

SCOPE OF WORK AND COST ESTIMATE

88 Carroll Street

(Section 2 of 3)

Site 1 of 1

Site Address: 88 Carroll St. Binghamton, NY

Scope of Work

Building renovations will start with gutting the building interior, removing all interior finish materials; interior doors; electrical, plumbing and heating systems; asbestos abatement; window sashes. Exterior demolition will include removal of the front pressure treated wood, and stairs from the rear porch. The rear porch will be repaired and new finishes and railing system installed. New work will be all new materials and systems to reconstruct ten apartments. (See new and proposed drawings). Contractor will provide all work and materials necessary to complete the work. All work will be compliant with New York State building and energy codes. Major work areas are as follows:

BUILDING EXTERIOR:

1. Masonry restoration work including but not limited to repointing approximately 25% of mortar joints; and cleaning of brick veneer. Repair or reconstruction of the bowed section of exterior brick wall on the north side which is may require bracing of the brick, support of roof and floor framing, removal and re-installation of approximately 360 sf of brick wall;
2. Repair front entrance door systems to maintain the historical features of the building while improving energy efficiency by adding insulated glass panels at arched transoms and doors;
3. Inspect tin cornice for any needed repairs, make repairs, and paint;
4. Replace round top upper and standard bottom sashes of double-hung window units with new wood clad, energy star, historically accurate, units with aluminum panning or vinyl coating at exterior (such as Marvin or Andersen).
5. Repair exterior wood frame enclosed rear porch Remove stairs from rear porch interior and install new metal spiral code-compliant stairs. Construct new wood stairs to grade.
6. Repair or replace stone foundation of bulkhead to basement from rear (east) side of building.
7. Construct new front porch – replicate the size and details of the original porch based on flashing and paint lines visible on the brick façade. Railing system will be in a style appropriate for the historicity of the building.

SITE:

1. Install new underground utilities (electric, domestic water, sewer, water line for sprinkler system, natural gas line;

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2. Replace concrete walks disrupted by construction;
3. Patch new asphalt surface at Southern driveway after utility connections have been completed, and new to access rear porch;
4. Provide new plants for front planting areas, see Proposed Site Plan;
5. Remove page fencing on east side of site and replace with new;
6. Replace wall pack site lighting with historically accurate energy star fixtures.

ROOF

1. Work for the 2011 membrane roof includes inspection and verification that no water infiltration occurs at the metal coping above the exterior brick walls and any necessary repairs. .

INTERIOR RENOVATIONS

1. Basement - Install new concrete slab with reinforcing over gravel sub-base and rigid insulation. Provide in-floor hydronic heat in slab in tenant storage side of basement to prevent vandalism, furr-out exterior walls with 1 1/2" metal or wood studs and fill with urethane foam insulation, finish with drywall.
2. Exterior walls to be furred out for insulation and new wiring.
3. Drop ceiling height at third floor 6" for installation of new electric, leaving existing ceiling and cellulose insulation in place;
4. Construct new interior stud partitions of 2x4 studs 16" o.c. with sound attenuation batts in all stud spaces; install 5/8" fire-rated gypsum board throughout, double layers of drywall where two-hour construction is required.
5. Install 6" sound attenuation batts in all joist spaces, install 5/8" fire-rated gypsum board to underside of joists including basement. Furr basement ceiling to provide ~~3" minimum access space for new electric wiring and plumbing supply lines while~~ maintaining a minimum ceiling height of 7'-8";
6. Install new solid core doors throughout, fire-rated where required.
7. Install new wood trim at doors to replicate existing at windows, baseboard to replicate original except in basement where base will be vinyl.
8. Install new hardwood flooring on floors 1 thru 3 and finish in similar shade as original;
9. Install ceramic tile on walls and floors in bathrooms;
10. Install new plywood cabinetry with plastic laminate counters in kitchen areas;
11. Provide energy star, apartment size appliances to all units;
12. Bathrooms will have new cast-iron tubs, new flush valve toilets, new vanity base sinks, medicine cabinets, robe hooks, towel bars and other accessories, etc.
13. The front two units on the first floor will be modified as Type B Dwelling units. There is no room on the site for a handicap lift or ramp.

ELECTRICAL, MECHANICAL & FIRE SAFETY RENOVATIONS

1. Heating System - Replace existing steam boiler (81% efficient) with two high efficiency boilers. Remove all existing piping and install new piping and radiators. System will be designed to operate on an ambient outdoor temperature remote sensor. Gas service to the building will be increased to provide for two boilers.

- Domestic hot water will be provided by storage tanks linked to the boiler system.
2. Electrical System - The 1980 era electric service will be removed and replaced with a 400 amp or greater service, cable will be buried from the street pole to the building's new main disconnect panel. Units will have their own 60 amp panel. Units will have ceiling fan light fixtures in the living room and bedrooms. Exterior lighting will be replaced with more historically accurate fixtures (energy star). Exterior lighting will be added in the ceiling of the new front porch and at the rear porches entrance. Lighting along the southern drive is provided from lights located on the North side of 92 Carroll.
 3. Plumbing System - Existing municipal water line to the street will be replaced with a new, larger line for potable water and a second line added for the sprinkler system. Cast iron sanitary lines will be removed and replaced with PVC. All piping within the building will be replaced. During construction of 86 Carroll a new sanitary connection was made to the street and is located in the common drive.
 4. New ventilation, fire alarm, security and sprinkler systems will be added.
 5. Door bell, intercom system will be added;
 6. Cable and telephone connections will be provided to each unit, but not service.

FACILITIES

1. Handicap accessible washers and dryers are located in the neighboring OFB property at 86 Carroll Street via the elevator.
2. Tenant storage areas will be located in the basement.

ENERGY IMPROVEMENTS

1. Exterior walls will be furred out with 1 1/2" metal or wood studs and stud spaces filled with closed cell urethane foam insulation placed over a backer board to protect the existing brick;
2. Existing window sashes will be removed and replaced with new vinyl clad wood sash replacement windows, historically accurate, energy star rated;
3. Steam heating system will be replaced with hot-water baseboard utilizing two high-efficiency hot water boilers (96% efficiency). Piping will be insulated. Units will have remote sensor pre-programmed thermostats to regulate heat usage.
4. Glazing in front entrance doors will be replaced with insulated, tempered glass units. Insulated glass will be installed on the interior side of the arched transom, weatherstripping will be added, and the decorative wood side panels will be filled with foam insulation.
5. Rear exterior doors will remain and be restored, weather stripping will be added. Storm/screen doors will be added to the exterior.
6. Appliances will be energy star rated; ranges will be electric, refrigerators will be 18 c.f. minimum
7. All new light fixtures will be LED energy star rated.

ENVIRONMENTAL

1. Asbestos containing materials, if any, are assumed to be limited to drywall, plaster,

floor tile and limited pipe insulation. An environmental audit is necessary before proceeding with any work.

2. Lead is assumed to be present in painted trim and will be remediated, encapsulated or removed with the replacement of wood trim.
3. Any PCB containing materials will be tested and removed during demolition.
4. There is no visible mold or smell. No work is anticipated.

INACCESSIBLE AREAS

1. Access to the cavity between the third floor ceiling and the roof has not been fully investigated but there does not appear to be any structural damage. This cavity was insulated in 2008 under the Tioga Opportunities Weatherization Program. At present there is one location where past water damage is visible on the ceiling but there has been no further evidence of water since the roof was replaced. The ceiling on this floor will be left in place as it supports the blown in insulation.
2. Excavation between the building and the municipal utilities located in the street.
3. There is no visible damage to framing at this point as floor framing and flooring beneath bathroom and kitchens is not accessible due to finishes.
4. At the exterior wall on north side from the third floor line to the roof there is visible bowing of the brick wall, see EXTERIOR, note 1, Building Exterior, above.



Compliance Certificate

Project 88 Carroll Street Existing Condition

Energy Code: **2009 IECC**
 Location: **Broome County, New York**
 Construction Type: **Multi-family**
 Project Type: **Alteration**
 Climate Zone: **6 (8499 HDD)**
 Permit Date:
 Permit Number:

247% WORSE
 Plan Code
 Patricia A Every

Construction Site:
 88 Carroll Street
 Binghamton, NY 13901

Owner/Agent:
 Opportunities for Broome, Inc.
 5 West State Street
 Binghamton, NY 13901
 6077236493
 krobertson@ofbonline.org

Designer/Contractor:
 Patricia A Every
 PAEvery Architect, PLLC
 31 Oakridge Drive
 Binghamton, NY 13903
 6077247039
 paeveryarchitect@stny.rr.com

Compliance: Average fenestration U-factor exceeds maximum

Maximum UA: **814** Your UA: **3185**

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Wall 1: Solid Concrete or Masonry:No Insulation	1,446			0.333	367
Window 1: Wood Frame:Single Pane	18			1.220	22
Window 2: Wood Frame:Single Pane	18			1.220	22
Window 3: Wood Frame:Single Pane	18			1.220	22
Window 4: Wood Frame:Single Pane	18			1.220	22
Window 5: Wood Frame:Single Pane	18			1.220	22
Window 6: Wood Frame:Single Pane	18			1.220	22
Window 7: Wood Frame:Single Pane	18			1.220	22
Window 8: Wood Frame:Single Pane	18			1.220	22
Window 9: Wood Frame:Single Pane	18			1.220	22
Window 10: Wood Frame:Single Pane	18			1.220	22
Window 11: Wood Frame:Single Pane	18			1.220	22
Window 12: Wood Frame:Single Pane	18			1.220	22
Window 13: Wood Frame:Single Pane	18			1.220	22
Window 14: Wood Frame:Single Pane	18			1.220	22
Window 15: Wood Frame:Single Pane	18			1.220	22
Window 16: Wood Frame:Single Pane	18			1.220	22

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Door 1: Glass	28			1.220	34
Door 2: Glass	28			1.220	34
Wall 2: Solid Concrete or Masonry:No Insulation	1,334			0.333	426
Window 17: Wood Frame:Single Pane	18			1.220	22
Window 18: Wood Frame:Single Pane	18			1.220	22
Window 19: Wood Frame:Single Pane	18			1.220	22
Wall 3: Solid Concrete or Masonry:No Insulation	1,446			0.333	363
Window 20: Wood Frame:Single Pane	18			1.220	22
Window 21: Wood Frame:Single Pane	18			1.220	22
Window 22: Wood Frame:Single Pane	20			1.220	24
Window 23: Wood Frame:Single Pane	20			1.220	24
Window 24: Wood Frame:Single Pane	20			1.220	24
Window 25: Wood Frame:Single Pane	20			1.220	24
Window 26: Wood Frame:Single Pane	20			1.220	24
Window 27: Wood Frame:Single Pane	20			1.220	24
Window 28: Wood Frame:Single Pane	20			1.220	24
Window 29: Wood Frame:Single Pane	20			1.220	24
Window 30: Wood Frame:Single Pane	20			1.220	24
Window 31: Wood Frame:Single Pane	20			1.220	24
Door 3: Solid	20			0.640	13
Door 4: Solid	20			0.640	13
Door 5: Solid	20			0.640	13
Door 6: Solid	20			0.640	13
Door 7: Solid	20			0.640	13
Door 8: Solid	20			0.640	13
Wall 4: Solid Concrete or Masonry:No Insulation	1,334			0.333	404
Window 32: Wood Frame:Single Pane	20			1.220	24
Window 33: Wood Frame:Single Pane	20			1.220	24
Window 34: Wood Frame:Single Pane	20			1.220	24
Window 35: Wood Frame:Single Pane	20			1.220	24
Window 36: Wood Frame:Single Pane	20			1.220	24
Window 37: Wood Frame:Single Pane	20			1.220	24
Ceiling 1: Flat Ceiling or Scissor Truss	1,680	38.0	0.0	0.030	50
Basement Wall 2: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.5' Insulation depth: 0.0'	382	0.0	0.0	0.278	106
Basement Wall 3: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.6' Insulation depth: 0.0'	357	0.0	0.0	0.272	97

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Basement Wall 4: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.5' Insulation depth: 0.0'	382	0.0	0.0	0.278	106
Basement Wall 5: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.5' Insulation depth: 0.0'	357	0.0	0.0	0.278	99
Floor 1: Slab-On-Grade:Unheated Insulation depth: 0.0'	168		0.0	1.042	175

Mechanical Equipment

Description	Fuel type	Efficiency
Gas-Fired Steam	Gas	75 AFUE

Project Notes:

Proposed renovations for HHAP Grant



Inspection Checklist

Energy Code: 2009 IECC

Requirements: 86.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the commercial code.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads per ACCA Manual J or other approved methods.	Heating: Btu/hr _____ Cooling: Btu/hr _____	Heating: Btu/hr _____ Cooling: Btu/hr _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1 [FO1] ¹	Slab edge insulation R-value.	R-____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.8 [FO2] ¹	Slab edge insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.1.1 [FO3] ¹	Slab edge insulation depth/length.	____ ft	____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1 [FO4] ¹	Conditioned basement wall insulation R-value. Where interior insulation is used, verification may need to occur during Insulation Inspection. Not required in warm-humid locations in Climate Zone 3.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [FO5] ¹	Conditioned basement wall insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.2.7 [FO6] ¹	Conditioned basement wall insulation depth of burial or distance from top of wall.	____ ft	____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2.1 [FO11] ²	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.8 [FO12] ²	Snow- and ice-melting system controls installed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

Additional Comments/Assumptions:

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Section # & Req.ID	Framing / Rough-in Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4 [FR1] ¹	Door U-factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.3.5 [FR8] ¹	Sunrooms enclosing conditioned space have a maximum fenestration U-factor of 0.50 in Climate Zones 4-8. New glazing separating the sunroom from conditioned space must meet code requirements.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
402.3.5 [FR9] ¹	Sunrooms enclosing conditioned space have a maximum skylight U-factor of 0.75 in Climate Zones 4-8.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
402.4.4 [FR20] ¹	Fenestration that is not site built is listed and labeled as meeting AAMA/WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Site-built window, skylights, and doors.
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤ 2.0 cfm leakage at 75 Pa.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.2.1 [FR12] ¹	Supply ducts in attics are insulated to $\geq R-8$. All other ducts in unconditioned spaces or outside the building envelope are insulated to $\geq R-6$.	R-____ R-____	R-____ R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Ducts located completely inside the building envelope.
403.2.2 [FR13] ¹	All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are sealed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.2.3 [FR15] ³	Building cavities are not used for supply ducts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.3 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to $\geq R-3$.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.4 [FR18] ²	Circulating service hot water pipes are insulated to R-2.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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 Binghamton, NY 13901

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation is labeled or the installed R-values provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.1.1, 402.2.4, 402.2.5 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least 1/2 of the wall insulation on the wall exterior, the exterior insulation requirement applies.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ²	Wall insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.2.11 [IN8] ¹	Sunroom wall insulation has a minimum R-value of R-13. New walls separating the sunroom from conditioned space must meet code requirements.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
303.2 [IN9] ¹	Sunroom wall insulation installed per manufacturer's Instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
402.2.11 [IN10] ¹	Sunroom ceiling minimum insulation R-value of R-19 in Climate Zones 1-4, and R-24 in Climate Zones 5-8.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
303.2 [IN11] ¹	Sunroom ceiling insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

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1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumption:
402.1.1, 402.2.1, 402.2.2 [F11] ¹	Ceiling insulation R-value. Where > R-30 is required, R-30 can be used if insulation is not compressed at eaves. R-30 may be used for 500 ft ² or 20% (whichever is less) where sufficient space is not available.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [F12] ²	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.2.3 [F13] ¹	Attic access hatch and door insulation ≥ R-value of the adjacent assembly.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.2, 402.4.2.1 [F17] ¹	Building envelope tightness verified by blower door test result of <7 ACH at 50 Pa. This requirement may instead be met via visual inspection, in which case verification may need to occur during Insulation Inspection.	ACH 50 = ____	ACH 50 = ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.3 [F18] ²	Wood-burning fireplaces have gasketed doors and outdoor combustion air.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.2.2 [F14] ²	Post construction duct tightness test result of ≤8 cfm to outdoors, or ≤12 cfm across systems. Or, rough-in test result of ≤6 cfm across systems or ≤4 cfm without air handler. Rough-in test verification may need to occur during Framing Inspection.	____ cfm	____ cfm	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.1.1 [F19] ²	Programmable thermostats installed on forced air furnaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.1.2 [F10] ²	Heat pump thermostat installed on heat pumps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.4 [F11] ²	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.9.1 [F12] ³	Readily accessible switch on heaters for swimming pools.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.9.2 [F19] ³	Timer switches on pool heaters and pumps are present.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptio
403.9.3 [FI20] ³	Heated swimming pools have a cover. Covers on pools heated over 90 °F are insulated to R-12.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement not applicable.
404.1 [FI6] ¹	50% of lamps in permanent fixtures are high efficacy lamps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
401.3 [FI7] ²	Compliance certificate posted.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating equipment have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Opportunities For Broome, Inc.
5 West State Street
Binghamton, NY 13901

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2009 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
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Wall	0.00
Floor	0.00
Ceiling / Roof	38.00
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
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Window	1.22	
Door	1.22	

Heating & Cooling Equipment	Efficiency
-----------------------------	------------

Gas-Fired Steam	75 AFUE
Cooling System: _____	_____
Water Heater: _____	_____

Name: _____ Date: _____

Comments



Compliance Certificate

Project 88 Carroll Street Renovated Condition

Energy Code: 2009 IECC
Location: Broome County, New York
Construction Type: Multi-family
Project Type: Alteration
Climate Zone: 6 (8499 HDD)
Permit Date:
Permit Number:

Construction Site:
 88 Carroll Street
 Binghamton, NY 13901

Owner/Agent:
 Opportunities for Broome, Inc.
 5 West State Street
 Binghamton, NY 13901
 6077236493
 krobertson@ofbonline.org

Designer/Contractor:
 Patricia A Every
 PAEvery Architect, PLLC
 31 Oakridge Drive
 Binghamton, NY 13903
 6077247039
 paeveryarchitect@stny.rr.com

Compliance Passes

Compliance: **4.5% Better Than Code** Maximum UA: **775** Your UA: **740**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Wall 1: Solid Concrete or Masonry:Interior Insulation	1,446	0.0	21.0	0.042	46
Window 1: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 2: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 3: Wood Frame:Double Pane	18			0.330	6
Window 4: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 5: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 6: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 7: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 8: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 9: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 10: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 11: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 12: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 13: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 14: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 15: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 16: Wood Frame:Double Pane with Low-E	18			0.330	6

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Door 1: Glass Exemption: Glazing replacement in existing sash or frame.	---	---	---	---	---
Door 2: Glass Exemption: Glazing replacement in existing sash or frame.	---	---	---	---	---
Wall 2: Solid Concrete or Masonry:Interior Insulation	1,334	0.0	21.0	0.042	54
Window 17: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 18: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 19: Wood Frame:Double Pane with Low-E	18			0.330	6
Wall 3: Solid Concrete or Masonry:Interior Insulation	1,446	0.0	21.0	0.042	46
Window 20: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 21: Wood Frame:Double Pane with Low-E	18			0.330	6
Window 22: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 23: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 24: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 25: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 26: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 27: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 28: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 29: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 30: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 31: Wood Frame:Double Pane with Low-E	20			0.330	7
Door 3: Solid	20			0.640	13
Door 4: Solid	20			0.640	13
Door 5: Solid	20			0.640	13
Door 6: Solid	20			0.640	13
Door 7: Solid	20			0.640	13
Door 8: Solid	20			0.640	13
Wall 4: Solid Concrete or Masonry:Interior Insulation	1,334	0.0	21.0	0.042	51
Window 32: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 33: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 34: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 35: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 36: Wood Frame:Double Pane with Low-E	20			0.330	7
Window 37: Wood Frame:Double Pane with Low-E	20			0.330	7
Ceiling 1: Flat Ceiling or Scissor Truss	1,680	38.0	0.0	0.030	50
Basement Wall 2: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.5' Insulation depth: 8.5'	382	21.0	0.0	0.045	17
Basement Wall 3: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.6' Insulation depth: 8.5'	357	21.0	0.0	0.045	16

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Basement Wall 4: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.5' Insulation depth: 8.5'	382	21.0	0.0	0.045	17
Basement Wall 5: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 6.5' Insulation depth: 8.5'	357	21.0	0.0	0.045	16
Floor 1: Slab-On-Grade:Heated Insulation depth: 4.0'	168		14.0	0.658	111

Mechanical Equipment

Description	Fuel type	Efficiency
Other (Except Gas-Fired Steam)	Gas	96 AFUE

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2009 IECC requirements in REScheck Version 4.5.0 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Name - Title

Signature

Date

Project Notes:

Proposed renovations for HHAP Grant

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Opportunities For Broome, Inc.
5 West State Street
Binghamton, NY 13901

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Inspection Checklist

Energy Code: 2009 IECC

Requirements: 100.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the commercial code.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.6 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads per ACCA Manual J or other approved methods.	Heating: Btu/hr _____ Cooling: Btu/hr _____	Heating: Btu/hr _____ Cooling: Btu/hr _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1 [FO1] ¹	Slab edge insulation R-value.	R-____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.8 [FO2] ¹	Slab edge insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.1.1 [FO3] ¹	Slab edge insulation depth/length.	____ ft	____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1 [FO4] ¹	Conditioned basement wall insulation R-value. Where interior insulation is used, verification may need to occur during Insulation Inspection. Not required in warm-humid locations in Climate Zone 3.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [FO5] ¹	Conditioned basement wall insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.2.7 [FO6] ¹	Conditioned basement wall insulation depth of burial or distance from top of wall.	____ ft	____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2.1 [FO11] ²	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.8 [FO12] ²	Snow- and ice-melting system controls installed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Binghamton, NY 13901

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4 [FR1] ¹	Door U-factor.	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.3.5 [FR8] ¹	Sunrooms enclosing conditioned space have a maximum fenestration U-factor of 0.50 in Climate Zones 4-8. New glazing separating the sunroom from conditioned space must meet code requirements.	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
402.3.5 [FR9] ¹	Sunrooms enclosing conditioned space have a maximum skylight U-factor of 0.75 in Climate Zones 4-8.	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
402.4.4 [FR20] ¹	Fenestration that is not site built is listed and labeled as meeting AAMA/WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤ 2.0 cfm leakage at 75 Pa.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.2.1 [FR12] ¹	Supply ducts in attics are insulated to $\geq R-8$. All other ducts in unconditioned spaces or outside the building envelope are insulated to $\geq R-6$.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Ducts located completely inside the building envelope.
403.2.2 [FR13] ¹	All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are sealed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.2.3 [FR15] ³	Building cavities are not used for supply ducts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.3 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to $\geq R-3$.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.4 [FR18] ²	Circulating service hot water pipes are insulated to R-2.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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 5 West State Street
 Binghamton, NY 13901

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation is labeled or the installed R-values provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.1.1, 402.2.4, 402.2.5 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least 1/2 of the wall insulation on the wall exterior, the exterior insulation requirement applies.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.2.11 [IN8] ¹	Sunroom wall insulation has a minimum R-value of R-13. New walls separating the sunroom from conditioned space must meet code requirements.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
303.2 [IN9] ¹	Sunroom wall insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
402.2.11 [IN10] ¹	Sunroom ceiling minimum insulation R-value of R-19 in Climate Zones 1-4, and R-24 in Climate Zones 5-8.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
303.2 [IN11] ¹	Sunroom ceiling insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2 [FI1] ¹	Ceiling insulation R-value. Where > R-30 is required, R-30 can be used if insulation is not compressed at eaves. R-30 may be used for 500 ft ² or 20% (whichever is less) where sufficient space is not available.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.2.3 [FI3] ¹	Attic access hatch and door insulation ≥ R-value of the adjacent assembly.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.2, 402.4.2.1 [FI17] ¹	Building envelope tightness verified by blower door test result of <7 ACH at 50 Pa. This requirement may instead be met via visual inspection, in which case verification may need to occur during Insulation Inspection.	ACH 50 = ____	ACH 50 = ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.3 [FI8] ²	Wood-burning fireplaces have gasketed doors and outdoor combustion air.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.2.2 [FI4] ¹	Post construction duct tightness test result of ≤8 cfm to outdoors, or ≤12 cfm across systems. Or, rough-in test result of ≤6 cfm across systems or ≤4 cfm without air handler. Rough-in test verification may need to occur during Framing Inspection.	____ cfm	____ cfm	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: All ducts and air handlers are located within conditioned space.
403.1.1 [FI9] ²	Programmable thermostats installed on forced air furnaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.4 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.9.1 [FI12] ³	Readily accessible switch on heaters for swimming pools.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
403.9.2 [FI19] ³	Timer switches on pool heaters and pumps are present.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.9.3 [F120] ³	Heated swimming pools have a cover. Covers on pools heated over 90 °F are insulated to R-12.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement is not applicable.
404.1 [F16] ¹	50% of lamps in permanent fixtures are high efficacy lamps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Electrical specifications
401.3 [F17] ²	Compliance certificate posted.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
303.3 [F118] ³	Manufacturer manuals for mechanical and water heating equipment have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Project Title: 88 Carroll Street Renovated Condition

Report date: 06/27/14

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Opportunities For Broome, Inc.
5 West State Street
Binghamton, NY 13901

54c



2009 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
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Wall	21.00
Floor	21.00
Ceiling / Roof	38.00
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
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Window	0.33	
Door	0.64	

Heating & Cooling Equipment	Efficiency
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Other (Except Gas-Fired Steam)	96 AFUE
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Cooling System: _____

Water Heater: _____

Name: _____ Date: _____

Comments