



## TOWN OF ISLIP

## DEPARTMENT OF PLANNING & DEVELOPMENT Building Division

Permits ..... 224-5466  
Records/Inspections..... 224-5470  
Plans Examiners ..... 224-5467

### COMMERCIAL BUILDING PLANS EXAMINERS OFFICE

#### *INSTRUCTION SHEET FOR REGISTERED DESIGN PROFESSIONALS FOR NEW COMMERCIAL BUILDINGS 2017 NY STATE UNIFORM CODES*

1. The Town of Islip structural affidavit form must be fully completed and submitted for all new commercial buildings and additions in order to receive a building construction permit.
2. Site Plan with meets/bound, utilities, all setbacks of yards/buildings including from centerline of streets, subject and adjacent building locations and dimensions, hydrants, utilities, fire department access roads, elevations, topography and parking.
3. Energy Code – show full compliance on the construction documents and MEP plans with the 2017 NYSECCC and the 2017 NYSECCC Supplement (Revised August 2016). Select which code is to be used, method and format of compliance and compliance path chosen. Residential buildings up to 3 stories shall use the reference standard 2015 IECC 2nd printing as amended by the 2017 NYSECCC Supplement. Refer to the Town of Islip Energy Code bulletin for further information and requirements.
4. Special Inspection Documents shall be submitted as per the reference standard 2015 IBC 3<sup>rd</sup> printing sections 1704.2, 1704.2.3, 1704.3 and 1704.4. The architect or engineer (not the owner or contractor) shall prepare and submit a special inspection statement listing all required inspections. This is a stand-alone document.
5. Town of Islip plan review notice must be on the title sheet of each trade.
6. Town of Islip New York State Building Code evaluation summary (TOIBES) shall be completed and made part of the construction plans. See accompanying sheets.
7. The actual design, detailing and comparison loads of structural members, wind and seismic force resisting systems lateral force resisting systems including design of resisting connections and connections for CLP shall be shown on the structural construction documents as required by the reference stand 2015 IBC 3<sup>rd</sup> printing. Elevations of wood and steel shear walls for each story shall be shown on the plans indicating if segmented, perforated or perforated with force transfer. The wall height, length and segment length, height to width ratio and all openings shall be dimensioned. Required type and hold down locations shall be shown. These shear walls shall be matched to and located on the floor plans with lengths, hold down location and placement shown.
8. Submit signed and sealed wood and steel truss designs and connection drawings. A truss sign permit application with actual sample of truss sign and payment of \$50 dollars is required and must be approved by a qualified employee of the Town of Islip Building Division prior to the release of the building permit.
9. Plans shall not exceed a size of 24" x 36".
10. Other Agencies involved, Appendix S review required. See NYS DOS BSC technical bulletin.

**1 Manitton Court • Islip • New York 11751**  
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Building Division**

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TOWN OF ISLIP  
STRUCTURAL DESIGN AFFIDAVIT

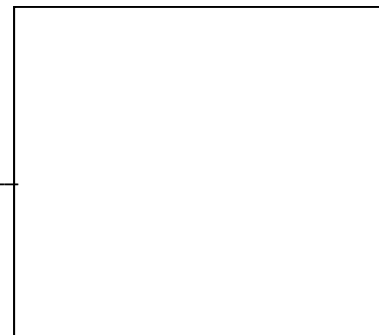
The New York State Licensed design professional who is responsible for the structural design of new building construction at the site as indicated hereon shall complete this affidavit as a condition of building permit issuance as per section 107.2 of the 2017 NYSUC and 2017 NYSUC Supplement. The New York State licensed design professional shall sign and affix an original seal to this affidavit as well as having done so in front of a notary public who shall also sign and date this affidavit.

Building Construction permit application no. \_\_\_\_\_  
Construction site address \_\_\_\_\_

I, the undersigned, am an  New York State Licensed Architect  New York State licensed Professional Engineer, being duly licensed in the State of New York whose license is in current good standing, hereby certifies that to the best of my knowledge, information and belief, the structural plans and computations are in compliance with the Building Code of New York State and further certify that:

1. All actual and allowable loads and deflections have been addressed and are indicated in the plans and computations as required by the Building Code of New York State.
2. All structural members and connections have been designed and detailed as indicated on the plans and computations so as to provide a continuous load path from the top of the structure down to the foundation as required by the reference standard 2015 IBC 3<sup>rd</sup> printing as amended by the 2017 NYSUC Supplement.
3. That I have analyzed the building for both the maximum wind and seismic forces and have provided structural systems and connections to resist these forces as indicated on the plans and computations as required by the Building Code of New York State.
4. That shear walls have been designed and detailed and are in compliance with section 2305 for wood, with section 2211 for cold formed steel and section 2101.2 for masonry of the reference standard 2015 IBC 3<sup>rd</sup> printing as amended by the 2017 NYSUC Supplement. I further state that I understand the Code Enforcement Official will rely upon this affidavit and that I agree to assume full responsibility for the compliance with all provisions of the Building Codes of New York State and that I further agree to hold the Town of Islip harmless from any claims of any parties arising out of the submitted plans and computations submitted herewith, including any changes that may subsequently be made to these documents.

Engineer/Architect Name \_\_\_\_\_  
Engineer/Architect Firm Address \_\_\_\_\_  
Engineer/Architect Firm phone number \_\_\_\_\_  
New York State License No. \_\_\_\_\_  
Original seal or embossed seal with signature thereon \_\_\_\_\_



Notary information:  
Date \_\_\_\_\_

Then personally appeared above-named \_\_\_\_\_ and made oath that above statement is true.  
Before me, signed \_\_\_\_\_  
Notary name and commission expires \_\_\_\_\_



**TOWN OF ISLIP  
BUILDING  
Building Division**

**2017 TOWN OF ISLIP NYS  
CODE EVALUATION**

Date:		Revised Date:	
(Address)			
Building Name(s):		Building Numbers:	
Project Title:			
Architect/Engineer:			
Code Enforcement Jurisdiction: <input type="checkbox"/> Town of Islip		Variance Requested: <input type="checkbox"/> Yes <input type="checkbox"/> No	
2015 IBC Chapter 3 Occupancy Classification(s):		2015 IBC Chapter 6 Construction Classification:	
(Group I condition):			
Work Involved: Check all that apply.	<input type="checkbox"/> General Construction	<input type="checkbox"/> Structural	<input type="checkbox"/> Site Work
	<input type="checkbox"/> Roofing	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Sprinkler
	<input type="checkbox"/> Asbestos Abatement/Environmental	<input type="checkbox"/> Plumbing	<input type="checkbox"/> Elevators
	<input type="checkbox"/> Fire Alarm	<input type="checkbox"/> Electrical	<input type="checkbox"/> Other _____
Statement of Special Inspections Required: Ref Std. 2015 IBC 3 <sup>rd</sup> printing sections 1704.2.1, 1704.2.3, 1704.2.4, 1704.3.1, 1705			
<p>Comments: Each trade title sheet shall note the currently adopted NY State Codes, Rules and Regulations as applicable. The current NY State adopted code is the 2017 NYSUC with the 2017 NYSUC Supplement and the 2017 NYSECCC with the 2017 NYSECCC Supplement (Revised August 2016). Adopted as references and amended and modified are the following standards. 2015 IBC 3<sup>rd</sup> printing, 2015 IRC 2<sup>nd</sup> printing, 2015 IPC 3<sup>rd</sup> printing, 2015 IFGC 3<sup>rd</sup> printing, 2015 IMC 3<sup>rd</sup> printing, 2015 IFC 3<sup>rd</sup> printing, 2015 IECC 2<sup>nd</sup> printing, ASHRAE 90.1 2013 (July 2014 printing), 2015 IEBC 5<sup>th</sup> printing, ICC ANSI A117.1 2009, ASCE-7 2010, ASCE-24 2014, ASME A17.1 2013 and CSA B44 2013, A18.1 2008</p> <p>Town of Islip IBC Geographic condition table must be on title sheets of architectural and mechanical plans. Town of Islip building review note shall be on each trade title sheet (see last page)</p> <p>See 2017 NYSUC Supplement for NYS required accessibility signs section IBC 202 as amended.</p>			

No	Topic	Building Code Section (unless otherwise noted)	Require d/ Allowed	Actual	How and where is compliance indicated
1	Fire Apparatus Access Road	FC503.1& Appendix D			<b>Must provide site plan showing roads and dimensions.</b>
2	High Rise Buildings	403			
	Construction	403.2			Indicate any reduction in Fire Ratings below
	Reduction in Fire Rating	403.2.1			
	Shaft Enclosures	403.2.1.2			
	Structural Integrity for Exit Stairway and Elevator Hoistway Enclosures	403.2.3			Provide Information for Risk Category III or IV and for all Buildings more than 420 ft. in height.
	Sprayed Fire-Resistant Materials	403.2.4			Indicate Bond Strength.
	Sprinkler Protection	403.3			
	Water supply for Fire Pumps	403.3.2			Indicate number of Water Supplies.
	Secondary Water Supply	403.3.3			
	Emergency Systems	403.4			
	Smoke Detection & Fire Alarm System	403.4.1,2			

	Standpipe System	403.4.3			
	Emergency Voice/Alarm Communication System	403.4.4			
	Fire Department Communication System	403.4.5			<input type="checkbox"/> Wired <input type="checkbox"/> Radio <input type="checkbox"/> Other
	Fire Command Center	403.4.6			
	Smoke Removal	403.4.7			
	Standby & Emergency Power	403.4.8			
	Equipment Room Separation	403.4.8.1			
	Fuel Line Piping Protection	403.4.8.2			
	Means of Egress: Remoteness of Exit Stairways	403.5.1			
	Smokeproof Enclosures	403.5.4			
	Luminous Egress Path Markings	403.5.5			
	Elevators	403.6			<input type="checkbox"/> Fire Service Access <input type="checkbox"/> Occupant Evacuation
3	Atriums	404			
	Sprinkler Protection	404.3			
	Fire Alarm System	404.4			
	Smoke Control	404.5			
	Enclosures	404.6			
	Standby Power	404.7			
	Travel Distance	404.9			
4	Class and MAQ Hazardous Materials Control Areas	307 414.2			Provide additional information indicating number, size, materials and how stored, and quantity of each material.
5	Dwelling and Sleeping unit separation	420.2 & 420.3			
	Dwelling and Sleeping unit Fire Alarm System & Smoke Alarms	420.6			
	Healthcare Facilities	427			See item 3.3 2017 NYSUC Supplement
6	Building Area & Height	503-507			Provide information in Attachment 1.
7	Mezzanines/Equipment Platforms	505			
8	Mixed Occupancies:	508			Provide analysis and equations
	Accessory Occupancies	508.2			
	Nonseparated Uses	508.3			
	Separated Uses (Ratio $\leq$ 1)	508.4			(for multiple story buildings, show compliance with IBC sections 506.2.4 and 506.2.4.1)
9	Incidental Uses:	509			
10	Exterior Wall Fire-Resistance Rating	602.1 Table 602			( see item #3.4 2017 NYSUC Supplement)
11	Fire Resistive Construction	701-703			Fire resistive rating and required testing
	Exterior Wall: Allowable Area of Openings:	705.8			Provide analysis. Amended item #3.5 2017 NYSUC Supplement

	Unprotected	705.8			
	Protected	705.8			
	Exterior Wall: Vertical Separation of Openings	705.8.5			
	Parapets	705.11			
	Fire Walls	706			Separates a structure into buildings
	Fire Barriers	707			(used in lieu of fire protection systems 901.7)
	Fire Partitions	708			
	Smoke Barriers	709			
	Smoke Partitions	710			
	Horizontal Assemblies	711			
	Vertical Opening	712			
	Shaft Enclosures	713			
	Penetrations	714			
	Joint Systems	715			
	Opening Protectives	716			(see amendment #3.6 2017 NYSUC Supplement)
	Ducts and Air Transfer Openings	717			
	Concealed Spaces	718			(provide details on plans)
	Prescriptive Fire Resistance	721			Provide Specific item numbers from Tables
	Calculated Fire Resistance	722			Provide Specific Components and Calculations from Tables
12	Interior Finishes	801.1			
	Wall & Ceiling: Exits	803.11 Table 803.11			
	Wall & Ceiling: Corridors	803.11 Table 803.11			
	Wall & Ceiling: Rooms/Spaces	803.11 Table 803.11			
	Floors	804			
	Combustible Decorative Materials	806.3			Provide Percentage of combustible decorative materials
13	Fire Protection: General	901.1			
	Sprinkler System Stories and basements without openings	903 903.2.11.1			Indicate Type of Sprinkler System <input type="checkbox"/> NFPA 13 <input type="checkbox"/> NFPA 13R <input type="checkbox"/> NFPA 13D See amendment #3.7 2017 NYSUC Supplement (13R decks and balconies protected)
	Alt. Fire Extinguishing System	904			
	Standpipe System	905			
	Portable Fire Extinguishers	906			
	Fire and Smoke Alarm Systems	907.1 907.2 907.4			Indicate Type of Fire Alarm System <input type="checkbox"/> Addressable <input type="checkbox"/> Conventional (zoned)

	Smoke Detection System	907.2.11			
	Occupant notification	907.5			
	Emergency voice	907.5.2.1			Indicate the number accessible and hearing impaired rooms to be provided with visible appliances
	Visible alarms	907.5.2.2 907.5.2.3 Appendix E Table E104.2.1			
	Smoke Control	909			
	Smokeproof Enclosure/ Stair Pressurization	909.20			
	Smoke and heat removal	910			
	Fire Command Center	911			
	Fire Department Connections	912			
	Fire Pumps	913			
	Equipment room Identification	914			
	Carbon Monoxide Detection  (IBC 2015 section 915 amended by item 3.10 of the 2017 NYSUC Supplement)	915/FC915			Indicate the Type of CO Detection <input type="checkbox"/> Independent CO System <input type="checkbox"/> CO Alarms <input type="checkbox"/> CO Detection connected to FACP <b>2017 NYSUC Supplement IFC item #7.21 amend IFC new section 915.2 residential and 915.3 commercial carbon monoxide alarms required.</b>
	Combustible High Racking	IFC Chapter 32			Submit Town of Islip Combustible High Racking Forms and plans
14	Means of Egress	1001.1			Provide information in Attachment 1.
	Common Path of Egress	1006.2.1, Table 1006.2.1			
	Single Exits	1006.3.2			
	Emergency Lighting	1008.3			
	Accessible Means of Egress	1009.1			
	Elevator Required	1009.2.1			
	Elevator accessed from "area of refuge"	1009.4			
	Area of Refuge	1009.6			
	Controlled Egress Doors (I-1 & I-2 only)	1010.1.9.6			
	Delayed Egress Locks	1010.1.9.7			
	Panic Hardware	1010.1.10			
	Stairways width, riser and opening, tread and heights	1011			
	Ramps	1012.1			
	Exit Signs	1013.1			
	Handrails	1014.1			
	Guards	1015.1			
	Mechanical Equipment Guards	1015.6			

	Window Opening Control Devices and Guards	1015.8			
	Exit Access	1016.1			
	Exit Access Stairways	1019.1			(must lead to and meet travel distance as per section 1017.2 to an exit)
	Corridor Fire Rating	1020.1			
	Corridor Width	1020.2			
	Dead End Corridor	1020.4			
	Air Movement in Corridor	1020.5			(see also IMC section 601.2 to be addressed on HVAC plans)
	Corridor Continuity	1020.6			
	Exit Fire Rating	1023.2			
	Smokeproof Enclosure	1023.11			
	Exit Passageways	1024.1			
	Luminous Egress Path Markings	1025.1			
	Horizontal Exit	1026.1			
	Exterior Stairs	1027.1			
	Exit Discharge	1028.1			
	Assembly Bleachers	1029 303.6 1029.1.1 (ICC 300)			Must be handicapped accessible and provide wheelchair accommodations at field level
	Emergency Escape & Rescue Required	1030.1			
15	Accessibility (Appendix E)	1101.1 ICC/A117.1 (2009)			
	Accessible Route	1104.1			
	Accessible Entrance	1105.1			
	Parking	1106.1			(amended and added sections 2017 NYSUC Supplement IBC item #3.11)
	Parking Access Aisle	1106.1.1			(added requirement 2017 NYSUC Supplement item #3.12)
	New International Parking Accessibility Signage	1106.8			( added as well as sign definition section 202 item #3.2 and item #3.11 2017 Supplement)
	Dwelling & Sleeping Units	1107.6			Indicate type of occupancy and number of accessible units. (section was amended and added sections see 2017 NYSUC Supplement item #3.14 & 3.15)
	Type B unit Doors	1107.2.1			Added section item #3.13 2017 NYSUC Supplement) Show clear floor spaces on plans as per ICC A-117
	Required Type B Residential Unit Toilet	1107.2.2			Added section requires all toilets to be Type A toilet as cited in added section as per item

					#3.13 2017 NYSUC Supplement show ICC A-117 details on plans
	Toilet Rooms	1109.2			(accessible fixtures required)
	Platform Lifts	1109.8			
	Accessibility Signage Locations	1111.1			
16	Interior Environment	1201			
	Ventilation R Occupancies (See other for 2017 NYSECCC Requirements)	1203			(In "R" occupancies up to 3 stories mechanical ventilation shall be provide as per section 1203.1 as per amended 2015 IECC section R402.4.1.2. See 2017 NYSECCC supplement item #11 and 12. Mechanical ventilation shall be provided as per the 2015 IMC as amended see sections 401.2, 403.1, 403.3 and 403.3.2 and Chapter 6. System design and calculations shall be submitted. Systems shall be clearly identified including operations and controls on the construction documents.
	Ventilation Commercial Occupancies (Including "R" Occupancies over 3 stories)	IMC 401.2 IMC 403.3.1 IECC C403.2.6			2015 IMC as amended by the 2017 NYSUC Supplement. 2015 IECC as amended by the 2017 NYSECCC Supplement. Submit calculations.
	Unvented Attic & Enclosed Rafter assemblies	1203.3			
	Light: Natural/Artificial	1205			
	Sound Transmission	1207			
	Ceiling Heights	1208.2			
	Toilet & Bathroom Requirements	1210.1			
17	Energy Conservation 2017 NYSECCC and 2017 NYSECCC Supplement (August 2016) Choose either reference 2015 IECC or ASHRAE 90.1 2013(July 2014 printing) for commercial. 2015 IECC for R occupancies up to 3 stories	1301/ECC - See 2017 NYSECCC and 2017 NYSECCC Supplement cite the Energy Compliance paths of each reference chosen for compliance			Provide information in Attachment 2. As prescriptive Ua alternate compliance, latest version of Comcheck and/or Rescheck or other as approved by NYS for envelope compliance only. Still required to comply with energy code paths and all MANDATORY compliance. Building systems for heating, cooling, hot water and electric energy code compliance plans required. See Town of Islip 2017 NYSECCC bulletin for further requirements.
18	Roof Assembly Fire Classification	1505.1			
	Roof Covering	1507.1			
	Reroofing	1511			



	Photovoltaic Panels 2015 IFC required roof ventilation	1512 (See IBC) 605.11.1.3.3			(See 2015 IFC 2017 NYSUC Supplement item #7.16 for amendments and added sections to IFC section 605)
19	Structural Requirements	1603.1/1604.5			Provide information in Attachment 1. Use link below.
	Ground snow loads	1608			See above and item #3.18 2017 NYSUC Supplement
	Flood loads and design elevation	1612			See items #3.20 and 3.21 2017 NYSUC Supplement and the Town of Islip Land Use Regulation Book/Zoning Code for additional requirements
	<b>Conventional Wood Frame Construction</b>	<b>2308.1 and 2308.2</b>			<b>If in compliance with sections noted, conventional framing as per this chapter may be used and no further special engineering is required</b>
	Truss Type, Pre-Engineered Wood or Timber Construction	Part 1264/1265			Provide information in Attachment 1. Submit signed and sealed truss design drawings with all required information, connections and placement plan Truss sign permits required before building permit issuance.
20	Foundation	1803 - 1810			Provide information in Attachment 1. Soil borings and information shall be submitted.
21	Glazing Identification	2403.1			
	Safety Glazing	2406.1			
22	Foam Plastic Insulation	2603			
	Thermal Barrier	2603.4			
23	Electrical	2701.1			
	Emergency & Standby Power	2702.1			
	Elevator & Platform Lifts	2702.2.2			
	Exit Signs	2702.2.5			
	High Rise Building	2702.2.9			
	Means of Egress	2702.2.11			
	Smoke Control Systems	2702.2.15			
24	Mechanical Systems	2801.1IBC			(2015 IMC as amended by the 2017 NYSUC Supplement)
	Fire & Smoke Dampers	717.5 IBC			Refer to 717.5 for specific requirements.
	Fan Shutdown	IMC606.4			
	Combustion Air	IMC701.1 & FGC304.1			Submit calculations
	Chimneys, Flues & Gas vents	IMC801.1 & IFGC501.1			Provide diameter of chimney/gas vents.
25	Gas Piping Sizing Material	IFGC402 IFGC403			Submit gas riser with fixture info and calculations

26	Plumbing	2901.1			
	Fixture Count	2902.1			Provide information in Attachment 1.
	Building Supply System Design and Street Pressure	IPC 604(all)			Note tables, capacities, demands on supply riser (New Table 604.4 2017 NYSUC IPC item #4.3)
	Water Supply Materials	IPC 605			
	Fixture Units	IPC 709.1			Note on sanitary riser
	Backwater prevention	IPC 715			Location on plans
	Drain pipe Sizing	IPC 710			Show table and branch.DFU with vent riser (Highlight rows and columns used -typical)
	Vent Pipe Sizing	IPC 906			Show table on sanitary riser
	Vent Extension Above Roof	IPC 903.1			See 2017 NYSUC Supplement IPC item #4.10
	House Traps	IPC1002.6			PROHIBITED
	Sanitary Piping Material	IPC 702			Show on sanitary riser
27	Elevator & Conveying systems	3001.1			
	Elevator Car sized to accommodate a Stretcher	3002.4			
	Elevator Emergency Operation	3003.2			
	Machine Rooms Fire Rating	3005.4			
	Elevator Lobbies	3006.1			
	Fire Service Access Elevators	3007.1			
	Occupant Evacuation Elevators	3008.1			
	Escalators	3004.2			
28	Special Construction Temporary Structures Membrane Structures	3101.1 3102 3103			Temporary Structures to be fully removed after 180 days.
	Pedestrian Walkways/Tunnels	3104			
	Awning and Canopies	3105			Submit construction plans
	Swimming Pool Enclosures Public Pools. SCHD permits required prior to issuance of a building permit.	3109.3			<b>See 2017 NYSUC Supplement items #18</b>
	Swimming Pool Accessibility	1109.13 exception #9 1110.2, 1110.4.13			<b>Show on plans</b>
	Swimming Pool Enclosures Residential Pools	3109.4			<b>See 2017 NYSUC Supplement items #18</b>
	Swimming Pool Entrapment protection	3109.6			<b>See 2017 NYSUC Supplement items #18</b>
	Swimming Pool Alarms	3109.7			<b>See 2017 NYSUC Supplement items #18</b>

**SEE ATTACHMENTS #1 AND #2**

Building Plan Review Note

Town of Islip Building Plans Examiner shall review the enclosed document for minimum acceptable plan submittal requirements of the Town of Islip as specified in the Building and/or Residential Code of the State of New York. This review does not guarantee compliance with that code. The seal and signature of the design professional has been interpreted as an attestation that, to the best of the license's belief and information, the work in the document is:

- Accurate
- Conforms with governing codes applicable at the time of submission
- Conforms with reasonable standards of practice and with view to the safeguarding of life, health, property and public welfare.
- Is the responsibility of the licensee.



ATTACHMENT#1

Note that this attachment must be printed separately from the main Code Compliance Review form.

Form with fields: Date, Revised Date, Address, Project Title, Architect/Engineer, and Comments: Building design structural calculations shall be provided for all buildings over two stories in height

ADDITIONAL INFORMATION

BUILDING AREA FACTORS (503/506)

Check One: (NS)Non-Sprinklered (S1)Sprinklered One Story (SM)Sprinklered Multiple Stories (S13R)Sprinklered NFPA 13R system (IBC section 507 Unlimited Area)

Table with 5 columns: STORY NO., BLDG AREA PER STORY (ACTUAL), TABLE 506.2 FACTOR, FRONTAGE INCREASE, ALLOWABLE AREA \*

Frontage increases from Section 506.3 are computed thus:

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter= (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W) or Weighted average = (W)
e. Frontage increase If = [F/P - 0.25] x W/30 =
f. Area weighted formula equation 5-4 W= (L1 x w1 + L2 x w2 + L3 x w3...)/F

ALLOWABLE BUILDING AREA (506) REFER TO EACH SECTION FOR INSTRUCTIONS\*

Section 506.2.1 Allowable Building Area for a Single-occupancy, one story building

Equation 5-1 Aa = At + (NS x If)

Section 506.2.2 Mixed-occupancy, one story buildings

See section 508.1 and use equation 5-1

Section 506.2.3 Single-occupancy, multistory buildings

Equation 5-2 Aa = [At + (NS x If)] x Sa

506.2.4 Mixed-occupancy, multistory buildings

Based on section 508.1 and equation 5-3 Aa = [At + (NS x If)]

Note: All calculations to determine building areas shall be submitted. For mixed use submit area ratios for each story.

Table with 2 columns: ACTUAL: bldg./sty, ALLOWABLE: bldg./sty

ALLOWABLE HEIGHT (503/504)

	ACTUAL HEIGHT IN FEET	ALLOWABLE (TABLE 504.3)	ACTUAL HEIGHT IN STORIES	ALLOWABLE (TABLE 504.4)
Building Height	Feet:	Feet:	Stories:	Stories:

**STRUCTURAL DESIGN**

**DESIGN LOADS:**

**Section 1603.1 Required information on construction documents  
(Denote if design is based on open or enclosed, restrained or unrestrained)**

**Risk Category (1604.5):** \_\_\_\_\_

**Live Loads (1607):** Roof \_\_\_\_\_ psf Photovoltaic Panels  Yes  No Occupiable roof  Yes  No  
 Floor \_\_\_\_\_ psf

**Ground Snow Load (1608):** \_\_\_\_\_ psf (ASCE-7-10 or Figure 1608.2 2017 NYS Supplement)

**Wind Load (1609):** Basic Wind Speed \_\_\_\_\_ mph (Town of Islip 130mph Vult)  
 Exposure Category \_\_\_\_\_  
 ASCE-7-10 Method \_\_\_\_\_ (ASCE-7-10 Chapters 26 - 30)  
 Design Wind Load \_\_\_\_\_ (Attach Calculations)

**Soil Lateral Loads (1610):** \_\_\_\_\_ psf per foot of depth

**Rain Loads (1611):** \_\_\_\_\_

**Flood Hazard Area (1612, 2016 NYSUC Supplement):**  Yes  No If Yes, provide Flood Hazard Documentation (Chapter 5 of ASCE 7 and ASCE 24)

**SEISMIC REQUIREMENTS (1613/ASCE-7-10)**

**Occupancy Category** \_\_\_\_\_  
**Importance Factor** \_\_\_\_\_  
**Seismic Design Category** \_\_\_\_\_

**SEISMIC DESIGN CATEGORY A**

Compliance with ASCE-7-10 Section 11.7:  Yes  No

**SEISMIC DESIGN CATEGORY B, C, & D**

Provide the following Seismic Design Parameters:

**Basic structural system** (check one)

- |  |   |
|--|---|
| <input type="checkbox"/> Bearing Wall                | <input type="checkbox"/> Dual w/Intermediate Moment Frame |
| <input type="checkbox"/> Building Frame              | <input type="checkbox"/> Shear Wall-Frame Interactive     |
| <input type="checkbox"/> Moment-Resisting Frame      | <input type="checkbox"/> Cantilevered Column              |
| <input type="checkbox"/> Dual w/Special Moment Frame | <input type="checkbox"/> Inverted Pendulum                |

**Analysis Procedure:**  Simplified Alternative  Equivalent Lateral Force  Modal Response Spectrum  
 Seismic Response History

**Architectural, Mechanical, and Electrical Components anchored?**

**FOUNDATIONS (1801.1)**

**SOIL BEARING CAPACITIES:**

Field Test (provide copy of test report) \_\_\_\_\_ psf  
 Presumptive Bearing capacity \_\_\_\_\_ psf  
 Pile size, type, and capacity \_\_\_\_\_

**NUMBER AND ARRANGEMENT OF EXITS (1006/1007/1017)**

FLOOR, ROOM OR SPACE DESIGNATION PER STORY AND INCLUDING BASEMENTS	MINIMUM NUMBER OF EXITS (1006)		TRAVEL DISTANCE (1017.1)		REMOTENESS OF EXITS OR EXIT ACCESS DOORWAYS (1007.1.1)	
	REQ'D	ACTUAL (OR OPTIONS)	ALLOWABLE	ACTUAL	REQUIRED DISTANCE BETWEEN EXIT DOORWAYS	ACTUAL DISTANCE SHOWN ON PLANS

**OCCUPANT LOAD & MEANS OF EGRESS SIZING (1004/1005)**

USE GROUP OR SPACE DESCRIPTION	(a)	(b)	(c)	(d)		MEANS OF EGRESS SIZING (in)				DISTRIBUTION
	AREA sq. ft.	AREA PER OCCUPANT (TABLE 1004.1.2)	OCCUPANT LOAD (a÷b)	EGRESS CAPACITY PER OCCUPANT (1005.3)		REQUIRED WIDTH (1005.3.1, 1005.3.2) c x d		ACTUAL WIDTH SHOWN ON PLANS		LOSS OF ONE MEANS OF EGRESS
				STAIR	OTHER	STAIR	OTHER	STAIR	OTHER	

**NOTE – IBC SECTION 1005.5 DISTRIBUTION OF MINIMUM WIDTH AND REQUIRED CAPACITY.**  
**WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.**

**PLUMBING FIXTURE REQUIREMENTS (2902.1)**

OCCUPANCY	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS / TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE



ATTACHMENT #2

Note that this attachment must be printed separately from the main Code Compliance Review form.

Form with fields: Date, Revised Date, Project Address, Architect/Engineer, Comments. Includes a highlighted instruction: 'If multiple pieces of equipment, complete form for each equipment type.'

Note: All code citations given are to the 2015 IECC, ASHRAE 90.1-2013 & 2017 NYS Supplement to the Energy Conservation Construction Code.

COMPLIANCE METHOD

- Prescriptive: (If prescriptive method is used, complete all sections below)
Commercial 2015 IECC Chapter C4 as amended in the 2017 NYS Supplement
Performance: (All Mandatory Requirements shall be met)
2015 IECC Section C407:
(Attach Compliance report that indicates the energy cost is less than or equal to 85% of the standard reference design)
ASHRAE 90.1-2013 as amended in the 2017 NYS Supplement: Must be complied with in its entirety.

HISTORIC BUILDING: (2017 NYS Supplement Section C202) Yes No

ADDITIONS, ALTERATIONS OR RENOVATIONS IN EXISTING BUILDING: Yes No
(2015 IECC C501 amended in the 2017 NYS Supplement)

If yes, list building system(s) undergoing substantial alteration(s):

EXEMPT BUILDING: (2017 NYS Supplement Section C101.6) Yes No
If yes, describe exemption type:

PROJECT LOCATION: (2015 IECC Table C301.1)

County:

Zone:

BUILDING THERMAL ENVELOPE – OPAQUE ASSEMBLIES (2015 IECC section C402)

Fill in values below as applicable for thermal envelope compliance.

Occupancy Group (2015 IECC Section C402): Group R Other Group

Table with columns: Category (Roofs, Walls, Floors), U-Value, R-Value. Rows include Insulation entirely above deck, Metal Buildings, Attic and Other, Mass, Metal Building, Metal Framed, Wood Framed and other, Below-Grade Walls, Mass.



Joist/Framing: \_\_\_\_\_

Slab-on-Grade Floors:  
 Unheated slabs: \_\_\_\_\_  
 Heated slabs: \_\_\_\_\_

Opaque Doors:  
 Swinging: \_\_\_\_\_

Fireplaces:  Flue Dampers  Tight-fitting Doors  Outside Combustion Air

**FENESTRATION:** (2015 IECC Section C402.4 and 2017 NYS Supplement)

Vertical Fenestration (30% Maximum of gross above-grade wall)

Increased Vertical Fenestration area with Daylight Responsive Controls (40% Maximum of gross above-grade wall).

	<u>U-Value</u>
Framing other than metal with or without metal reinforcement of cladding:	_____
<u>Vertical Fenestration:</u>	
Fixed Fenestration:	_____
All other included Operable Fenestration:	_____
Entrance Door:	_____
<u>Solar Heat Gain Coefficient: Projection Factor</u>	<u>SHGC</u>
PF <0.2	_____
0.2 ≤ PF >0.5	_____
PF ≥0.5	_____
<u>Skylights: (3% Maximum)</u>	<u>U-Value</u> <u>SHGC</u>
Skylights:	_____    _____
(Increased Skylight Area with Daylight Responsive Controls: 5% Maximum)	

**AIR LEAKAGE:** (2015 IECC Section C402.5 and 2017 NYS Supplement)

Air Barrier  Yes  No Describe: \_\_\_\_\_  
 Vapor Retarder (2015 IBC 1405.3) Class: \_\_\_\_\_ Describe: \_\_\_\_\_

<u>Fenestration Assembly:</u>	<u>cfm</u>
Windows:	_____
Sliding Doors:	_____
Swinging Doors:	_____
Skylights (w/weepage openings)	_____
Skylights (all others)	_____
Curtain wall:	_____
Storefront glazing:	_____
Commercial glazed swinging:	_____
revolving doors:	_____
Garage doors:	_____
Rolling doors:	_____
High Speed doors:	_____
Outdoor air intakes & exhaust openings:	_____
Rooms containing fuel-burning appliances located outside or isolated from inside thermal envelope:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Air Intakes, Exhaust Openings, Stairways & Shafts provided with Shutoff Dampers:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Loading Dock Weatherseals:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Vestibules:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Recessed Lighting:	<input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____

**MECHANICAL, SERVICE WATER HEATING & ELECTRICAL SYSTEMS:**

(2015 IECC Sections C403/C404/C405/C406)

**Describe HVAC system(s) type:** \_\_\_\_\_

**Heating and cooling load calculations:** Attach calculations for all systems in accordance with ANSI/ASHRAE/ACCA 183.

Controls (C403.2.4): \_\_\_\_\_

- |   |   |
|---|---|
| <input type="checkbox"/> Thermostatic Controls                      | <input type="checkbox"/> Off-Hour Controls                            |
| <input type="checkbox"/> Shutoff Dampers                            | <input type="checkbox"/> Zone Isolation                               |
| <input type="checkbox"/> Snow and Ice-Melt System Controls          | <input type="checkbox"/> Freeze Protection System Controls            |
| <input type="checkbox"/> Economizer Fault Detection and Diagnostics | <input type="checkbox"/> Hot Water Boiler Outdoor Temperature Setback |

Demand Controlled Ventilation (C403.2.6.1): \_\_\_\_\_ Enclosed Parking Garage Ventilation Controls: \_\_\_\_\_

Energy Recovery Ventilation (C403.2.7): \_\_\_\_\_ Kitchen Exhaust System (C403.2.8): \_\_\_\_\_

Duct Work:  Low Pressure  Medium Pressure  High Pressure Duct Construction: \_\_\_\_\_

Duct insulation (C403.2.9): \_\_\_\_\_ R-value

Piping insulation (C403.2.10) R-value: Steam: \_\_\_\_\_ Hot Water: \_\_\_\_\_ Chilled Water: \_\_\_\_\_

Air System Design and Controls (C403.2.12): \_\_\_\_\_ Allowable Fan Motor Horsepower(C403.2.12.1): \_\_\_\_\_

Motor Nameplate Horsepower (C403.2.12.2): \_\_\_\_\_

Fan Efficiency (403.2.12.3): \_\_\_\_\_

Heating Outside a Building(C403.2.13): \_\_\_\_\_

Refrigeration Equipment Performance (C402.2.14): \_\_\_\_\_

Walk-in Coolers, Walk-in Freezers (C403.2.16): \_\_\_\_\_

Refrigerated Display Cases (C403.2.17): \_\_\_\_\_

Economizers (C403.3): \_\_\_\_\_

Air Economizer  Water-side Economizer

Hydronic and Multiple-Zone HVAC System (C403.4): \_\_\_\_\_

Fan Control:

Hydronic system controls (C403.4.2): \_\_\_\_\_

Hydronic heat pump system (C403.4.2.3): \_\_\_\_\_

Heat rejection (C403.4.2.3.2): \_\_\_\_\_

Part-load Controls (C403.4.2.4): \_\_\_\_\_

Complex HVAC Systems with Multiple Zones (C403.4.4): \_\_\_\_\_

Multiple Zone VAV System Optimization Control (C403.4.4.6): \_\_\_\_\_

Heat Recovery for Service Water Heating (C403.4.5): \_\_\_\_\_

Refrigeration Systems (C403.5): \_\_\_\_\_

**Design Values:** Heating Cooling

Indoor temperature: \_\_\_\_\_

Outdoor temperature: \_\_\_\_\_

**Equipment Performance (C404.2):** Fill in values below as applicable:

<u>Equipment Type</u>	<u>Size</u>	<u>Rating</u>	<u>Performance</u>
Water Heaters (Electric)	_____	_____	_____
Storage Water Heater (Gas)	_____	_____	_____
Instantaneous Water Heater (Gas)	_____	_____	_____
Storage Water Heater (Oil)	_____	_____	_____
Instantaneous Water Heater (Oil)s	_____	_____	_____
Hot Water Supply Boilers (gas & Oil)	_____	_____	_____
Hot Water Supply Boiler (Gas)	_____	_____	_____
Hot Water Supply Boiler (oil)	_____	_____	_____
Pool Heater (Gas & Oil)	_____	_____	_____
Heat Pump Pool Heater	_____	_____	_____
Unfired Storage Tanks	_____	_____	_____
Furnaces	_____	_____	_____
Chillers	_____	_____	_____
Condensers	_____	_____	_____
Cooling Towers	_____	_____	_____
Air Conditioners	_____	_____	_____

Time Switches  Pool Cover

Electric  Centrifugal

Air cooled  Water cooled

Air cooled  Water cooled

Air cooled  Water cooled

<u>Equipment Type</u>	<u>Size</u>	<u>Rating</u>	<u>Performance</u>		
Heat Pumps	_____	_____	_____	<input type="checkbox"/> Air cooled	<input type="checkbox"/> Water cooled
Package units	_____	_____	_____	<input type="checkbox"/> Groundwater	<input type="checkbox"/> Ground source
Unit heaters	_____	_____	_____	<input type="checkbox"/> Heating	<input type="checkbox"/> Cooling
Energy Recovery	_____	_____	_____	<input type="checkbox"/> Replacement	<input type="checkbox"/> New Construction
Fan system motors	Horsepower: _____	Constant Volume: _____	Variable Volume: _____		

**Lighting (C405.2):**

Building: \_\_\_\_\_

Interior lighting power: \_\_\_\_\_ W/ft<sup>2</sup>      Total Connected Interior Power: \_\_\_\_\_

Interior Lighting Controls: \_\_\_\_\_

Manual Lighting Controls: \_\_\_\_\_

Light Reduction Controls: \_\_\_\_\_

Automatic time switch control: \_\_\_\_\_

Occupancy Sensors \_\_\_\_\_

Daylight Zones \_\_\_\_\_      Sidelight Zones: \_\_\_\_\_      Toplight Zones: \_\_\_\_\_

Daylight Responsive Control: \_\_\_\_\_

Manual Daylighting control: \_\_\_\_\_

Automatic Daylighting controls: \_\_\_\_\_

Multi-level lighting controls \_\_\_\_\_

Exterior lighting power: \_\_\_\_\_ W/ft<sup>2</sup>

Exterior building grounds lighting: \_\_\_\_\_

Exterior lighting zone: \_\_\_\_\_

Exterior Lighting Controls: \_\_\_\_\_

Tandem wiring: \_\_\_\_\_

Exit Signs: \_\_\_\_\_

**Electrical Energy Consumption (Metering) (C405.6):**       Yes     No  
(Dwelling Units only)

**Electrical Transformers (C405.7):** \_\_\_\_\_ %Efficiency

**Electrical Motors (C405.8):** \_\_\_\_\_ %Efficiency

**Vertical & Horizontal Transportation Systems and Equipment (C405.9):** \_\_\_\_\_

**Additional Efficiency Package Options: (2015 IECC Section C406)**

Efficient HVAC Performance: \_\_\_\_\_

Reduced Lighting Power Density System: \_\_\_\_\_

Enhanced Digital Lighting Controls: \_\_\_\_\_

On-Site Renewable Energy: \_\_\_\_\_

Dedicated Outdoor Air System: \_\_\_\_\_

Reduced Energy Use in Service Water Heating: \_\_\_\_\_