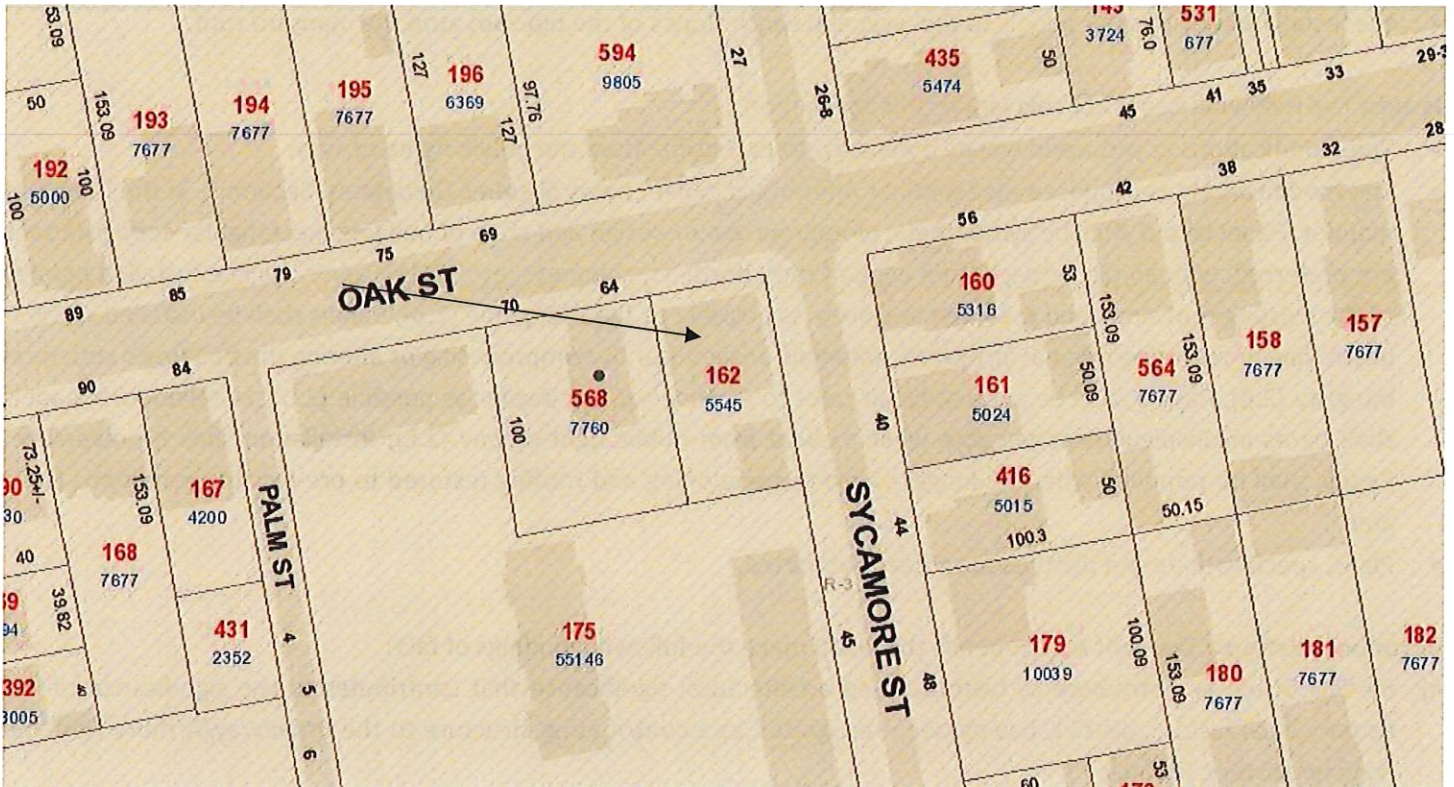
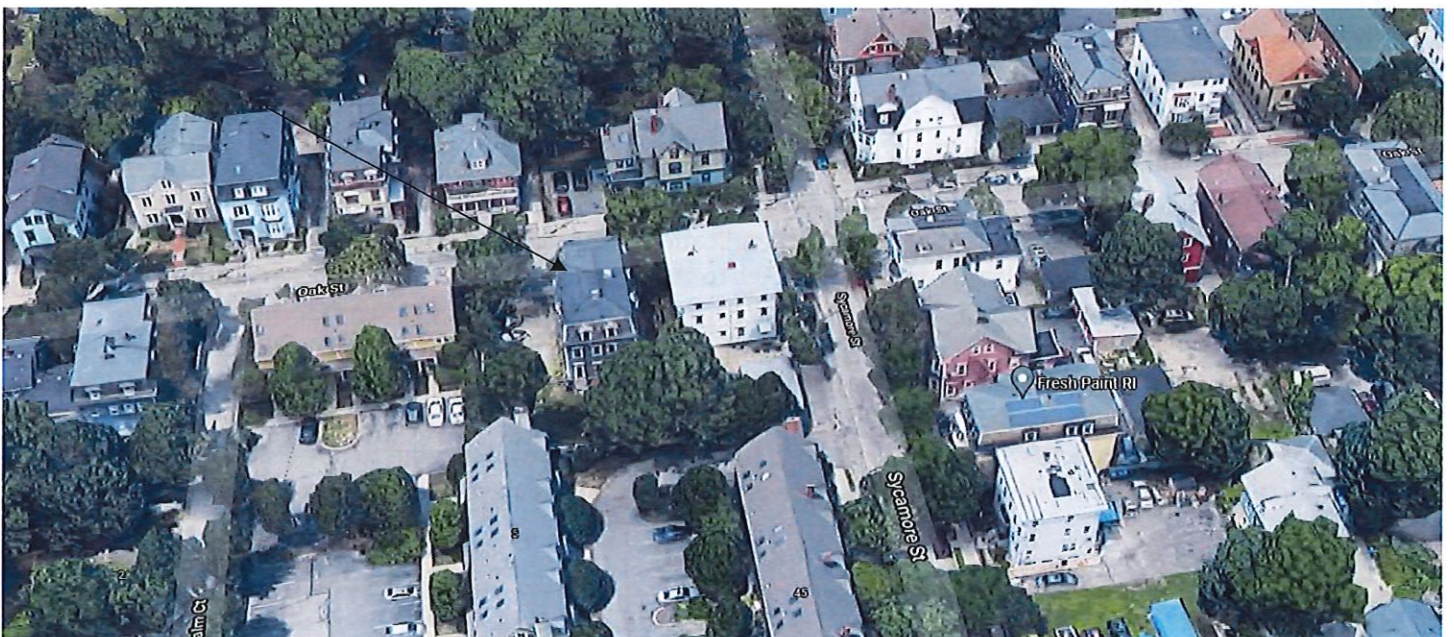


7. CASE 21.127, 64 OAK STREET, Amos Fiske and Thomas Waterman House, c1876 (ARMORY)

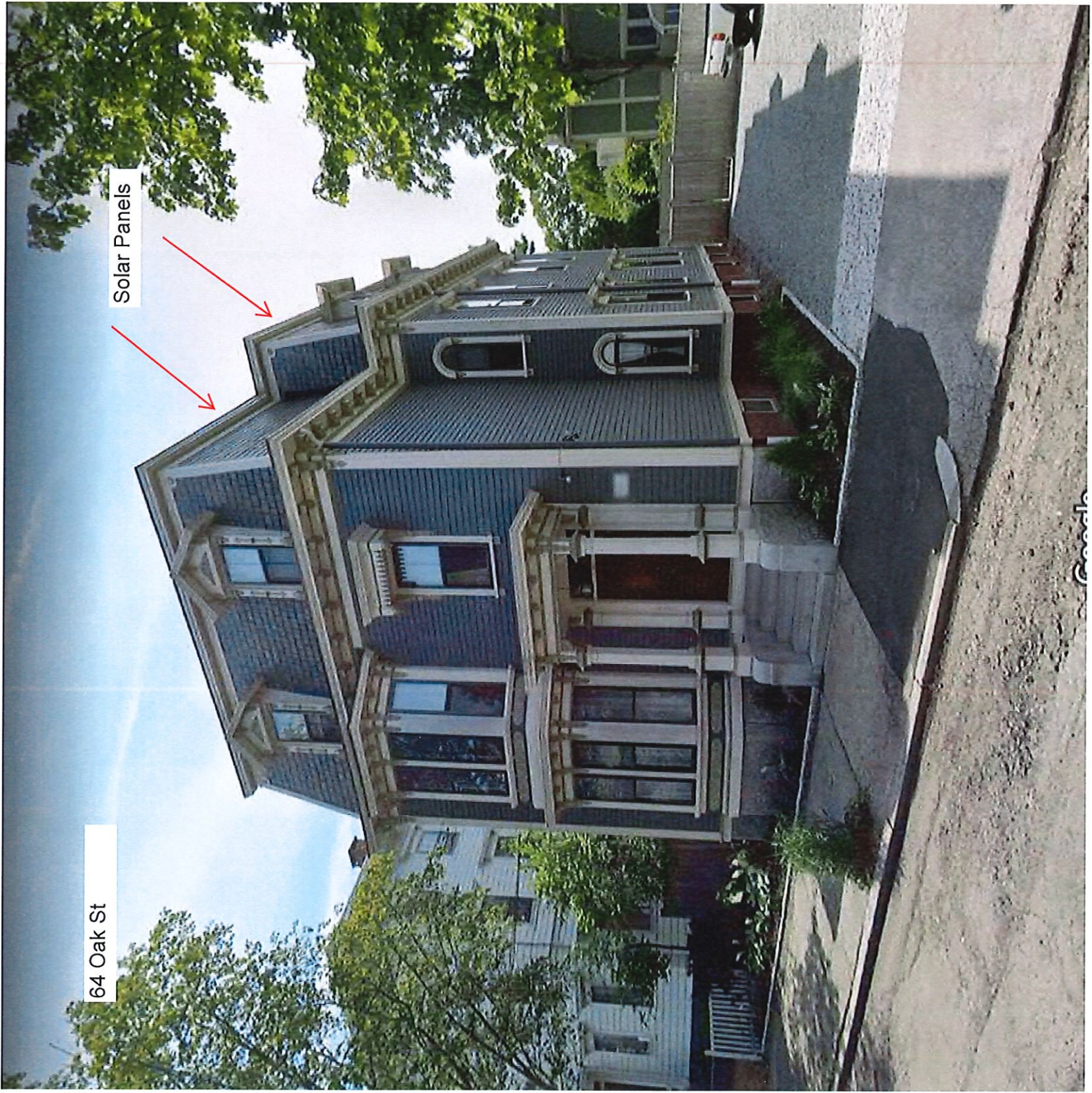
2½-story; slate mansard; clapboard handsomely detailed Italianate house; with pedimented gable dormers, bracketed cornice with paired brackets at corners, bracketed window caps, 2-story bay and Italianate sidehall entry porch with iron cresting.
CONTRIBUTING



Arrow indicates 64 Oak Street



Arrow indicates project location, looking north.



Solar Panels

64 Oak St

Front left side of
64 Oak St

New conduit run
from bottom of
second story
molding to meter,
next to existing
utility wiring

New exterior
disconnect for
utility and first
responders



Front left side of
64 Oak St

New conduit run
from bottom of
second story
molding to meter,
next to existing
utility wiring





System:
 16 LG 375W modules
 1 SolarEdge SE 6000H-US inverter
 6 kW DC
 6 kW AC Solar
 5 kW AC Battery
 11 kW AC Aggregate

North

Main Electrical Panel

Utility Meter

Utility Disconnect

AC coupled battery located in basement

13 panels at 258 degree orientation

3 panels at 168 degree orientation

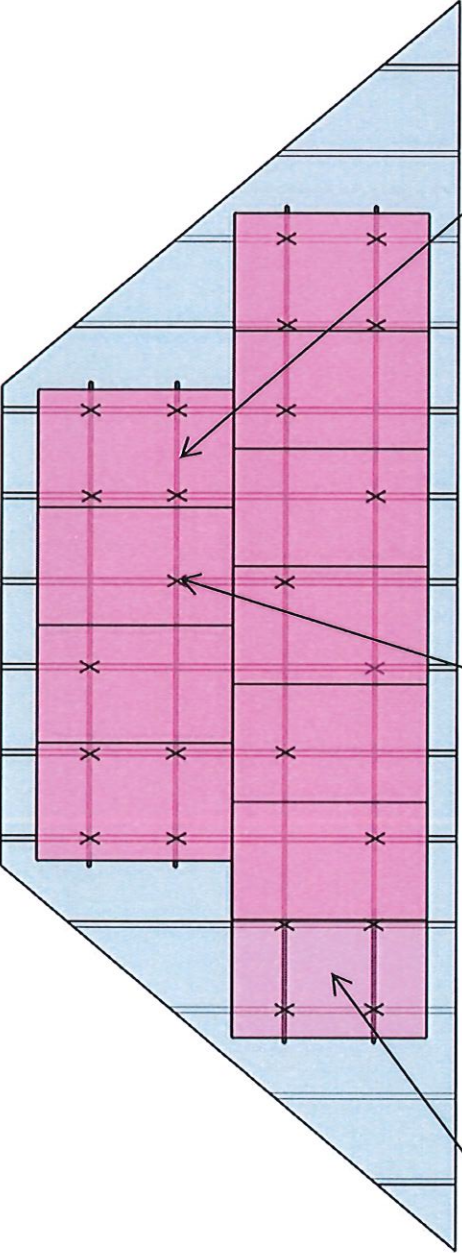


Site Location: Laurence Hirshberg
 64 Oak Street
 Providence, RI 02909

Structural Layout Drawing
 Created By: Abel Collins
 Date: 11/2/2021

Sol Power
 11 Almy Street
 Providence, RI. 02909

13'4"



LG 375 Watt solar panels
(40mm frame)

IronRidge L-Foot Attachments

IronRidge XR100 Rails

Array area (square ft): 218.2
 Hurricane ties present: No
 Flush Roof Mount PV Array
 Roof Type: Asphalt Shingle
 Roof Rafters: true 2x7" rafters 30" OC
 Roof Pitch: 12 degrees
 Roof Orientation: 258
 Mean Roof Height: 30'

Loading, 120mph wind, 30 psf snow:
 Total Weight (lbs): 529.1
 Weight/Attachment (lbs): 22.0
 Distributed Weight (psf): 2.4
 Max Downforce at Attachment (lbs): 249
 Max Uplift at Attachment (lbs): -337
 Lateral Reaction at Attachment (lbs): 47
 Max Cantilever: 2'
 Max attachment span: 5'
 Total # of Attachments: 24

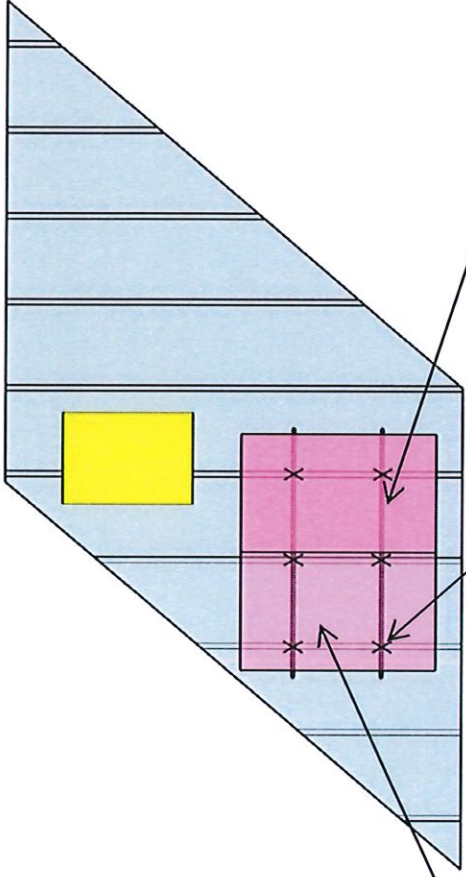


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Structural Layout Drawing
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 Date: 11/2/2021

Sol Power
 11 Almy Street
 Providence, RI. 02909

13'4"



LG 375 Watt solar panels
(40mm frame)

IronRidge L-Foot Attachments

IronRidge XR100 Rails

Array area (square ft): 40.2
Hurricane ties present: No
Flush Roof Mount PV Array
Roof Type: Asphalt Shingle
Roof Rafters: true 2x7" rafters 30" OC
Roof Pitch: 12 degrees
Roof Orientation: 182
Mean Roof Height: 30'

Loading, 120mph wind, 30 psf snow:
Total Weight (lbs): 106.0
Weight/Attachment (lbs): 17.7
Distributed Weight (psf): 2.6
Max Downforce at Attachment (lbs): 192
Max Uplift at Attachment (lbs): -261
Lateral Reaction at Attachment (lbs): 36
Max Cantilever: 1'
Max attachment span: 2'6"
Total # of Attachments: 6



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Sol Power
11 Almy Street
Providence, RI. 02909

12'11"

The diagram shows a cross-section of a gabled roof. A yellow rectangular solar panel array is mounted on the left side. Below it, a pink rectangular area represents the solar panel array, with 'X' marks indicating attachment points. The roof structure includes rafters and a ridge. Labels with arrows point to 'IronRidge L-Foot Attachments' and 'IronRidge XR100 Rails'. A dimension line at the top indicates a width of 12'11".

LG 375 Watt solar panels
(40mm frame)

IronRidge L-Foot Attachments

IronRidge XR100 Rails

Array area (square ft): 59.8
 Hurricane ties present: No
 Flush Roof Mount PV Array
 Roof Type: Asphalt Shingle
 Roof Rafters: true 2x7" rafters 30" OC
 Roof Pitch: 12 degrees
 Roof Orientation: 168
 Mean Roof Height: 15'

Loading, 120mph wind, 30 psf snow:
 Total Weight (lbs): 170.4
 Weight/Attachment (lbs): 14.2
 Distributed Weight (psf): 2.8
 Max Downforce at Attachment (lbs): 149
 Max Uplift at Attachment (lbs): -202
 Lateral Reaction at Attachment (lbs): 28
 Max Cantilever: 2'
 Max attachment span: 5'
 Total # of Attachments: 12



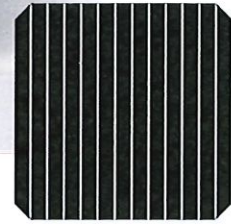
Site Location: Laurence Hirshberg
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Structural Layout Drawing
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 Date: 11/2/2021

Sol Power
 11 Almy Street
 Providence, RI. 02909

LG NeON[®] 2

LG370N1C-A6 | LG375N1C-A6 | LG380N1C-A6 Preliminary



370W | 375W | 380W

The LG NeON[®] 2 is LG's best selling solar module and one of the most powerful and versatile modules on the market today. The cells are designed to appear all-black at a distance, and the performance warranty guarantees 90.6% of labeled power output at 25 years.



Features



Enhanced Performance Warranty

LG NeON[®] 2 has an enhanced performance warranty. After 25 years, LG NeON[®] 2 is guaranteed at least 90.6% of initial performance.



25-Year Limited Product Warranty

The NeON[®] 2 is covered by a 25-year limited product warranty. In addition, up to \$450 of labor costs will be covered in the rare case that a module needs to be repaired or replaced.



Solid Performance on Hot Days

LG NeON[®] 2 performs well on hot days due to its low temperature coefficient.



Roof Aesthetics

LG NeON[®] 2 has been designed with aesthetics in mind using thinner wires that appear all black at a distance.

When you go solar, ask for the brand you can trust: LG Solar

About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX[®] series to the market, which is now available in 32 countries. The NeON[®] (previous MonoX[®] NeON), NeON[®]2, NeON[®]2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.

