



# ARCHITECTURAL & PRELIMINARY SITE PLAN REVIEW BOARD

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

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

JANUARY 22, 2025

8:00 pm

Note Location: Recreation Center/Pool Building

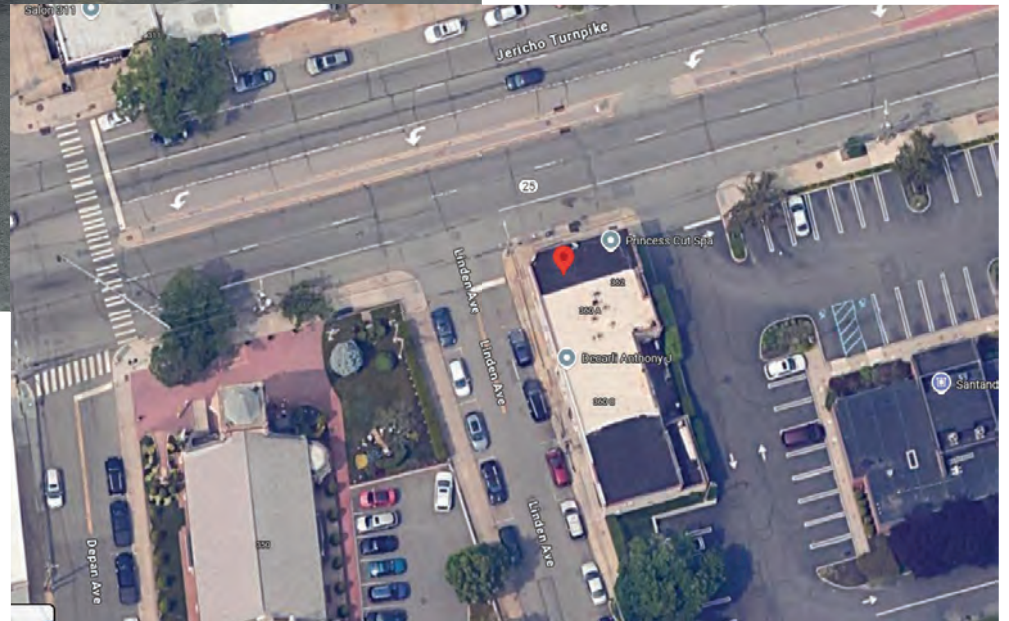
Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	360D	Jericho Turnpike	Sign	LaManga's Dog Grooming	Dezant Signs
2	8:10 p.m.	221	Locust Street	Solar	Liana Riccardi	Momentum Solar
3	8:20 p.m.	19	Depan Avenue	Solar	Thomas Thottam	Momentum Solar
4	8:30 p.m.	189	Bellmore Street	Second Story Addition and Portico	Jason & Cynthia Urbanski	Christopher Dowdell
5	8:40 p.m.	80	Willow Street	Two Car Garage and Mud Room Addition	Laura Pape	Demetris Demetriou
6	8:50 p.m.	78	Ontario Road	Addition		Demetris Demetriou

Questions about the projects can be emailed to [ARB@FPVillage.org](mailto:ARB@FPVillage.org) 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 [here](#) for the ARB webpage.

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	360D	Jericho Turnpike	Sign	LaManga's Dog Grooming	Dezant Signs







**EXISTING**



"L" 10"  
"D" in Dog 2.5"

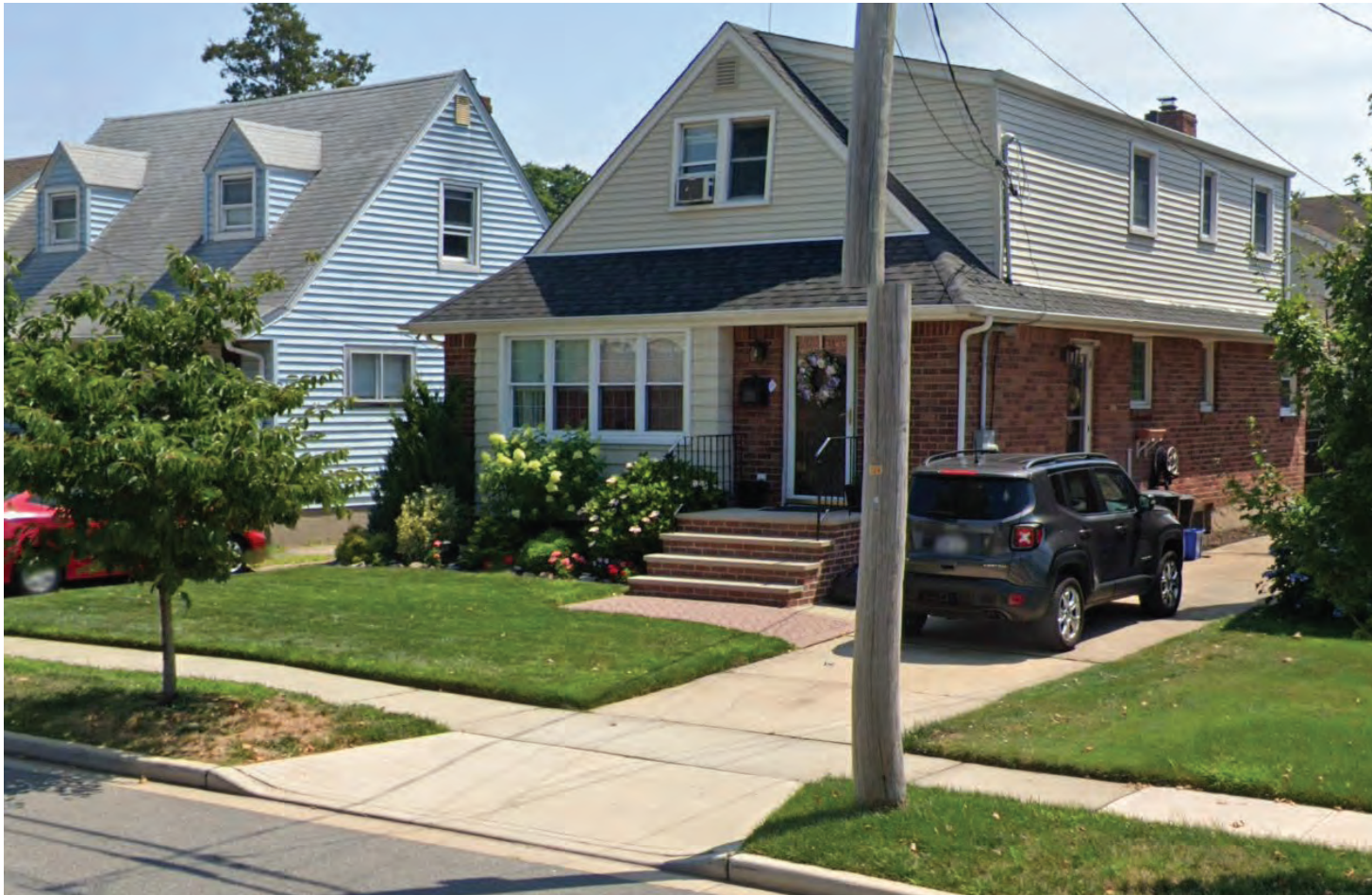
**DeZant**  
Signs & Printing  
Design • Fabrication • Installation  
Awnings, Light Boxes, Channel Letters,  
Job-Site Signs, Wood Signs,  
Truck Lettering & more

**516-771-9241**  
32 Cherry Lane Floral Park, NY 11001

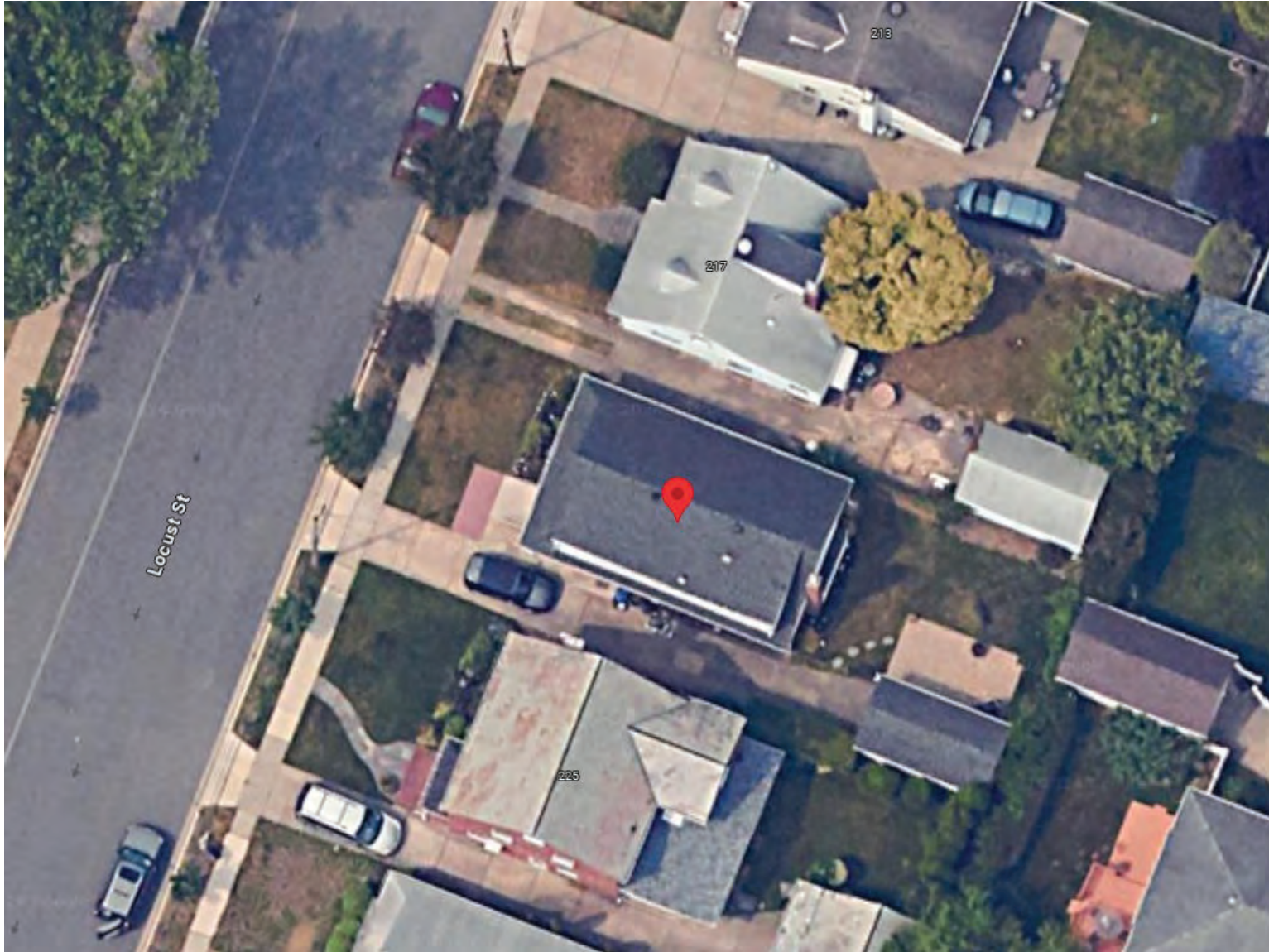
[www.dezantsigns.com](http://www.dezantsigns.com)



Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
2	8:10 p.m.	221	Locust Street	Solar	Liana Riccardi	Momentum Solar



# 221 Locust Street (Aerial View)





PLAN KEY	
PV-1	COVER PAGE
PV-1(2)	COVER PAGE CONT.
PV-2	PANEL LAYOUT
PV-2(2)	PLOT PLAN
PV-3	ELEVATION 1
PV-4	ELEVATION 2
PV-5	ELEVATION 3
PV-6	SUPERIMPOSED PHOTO
PV-6 (2)	SUPERIMPOSED PHOTO
PV-7	ELECTRICAL
PV-8	EQUIPMENT LABELS

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK ML-G10+ 410
INVERTER	ENPHASE IQ8HC-72-M-DOM-US
RACKING	UNIRAC SM LIGHT RAIL SYSTEM W/ SOLAR MOUNT
SYSTEM SIZE (DC)	14.35 KW
LOCATION	40.7142885,-73.7049947

**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. THIS REVIEW 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
2. CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF THE 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.

THE UL CERTIFICATE OF ELECTRICAL INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

BILL OF MATERIALS	
NON SH MODULES	35
SH MODULES	0
INVERTERS	35
L-FOOT ATTACHMENT W/ UNIRAC SOLAR MOUNT	122
ENPHASE COMBINER BOX	1
SOLAR AC DISCONNECT	1
70A OCPD	1
125A LINE TAPS	2
168" RAIL	18



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR  
3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ  
(732) 902-6224, MOMENTUMSOLAR.COM

**PROFESSIONAL ENGINEERING**



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224  
3096 HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060  
ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS & ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

**CUSTOMER INFORMATION**

LIANA RICCARDI - MS161207  
221 LOCUST ST  
FLORAL PARK, NY 11001  
9175190841

JURISDICTION: NASSAU  
UTILITY: PSEGI  
UTILITY ACCT #:  
UTILITY METER #:

**PV SYSTEM INFORMATION**

SYSTEM SIZE (DC ): 14.35 KW  
SYSTEM SIZE (AC ): 13.3 KVA  
35 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 410  
(SAFE HARBOR MODULES: 0)  
35 INVERTERS: ENPHASE IQ8HC-72-M-DOM-US

**PROJECT INFORMATION**

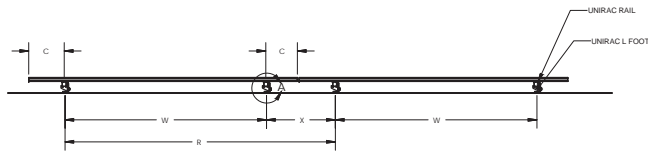
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REV:	DATE:	DESIGNER:
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**COVER PAGE**

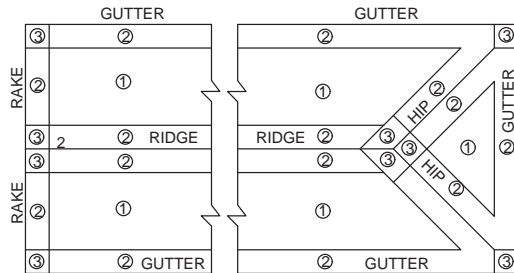
**PV-1**



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.
2. 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 ASTM C920 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 OUTER ROOF EDGES,  
 RIDGES, HIPs, RAKES, AND GUTTER EDGES FOR STRUCTURES  
 BELOW 30'-0" MEAN ROOF HT.

TOTAL WEIGHT OF PV MODULES AND RAILS	1464.75 LBS
TOTAL NUMBER OF ATTACHMENT POINTS	109
WEIGHT PER ATTACHMENT POINT	13.438073394495
	4 LBS
TOTAL SURFACE AREA OF PV MODULES	634.9 SQFT
DISTRIBUTED WEIGHT OF PV MODULE ON ROOF	2.31 LBS./SQFT

P/N	DESCRIPTION	LENGTH
315168M	SM LIGHT RAIL 168" MILL	168"
315168D	SM LIGHT RAIL 168" DRK	168"
315240M	SM LIGHT RAIL 240" MILL	240"
315240D	SM LIGHT RAIL 240" DRK	240"

<b>UNIRAC</b> 1411 WASHINGTON BLVD. NE ALBUQUERQUE, NM 87109 USA PHONE: 505.242.8411 WWW.UNIRAC.COM	PRODUCT LINE: SOLARMOUNT DRAWING TYPE: PART DETAIL DESCRIPTION: LIGHT RAIL REVISION DATE: 9/11/2017	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	SM-P02 SHEET
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<b>UNIRAC</b> 1411 WASHINGTON BLVD. NE ALBUQUERQUE, NM 87109 USA PHONE: 505.242.8411 WWW.UNIRAC.COM	PRODUCT LINE: SOLARMOUNT DRAWING TYPE: PART & ASSEMBLY DESCRIPTION: L-FOOT REVISION DATE: 11/19/2018	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	SM-A11 SHEET
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CLIMATIC & GEOGRAPHIC DESIGN CRITERIA TABLE R301.2(1)	
GROUND SNOW LOAD(LBS/SF)	25
SPEED (MPH)	120
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	C
CLIMATE ZONE	4A
WIND EXPOSURE CATEGORY	B

**STRUCTURAL STATEMENT:**

THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR. EXISTING RAFTER SIZES & DIMENSIONS CONFIRM TO 2020 NYS BUILDING CODE AND RESIDENTIAL CODE TABLE R802.5(1)-JOIST SPANS.

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED NEW YORK STATE CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.



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**ATTACHMENT DETAIL**

**PV-1(2)**

SCALE: 1/8" = 1'-0"



ROOF	MODULE COUNT	TILT	AZIMUTH	SHADING	LANDSCAPE MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT MAX SPAN (ROOF AREA 1/2/3)
R1	13	13°	201°	97%	48 /32 /32	48 /32 /32
R2	22	41°	21°	87%	48 /32 /32	48 /32 /32



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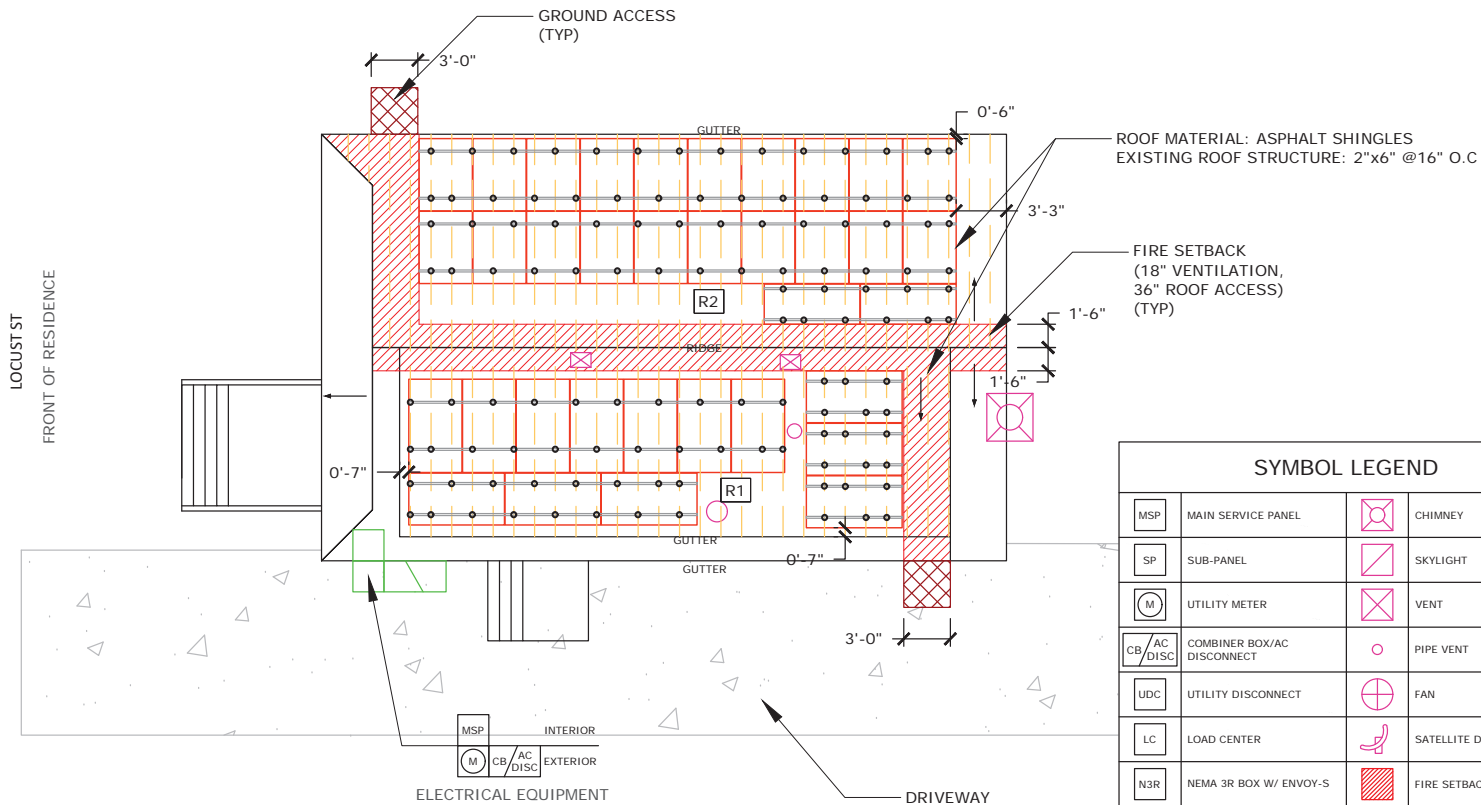
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**PANEL LAYOUT**

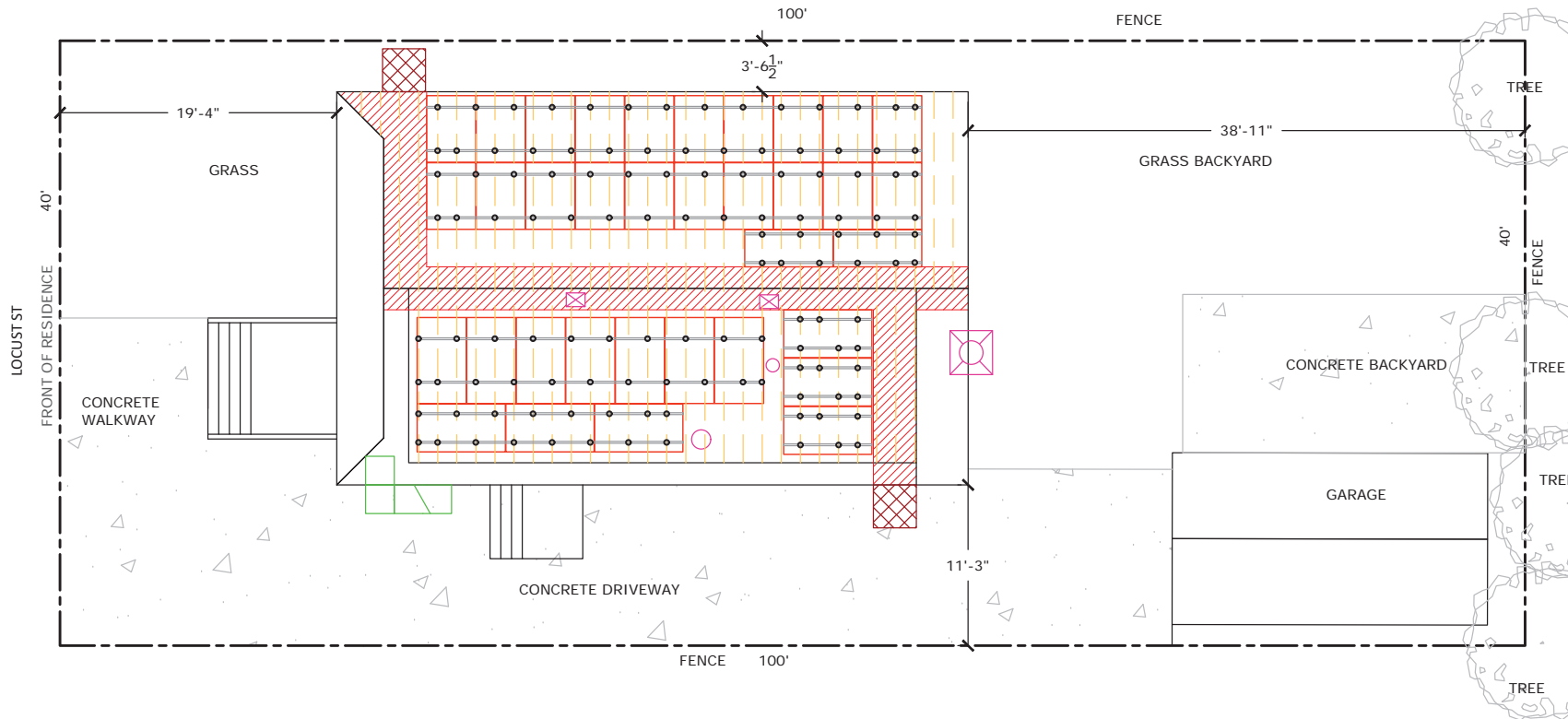
**PV-2**



**SYMBOL LEGEND**

MSP	MAIN SERVICE PANEL	☒	CHIMNEY
SP	SUB-PANEL	☒	SKYLIGHT
M	UTILITY METER	☒	VENT
CB/AC DISC	COMBINER BOX/AC DISCONNECT	○	PIPE VENT
UDC	UTILITY DISCONNECT	⊕	FAN
LC	LOAD CENTER	☞	SATELLITE DISH
N3R	NEMA 3R BOX W/ ENVOY-S	▨	FIRE SETBACKS
CB	COMBINER BOX	▨	GROUND ACCESS
PF	PERFORMANCE METER	→	PITCH DIRECTION
□	MODULE		

SCALE: 1/8" = 1'-0"



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**PLOT PLAN**

**PV-2(2)**





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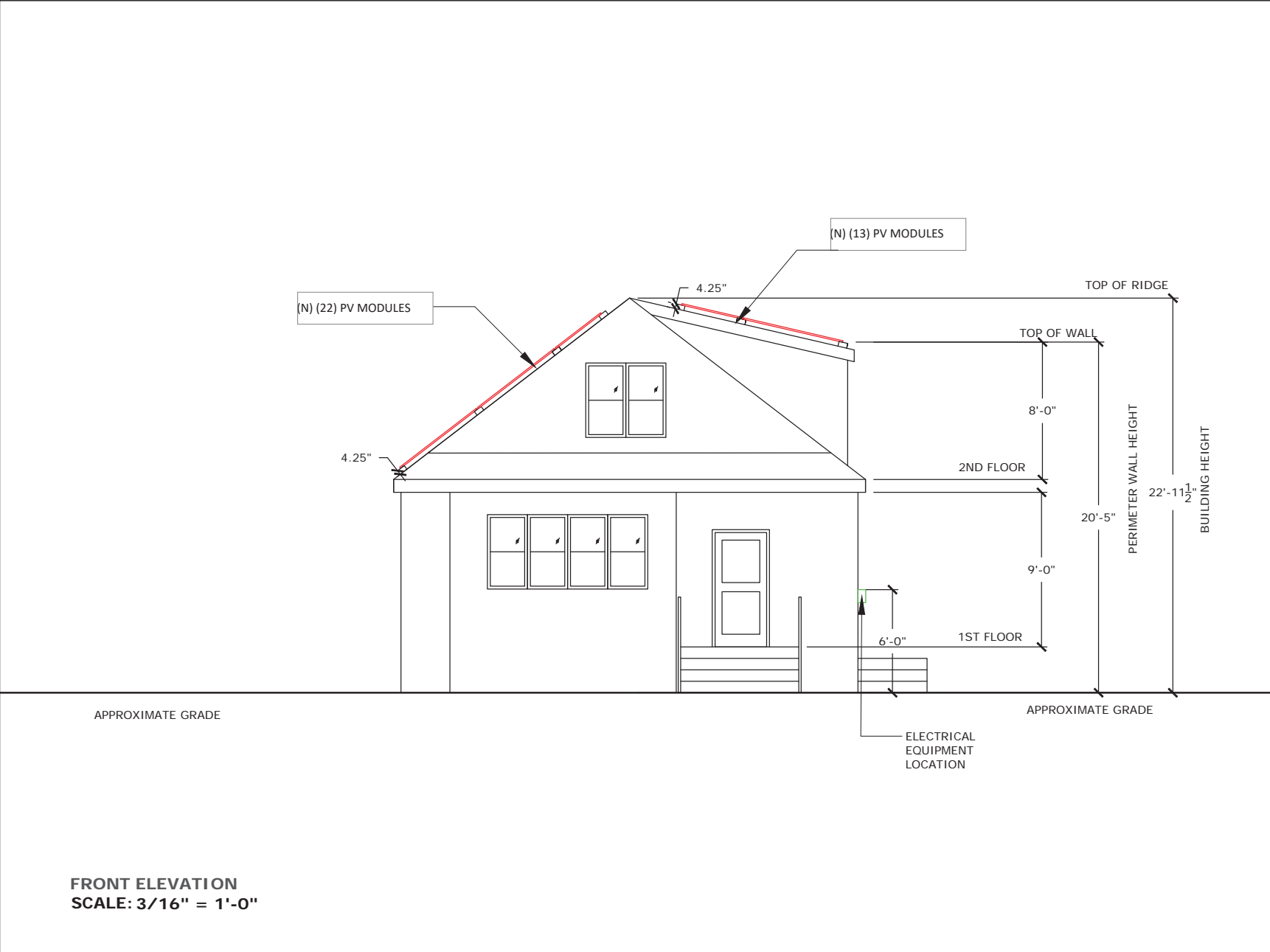
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ELEVATION 1

**PV-3**



**FRONT ELEVATION**  
**SCALE: 3/16" = 1'-0"**



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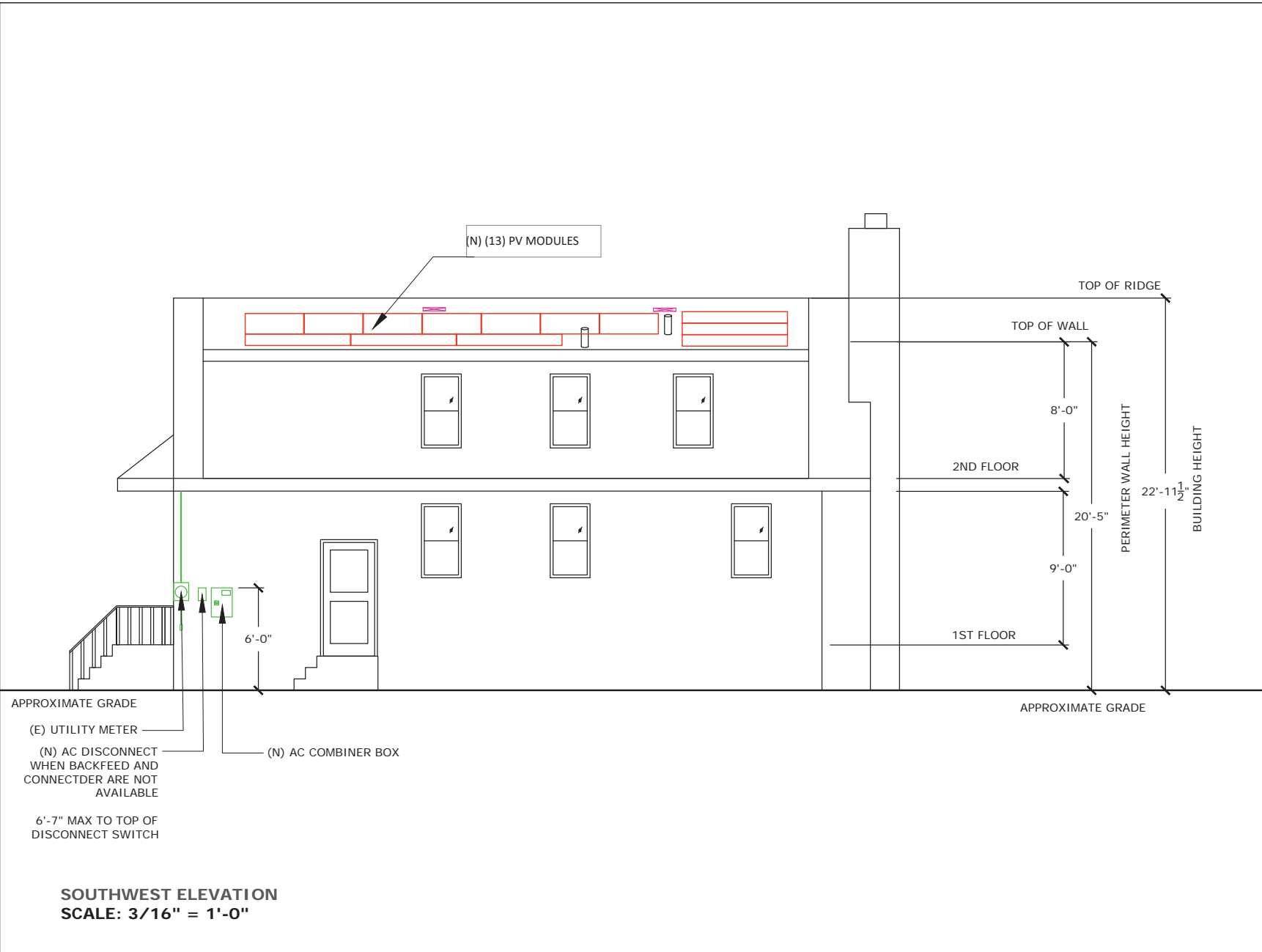
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ELEVATION 1

**PV-4**



**SOUTHWEST ELEVATION**  
**SCALE: 3/16" = 1'-0"**



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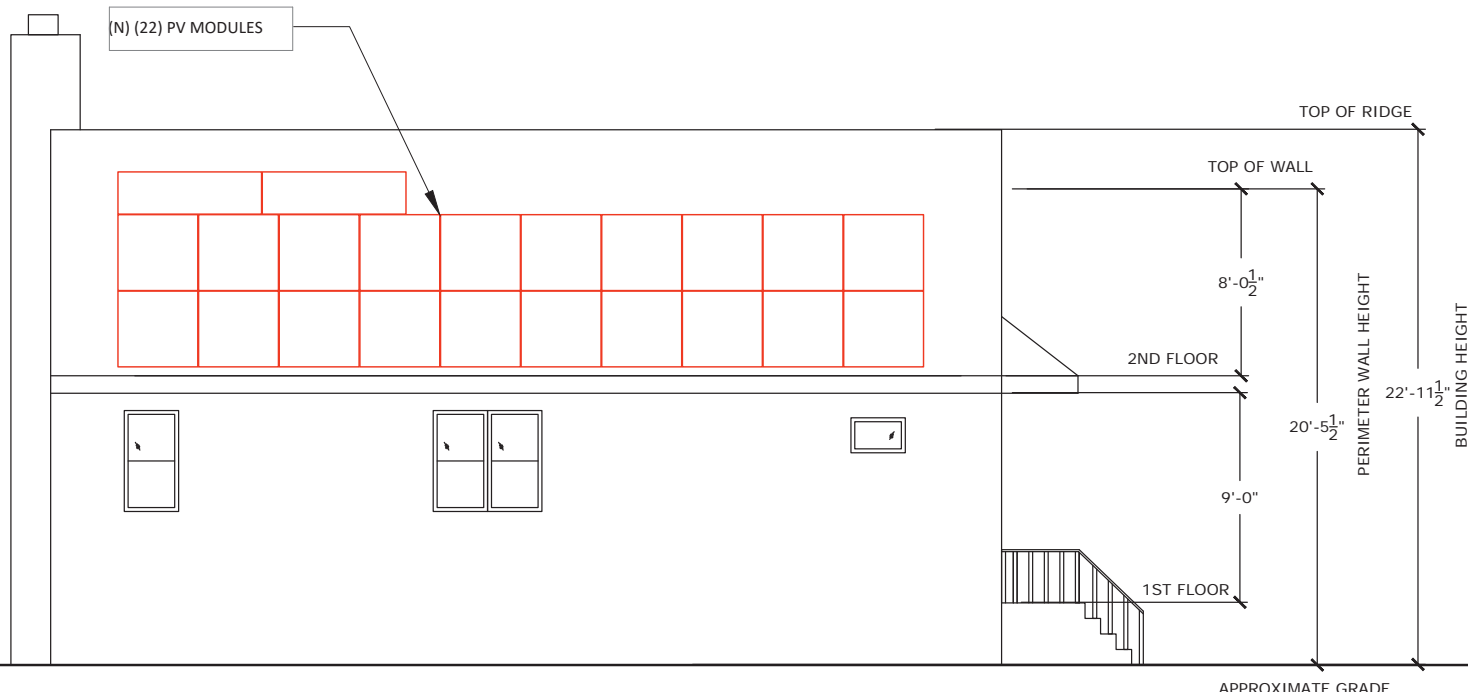
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ELEVATION 1

**PV-5**



APPROXIMATE GRADE

APPROXIMATE GRADE

**NORTHEAST ELEVATION**  
**SCALE: 3/16" = 1'-0"**





NO PANELS ON FRONT OF THE HOUSE



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LIANA RICCARDI - MS161207  
 221 LOCUST ST  
 FLORAL PARK, NY 11001  
 9175190841

JURISDICTION: NASSAU  
 UTILITY: PSEGLI  
 UTILITY ACCT #:  
 UTILITY METER #:

**PV SYSTEM INFORMATION**

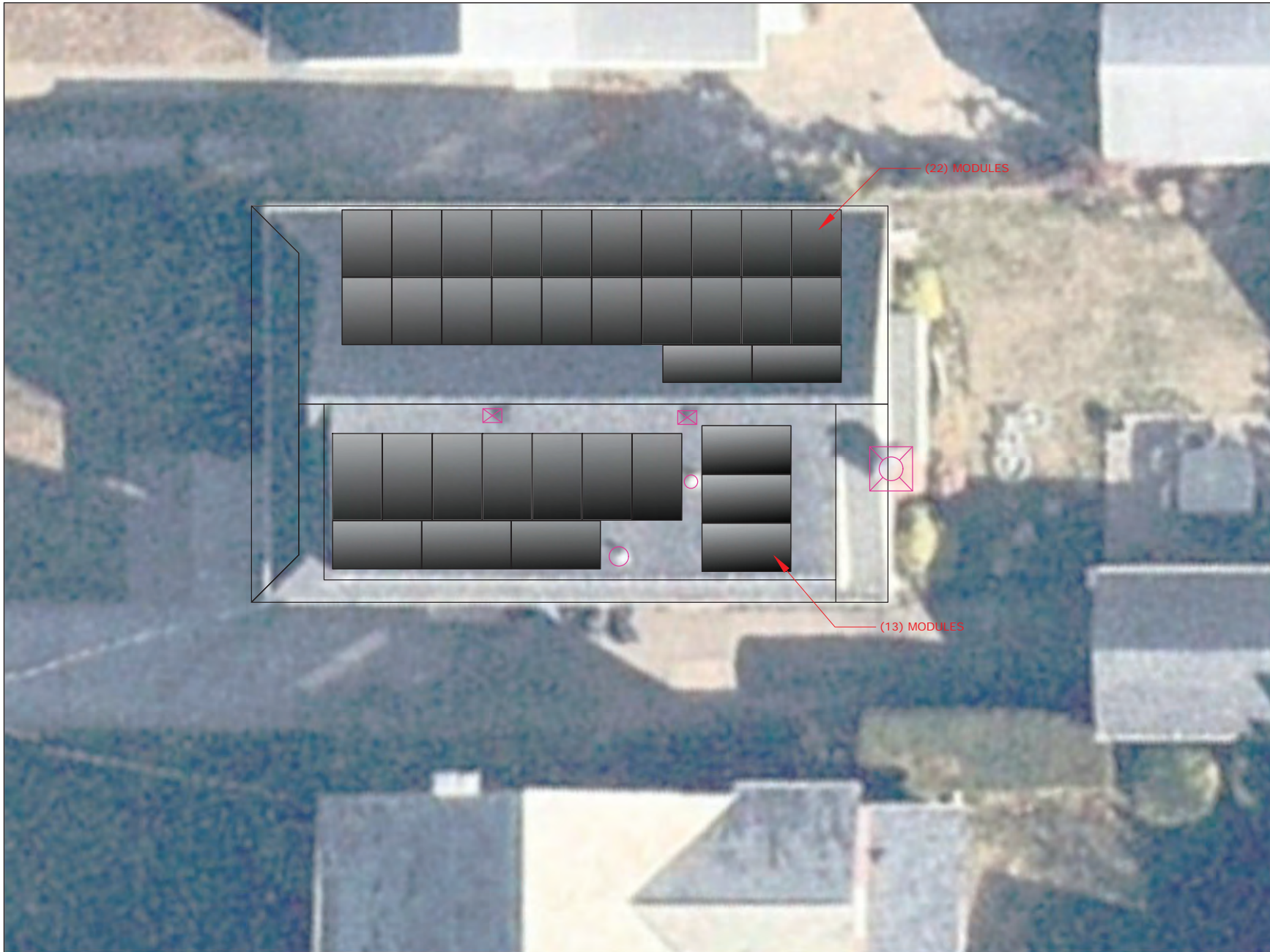
SYSTEM SIZE (DC ): 14.35 KW  
 SYSTEM SIZE (AC ): 13.3 KVA  
 35 MODULES: HANWHA Q.PEAK DUO BLK  
 ML-G10+ 410  
 (SAFE HARBOR MODULES: 0)  
 35 INVERTERS: ENPHASE  
 Q8HC-72-M-DOM-US

**PROJECT INFORMATION**

INITIAL	DATE: 11/26/2024	DESIGNER: SH
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

**SUPERIMPOSED PHOTO**

**PV-6**



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR  
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ  
 (732) 902-6224, MOMENTUMSOLAR.COM

**PROFESSIONAL ENGINEERING**



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224  
 3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060  
 ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND  
 AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &  
 ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE  
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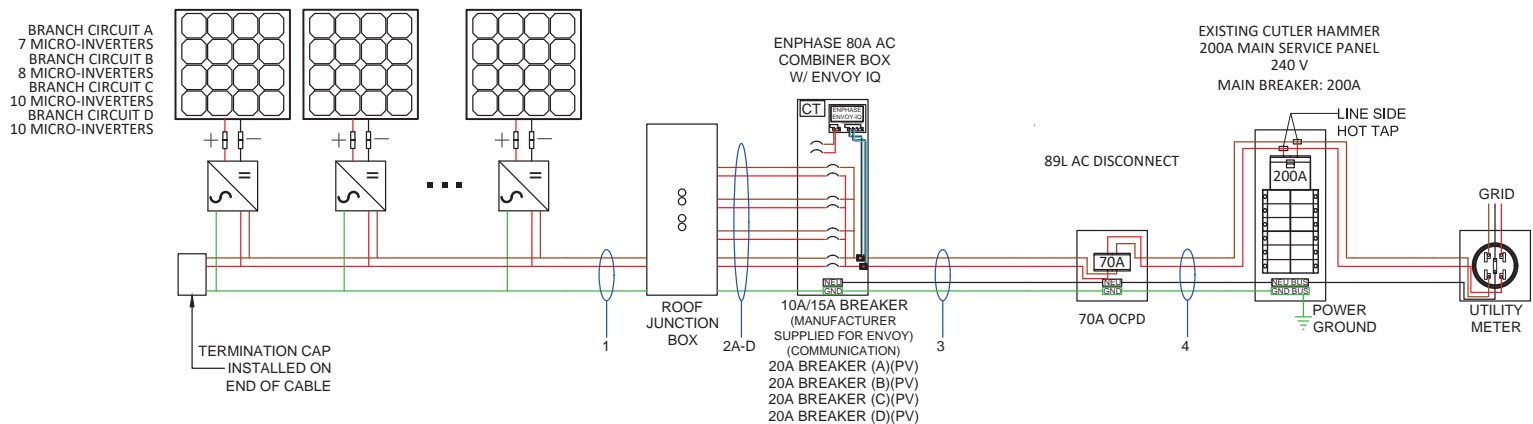
INITIAL	DATE: 11/26/2024	DESIGNER: SH
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

**SUPERIMPOSED PHOTO**

**PV-6 (2)**



35 HANWHA Q.PEAK DUO BLK ML-G10+ 410 410W MODULES PAIRED WITH  
35 ENPHASE IQ8HC-72-M-DOM-US MICRO-INVERTERS



**ELECTRICAL NOTES:**

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C).
3. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS WILL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN.
4. THIS SYSTEM COMPLIES WITH NEC 2017 89L LESS THAN 10FT TO THE MAIN BREAKER/METER.

5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C UNLESS NOTED
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATA SHEET
8. GROUNDING CONDUCTOR RUN WITH PHASE CONDUCTOR IN THE SAME CONDUIT.
9. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPILES WITH 690.6- NO DC. DISCONNECT AND ASSOCIATED DC CABLING ARE REQUIRED.

10. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C)(3). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED AS PER 690.52.
11. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS - BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS 690.6.
12. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES SHALL COMPLY WITH 250.64.
13. NO TERMINALS WILL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.6, 690.17.
14. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B) AS PERMITTED BY 230.82(6)



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**ELECTRICIAN**

PRO CUSTOM SOLAR DBA MOMENTUM SOLAR  
JEFFREY MARINELLO, (732) 902-6224  
3096 HAMILTON BLVD. BUILDING B, SOUTH PLAINFIELD, NJ 07080

**CUSTOMER INFORMATION**

LIANA RICCARDI - MS161207  
221 LOCUST ST  
FLORAL PARK, NY 11001  
9175190841

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UTILITY METER #:

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SAFE HARBOR MODULES: 0)  
35 INVERTERS: ENPHASE IQ8HC-72-M-DOM-US

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**ELECTRICAL**


**PV-7**

Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	10	1.58	1.25	19.75	12 AWG	Trunk Cable
2A	1" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.7	26.88	7	1.58	1.25	13.83	08 AWG	THWN-2
2B	1" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.7	26.88	8	1.58	1.25	15.80	08 AWG	THWN-2
2C	1" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.7	26.88	10	1.58	1.25	19.75	08 AWG	THWN-2
2D	1" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.7	26.88	10	1.58	1.25	19.75	08 AWG	THWN-2
3	1" PVC	3	04 AWG	THWN-2	75°C	85	0.96	1	81.60	35	1.58	1.25	69.13	08 AWG	THWN-2
4	1" PVC	3	04 AWG	THWN-2	75°C	85	0.96	1	81.60	35	1.58	1.25	69.13	08 AWG	THWN-2




TAG	LABEL	QUANTITY	LOCATION	NOTE
(A)		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'
(B)		1	COMBINER BOX	1 AT ANY COMBINER BOX
(C)		1	JUNCTION BOX	1 AT ANY JUNCTION BOX
(D)		1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL
(E)		1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD
(F)		1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD
(G)		1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD
(H)		1	AC CURRENT PV MODULES	


EXAMPLES




(A)




(B)




(C)




(D)



(E)




(G) BACKFEED



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**EQUIPMENT LABELS**

**PV-8**

# Q.PEAK DUO BLK ML-G10+ SERIES



385 - 410 W<sub>p</sub> | 132 Cells  
20.9% Maximum Module Efficiency

MODEL Q.PEAK DUO BLK ML-G10+



6 busbar  
cell technology

12 busbar  
cell technology



## Breaking the 20% efficiency barrier

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



Warranty  
Product & Performance

## A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>1</sup>.



## Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology<sup>2</sup> and Hot-Spot Protect.



## Extreme weather rating

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



## Innovative all-weather technology

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



## The most thorough testing programme in the industry

Qcells 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.

<sup>1</sup> See data sheet on rear for further information.

<sup>2</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)

### The ideal solution for:



Rooftop arrays on  
residential buildings

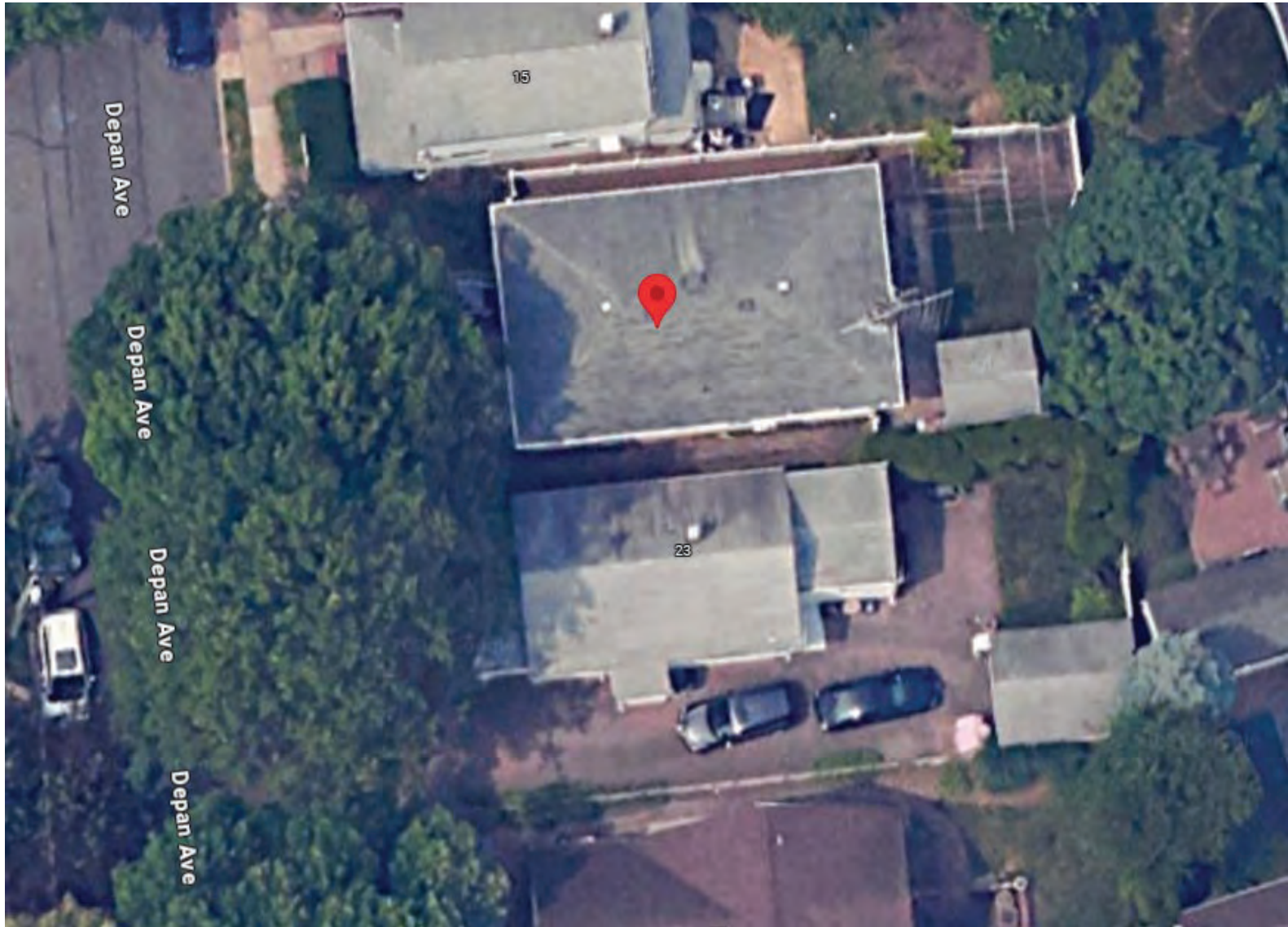


Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
3	8:20 p.m.	19	Depan Avenue	Solar	Thomas Thottam	Momentum Solar





# 19 Depan Avenue (Aerial View)





PLAN KEY	
PV-1	COVER PAGE
PV-1(2)	ATTACHMENT DETAIL
PV-2	PANEL LAYOUT
PV-2(2)	PLOT PLAN
PV-3	ELEVATION -1
PV-4	ELEVATION -2
PV-5	SUPERIMPOSED PHOTO
PV-6	SUPERIMPOSED PHOTO
PV-7	SUPERIMPOSED PHOTO
PV-8	SUPERIMPOSED PHOTO
PV-9	SUPERIMPOSED PANELS
PV-10	ELECTRICAL
PV-11	EQUIPMENT LABELS

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK ML-G10+ 410
INVERTER	ENPHASE IQ8HC-72-M-DOM-US
RACKING	UNIRAC SM LIGHT RAIL SYSTEM W/ SOLAR MOUNT
SYSTEM SIZE (DC)	4.92 KW
LOCATION	40.7287882,-73.6971777

**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. THIS REVIEW 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
2. CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF THE 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.

THE UL CERTIFICATE OF ELECTRICAL INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO SCHEDULING OF FINAL INSPECTION.

BILL OF MATERIALS	
NON SH MODULES	12
SH MODULES	0
INVERTERS	12
L-FOOT ATTACHMENT W/ UNIRAC SOLAR MOUNT	39
ENPHASE COMBINER BOX	1
SOLAR AC DISCONNECT	1
30A OCPD	1
125A LINE TAPS	2
168" RAIL	6



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19 DEPAN AVE  
FLORAL PARK, NY 11001  
5167244634

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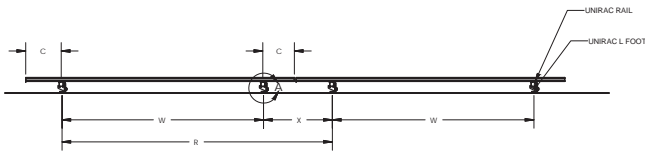
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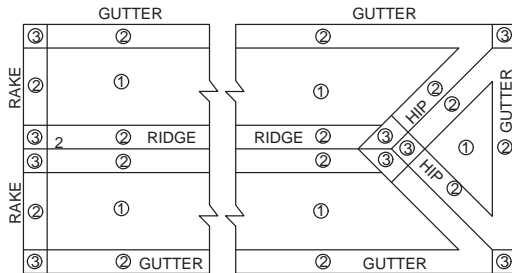
**COVER PAGE**

**PV-1**

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.
2. 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 ASTM C920 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 OUTER ROOF EDGES,  
 RIDGES, HIPs, RAKES, AND GUTTER EDGES FOR STRUCTURES  
 BELOW 30'-0" MEAN ROOF HT.

TOTAL WEIGHT OF PV MODULES AND RAILS	502.2 LBS
TOTAL NUMBER OF ATTACHMENT POINTS	37
WEIGHT PER ATTACHMENT POINT	13.572972972973
	LBS
TOTAL SURFACE AREA OF PV MODULES	217.68 SQFT
DISTRIBUTED WEIGHT OF PV MODULE ON ROOF	2.31 LBS./SQFT

PART # TABLE		
P/N	DESCRIPTION	LENGTH
315168M	SM LIGHT RAIL 168" MILL	168"
315168D	SM LIGHT RAIL 168" DRK	168"
315240M	SM LIGHT RAIL 240" MILL	240"
315240D	SM LIGHT RAIL 240" DRK	240"

<b>UNIRAC</b> 1411 WASHINGTON BLVD. SE ALBUQUERQUE, NM 87107 USA PHONE: 505.242.8411 WWW.UNIRAC.COM	PRODUCT LINE: SOLARMOUNT DRAWING TYPE: PART DETAIL DESCRIPTION: LIGHT RAIL REVISION DATE: 9/11/2017	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	SM-P02 SHEET
---	--	---	-----------------

<b>UNIRAC</b> 1411 WASHINGTON BLVD. SE ALBUQUERQUE, NM 87107 USA PHONE: 505.242.8411 WWW.UNIRAC.COM	PRODUCT LINE: SOLARMOUNT DRAWING TYPE: PART & ASSEMBLY DESCRIPTION: L-FOOT REVISION DATE: 11/19/2018	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	SM-A11 SHEET
---	---	---	-----------------

CLIMATIC & GEOGRAPHIC DESIGN CRITERIA TABLE R301.2(1)	
GROUND SNOW LOAD(LBS/SF)	25
SPEED (MPH)	110
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	C
CLIMATE ZONE	4A
WIND EXPOSURE CATEGORY	B

**STRUCTURAL STATEMENT:**

THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR. EXISTING RAFTER SIZES & DIMENSIONS CONFIRM TO 2020 NYS BUILDING CODE AND RESIDENTIAL CODE TABLE R802.5(1)-JOIST SPANS.

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED NEW YORK STATE CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.



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 19 DEPAN AVE  
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 5167244634

JURISTDICTION: NASSAU  
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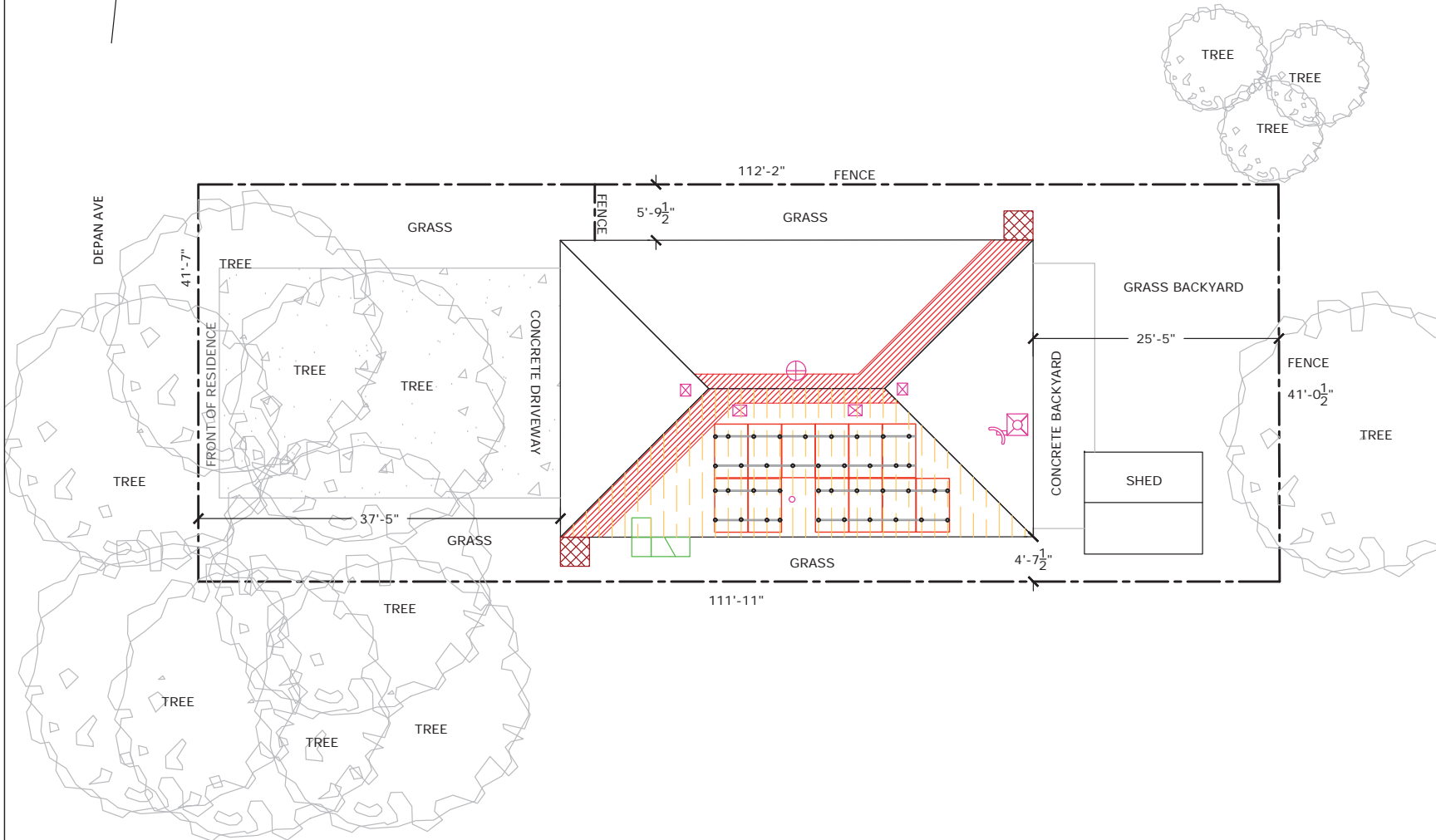
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**ATTACHMENT DETAIL**

**PV-1(2)**



SCALE: 3/32" = 1'-0"



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REV:	DATE:	DESIGNER:

**PLOT PLAN**

**PV-2(2)**



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR  
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ  
 (732) 902-6224, MOMENTUMSOLAR.COM

**PROFESSIONAL ENGINEERING**



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224  
 3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07060  
 ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND  
 AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS &  
 ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE  
 COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR  
 ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A  
 LICENSED PROFESSIONAL, TO ALTER AN ITEM IN ANY WAY.

**CUSTOMER INFORMATION**

THOMAS THOTTAM - MS162530  
 19 DEPAN AVE  
 FLORAL PARK, NY 11001  
 5167244634

JURISDICTION: NASSAU  
 UTILITY: PSEGLI  
 UTILITY ACCT #:  
 UTILITY METER #:

**PV SYSTEM INFORMATION**

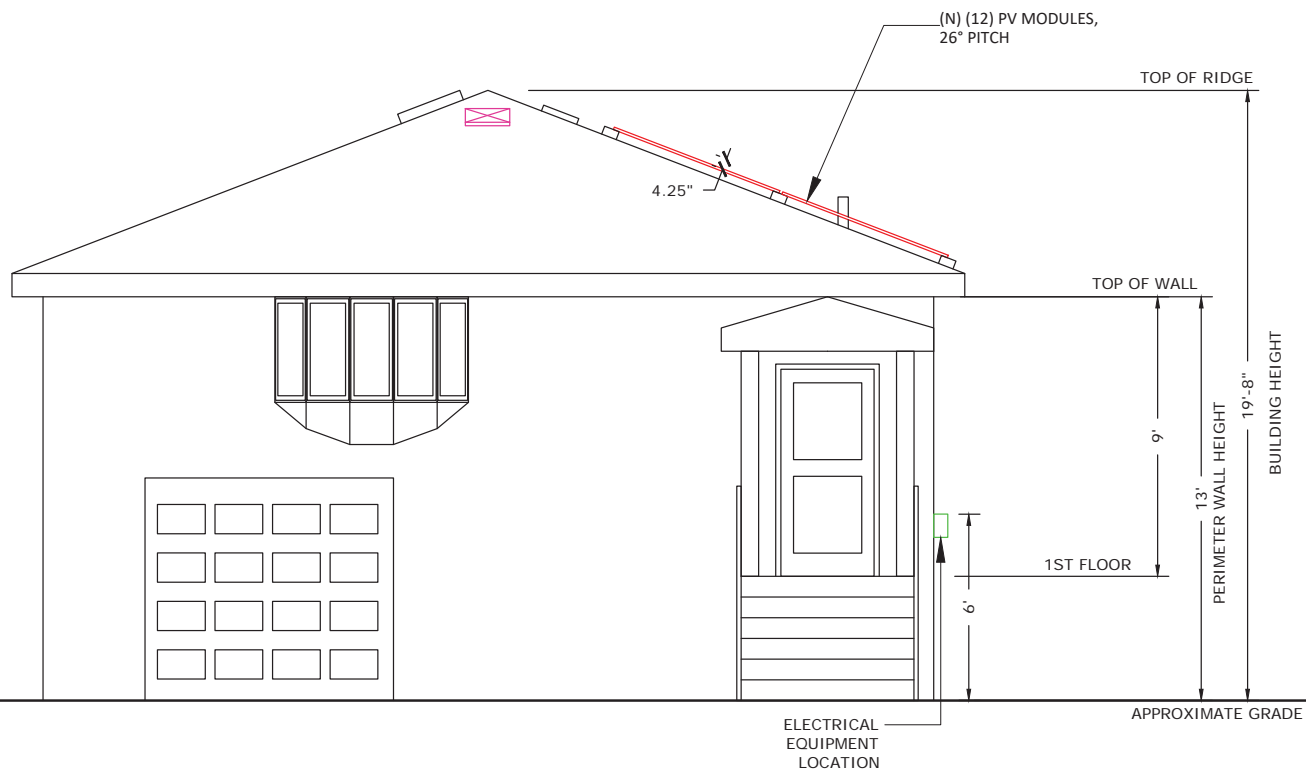
SYSTEM SIZE (DC): 4.92 KW  
 SYSTEM SIZE (AC): 4.56 KVA  
 12 MODULES: HANWHA Q.PEAK DUO BLK  
 ML-G10+ 410  
 (SAFE HARBOR MODULES: 0)  
 12 INVERTERS: ENPHASE  
 Q8HC-72-M-DOM-US

**PROJECT INFORMATION**

INITIAL	DATE: 12/18/2024	DESIGNER: SR
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELEVATION - 1

**PV-3**



**FRONT ELEVATION**  
**SCALE: 1/4" = 1'-0"**





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**PV SYSTEM INFORMATION**

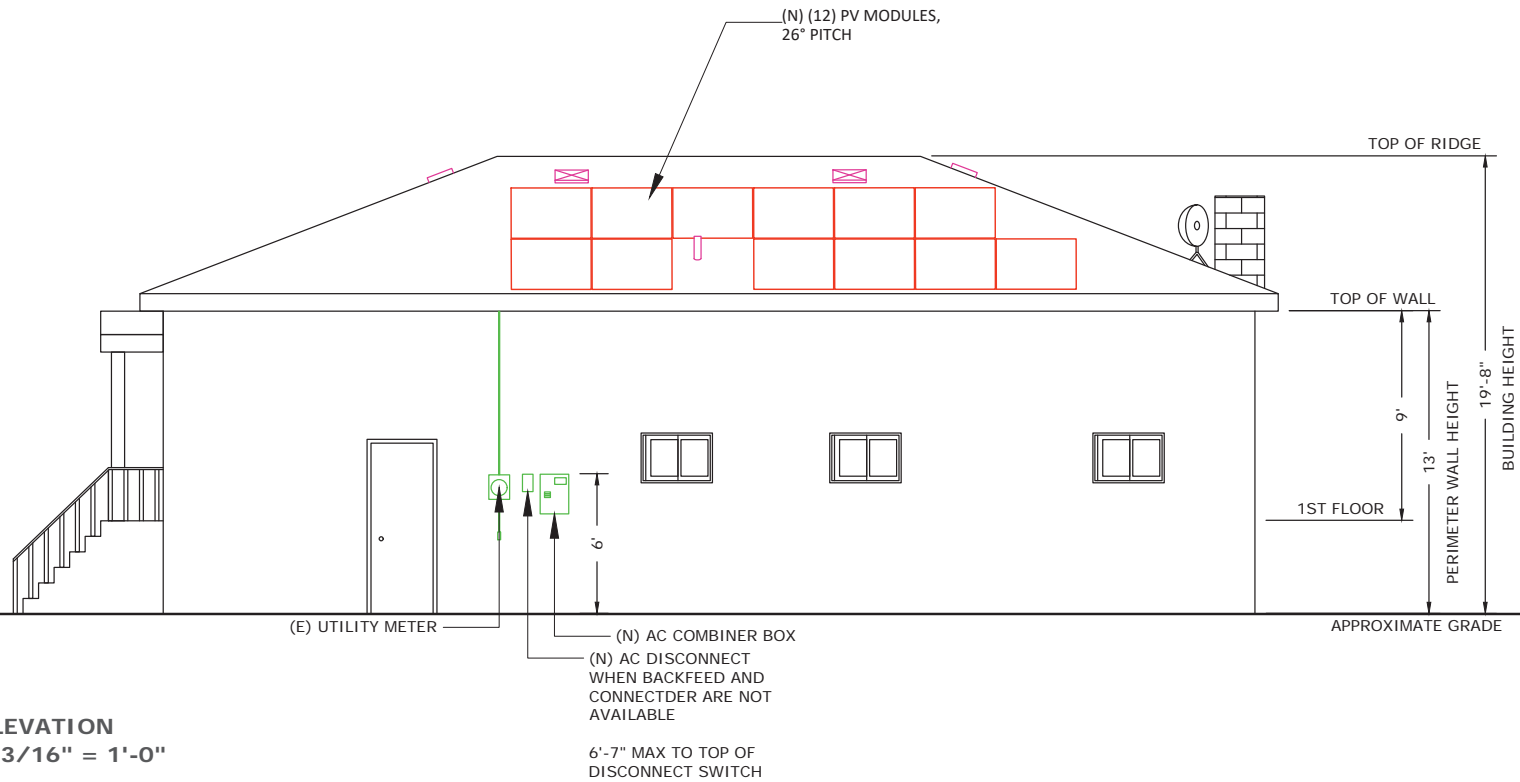
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**PROJECT INFORMATION**

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REV:	DATE:	DESIGNER:

ELEVATION -2

**PV-4**



**SIDE ELEVATION**  
**SCALE: 3/16" = 1'-0"**



FRONT OF HOUSE

PANELS ARE NOT VISIBLE FROM FRONT OF HOUSE



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5167244634

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ML-G10+ 410  
(SAFE HARBOR MODULES: 0)  
12 INVERTERS: ENPHASE  
Q8HC-72-M-DOM-US

**PROJECT INFORMATION**

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REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

**SUPERIMPOSED PHOTO**

**PV-5**





NORTHWEST SIDE



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**PROFESSIONAL ENGINEERING**



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(SAFE HARBOR MODULES: 0)  
12 INVERTERS: ENPHASE  
Q8HC-72-M-DOM-US

**PROJECT INFORMATION**

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REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

**SUPERIMPOSED PHOTO**

**PV-6**



SOUTHEAST SIDE



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR  
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ  
 (732) 902-6224, MOMENTUMSOLAR.COM

**PROFESSIONAL ENGINEERING**



MINA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224  
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 12 INVERTERS: ENPHASE  
 Q8HC-72-M-DOM-US

**PROJECT INFORMATION**

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REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

**SUPERIMPOSED PHOTO**

**PV-7**





BACK OF HOUSE



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR  
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ  
 (732) 902-6224, MOMENTUMSOLAR.COM

**PROFESSIONAL ENGINEERING**



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 5167244634  
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 UTILITY METER #:

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 ML-G10+ 410  
 (SAFE HARBOR MODULES: 0)  
 12 INVERTERS: ENPHASE  
 Q8HC-72-M-DOM-US

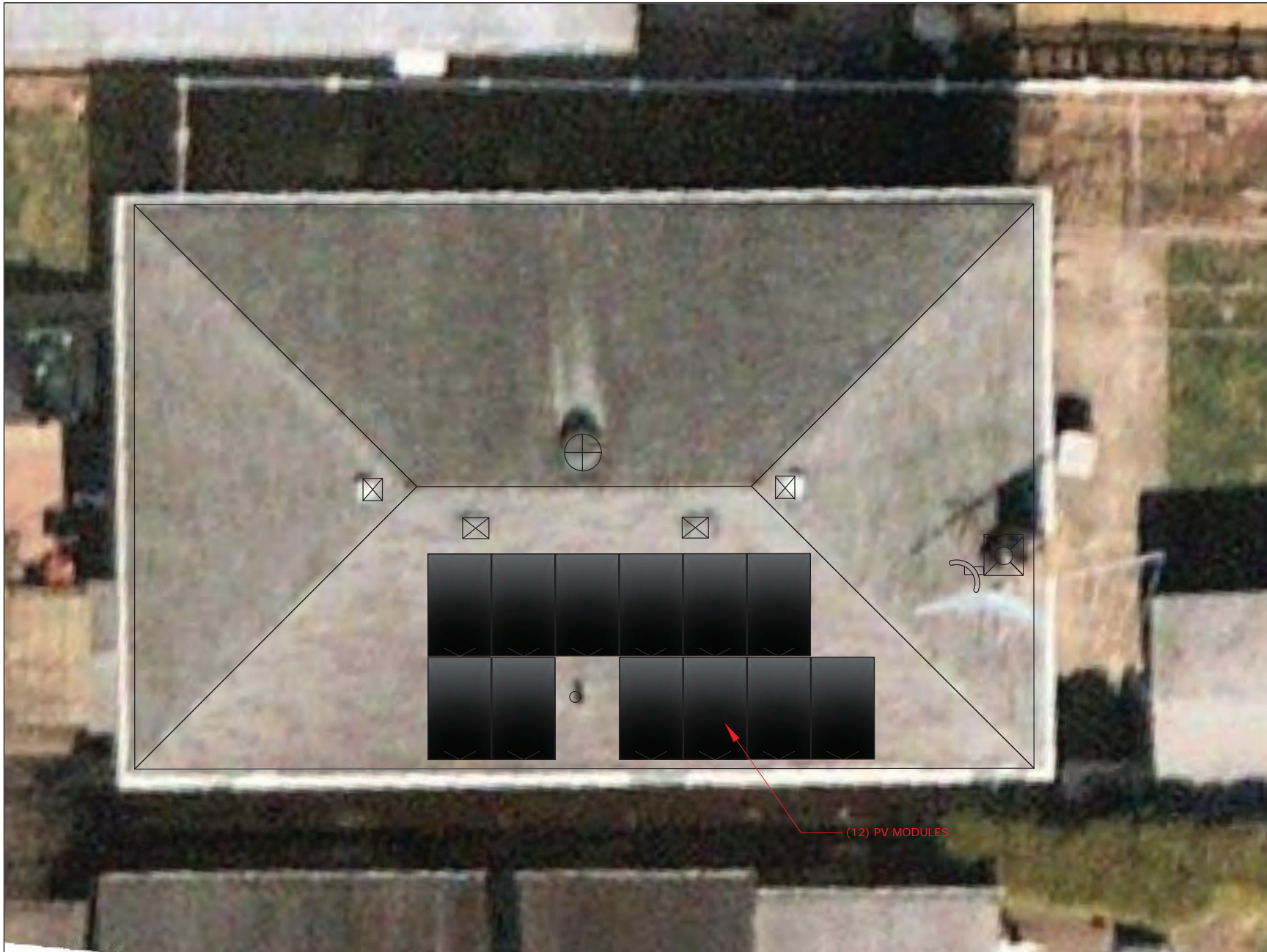
**PROJECT INFORMATION**

INITIAL	DATE: 12/18/2024	DESIGNER: SR
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

**SUPERIMPOSED PHOTO**

**PV-8**





PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR  
 3096 HAMILTON BLVD. BUILDING B, S. PLAINFIELD, NJ  
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**PROFESSIONAL ENGINEERING**



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224  
 3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080  
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 19 DEPAN AVE  
 FLORAL PARK, NY 11001  
 5167244634

JURISDICTION: NASSAU  
 UTILITY: PSEGLI  
 UTILITY ACCT #:  
 UTILITY METER #:

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 ML-G10+ 410  
 (SAFE HARBOR MODULES: 0)  
 12 INVERTERS: ENPHASE  
 Q8HC-72-M-DOM-US

**PROJECT INFORMATION**

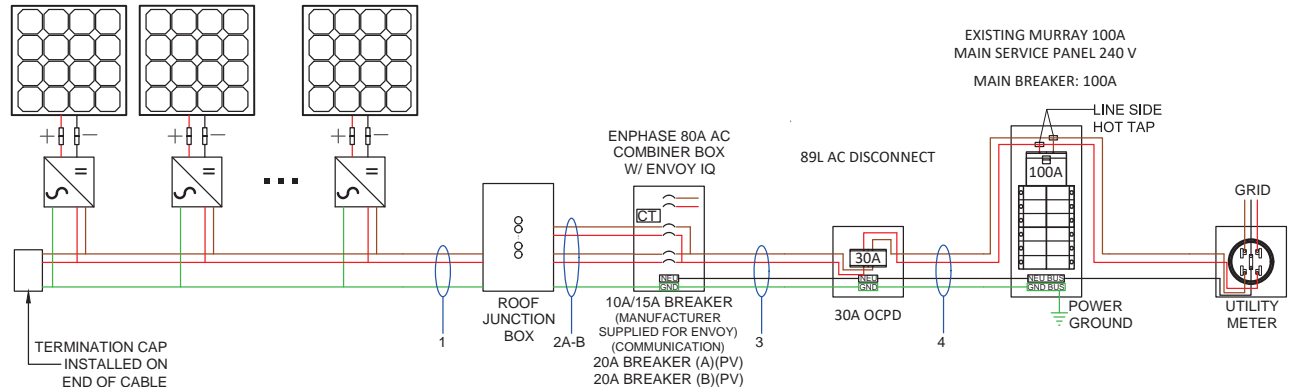
INITIAL	DATE: 12/18/2024	DESIGNER: SR
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**SUPERIMPOSED PANELS**

**PV-9**

12 HANWHA Q.PEAK DUO BLK ML-G10+ 410 410W MODULES PAIRED WITH  
12 ENPHASE IQ8HC-72-M-DOM-US MICRO-INVERTERS

BRANCH CIRCUIT A  
6 MICRO-INVERTERS  
BRANCH CIRCUIT B  
6 MICRO-INVERTERS



**ELECTRICAL NOTES:**

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C).
3. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS WILL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN.
4. THIS SYSTEM COMPLIES WITH NEC 2017 89L LESS THAN 10FT TO THE MAIN BREAKER/METER.

5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C UNLESS NOTED
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATA SHEET
8. GROUNDING CONDUCTOR RUN WITH PHASE CONDUCTOR IN THE SAME CONDUIT.
9. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPILES WITH 690.6- NO DC. DISCONNECT AND ASSOCIATED DC CABLING ARE REQUIRED.

10. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C)(3). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED AS PER 690.52.
11. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS - BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS 690.6.
12. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES SHALL COMPLY WITH 250.64.
13. NO TERMINALS WILL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.6, 690.17.
14. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B) AS PERMITTED BY 230.82(6)



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**PROFESSIONAL ENGINEERING**



MIMA A. MAKAR, P.E. NY LICENSE # 104468 (732)-902-6224  
3096B HAMILTON BLVD SOUTH PLAINFIELD, NJ 07080  
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**ELECTRICIAN**

PRO CUSTOM SOLAR DBA MOMENTUM SOLAR  
JEFFREY MARINELLO, (732) 902-6224  
3096 HAMILTON BLVD. BUILDING B, SOUTH PLAINFIELD, NJ 07080

**CUSTOMER INFORMATION**

THOMAS THOTTAM - MS162530  
19 DEPAN AVE  
FLORAL PARK, NY 11001  
5167244634

JURISDICTION: NASSAU  
UTILITY: PSE&I  
UTILITY ACCT #:  
UTILITY METER #:

**PV SYSTEM INFORMATION**

SYSTEM SIZE (DC ): 4.92 KW  
SYSTEM SIZE (AC ): 4.56 KVA  
12 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 410  
SAFE HARBOR MODULES: 0)  
12 INVERTERS: ENPHASE Q8HC-72-M-DOM-US

**PROJECT INFORMATION**

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**ELECTRICAL**


**PV-10**

Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	6	1.58	1.25	11.85	12 AWG	Trunk Cable
2A	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	6	1.58	1.25	11.85	08 AWG	THWN-2
2B	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	6	1.58	1.25	11.85	08 AWG	THWN-2
3	3/4" PVC	3	10 AWG	THWN-2	75°C	35	0.96	1	33.60	12	1.58	1.25	23.70	08 AWG	THWN-2
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	12	1.58	1.25	23.70	08 AWG	THWN-2




TAG	LABEL	QUANTITY	LOCATION	NOTE
(A)		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'
(B)		1	COMBINER BOX	1 AT ANY COMBINER BOX
(C)		1	JUNCTION BOX	1 AT ANY JUNCTION BOX
(D)		1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL
(E)		1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD
(F)		1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD
(G)		1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD
(H)		1	AC CURRENT PV MODULES	


EXAMPLES




(A)




(B)




(C)




(D)



(E)




(G) BACKFEED



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**EQUIPMENT LABELS**

**PV-11**

# Q.PEAK DUO BLK ML-G10+ SERIES



385 - 410 Wp | 132 Cells  
20.9% Maximum Module Efficiency

MODEL Q.PEAK DUO BLK ML-G10+



6 busbar  
cell technology

12 busbar  
cell technology



## Breaking the 20% efficiency barrier

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



## A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>1</sup>.



## Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology<sup>2</sup> and Hot-Spot Protect.



## Extreme weather rating

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



## Innovative all-weather technology

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



## The most thorough testing programme in the industry

Qcells 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.

<sup>1</sup> See data sheet on rear for further information.

<sup>2</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)

### The ideal solution for:



Rooftop arrays on residential buildings

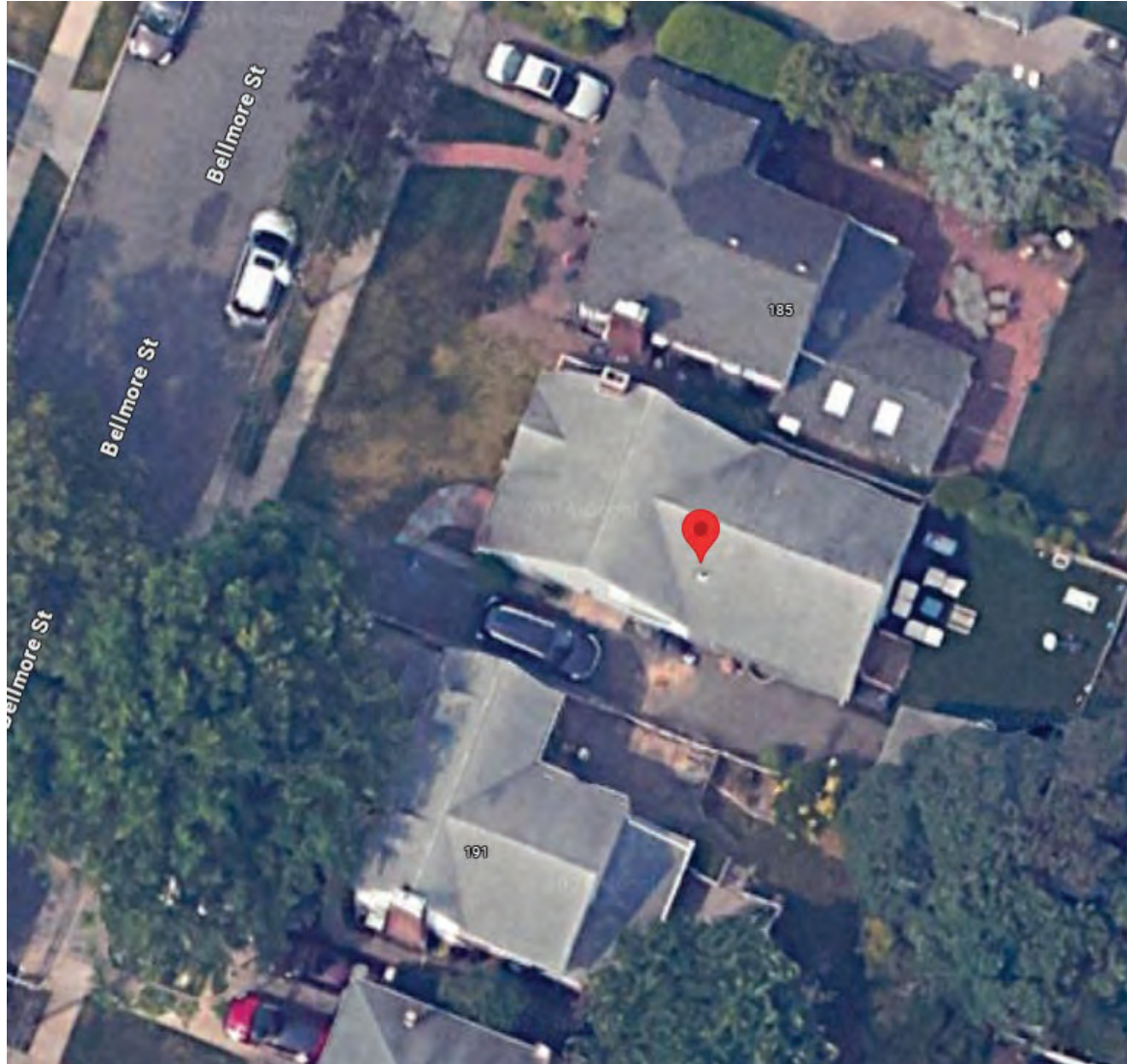


Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
4	8:30 p.m.	189	Bellmore Street	Second Story Addition and Portico	Jason & Cynthia Urbanski	Christopher Dowdell





# 189 Bellmore Street (Aerial View)















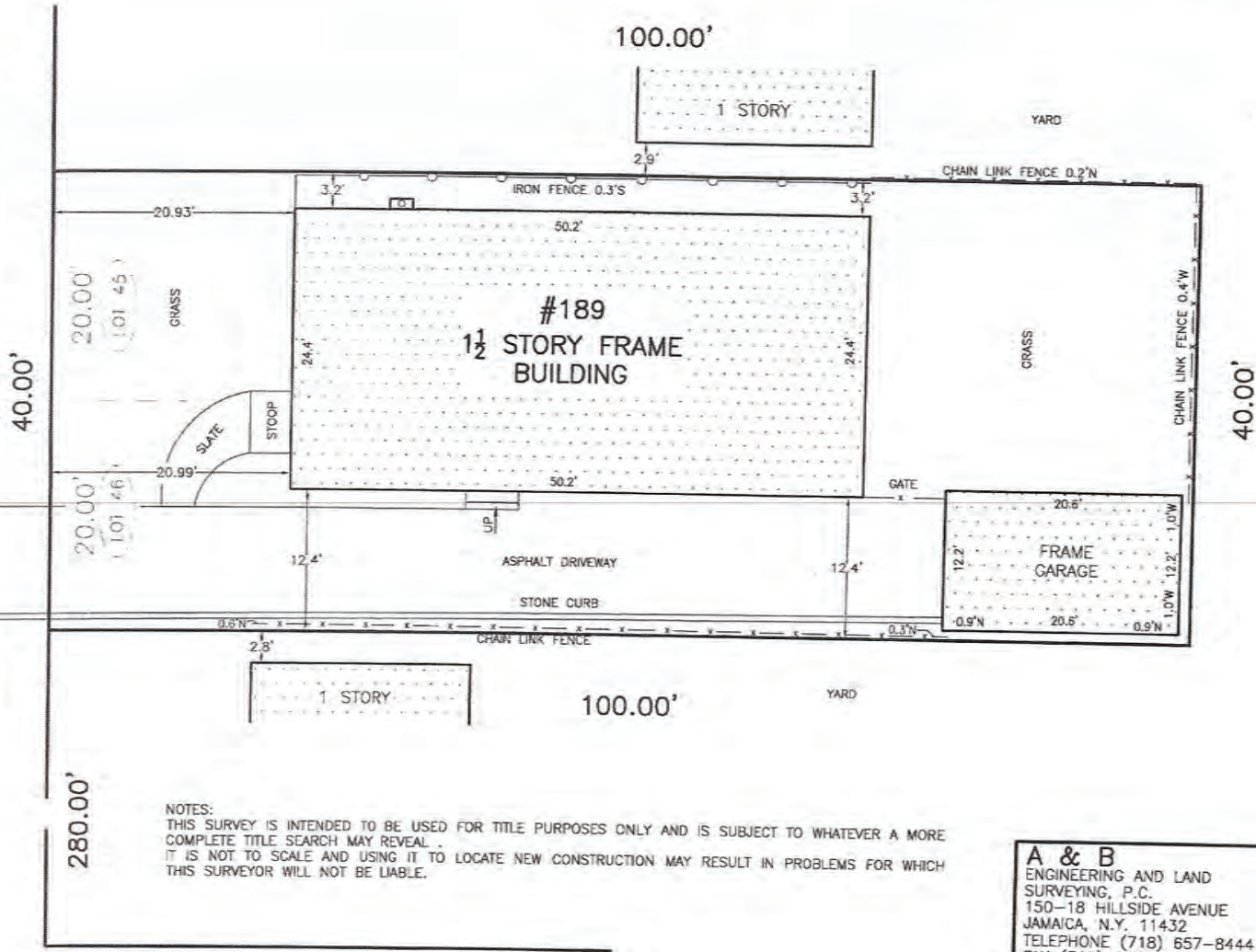






BELMONT STREET

CONCRETE CURB  
GRASS  
CONCRETE SIDEWALK  
DROP CURB



SCALE 1" = 10'

280.00'

NOTES:  
THIS SURVEY IS INTENDED TO BE USED FOR TITLE PURPOSES ONLY AND IS SUBJECT TO WHATEVER A MORE COMPLETE TITLE SEARCH MAY REVEAL.  
IT IS NOT TO SCALE AND USING IT TO LOCATE NEW CONSTRUCTION MAY RESULT IN PROBLEMS FOR WHICH THIS SURVEYOR WILL NOT BE LIABLE.

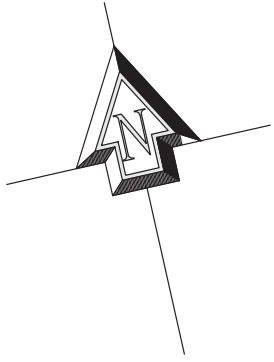
MILLER AVENUE

TITLE No. CERTIFIED TO:

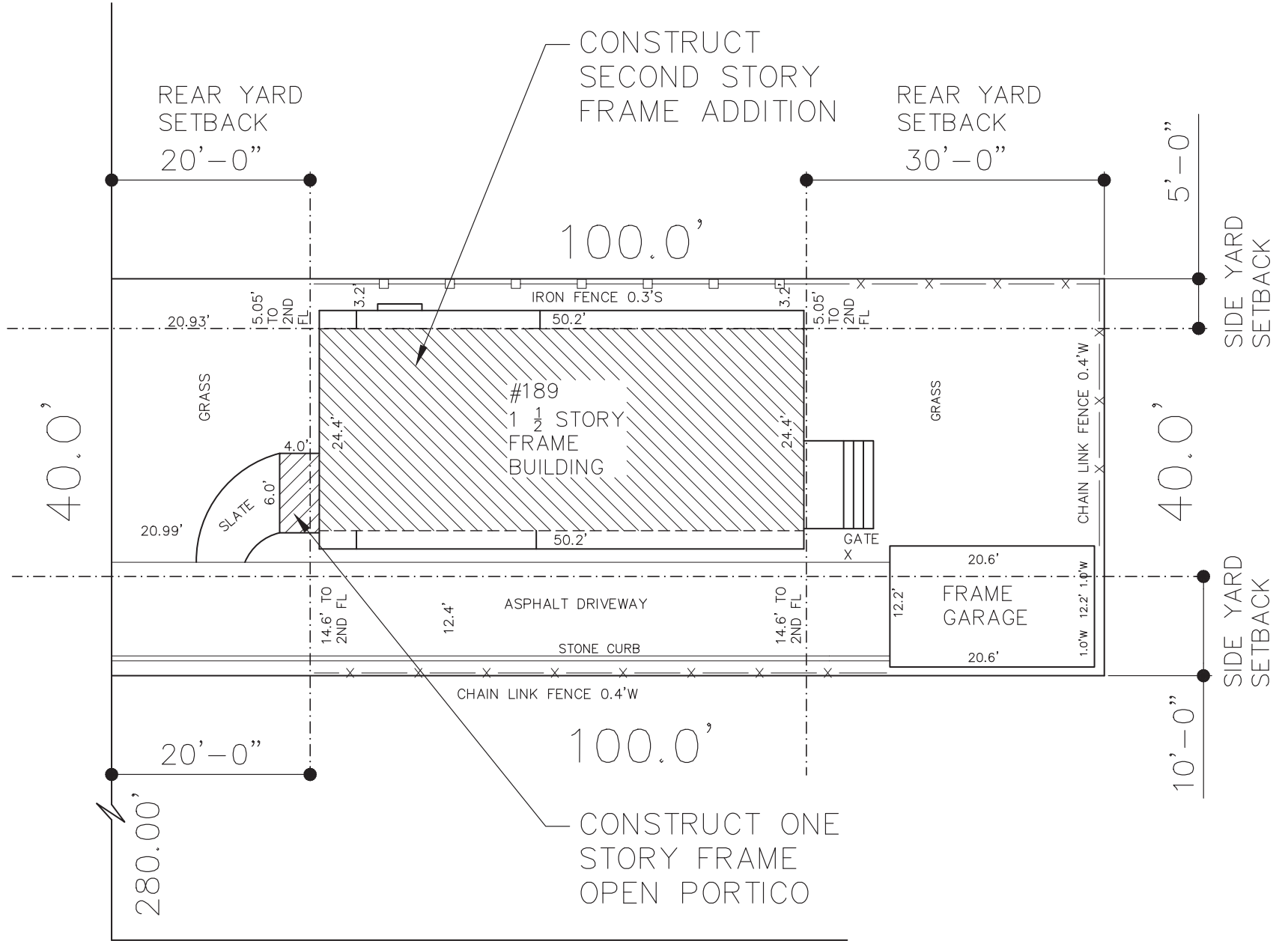
**A & B**  
ENGINEERING AND LAND SURVEYING, P.C.  
150-18 HILLSIDE AVENUE  
JAMAICA, N.Y. 11432  
TELEPHONE (718) 657-8444  
FAX (718) 657-8555  
EMAIL ABLANDSURVEY@GMAIL.COM  
**SURVEY No.8253**  
TOWN OF HEMPSTEAD  
COUNTY OF NASSAU  
STATE OF NEW YORK  
TAX MAP FILED MAP  
SECTION 32 SECTION  
BLOCK 213 BLOCK  
LOT 45 LOT

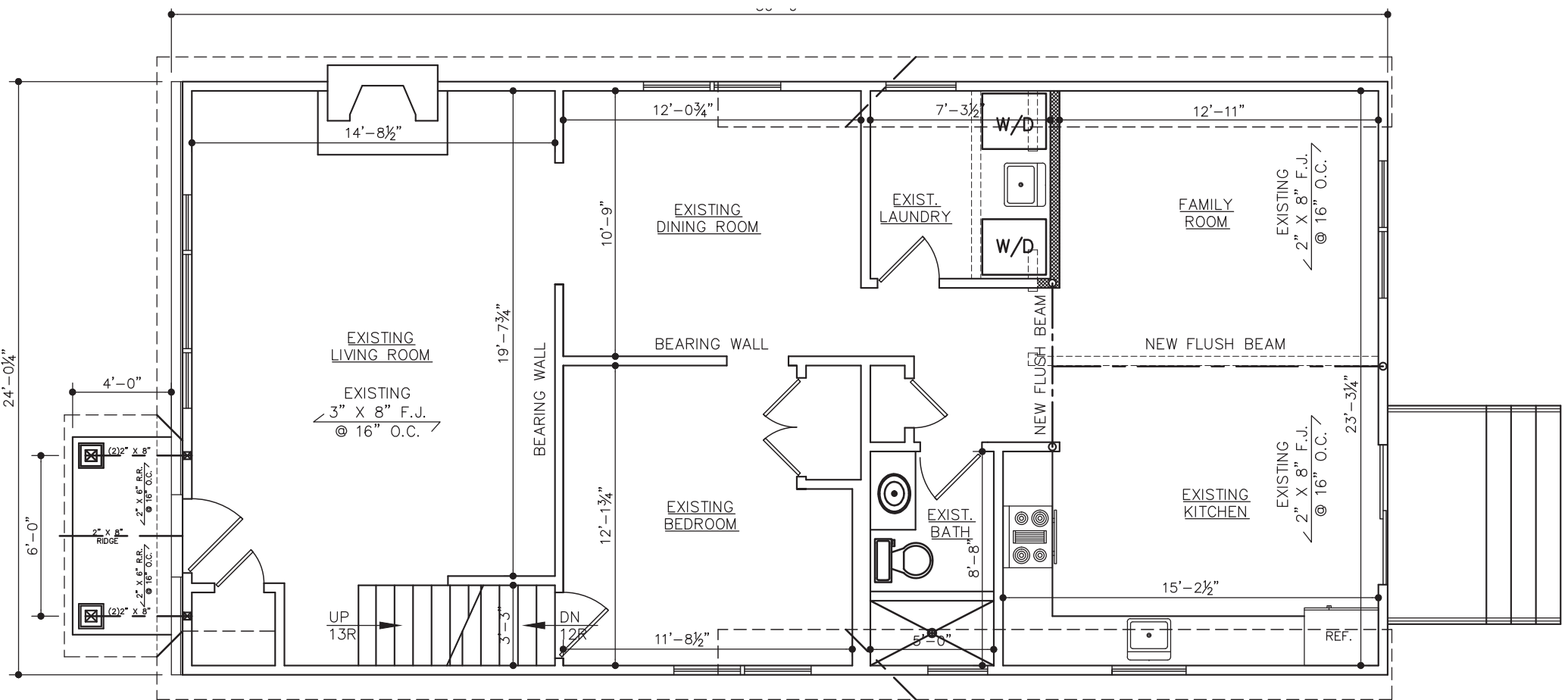
DATE: APRIL 20th, 2021

DAVID D. ARABI, P.E.  
NEW YORK LICENSE 06735-1  
PAUL BARYLSKI, L.S.  
NEW YORK LICENSE 050782



BELLMORE STREET



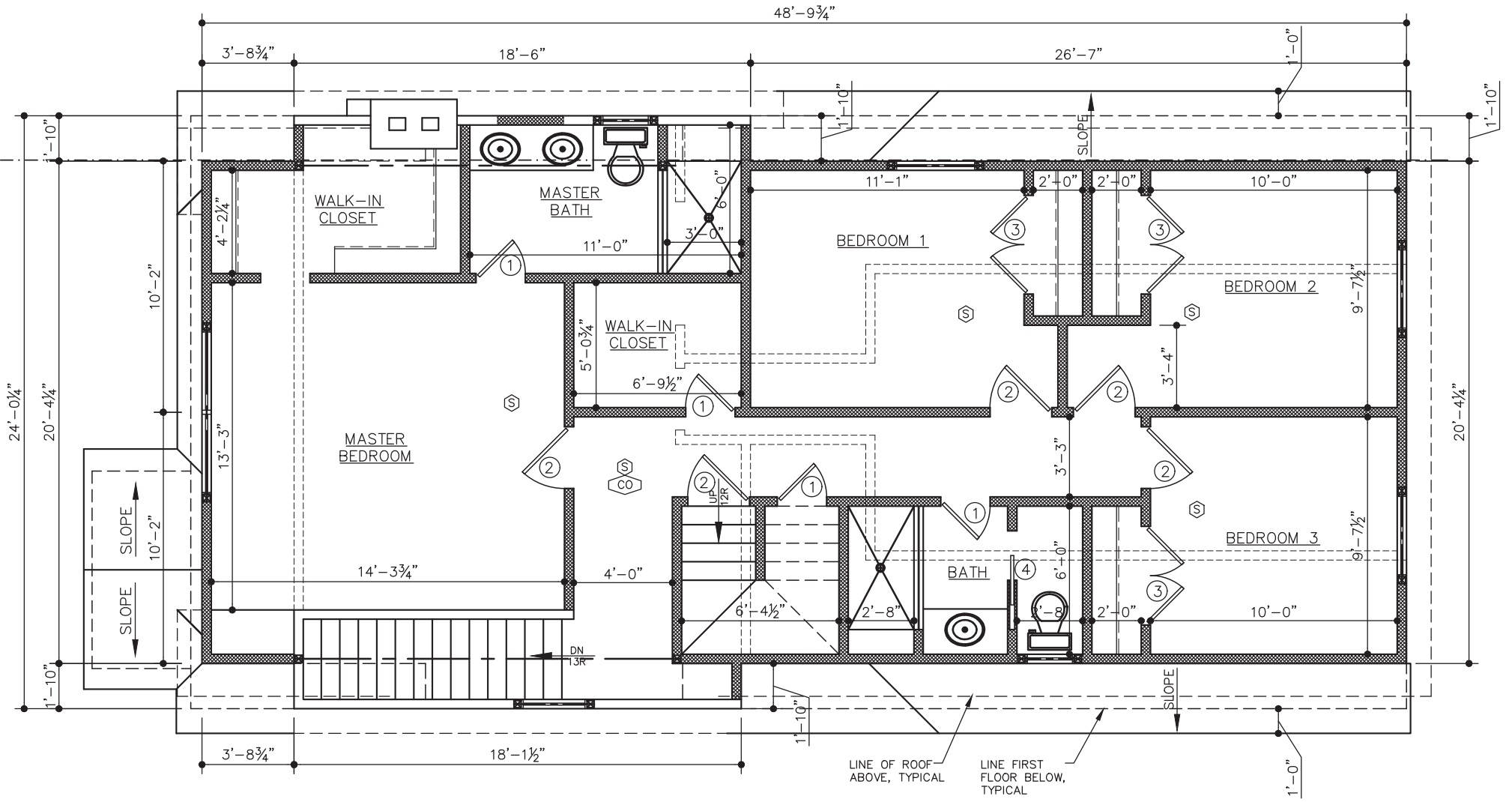


FIRST FLOOR PLAN

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SCALE: 1/4" = 1'-0"





# SECOND FLOOR PLAN

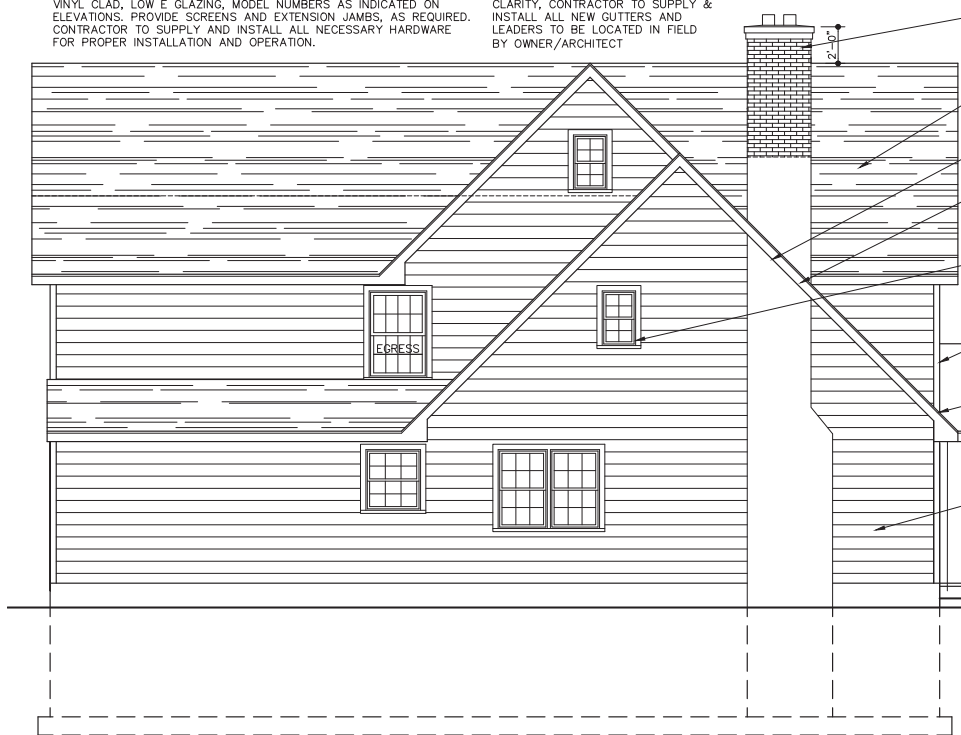
SCALE: 1/4" = 1'-0"

WALL SCHEDULE	
	EXISTING



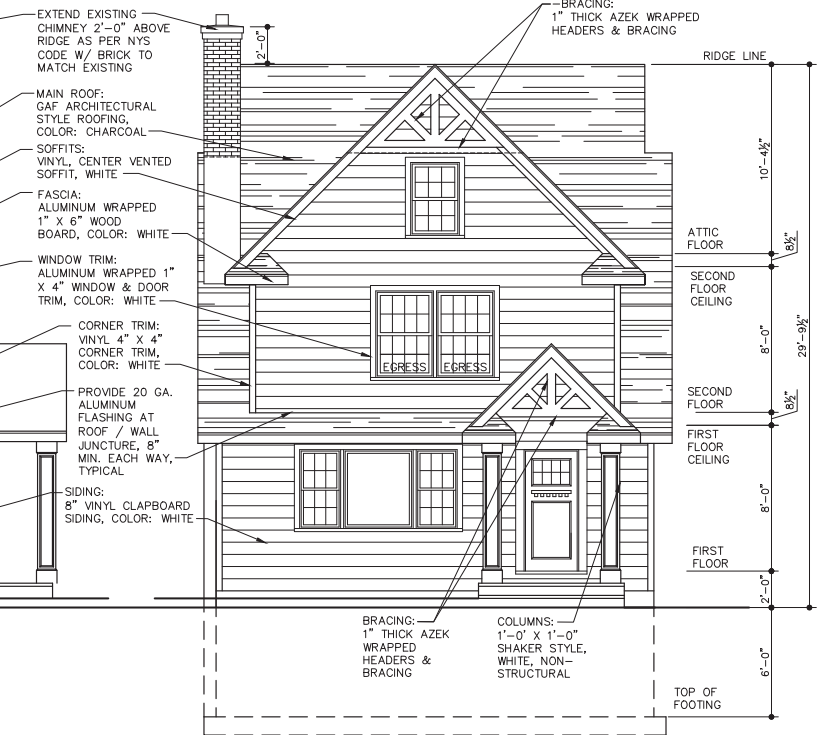
**WINDOW NOTE:**  
 ALL NEW WINDOWS TO BE BY 'ANDERSEN' OR APPROVED EQUAL, VINYL CLAD, LOW E GLAZING, MODEL NUMBERS AS INDICATED ON ELEVATIONS. PROVIDE SCREENS AND EXTENSION JAMBS, AS REQUIRED. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE FOR PROPER INSTALLATION AND OPERATION.

**GUTTER NOTE:**  
 LEADERS HAVE BEEN OMITTED FOR CLARITY, CONTRACTOR TO SUPPLY & INSTALL ALL NEW GUTTERS AND LEADERS TO BE LOCATED IN FIELD BY OWNER/ARCHITECT



NORTH ELEVATION

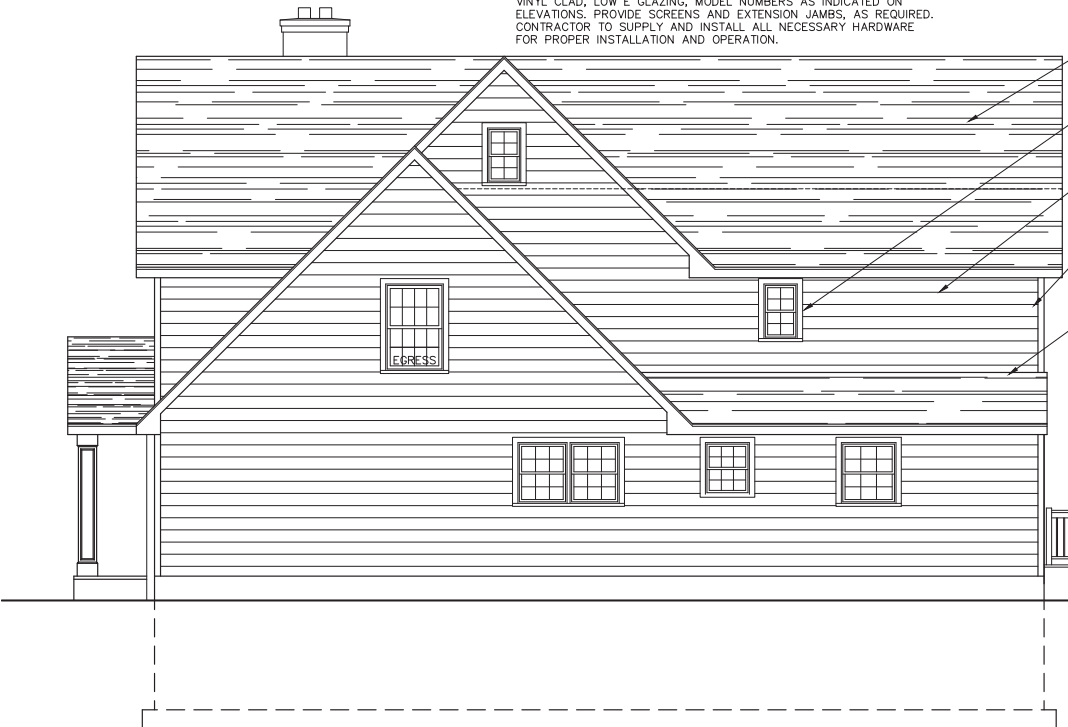
SCALE: 1/4" = 1'-0"



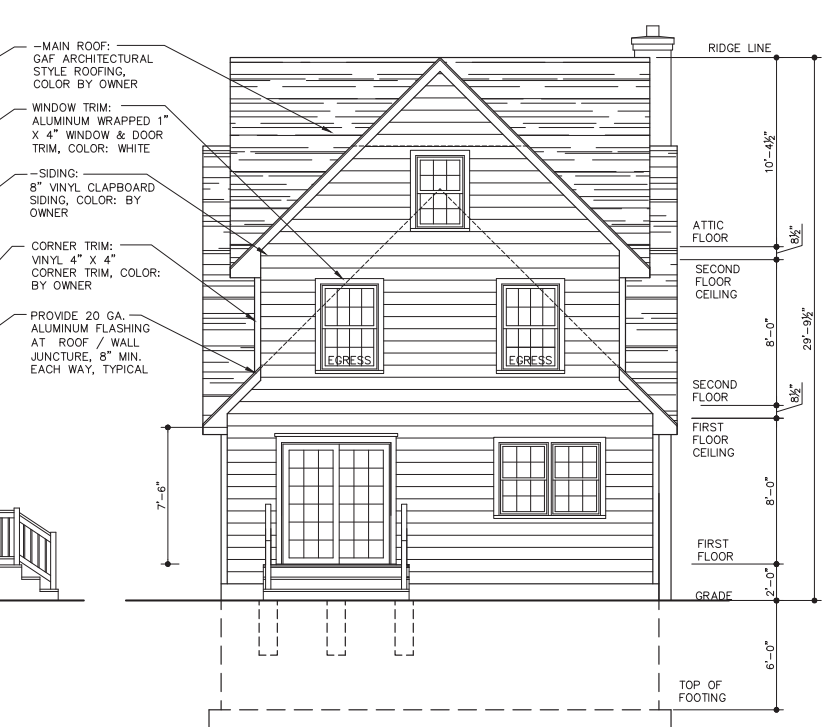
WEST ELEVATION "A"

SCALE: 1/4" = 1'-0"

**WINDOW NOTE:**  
 ALL NEW WINDOWS TO BE BY 'ANDERSEN' OR APPROVED EQUAL, VINYL CLAD, LOW E GLAZING, MODEL NUMBERS AS INDICATED ON ELEVATIONS. PROVIDE SCREENS AND EXTENSION JAMBS, AS REQUIRED. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE FOR PROPER INSTALLATION AND OPERATION.



SOUTH ELEVATION

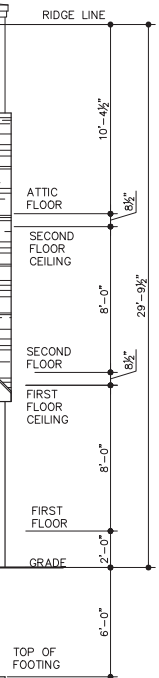
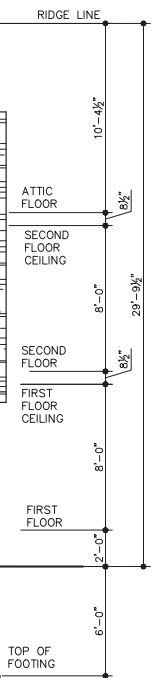


EAST ELEVATION

- MAIN ROOF: GAF ARCHITECTURAL STYLE ROOFING, COLOR BY OWNER
- WINDOW TRIM: ALUMINUM WRAPPED 1" X 4" WINDOW & DOOR TRIM, COLOR: WHITE
- SIDING: 8" VINYL CLAPBOARD SIDING, COLOR: BY OWNER
- CORNER TRIM: VINYL 4" X 4" CORNER TRIM, COLOR: BY OWNER
- PROVIDE 20 GA. ALUMINUM FLASHING AT ROOF / WALL JUNCTURE, 8" MIN. EACH WAY, TYPICAL

- EXTEND EXISTING CHIMNEY 2'-0" ABOVE RIDGE AS PER NYS CODE W/ BRICK TO MATCH EXISTING
- MAIN ROOF: GAF ARCHITECTURAL STYLE ROOFING, COLOR: CHARCOAL
- SOFFITS: VINYL, CENTER VENTED SOFFIT, WHITE
- FASCIA: ALUMINUM WRAPPED 1" X 6" WOOD BOARD, COLOR: WHITE
- WINDOW TRIM: ALUMINUM WRAPPED 1" X 4" WINDOW & DOOR TRIM, COLOR: WHITE
- CORNER TRIM: VINYL 4" X 4" CORNER TRIM, COLOR: WHITE
- PROVIDE 20 GA. ALUMINUM FLASHING AT ROOF / WALL JUNCTURE, 8" MIN. EACH WAY, TYPICAL
- SIDING: 8" VINYL CLAPBOARD SIDING, COLOR: WHITE

- BRACING: 1" THICK AZEK WRAPPED HEADERS & BRACING
- BRACING: 1" THICK AZEK WRAPPED HEADERS & BRACING
- COLUMNS: 1'-0" X 1'-0" SHAKER STYLE, WHITE, NON-STRUCTURAL



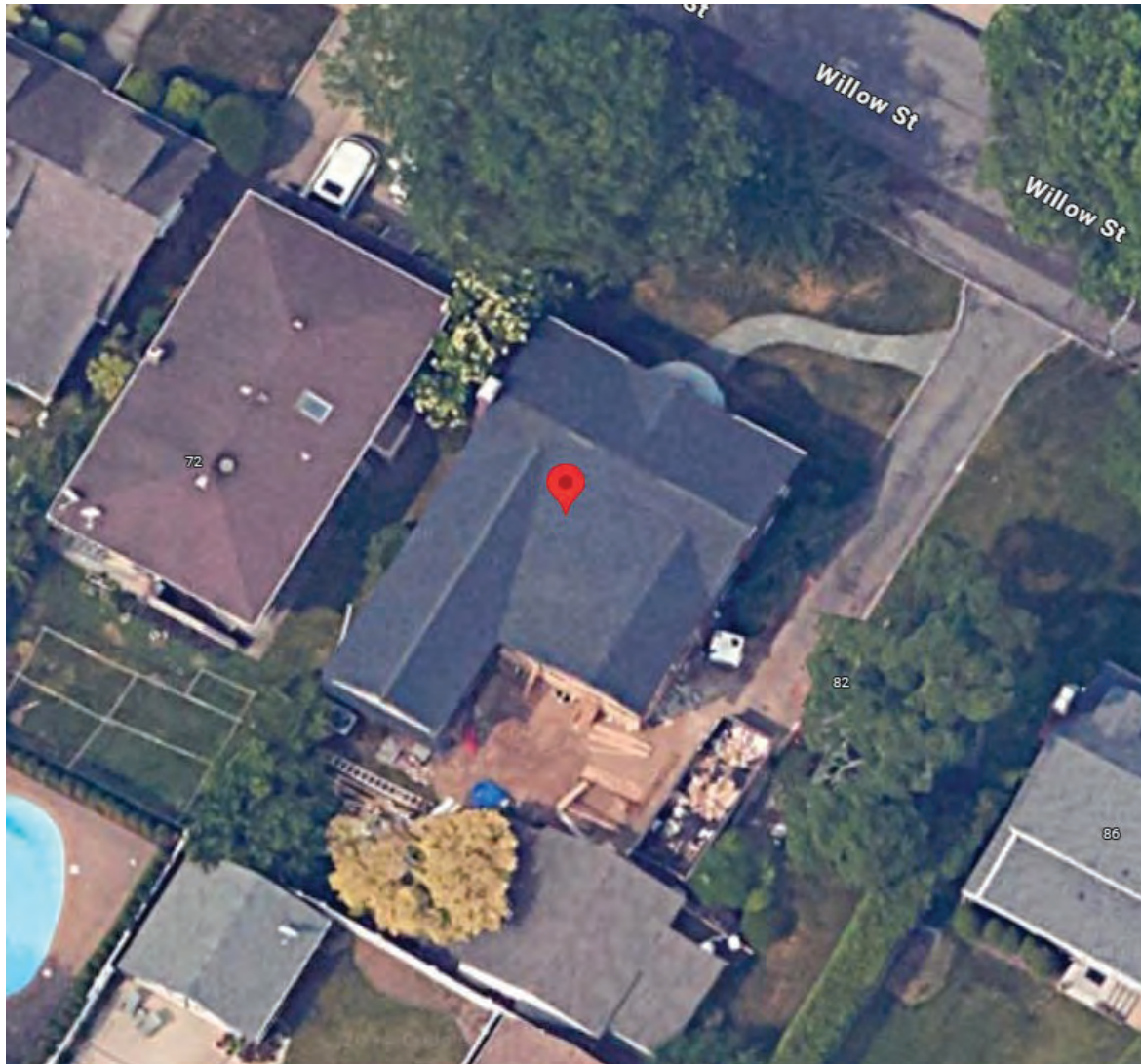


Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
5	8:40 p.m.	80	Willow Street	Two Car Garage and Mud Room Addition	Laura Pape	Demetris Demetriou





## 80 Willow Street (Aerial View)





FRONT VIEW



LEFT SIDE VIEW

LOCATION AREA OF  
PROPOSED ADDITION

80 WILLOW STREET





LEFT & REAR VIEW



REAR VIEW

LOCATION AREA OF  
PROPOSED ADDITION

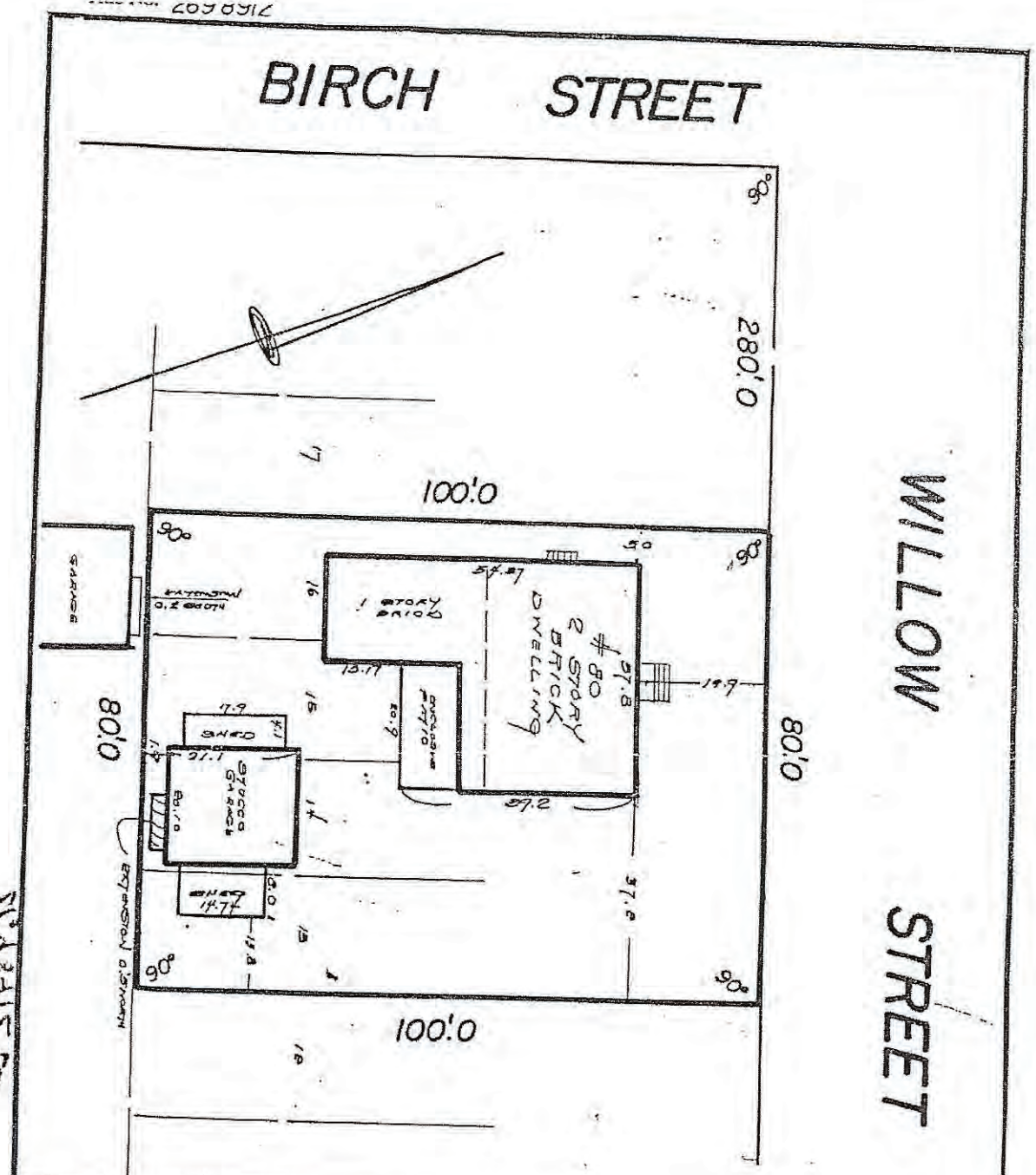
80 WILLOW STREET





80 WILLOW STREET & ADJACENT NEIGHBORS





P. O. BOX 146 OLD WESTBURY N.Y. 11568 516-626-9580	<i>Robert Friedel</i> LAND SURVEYOR LIC. NO. 30200	2111 MOTT AVE. FAR ROCKAWAY N.Y. 11691 212-327-0027
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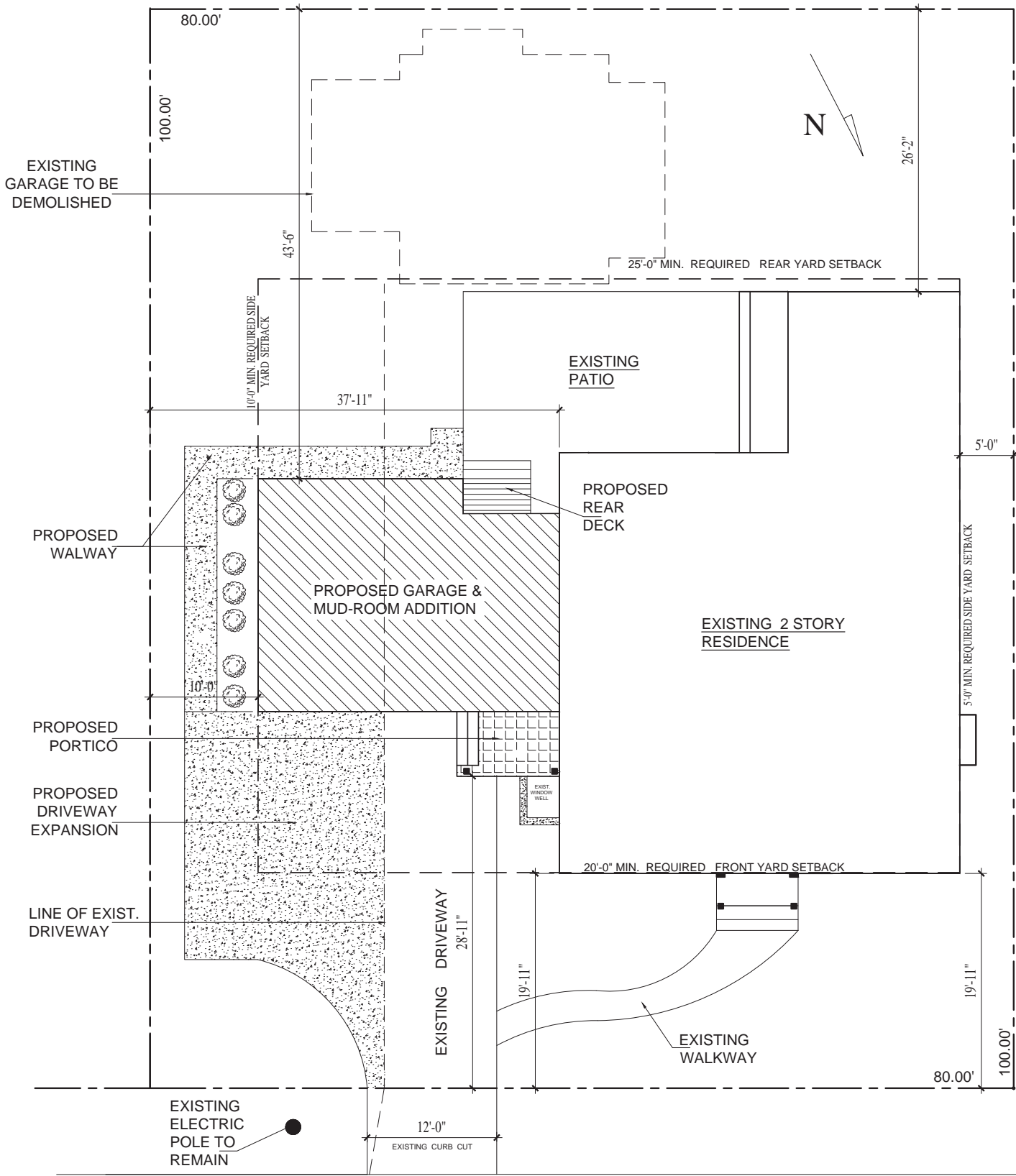
Lot. 13, 14, 15, 16  
 Block. 28  
 Map of. PROPERTY AT FLORAL PARK  
 Location. FLORAL PARK NASSAU COUNTY NEW YORK  
 Guaranteed to. THE TITLE GUARANTEE CO.  
METROPOLITAN SAVINGS BANK  
 Date. 1-31-77

*R. Friedel*

HOWARD BUTTON CO., N. Y. C.

FIRST AMERICAN TITLE INSURANCE  
 COMPANY OF NEW YORK  
 TITLE # 122-N-8784





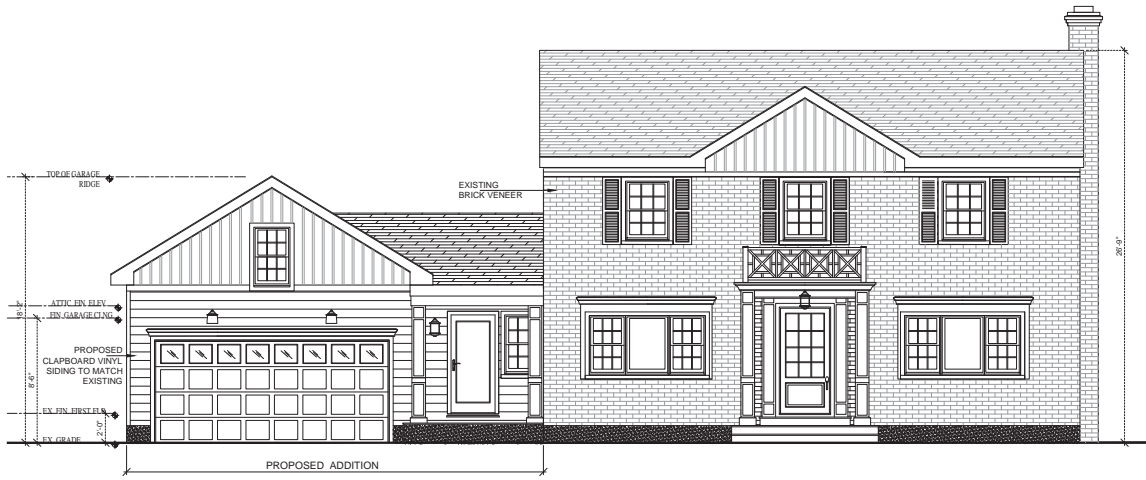
# WILLOW AVENUE

## SITE PLAN

SCALE: 1/8" = 1'-0"

SITE PLAN INFORMATION TAKEN FROM SURVEY DRAWN  
by LIC. SURVEYOR ROBERT FRIEDEL, DATED: 1-31-1977

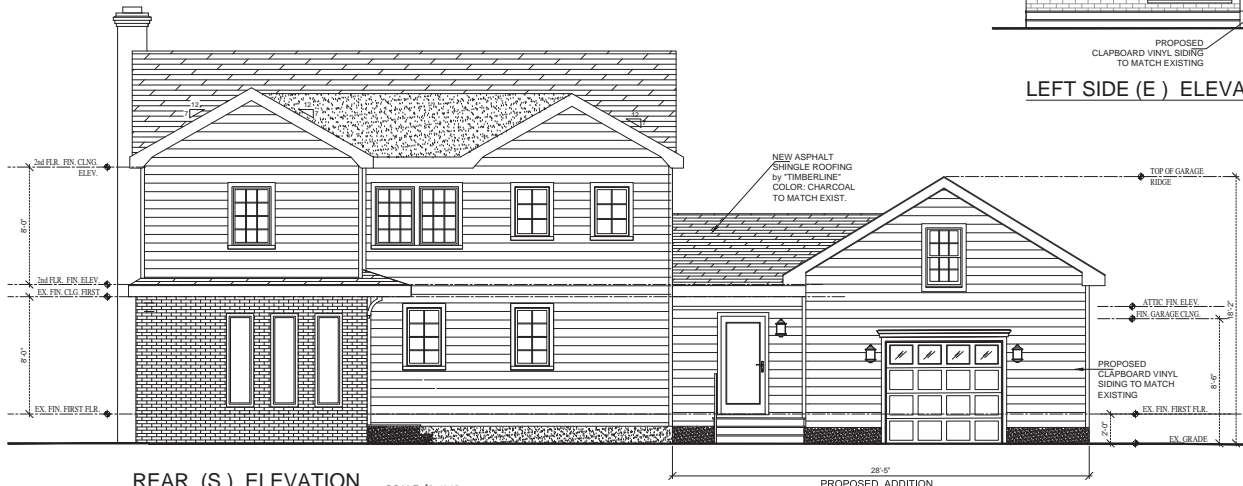




FRONT (N) ELEVATION SCALE: 1/4"=1'-0"



LEFT SIDE (E) ELEVATION SCALE: 1/4"=1'-0"



REAR (S) ELEVATION SCALE: 1/4"=1'-0"

DATE	REMARKS

NEMERI DESIGN GROUP  
 Consulting Structural Engineers  
 nemerjdesign.com/usa



DEMETRIS DEMETRIOU R.A.  
 5 GERARDUM AVE., FLORAL PARK, NY 11001  
 914.671.9907  
 ddemarchitect@gmail.com

**PAPE RESIDENCE**  
 80 WILLOW STREET., FLORAL PARK, NY 11001  
 ATTACHED GARAGE &  
 MUD ROOM ADDITION  
 SECTION#2, BLOCK#510, LOT#113, ZONE: R-1

DATE: 01-03-2025  
**A-3**





WINDOWS : VINYL CLAD- WOOD  
DOUBLE GLAZED, LOW "E"  
BY "ANDERSEN" or equal  
COLOR:WHITE



ROOFING : "TIMBELINE 20-YEAR  
color: CHARCOAL OR EQUAL



VINYL SIDING  
color: ANTIQUE PARCHMENT  
by " ALSIDE" or equal



FASCIA, TRIM, & POSTS  
by "AZEK" or equal



**Exterior MATERIAL**

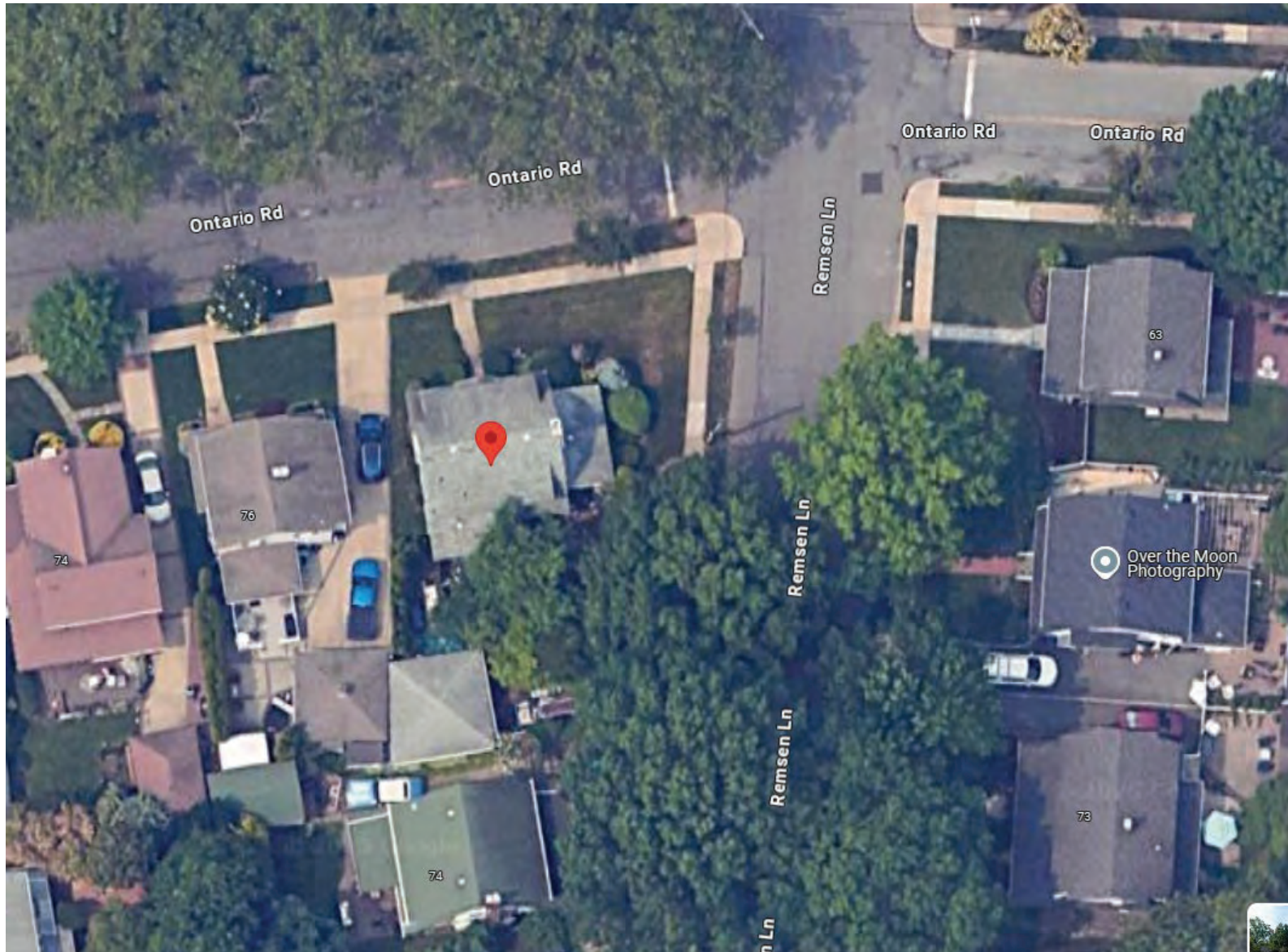
**80 WILLOW STREET**

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
6	8:50 p.m.	78	Ontario Road	Addition		Demetris Demetriou





# 78 Ontario Road (Aerial View)



Placeholder – drawings to come soon