AGENDA **RESCHEDULED MEETING** Municipal Services Committee July 20, 2020 6:45 P.M. – City Council Chambers

- 1. Call to Order & Roll Call
- 2. Establishment of Quorum
- 3. New Business
 - **a.** Ordinance Petitioner RETHINK Electric seeks approval to vary Section 5A-5-9-8(B)5 of the City Zoning Code for relief from the screening requirement for non-flush mounted solarpanels at 8131 Lemont Road in Darien, Illinois.
 - **b. Minutes June 15, 2020** Municipal Services Committee
- 4. Director's Report
- 5. Next scheduled meeting Monday, August 24, 2020
- 6. Adjournment



AGENDA MEMO MUNICIPAL SERVICES COMMITTEE July 20, 2020

Case

PZC 2020-06 8131 Lemont Road (Solar Panel Screening Variation)

Ordinance - see attached

Issue Statement

Petitioner RETHINK Electric seeks approval to vary Section 5A-5-9-8(B)5 of the City Zoning Code for relief from the screening requirement for non-flush mounted solar panels at 8131 Lemont Road in Darien, Illinois.

General Information

Petitioner: RETHINK Electric

850 North Central Avenue

Wood Dale, IL 60191

Owner: Safeguard Self Storage

3384 Peachtree Road, 4th Floor

Atlanta, GA 30326

Property Location / PIN#: 8131 Lemont Road / 09-32-106-034 Zoning / Land Use: Site: OR&I / Self-storage facility

North: OR&I / Office-warehouse and cell tower South: OR&I / Rockwell building and parking lot

East: OR&I / Office-warehouse

West: Woodridge (Zoned OR&I, currently single-family)

Comprehensive Plan: Office/Research/Industrial
Size of Subject Lot: 117,437 square feet, 2.69 acres

Transportation: Frontage to Lemont Road to both east (234') and north (430')

Zoning Provisions

Section 5A-5-9-8(B)5 / Solar Energy Systems, Building Mounted standards

Development History and Proposal

The Safeguard Self-Storage facility received approvals in 2002 and was constructed shortly thereafter. The building sits approximately 75 feet from the primary Lemont Road frontage, and 100 feet from the north road frontage. Several large deciduous trees help to screen the buildings height, which is 3 stories and approximately 40 feet. The building is unique in that there is no parapet wall at the cap of the building. Parapet walls typically extend higher than the roof, and are often constructed to screen various types of rooftop equipment.

The petitioner proposes to install a solar array in the flat roof of the building. Solar panels installed on a flat roof must be installed at an angle, and although not excessive in height, are approximately 14 inches off the roof at the highest point.

Section 5A-5-9-8(B)5 states "panels on a flat roof that are not flush-mounted must have a parapet or screening wall between the panels and the adjacent street and said parapet or screening wall must be at least as high as the panels." Non-Flush mounted panels are further defined as any panels that extend more than 6 inches above the roof.

As presented, at 14 inches in height and without parapet wall on the building to properly screen the panels, the installation cannot occur without a variation. The petitioner has provided a response to the variation standards in a justification narrative which is attached.

The petitioner states that the unique condition of the property is the overall height of the building in comparison to surrounding development, and that the panels will not be seen in close proximity to the building. Line-of-sign diagrams have been provided for discussion.

<u>Petitioner Documents</u> (attached to this memo)

- 1. Application, including variation justification
- 2. Plat of Survey
- 3. Site Plans
- 4. Solar Racking Plans
- 5. Line of Sight Drawings

Staff Documents (attached to this memo)

- 6. Location Map
- 7. Zoning Variation Decision Criteria

Staff Plan Review

The City's solar code was revised in 2018 with the intention of removing obstructions to solar arrays when meeting certain conditions. Although the intent of the code was to prevent flat-roofed buildings, which are primarily commercial and office buildings, from installing visible solar panels and degrading the quality of a building's architectural elevation, there were no exceptions written in the code when the impact would be unseen or minimal. Staff is supportive of the request based on the information as presented.

Findings of Fact

The Petitioner was asked to provide evidence or finding-of-fact that would support the requested variation, especially in terms of the pertinent variation criteria. Staff notes relevant criteria below:

- Unique Circumstances This building was constructed in and industrial/office area with large setbacks and without a parapet screen wall.
- Character of the Locality Although the roof has no parapet to screen the panels, the building's height will eliminate or minimize any visual effect to the adjacent properties.
- Smallest Solution Installation of a screen or parapet wall will require significant improvements to the roof structure.

PZC 6/17/2020

The Planning and Zoning Commission reviewed this petition at their public hearing on June 17. The petitioner presented the variation request and answered questions on overall visibility and

impacts on the surroundings. No residents were in attendance regarding the petition. To address future precedent and the fact that the recently adopted code did not make exception to visibility, the motion for approval was specific to note that these solar panels could not be viewed from the street. The PZC made findings that the petition satisfied variation justifications and voted 7-0 to recommend approval of the request.

Meeting Schedule

The Municipal Services Committee will discuss this item for recommendation on July 20, just prior to the City Council meeting on July 20, where the item will be considered for a final vote.





ZONING APPLICATION

CITY OF DARIEN

1702 Plainfield Road, Darien, R. 60561 www.darienil.ua 630-852-5000

CONTACT	INFORMATION	۱
CORA LACA	HAS ALGEBRAS SIGNA	4

purposes therein set forth.

Garrison Riegel	Robert Lebrier			
Applicant's Name	Owner's Name			
850 N. Central Ave. Wood Dale, IL 60191	3384 Peachtree Rd 4th Floor, Atlanta GA 30326			
Address, City, State, Zip Code	Address, City, State, Zip Code			
630-998-3629	215-335-1927			
Telephone	Telephone			
Garrison@rethinkelectric.com	Rlabrier@safeguardit.com			
Email	Email			
PROPERTY INFORMATION				
Safeguard Storage - 8131 S. Lemont Rd. Darlen,	IL 60561 09-32-106-03/5			
Property address	PIN Number(s)			
Commercial, Property Class !	Commercial Building, Storage Units			
Zoning District	Current Land Use(s)			
(Attach adเลียงกล) ให้formation per the Submittal Checklist.)				
REQUEST				
Brief description of the zoning approval requested. (Contact	the City Planner for guidance)			
We request a Variance from this statement: Panels on a flat roof that are a and the <u>adjacent street and said parapet or accoming wall must be at lens</u> . We request a Variance because the proposed solar system will not be see This particular racking plus modules (collectors) only reaches a height of that roof upon which we are installing is a 35(ft) 3 story building that has no west corner of the building, most notably a gas pipe and a curb incumbed of from ground level. Additionally, the solar modules (collectors) are set back	d as blok so the name			
Property and the second	The second secon			
As Notary Public, in and for DuPage County in Illinois, I do hereby o				
that Garcison Riego is personally lo				
by me to be the same person whose name is subscribed above and				
spreared before me this day in person and admountedged that the				
igned this document as their own free and voluntary act, for the	Hearing Date: 6 117 120 1			





Justification Narrative: City of Darien

This justification narrative is in regards to the PV solar array being proposed on top of the Safeguard Storage building located at 8131 Lemont Rd. Darien, IL. We are requesting that we are permitted to construct this solar array without adding a parapet wall on the perimeter of the building as written in the City of Darien's code.

The variance is being requested due to there being no net visual benefit to adding this parapet wall to shield the array from being seen. As it currently exists, there are no vantage points that allow the system to be seen from around the building or from neighbors' buildings. There are currently roof hatches and other HVAC equipment on the roof that are of similar or greater height than our proposed solar array, and those cannot be seen from the surrounding areas.

Hardship condition would be an undo financial cost burden on the building owner. Adding a parapet wall is a costly endeavor and may involve modifying the structure of the building. This cost may effectively kill the project because the cost would be too great for the project to bear. In addition, the building is owned by a larger franchise entity which has a specific marketing brand/color scheme/aesthetic, and adding this parapet wall may disrupt that exterior brand.

As previously mentioned, there would be no impact on neighbors since it will not be possible to see the solar array from their vantage points. They will not know it is present.

2a. Not applicable

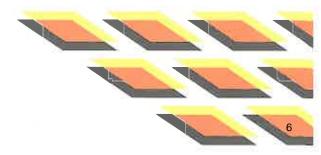
- **2b.** We are currently installing numerous systems around numerous different cities and towns in Illinois and this is the only jurisdiction that is making such a request. Modifying the exterior of the building in this way is unnecessary, especially in this case where there will be no net benefit for anyone.
- 2c. The location of this building is in an industrial park, so adding a solar array to the roof without a parapet will not affect the essential character of the locality. The roof is 3 stories off the ground.
- **3a.** As previously mentioned, if we were required to construct a parapet wall it may jeopardize the financial viability of installing solar at this store location.

3b. Not applicable

- **3c.** There is no other simple and efficient way to install solar on this roof, although modifying our solar design would still not comply with the code the way it is presently written.
- **3d.** Installing solar on top of this building will not cause any difficulty, hardship, burden or loss of value to neighboring buildings. Buildings are generously spaced, it is contained within an industrial park and the roof that the solar will be installed on is as high or higher than any other neighboring building.
- **3e.** Future variances pertaining to solar array isntallations can be considered on a case by case basis based on the unique visual circumstances and the surrounding area where the building exists.

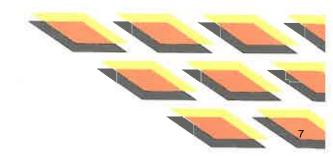
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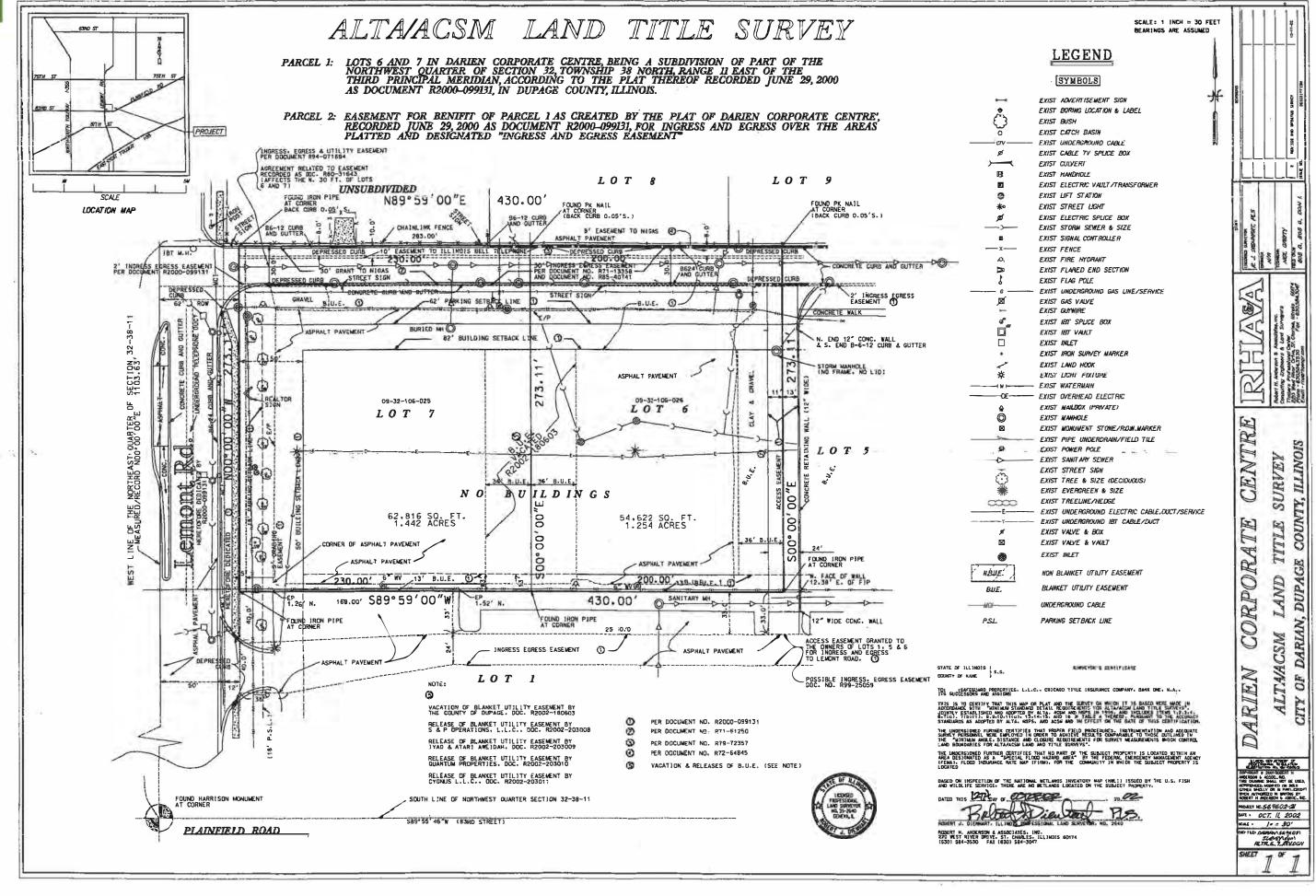
RethinkElectric.com





- 3f. The positive impact on making an exception to this code is to increase the adoption of clean, renewable and distributed energy in local communities such as Darien. If commercial solar projects are required to construct parapet walls on all buildings it will disincentivize building owners and solar installers from trying to build solar in your City.
- 3g. The only thing that this solar installation will do is increase the value of the building due to it having its own energy generation on site. The only other thing that could be considered is aesthetic, which does not apply here because it cannot be seen from any reasonable vantage point.





SCOPE OF WORK

SYSTEM SIZE: 110960W DC, 100000W AC MODULES: (304) ADANI ASM-7-PERC-395

INVERTER(S): (2) CHINT POWER SYSTEMS CPS SCASCKTL-DO/US-480 RACKING: PANELCLAW POLAR BEAR HDIII - 56" ROW-TO-ROW SPACING

ATTACHMENT: PANELCLAW BALLAST ATTACHWENT

WIND EXPOSURE: B WIND SPEED: 115mph GROUND SNOW LOAD: 25psf

OCCUPANCY: PRIMARY COMMERCIAL CONSTRUCTION TYPE: COMMERCIAL

2014 NEC, 2015 IBC, 2015 IFC

BUILDING HEIGHT: 40 FEET

PV SYSTEM SQUARE FOOTAGE: 6608.96 sqft

This approval is for compliance to the current adopted building codes for the proposed Solar System only. It is the owner's responsibility to ensure that the proposed installation of solar systems and associated equipment is on legally permitted structures. If determined by inspection staff the proposed solar system is installed on non-permitted structures, any required modifications needed for code compliance will be at the owner's expense

- LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR TO USE AND ACTIVATION OF ANY SOLAR PHOTOVOLTAIC INSTALLATION
- THIS PROJECT SHALL COMPLY WITH LOCAL ORDINANCES

GENERAL NOTES

- PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED
- ALL ELECTRICAL WORK SHOWN ON THESE PLANS WILL BE COMPLETED BY THE UNDERSIGNED
- ALL APPLICABLE PV EQUIPMENT LISTED AND COMPLIANT WITH UL2703, UL1741 AND UL1703
- THE SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM THE LOCAL
- JURISDICTION AND THE UTILITY IS OBTAINED

 THE SOLAR PHOTOVOLTAIC INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS
- IF THE EXISTING MAIN PANEL DOES NOT HAVE VERIFIABLE GROUNDING ELECTRODE, IT IS NECESSARY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE
- EACH MODULE WILL BE GROUNDED PER UL 2703 OR UL 1703 APPROVED METHOD USING THE SUPPLIED CONNECTION POINTS IDENTIFIED ON THE MODULE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS
- A LADDER SHALL BE IN PLACE FOR THE INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS
- ALL WORK SHALL COMPLY WITH 2014 NEC, 2015 IBC, 2015 IFC MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTION.
- PHOTOVOLTAIC SYSTEM WILL COMPLY WITH 2014 NEC.
- PHOTOVOLTAIC SYSTEM INVERTER IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER, AND SYSTEM COMPLIES WITH 699,35.
- MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.
- ELECTRICAL EQUIPMENT AND MATERIAL TO BE LISTED, LABELED, AND INSTALLED PER THE NEC, THE INSTALLATION STANDARDS/MANUFACTURER'S RECOMMENDATIONS AND IF REQUIRED A RECOGNIZED ELECTRICAL TESTING LABORATORY.
- CONDUITS EXPOSED TO SUNLIGHT ON ROOF SHALL BE LOCATED NOT LESS THAN 7/8" ABOVE ROOF SURFACE.

VICINITY MAP





PROJECT SITE

TABLE	E OF CONTENTS
PAGE#	DESCRIPTION
PV 1.0	COVER SHEET
PV 2.0-2.1	SITE PLAN
PV 2.2	ROOF PLAN
PV 3.0	STRING DIAGRAM
PV 4.0-4.1	ELECTRICAL
PV 5.0	WARNING LABELS



CONTRACTOR

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DEVELOPER

PIVOT ENERGY 1536 WYNKOOP ST., DENVER, CO 80202

PROJECT NAME & ADDRESS

SAFEGUARD STORAGE

8131 LEMONT RD DARIEN, IL 60516

PROFESSIONAL ENGINEER STAMP

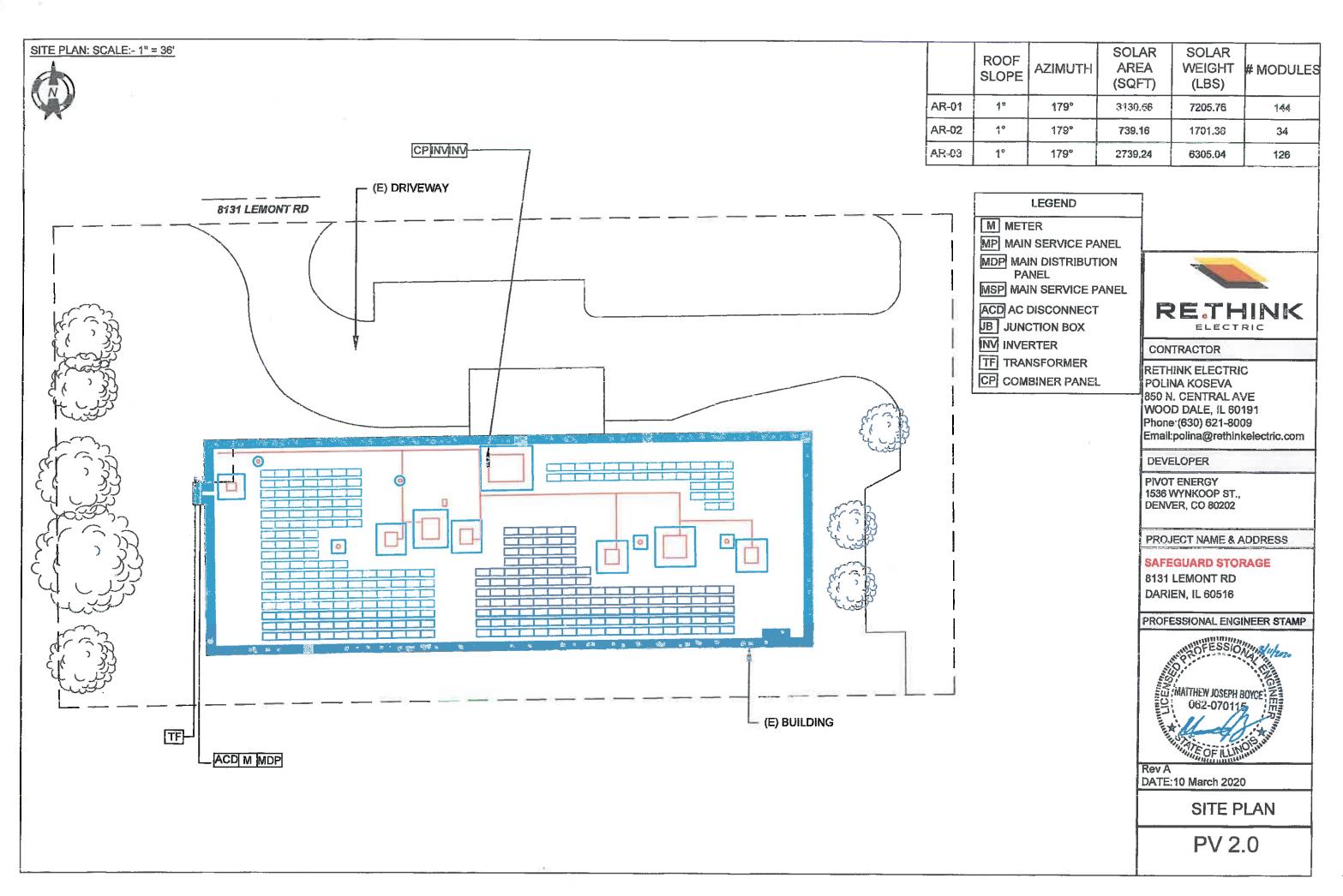


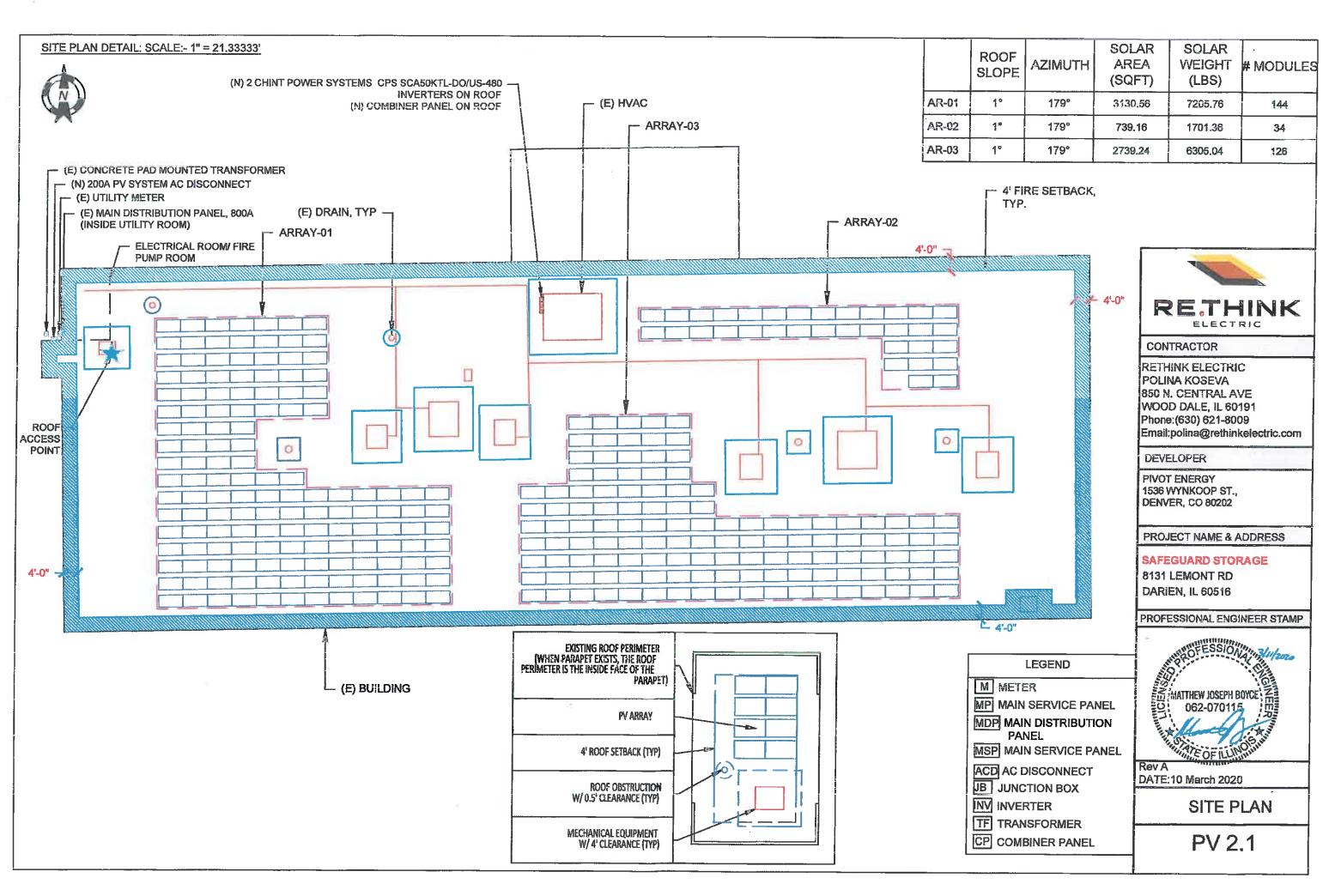
Rev A

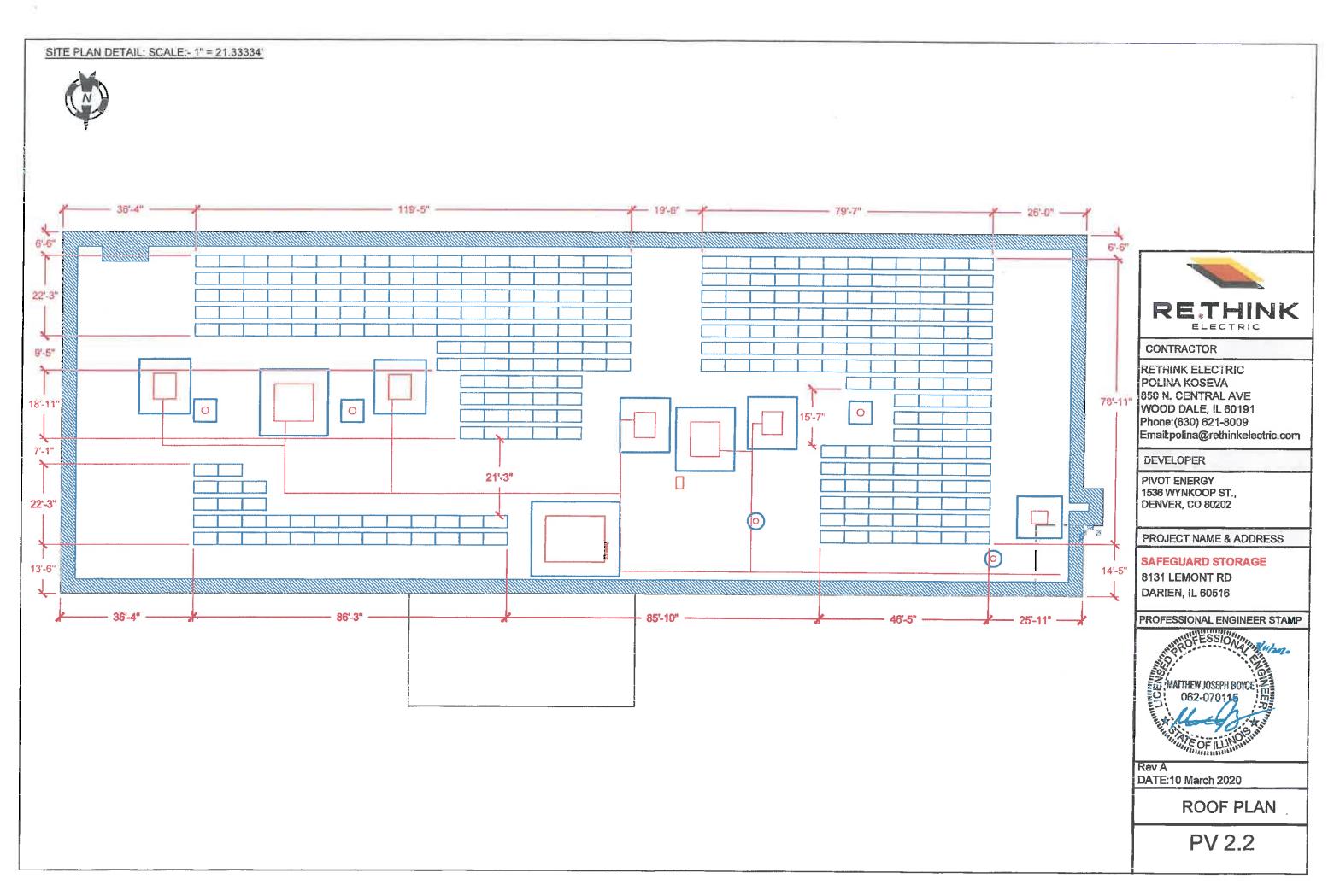
DATE:10 March 2020

COVER SHEET

PV 1.0







SITE PLAN DETAIL: SCALE:- 3/64" = 1'-0"



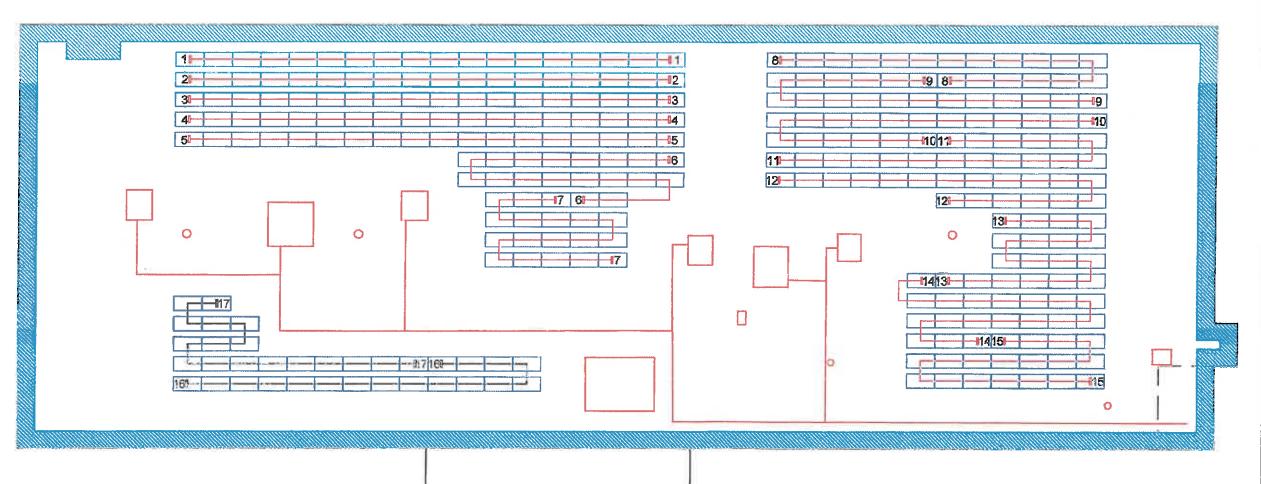
LEGEND

STRING LENGTH: 18 MODULES NO. OF STRINGS: 15

TSTRING LENGTH: 17 MODULES NO. OF STRINGS: 2

MPPT	STRING	STRING LENGTH
_	1	18 MODULES
(iNV- 1)	2	18 MODULES
	3	18 MODULES
B (INV- 1)	4	18 MODULES
	5	18 MODULES
	6	18 MODULES
C (INV- 1)	7	18 MODULES
	8	18 MODULES
	9	18 MODULES

STRING	STRING LENGTH
10	18 MODULES
11	18 MODULES
12	18 MODULES
13	18 MODULES
14	18 MODULES
15	18 MODULES
16	17 MODULES
17	17 MODULES
	10 11 12 13 14 15





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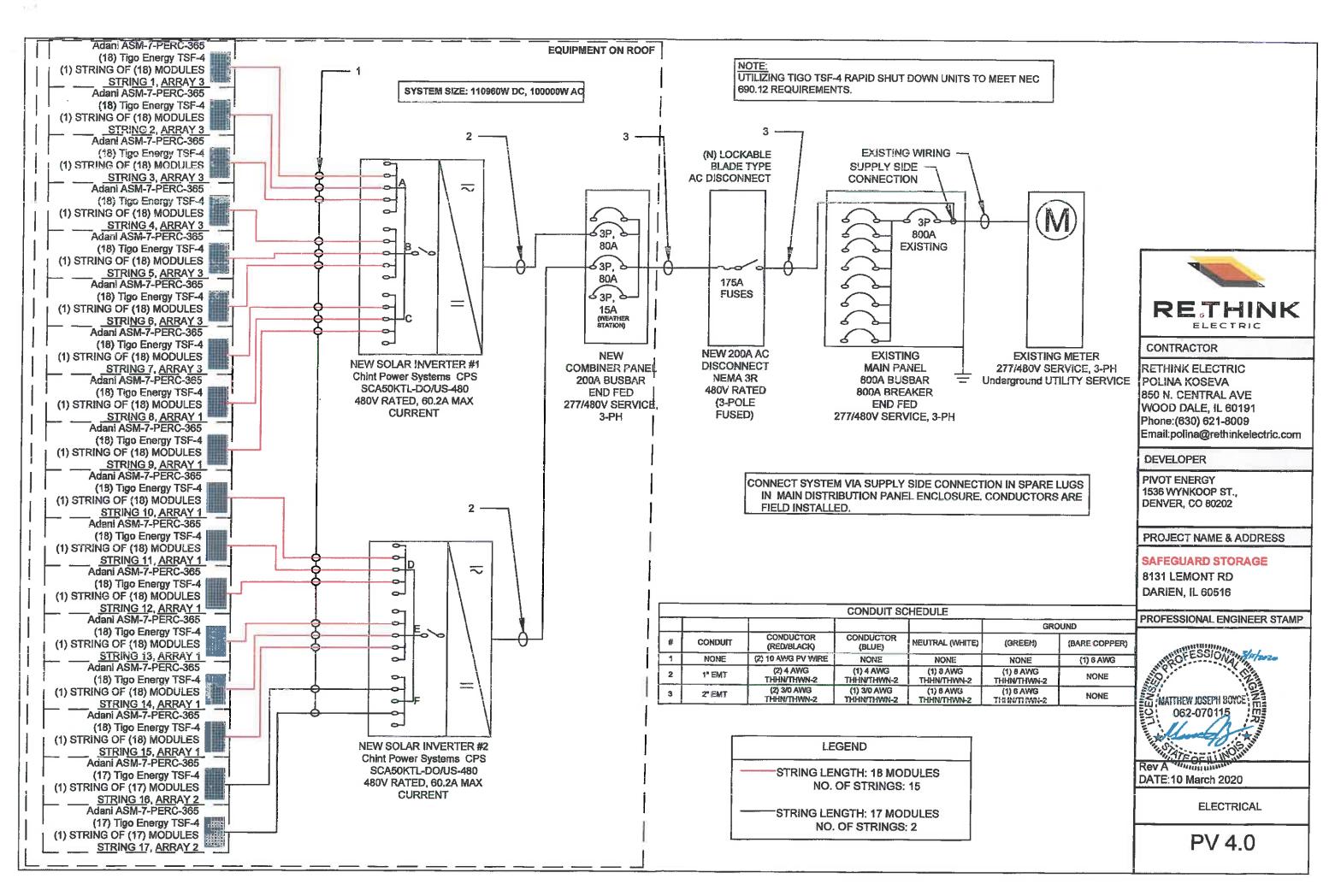


Rev A

DATE:10 March 2020

STRING DIAGRAM

PV 3.0



INVERTER RATINGS						
	INVERTER FATINGS					
MAKE CHINT POWER SYSTEMS						
MODEL.	CPS SCA50KTL-DO/US-480					
MAX INPUT CURRENT	180A					
MAX POWER (AC)	50000W					
MAX DC INPUT VOLTAGE	1000V					
RATED OUTPUT VOLTAGE	480V					
MAX AC CURRENT	60.2A					
CEC EFFICIENCY	98.5%					

	MODULE AND A	RRAY RATINGS:	(304) MODULES)	
SOLAR MO	DDULE RATINGS (STC)		STRING 1-15	STRING 16 & 17
MAKE	ADANI	SERIES	18	17
MODEL	ASM-7-PERC-365	PARALLEL	1	1
lmp	9.36A	lmp	9.36A	9.36A
Vmp	39.01V	Vmp	702.18V	663.17V
Isc	9.93A	isc	9.93A	9.93A
Voc	47.31V	Voc	851.58V	804.27V
Pmax	365W	Pmax	6570W	6205W
%Voc/C	-0.29%	Voc @ extreme min. temp	972.59V	918.56V

	CONDUCTOR SIZING CALCULATIONS							
CIRCUIT DESCRIPTION	CURRENT	imax (690.8(A))	lcont (690.8(B)(2)(a) calc	SPECIFIED CONDUCTOR	AMPACITY @ 90c	AMBIENT TEMP c	CURRENT CARRYING COND.	COND. OF USE APPLIED (690.8(B)(2)(b) calc
INVERTER AC OUTPUT	60.2A	60.2A	60.20A lmax x 1.25 = 75.25A	#4 THWN-2	95A	31-35	1-3	95A x 0.96 (am b. temp.) x1 (raceway fill) = 91.2A
COMBINER PANEL OUTPUT	120.4A	120.4A	120.4A lmax x 1.25 = 150.25A	#3/0 THWN-2	225A	31-35	1-3	225A x 0.96 (am b. temp.) x1 (raceway fill) = 216A

TERMINAL TEMPERATURE RATING CONSIDERATIONS							
CIRCUIT DESCRIPTION	CURRENT	Icont	TERMINAL TEMP RATING	SPECIFIED CONDUCTOR	AMPACITY @ TERMNAL TEMP. RATING		
PV SOURCE CIRCUIT STRING 1-15	9.93A	12.41A x 1.25 = 15.52A	75C	#10	35A		
PV SOURCE CIRCUIT STRING 16 &17	9.93A	12.41A x 1.25 = 15.52A	75C	#10	35A		
INVERTER AC OUTPUT	60.2A	60.20A Imax x 1.25 = 75.25A	75C	#4	85A		
COMBINER PANEL OUTPUT	120.4A	120.4A lmax x 1.25 = 150.25A	75C	#3/0	200A		

VOLTAGE DROP CALCULATIONS						
LENGTH	ł	Ohms/kFt	V	CALC	Vdrop	
50Ft	9.93A	0.6282	1000V	50' x 9.93A x 2 x 0.6282/1000/1000V=	0.06%	
50Ft	9,93A	0.9989	1000V	50' x 9.93A x 2 x 0.9989/1000/1000V=	0.10%	
30Ft	60.2A	0.2485	480V	30' x 60.2A x 2 x 0.2485/1000'/480V=	0.19%	
30Ft	120,4A	0.0618	480V	30' x 120.4A x 2 x 0.0618/1000'/480V=	0.09%	



CONTRACTOR

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DEVELOPER

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PROJECT NAME & ADDRESS

SAFEGUARD STORAGE

8131 LEMONT RD DARIEN, IL 60516

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Rev A DATE:10 March 2020

ELECTRICAL

PV 4.1

INSTALL ON THE UTILITY METER

WARNING

THIS SERVICE METER
IS ALSO SERVED BY A
PHOTOVOLTAIC SYSTEM

INSTALL ON THE MAIN BREAKER PANEL

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

TO BE INSTALLED IN ACCORDANCE WITH SECTION 690.56(C):

CAUTION: SOLAR ELECTRIC
SYSTEM CONNECTED

PHOTOVOLTAIC SYSTEM
AC DISCONNECT

OPERATING VOLTAGE 480 VOLTS
OPERATING CURRENT 120 4 AMPS

WARNING

TURN OFF PHOTOVOLTAIC
AC DISCONNECT PRIOR TO
WORKING INSIDE PANEL

INSTALL ON PV ONLY SUBPANEL

NOTICE
PV SYSTEM COMBINER PANEL
DO NOT ADD LOADS TO THIS PANEL

LABEL LOCATION LOAD CENTER

[Only use when applicable for PV load center]

INSTALL ON THE AC DISCONNECT

AC DISCONNECT

OPERATING VOLTAGE 480 VOLTS
OPERATING CURRENT 120 4 AMPS

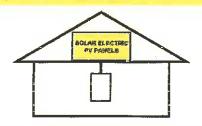
PV SYSTEM DISCONNECT FOR UTILITY OPERATION

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS
TERMINALS ON BOTH THE LINE AND
LOAD SIDES WAY BE ENERGIZED
IN THE OPEN POSITION.

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY.

INSTALL ON THE INVERTER#1

PHOTOVOLTAIC SYSTEM DC DISCONNECT

OPERATING VOLTAGE 972.59 VDC
OPERATING CURRENT 84.24 AMPS
MAX SYSTEM VOLTAGE 1000 VDC
SHORT CIRCUIT CURRENT 89.37AMPS
CHARGE CONTROLLER MAX N/A AMPS

INSTALL ON THE INVERTERS

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS
TERMINALS ON BOTH THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

WARNING

ELECTRIC SHOCK HAZARD

IF GROUND FAULT IS INDICATED
ALL NORMALLY GROUNDED
CONDUCTORS MAY BE UNGROUNDED
AND ENERGIZED

TO BE INSTALLED EVERY 10 FEET ON ALL EXTERIOR CONDUIT, RACEWAYS AND BOXES

WARNING: PHOTOVOLTAIC
POWER SOURCE

INSTALL ON THE INVERTER#2

PHOTOVOLTAIC SYSTEM DC DISCONNECT

OPERATING VOLTAGE 972.59 VDC
OPERATING CURRENT 74.88 AMPS
MAX SYSTEM VOLTAGE 1000 VDC
SHORT CIRCUIT CURRENT 79.44AMPS
CHARGE CONTROLLER MAX N/A AMPS



CONTRACTOR

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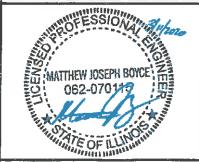
PIVOT ENERGY 1536 WYNKOOP ST., DENVER, CO 80202

PROJECT NAME & ADDRESS

SAFEGUARD STORAGE

8131 LEMONT RD DARIEN, IL 60516

PROFESSIONAL ENGINEER STAMP



Rev A DATE:10 March 2020

WARNING LABELS

PV 5.0







Partner Name: ReThink Electric

Project Name: SG - Darien

Project Location: 8131 Lemont Road

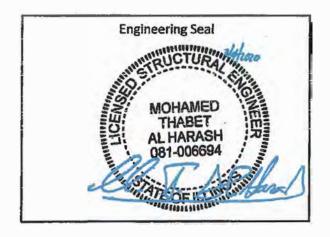
Darien, IL, 60516

Racking System: Polar Bear III HD



Structural Calculations for Roof-Mounted Solar Array

Submittal Release: Rev O



(ASCE 7.3.4)



2.0 Snow Load:

Snow Calculations per ASCE 7-10, Chapter 7

2.1 Snow Load Data:

Ground Snow Load (Pg) =	25.00	psf	ASCE, Figure 7-1
Exposure Factor (Ce) =	1		ASCE, Table 7-2
Thermal Factor (Ct) =	1.2		ASCE, Table 7-3
Importance Factor (Is) =	1		(ASCE, Table 1.5-2)
Flat Roof Snow Load (Pf) = 0.7*Pg*Ce*Cl	*ls=	<u>21.00</u> psf	(ASCE 7.3-1)

Min Snow Load for Low Slope Roof = Snow Load on Array (SLA) = psf

 SL_A

20*ls=

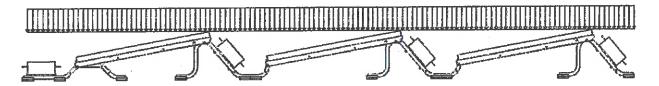


Fig. 2.1 - Uniform Roof Snow Load on Array

2.2 Snow Load Per Module:

Module Projected Area * SL_A Snow Load per Module (SLM) =

Where;

Module Projected Area (Amp) = Module Area * Cos(Module Tilt)

Where;

Module Area = 21.72 sq.ft. Module Tilt = 10.40 degrees

> 21.36 sq.ft. Amp =

 $SL_M = A_{mp} * SL_A =$ lb



6.0 Design Loads - Downward:

6.1 Downward Wind Load Calculation:

$$WL_{in} = q_z * A_m * C_{fz} * \cos \theta$$

Where:

qz = 18.17 psf

Am = 21.72 sq.ft.

(Single Module Area)

 θ = 10.40 deg.

 $C_{fz} = 1.13$

(Inward)

 $C_{fz} = 0.30$

(Inward with snow)

 WL_{in} (no snow) =

439 lbs./module

 $WL_{ln}(with snow) =$ 116 lbs./module

Contact Pad by Location:

A = Northern

B = Northern

C = Interior

D = Interior

E = Southern

F = Southern

(Ref. Pg. 3, Wind Load)

(Ref. Pg. 1, Project Information)

(Ref. Pg. 1, Project Information)

(Proprietary Wind Tunnel Data)

(ASCE 7-10 figure 30.4-2A)

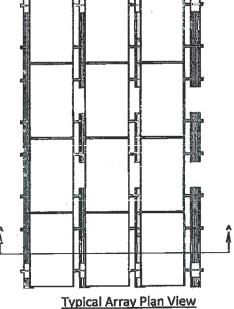
6.2 Racking Dimensions for Point Loads:

Inter-Module Support Spacing =

46.85 in.

32.81 in.

Inter-Column Support Spacing =

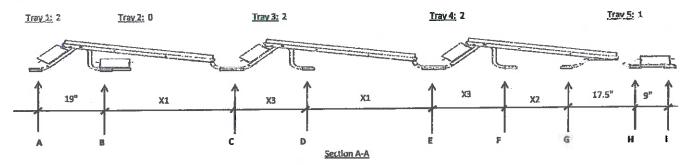


(Section A-A on Next Page)



6.0 Design Loads - Downward (CONT.):

6.2 Racking Dimensions for Point Loads (Cont.):



<u>Distances Between Supports (Unless Noted):</u>

X1 = 34.25 in.

X2 = 14.33 in.

X3 = 21,77 in.

6.3 Point Load Summary:

OLsys = 72

Total DL = (Varies on location and ballast quantity)

SLm = 449 lbs./module
Wiin (no snow) = 439 lbs./module
Wiin (with snow) = 116 lbs./module

		Extreme Poin	t Load Summary Tab	ile				
		load combinations (ASD)						
Location	Load	DL + Sum	DL+06XWin	DL + 0.75 % SLin + 0.75(0.6 % WL)				
Northern:	1	86 ibs.	63 lbs.	79 (bs.				
Worthern.	10.00	76 lbs.	53 lbs.	68 lbs.				
and a second	it.	152 lbs.	105 lbs.	137 lbs.				
Interior	-0	141 ibs.	94 lbs.	126 lbs.				
Interior	1	152 lbs.	105 lbs.	137 lbs.				
interior	F	141 lbs.	94 lbs.	126 lbs.				
Solution)	10.00	43 lbs.	28 lbs.	38 lbs.				
Southern	H	51 lbs.	36 lbs.	46 lbs.				
Sauttien		51 lbs.	36 lbs.	46 lbs.				
For Chieckling	-1	893 lbs.	615 lbs.	804 lbs.				

Table 6.1-A Extreme Point Load Summary

Location		Point Loads (lb/single block) at each Tray Location						
		Tray 1	Tray 2	Tray 3	Tray 4	Tray 5		
Ato base	i.	11 lhs.						
Morthern:		5 lbs.	16 lbs.					
Interior				11 lbs.				
Interior	10.			5 lbs.				
Interior	1/E				11 lbs.			
Interior					5 lbs.			
Southern .	- 6							
Southern	91					8 lbs.		
Socthern						8 lbs.		

Table 6.1-B Single Block Point Load Summary





ETERNAL SERIES

5BB Mono-Crystalline PERC Silicon Solar PV Modules - 1500V Series

ASM-7-PERC-AAA (AAA=365 - 390) | 72 Cells | 365 - 390 Wp

Highlights



Higher performance at longer wavelengths of light (1100-1200 nm)



Superior temperature co-efficient and performance at NOCT, PTC ratings



Excellent performance at low light irradiation (200 W/m2)



LIR treated cells with least LID effect



5 bus bar cells offering better reliability against microcracks



Triple EL checking to ensure defect free modules



Reduces transport costs by 3%

costs by 3%

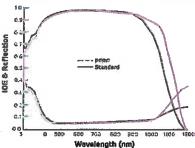
Reduces BOS costs by 6%

2019 TOP PERFORMER





PV MODULE RELIABILITY SCORECARD Significant benefit of PERC technology



PERC technology enables better light capturing abilities at longer wavelength, weak and unitosed light and in cloudy conditions.

adani

Solar

Technical Data

Electrical data - All data measured to STC*

Pmax (Wp)		365	370	375	380	385	390
Maximum voltage, Vmpp	(∀)	39.01	39,16	39.34	39.5	39.66	39.82
Maximum current, Impp	(A)	9.36	9,46	9.55	9.64	9.743	9.84
Open circuit voltage, Voc	(V)	47.31	47.47	47.67	47.77	47.99	48.16
Short circuit current, isc	(A)	9.93	9.99	10.03	10.06	10.11	10.16
Module efficiency	(%)	18.09	18.34	18.58	18.9	19.1	19.35

Electrical parameters at NOCT

Maximum Power Pmax @ N	IOCT	275	279.2	283.4	287.6	291.72	295.88
Maximum voltage, Vmpp	(V)	38.13	38.4	38.6	38.8	39.02	39.24
Maximum current, Impp	(A)	7.21	7.28	7.35	7.41	7.48	7.55
Open circuit voltage, Voc	(V)	46.87	47.09	47.31	47,53	47.77	48.00
Short circuit current, isc	(A)	7.61	7.68	7.75	7.82	7.87	7.94

*STC: Irradiance 1000 W/m² cell temperature 25°C, air mass AM1,5 according to EN 60904-3. Average afficiency reduction of 4.5% at 200 W/m² according to EN 60904-1. Except Pmpp, all other parameters have a tolerance of 4/-3%, measurement uncertainty 43%.

*NOCT irradiance 800 W/m2, ambient temperature 20°C, wind speed 1 m/sec

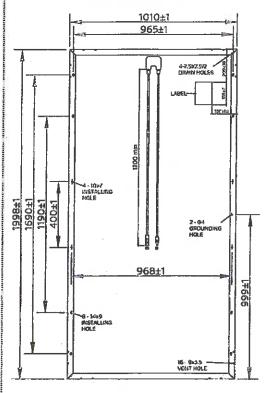
Temperature co-efficients (TC) and permissible operating conditions

TC of open circuit volta	ge (β)	-0.29% /°C	
TC of short circuit curre	ent (a)	0.048% /C	
TC of power	(1)	-0,39% /°C	
Maximum system voltage		1500 V (IEC & UL)	
NOCT		45°C ± 2°C	
Temperature range		-40°C to + 85°C	

Mechanical data

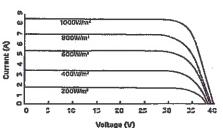
MICOLIDINADI GODO	
Length	1998 mm
Width	1010 mm
Height	35 mm/40 mm
Weight	22.7 Kg (35 mm) / 23 Kg (40mm)
Junction box	IP68
Cable and connectors	1200 mm length cable, MC4 & Amphenol compatible connectors
Application class	Class A (Safety class II)
Superstrate	High transmittance arc glass
Celis	72 mono-crystalline PERC solar cells; 5 bus bars
Encapsulation	Low shrinkage PID resistant EVA
Substrate	Tri layer backsheet
Frame	Anodized aluminium frame with twin wall profile
Mechanical load test as per IEC & UL	5400 Pa-front; 2400 Pa-back
Maximum series fuse rating	15 A

Dimensions in mm



Current-Voltage Curve

Note:



Note:

 The specifications included in this datesheet are subject to change without notice.
 The electrical date given here is for reference purpose only.

 Please confirm your exact requirements with the sales representative while placing your order. All models sold will be as per MSPVL QAP.

Warranty and certifications

Product warranty**
12 years of product warranty

Performance guarantae** Power degradation <-3% in first year <-0.68% / year in 2-25 years

Approvals and certificates: IEC 61215 Ed2, IEC 61730, IEC 61701, UL 1703, MCS, JET, CEC, CEC Aus, IEC 62716, IEC 62799, IEC 62804, IEC 62782, IEC 60068-2-68, IEC 61853

*All cartifications are under process &







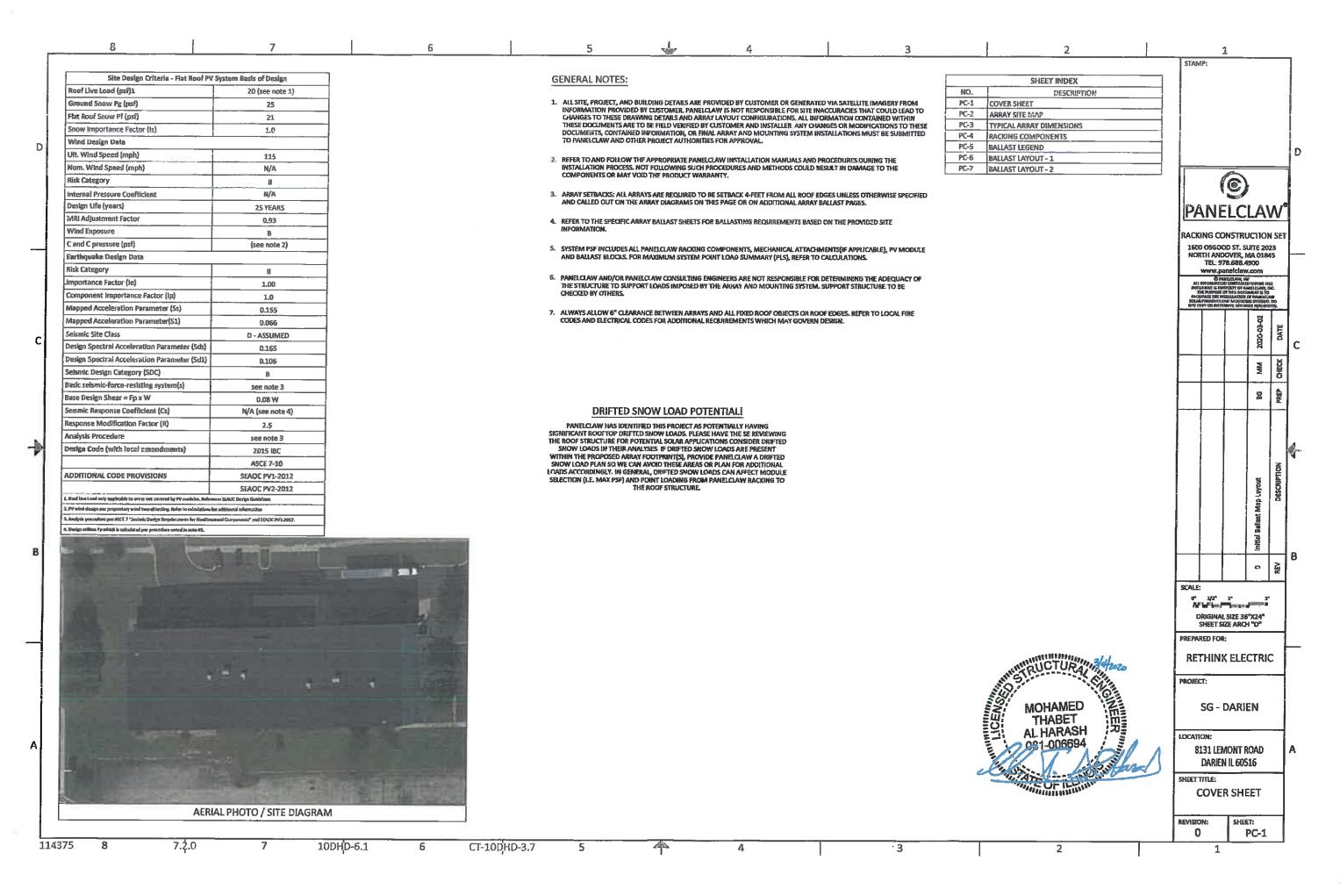


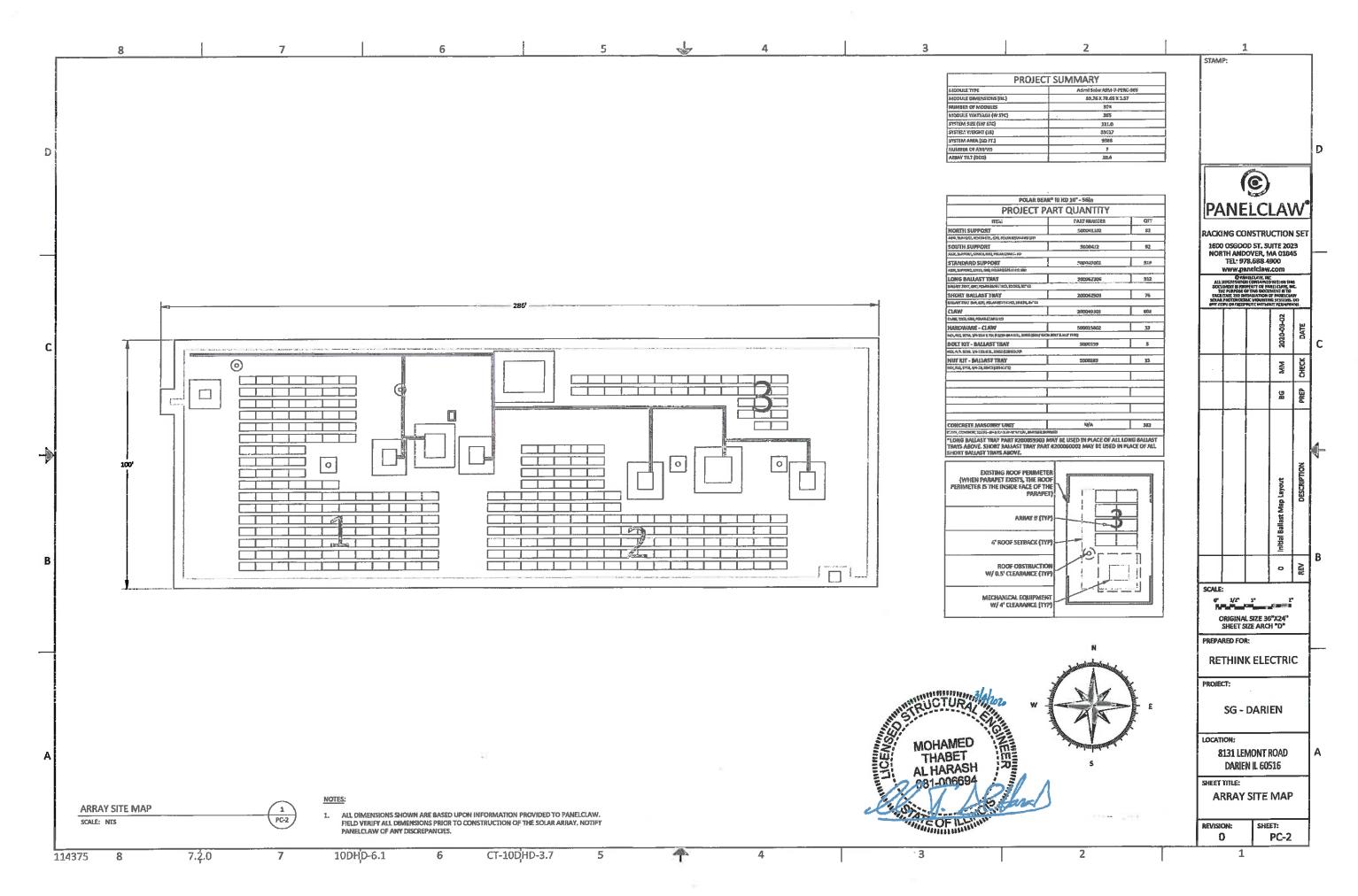


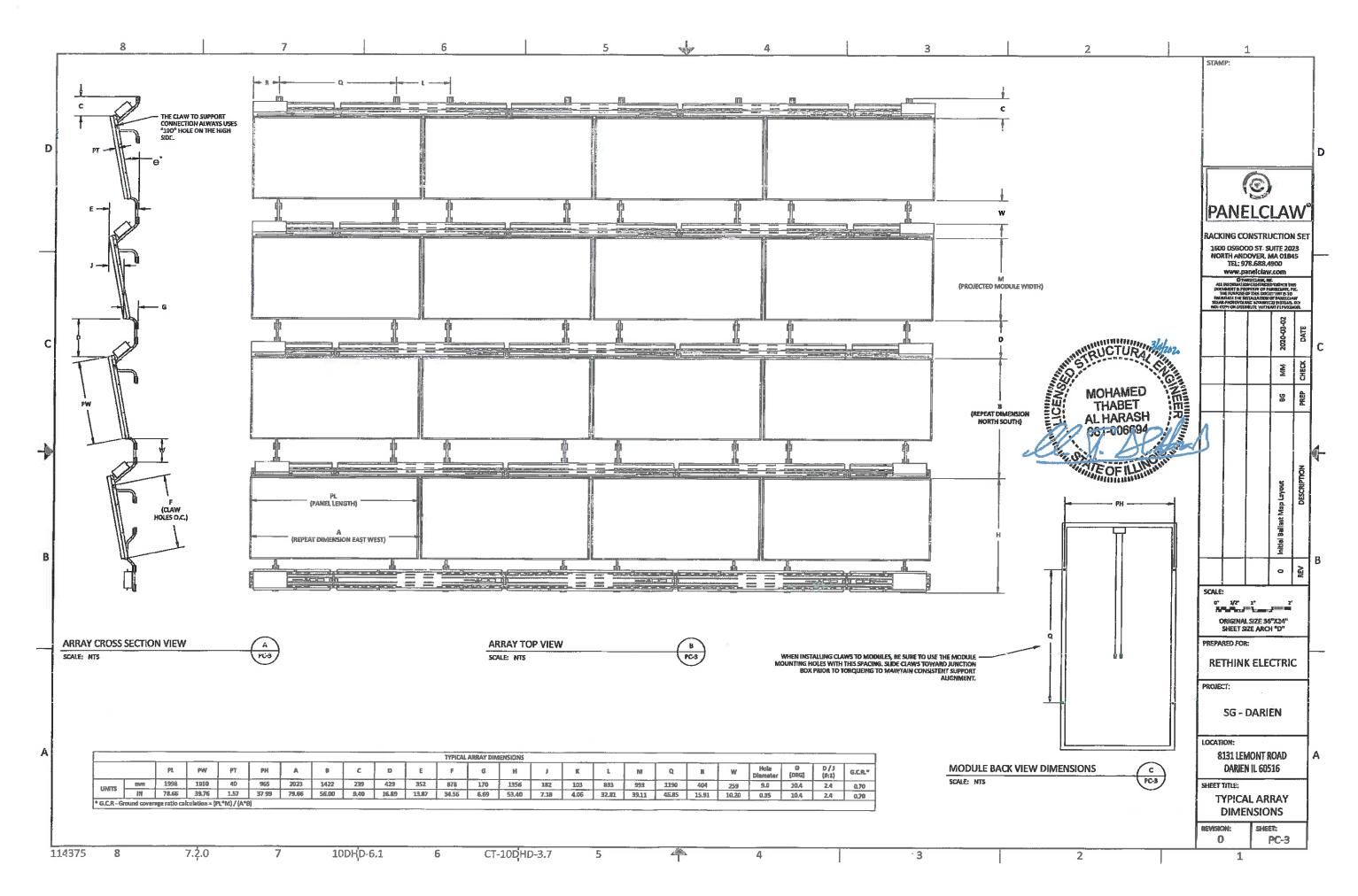


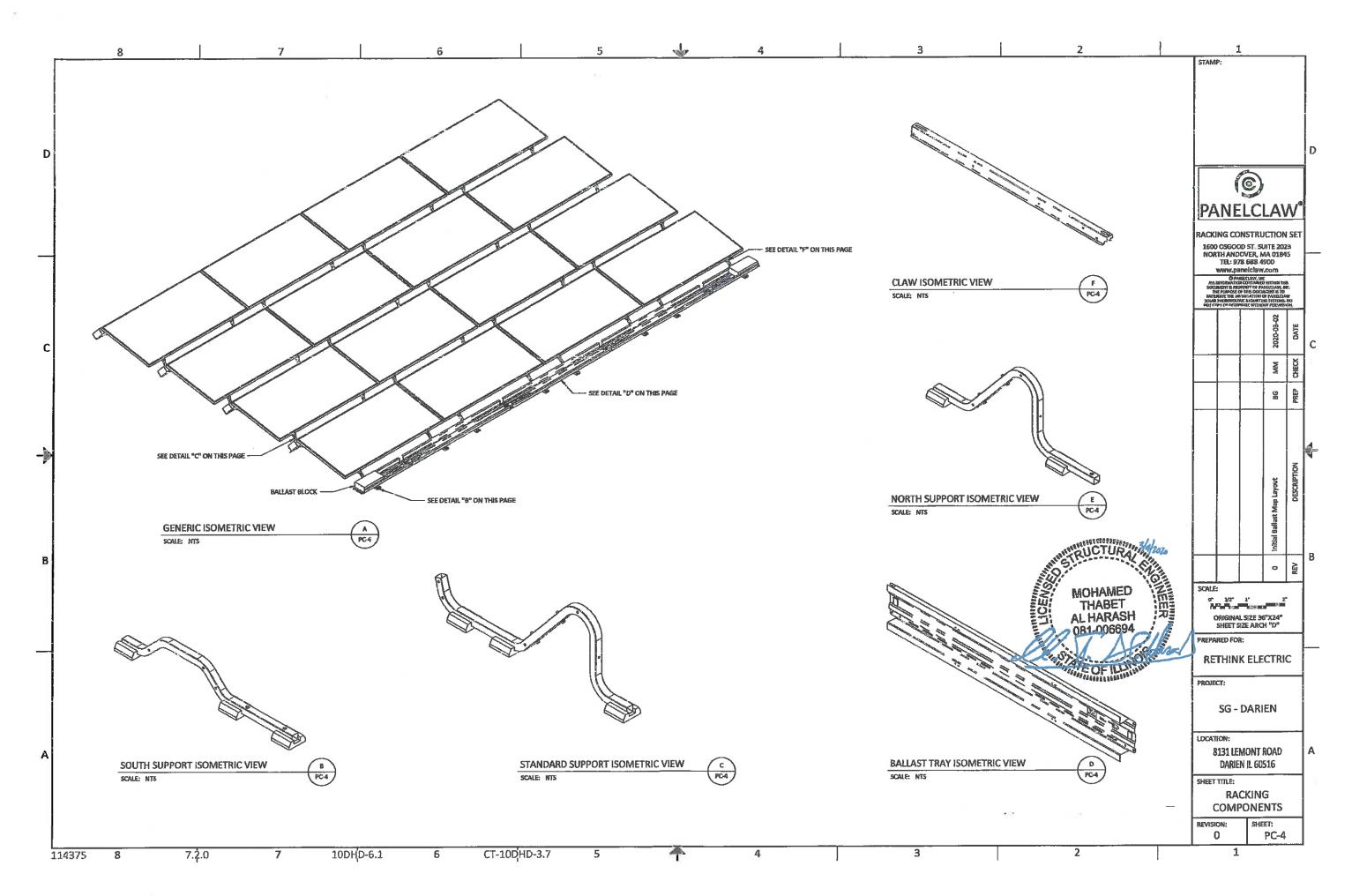


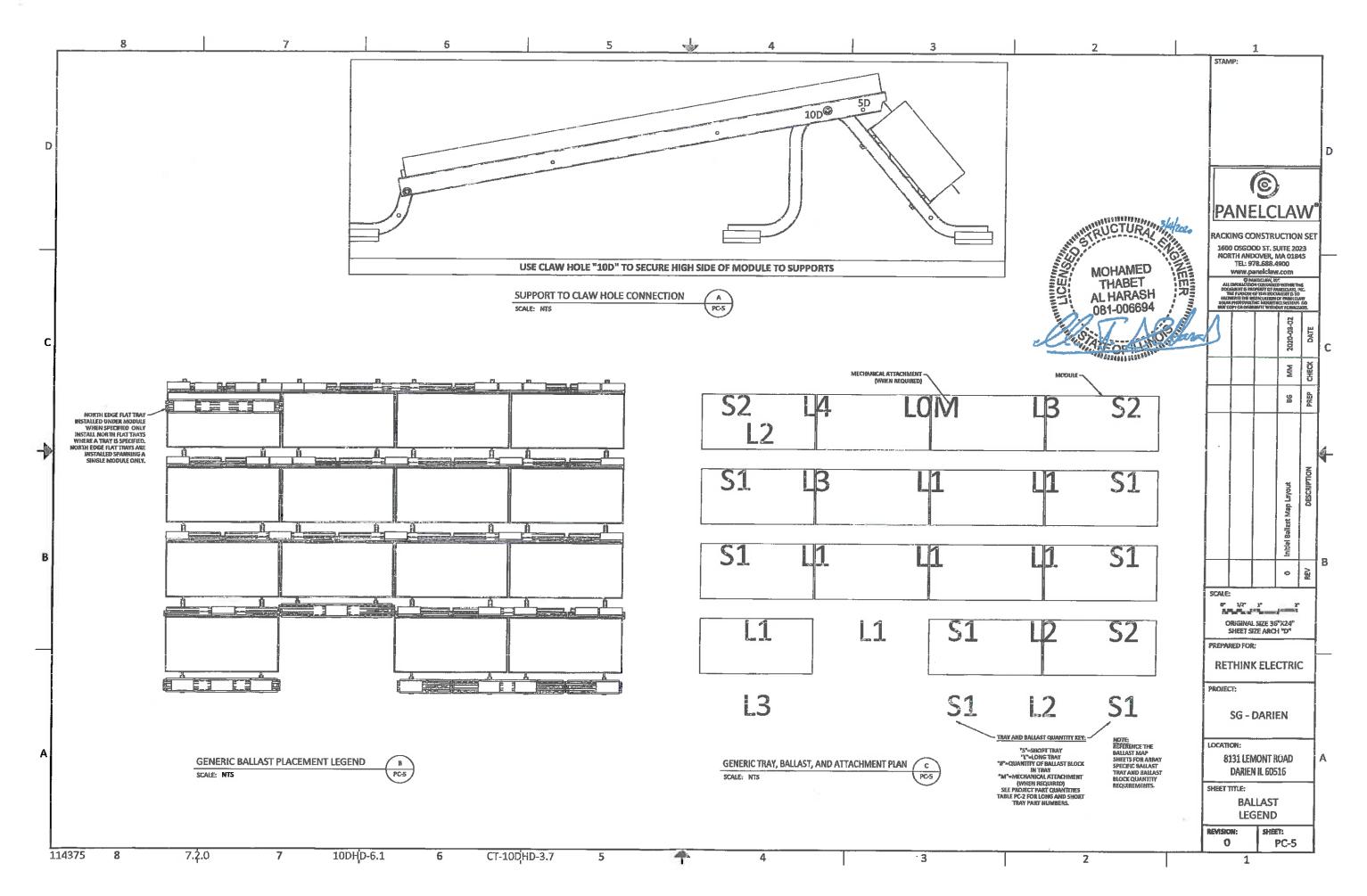
** Warranty:
Please read Adani solar warranty documents thoroughly. *Caution: Please read safety and installation instructions before using the product.

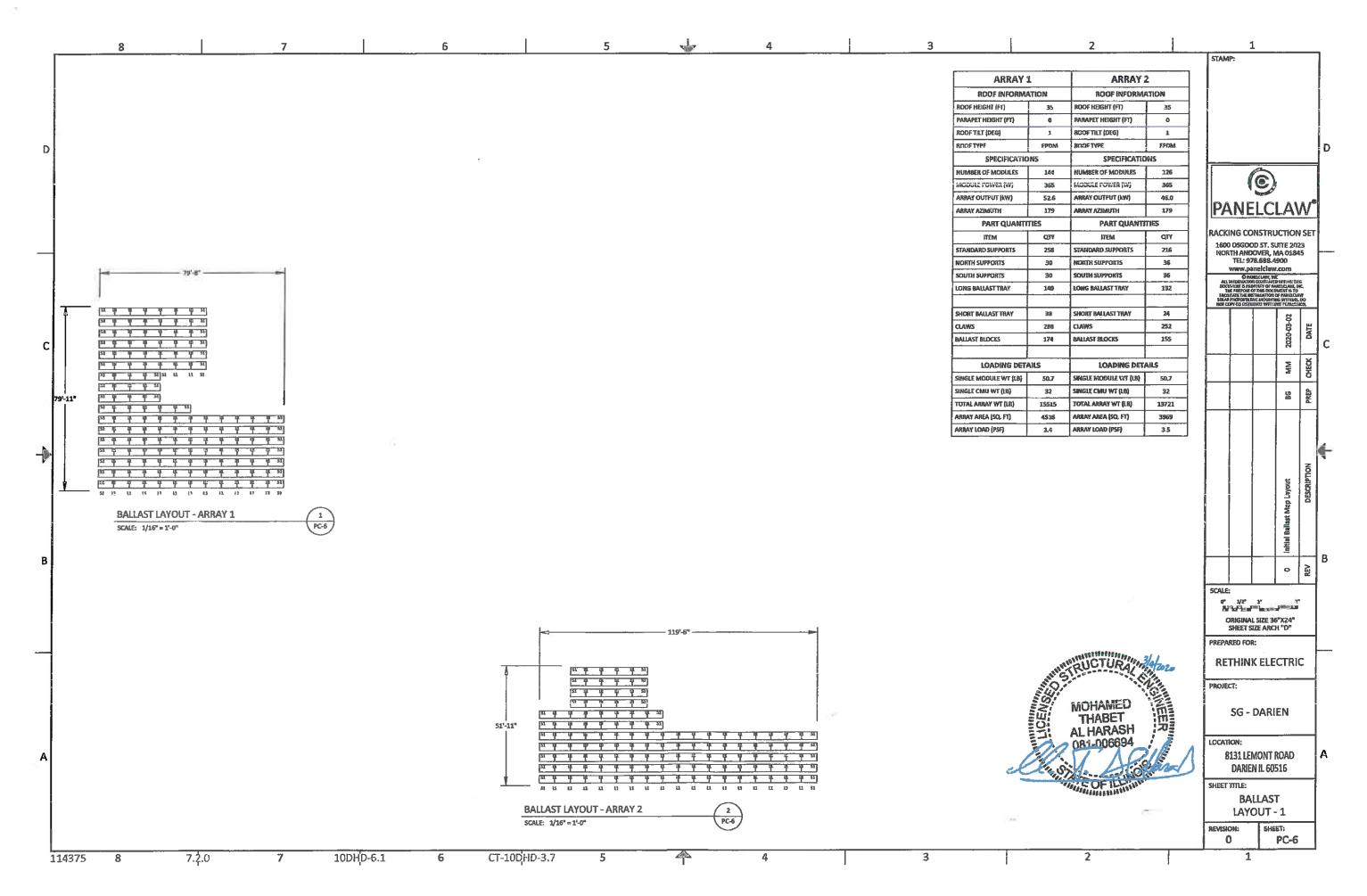


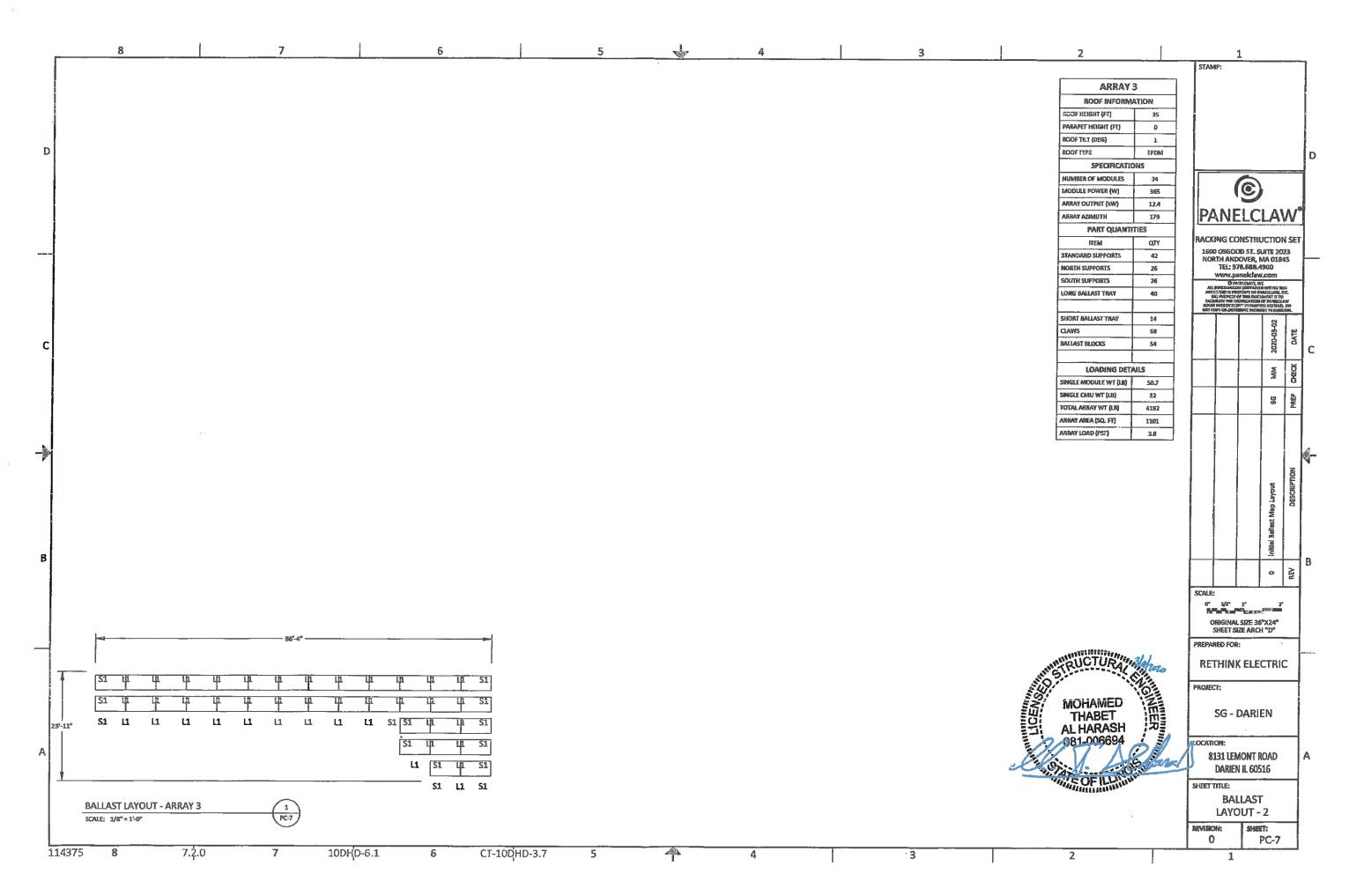






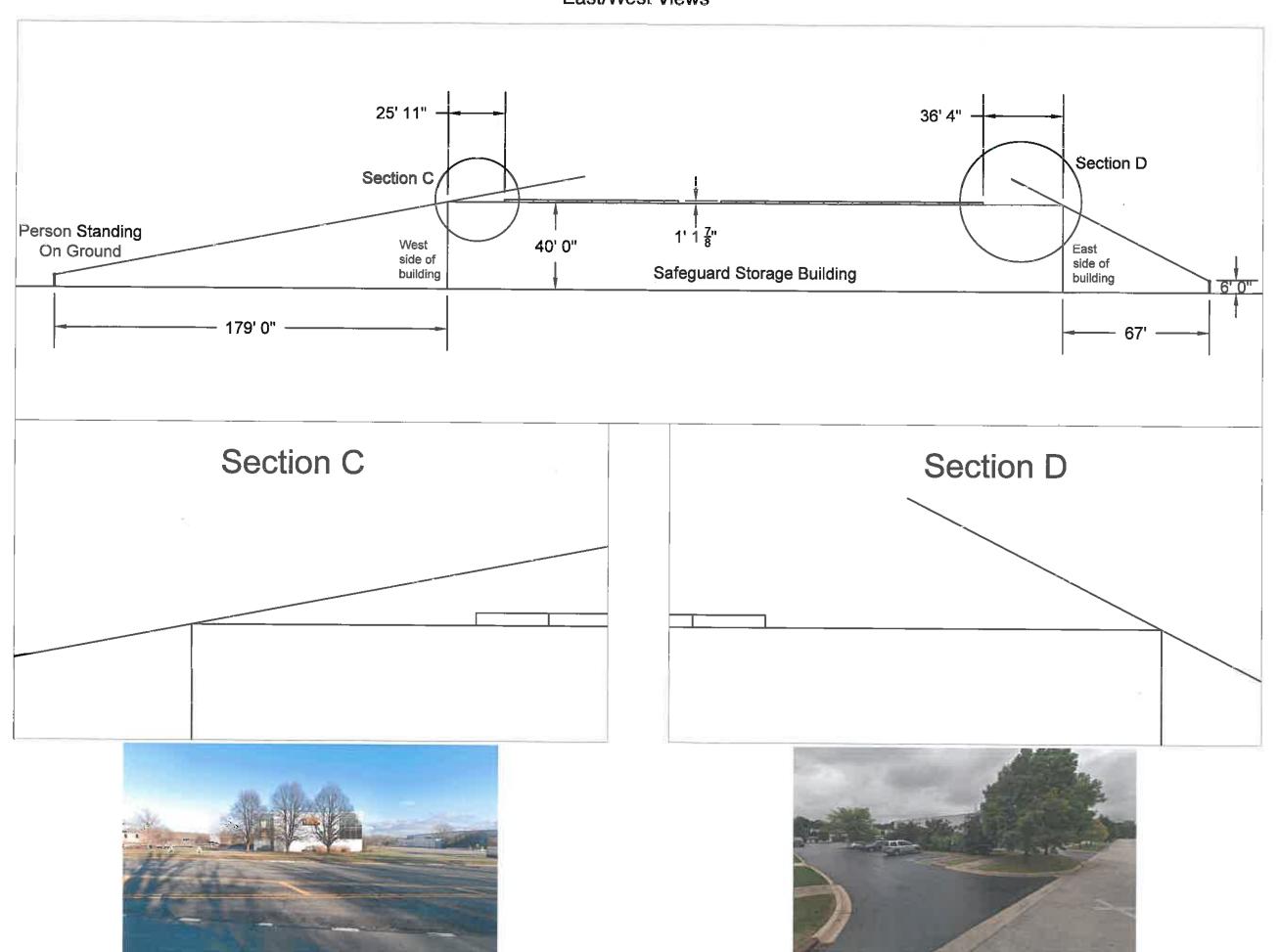




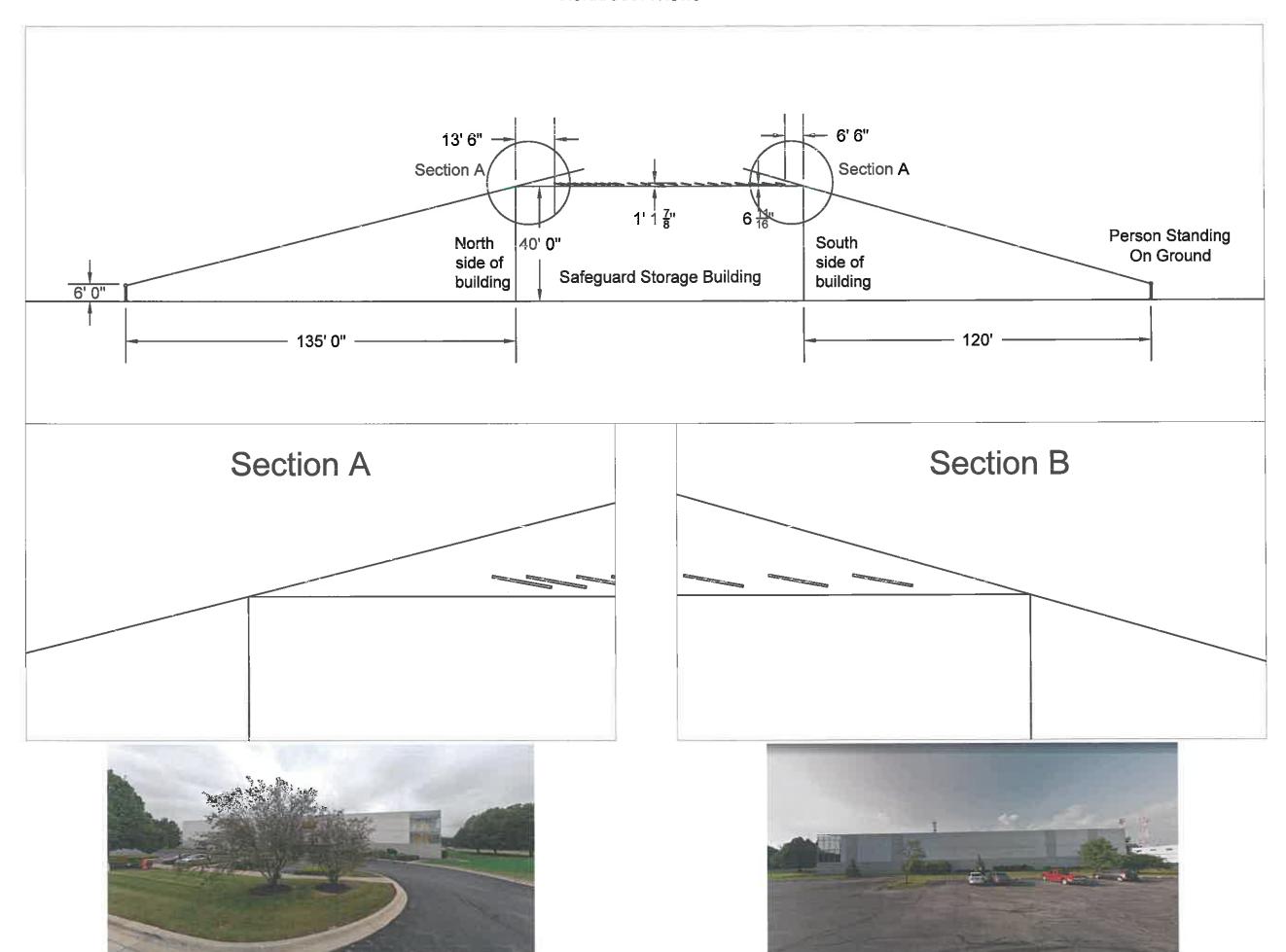


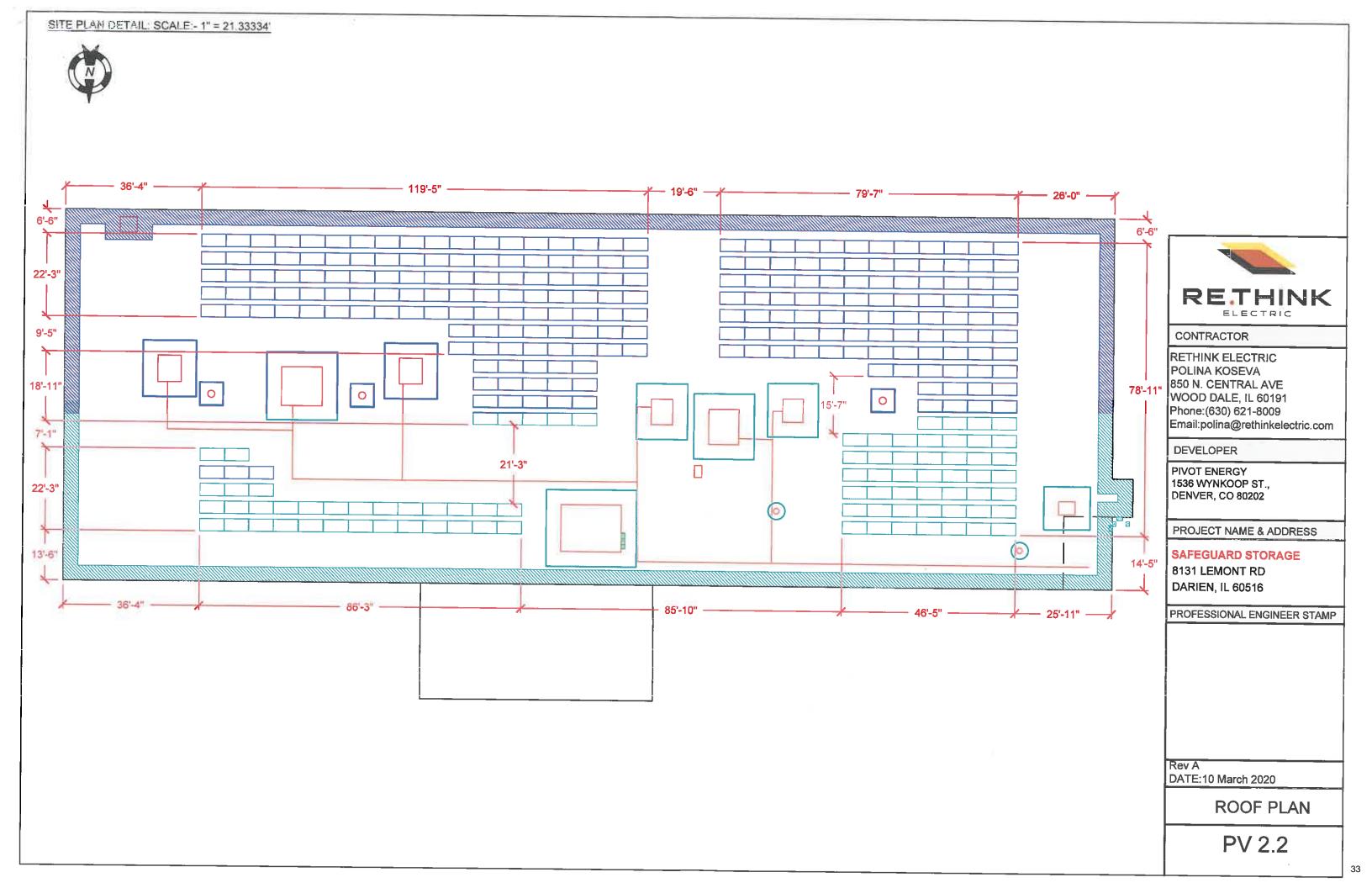


East/West Views



North/SouthViews



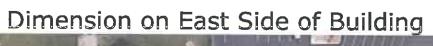


Dimension on North Side of Building



Dimension on South Side of Building











View from North Side of Building



View from South Side of Building



View from East Side of Building



View from West Side of Building







CITY OF DARIEN ZONING VARIATIONS JUSTIFICATION NARRATIVE

Purpose

To be consistent and fair, the City is obligated to make decisions on zoning variation requests based on findings-of-fact. The Applicant should write a justification narrative that contains evidence (facts) that support a conclusion (finding) that the variation is necessary and would not cause problems. It should include: a) explanation of why the variation is being requested, b) describe the 'hardship condition' of the property that makes it difficult to conform, c) estimate the impact on neighbors, and d) respond to each of the decision criteria below.

<u>Decision Criteria</u> (See City Code Section 5A-2-2-3)

- 2a. The property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations in the zone.
- 2b. The plight of the owner is due to unique circumstances.
- 2c. The variation if granted will not alter the essential character of the locality.
- 3a. Essential Need? The owner would suffer substantial difficulty or hardship and not mere inconvenience or a decrease in financial gain if the variation is not granted.
- 3b. Problem with Property? There is a feature of the property such as slope or shape or change made to the property, which does not exist on neighboring properties, which makes it unreasonable for the owner to make the proposed improvement in compliance with the Zoning Code. Such feature or change was not made by the current owner and was not known to the current buyer at the time of purchase.
- 3c. Smallest Solution? There is no suitable or reasonable way to redesign the proposed improvements without incurring substantial difficulty or hardship or reduce the amount of variation required to make such improvements.
- 3d. Create Neighbor Problem? The variation, if granted, will not cause a substantial difficulty, undue hardship, unreasonable burden, or loss of value to the neighboring properties.
- 3e. Create Community Problem? The variation, if granted, may result in the same or similar requests from other property owners within the community, but will not cause an unreasonable burden or undesirable result within the community.
- 3f. Net Benefit? The positive impacts to the community outweigh the negative impacts.
- 3g. Sacrifice Basic Protections? The variation, if granted, will comply with the purposes and intent of the Zoning Code set forth in Section 5A-1-2(A) and summarized as follows; to lessen congestion, to avoid overcrowding, to prevent blight, to facilitate public services, to conserve land values, to protect from incompatible uses, to avoid nuisances, to enhance aesthetic values, to ensure an adequate supply of light and air, and to protect public health, safety, and welfare.



CITY OF DARIEN

	DU PAGE COUNTY, ILLIN	OIS				
	ORDINANCE NO.					
AN ORDINANCE GRAN	TING A VARIATION FROM S DARIEN ZONING ORDINA	SECTION 5A-5-9-8(B) OF THE NCE				
(PZC 2020-06 8131 Lemont Road)						
	ADOPTED BY THE					
	MAYOR AND CITY COUN	CIL				
	OF THE					
	CITY OF DARIEN					
THIS	DAY OF	, 2020				
Published in pamphlet form the Mayor and City Counc Darien, DuPage County, day of	il of the City of Illinois, this					

AN ORDINANCE GRANTING A VARIATION FROM SECTION 5A-5-9-8(B) OF THE DARIEN ZONING REGULATIONS

(PZC 2020-06 8131 Lemont Road)

WHEREAS, the City of Darien is a home rule unit of local government pursuant to the provisions of Article VII, Section 6 of the Illinois Constitution of 1970; and

WHEREAS, as a home rule unit of local government, the City may exercise any power and perform any function pertaining to its government except as limited by Article VII, Section 6; and

WHEREAS, the property legally described in Section 1 (the "Subject Property"), is zoned OR&I Office, Research and Light Industrial District pursuant to the Darien Zoning Regulations; and

WHEREAS, the petitioner has requested approval of a variation from the terms of the Darien Zoning Regulations, Section 5A-5-9-8(B)5 of the City Code, that otherwise requires solar panels be screened with a parapet or screening wall when in excess of 6 inches in height, to allow for the installation of solar panels, which have a height of 14 inches, without such a wall, and

WHEREAS, pursuant to proper legal notice, a Public Hearing on said petition for variation was held before the Planning and Zoning Commission on June 17, 2020; and

WHEREAS, the Planning and Zoning Commission at its regular meeting of June 17, 2020, recommended approval of the petition herein described and has forwarded its findings and recommendation of approval to the City Council; and

WHEREAS, on June 20, 2020, the Municipal Services Committee of the City Council reviewed the petition and has forwarded its recommendation of approval of said petition to the City Council; and

WHEREAS, the City Council has reviewed the findings and recommendations described above and now determines to grant the petition subject to the terms, conditions and limitations described below.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, IN THE EXERCISE OF ITS HOME RULE POWERS, as follows:

SECTION 1: Subject Property. This Ordinance is limited and restricted to the property generally located at 8131 Lemont Road, Darien, Illinois, and legally described as follows:

PARCEL 1: LOTS 6 AND 7 IN DARIEN CORPORATE CENTRE, BEING A SUBDIVISION OF PART OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 38 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JUNE 29, 2000 AS DOCUMENT R2000-099131, IN DUPAGE COUNTY, ILLINOIS.

PARCEL 2: EASEMENT FOR THE BENEFIT OF PARCEL 1 AS CREATED BY THE PLAT OF DARIEN CORPORATE CENTRE, RECORDED JUNE 29, 2000 AS DOCUMENT R2000-099131, FOR INGRESS AND EGRESS OVER THE AREAS PLATTED AND DESIGNATED "INGRESS AND EGRESS EASEMENT".

PIN: 09-32-106-035

SECTION 2: Variations from Zoning Ordinance Granted. A variation is hereby granted from Section 5A-5-9-8(B)5 of the City Zoning Ordinance, that otherwise requires solar panels be screened with a parapet or screening wall when in excess of 6 inches in height, to allow for the installation of solar panels which have a height of 14 inches without such a wall,.

SECTION 3: Home Rule. This ordinance and each of its terms shall be the effective legislative act of a home rule municipality without regard to whether such ordinance should (a) contain terms contrary to the provisions of current or subsequent non-preemptive state law, or (b) legislate in a manner or regarding a matter not delegated to municipalities by state law. It is the intent

of the corporate authorities of the City of Darien that to the extent of the terms of this ordinance should be inconsistent with any non-preemptive state law, that this ordinance shall supercede state law in that regard within its jurisdiction.

SECTION 4: Effective Date. This Ordinance shall be in full force and effect from and after its passage and approval as provided by law.

PASSED AND APPROVED BY	THE CITY COUNC	IL OF THE CITT OF DARIEN,
DU PAGE COUNTY, ILLINOIS, this	day of	, 2020.
AYES:		
NAYS:		
ABSENT:		
APPROVED BY THE MAYOR	OF THE CITY OF	DARIEN, DU PAGE COUNTY,
ILLINOIS, this day of	, 2020.	
ATTEST:	JOSEPH A. MAR	CHESE, MAYOR
JOANNE E. RAGONA, CITY CLERK		
APPROVED AS TO FORM:		
CITY ATTORNEY		



MINUTES CITY OF DARIEN MUNICIPAL SERVICES COMMITTEE MEETING June 15, 2020

PRESENT: Alderman Thomas Belczak -Chairman, Alderman Eric Gustafson,

Alderman Joseph Kenny, Dan Gombac – Director, Joe Hennerfeind – Senior Planner

ABSENT: None

ESTABLISH QUORUM

Chairperson Thomas Belczak called the meeting to order at 6:16 p.m. at City Hall Council Chambers, Darien, Illinois and declared a quorum present.

NEW BUSINESS

a. Discussion – open burning, fire pits, outdoor fireplaces

Mr. Dan Gombac, Director reported that Mayor Joe Marchese requested that Municipal Services review the existing code as it relates to controlled outdoor open burning, specifically fire pits and outdoor fireplaces.

Mr. Gombac reviewed the code and reported that staff reached out to other municipalities for feedback and that generally the surrounding communities were in line with the City's ordinance. He reported that the City ordinance is more restrictive with hours of open burning and that Elmhurst issues a permit for all open burning activities. He reported that staff received an extensive report regarding open burning from a resident and that staff responded to the resident but received no response in return.

Chairperson Belczak questioned if there is a setback noted regarding fire pits.

Mr. Gombac reported that there are no setbacks in place but that typically firepits are in the middle of the yard and that staff has not received any complaints.

Chairperson Belczak stated that he would like to see a setback written into the ordinance.

Alderman Kenny stated that there are two residents one in favor and one not and questioned burning from a health standpoint.

Chairperson Belczak opened the meeting to anyone wishing to present public comment.

Ms. Kim Warden, Darien recited the burning rules in Darien. She highlighted an incident with her neighbors on May 20, 2020 regarding a burn at her neighbors' home which filled her house with smoke. Ms. Warden stated that burns are unhealthy and that the City's ordinance is short and vague and that bon fires should require a permit.

Alderman Gustafson stated that he received residential concerns and suggested restricting hours to Friday and Saturday evening and holidays from 7:00 pm – 12:00 am.

Mr. Gombac reported that he will work with Ms. Warden and the Fire District and report back to the Committee.

b. PZC 2020-04 7729 Warwick Ave - Petitioners seek approval of a variation to Section 5A-7-2-6(A) of the City Zoning Code requiring a 35 foot front yard setback, for a proposed porch addition to the existing house at 7729 Warwick Avenue in Darien, Illinois.

Mr. Joe Hennerfeind, Senior Planner reported that the petitioner's Linda and Dan Gombac are proposing a remodel of an existing home with an established setback. He reported that the proposed porch will be a prominent architectural entry feature to the home. He reported that the PZC reviewed the request and voted unanimously in favor of the request.

Alderman Gustafson stated that homes in the area have done the same thing.

Mr. Gombac reported that they spoke to the neighbors in the area informing them of the project.

There was no one in audience wishing to present public comment.

Alderman Gustafson made a motion and it was seconded by Alderman Kenny approval of PZC 2020-04 7729 Warwick Avenue - a variation to Section 5A-7-2-6(A) of the City Zoning Code requiring a 35 foot front yard setback, for a proposed porch addition to the existing house at 7729 Warwick Avenue in Darien, Illinois.

Upon voice vote, THE MOTION CARRIED 3-0.

c. Ordinance – Approval amending the liquor code to expand the number of Class K liquor licenses from two (2) to three (3) for beer and wine sales at Broosters of Darien LLC.

Mr. Dan Gombac, Director reported that in 2016 the City Council passed ordinance O-12-16 amending the liquor code by periodically auditing the number of licenses in several classes so that there are no (open) licenses available that are not assigned to a particular business. He reported that the liquor licenses are updated as new requests are generated from businesses.

Mr. Gombac reported that Mayor Marchese received a request from Broosters of Darien LLC for a beer and wine liquor license for on-site consumption only. He reported that the restaurant is under new ownership, Mirko Sajic and that the license required for the request would be a K License and would increase the number of K licenses to 3 licenses. He further reported that Mayor Marchese as Liquor Commissioner has indicated he does not oppose the request and that Mr. Sajic has agreed to the non-gaming agreement.

There was no one in audience wishing to present public comment.

Alderman Belczak made a motion and it was seconded by Alderman Gustafson approval of an Ordinance amending the liquor code to expand the number of Class K

liquor licenses from two (2) to three (3) for beer and wine sales at Broosters of Darien LLC.

Upon voice vote, THE MOTION CARRIED 3-0.

d. Ordinance - Approval to permit the construction of 2 (two) electronic message board signs adjacent Cass Avenue and Plainfield Road, located within the B-2 Community Shopping Center Business District.

Mr. Joe Hennerfeind, Senior Planner reported that the Planning and Zoning Commission reviewed this petition at their public hearing on June 3rd and raised similar issues from previous presentations regarding overall size, number, and setbacks of signs. He reported that the renegotiated Lease terms were presented, as well as conditions for the installation of the second sign and that a negative recommendation was forwarded with a voting record of 1-8 and that an amended motion was made to consider only one sign, which received a positive recommendation of 5-4.

Mr. Dan Gombac, Director reported that approval to permit the construction of one electronic message board sign with conditional approval for a second sign subject to provisions, approval of infrastructure and foundation for the second sign may be completed with initial construction and prior to the construction of second sign, and signage shall be subject to additional approval by Council ordinance. He reported that in the event a second sign is not requested or constructed, variation approvals for the second sign will expire one (1) year after the date the first signage becomes operational.

Mr. Gombac reported that the Lease Agreement has been revised to reduce the lease term to 10 years (from 25 years with options for automatic renewals) and provides the City with a second 10- second spot with opportunities to allow non-profits within the City to utilize.

Alderman Kenny stated that from day one he did not want the sign and that he is not in favor of a 12 ft. sign at the corner.

Mr. Gombac reported that the sign is 7 ft but 12 ft with the base.

Alderman Gustafson stated that that the sign will block the headlights from the drive thru. He stated that he will not be in favor of a sign at that corner that is paid for by the City.

Mr. Gombac reported that the cost to the City for sign with a water feature and landscaping will be approximately \$35,000.

Alderman Belczak stated that he is favor of one sign.

There was no one in the audience wishing to present public comment.

Alderman Belczak made a motion and it was seconded by Alderman Gustafson approval of an Ordinance to permit the construction of 1 electronic message board sign with infrastructure and foundation for a second sign adjacent Cass Avenue and Plainfield Road, located within the B-2 Community Shopping Center Business District.

Upon voice vote, THE MOTION CARRIED 2-1. Alderman Kenny voted Nay.

- e. Ordinance Approval authorizing an Easement Agreement (Northwest Corner of Cass Avenue and Plainfield Road at 7532 Cass Avenue, PIN# 09-28-402-025)
- f. Resolution Approval for a Digital Sign Agreement within a dedicated easement at the northwest corner at 7532 Cass Avenue, PIN# 09-28-402-025;

Mr. Gombac reported that the proposed sign, subject to final approval, requires an agreement for the opportunity to work and display media with the property owner and Chicago Billboards at the northwest corner of the property located at 7532 Cass Ave. He provided information on the agreement and noted that the details were in the agenda memo.

Mr. Gombac reported that the City will have the opportunity to display 1-10 second slot per marquee and a second 10 second slot, which is intended to provide Darien non-profits the opportunity to advertise at no cost. He reported that Chicago Billboard will manage, edit, and display information as forwarded by a designated City representative and that the lease term will be 10 years from date of completed construction, with no options for successive agreements in the lease. He further reported that Chicago Billboards will be responsible for all maintenance within the dedicated easement including the landscape water feature and general landscaping and that there shall be no cost to the City for ongoing or future maintenance.

There was no one in audience wishing to present public comment.

Alderman Belczak made a motion and it was seconded by Alderman Gustafson approval of an Ordinance authorizing an Easement Agreement (Northwest Corner of Cass Avenue and Plainfield Road at 7532 Cass Avenue, PIN# 09-28-402-025) and approval of a Resolution for a Digital Sign Agreement within a dedicated easement at the northwest corner at 7532 Cass Avenue, PIN# 09-28-402-025;

Upon voice vote, THE MOTION CARRIED 2-1. Alderman Kenny voted Nay.

g. Resolution - Approving a Plat of Utility Easement Vacation for 8801 Gleneagles Lane PIN #10-05-205-024.

Mr. Joe Hennerfeind reported that the homeowners recently purchased a pool and simultaneously applied for a building permit and that during the review process it was identified that the pool was to be constructed within a public utility easement and also as a detention basin for the area. He reported that to the proximity of the public utility easement to the home, a pool would not be able to be installed without encroaching into the easement.

Mr. Hennerfeind reported that the existing property is .51 acres and the current patio is approximately 25-feet from the rear of the home and that the proposed deck would be primarily constructed outside the easement with the pool encroaching into the easement 22.50 x 30 foot wide. He reported that staff has coordinated efforts with the homeowner and their

engineer with a solution to allow the construction of the pool and the deck which include vacation of the existing easement and compensatory storage.

There was no one in audience wishing to present public comment.

Alderman Gustafson made a motion and it was seconded by Alderman Kenny approval of a Resolution approving a Plat of Utility Easement Vacation for 8801 Gleneagles Lane PIN #10-05-205-024.

Upon voice vote, THE MOTION CARRIED 3-0.

h. Minutes – February 24, 2020 Municipal Services Committee

There was no one in the audience wishing to present public comment.

Alderman Belczak made a motion and it was seconded by Alderman Gustafson approval of the February 24, 2020 Municipal Services Committee Meeting Minutes.

Upon voice vote, the MOTION CARRIED UNANIMOUSLY.

DIRECTOR'S REPORT

Mr. Gombac reported on upcoming solar panel proposal.

NEXT SCHEDULED MEETING

Chairperson Belczak announced that the next meeting is scheduled for Monday, July 27, 2020.

ADJOURNMENT

With no further business before the Committee, Alderman Belczak made a motion and it was seconded by Alderman Kenny to adjourn. Upon voice vote, THE MOTION CARRIED unanimously, and the meeting adjourned at 7:03 p.m.

RESPECTFULLY SUBMITTED:

Thomas Belczak Chairman	Eric Gustafson Alderman	
 Joseph Kenny		