

Application to the HISTORIC DISTRICT COMMISSION, Nantucket, Massachusetts, for a

CERTIFICATE OF APPROPRIATENESS

for structural work.

NOTE: It is strongly recommended that the applicant be familiar with the HDC guidelines, *Building with Nantucket in Mind*, prior to submittal of application. Please see other side for submittal requirements. Incomplete applications will not be reviewed by the HDC.

This is a contractual agreement and must be filed in ink. An application is hereby made for issuance of a Certificate of Appropriateness under Chapter 395 of the Acts and Resolves of Mass., 1979, for proposed work as described herein and on plans, drawings and photographs accompanying this application and made a part hereof by reference.

The certificate is valid for three years from date of issuance. No structure may differ from the approved application. Violation may impede issuance of Certificate of Occupancy.

PROPERTY DESCRIPTION

TAX MAP NO. 56 PARCEL NO. 158
 Street & Number of Proposed Work: 4 Pond Road
 Owner of record: Mack Aguir
 Mailing Address: 4 Pond Road
Nantucket, MA 02554
 Contact Phone # 508.332.0104 E-mail Mack.Aguir@plhig.com

AGENT INFORMATION (if applicable)

Name: Timothy Holmes / Swinbird, LLC
 Mailing Address: Po Box 700
11601 Street, MA 02631
 Contact Phone # 508.246.1350 E-mail Timothy@swinbird.com

FOR OFFICE USE ONLY

Date application received: _____ Fee Paid: \$ _____
 Must be acted on by: _____
 Extended to: _____
 Approved: _____ Disapproved: _____
 Chairman: _____
 Member: _____
 Member: _____
 Member: _____
 Member: _____
 Member: _____
 Notes - Comments - Restrictions - Conditions

DESCRIPTION OF WORK TO BE PERFORMED

(See reverse for required documentation.)

- New Dwelling Addition Garage Driveway/Approach Commercial Historical Renovation Deck/Patio Steps Shed
 Color Change Fence Gate Hardscaping Move Building Demolition Revisions to previous Cert. No. 15801

Pool (Zoning District _____) Roof Other: Roof top solar panels
 Size of Structure or Addition: Length: _____ Sq. Footage: 1st floor: _____ Deck/Patio: Size: _____ 1st floor 2nd floor
 Width: _____ Sq. Footage: 2nd floor: _____ Size: _____ 1st floor 2nd floor
 Sq. Footage: 3rd floor: _____

Difference between existing grade and proposed finish grade: North _____ South _____ East _____ West _____

Height of ridge above final finish grade: North _____ East Elevation _____ East _____ West _____

Additional Remarks:

- Historic Name: (describe) 1. South Elevation
2. South Elevation
3. West Elevation
4. North Elevation

Original Date:

Original Builder:

*Cloud on drawings and submit photographs of existing elevations.

DETAIL OF WORK TO BE PERFORMED

Foundation: Height Exposed _____ Block Block Parged Brick (type) _____ Poured Concrete Piers

Masonry Chimney: Block Parged Brick (type) _____ Other _____

Roof Pitch: Main Mass: /12 Secondary Mass: /12 Dormer: /12 Other _____

Roofing material: Asphalt 3-tab Architectural

Solar Wood (Type: Red Cedar, White Cedar, etc.) _____

panels

Skylights (if any): Manufacturer: LG (All Black) Rough Opening: 3'5" x 5'4" Size: _____ Location: _____

Manufacturer: _____ Rough Opening: _____ Size: _____ Location: _____

Gutters: Wood Aluminum Copper Leaders (material): _____

Leaders (material and size): These have a new black roll. I have solar panels on roof roof.

Sidewall: White cedar shingles Clapboard (exposure: _____ inches) Front Side

Other: The solar array is not visible from a traveled way

Trim: A. Wood Pine Redwood Cedar Other _____

B. Treatment: Paint Natural to weather Other _____

C. Dimensions: Facia: _____ Sill: _____ Soffit (Overhang): _____ Corner boards: _____ Finis: _____

Window Casing: _____ Door Frame: _____ Columns/Pilasters: Round _____ Square _____

Windows: Double Hung Casement All Wood Other _____

True Divided Light (number): single pane SCL's (Simulated Divided Light) Manufacturer: _____

Doors: (type and material): T&G SCL Front _____ Rear _____ Side _____

Garage Door(s): Type _____ Material _____

Handicapped materials: Driveways _____ Walkways _____ Walls _____

* Note: Complete door and window schedules are required.

COLORS

Sidewall: _____ Clapboard (if applicable): _____ Floor: _____

Trim: _____ Sill: _____ Doors: _____

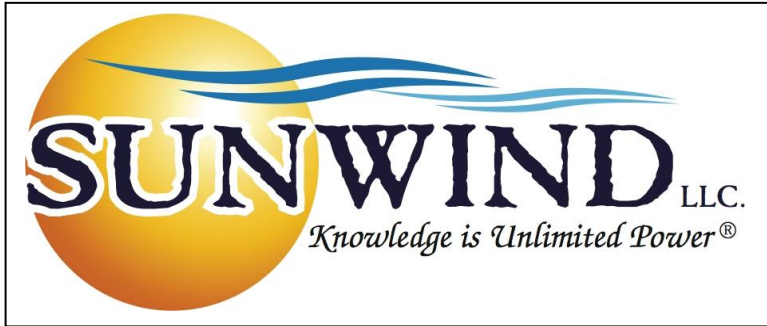
Deck: _____ Foundation: _____ Fence: _____ Shutters: _____

* Attach manufacturer's color samples if color is not from HDC approval list.

I hereby authorize the agent named above to act on my behalf to make changes in the specifications or the plans contained in this application in order to bring the application into compliance with the HDC guidelines. I hereby agree to abide by and comply with the terms and conditions of this application. I hereby agree that the submittal of any revisions to this application will initiate a new sixty-day review period.

Date: 8/20/2021 Signature of owner of record: Timothy Holmes

Sealed under penalties of perjury



300 Cranberry Highway
Orleans, MA 02653
508-246-6350
tholmes@sunwindllc.com

Nantucket Historic District Commission
Certificate of Appropriateness Application
Proposed Solar System

Client: Mark Aguiar
4 Pond Road
Nantucket, MA 02554

Assessors Map Number: 56
Lot Number: 158

Property ID: 4138

Year Built: 1994

Use: 1010

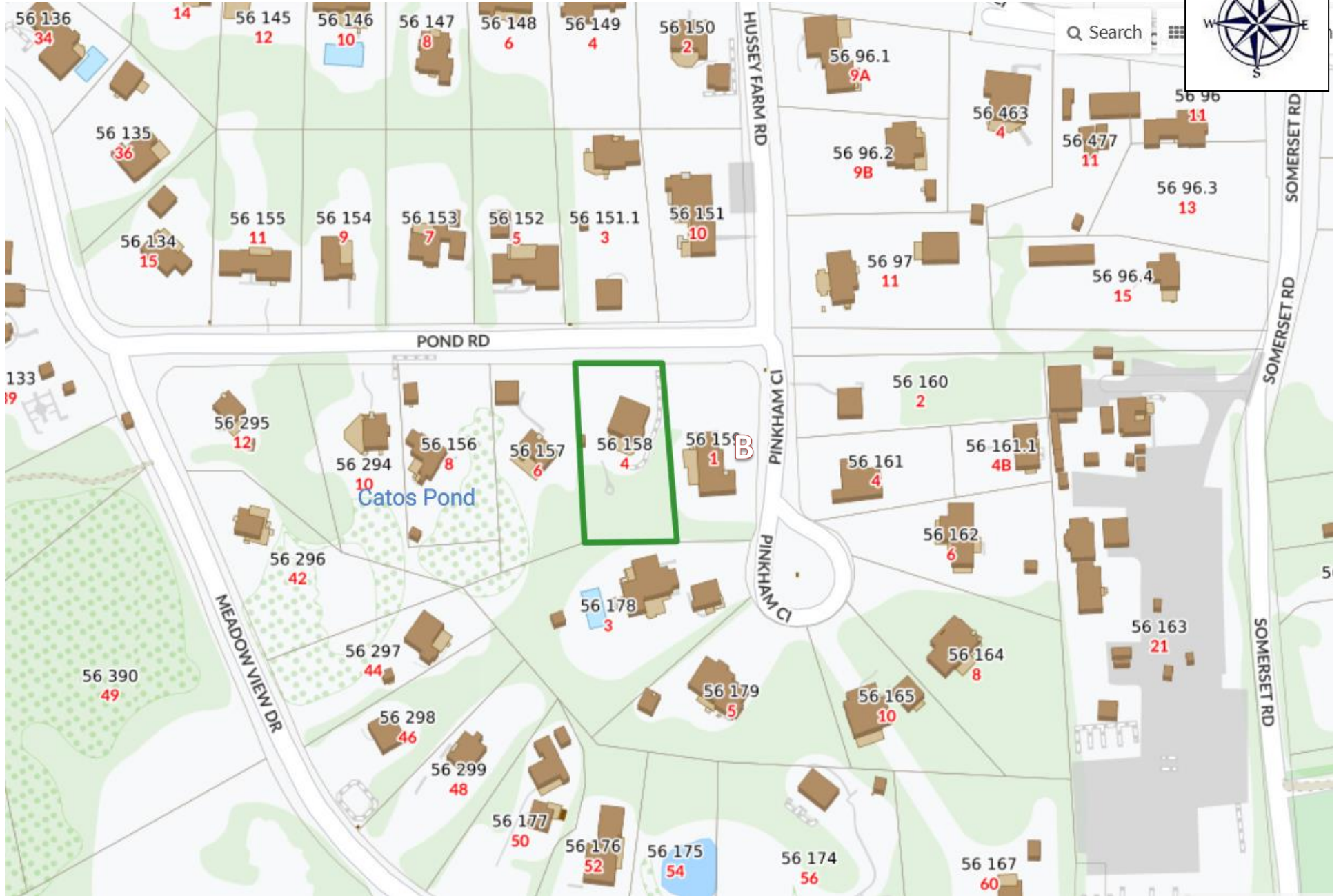
Description: Single Fam MO1

Zone: R20

Property Size: .46 Acres

Locus Map

4 Pond Road

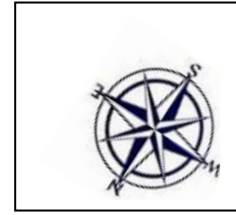


Proposed Solar Panel Location





View of driveway into property from the street



View along road in front of the property looking southeast



LG NeON² Black

LG320N1K-A5

60 cell

LG's new module, LG NeON², adopts Cello technology. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. LG NeON² demonstrates LG's efforts to increase customer's values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and aesthetic design suitable for roofs.



Enhanced Performance Warranty

LG NeON² Black has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.55%/yr. Even after 25 years, the cell guarantees 1.2% more output than the previous LG NeON² Black modules.



High Power Output

Compared with previous models, the LG NeON² Black has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.



Aesthetic Roof

LG NeON² Black has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product may help increase the value of a property with its modern design.



Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON² Black for an additional 2 years. Additionally, LG NeON² Black can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Better Performance on a Sunny Day

LG NeON² Black now performs better on sunny days thanks to its improved temperature coefficient.



Double-Sided Cell Structure

The rear of the cell used in LG NeON² Black will contribute generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

About LG Electronics

LG Electronics is a global player who has been committed to expanding its capacity based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released the first Mono X² series to the market in 2010, which were exported to 32 countries in the following 2 years; thereafter, in 2013, LG NeON² (previously known as Mono X² NeON) won "Inversolar Award", which proved LG is the leader of innovation in the industry.

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1686 x 1016 x 40 mm 66.38 x 40 x 1.57 inch
Front Load	6000Pa
Rear Load	5400Pa
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Cables	1000 mm x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

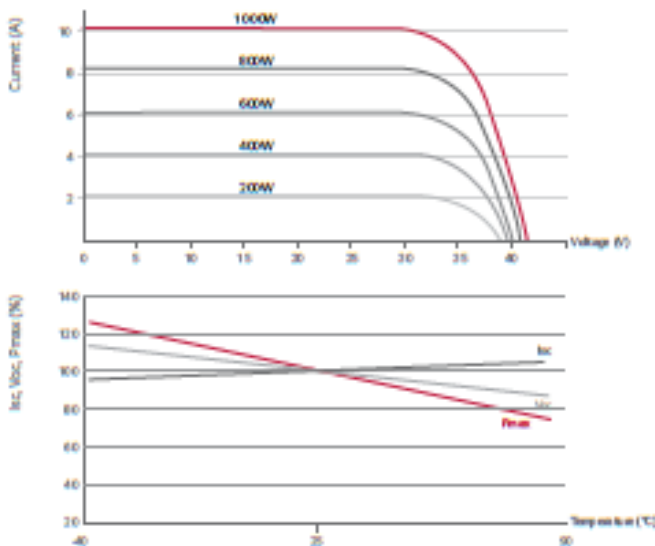
Certifications	IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001
Module Fire Performance (USA)	Type 2
Fire Rating (CANADA)	Class C
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty**

** 1) 1st year: 98%, 2) After 1st year: 0.55% annual degradation, 3) 25 years: 84.8%

Temperature Characteristics

NOCT	45 ± 3 °C
Pmpp	-0.37%/°C
Voc	-0.27%/°C
Isc	0.03 %/°C

Characteristic Curves



North America Solar Business Team
 LG Electronics U.S.A., Inc.
 1000 Sylvan Ave., Englewood Cliffs, NJ 07632
 Contact: lgsolar@lge.com
 www.lgsolar.us.com

Product specifications are subject to change without notice.

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 01/01/2017

Innovation for a Better Life



Electrical Properties (STC *)

Module	LG320N1K-A5
Maximum Power (Pmax)	320
MPP Voltage (Vmpp)	33.3
MPP Current (Impp)	9.62
Open Circuit Voltage (Voc)	40.8
Short Circuit Current (Isc)	10.19
Module Efficiency	18.7
Operating Temperature	-40 ~ +50
Maximum System Voltage	1,000
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

* STC (Standard Test Condition): Irradiance 1,000 W/m², Ambient Temperature 25 °C, AM 1.5

* The name plate power output is measured and determined by LG Electronics at its sole and absolute discretion.

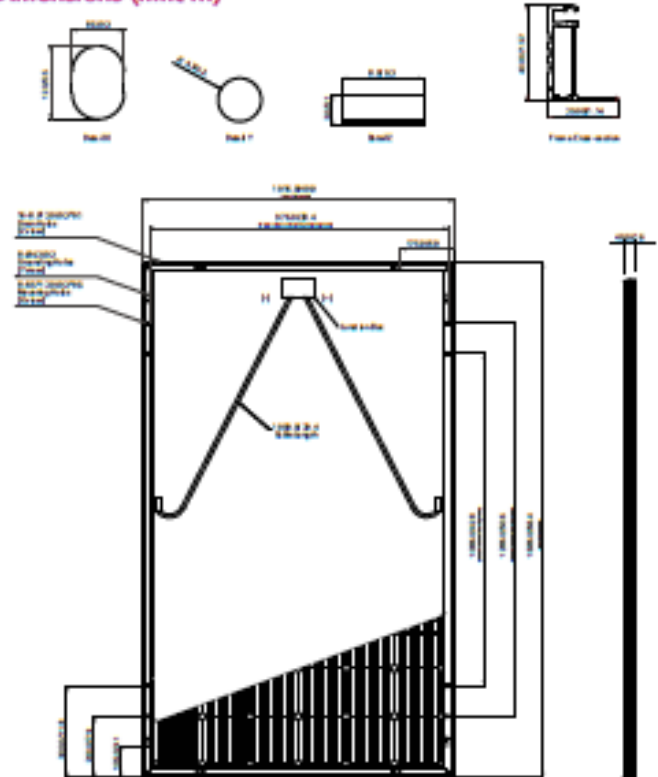
* The typical change in module efficiency at 200 W/m² in relation to 1000 W/m² is -2.0%

Electrical Properties (NOCT*)

Module	LG320N1K-A5
Maximum Power (Pmax)	236
MPP Voltage (Vmpp)	30.8
MPP Current (Impp)	7.67
Open Circuit Voltage (Voc)	38.0
Short Circuit Current (Isc)	8.20

* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², ambient temperature 20 °C, wind speed 1m/s

Dimensions (mm/in)





Planning and Land Use Services

2 Fairgrounds Road, Nantucket, Massachusetts 02554

Telephone: 508.325.7587, Fax: 508.228.7298

THIS CHECKLIST IS TO BE SUBMITTED WITH ALL HDC APPLICATIONS

REQUIRED WITH ALL APPLICATIONS:

1. Completed Application Form: Description of ALL work must be indicated on application form.
2. Property Owner's Signature: Current owner's signature preferred; if the agent is signing the application written authorization from the owner (letter, fax, email) must be provided.
3. Application Fee: See back of application for fee schedule or call the office.
4. Locus Map (4 copies): Location Map must include north arrow, parcel boundaries, primary and secondary streets. (Town GIS Map Site) <http://www.mapgeo.com/NantucketMA/>.
5. Site Plan (4 Copies): must include the following: lot dimensions, north arrow, all existing structures, proposed work (highlighted) with dimension to lot lines, scale, driveway, grade changes, and placement of HVAC units, electrical boxes, fuel tanks, etc.
6. 8-1/2" x 11" Copies of ALL Application Materials: Must include the following: application form (reduced 64%), locus map, plot plan, all elevations and floor plans, window schedule, photographs, other relevant supporting material. All material MUST BE LEGIBLE (font size no smaller than 12), collated and stapled.
7. Photographs: Required of ALL applications for alterations to an existing structure. Photographs must be clear and labeled with application address or contextual address.
8. Electronic submission: All documents submitted to the HDC office must also be converted to Adobe Acrobat format <http://www.adobe.com/acrobat/>; this is free software that may have come pre-loaded on your computer. Electronic copies can also be created using the scanner located in the Department of Inspectional Services.

REQUIRED WHERE APPLICABLE :

1. Supplemental Information for Historic Buildings: It is the applicant's responsibility to research the historical status of any and ALL buildings. Additional information may be obtained from the Nantucket Historical Association Library. If not historic, denote on application.
2. Exterior Elevations and Floor Plans (4 copies): Must be 1/4"-inch scale and include all affected sides of the building, cardinal points (N, S, E, W), dimensions, heights, floor and ceiling heights, elevations of finished grade, window details and placement of HVAC units, electrical boxes, fuel tanks, etc. All changes from approved or existing design must be clouded on drawings. All material MUST BE LEGIBLE, collated and stapled. Reduced sets should maintain a font size of 12.
3. As-Built Plans (1 copy): of existing elevations
4. Hardscaping Plans (4 copies): To legible scale. This includes fences, decks, porches, arbors, retaining walls, tennis courts, swimming pool, driveways, gazebos etc. All material MUST BE LEGIBLE, collated and stapled.
5. Topographic Map: Must show existing and proposed grade for any change of more than one foot in height on grade. Retaining walls must be applied for separately (see hardscaping plan).
6. Door and Window Schedule (4 copies): Must include window type (true divided, simulated divided), number of lights, dimensions, materials, manufacturers type name and type number.
7. I UNDERSTAND THAT A TRUE DIVIDED LIGHT WINDOW/DOOR IS DEFINED AS MULTIPLE INDIVIDUAL SINGLE PANES OF GLASS (i.e., NOT DOUBLE-PANED OR INSULATED) ASSEMBLED IN THE SASH/DOOR USING MUNTINS.
8. Abutter Notification Materials - Abutters list from Assessors Office, certified mail stubs, and a copy of letter are required for all applications for changes of 1000 square feet or more except in the Nantucket Historic Core and Sconset Historic Core where the requirement for new construction is 100 square feet.
9. Approvals from Planning Board, Zoning Board of Appeals, Conservation Commission etc.

(initial to indicate read and understand)