

# ARCHITECTURAL & PRELIMINARY SITE PLAN REVIEW BOARD

MICHAEL F. LONGOBARDI – VILLAGE TRUSTEE LIAISON TIMOTHY T. TWEEDY, P.E. – CHAIRMAN JOHN LOCKWOOD ANTHONY KRUZYNSKI ROGER KUEHNLENZ EDWARD CHATTERTON

RENEE MARCUS, AIA – SUPERINTENDENT OF BUILDINGS LUCILLE LANGONE – SECRETARY

JANUARY 24, 2024 8:00 pm NOTE LOCATION: RECREATION CENTER - POOL BUILDING

| Case<br>No. | Approximate<br>Time | Address #   | Street            | Description                       | Owner                        | Design Professional      |
|-------------|---------------------|-------------|-------------------|-----------------------------------|------------------------------|--------------------------|
| 1           | 8:00 p.m.           | 151         | Tulip Avenue      | Sign                              | OJIP Realty                  | City Signs & Fabrication |
| 2           | 8:05 p.m.           | 27          | Covert Avenue     | Sign                              | Raymond<br>Caccavalle        | Sign A Rama              |
| 3           | 8:10 p.m.           | 100         | Jericho Turnpike  | Sign                              | 100 Jericho LLC              | Dezant Signs Inc.        |
| 4           | 8:15 p.m.           | 231         | Crocus Avenue     | Solar                             | Joseph Loftus                | Venture Solar            |
| 5           | 8:20 p.m.           | 262         | Tulip Avenue      | Solar                             | Daniel Mclaughlin            | Momentum Solar           |
| 6           | 8:25 p.m.           | 296         | Carnation Avenue  | Solar                             | Andre<br>Ramsamugh           | Empower Solar            |
| 7           | 8:30 p.m.           | 347         | Plainfield Avenue | 2 <sup>nd</sup> Floor<br>Addition | Arthur Walsh                 | Demetris Demetriou       |
| 8           | 8:35 p.m.           | 24          | Fern Street       | Renovation                        | Robert and<br>Shanthy Hughes | DRV Architect, PC        |
| 9           | 8:40 p.m.           | 132         | Crocus Avenue     | Garage Addition                   | Raymond<br>Gallagher         | Christopher Dowdell      |
| 10          | 8:45 p.m.           | 141,143,145 | Emerson Avenue    | New Houses<br>and Garages         | Kuldeep Waraich              | William Cook, RA         |

Questions about the projects can be emailed to <u>ARB@FPVillage.org</u> prior to the meeting to allow for the Village and Applicant to be prepared with answers.

Supporting documents will be posted to the Architectural Review Board web page at least 24 hours prior to the meeting.

Click <u>here</u> for the ARB webpage.

| Case<br>No. | Approximate<br>Time | Address # | Street       | Description | Owner       | Design Professional      |
|-------------|---------------------|-----------|--------------|-------------|-------------|--------------------------|
| 1           | 8:00 p.m.           | 151       | Tulip Avenue | Sign        | OJIP Realty | City Signs & Fabrication |



151 Tulip Avenue (Aerial View)









| Case<br>No. | Approximate<br>Time | Address # | Street        | Description | Owner              | Design Professional |
|-------------|---------------------|-----------|---------------|-------------|--------------------|---------------------|
| 2           | 8:05 p.m.           | 27        | Covert Avenue | Sign        | Raymond Caccavalle | Sign A Rama         |



27 Covert Avenue (Aerial View)



### Google Maps 27 Covert Ave



Image capture: Oct 2022 © 2023 Google





Email: westhempstead@signarama.com Web Site: www.signarama.com/ny-west-hempstead PLEASE REQUEST ONE IN YOUR RESPONSE

APPROVE OR REQUEST REVISION VIA EMAIL/FAX

H:\JOBS\West Hempstead Layouts\2023\Nonna's Deli Corp #21909 File: Nonna's Deli Corp #21909 10-04-23.fs Date: 10/6/2023 Time: 11:11:21 AM

| Case<br>No. | Approximate<br>Time | Address # | Street           | Description | Owner           | Design Professional |
|-------------|---------------------|-----------|------------------|-------------|-----------------|---------------------|
| 3           | 8:10 p.m.           | 100       | Jericho Turnpike | Sign        | 100 Jericho LLC | Dezant Signs Inc.   |



100 Jericho Turnpike (Aerial View)





| Case<br>No. | Approximate<br>Time | Address # | Street        | Description | Owner         | Design Professional |
|-------------|---------------------|-----------|---------------|-------------|---------------|---------------------|
| 4           | 8:15 p.m.           | 231       | Crocus Avenue | Solar       | Joseph Loftus | Venture Solar       |



231 Crocus Avenue (Aerial View)















CONDUCTOR SIZING CALCULATION

SPECIFIED CONDUCTOR

Icont (690.(8B)(2)(a)

cale

NO. OF

max (690.(8A))

CIRCUIT DESCRIPTION

AMBIENT TEMPERATURE

AMPACITY @

90°C

CURRENT

CARRYING

COND.

COND. OF USE APPPLIED (690.(8B)(2)(b) calc

#### MODULE SPEC-SHEET

venture solar

67 West St, Brooklyn, NY 11222 www.venturehomecolar -----

| E   | LECTRICAL DATA                               |       | Product Code*: R | ECxxxAA PURE- | R     |
|-----|--|-------|------------------|---------------|-------|
| P   | Power Output - P <sub>MAX</sub> (Wp)         | 400   | 410              | 420           | 430   |
| V   | Vatt Class Sorting - (W)                     | 0/+10 | 0/+10            | 0/+10         | 0/+10 |
| N   | Iominal Power Voltage - V <sub>MPP</sub> (V) | 48.8  | 49.4             | 50.0          | 50.5  |
| J N | Iominal Power Current - I <sub>MPP</sub> (A) | 8.20  | 8.30             | 8.40          | 8.52  |
| v c | Open Circuit Voltage V <sub>oc</sub> (V)     | 58.9  | 59.2             | 59.4          | 59.7  |
| S   | ihort Circuit Current-I <sub>sc</sub> (A)    | 8.73  | 8.81             | 8.89          | 8.97  |
| P   | Power Density (W/ft²)                        | 207   | 212              | 218           | 223   |
| P   | Panel Efficiency (%)                         | 20.7  | 21.2             | 21.8          | 22.3  |
| P   | Power Output - P <sub>MAX</sub> (Wp)         | 305   | 312              | 320           | 327   |
| N   | Iominal Power Voltage - V <sub>MPP</sub> (V) | 46.0  | 46.6             | 47.1          | 47.6  |
|     | Nominal Power Current - I <sub>MPP</sub> (A) | 6.64  | 6.70             | 6.78          | 6.88  |
| z c | Open Circuit Voltage · V <sub>oc</sub> (V)   | 55.5  | 55.8             | 56.0          | 56.3  |
| S   | ihort Circuit Current-I <sub>cr</sub> (A)    | 7.05  | 7.12             | 7.18          | 7.24  |

### venture solar<sup>.</sup>

67 West St, Brooklyn, NY 11222 www.venturehomesolar.com (800) 203-4158 231 Crocus Av, Floral Park, NY 11001 USA Pia Tormen Loftus's Residence Solar Panels: (19) REC420AA PURE-R Modules Inverters: (19) IQ7X-96-2-US Micro-Inverters Solar System DC Size: 7.98KW AC Size: 5.99KW Solar Annual Production : 7,494 .00 KWH Designed By: UNIRAC Date: 11/30/2023 Revision # Approval Date Description



## TOP VIEW OF HOUSE

PHOTO RENDERING G-002.00 Scale: NTS Page 11 of 15

TE OF NEW







DOB Stamps/ Signatures



### venture solar<sup>.</sup>

| 67 West St, Brooklyn, NY 11222<br>www.venturehomesolar.com<br>(800) 203-4158 |                    |                 |  |  |
|--|--------------------|-----------------|--|--|
| 231 Crocus   | Av, Floral Pa      | rk, NY 11001    |  |  |
|  | USA                |                 |  |  |
| Pia T  | ormen Loftus's Ro  | esidence        |  |  |
| Solar Panels:  | 19) REC420AA F     | URE-R Modules   |  |  |
| Inverters: (19   | ) IQ7X-96-2-US     | Micro-Inverters |  |  |
| Solar System I   | DC Size: 7.98KW    | AC Size: 5.99KW |  |  |
| Solar Annu   | al Production : 7, | 494 .00 KWH     |  |  |
| Е  | esigned By: UNII   | RAC             |  |  |
|  | Date: 11/30/202    | 3               |  |  |
| Revision #   | Approval Date      | Description     |  |  |
|  |                    |                 |  |  |
|  |                    |                 |  |  |
|  |                    |                 |  |  |
|  | 1                  |                 |  |  |



# BACK SIDE OF HOUSE



G-004.00 Scale: NTS Page 13 of 15

Laborer Bussett





Patrick Bussett Venture Solar 67 West St, Brooklyn, NY 11222 License # 105278

## LEFT SIDE OF HOUSE





G-005.00 Scale: NTS Page 14 of 15





Patrick Bussett Venture Solar 67 West St, Brooklyn, NY 11222 License # 105278



# **RIGHT SIDE OF HOUSE**



PHOTO RENDERING G-006.00 Scale: NTS

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Laborer Bussett

11/30/2023



Patrick Bussett Venture Solar 67 West St, Brooklyn, NY 11222 License # 105278



| Case<br>No. | Approximate Time | Address # | Street       | Description | Owner             | Design Professional |
|-------------|------------------|-----------|--------------|-------------|-------------------|---------------------|
| 5           | 8:20 p.m.        | 262       | Tulip Avenue | Solar       | Daniel Mclaughlin | Momentum Solar      |



262 Tulip Avenue (Aerial View)



| PLAN KEY            |  |  |  |  |
|---------------------|--|--|--|--|
| COVER PAGE          |  |  |  |  |
| COVER PAGE CONT.    |  |  |  |  |
| PANEL LAYOUT        |  |  |  |  |
| PLOT PLAN           |  |  |  |  |
| ELEVATION 1         |  |  |  |  |
| ELEVATION 2         |  |  |  |  |
| ELEVATION 3         |  |  |  |  |
| ELEVATION-4         |  |  |  |  |
| SUPERIMPOSED PANELS |  |  |  |  |
| SUPERIMPOSED PANELS |  |  |  |  |
| ELECTRICAL          |  |  |  |  |
| EQUIPMENT LABELS    |  |  |  |  |
|                     |  |  |  |  |

| SYSTEM INFORMATION |  |  |  |  |
|--------------------|--|--|--|--|
| MODULE             | HANWHA Q.PEAK DUO BLK ML-G10+ 400          |  |  |  |
| INVERTER           | ENPHASE IQ8PLUS-72-2-US                    |  |  |  |
| RACKING            | ROOFTECH RT-MINI W/UNIRAC 2-RAIL<br>SYSTEM |  |  |  |
| SYSTEM SIZE (DC)   | 5.6 KW                                     |  |  |  |
| LOCATION           | 40.7221738,-73.6988711                     |  |  |  |
|                    |  |  |  |  |

### **GENERAL NOTES:**

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE, NEC 2017 AND ALL LOCAL CODES & ORDINANCES.

AN 18" WIDE (FREE OF SOLAR EQUIPMENT) SHALL BE PROVIDED ON BOTH SIDES OF THE ROOF. NOT FEWER THAN TWO PATHWAYS, ON SEPARATE ROOF PLANES FROM LOWEST ROOF EDGE TO RIDGE AND NOT LESS THAN 36 INCHES (914 MM) WIDE, SHALL BE PROVIDED ON ALL BUILDINGS. NOT FEWER THAN ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF. FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, A PATHWAY NOT LESS THAN 36 INCHES WIDE (914 MM) SHALL BE PROVIDED FROM THE LOWEST ROOF EDGE TO RIDGE ON THE SAME ROOF PLANE AS THE PHOTOVOLTAIC ARRAY, ON AN ADJACENT ROOF PLANE, OR STRADDLING THE SAME AND ADJACENT ROOF PLANES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

WEIGHT OF THE INSTALLED SYSTEM SHALL NOT EXCEED MORE THAN 5-PSF FOR PHOTOVOLTAIC AND NO MORE THAN 6-PSF FOR RESIDENTIAL SOLAR HOT WATER SYSTEMS.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

#### **INVERTER PLACEMENT:**

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

#### **BUILDING REVIEW NOTE:**

TOWN BUILDING PLANS EXAMINER HAS RECEIVED THE ENCLOSED DOCUMENT FOR MINIMUM ACCEPTABLE PLAN SUBMITTAL REQUIREMENTS OF THE TOWN AS SPECIFIED IN THE BUILDING AND/OR RESIDENTIAL CODE OF THE STATE OF NEW YORK. THISREVIEW DOES NOT GUARANTEE COMPLIANCE OF THAT CODE. THAT RESPONSIBILITY IS GUARANTEED UNDER THE SEAL AND SIGNATURE OF THE NEW YORK LICENSED DESIGN PROFESSIONAL OF RECORD. THAT SEAL AND SIGNATURE HAS BEEN INTERPRETED AS AN ATTESTATION THAT, TO THE BEST OF THE LICENSEE'S BELIEF AND INFORMATION, THE WORK IN DOCUMENT IS:

- 1. ACCURATE
- CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF THE 2. SUBMISSION
- 3. CONFORMS WITH REASONABLE STANDARDS OF PRACTICE AND WITH VIEW TO THE SAFEGUARDING OF LIFE, HEALTH, PROPERTY AND PUBLIC WELFARE IS THE RESPONSIBILITY OF THE LICENSEE.

THE RESPONSIBLE LICENSED DESIGN PROFESSIONAL SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING THE INSTALLATION WAS INSPECTED AND CONFORMS TO THE PLANS AND REQUIREMENTS OF THE 2020 NYS BUILDING CODE AND 2020 NYS RESIDENTIAL CODE. THIS INSPECTION AND CERTIFICATION LETTER SHALL BE PERFORMED AFTER INSTALLATIONS ARE COMPLETED AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

**BILL OF MATERIALS** 

14

0

14

36

1

1

1

2

7

NON SH MODULES

SH MODULES

INVERTERS

-FOOT ATTACHMENT W/ RT-MINI

ENPHASE COMBINER BOX

SOLAR AC DISCONNECT

30A OCPD

125A LINE TAPS

171" RAIL

SCHEDULING OF FINAL INSPECTION.



| PROJECT INFORMATION |                  |              |  |  |  |
|---------------------|------------------|--------------|--|--|--|
| INITIAL             | DATE: 12/22/2023 | DESIGNER: NA |  |  |  |
| REV:                | DATE:            | DESIGNER:    |  |  |  |
| REV:                | DATE:            | DESIGNER:    |  |  |  |
| COVER PAGE          |                  |              |  |  |  |

**PV-1** 

- ALL WIND DESIGN CRITERIA ARE FOR LOW SLOPE ROOFS, GABLE AND HIP ROOFS CONSIDERED FROM AN ANGLE OF MIN. 9.5 ° TO MAX. 60° NOT TO EXCEED 30' MEAN ROOF HEIGHT ATTACHED WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER.
- SPAN TABLES ARE DERIVED FROM MECHANICAL LOAD TESTS PERFORMED BY THE MANUFACTURERS INDEPENDENT TESTING AGENCIES ON BEHALF OF THE MANUFACTURER.
- 3. ROOF SEALANTS SHALL CONFORM TO ASTMC920 AND ASTM 6511
- 4. ALL ATTACHMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.



ATTACHMENT SPACING EXCEED MANUFACTURERS SPECIFICATIONS FOR WIND LOADS AS PER ASCE 07-16. RISK CATEGORY II TOPOGRAPHIC EFFECTS B,C, & D AND ROOF WIND ZONES 1,2,& 3. ROOF ZONES 2 & 3 ARE WITHIN 48" OF ANY OUTER EDGE, HIP, RIDGE, OR GUTTER LINE FOR STRUCTURES 30'. 0" OR LESS MEAN ROOF HEIGHT.



ROOF WIND ZONES AS PER IRC R301.2(7) ROOF ZONES 2 & 3 ARE 48" FROM OUTTER ROOF EDGES, RIDGES, HIPS, RAKES, AND GUTTER EDGES FOR STRUCTURES BELOW 30'-0" MEAN ROOF HT.

| TOTAL WEIGHT OF PV MODULES AND RAILS    | 585.9 LBS                |
|---|--------------------------|
| TOTAL NUMBER OF ATTACHMENT POINTS       | 43                       |
| WEIGHT PER ATTACHMENT POINT             | 13.625581395348<br>8 LBS |
| TOTAL SURFACE AREA OF PV MODULES        | 253.96 SQFT              |
| DISTRIBUTED WEIGHT OF PV MODULE ON ROOF | 2.31 LBS./SQFT           |
|   |                          |
















FRONT OF HOUSE



BACK OF HOUSE

# SYSTEM SIZE (DC): 5.6 KW SYSTEM SIZE (AC): 4.06 KVA 14 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 400 (SAFE HARBOR MODULES: 0) 14 INVERTERS: ENPHASE IQ8PLUS-72-2-US PROJECT INFORMATION INITIAL DATE: 12/22/2023 DESIGNER: NA REV: DATE: DESIGNER:

**PV SYSTEM** 

INFORMATION

SUPERIMPOSED PANELS

**PV-7** 



SOUTHEAST



NORTHWEST

## SOLAR PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 3096 HAMILTON BLVD. BUILDING B, S.PLAINFIELD, NJ (732) 902-6224, MOMENTUMSOLAR.COM PROFESSIONAL ENGINEERING OFNEW Ľ PROFESSION ANA A, MANAY, PLE, NT LICENSE # 104480 (752):902-8224 (1050):002-8024 (1050):0 CUSTOMER INFORMATION DANIEL MCLAUGHLIN - MS143060 262 TULIP AVE FLORAL PARK, NY 11001 9175019077 JURISTICTION: NASSAU UTILITY: PSEGLI

momentum

**PV SYSTEM** INFORMATION SYSTEM SIZE (DC ): 5.6 KW SYSTEM SIZE (AC ): 4.06 KVA 14 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 400 (SAFE HARBOR MODULES: 0) 14 INVERTERS: ENPHASE IQ8PLUS-72-2-US

|                     | PROJECT INFORMATION |              |  |  |
|---------------------|---------------------|--------------|--|--|
| INITIAL             | DATE: 12/22/2023    | DESIGNER: NA |  |  |
| REV:                | DATE:               | DESIGNER:    |  |  |
| REV:                | DATE:               | DESIGNER:    |  |  |
| SUPERIMPOSED PANELS |                     |              |  |  |
| PV-7(2)             |                     |              |  |  |





# Q.PEAK DUO BLK ML-G10+ 385-405

ENDURING HIGH PERFORMANCE





#### BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.

#### THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



#### INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



#### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



#### **EXTREME WEATHER RATING**

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



#### A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>2</sup>.

 $^1$  APT test conditions according to IEC / TS 62804-1:2015, method A (–1500 V, 96 h)  $^2$  See data sheet on rear for further information.







Rooftop arrays on residential buildings



#### **MECHANICAL SPECIFICATION**

| Format       | 74.0 in × 41.1 in × 1.26 in (including frame)<br>(1879 mm × 1045 mm × 32 mm)                              |
|--------------|---|
| Weight       | 48.5 lbs (22.0 kg)  |
| Front Cover  | 0.13 in (3.2 mm) thermally pre-stressed glass with<br>anti-reflection technology                          |
| Back Cover   | Composite film  |
| Frame        | Black anodized aluminum   |
| Cell         | 6 × 22 monocrystalline Q.ANTUM solar half cells   |
| Junction Box | 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in<br>(53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes |
| Cable        | 4 mm² Solar cable; (+) ≥49.2 in (1250 mm), (-) ≥49.2 in (1250 mm)   |
| Connector    | Stäubli MC4; IP68   |
|              |   |



#### **ELECTRICAL CHARACTERISTICS**

| PO    | VER CLASS                          |                  |                         | 385               | 390    | 395   | 400   | 405   |
|-------|------------------------------------|------------------|-------------------------|-------------------|--------|-------|-------|-------|
| MIN   | IIMUM PERFORMANCE AT STANDARD TI   | EST CONDITIC     | NS, STC <sup>1</sup> (P | OWER TOLERANCE +5 | W/-0W) |       |       |       |
|       | Power at MPP <sup>1</sup>          | P <sub>MPP</sub> | [W]                     | 385               | 390    | 395   | 400   | 405   |
| c     | Short Circuit Current <sup>1</sup> | I <sub>sc</sub>  | [A]                     | 11.04             | 11.07  | 11.10 | 11.14 | 11.17 |
| unu   | Open Circuit Voltage <sup>1</sup>  | V <sub>oc</sub>  | [V]                     | 45.19             | 45.23  | 45.27 | 45.30 | 45.34 |
| linir | Current at MPP                     | IMPP             | [A]                     | 10.59             | 10.65  | 10.71 | 10.77 | 10.83 |
| 2 -   | Voltage at MPP                     | V <sub>MPP</sub> | [V]                     | 36.36             | 36.62  | 36.88 | 37.13 | 37.39 |
|       | Efficiency1                        | η                | [%]                     | ≥19.6             | ≥19.9  | ≥20.1 | ≥20.4 | ≥20.6 |
| MIN   | IIMUM PERFORMANCE AT NORMAL OPE    | RATING CONI      | DITIONS, NI             | VIOT <sup>2</sup> |        |       |       |       |
|       | Power at MPP                       | P <sub>MPP</sub> | [W]                     | 288.8             | 292.6  | 296.3 | 300.1 | 303.8 |
| Ę     | Short Circuit Current              | I <sub>sc</sub>  | [A]                     | 8.90              | 8.92   | 8.95  | 8.97  | 9.00  |
| - ji  | Open Circuit Voltage               | V <sub>oc</sub>  | [V]                     | 42.62             | 42.65  | 42.69 | 42.72 | 42.76 |
| Ξ     | Current at MPP                     | I <sub>MPP</sub> | [A]                     | 8.35              | 8.41   | 8.46  | 8.51  | 8.57  |
|       | Voltage at MPP                     | V                | [V]                     | 34.59             | 34.81  | 35.03 | 35.25 | 35.46 |

<sup>1</sup>Measurement tolerances P<sub>MPP</sub> ± 3%; I<sub>SC</sub>; V<sub>oc</sub> ± 5% at STC: 1000 W/m<sup>2</sup>, 25 ± 2°C, AM 1.5 according to IEC 60904-3 • <sup>2</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.



PERFORMANCE AT LOW IRRADIANCE

Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

#### **TEMPERATURE COEFFICIENTS**

| Temperature Coefficient of I <sub>sc</sub>  | α | [%/K] | +0.04 | Temperature Coefficient of V <sub>oc</sub> | β    | [%/K] | -0.27            |
|---|---|-------|-------|--|------|-------|------------------|
| Temperature Coefficient of P <sub>MPP</sub> | Ŷ | [%/K] | -0.34 | Nominal Module Operating Temperature       | NMOT | [°F]  | 109±5.4 (43±3°C) |

#### **PROPERTIES FOR SYSTEM DESIGN**

| Maximum System Voltage $V_{\mbox{\tiny SYS}}$ | [V]                    | 1000 (IEC)/1000 (UL)       | PV module classification             | Class II            |
|---|------------------------|----------------------------|--------------------------------------|---------------------|
| Maximum Series Fuse Rating                    | [A DC]                 | 20                         | Fire Rating based on ANSI / UL 61730 | TYPE 2              |
| Max. Design Load, Push/Pull <sup>3</sup>      | [lbs/ft <sup>2</sup> ] | 75 (3600 Pa)/55 (2660 Pa)  | Permitted Module Temperature         | -40°F up to +185°F  |
| Max. Test Load, Push/Pull <sup>3</sup>        | [lbs/ft <sup>2</sup> ] | 113 (5400 Pa)/84 (4000 Pa) | on Continuous Duty                   | (-40°C up to +85°C) |
| 2.O In stallation Manual                      |                        |                            |                                      |                     |

<sup>3</sup> See Installation Manual

#### **QUALIFICATIONS AND CERTIFICATES**

UL 61730, CE-compliant, Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells). QCPV Certification ongoing.







Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

#### Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

| Case<br>No. | Approximate<br>Time | Address # | Street           | Description | Owner              | Design Professional |
|-------------|---------------------|-----------|------------------|-------------|--------------------|---------------------|
| 6           | 8:25 p.m.           | 296       | Carnation Avenue | Solar       | Andre<br>Ramsamugh | Empower Solar       |



296 Carnation Avenue (Aerial View)















|   | 1 | 2                   | 3           | 4  | 5  | 6  | 7   | 8  | 9   | 10  | 11   | 12           | 13              |  |
|---|---|---------------------|-------------|--|--|--|---|--|---|---|--|--------------|-----------------|--|
|   |   |                     |             |  |  |  |   | OWER MODULE  | S<br>KING   |   |  |              |                 | EMPOWER<br><b>SOLAR</b><br>4589 AUSTIN BLVD<br>ISLAND PARK, NY 11558<br>TEL: 516-837-3459<br>FAX: 516-706-1789   |
| н |   | SHINGLES<br>RAFTERS |             |  |  |  |   |  |   | _   | W W W. e m power-solar.com<br>The INFORMATION DISCLOSED HEREIN IS THE SOLI<br>H PROPERTY OF ENFORMENCES, LIC UNAUTHOREE<br>MATERIAL DISTICTLY PROHISTED WITION<br>PRIOR SPECIFIC WRITTEN PERMISSION<br>PROFESSIONAL SEAL |              |                 |  |
| G |   |                     |             |  |  |  |   |  |   |   |  |              |                 | G UN YORK SACHER   |
| F |   |                     |             |  |  | TYPIC.<br>N  | AL ROOF SECTI<br>OT TO SCALE  | <u>on</u>  |   |   |  |              | _               | F OF OFFE  |
| E |   | S                   | MODULE POWE | R (Wdc) QTY<br>21  | MODE<br>SPR-M-SE<br>SPR-A-SE   | SUNP<br>EL # L<br>RIES-AC<br>RIES-AC   | OWER PANEL S           ENGTH         Wi           73.7"         4           72.2"         4 | DTH         DEPTI           0.6"         1.57"           0.0"         1.57"    | H WEIGHT<br>48.0 LB<br>46.5 LB  | TABLE S<br>PORTRA                                 | <b>6-1.1:</b> MAX. ATT/<br>IT: 5'-4"   | ACHMENT SPAC | CING<br>: 8'-0" | ε  |
| D |   |                     |             | NOTES:<br>1. TOTAL S<br>2. RACKING                                 | SPR-E/X-SI   | ER: 8.93 kW  | A   | 1.2"   1.81"<br>ODE-COMPLIAN   | T INSTALLATION  | I   |  |              |                 | D REV: DESCRIPTION: DATE<br>PROJECT NAME:<br>Andre Ramsamugh   |
| с |   |                     |             | MANU.<br>3. ATTACHM<br>AND/C<br>4. ALL ATTA<br>CODE<br>5. INSTALLA | AL<br>ENTS TO BE SE<br>IR 5/16" STAINLE<br>CHMENTS TO F<br>REQUIREMENT<br>TION TYPICALLY       | CURED TO ROC<br>SS STEEL LAG<br>ROOF, MOUNTI<br>S<br>MAINTAINS 7/                  | DF ASSEMBLY L<br>BOLTS SPACEI<br>NG BRACKETS<br>B INCH SPACING                              | JSING 5 mm STA<br>D ACCORDING T<br>& HARDWARE                                  | INLESS STEEL S<br>O <b>TABLE S-1.1</b><br>MEET OR EXCE<br>DULES                   | SCREWS<br>ED NYS                                  |  |              |                 | c<br>PROJECT LOCATION:<br>296 Carnation Ave, Floral<br>Park, NY 11001  |
| в |   |                     |             | 6. SIZES OF<br>ARE E<br>BOTH<br>TIME (<br>7. THIS DOC<br>SNOW      | STRUCTURAL M<br>ASED ON OBSI<br>IN ADDITION TO<br>F CONSTRUCT<br>CUMENT CERTIF<br>, UNBALANCED | IEMBERS THAT<br>ERVATIONS OF<br>D KNOWLEDGE<br>ION<br>IES THAT THE<br>SNOW, LIVE A | WERE NOT AC<br>ACCESSIBLE I<br>OF STANDARI<br>ROOF STRUC<br>ND DEAD LOAD                    | CESSIBLE FOR<br>MEMBERS, CON<br>D CONSTRUCTI<br>FURE HAS BEE                   | DIRECT MEASUR<br>STRUCTION DEI<br>ON PRACTICES<br>N CHECKED FOI<br>SCE 7-10 CHAPT | REMENT<br>PTH OR<br>AT THE<br>R WIND,<br>TER 30 - |  |              |                 | PROJECT#:         PROMINE           PROJ. PHASE:         PERMIN           DATE:         10/19/2023           DESIGNED BY:         ET           CHECKED BY:         GS           SCALE:         NTS           TITLE:         ST |
| A |   |                     |             | WIND<br>2020 F<br>ANY A<br>8. THIS ROO<br>9. REFER TC              | LOADS - COMP<br>ESIDENTIAL CC<br>DDITIONAL ROC<br>F STRUCTURE /<br>STRUCTURAL                  | ONENTS AND (<br>DE OF NEW YC<br>F ALTERATION<br>AS SHOWN IS A<br>LETTER FOR SI     | CLADDING (C&C<br>DRK STATE. THI<br>S AFTER THE D<br>DEQUATE TO S<br>TE SPECIFIC AN          | C) AND FOR CO<br>S CERTIFICATION<br>ESCRIBED INST<br>UPPORT THE PIND ROOF SURF | NFORMANCE WI<br>IN DOES NOT AF<br>ALLATION<br>ROPOSED LOADS<br>ACE DATA           | ITH THE<br>PPLY TO<br>S                           |  |              |                 | A SHEET: S-02  |
|   | 1 | 2                   | 3           | 4  | 5  | 6  | 7   | 8  | 9   | 10  | 11   | 12           | 13              | -  |









## SunPower<sup>®</sup> InvisiMount<sup>™</sup> | Residential Mounting System

### Simple and Fast Installation

- Integrated module-to-rail grounding
- Pre-assembled mid and end clamps
- · Levitating mid clamp for easy placement
- Mid clamp width facilitates consistent, even module spacing
- UL 2703 Listed integrated grounding

#### Flexible Design

- Addresses nearly all sloped residential roofs
- Design in landscape and portrait with up to 8' rail span
- · Pre-drilled rails and rail splice
- Rails enable easy obstacle management

#### **Customer-Preferred Aesthetics**

- #1 module and #1 mounting aesthetics
- Best-in-class system aesthetics
- Premium, low-profile design
- Black anodized components
- Hidden mid clamps and new capped, flush end clamps

#### Part of Superior System

- Built for use with SunPower DC and AC modules
- · Best-in-class system reliability and aesthetics
- New optional rooftop transition flashing, railmounted J-box, and wire management rail clips
- Combine with SunPower modules and SunPower EnergyLink<sup>®</sup> monitoring app





#### **Elegant Simplicity**

SunPower® InvisiMount™ is a SunPower-designed rail-based mounting system. The InvisiMount system addresses residential sloped roofs and combines faster installation time, design flexibility, and superior aesthetics. The InvisiMount product was specifically envisioned and engineered to pair with SunPower modules. The resulting system-level approach amplifies the aesthetic and installation benefits—for homeowners and for installers.

#### sunpower.com



# SUNPOWER<sup>®</sup>



# SUNPOWER®



## 425-410 W Residential Black AC Module

## SunPower<sup>®</sup> Maxeon<sup>®</sup> Technology

Built specifically for use with the SunPower Equinox<sup>®</sup> system, the only fully integrated solution designed, engineered, and warranted by one company.



## Highest Power Density Available

The patented, solid-copper foundation Maxeon Gen 6 cell is over 5% larger than prior generations, delivering the highest-efficiency all-black AC solar module available.<sup>1</sup>





#### **Highest Lifetime Energy and Savings**

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.<sup>2</sup>





#### Best Reliability, Best Warranty

With more than 42.6 million and 15 GW of modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.

## Part of the SunPower Equinox<sup>®</sup> Solar System

- Seamless aesthetics
- Compatible with mySunPower monitoring



## Factory-integrated Microinverter

- Highest-power integrated AC module in solar
- Engineered and calibrated by SunPower for SunPower AC modules



## M425-BLK | M415-BLK | M410-BLK SunPower Residential Black AC Module

|   | AC Electrical Data                   |                                      |
|---|--------------------------------------|--------------------------------------|
| Inverter Model: Type H (Enphase IQ7HS)                | @240 VAC                             | @208 VAC                             |
| Max. Continuous Output Power (VA)                     | 384                                  | 369                                  |
| Nom. (L–L) Voltage/Range <sup>3</sup> (V)             | 240 / 211-264                        | 208 / 183-229                        |
| Max. Continuous Output Current (A)                    | 1.60                                 | 1.77                                 |
| Max. Units per 20 A (L–L) Branch Circuit <sup>4</sup> | 10                                   | 9                                    |
| CEC Weighted Efficiency                               | 97.0%                                | 96.5%                                |
| Nom. Frequency  | 60 Hz                                | 60 Hz                                |
| Extended Frequency Range                              | 47–68 Hz                             | 47-68 Hz                             |
| AC Short Circuit Fault Current Over 3 Cycles          | 4.82 A                               | 4.82 A                               |
| Overvoltage Class AC Port                             | 111                                  | III                                  |
| AC Port Backfeed Current                              | 18 mA                                | 18 mA                                |
| Power Factor Setting                                  | 1.0                                  | 1.0                                  |
| Power Factor (adjustable)                             | 0.85 (inductive) / 0.85 (capacitive) | 0.85 (inductive) / 0.85 (capacitive) |

|                                  | DC Power Data                                     |                   |                   |  |  |  |
|----------------------------------|---|-------------------|-------------------|--|--|--|
|                                  | SPR-M425-BLK-H-AC                                 | SPR-M415-BLK-H-AC | SPR-M410-BLK-H-AC |  |  |  |
| Nom. Power <sup>6</sup> (Pnom) W | 425   | 415               | 410               |  |  |  |
| Power Tolerance                  | +5/-0%  | +5/-0%            | +5/-0%            |  |  |  |
| Module Efficiency                | 22.0%   | 21.5%             | 21.2%             |  |  |  |
| Temp. Coef. (Power)              | -0.29% / °C                                       | –0.29% / °C       | –0.29% / °C       |  |  |  |
| Shade Tolerance                  | Integrated module-level max. power point tracking |                   |                   |  |  |  |

|                             | Tested Operating Conditions   |
|-----------------------------|---|
| Operating Temp.             | -40° F to +185° F (-40° C to +85° C)  |
| Max. Ambient Temp.          | 122° F (50° C)  |
| Max. Test Load <sup>8</sup> | Wind: 125 psf, 6000 Pa, 611 kg/m² back<br>Snow: 187 psf, 9000 Pa, 917 kg/m² front |
| Max. Design Load            | Wind: 75 psf, 3600 Pa, 367 kg/m² back<br>Snow: 125 psf, 5400 Pa, 550 kg/m² front  |
| Impact Resistance           | 1 inch (25 mm) diameter hail at 52 mph (23 m/s)                                   |

|                                    | Mechanical Data   |
|------------------------------------|---|
| Solar Cells                        | 66 Maxeon Gen 6   |
| Front Glass                        | High-transmission tempered glass with anti-reflective coating |
| Environmental Rating               | Outdoor rated   |
| Frame                              | Class 1 black anodized (highest AAMA rating)                  |
| Weight                             | 48 lbs (21.8 kg)  |
| Recommended Max.<br>Module Spacing | 1.3 in. (33 mm)   |

1 Based on datasheet review of websites of top 20 manufacturers per IHS, as of July 2021.

- 2 Maxeon 435 W, 22.5% efficient, compared to a Conventional Panel on same-sized arrays (300 W, 19% efficient, approx. 1.6 m<sup>2</sup>), 7.9% more energy per watt (based on PVSyst pan files for avg. US climate), 0.5%/yr slower degradation rate (Jordan, et. al. "Robust PV Degradation Methodology and Application."PVSC 2018).
- 3 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of June 2021.
- 4 Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.
- 5 Factory set to IEEE 1547a-2014 default settings. CA Rule 21 default settings profile set during commissioning.
- 6 Standard Test Conditions (1000 W/m<sup>2</sup> irradiance, AM 1.5, 25°C). All DC voltage is fully contained within the module. 7 UL Listed as PVRSE and conforms with NEC 2014 and NEC 2017 690.12; and C22.1-2015 Rule 64-218 Rapid
- Shutdown of PV Systems, for AC and DC conductors; when installed according to manufacturer's instructions.
- 8 Please read the safety and installation instructions for more information regarding load ratings and mounting configurations.

See www.sunpower.com/company for more reference information.

For more details, see extended datasheet: www.sunpower.com/solar-resources. Specifications included in this datasheet are subject to change without notice.

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| Wa                                  | rranties, Certifications, and Compliance  |
|-------------------------------------|---|
| Warranties                          | <ul> <li>25-year limited power warranty</li> <li>25-year limited product warranty</li> </ul>  |
| Certifications<br>and<br>Compliance | <ul> <li>UL 1741 / IEEE-1547</li> <li>UL 1741 AC Module</li> <li>UL 61730 (Type 2 fire rated)</li> <li>UL 62109-1 / IEC 62109-2</li> <li>FCC Part 15 Class B</li> <li>ICES-0003 Class B</li> <li>CAN/CSA-C22.2 NO. 107.1-01</li> <li>CA Rule 21 (UL 1741 SA)<sup>5</sup><br/>(includes Volt/Var and Reactive Power Priority)</li> <li>UL Listed PV Rapid Shutdown Equipment<sup>7</sup></li> <li>Enables installation in accordance with:</li> <li>NEC 690.6 (AC module)</li> <li>NEC 690.12 Rapid Shutdown (inside and outside the array)</li> <li>NEC 690.15 AC Connectors, 690.33(A)–(E)(1)</li> <li>When used with AC module Q Cables and accessories (UL 6703 and UL 2238)<sup>7</sup></li> <li>Rated for load break disconnect</li> </ul> |
| PID Test                            | 1000 V: IEC 62804   |

|                    | Packaging Configuration  |  |  |  |  |  |
|--------------------|--------------------------|--|--|--|--|--|
| Modules per pallet |                          | 25   |  |  |  |  |
|                    | Packaging box dimensions | 75.4 × 42.2 × 48.0 in. (1915 × 1072 × 1220 mm) |  |  |  |  |
|                    | Pallet gross weight      | 1300 lb (590 kg)                               |  |  |  |  |
|                    | Pallets per container    | 32   |  |  |  |  |
|                    | Net weight per container | 18,880 kg                                      |  |  |  |  |





(A) Long Side: 1.3 in (32 mm) Short Side: 0.9 in (24 mm)

AC MODULE GBD SUPPORT UTURY INTERACTIVE PV RARD SHUTDOWN EQUIPMENT LISTED E478330 Module Fire Performance: Type 2

544400 RevA January 2022



| Case<br>No. | Approximate<br>Time | Address # | Street            | Description                       | Owner        | Design Professional |
|-------------|---------------------|-----------|-------------------|-----------------------------------|--------------|---------------------|
| 7           | 8:30 p.m.           | 347       | Plainfield Avenue | 2 <sup>nd</sup> Floor<br>Addition | Arthur Walsh | Demetris Demetriou  |



## 347 Plainfield Avenue (Aerial View)



# 347 PLAINFIELD AVENUE

# **RIGHT SIDE & FRONT VIEWS**



FRONT (N-W) VIEW



# 347 PLAINFIELD AVENUE

# ADJACENT NEIGHBORS





AVE 96:20 2.5thme Dickeli 19:0 :0: 86°-20 17:0 0 Torg PLAINFIE 5:95 57. (Spruce St.) CHERRY Lot Nos. REFER TO Amended Map of BIL 16, Map of Floral Part Ville GUARANTEED TO The Infer County Title Guaranty + Mortgage Co and The Federal Housing Administrator. SURVEYED Sept 21 1937 WILLIAM H. PARRY, INC. CIVIL ENGINEERS, CITY SURVEYORS INC. 161-10 JAMAICA AVENUE N. Y. S. S. JAMAICA, N. Y. C. Floral Park N. B. 211. 28361 NASSAU COUNTY, N.Y.

| TABL   | E R301    | 1.2(1) (   | CLIMATE            | AND      | GEOGR        | APHIC      | DESIG                | N CRIT     | ERA         |         |       |         |
|--------|-----------|------------|--------------------|----------|--------------|------------|----------------------|------------|-------------|---------|-------|---------|
| GROUND |           | WND DESIGN |                    | SEISMIC  | SUBJECT TO D | AMAGE FROM |                      | WNTER      | ICE BARRIER | FLOOD   | AIR   | MEAN    |
| LOAD   | SPEED/MPH | SPEED/MPH  | WND-BORN<br>DEBRIS | CATEGORY | WEATHERING   | FROST      | TERMITE              | TEMP.      | REQUIRED    | HAZARDS | INDEX | TEMPERA |
|        |           |            | ZONE               |          | - ALLA       | DEPTH      |                      |            |             |         |       |         |
| 20 psf | 120 mph   | NO         | NO                 | В        | SEVERE       | 3'-0"      | MODERATE<br>TO HEAVY | NASSAU: 13 | YES         | ZONE X  | 496   | 52.9    |

| TABL   | .E R301   | 1.2(1) (    | CLIMATE             | AND .    | GEOGR/       | APHIC      | DESIG    | V CRITE | ERA         |         |       |            |
|--------|-----------|-------------|---------------------|----------|--------------|------------|----------|---------|-------------|---------|-------|------------|
| GROUND |           | WIND DESIGN |                     | SEISMIC  | SUBJECT TO D | AMAGE FROM |          | WNTER   | ICE BARRIER | FLOOD   | AIR   | MEAN       |
| LOAD   | SPEED/MPH | SPEED/MPH   | WIND-BORN<br>DEBRIS | CATEGORY | WEATHERING   | FROST      | TERMITE  | TEMP.   | REQUIRED    | HAZARDS | INDEX | TEMPERATUR |
|        |           |             | ZONE                |          |              | DEPTH      |          |         |             |         |       |            |
| 20 psf | 120 mph   | NO          | NO                  | B        | SEVERE       | 3'-0"      | MODERATE | 1       |             | ZONE X  |       |            |

## 18. CONTRACTOR TO COORDINATE WITH SIMPSON STRONG-TIE COMPANY, INC 1-800-999-5099 TO PROVIDE ALL CONSTRUCTION CONNECTORS, HANGERS AND BRACING AS REQUIRED FOR WIND RESISTANCE CONNECTIONS TO PROVIDE CONTINUOUS LOAD PATH FROM THE ROOF TO THE FOUNDATION.

16. CONTRACTOR IS RESPONSIBLE FOR ALL FABRICATED MATERIALS FOR ACCURACY, FIT AND INSTALLATION 17. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE FOR ALL FABRICATIONS AND FABRICATED MATERIALS.

15. THE ARCHITECTS CERTIFICATION OF THE PLANS AND LIABILITY WITH THE WORK IS LIMITED TO THE PLANS CONFORMITY TO THE NEW YORK STATE UNIFORM FIRE AND PREVENTION AND BUILDING CODE.

14. CONTRACTOR IS RESPONSIBLE TO ERECT AND MAINTAIN REASONABLE SAFE GUARDS AND PROTECTION OF THE SITE. THIS WILL INCLUDE FENCING, DANGER SIGNS AND OTHER WARNINGS.

13. CONTRACTOR IS RESPONSIBLE TO LEAVE THE SITE AND SURROUNDING AREAS BROOM SWEPT CLEAN AT THE END OF EACH WORK DAY AND PREVENT THE ACCUMULATION OF WASTE AND DEBRS ON THE CONSTRUCTION SITE.

11. CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY INSPECTIONS TO OBTAIN CERTIFICATES OF OCCUPANCY/COMPLETION. 12. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS, TECHNIQUES, SEQUENCES AND FOR COORDINATING ALL TRADES TO COMPLETE WORK.

10. CONTRACTOR TO VERIFY WITH OWNER AND UTILITY PROVIDERS THE LOCATIONS OF ANY UNDERGROUND UTILITIES, TANKS, PIPES OR LINES AND PROVIDE ADEQUATE PROTECTION AS NECESSARY.

8. LICENSED ELECTRICIAN TO BE USED FOR ALL ELECTRICAL WORK. 9. LICENSED PLUMBER TO BE USED FOR ALL PLUMBING WORK.

7. NO PLANS OR DRAWINGS ARE TO BE SCALED. ONLY FIGURED DIMENSIONS ARE TO BE USED.

5. ONLY DRAWINGS APPROVED BY THE LOCAL MUNICIPALITY IS TO BE USED FOR CONSTRUCTION PURPOSES. 6. ANY DISCREPANCIES IN THE PLANS, SPECIFICATIONS, DIMENSIONS, SIZING ETC. SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

4. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.

3. THE DRAWING AND NOTES ARE INTENDED TO BE COMPLETE. SHOULD ANYTHING BE OWITTED FROM THE DRAWINGS INCESSARY TO THE FROPER CONSTRUCTION OF THE WORK, HEREIN DESCRIBED, IT SHALL BE THE OUTY OF THE CONTRACTOR TO MORTRY THE ARCHITET.

GENERAL NOTES: 1. ALL WORK SHALL CONFORM TO THE NEW YORK STATE, LOCAL AND ALL APPLICABLE CODES. 2. IT IS THE INTENTION OF THESE DRAWINGS TO PROVIDE FOR THE CONSTRUCTION OF A RESIDENCE INCLUDING EVERY ITEM AS SHOWN OR REASONABLY IMPLIED OR REQUIRED TO COMPLETE ALL WORK.

21. ALL EXTERIOR WINDOWS TO BE ANDERSON BRAND OR EQUIVALENT, INSTALLED AS PER MANUFACTURERS SPECIFICATIONS. 22. ALL STEEL INDICATED ON PLANS SHALL BE A36 COATED WITH ONE SHOP COAT OF RUST INHIBITING PAINT.

20. CONTRACTOR TO PROVIDE NECESSARY SMOKE/FIRE/HEAT/CO2 DETECTORS AS INDICATED ON THE PLANS AND AS REQUIRED BY STATE AND LOCAL CODES.

19. CONTRACTOR TO PROVIDE FINAL SITE GRADE IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODES. SITE SHALL BE GRADED TO DIVERT WATER AWAY FROM STRUCTURE.

17. ALL PIPES TO BE INSULATED FROM FREEZING AND CONDENSATION. 18. CONTRACTOR TO VENT ALL EQUIPMENT AS PER MANUFACTURERS SPECIFICATIONS AND BUILDING CODE REQUIREMENTS. ALL QUILETS TO BE LOCATED AS SUCH AS TO PREVENT GASES/ODORS FROM ENTERING THE BUILDING OF FOLUING NEIGHBORING PROPERTIES.

16. PLUMBER TO OBTAIN SEPARATE PLUMBING PERMIT.

15. ALL PLUMBING FIXTURES SHALL BE INDIVIDUALLY TRAPPED AND VENTED AS REQUIRED BY THE RESIDENTIAL CODE OF NEW YORK STATE. CAST IRON PIPE SHALL CONFORM WITH THE LOCAL CODE REQUIREMENTS WITH THE APPROVED JOINTS, PIPE SUPPORTS AND CLEANOUTS.

14. AT LEAST ONE SINGLE STATION SMOKE DETECTING ALARM DEVISE INSTALLED IN CONFORMITY WITH SECTION R317 & NIPA 72 SHALL BE PROVIDED ADJACENT TO AND IN ALL SLEEPING SPACES AND ON EACH ADDITIONAL FLOOR LEVEL AND SHALL BE LOCATED ON OR NEAR THE CELING.

13. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LAWS AND ORDINANCES OF THE NATIONAL ELECTRIC CODE, THE LONG ISLAND POWER AUTHORITY, LOCAL MUNICIPALITES AND THE REQUIREMENTS OF THE NEW YORK BOARD FIRE UNDERWRITERS (OR EQUIVALENT AUTHORITY.)

11. STRUCTURAL STEEL TO BE ASTM A36. DETAILED, FABRICATED AND ERECTED PER AISC. 12. AT ALL FLUSH STEEL BEAM LOCATIONS, POSITION STEEL BEAM WITH SUFFICIENT CLEARANCE BETWEEN TOP AND BOTTOM STEEL AND ADJOINING WOOD FRAMING TO ALLOW FOR WOOD SHRINKAGE.

10. PROVIDE COMBUSTION AIR VENTS AS PER ENERGY CONVERSATION CONSTRUCTION CODE OF NEW YORK STATE.

9. ALL FIREBOXES SHALL BE LINED WITH FIREBRICKS AS PER SECTION R1003.5 & ASTM C27 OR C1261 & C199 FOR MORTAR.

7. ALL GUTTERS TO BE SEAMLESS ALUMINUM WITH BAKED ENAMEL FINISH. 8. FLUE LININGS SHALL BE OF TERRA COTTA, EXTENDING FULL HEIGHT THROUGH THE CHIMNEY CAP (PER SECTION R1001.8, 1001.9, 1001.10, 1001.11 & 1001.12)

6. STORM WATER FROM ROOF TO BE DISPOSED OF IN A PROPER MANNER AS REQUIRED BY COUNTY HEALTH DEPARTMENT, LOCAL BUILDING DEPARTMENT AND ALL OTHER AGENCIES HAVING JURISDICTION.

 ALL WALLS AND CEILING SHALL BE FINISHED WITH 1/2" MIN. GYPSUM WALLBOARD EXCEPT AS INDICATED OTHERWISE ON DRAWINGS. USE WATERPROOF TYPE IN AREAS OF MOISTURE. 5. ALL CLOSETS TO RECEIVE VINYL COATED WIRE SHELVES AND HANG RODS. TYPICAL UNLESS OTHERWISE NOTED.

3. GLAZING IN DOORS, SHOWER/TUB ENCLOSURES, SHOWER/TUB DOORS & ADJOINING DOORS SHALL BE SO SIZED, CONSTRUCTED, ITECATED OR COMBINED WITH OTHER MATERIALS AS TO EFFECTIVELY MININZE THE POSSBILITY OF MUMRY TO PERSONS IN THE EVENT THE GLAZING IS ACKED OR BROKEN. TEMPORED/SAFTEY GLASS SHALL BE USED IN ALL MINDOWS AND DOORS AS PER SECTION R306 GLAZING.

2. INSULATION IN CATHEDRAL CEILINGS SHALL BE AS INDICATED ON DRAWINGS. CARE SHALL BE TAKEN TO MAINTAIN THE FREE PASSAGE OF AIR BETWEEN INSULATION AND ROOF DECK.

CONSTRUCTION NOTES: 1. NOLATON IN THE CYTEROR MULS & CELING OF ALL HEATED SPACES SHALL BE INBERGLASS BATT. SHARAN BUDGING MODERNE THE AND ALL HEALTH HEATED SPECT AND ALL MADE AND MISTALED IN ACCORDANCE WITH THE N.Y.S. DERRY CODE.

#### ZONING ANALYSIS

EXISTING

19'-8"

3'-2"

8'-11"

40'-4"

2 Stories 26'-5"

25.7% =1.028 sq.ft

SECOND FLOOR DORMER ADDITION &

MAINTAIN OF EXISTING 2ND FLOOR BEDROOM

REQUIRED

20'

10

25'

2<sup>1</sup>/<sub>2</sub> Stories or 35

30%=1,200 sq.ft.

SCOPE OF WORK:

PROPOSED

ADDITION

DORMER @ 23'-10

PROPOSED

NO CHANGE

NO CHANGE

NO CHANGE

PROPOSED

NO CHANGE

DORMER @ 25'-1"

ZONE: R-1 LOT AREA: 4,000 sq.ft

SETBACKS

FRONT

LEFT SIDE

RIGHT SIDE

REAR

HEIGHT

MAX MAI

BUILDING

COVERAGE

ENERGY CODE: TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NYS ENERGY CODE.

ALL SPECIALTY WORK, SUCH AS PLUMBING . ELECTRICAL. MECHANICAL-HVAC & FIRE SPRINKLERS TO BE PERFORMED BY LICENSED CONTRACTORS AND OBTAIN REQUIRED PERMITS AS REQUIRED

UNDERGROUND UTILITIES AND OBTAIN WRITTEN CLEARANCE AND INDICATION FROM EACH OF THE PRESENT UTILITIES AT THE SITE . PERMITS REQUIRED:

EXCAVATION NOTE: GC. TO CALL 1(800)272-4480/811, CBYD.COM PRIOR TO ANY EXCAVATION. TO RECEIVE A LIST OF ALL

COORDINATE ALL INSPECTIONS WITH THE LOCAL BUILDING DEPARTMENT

CODE COMPLIANCE: TO THE BEST OF THE KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGMENT OF THE UNDERSIGNED. THE PLANS AND SPECIFICATIONS DEPICTED ON THESE DRAWINGS ARE IN COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THE 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND ALL SUPPLEMENTS





DATE

1-8-2024

-11-2024

DEMARKS

A.R.B. SUBMISSION

A.R.B. SUBMISSION (revised)

SITE PLAN

SCALE:3/16"=1'-0"

SITE PLAN INFORMATION TAKEN FROM SURVEY DRAWN by LIC. SURVEYOR WILLIAM H. PARRY, DATED: 9-21-1937

#### WALL SCHEDULE

EXISTING TO REMAIN
EXISTING TO BE DEMOLISHED
NEW FRAME WALL
LINES OF STRUCTURE ABOVE

LEGEND HARD WIRED C CARBON MONOXIDE DETECTOR SMORE DETECTORS -INTERCONNECTED HARD WIRED ABATTERY BACK UP V.I.F. VERIFY IN FIELD

CENTER LINE



WILL IN CLUE WILL

FRONT (N-W) ELEVATION SCALE



RIGHT SIDE (S-W) ELEVATION

LEFT SIDE (N-E) ELEVATION SCALE; T-1.0"

| DATE      | REMARKS                     |  |  |  |  |
|-----------|-----------------------------|--|--|--|--|
| 1-8-2024  | A.R.B. SUBMISSION           |  |  |  |  |
| 1-11-2024 | A.R.B. SUBMISSION (revised) |  |  |  |  |
|           |                             |  |  |  |  |
|           |                             |  |  |  |  |
|           |                             |  |  |  |  |
|           |                             |  |  |  |  |
|           |                             |  |  |  |  |
|           |                             |  |  |  |  |
|           |                             |  |  |  |  |

![](_page_63_Picture_11.jpeg)

![](_page_63_Picture_12.jpeg)

![](_page_63_Picture_13.jpeg)

![](_page_63_Picture_14.jpeg)

DATE: 01-08-2024

WINDOWS : WOOD w ALUM EXTERIOR CLADDING

DOUBLE GLAZED, LOW "E"

BY "ANDERSEN" OR EQUAL

color:DARK BRONZE

![](_page_64_Picture_5.jpeg)

<u>ROOFING</u>:"GRAND CANYON " (wood shake look)

ASPHALT SHINGLES by GAF

color: STONEWOOD

![](_page_64_Picture_9.jpeg)

FASCIA by "ANDERSEN" color: DARK BRONZE ALUMINUM

**BRICK VENEER SIDING** 

# **Exterior MATERIAL**

## 347 PLAINFIELD AVENUE

| Case<br>No. | Approximate<br>Time | Address # | Street      | Description | Owner                        | Design Professional |
|-------------|---------------------|-----------|-------------|-------------|------------------------------|---------------------|
| 8           | 8:35 p.m.           | 24        | Fern Street | Renovation  | Robert and<br>Shanthy Hughes | DRV Architect, PC   |

![](_page_65_Picture_1.jpeg)

24 Fern Street (Aerial View)

![](_page_66_Picture_1.jpeg)

# HUGHES RESIDENCE

## RESIDENTIAL RENOVATION

### 24 FERN STREET FLORAL PARK, NEW YORK PROJECT NO. 2337

![](_page_67_Figure_3.jpeg)

I SITE PLAN ARB-000 SCALE: 1" = 10'-0"

SITE INFORMATION: SITE PLAN BASED ON A SURVEY BY: LALSA LAND SURVEYING, PLLC DATED: SEPTEMBER 13, 2023 SECTION: BLOCK: LOT: ZONE: 32 259 16 RESIDENCE "R-I", VILLAGE OF FLORAL PARK LOT AREA: 5,732.75 SF

| E  | BUILDING SQUAR  | E FOOTAGES  |  |
|--|---|---|--|
| FLOORS   | EXISTING  | PROPOSED CHANGE   | PROPOSED TOTAL   |
| FIRST FLOOR  | 965 SF  | 73 SF   | 1,038 SF   |
| SECOND FLOOR   | 812 SF  | 183 SF  | 995 SF TOTAL<br>22 SF OF CANTILEVER  |
| TOTAL FLOOR AREA   | 1,777 SF  | 256 SF  | 2,033 SF   |
|  |   |   |  |
| OTHER STRUCTURES   |   |   |  |
| DETACHED GARAGE *  | 224 SF  | 0 SF  | 224 SF   |
| PORTICO  | 0 SF  | 82 SF   | 82 SF  |
| TOTAL BUILDING AREA<br>(BUILDING COVERAGE)                                       | 965 SF  | 177 SF  | 1,142 SF   |
|  |   |   |  |
|  |   |   |  |
|  | ZONING REQU   | IREMENTS  |  |
| ITEM   | ALLOWABLE   | EXISTING  | PROPOSED WORK  |
| MIN, LOT AREA  | 4,000 SF  | 5,732.75 SF   | NO CHANGE  |
| MIN, LOT FRONTAGE  | 40.00 <sup>i</sup>  | 50.00'  | NO CHANGE  |
| MIN. LOT DEPTH   | 100.00'   | 114.19'   | NO CHANGE  |
| MAX, ROOF HT, FROM AVG<br>CURB LEVEL   | 35.00 <sup>4</sup><br>(2-1/2 STORY)   | 29.00' (±)<br>(2-1/2 STORY)   | 26.88' (±)<br>(2-1/2 STORY)  |
| MAX. BUILDING COVERAGE *   | 1,719.82 SF<br>(30.00%)   | 965 SF<br>(16.83%)  | 1,142 SF<br>(19.92%)   |
| MIN. FRONT YARD SETBACK  | 20.00'  | 25.00'  | FIRST FLOOR: NO CHANG<br>PROPOSED SECOND<br>FLOOR CANTILEVER: 23.5<br>PROPOSED PORTICO: 21.5 |
| MIN. COMBINED SIDE YARD  | 15.004  | 24.50   | NO CHANGE  |
| MIN, SIDE YARD   | 5.00'   | 4.50'   | FIRST FLOOR: NO CHANGE<br>PROPOSED SECOND FLOOR: 5.  |
| min. Rear yard setback $*$   | 25.00'  | 43.98'  | NO CHANGE  |
| MIN, HABITABLE FLOOR AREA  | 1,200 SF  | 1,777 SF  | 2,033 SF   |
| MIN. PARKING   | I GARAGE # I SPACE  | I GARAGE & I SPACE  | NO CHANGE  |
| BUILDING COVERAGE IS THE<br>A LOT, EXCLUDING PRIVATE<br>STEPS AND OTHER ARCHITE  | AREA OF MAXIMUM HO<br>RESIDENTIAL GARAGES<br>CTURAL FEATURES AS             | RIZONTAL CROSS SECTIO<br>5, UNCOVERED PORCHES<br>DEFINED UNDER SECTIO | N OF THE BUILDINGS O<br>, DECKS, TERRACES,<br>N 99-21E OF THE CODE.                          |
| MINIMUM REAR YARD SETEN<br>EXISTING LOT DEPTH IS 114.<br>MINIMUM REAR YARD SETEN | AGK IS 25.00' OR 20% O<br>19' - 20% OF 114.19' = 2<br>AGK THEREFORE IS 25.0 | F LOT DEPTH WHICHEVEI<br>2.83'.<br>0'.                                | R IS GREATER.  |

#### LIST OF DRAWINGS:

| ARB-001 | SITE PLAN AND ZONING INFORMATION |
|---------|----------------------------------|
| ARB-002 | CELLAR PLAN AND FIRST FLOOR PLAN |
| ARB-003 | SECOND FLOOR PLAN                |
| ARB-004 | EXTERIOR ELEVATIONS AND DETAIL   |
| ARB-005 | EXTERIOR ELEVATIONS              |
| ARB-006 | HOUSE PHOTOGRAPHS                |
|         |                                  |

#### SCOPE OF WORK:

|   | TROFOSED SECOND TEOOR TRONT ADDITION OVER |
|---|---|
|   | EXISTING 1-1/2 STORY PORTION OF HOUSE AND |
|   | PROPOSED 2 STORY ADDITION AT FRONT OF     |
|   | HOUSE.                                    |
| • | NEU FRANT DODTICO MID I MIDNIC PROPOSED   |

- NEXTERAT PORTICO AND LANDING PROPOSED.
   FIRST AND SECOND FLOOR INTERIOR RENOVATIONS
   ONE NEW SECOND FLOOR BATHROOT PROPOSED WITH ONE SINK, ONE TOLET AND ONE SHAVER.
   NEW SECOND FLOOR PRIMARY BEDROOT, STUDY
- AND WALK-IN CLOSET PROPOSED.
- SOFFITS, GUTTERS AND LEADERS TO BE INSTALLED ON ENTIRE HOUSE,

| rev.   | date   | description  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 12/12/23   | FOR ARB MEETING  |  |  |  |  |  |
|  | 11/15/23   | FOR ARB MEETING  |  |  |  |  |  |
| ACTING<br>TO ALT<br>SEAL O<br>ARCHIT<br>NOTATIN<br>AND TH<br>DESCRIT<br>THESE<br>SUCH A<br>INFRING<br>PROHIB | VIOLATION<br>UNDER TH<br>ER AN ITE<br>F AN ARCH<br>ECT SHALL<br>ON "ALTER<br>IE DATE OI<br>PTION OF 1<br>DRAWINGS<br>RE THE PR<br>EMENTS OF<br>ITED. | UP DIEL DAY INA AND EEDWA UNEUW<br>IN ANY NAY. FAN TEB BEARK THE<br>ITECT IS ALTERED, THE ALTERIG<br>AFFN TO INS ITET HE SEAL AND THE<br>ED BY FOLLOWED BY HIS SIGATURE<br>TO DIEL ATTENTION, AND A SPECIFIC<br>THE ALTERATION.<br>ARE INSTRUMENTS OF SERVICE AND AS<br>OFFRTY OF THE ARCHITECT.<br>A LTERATIONS BY CHIERS ARE |  |  |  |  |  |
| HUC  | HUGHES RESIDENCE   |  |  |  |  |  |  |
| RESI   | DENTIA   | AL RENOVATION  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

24 FERN STREET FLORAL PARK, NEW YORK

SITE PLAN AND ZONING INFORMATION

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DRV ARCHITECT, P.C.
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1180 Park Avenue Franklin Square, New York 11010 (516) 352-9827 www.drvarch.com

drawn by: AJH scale: AS NOTED checked by: W date: project number: 2337

ARB-001.00

01 OF 06

![](_page_68_Figure_0.jpeg)

![](_page_68_Figure_1.jpeg)

|  | 12/12/23             | FOR ARB ME        | ETING         |  |
|--|----------------------|-------------------|---------------|--|
|  | 11/15/23             | FOR ARB FIEL      | 1 I ING       |  |
| IT IS A VICATION OF THE LAN FOR ANY PERSON, UNLESS<br>ACTING UNDER THE DIRECTION OF A LICENSED ARCHTECT,<br>TO ALTER AN ITEM IN ANY MAY. IF AN ITEM BEARING THE<br>SEAL OF AN ARCHTECT IS ALTERD, THE ATEM SEA<br>ARCHTECT SHALL AFFIN TO HIS ITEM THE SEAL AND THE<br>NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE<br>AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC<br>DESCRIPTION OF THE ALTERATION, AND A SPECIFIC |                      |                   |               |  |
| THESE DRAMINGS ARE INSTRUMENTS OF SERVICE AND AS<br>SUCH ARE THE PROPERTY OF THE ARCHITECT.<br>INFRINGEMENTS OR ALTERATIONS BY OTHERS ARE<br>PROHIBITED.   |                      |                   |               |  |
| HUG  | ;HES                 | RESID             | ENCE          |  |
| RESI   | DENTIA               | AL RENOV          | ATION         |  |
| 24 F<br>FLOR   | ERN S<br>RAL PA      | TREET<br>ARK, NEW | YORK          |  |
| CELL   | AR PLA               | N AND FIR         | ST FLOOR PLAN |  |
| 1180 F   | Park Aver<br>352-982 | VARCH             | HITECT, P.C.  |  |
| drawa  | hin A                | 11 ob             | asked by W    |  |
| drawn by: AJH checked by: W  |                      |                   |               |  |
| scale: AS NULEU date:  |                      |                   |               |  |
| <u></u>  |                      |                   | DD 00100      |  |

02 OF 06

rev. date description

![](_page_69_Figure_0.jpeg)

![](_page_70_Figure_0.jpeg)

![](_page_71_Figure_0.jpeg)


24 FERN STREET (SUBJECT PROPERTY)



20 FERN STREET (SOUTH SIDE PROPERTY)



28 FERN STREET (NORTH SIDE PROPERTY)

| rev.  | date     | description     |  |  |
|---|----------|-----------------|--|--|
|   |          |                 |  |  |
|   |          |                 |  |  |
|   |          |                 |  |  |
|   |          |                 |  |  |
|   | 12/12/23 | FOR ARB MEETING |  |  |
|   | 11/15/23 | FOR ARB MEETING |  |  |
| IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLI<br>ACTING UNDER THE DIRECTION OF A LICENSED ARCHITE |          |                 |  |  |

|  | 12/12/23 | FOR ARB MEETING |  |  |  |  |  |
|--|----------|-----------------|--|--|--|--|--|
|  | 11/15/23 | FOR ARB MEETING |  |  |  |  |  |
| IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS<br>CTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, |          |                 |  |  |  |  |  |

|   | 12/12/23 | FOR ARB MEETING |  |  |  |  |
|---|----------|-----------------|--|--|--|--|
|   | 11/15/23 | FOR ARB MEETING |  |  |  |  |
| IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS<br>TING UNDER THE DIRECTION OF A LICENSED ARCHITECT,<br>ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE |          |                 |  |  |  |  |

SEAL OF AN ARCHITECT IS ALTERED, THE ALTERING ARCHITECT SHALL AFFIX TO HIS ITEDITHE SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ARCHITECT, p.c.

ARB-006.00 06 OF 06

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH ARE THE PROPERTY OF THE ARCHITECT. INFRINGEMENTS OR ALTERATIONS BY OTHERS ARE PROHIBITED.

HUGHES RESIDENCE

RESIDENTIAL RENOVATION

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24 FERN STREET FLORAL PARK, NEW YORK

HOUSE PHOTOGRAPHS

DRV

| Case<br>No. | Approximate<br>Time | Address # | Street        | Description     | Owner                | Design Professional |
|-------------|---------------------|-----------|---------------|-----------------|----------------------|---------------------|
| 9           | 8:40 p.m.           | 132       | Crocus Avenue | Garage Addition | Raymond<br>Gallagher | Christopher Dowdell |



## 132 Crocus Avenue (Aerial View)







3. A

13.7

13:60

42

2

North -

1010al 20 00 el -201207 . 200 0007 - TEGEISTENTS -VELINCLES -917 335 .7486

14 MAX

CAPACIE

STREET CUT 14' MAX





