see pages 39 and 40), we must receive the design assumptions and phased approval certification required for all shell building approvals.

# II. Design Parameters:

Using page 39 (make multiple copies if required, **numbering them in sequence**):

- 1. Stipulate the anticipated uses and anticipated number of occupants, per each floor in the shell building.
- Stipulate any anticipated special conditions that have been designed into this shell building.
- 3. Provide the design parameters for <u>each</u> of the following:
  - Structural loads
  - Egress Units
  - Electrical Rough-Ins
  - Mechanical Rough-Ins
  - Plumbing Rough-Ins

Review of the construction documents will not be initiated, if these items are not addressed in detail and submitted with all other required items.

# **III.** Phased Approval Certification:

Technically, a building shell approval is a phased approval. Thus, it is imperative that both the design professional and building owner(s) agree to the terms of this limited approval by submitting page 40 of this document as part of the application package.

Review of the construction documents will not be initiated, if this form is not completed and submitted with all other required items.

# IV. Site Plans and Construction Drawings Requirements

# **SITE PLANS**

- a. Site plans shall be prepared to scale (not less than 1"=20'), with legend, north arrow, and <u>separate</u> vicinity (site location) map.
- b. Show the correct street address, parcel number and required municipal zoning (if there is local zoning ordinance) on the site plans.
- c. Show and identify all property lines and rights-of-way, with distance from property lines and adjacent buildings on site plans.
- d. Show all accessible parking spaces and signage per ICC/ANSI A117.1 and the *International Building Code* on site plan.
- e. Show accessible curb cuts, ramps and access ways to the building.
- f. Show all proposed driveway entrances.
- g. Identify adjacent land uses and zoning.
- h. Show all easements, flood ways, and required buffers.
- i. Show existing and proposed utilities (with backflow preventers) to serve the site.
- j. Show existing and proposed finish grades.
- k. Show details, sections, and elevations needed for construction.
- I. Show all buffer and screening landscaping.
- m. Show all required parking and loading spaces and calculations.

# **ARCHITECTURAL PLANS**

- a. Show architectural floor plans of each floor. These pages must be at least 18" x 24" in size (but not more than 36" x 42"), drawn to a scale of not less than 1/8" = 1'. Indicate (or reproduce) the approved, tested hourly rating, number and location of all rated members and assemblies (walls, columns, beams, floor and ceiling, and ceiling and roof fire-rated design assemblies).
  - Show all fire-rated walls (both existing and new) with their ratings, if not shown elsewhere. Drawings submitted without required fire-rated walls shown will be rejected.
- b. Show the square footage of each floor on the corresponding floor plans.
- c. Furnish door schedule(s), including size, type, rating (if any) and hardware.
- d. Provide all window schedules.
- e. Show elevations with dimensions defining overall building height, floor-to-floor heights, or heights to ridge and eave as applicable to the type of building construction listed on the UCC application. (Note: Where an existing building is involved, photographs of all sides of the building may be submitted to show elevations. These will be acceptable only if they show all elements necessary to determine compliance with the UCC.)
- f. Provide basement percentage-below-grade calculations.
- g. Indicate roof slopes, drainage system and sized through wall scuppers, if applicable to the project.
- h. Show wall sections with proposed material sizes, construction and fire-rated assemblies.
- i. Show proposed plumbing fixtures and privacy screens on the plans.
- j. If masonry construction is proposed, include the following information:

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 Type of brick ties and spacing of weep holes
 Control joints
 Placement of wall flashing and reinforcement

k. If appropriate for the proposed occupancy, plans should identify all hazardous material control areas, fire barriers and the required fire-resistance ratings for these barriers. All identified control areas shall list the name, class, quantity and method of storage of all hazardous materials processed, manufactured or used in a manufacturing process and contained within its fire barriers. Provide a

Material Safety Data Sheet for each listed hazardous material. See sections 414 and 415 of the *International Building Code.* 

- I. Show the floor slab vapor barrier.
- m. Show foundation water-proofing, if applicable.
- n. All penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed the rating of construction being penetrated. The penetration details shall be exactly as tested by an approved testing laboratory or agency and shall include their system numbers. New penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs.
- o. Show penthouse drawings.
- p. Provide on the drawings the calculations for the means of egress widths for the entire floor occupancy load and the existing capacity of all exits including all stairs, doors, corridors and ramped exits.
- q. Show required ventilation louvers and vent sizes.

### STRUCTURAL PLANS

- a. Show foundation plans indicating the proposed slab elevations and type of foundation (i.e., mat foundation, caissons, spread footings, etc.).
- b. Provide preliminary soil analysis data done by a licensed engineer, if required.
- c. Indicate dimensions of foundations.
- d. Show type, size and location of piling and pile caps for pile foundation.
- e. Indicate grade beam sizes.
- f. Indicate a footing schedule defining footing sizes and the required reinforcing.
- g. Show the established footing depth below grade and method of frost protection allowed in section 1805.2.1 of the *International Building Code*.
- h. Indicate the thickness of the floor slab, size of reinforcing, slab elevations, and type and details of foundations.
- i. Indicate location, size and amount of reinforcing steel.
- j. Show foundation corner reinforcing bars and minimum overlapping (as applicable to project structure).
- k. Provide strength of concrete according to designed soil reports.
- I. Show beams, joists, girders, rafters, and/or truss layouts and details of connections, structural steel stud gage, gage size, and connections.
- m. Indicate the sizes and species of all wood members and their respective design strength.
- n. Show all columns, girders, joists, purlins, beams and base plates; for wood construction show all headers.
- o. Provide a complete lintel schedule.
- p. Indicate the type of anchoring for steel bearing directly on masonry.
- q. Indicate design dead and live, wind, snow, seismic loads for floor areas, roofs, balconies, porches, breezeways, corridors, stairs, mezzanines and platforms. Show concentrated loads, i.e. file rooms, machinery and forklift areas, if greater than those shown on the Code Summary Sheet. Identify shear walls, bracing, strapping fastening, reinforcement and any special anchoring required.
- r. Where applicable, indicate on roof framing plan where concentrated loads (mechanical equipment, cranes, etc.) will be placed.
- s. Indicate on foundation and framing plans the location and lateral load resisting system. (Show walls, braced frames, moment connections, etc.)

# **FIRE PROTECTION PLANS**

Typically, shop drawings for sprinkler systems are not available at the time of initial plan submission. If sprinklers will be required as part of fire protection required in this shell building, note the following:

- These shop drawings must be submitted for review and approval at least two weeks before the projected installation date.
- Failure to obtain approval of these drawings before installation could result not only in delay of the final inspection and issuance of an occupancy permit, but also in removal and reconstruction of installations which fail to meet UCC requirements.

### **PLUMBING PLANS**

To the extent known:

- a. Show a site utilities plan, if not provided with the civil drawings.
  - 1. Show the domestic water, fire, and irrigation services.
  - 2. Show the location of water meters, backflow protection type and location.
  - 3. Show the sanitary sewer service from building to public sewer or approved private sewage disposal system.
- b. Show interceptors as applicable to project and size by flow rate. (i.e., grease, oil, lint, acid, sand).
- c. Provide plumbing plan layouts for each floor. These should show the water distribution and drain-waste-vent piping, and all details, notes, legends, and schedules necessary to define the system being installed.
- d. Show the location of all major components required for a complete system.
- e. Provide fixture and equipment schedule showing fixture number, detailed description, hot water, cold water, waste and vent connection sizes and other pertinent data.
- f. Identify all fixtures on floor plans and in riser diagrams with the plumbing fixture schedule number.
- g. Supply and Waste/Vent piping shall be shown on the floor plans. All pipe sizes shall be clearly shown. In congested areas (e.g., restaurants, grocery stores, etc.), isometrics are required.
- h. On buildings two stories and above, provide isometric diagrams and/or schematic riser diagrams for Supply and Waste/Vent piping and identify the risers by number (e.g., R1, R2, etc.). Show where all riser base terminations connect to the building drain, along with all interconnected piping on each floor plan. All pipe sizes shall be clearly defined.
- i. Show the water, sanitary drain-waste-vent piping and storm leaders/drains. Indicate sizes and materials for above/below grade.
- j. Show slope of horizontal sanitary and storm drains that equal or exceed 3" diameter, if less than 1/8" per foot.
- k. Indicate roof drains and emergency roof drains/scuppers with the areas they impact. Note that "emergency" = "secondary" = "overflow," see following roof drainage examples:

Roof Drain - 6" RD (16880 SF)

Emergency Roof Drain - 6" ERD (8180 SF)

Parapet Wall Scupper - 8" x 5" WS (4000 SF)

Emergency Scupper - 8" x 7" ES (4200 SF)

- I. Show toilet room layouts with minimum of  $\frac{1}{4}$  " = 1 foot scale.
- m. Show drinking fountain locations.
- n. Provide minimum facilities calculations.
- o. Column line notations, if provided on the architectural/structural plans, shall be indicated on the plumbing plans.

### **MECHANICAL PLANS**

To the extent known:

- a. Show all required wall louvers, penetrations and fans.
- b. Show all mechanical equipment, piping, ductwork (above/below slab) on the mechanical floor and/or roof plan.
- c. Provide mechanical plans for each floor and the roof. These shall show the ductwork layouts, schedules, notes, legends, piping schematics, and details necessary to define the system being installed.
- d. Indicate air distribution devices and show cfm for all supply, return and exhaust devices.
- e. Indicate the location of all equipment components required for a complete system.
- f. Show the smoke ventilation of atriums and pressurization of high-rise stairwells.
- g. Show condensation drains, primary and secondary, from the unit to the point of discharge.
- h. Indicate toilet exhaust requirements.

- i. Show mechanical room layouts at sufficient scale for dimensions and details to be ascertained.
- j. Show the size of duct runs.
- k. Indicate controls for fan shutdown: emergency manual and automatic smoke detection.
- I. Show the location of all UL 555-certified fire dampers, ceiling radiation dampers, smoke dampers, and fire doors.
- m. Show all fire-rated walls (both existing and new) with their ratings on the mechanical plans.
- n. All penetrations of fire-rated construction must be per manufacturer's details.
- o. Provide outside air ventilation rate per the *International Mechanical Code*.
- p. Column line notations, if provided on the architectural/structural plans, shall be identified on the mechanical plans.
- q. Provide gas piping layout on the floor plan for each floor. If it is a multi-story building, all gas piping shall be shown per floor. Include pipe sizes, water column, and type of material. Provide a schedule of connected equipment, total BTUH demand, total equivalent length, and most remote gas appliance.

### **ELECTRICAL PLANS**

### To the extent known:

- a. Provide panel schedules with circuit and feeder loading, overcurrent protection, and NEC load summaries for all new and/or affected panels and services (loading has to be evaluated by highest phase); include fault current data, short circuit ratings and fault current protection co-ordination.
- b. Provide a single line riser diagram showing all new and/or affected services, feeders, wire sizes and insulation types, and conduit sizes and types.
- c. Indicate number of services and their physical locations; clearly indicate mains and characteristics.
- d. Indicate the grounding electrode conductor size with new and/or affected services and transformers; where necessary provide details or notes on methods.
- e. Show physical locations of all new and/or affected panels and switchgear (indicate front).
- f. Indicate receptacle plans with circuitry.
- g. Indicate lighting plans with circuitry.
- h. Show electrical plans for each affected floor, including the roof.
- i. Show wiring method(s), conduit sizes and types, termination temperature (60,75,90) requirements, conductor sizes and insulation types.
- j. Indicate the design and/or operation for any of the following applicable life safety systems: emergency generators, smoke evacuation, shaft pressurization and relief, smoke detection, egress and emergency lighting, and fire alarms.
- k. Indicate how special needs such as classified (hazardous), corrosive and patient care are treated. Provide detailed plan of classified areas, the classifications and how complied with (i. e. hangers, waste treatment and collection, flammable dusts, gases or liquids, spray booths, vehicle servicing and parking, etc.).
- I. Provide all HVAC nameplate data, including MCA and MOCP. List all other appliance and/or equipment (other than those which will be connected to a general use receptacle) with nameplate data (i.e., voltage, phasing, HP, KVA, FLA, RLA, etc.).
- m. Indicate all motor horse power ratings, if not supplied elsewhere.
- n. Indicate the certified testing laboratory or agency (e.g., UL), their test # and hourly ratings of all new and/or affected rated members and assemblies (i.e. columns, beams, floor/ceiling, and ceiling/roof fire-rated design assemblies). Show all new and/or affected fire-rated walls with their ratings, if not shown elsewhere.
- o. Provide all applicable *International Energy Conservation Code* compliance data on the Building Code Summary sheet or on the electrical plans.
- p. All submittals should include a listing and labeling statement. (All electrical materials, devices, appliances and equipment shall be labeled and listed by a certified testing laboratory or agency.)

DESIGN BASIS DOO Project/Building Name: Project Address:	CUMENTATION (Shell Building)
Name(s) of Building Owner(s):	Telephone:
Design Professional Name:	Contact Information for Design Professional: Telephone:
	Fax:E-mail:

Project/Building Name: Project Address:	ION CERTIFICATION (Shell Building)
Name(s) of Building Owner(s):	Telephone:
Design Professional Name:	Contact Information for Design Professional: Telephone: Fax: E-mail:
By signing this document, we acknow conditions:	ledge and agree to abide by the following terms an
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Date: