### Energy Efficiency

The insulation annelope shall meet the requirements of Chapter 4 of the Energy Conservation Construction Code of New York State for Climate Zone 5. Code compliance shall be demonstrated using the PRESCRIPTIVE ENERGY COMPLIANCE METHOD (Per Sertien 402.1 and comply with Requirements of Table 402.1.2)

refy Homes must be blower door tested with results not exceeding 3-ACH50

# The Envelope Thermal values shall be as follows, unless noted otherwise on plans: Extenor wall ....R-20 Cavity \* R-5 (min) Continuous Roof/cailing .....R-49, (If Raised Heel Roof trusses are used then R-38)

Rigid insulation below grade shall be extruded polystyrene as manufactured by DOW Chemical Company or equal (K-0., 183/inch).

Vapor Retarder shall be Class for II vapor retarders on the interior side of frame walks in Climate Zones 5, 6, 7, 8 and Marine 4,

Vanilation of ratter and attic space shall be provided by vented sofffi and raised ridge vent where shown or noted. Provide blocking and battles to edequate air channel for ventilation,

HVAC equipment to be sized based on load calculations in secondarian with ACCA Manual. J. All HVAC supply with Section M1501.3 of the IRQ of NYS, Budding envelope spithass switched by blower don't exceed in County and Section M1501.3 of the IRQ of NYS, Budding envelope spithass switched by blower don't exceed in our county and section of the IRQ of NYS, and section M1501.3 of the IRQ of NYS, Budding envelope spithass switched by blower don't exceed may be sected the section of the IRQ of NYS, and section of the IRQ of NYS

A. All joists and penetrations
B. Fill all violate between jambs and framing with loose or foam insulate.
C. Walls and certifying separating a garage from conditioned space.
B. Fill plants they and showers on exterior wells.
F. Rini judis junctions.
G. Sill plates and headers.

trwater supply pipes shall be located within the thermal envelope. If the house is equipped with a circulating hot water system, it insulated with R-3 minimum and a control switch shall be provided to turn off the circulating pump when the system is not in use

All exterior doors to be provided with weather stripping.

Allow '%' for caulking around perimeter of window and door units. Sealant (extenor) and caufking (interor) to be paintable siften or later compound gun and knife grades as required. All installations shall be in accordance with the IRC as adopted by NYS and manufacturer's specifications.

Sealant backer rod to be closed butyl round joint filler.

See attached Schodule for light, vent and emergency exit compliance and thermal values.

Machanical systems are required to correly with: Chapter 12 Mechanical Chapter 13 General Mechanical System Requirements, Chapter 14 Heating and Cooling Equipment Chapter 15 Educat Systems, Chapter 16 Duct Systems; Chapter 17 Combustion Air: Chapter 18 Chinney and Vents; Chapter 18 Special Fus-Barning Equipment; Chapter 28 Decision Systems, Chapter 24 Fuel Gas.
Chapter 23 Solar Systems, and Chapter 24 Fuel Gas.

Plumbling systems are required to comply with Chapter 25 Plumbling: Chapter 25 General Plumbing Requirements: Chapter 27 Plumbling Fintures. Chapter 28 Water Heaters: Chapter 29 Water Supply and Distribution; Chapter 30 Sanitery Dramage. Chapter 31 Vents; and Chapter 32 Traps.

Electrical systems are required to comply with Chapter 33 Ge43norol Electrical Requirements; Chapter 34 Electrical Definitions; Chapter 35 Services; Chapter 36 Branch and Feeder Requirements, Chapter 37 Writing Methods; Chapter 38 Power and Lighting Dissibution; Chapter 38 Devices and Lighting Februars and Chapter 40 Replacements installation.

Additional provisions that apply, where shown, include Chapter 41 Swimming Pools and Chapter 42 Class 2 Remote-control, Signsking and Power Circuits.

dow selections shown on drawings are provided to demonstrate general conformity with code requirements. The contractor shall coordinate with the supplier to ensure proper specification for floor and door-wendow conformations. Verify all rough opening requirements with field conditions and the supplier. One affected opening schedule.

Door selections shown on drawing are provided to demonstrate general conformity with code requirements. The contractor shall coordinate with the supplied answer proper specification for door and door-window conformitions. Verify all rough opening requirements with field conditions and the supplier. See all abodied specified in the conformition of the supplier of the conformition of the supplier of the conformition of the c

Finishes shall be as selected by the Owner, confirmed for compliance with related provisions of the RCNVS and install as required and/or specified by the

ollance Statement: The precised building design described here is consistent with the building plans, specifications and other calculations submitted with the permit application. The proposed building is in compliance with Section 405.3 of the ICC Energy Conservation Construction Gode as adoated by NY3 to the best of my knowledge, bellef and professional judgment.

### Prescriptive Energy Compliance Method

Per R402 of the 2015 ICC Energy Conservation Code as adopted by NYS

## 2016 Energy Code Requirements - ZONE 6

I	ABLE 402.1.2.	INSULATIO	IN AND E	ENESTRATION	REQUIR	EMENTS BY CO	OMPONENT
Climate Zone	Ennestration Li-Eactor	Skyligita U-Eastor	Calling Bryake	Wood Framed Well ReValue	Elaix R-Value	Basemont Wall ReValue	Sinh ReValue & Debt
6	.32	.55	49 (1)	20 + 5 or 13 + 5	30	15 / 19	R10 to 48"

1.) If Raised Heel Roof Trusses are used then R-38 ceiling insulation may be used

The following Requirements Shall be met to show compilance with the 2015 ICC Energy conservation Construction Code as adopted by NYS.

### 303.1 IDENTIFICATION

401.3 CERTIFICATE

nce certificate posted.

402.4.2.1.TESTING hightness verified by blower door test result not exceeding 3 ACH at 50 Pa.

New wood burning fireplaces that are designed to allow an open burn and new wood burning fireplace units that are which was not suffrage acquaints and conglinot to sound a surface count and their would coming heighbor until a deligined to all of the work on a pen burn what if have tight litting flue dampers or tight fitting doors, and shall be provided with a source of outdoor combustion air in accordance with this cade. "Fight fitting doors used on a bactory built fireplace with the field and labeled of accordance with ULL 327 or on a factory built fireplace with this dad and labeled in accordance with the surface of the field and with the field and the UL 127 shall be tested and listed for such fireplace or fireplace unit. Tight fitting doors used on a masonry fireplace shall be listed and labeled in accordance with UL 907.

Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than

0.3 c/m ser square foot and awinging doors no more than 0.5 c/m per sq fi
Fenestration that is not site built is listed and labeled as insetting AAMA/WDMA/CSA 101/LS.2/A440 or has intiltration
rates per HFEC 400 that do not exceed code limits.

### 402.4.5 RECESSED LIGHTING

IC rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate not more than= 2.0 c/m leakage at 75 Pa.

rogrammable thermostats installed on the primary heating and cooling system of the dwelling.

### 403.3.1 DUCT INSULATION

ducts outside the thermal envelope greater than 3" dia in attics are insulated to R-6. All other ducts in littoned spaces or outside the building envelope are insulated to R-6. Nut applicable if all systems are ductless.

403.2.4.DUCT.LEAKAGE

All joints and seams of air ducts, air handlers, filter boxes, and building caviffes used as return ducts are scaled. Post-construction Duct tightness with maximum leakage of 4 cfm per 100 sq ft of conditioned floor area with air

Rough-in tests, verificanon may need to occur during Framing Inspection, with maximum leakage of 4 cim across 403.3.3 DUCT TESTING (MANDATORY)

Duct testing is mandatory if any part of the ducts and air handlers are outside of the buildings thermal envelope. If any portion of the duct work is outside the buildings thermal envelope a duct leakage test is required.

### 403,3,5 BUILDING CAVITIES

403.6 MECHANICAL VENTULATION (MANDATORY)

Building shall be provided with vernilation that meets the requirements of the IRC as applicable

Outdoor intakes and exhausts shall have automatic or gravity dampers that close when ventilation system is not

### 403.7 EQUIPMENT SIZING & EFFICIENCY RATING

Heating & coaloing equipment shall be sized in accordance with ACCA Manual S in accordance with ACCA Manual J



8/15/2018 A-12

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			IRC 2	015 - R301	.2 (1) C	LINA	IC ANI	JUEC		JESIGN CKI	IEKIM		
	Wind Design				Seismic	Subject to		Winter Design Temp.	Ice-Barrier	Flood	AIR	MEAN	
Ground Snow Load	Speed (mph)	Topographic effects	Special wind region	Wind-borne debris zone	Design Cat.	Washering	Exastins Death	Intrites	Abany / Schenuctady / Henspelaers	Underlayment Reg'd	Hazards	FREEZING INDEX	ANNUAL TEMP
50	115	NO	NO	NO	В	Severe	48"	Med. 19 HeXV		YES	NO	1500	

- CONSTITUTION DISCONDENTS:

  The Archited Efficience has not been related for construction observation or administration and assumes no responsibility for field changes, contractor methods, material selections, product performance or samanity, or safety during construction.

  Law does not permit identification is these documents. The Archited Engineer must approve my pillendown to the crawings. Absent such approval, the Archited Engineer is not responsible for administrative changes. These plans are nationered to device for the construction of an explanation of the production of the same and the production of the construction of a single group of the construction of the same and the sam

- SENERAL NOTES

  1. All General Notes on this sheet shall apply to all drawings.
  2. The Contractor shall be responsible for all construction means, methods, and sequencing and shall be responsible to the Owner for providing a self- work environment during the construction print.

  3. These drawings do not include notessay components for constitution safety. Contractor is responsible for the design and construction of all temporary supports. Brace building until all suscitural elements needed for shalling we excited not construction. This building has been designed no monglation with the requirements of the current Residential Energy Conservation construction. Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Code is New York Shate 8. The Residential Construction Code of New York Shate 8. The Residential Code is New York Shate 8. The Residenti

- Loop on new troit. State a line respensive construction Loop on tree into state. Againstate Loop is the Lord varieties in ADDESS by NYS.

  All makerisks shall be installed in accordance with the manufactural is written instructions and recommendations. The contractor shall deliver to the owner all manufactured is variables, guarantees, literature and operating maturities and it exclusives the state or design maturities. The contractor shall be responsible for verifying field crimentations before ordering materials and produced and variables information and contractor shall be responsible for verifying field crimentations.

  The contractor shall provide all contractors are considered from the contractor shall provide all contractors and contractor shall contract an advantage of the contractor shall contract an advantage of the contractor shall contract an advantage of the contractor shall contract the contractor shall contract an advantage of the contractor shall be responsible for inspecting in some exclusions, to the extent shall satisfies the Contract of the contractor of the
- parametry theorems are some an overlaw of the contractor shall provide a one-year guarantee of materials and workmanship for all work undertaken, committee, the work is also subject to applicable provisions of the home warranty act of New York State.

- The contractor shall provide a one-year guarantee of materials and workmanship for all work undestaken, commencing at sub-completion. The work is also subject to applicable provision of the home warranty act of New York State.
   Concrise footings shall develop minimum compressive strength of 2500 psi @ 28 days. Concrete walls shall develop minimum compressive strength of 3,000 ps.
   All footings and piers to be below foot affoot depth and have minimum 46" earth cover.
   All piers and spriet pro-below foot frost depth and have minimum 46" earth cover.
   All piers and spriet pro-below foot frost depth and have minimum 46" earth cover.
   All footings to be placed on undistributed via.
   Contractor bong states based on minimum 2009 pt 3 via bearing supports.
   All footings to be placed on undistributed via.
   Commettee to southeash boroton minimum 2009 pt 3 via bearing supports.
   All footings to be placed on undistributed via.
   Commettee to southeash boroton that like their formation per plant Install in accordance with R568 8 industry standards.
   You disunder x 12" anchor tokis placed in the middle third of the still plate at all exterior walls 12" from each corner specings—60" on unast from 25 plate in a plate at all exterior walls 12" from each corner specings—60" on unast from 25 plate in a substitute of the still plate at all exterior walls 12" from each corner specings—60" on unast from 25 plate in a substitute of the still plate in the still plate in the still plate at all exterior walls 12" from each corner specings—60" on unast from 25 per footing plate in the still plate at all exterior walls 12" from each corner of undership to a similar subsurface drainage.
   Provise all droweds £2" and depth to be determined in field as required to the still plate at all exterior to fundation well as required to plate at all exterior to fundation well from 10 per footing to

- To the best of nur knowledge those plans and drawn to comply with the counts' and of the bulletin's specifications and any changes made on these trainings once they have our contrain a mode at the owner's and in bulletin's and in the many contraining and represent. It is the sub-interpretability of any interested party is wright off memoria. It is the sub-interpretability of any interested party is wright off memoria changing any plans and the properties of the properties of the properties of this glets to save inhalters. Per maker our ord parameter appretation wave. The reduction or specification of bulleting materials added in this changing beat our in which contrained on the state of changing beat party which contrained on the state of properties. Schielling, solidally, under other and the fulleran quantically, declared all cuts humanities.

- TRUCTURAL NOTES:

  1. All structural design elements and components are derived from applicable provisions of the 2015 International Residential Code as autoptics by New York State unless otherwise notes on the drawings. Where notes certain structural members may be designed using:

  -The American forest and paper association (AF&RA) and solely applications in display specifications in display specification design. All minus display specifications in display spread, in accordance with table R401.4.1 the load bearing pressure used for the design of all foundation supering elements is 200 poil for sand, sity sand, dayay sand, sky gravel and object green. If other soil specification in the excavation, or if the actual soil bearing pressure is questionable, consult with the Arthried T-Rignerer

  3. It is not adiopted that ground water will be encountiered in excitavations. Foolings shall not be encounted within the second of the property of the state of the second Arthrites of Proteins of the second of the sec
- inca i ringimeer It antiopated that ground water will be encountered in excavations. Foolings shall not be poured within seasonal high ground nes, consult Architect / Engineer if high ground water is encountered

# FRAMING NOTES

- use 8 door headers to be two (2) 2x10's unless otherwise noted (see framing plans). All headers in openings 72° or more must be supported by dbl jack studs

- 1. All worders of door headers to be too (2) 72 ft/s unless otherwise noted (see framing plans). All headers in openings 72° or more must be supported by dbl jack stude
  2. All word framing to be 8' minimum above adjaining fresh paged.
  2. All word framing to be 5' minimum above adjaining fresh paged.
  3. All Firming to be inderted in accordance with table R802 2 (1) of the 2015 bittenedions Residential Code as Adjected by RYS
  4. All extrains walfs to be Continuously Shastimes 2.6 dbg 16° car. with R-21 fiberglass batt insulation unless noted otherwise.
  3. All fittering subtross to the 248 gif 5' car. except where noted.
  5. Install metal or vacced tradings of the microgram of all plats sparse succept where noted. Not Regid with Engineered Josés.
  6. Installa metal or vacced tradings of the microgram of all plats sparse succept where noted. Not Regid with Engineered Josés.
  6. Installa metal or vacced tradings of the microgram of all plats sparse succept where noted. Not Regid with Engineered Josés.
  6. Installa metal or vacced tradings and residential section of the stallar sparse and the provide code the interior plat of adjacet to the plat of direction. Modify floor training as required to accommodate plumbing and residential residential extrained and extrained and plate the plate of the

- PLUMBING. HEATING. VENTILATING. AND AIR CONDITIONING SYSTEMS.

  4. All HAVE work, equipment, etc. shall be in accordance with the 2015 International Residential Code as Adopted by NYS.

  2. The HAVE Contractor shall conduct all lests and inspections of the installation of his work as required by the Contractor shall provide all corror damps. All control twenty shall be concasted from view.

  5. The Contractor shall provide all corror damps. All control twenty shall be concasted from view.

  6. The Contractor shall provide all corror damps. All control twenty shall be concasted from view.

  7. The Contractor shall provide all corror damps. All control twenty shall be concasted from view.

  8. The Contractor shall provide all complete with fresh as intakes, plass doors, freprior files, spark arrestor, required flashings, and pairs required As NECESSARY for a complete installation. More data selected by one mer if applicables.

  8. Balterom and driver shalls to vent to exterior per code.

  9. The Contractor and the Courter shall be responsible for the specification of all heating and ventilating equipment and restricting one of matching in some installation. More after the Contractor shall sound the equipment page of imministration of internations of installation and the Courter shall shall be reported before of imministration proof immers and contractor of approval.

  9. All news spaces shall be provided the equipment page of imministration proof immerspectually all least 55 digress at a point 3 feet above the floor and 2 feet from exterior walls.

  11. Programmable themostatis shall be provided.

  12. PLUMBING Connactor shall completely with the 2015 International Residential Code as Adopted by NYS for the design and installation of all plumping system components. All work shall be imprected as required during construction and approved at the end of the project by the boal antoncament authority.

  ELECTRICAL NUTSES.

- ELECTRICAL NOTEs:

  1. All work shall correly with the 2015 International Residential Code as adopted by NYS.

  1. All work shall correly with the 2015 International Residential Code as adopted by NYS.

  2. The Electrical Contractor shall coordinate his work with the work of all other trades & all work shall be performed by mechanics shilled in the electrical trade.

  3. All wing shall be concepted above cellings or within walls unless otherwise noted. All exposed wrining shall be located so that it is out of view as much as possible. All exposed conduit shall be done in the centest and monthly fairly.
- neatest and most orderly fashion.

  4. HAVE caysiment sails be by others. Coordinate with the Healing and Pfumbing Contractors and provide all line values wiring and connections to their equipment as required.

  5. Ground Fealt Receptuales must be provided and the residential code of New York stuffe.

  6. HCT receaseds will be provided in all betworms.

  7. Minimum of 75% of parmamently installed light futures shall be raided for energy efficiency. (i.e. CFL, LED, etc)

- 7. partners or 25% operationally instead by a contraction of the contr
- Somple & Curron monoride alarmar must be provided with haltery backup, either internal or remote.

  3. Somple & Curron monoride alarmar must be provided with haltery backup, either internal or remote.

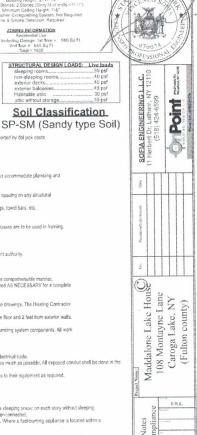
  4. Hard-wired detecting devices must be powered from a lighting circuit with no intervening switches. Electronic, low-violtage systems are allowed provided the system compiles with NFPA 72.

### ENERGY NOTES:

To the best of my knuskedge, belief and professional judgment, Attached olens and specifications are in compliance with Chapter 11 of the 2015 International Residential Code as adapted by NYS.
 Builder shall place an executed New York State Residential Building Energy Standards certificate on or near the electrical panel per Chapter 4 Section 491.3 of NYS ECCC.

2015 International Residential Code as Adopted by NYS-REVIEW Occupancy Single Family Deeling
Classification by Construction Type Frame Construction
Bulling Region Type Frame Construction
Bulling Region (Story N of while settling)
Minimum College (Sony N of while settling)
Minimum College (Sony N of while settling)
Special Robins of Engulshing System, Not Required
Fire 5 Sinote Deleticen Required

ZONING INFORMATION Residential Use
Sq Ft not inducting Garage. 1st floor = 950 Sq Ft
2nd floor = 955 Sq Ft
Total = 1625



General Code Col

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