



# **Energy Code: Supporting Documents How to Guide**

*Last Revised: 08.23.12*



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## SECTION 1: COMPLIANCE

Approved construction documents must accomplish the following in order to demonstrate that they comply with the New York City Energy Conservation Code (NYCECC):

- 1) Include construction drawings and information that support the energy values outlined in the energy analysis for the envelope systems, HVAC, service water heating systems, lighting and power systems
- 2) Show mandatory requirements not included in the energy analysis, which can include envelope sealing, controls and control narratives for mechanical and lighting systems, duct sealing, duct and piping insulation, interior and exterior lighting layouts and descriptions, dwelling unit meters, etc. See [1 RCNY §5000-01](#) for additional information
- 3) Establish what progress inspections must be performed during construction as required by Section BC 109.3.5 of the NYC Construction Codes, the NYCECC and as detailed in [1 RCNY §5000-01](#)

Remember, approved construction drawings provide the design for the contractor to perform his/her work and the basis for the progress inspector's inspections. The progress inspector is not required to consult the NYCECC but rather to evaluate the construction against the approved drawings.

## SECTION 2: KEY IDENTIFIERS

Identifiers for wall types, window types, equipment units, control types, lighting fixture types, etc., should be similar throughout the energy analysis, the supporting documentation and the drawings.

For example, the identifier "Roof Construction Type 1" in the energy analysis should be used also to identify that same roof construction in the roof plan and details, and "Lighting Fixture Type FL8" in the energy analysis should be easily identified in the legend and the lighting plans by the same identifier FL8.

## SECTION 3: ENVELOPE

Building wall sections must show insulation as required by the NYCECC and specify the R values required by the energy analysis in the energy analysis for the roof, walls, floors and/or foundation/basement/cellar insulation, see Figure 1 in the Appendix for more information. Details should show how to turn from one plane to another without losing continuity of insulation or air barrier, or compressing insulation, and where to seal areas as identified in Sections ECC 402.4 and 502.4 of the NYCECC and in ASHRAE 90.1 Section 5.4.

Door, window and skylight schedules must include columns for the required U factors, SHGC values, VLT values and projection factors where applicable, see Figure 2 in the Appendix for information. Notes and details should show thorough sealing to prevent air leakage.

#### **SECTION 4: HVAC/SERVICE WATER HEATING**

Equipment sizing and efficiencies as required by Sections ECC 403.6, 403.7 and 503.2 of the NYCECC and ASHRAE 90.1 Sections 6.4.1 and 6.4.2, and included in the energy analysis must be supported in the construction documents, in the drawings, the equipment schedules and the notes, see Figure 3 in the Appendix for more information.

Where appropriate, the drawings must require duct sealing and proper insulation for ducts and piping, see Figure 4 in the Appendix for more information.

Mandatory controls must be shown on the drawings and a narrative provided that explains to the Department, the contractor and the progress inspector how the control systems function in accordance with NYCECC requirements, see Figure 5 in the Appendix for more information.

Mandatory dampers at air intakes and exhausts must be shown and identified.

#### **SECTION 5: LIGHTING AND POWER**

Lighting layouts should be shown on floor plans, reflected ceiling plans or electrical drawings to support the lighting shown in the energy analysis, see Figure 6 in the Appendix for more information.

Lighting fixture types, lamp and ballast types, quantities, wattages and fixture input wattages matching those in the energy analysis must be provided and linked to both exterior and interior lighting layouts in order to demonstrate compliance with lighting power density requirements, see Figure 7 in the Appendix for more information.

Mandatory controls must be shown on the drawings and a narrative provided that explains how the control systems function in accordance with NYCECC requirements, see Figure 8 in the Appendix for more information. Additionally, meters must be shown for dwelling units, tandem wiring, voltage drops, fan motors and other electrical motors must be shown as applicable, see Figure 9 in the Appendix for more information.

#### **SECTION 6: PROGRESS INSPECTIONS**

Progress inspections must be identified and clearly explained so that the contractor can estimate and schedule for them, and so that the contractor, progress inspector and all other affected parties understand what standard of construction is expected and what

activities will be performed during construction. All information in Table I or II should be shown as applicable to the scope of work and accordingly the table may be replicated in the drawings and edited for the project work.

Applications filed on or after September 7, 2010, are required to include the progress inspections on their drawings and check “Yes” for the progress inspection, “Energy Code Compliance Inspections,” on the filed TR1 form, see Figure 10 in the Appendix for more information.

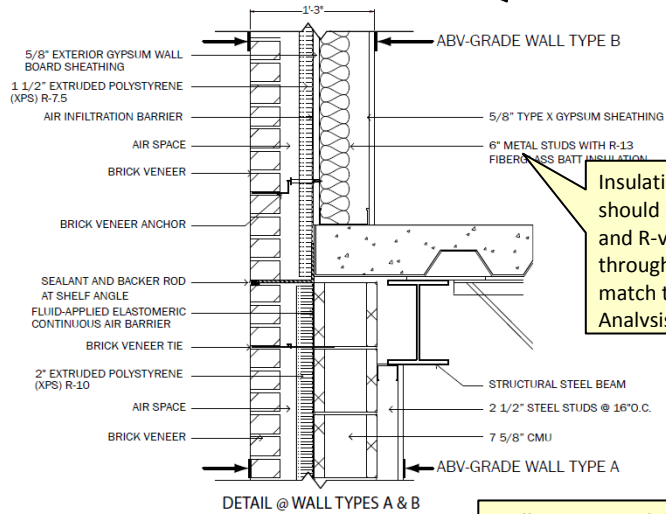
Applications filed on or after February 7, 2011, must be accompanied by a TR8 form – see Figure 11 in the Appendix for more information, [1 RCNY §5000-01](#) for more information on the progress inspection tables and Figure 12 in the Appendix for residential and commercial buildings. Also, see the [Information About Forms](#) page for more information as well.

**SECTION 7: APPENDIX**

**FIGURE 1**

# Wall Section Examples

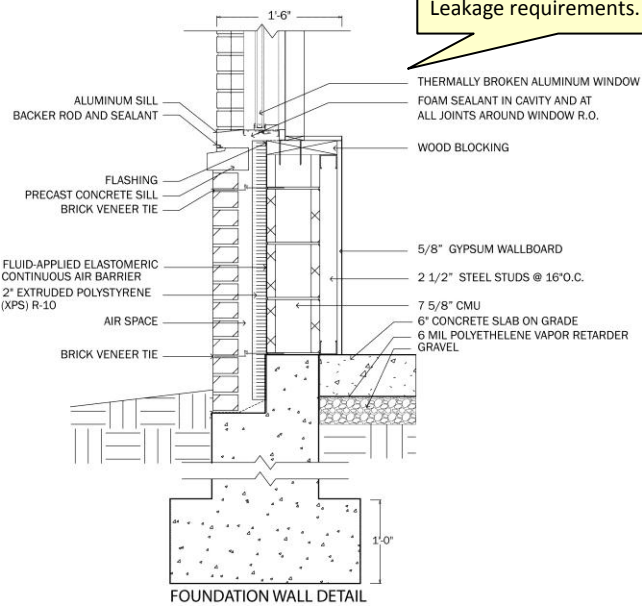
All Wall Assembly Types should be identified, corresponding to those noted in the Plans.



Insulation types should be identified and R-values stated throughout to match the Energy Analysis.

DETAIL @ WALL TYPES A & B

Wall sections and details should note materials and techniques to meet mandatory NYCECC Air Leakage requirements.



**FIGURE 2: Sample Envelope Schedules**

Window / Storefront / Skylight Schedule							
Type	Description	R.O. / M.O.	Glass Type	U-Factor	SHGC	Air Leakage	Notes
1	Alum-Framed Dbl. Casement	3'-4" x 6'-8"	IGU, low-e, clear	0.41	0.31	≤ 0.30 cfm/SF	1
2	Alum-Framed Dbl. Casement	3'-4" x 5'-4"	IGU, low-e, clear	0.41	0.31	≤ 0.30 cfm/SF	1
3A	Alum-Framed Storefront System	17'-4" x 11'-4"	IGU, low-e, clear	0.49	0.32	≤ 0.06 cfm/SF	1,3,4
3B	Alum-Framed Storefront System	17'-4" x 8'-0"	IGU, low-e, clear	0.49	0.32	≤ 0.06 cfm/SF	1,3
3C	Alum-Framed Storefront System	12'-0" x 8'-0"	IGU, low-e, clear	0.49	0.32	≤ 0.06 cfm/SF	1,3
3D	Alum-Framed Storefront System	11'-4" x 8'-0"	IGU, low-e, clear	0.49	0.32	≤ 0.06 cfm/SF	1,3
4	Alum-Framed Fixed Skylight	7'-6"W x 15'-0"L	IGU, low-e, tinted	0.82	0.2	≤ 0.10 cfm/SF	2,4

Notes:

1. Air leakage: Provide flashing, window dams, expandable foam sealant, and caulking at rough opening/window frame joints to create a continuous air barrier with surrounding wall system.
2. Air leakage: Provide flashing, expandable foam sealant, and caulking at rough opening/skylight frame joints to create a continuous air barrier with surrounding roof system.
3. See Dwg. A-605 for detailed storefront elevations.

4. Manufacturer's air infiltration rates based on 6.24 psf (300 Pa) static pressure differential, tested per ASTM E 283.

Exterior Door Schedule							
Type	Description	R.O. / M.O.	Glass Type	U-Factor	SHGC	Air Leakage	Notes
A	Alum/Glass Dbl door w/ fixed transom	6'-4" x 9'-4"	IGU, low-e, clear	0.62	0.26	≤ 1.00 cfm/SF	1, 2
B	Insulated Hollow Metal Door	3'-4" x 7'-4"	N/A	0.42	N/A	N/A*	1
C	Insulated Roll-up Overhead Metal Door	10'-0" x 8'-0"	N/A	0.44	N/A	N/A	1

Notes:

1. Air leakage: Provide flashing, expandable foam sealant, and caulking at rough opening/door frame joints to create a continuous air barrier with surrounding wall system.
2. See Dwg. A-605 for detailed entry door elevations. Doors will be field-fitted with weather-stripping per ECC Section 502.4.1.



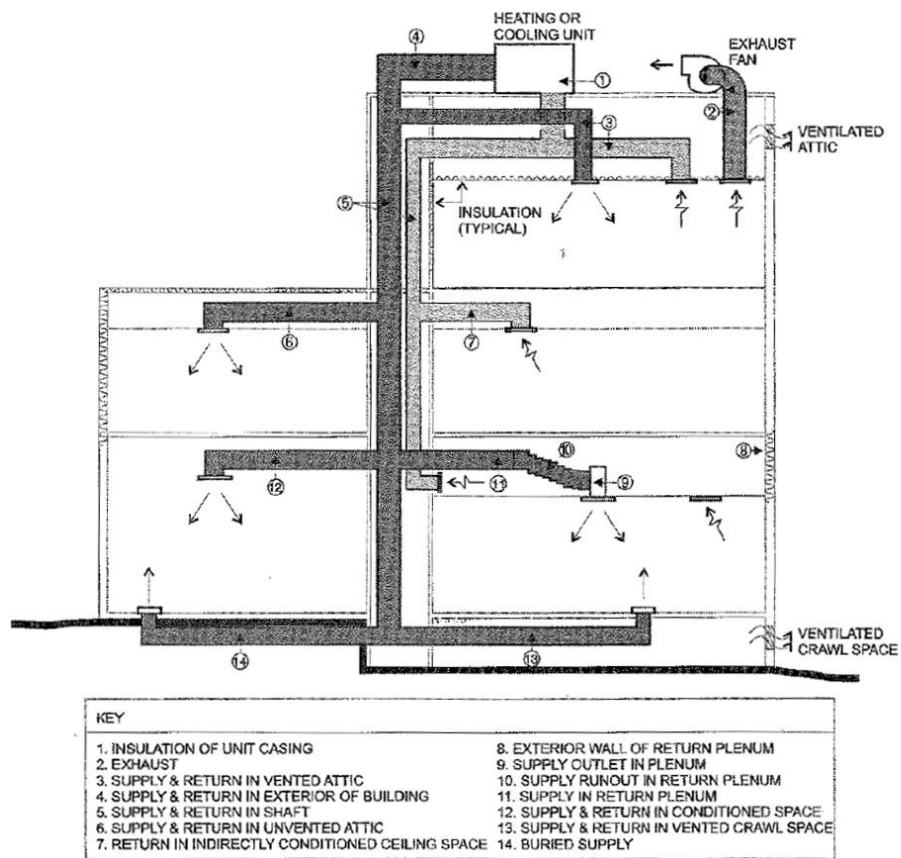
**FIGURE 3: HVAC Schedule Examples (Partial Views)**

BOILER SCHEDULE							
UNIT NO.	GAS			EFFICIENCY <sup>(1)</sup> %	GPM	FLUE OUTLET SIZE (IN.)	FUEL
	INPUT MBH	OUTPUT MBH	MIN. OPER GAS PRESSURE (IN WG)				
B-1	600	534	16.5	89	60	8	GAS/OIL

AIR HANDLING UNIT SCHEDULE										
UNIT NO.	LOCATION	SERVICE	FAN DATA							
			TOTAL CFM	O.A. CFM	EXT S.P. IN W.C.	TOTAL S.P. IN W.C.	RPM	FILTER	MOTOR	
									BHP	HP
AHU-1	ROOF	OFFICE	10000	1200	1.5	3.50	-	MERV 13	8.47	10

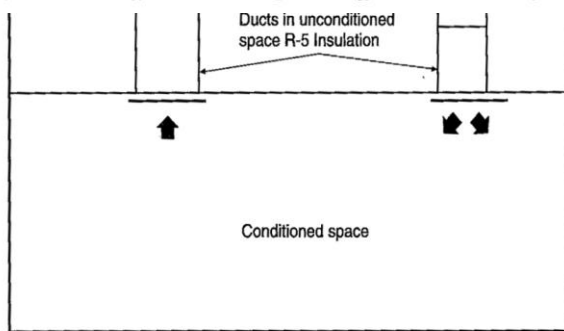
INCREMENTAL WALL AIR-COOLED AC UNITS							
UNIT NO.	MODEL	CFM	COOLING		HEATING		
			TOTAL CAPACITY BTU/H	EER <sup>(1)</sup>	TOTAL CAPACITY BTU/H	HOT WATER	
						EWT f	LWT F
PTAC -1	MODEL	350	9,500	11.2	12,140	190	170

**FIGURE 4: Duct Sealing and Insulation for Ducts and Piping**



**Figure 503.2.7  
DUCT INSULATION**

(Courtesy of U.S. Department of Energy, Office of Building Technology State and Community Programs, [www.energycodes.gov](http://www.energycodes.gov))

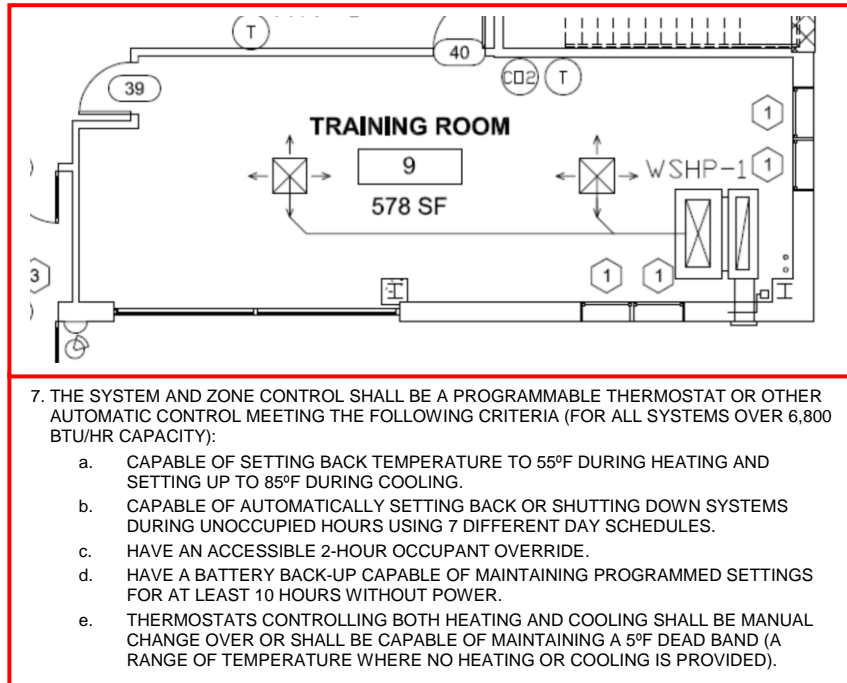


Ducts located above a suspended ceiling with a roof assembly above are considered in unconditioned space and will need to be insulated to a minimum R-5.

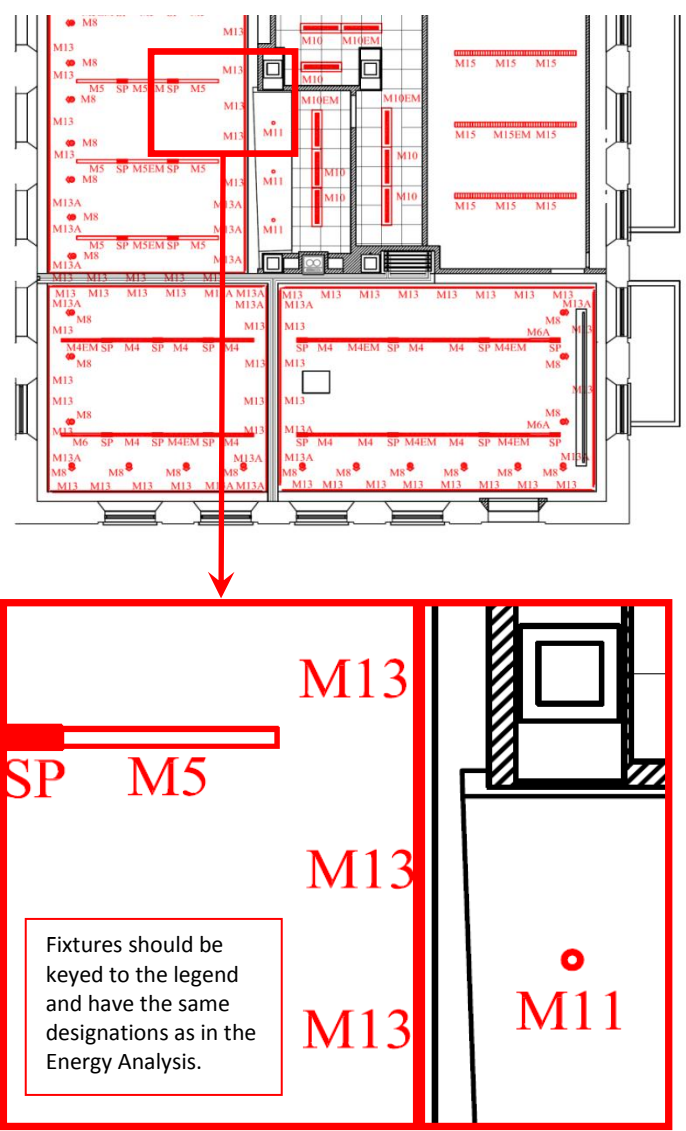
- 503.2.7 Duct and plenum insulation and sealing**  
 Required for supply and return ducts and plenums
- Located in unconditioned space = R5
  - Outside the building = R8

- 503.2.7.1.3 High-pressure duct systems**
- 25% of duct area needs leakage testing
  - Residential ducts outside of conditioned space also need leakage testing.

**FIGURE 5: HVAC/Service Water Heating Controls and Narrative Examples**

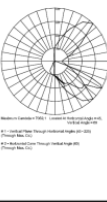


**FIGURE 6: Lighting/Power – Reflected Ceiling Plan**



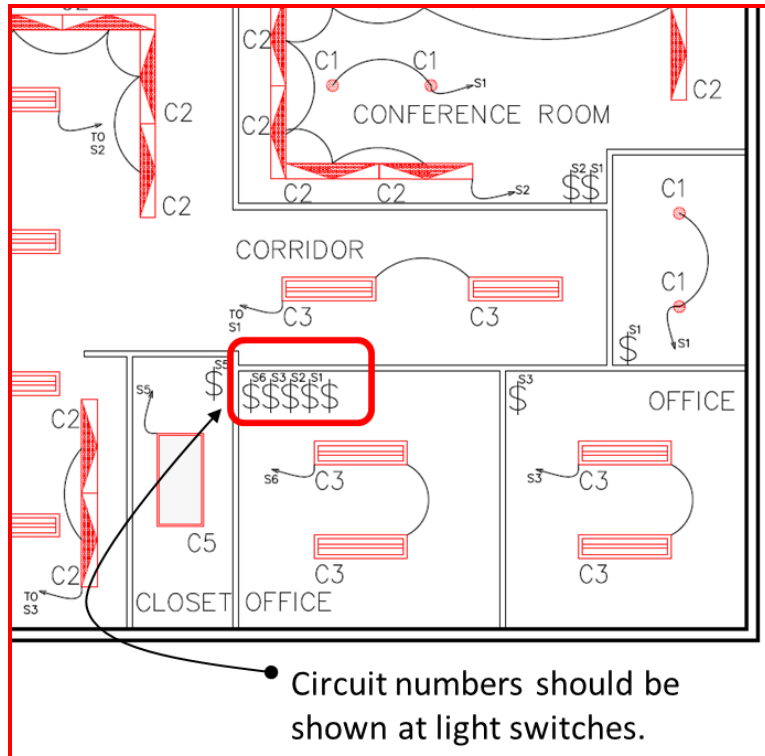
- M11 RECESSED (1) SINGLE LAMP 39W PAR20 METAL HALIDE DOWNLIGHT WITH ELECTRONIC BALLAST [45W]
- M12 DECORATIVE RECESSED (1) SINGLE LAMP 42W COMPACT FLUORESCENT DOWNLIGHT WITH ELECTRONIC BALLAST [48W] [.95 BF]
- M12EM DECORATIVE RECESSED (1) SINGLE LAMP 42W COMPACT FLUORESCENT DOWNLIGHT WITH EMERGENCY BATTERY PACK [48W] [.95 BF]
- M13 CONTINUOUS TELESCOPING SURFACE MOUNT (2) TWO LAMP 28W T5 (4'-0") LINEAR FLUORESCENT STRIP MOUNTED IN ARCHITECTURAL COVE WITH ELECTRONIC BALLAST [64W] [1.00BF]

**FIGURE 7: Lighting/Power – Schedule**

TYPE	DESCRIPTION		PHOTOMETRY	SYSTEM WATTS	VOLT	CONTROL INTENT	MANUFACTURER
H1	<p>Description:</p> <p>Lamp:</p> <p>Optics:</p> <p>Location/Remarks:</p> <p>Ballast:</p> <p>Pole:</p>	<p>ARM-MOUNTED COSMO OR LED NYCDOT LIGHPOLE 25'-0" A.F.G. WITH DAVIT ARM AND OCTAGONAL POLE.</p> <p>(1) CPO-TW 140W/728 [2800°K] [14,020 LUMENS] [PHILIPS]</p> <p>LUMINAIRE SHALL CONSIST OF A THERMAL RESISTANT FLAT GLASS LENS. LENS SHALL BE HOUSED IN A CAST ALUMINUM ALLOW BODY. OPTICAL ASSEMBLY TO BE AN ANODIZED FULL-CUTOFF ASYMMETRIC TYPE III DISTRIBUTION REFLECTOR.</p> <p>[ROADWAYS] LUMINAIRE HOUSING SHALL BE COMPRISED OF A DOOR FRAME AND CANOPY WHICH HOUSES INTEGRAL CONTROL GEAR. THE DOOR SHALL BE SECURED BY A CORROSION RESISTANT ALUMINUM LATCH PROVIDING TOOL-LESS ACCESS FOR MAINTENANCE. THE CANOPY AND DOOR SHALL BE SEALED BY A SILICONE GASKET. FIXTURE SHALL HAVE UNIVERSAL MOUNTING SYSTEM TO BE SECURED ON A 1.88" TO 2.38" O.D. X MINIMUM 8" LONG HORIZONTAL ARM. TOTAL LUMINAIRE EFFICIENCY SHALL BE MINIMUM 75%. ENTIRE ASSEMBLY SHALL BE UL LISTED. SUITABLE FOR WET LOCATION.</p> <p>ICW140TLS [PHILIPS] [BALLAST TEMPERATURE RANGE -20°C / +50°C] BALLAST SHALL BE ASSEMBLED ON A UNITIZED REMOVABLE TRAY WITH QUICK DISCONNECT PLUG.</p> <p>POLE SHALL BE NYCDOT STANDARD ALUMINUM DAVIT (8'-0" ARM) SET IN NYCDOT STANDARD OCTAGONAL STEEL POLE (TRANSITION AT NOMINAL 19'-0" AFG); TOTAL HEIGHT NOMINAL 25'-0" AFG. POLE TO ACCOMMODATE STANDARD NYCDOT BOLT CIRCLE. POLE SHALL BE CAPABLE OF WITHSTANDING 100MPH WINDS WITH 1.3 GUST FACTOR. PROVIDE WITH WEATHER-RESISTANT GFCI RECEPTACLE AT 14'-0" AFG.</p>	<p>NOTE: POLAR CURVE REFLECTS 175W MH</p> 	185 watts	120 V	<p>PHOTOCELL ON/TIMELOCK OFF</p> <p>PHOTOCELL TO BE LOCATED ON EACH INDIVIDUAL FIXTURE AS PER DOT SPEC.</p>	<p>LUMINAIRE: HOLOPHANE #15DHP-12-F-F-AS-R</p> <p>POLE: NYCDOT WEST HOUSTON</p> <p>BASE: OCT/FLATBUSH AVE TRANSFORMER TYPE</p> <p>OR APPROVED EQUAL BY TBD.</p>

Fixture types, lamp and ballast types, quantities and wattages and fixture input wattages on drawings and schedules must match those in the Energy Analysis.

**FIGURE 8: Lighting/Power – Controls and Narratives**



Narrative example:

A-402-00	
Room Number/Type	Control Strategy Recommendation
Corridors/Elev. Lobbies	Automatic on/off of 75% of fixtures. 25% of fixtures to remain energized at all times (i.e. emergency fixtures to remain on).
Restrooms	Astronomical timeclock with occupancy sensor. Automatic on/off of 75% of fixtures. 25% of fixtures to remain energized at all times (i.e. emergency fixtures to remain on).
Locker Rooms	Astronomical timeclock with occupancy sensor. Automatic on/off of 75% of fixtures. 25% of fixtures to remain energized at all times (i.e. emergency fixtures to remain on).
Stairs	Astronomical timeclock with occupancy sensor to de-energize 50% of fixtures. 50% of fixtures to remain energized at all times.
Elec./Mechanical Rooms	Local switches with dual technology occupancy sensor (manual on, automatic off 75% of fixtures) and astronomical timeclock sweep. 25% of fixtures to remain energized at all times (i.e. emergency fixtures to remain on).

**FIGURE 9: Lighting/Power – Metering**



**FIGURE 10: TR1**

PAGE 2

**3 Special Inspection Items (continued)** Required for all applications; ■ indicates report required.

3A Identification of Requirement		3B Identification of Responsibilities	3C Certificate of Complete Inspections / Tests	3D Withdraw Responsibilities
Y	N	Initial & Date	Initial & Date	Initial & Date
<input type="checkbox"/>	<input type="checkbox"/>	Excavation - Sheeting, Shoring, and Bracing	BC 1704.19, BC 3304.4.1	
<input type="checkbox"/>	<input type="checkbox"/>	Soil Percolation Test - Drywell	■ BC 1704.20.1	
<input type="checkbox"/>	<input type="checkbox"/>	Soil Percolation Test - Septic	■ BC 1704.20.1	
<input type="checkbox"/>	<input type="checkbox"/>	Site Storm Drainage Disposal and Detention System Installation	BC 1704.20	
<input type="checkbox"/>	<input type="checkbox"/>	Septic System Installation	BC 1704.20	
<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler Systems	BC 1704.21	
<input type="checkbox"/>	<input type="checkbox"/>	Standpipe Systems	BC 1704.22	
<input type="checkbox"/>	<input type="checkbox"/>	Heating Systems	BC 1704.23	
<input type="checkbox"/>	<input type="checkbox"/>	Chimneys	BC 1704.24	
<input type="checkbox"/>	<input type="checkbox"/>	Firestop, Draftstop, and Fireblock systems	BC 1704.25	
<input type="checkbox"/>	<input type="checkbox"/>	Aluminum Welding	BC 1704.26	
<input type="checkbox"/>	<input type="checkbox"/>	Seismic Isolation Systems	BC 1707.8	
<input type="checkbox"/>	<input type="checkbox"/>	Concrete Test Cylinders	■ TR2 BC 1905.6	Submit TR2 to complete these items
<input type="checkbox"/>	<input type="checkbox"/>	Concrete Design Mix	■ TR3 BC 1905.3	Submit TR3 to complete these items

**4 Progress Inspection Items** Required for all applications. ■ indicates report required.

4A Identification of Requirement		4B Identification of Responsibilities	4C Certificate of Complete Inspections / Tests	4D Withdraw Responsibilities
Y	N	Initial & Date	Initial & Date	Initial & Date
<input type="checkbox"/>	<input type="checkbox"/>	Preliminary	28-116.2.1, BC 109.2	
<input type="checkbox"/>	<input type="checkbox"/>	Footing and Foundation	BC 109.3.1	
<input type="checkbox"/>	<input type="checkbox"/>	Lowest Floor Elevation (attach FEMA form)	BC 109.3.2	
<input type="checkbox"/>	<input type="checkbox"/>	Frame Inspection	BC 109.3.3	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Energy Code Compliance Inspections	■ TR8 BC 109.3.5	Submit TR8 to complete this item
<input type="checkbox"/>	<input type="checkbox"/>	Fire-Resistance Rated Construction	BC 109.3.4	
<input type="checkbox"/>	<input type="checkbox"/>	Public Assembly Emergency Lighting	28-116.2.2	
<input type="checkbox"/>	<input type="checkbox"/>	Final*	28-116.2.4.2, BC 109.5, Directive 14 of 1975, and 1 RCNY §101-10	

\* For column 4C, indicate date when the actual final inspection was performed

**5 Design Applicant's Statements and Signatures** P.E./R.A. responsible for plans, choose both below and sign/seal.

Name (please print)

FIGURE 11: TR8

**NYC Buildings**

**TR8: Technical Report  
Statement of Responsibility for  
Energy Code Progress Inspections**

This form must be typewritten

Orient and affix this job number label here

---

**1 Location Information** *Required for all applications.*

House No(s) \_\_\_\_\_ Street Name \_\_\_\_\_  
Work on Floor(s) \_\_\_\_\_

---

**2 Applicant Information** *Required for all applications.*

Choose all that apply:  Design Applicant 3A, 4  Progress Inspections Applicant 3B-D, 5-6

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_  
Business Name \_\_\_\_\_ Business Telephone \_\_\_\_\_  
Business Address \_\_\_\_\_ Business Fax \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Mobile Telephone \_\_\_\_\_  
License Type choose one:  P.E.  R.A. License Number \_\_\_\_\_

---

**3 Energy Code Progress Inspection** *Required for applications where Energy Code Compliance Progress Inspection is marked 'Yes' on TR7*

3A	Identification of Requirement	Table Reference in 1RCNY (5500-01)(b) (1) and (2)	3B Identification of Responsibilities	3C Certificate of Complete Inspections / Tests	3D Withdrawal Responsibilities
Y	N		Initial & Date	Initial & Date	Initial & Date
<input type="checkbox"/>	<input type="checkbox"/>	Protection of foundation insulation	(IA1), (IA1)		
<input type="checkbox"/>	<input type="checkbox"/>	Insulation placement and R values	(IA2), (IA2)		
<input type="checkbox"/>	<input type="checkbox"/>	Fenestration thermal values and ratings	(IA3), (IA3)		
<input type="checkbox"/>	<input type="checkbox"/>	Fenestration ratings for air leakage	(IA4), (IA4)		
<input type="checkbox"/>	<input type="checkbox"/>	Fenestration areas	(IA5), (IA5)		
<input type="checkbox"/>	<input type="checkbox"/>	Air sealing and insulation — visual	(IA6), (IA6)		
<input type="checkbox"/>	<input type="checkbox"/>	Air sealing and insulation — testing	(IA7)		
<input type="checkbox"/>	<input type="checkbox"/>	Protection factors	(IA7)		
<input type="checkbox"/>	<input type="checkbox"/>	Loading deck weather seals	(IAB)		
<input type="checkbox"/>	<input type="checkbox"/>	Vestibules	(IAB)		
<input type="checkbox"/>	<input type="checkbox"/>	Partitions	(IB1), (IB1)		
<input type="checkbox"/>	<input type="checkbox"/>	Dampers integral to building envelope	(IB2), (IB2)		
<input type="checkbox"/>	<input type="checkbox"/>	HVAC and service water heating equipment	(B3), (B3)		
<input type="checkbox"/>	<input type="checkbox"/>	HVAC and service water heating system controls	(B4), (B4)		
<input type="checkbox"/>	<input type="checkbox"/>	Duct plenum and piping insulation and sealing	(B5), (B5)		
<input type="checkbox"/>	<input type="checkbox"/>	Duct leakage testing	(B6), (B6)		
<input type="checkbox"/>	<input type="checkbox"/>	Electrical metering	(IC1), (IC1)		
<input type="checkbox"/>	<input type="checkbox"/>	Lighting in dwelling units	(IC2), (IC2)		
<input type="checkbox"/>	<input type="checkbox"/>	Interior lighting power	(IC3)		
<input type="checkbox"/>	<input type="checkbox"/>	Exterior lighting power	(IC4)		
<input type="checkbox"/>	<input type="checkbox"/>	Lighting controls	(IC5)		
<input type="checkbox"/>	<input type="checkbox"/>	Exit signs	(IC6)		
<input type="checkbox"/>	<input type="checkbox"/>	Firearm wiring	(IC7)		
<input type="checkbox"/>	<input type="checkbox"/>	Electrical motors	(IC8)		
<input type="checkbox"/>	<input type="checkbox"/>	Maintenance information	(ID1), (ID1)		
<input type="checkbox"/>	<input type="checkbox"/>	Permanent certificate	(ID2)		

**4 Design Applicant**

I have identified the compliance.

---

**5 Inspection Applicant**

Check all that apply:

For the progress responsibility for 1 and 1 RCNY 500 progress inspected agree that both I and additional sanctions

Change of Applicant

None of the

Some of the designated

I am aware of the Name (please print) \_\_\_\_\_  
Signature \_\_\_\_\_  
P.E./R.A. Seal (add)

---

**6 Inspection Applicant**

I have completed

All work per provisions

All work per provisions report

I am aware of the Name (please print) \_\_\_\_\_  
Signature \_\_\_\_\_  
P.E./R.A. Seal (add)

01/11



**FIGURE 12: Rule 1 RCNY §5000-01 Progress Inspection Tables**

Partial views – Table I (Residential) & Table II (Commercial)

TABLE I – PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE – RESIDENTIAL BUILDINGS				
	Inspection/Test	Frequency (minimum)	Reference Standard (See ECC Chapter 6) or Other Criteria	ECC or Other Citation
<b>IA</b>	<b>Envelope Insulation</b>			
IA1	<b>Protection of insulation:</b> Insulation applied to exterior walls, crawl-space of slab-on-grade			
IA2	<b>Insulation placement:</b> Installed insulation in conditioned space between components inspected to ensure proper placement, that such R-values identified in documents and labels are installed. Certification shall be inspected.			
IA3	<b>Window and door ratings:</b> U-factor			

TABLE II – PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE – COMMERCIAL BUILDINGS				
	Inspection/Test	Periodic (minimum)	Reference Standard (See ECC Chapter 6) or Other Criteria	ECC or Other Citation
<b>IIA</b>	<b>Envelope Inspections</b>			
IIA1	<b>Protection of exposed foundation insulation:</b> Insulation shall be visually inspected to verify proper protection where applied to the exterior of basement or cellar walls, crawl-space walls and/or the perimeter of slab-on-grade floors.	As required during foundation work and prior to backfill	Approved construction documents	303.2.1; ASHRAE 90.1 – 5.8.1.7
IIA2	<b>Insulation placement and R-values:</b> Installed insulation for each component of the conditioned space envelope and at junctions between components shall be visually inspected to ensure that the R-values are marked, that such R-values	As required to verify continuous enclosure while walls, ceilings and floors are	Approved construction documents	303.1, 303.1.1, 303.1.2, 502.1, 502.2; ASHRAE 90.1 – 5.5, 5.6 or 11; 5.8.1