

#### Thursday, March 24, 2022

### **\*\*PLEASE MUTE YOUR MICROPHONE\*\***

Julie Trott, Commission Chair Donald Petit, Secretary

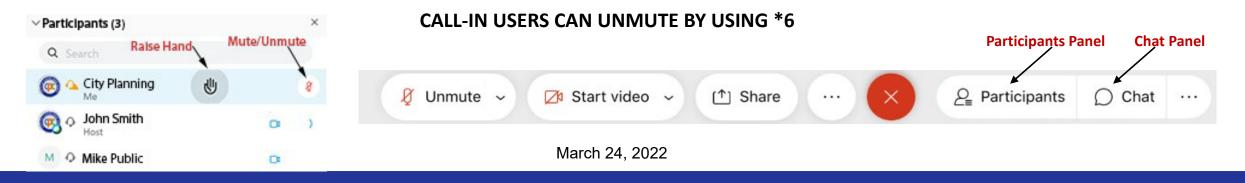
Preamble

IN COMPLIANCE WITH NOTIFICATION REQUIREMENTS OF OHIO'S OPEN MEETING LAW AND SECTION 101.021 OF THE CODIFIED ORDINANCES OF CLEVELAND, OHIO, 1976, NOTICE OF THIS MEETING HAS BEEN PUBLICLY POSTED.

ALL BOARDS AND COMMISSIONS UNDER THE PURVIEW OF THE CITY PLANNING DEPARTMENT CONDUCTS ITS MEETINGS ACCORDING TO ROBERT'S RULES OF ORDER. ACTIONS DURING THE MEETING WILL BE TAKEN BY VOICE VOTE. ABSTENTIONS FROM ANY VOTE DUE TO A CONFLICT OF INTEREST SHOULD BE STATED FOR THE RECORD PRIOR TO THE TAKING OF ANY VOTE.

IN ORDER TO ENSURE THAT EVERYONE PARTICIPATING IN THE MEETING HAS THE OPPORTUNITY TO BE HEARD, WE ASK THAT YOU USE THE RAISE HAND FEATURE BEFORE ASKING A QUESTION OR MAKING A COMMENT. THE RAISE HAND FEATURE CAN BE FOUND IN THE PARTICIPANTS PANEL ON THE DESKTOP AND MOBILE VERSION AND ACTIVATED BY CLICKING THE HAND ICON. PLEASE WAIT FOR THE CHAIR OR FACILITATOR TO RECOGNIZE YOU AND BE SURE TO SELECT UNMUTE AND ANNOUNCE YOURSELF BEFORE YOU SPEAK. WHEN FINISHED SPEAKING, PLEASE LOWER YOUR HAND BY CLICKING ON THE RAISE HAND ICON AGAIN AND MUTE YOUR MICROPHONE.

WE WILL ALSO BE UTILIZING THE CHAT FEATURE TO COMMUNICATE WITH PARTICIPANTS. THE CHAT FEATURE CAN BE ACTIVATED BY CLICKING THE CHAT BUTTON LOCATED ON THE BOTTOM OF THE WEBEX SCREEN.

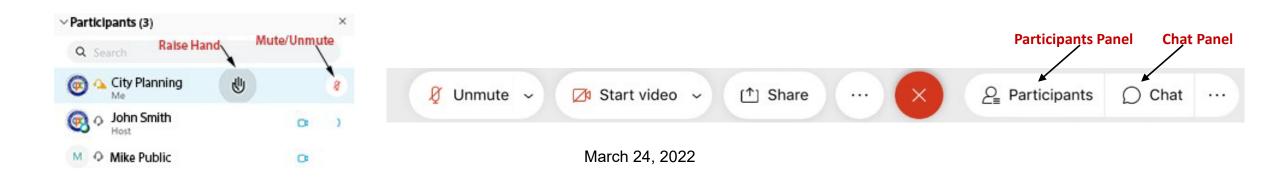


Preamble

## ALL MEETING ACTIVITY IS BEING RECORDED VIA THE WEBEX PLATFORM. THESE PROCEEDINGS ARE ALSO BEING <u>LIVE STREAMED</u> VIA YOUTUBE.

#### ALL REQUESTS TO SPEAK ON A PARTICULAR MATTER VIA OUR WEBSITE AND EMAIL HAVE BEEN CONSIDERED.

#### WE HAVE ALSO RECEIVED EMAILS FROM THOSE WHO HAVE PROVIDED WRITTEN COMMENT ON A PARTICULAR MATTER.



# Call to Order & Roll Call



# **Certificates of Appropriateness**



March 24, 2022

CLEVELOVA

March 24, 2022

### Case 22-004: Rockefeller Park (Concept Plan 1/13/22) Jesse Owens Olympic Oak Plaza Martin Luther King, Jr. Drive Landscaping and Site Improvements Ward 7: Howse Project Representatives: Elise Yablonsky, University Circle, Inc.; Jayme Schwartzberg, DERU Landscape Architecture; Angelica Pozo, Artist



### Jesse Owens Olympic Oak Plaza in Rockefeller Park Plan Update and Art Review University Circle, Inc.

Angelica Pozo, Artist DERUlandscape architecture 812 Huron Road E, #411 Cleveland. OH 44115 | 216.466.4355

Cleveland Landmarks Commission | 03.24.22



## Agenda

I. Welcome II. Project Introduction III. Project Timeline IV. Plan Update V. Public Art Approach

#### Olympic Oak Trees

Owens was given 4 Olympic Oak trees at the 1936 Olympics – one for each gold medal. He planted one at his mother's house in Cleveland, one at Rhodes High School, one at OSU, and he claimed that one died before he could plant it.

The tree at Rhodes High School is the only confirmed surviving Olympic Oak Tree.

The English Oak at Rhodes High School has been aging, and in 2017 the tree was cloned and propagated at the Holden Arboretum, where it currently resides.

New clone from original tree planted in Rockefeller Park April 2021.



Photos of Owens' Olympic Oak Tree (from Associated Press, Freshwater Cleveland



## Rockefeller Park Jesse Owens Olympic Oak Timeline

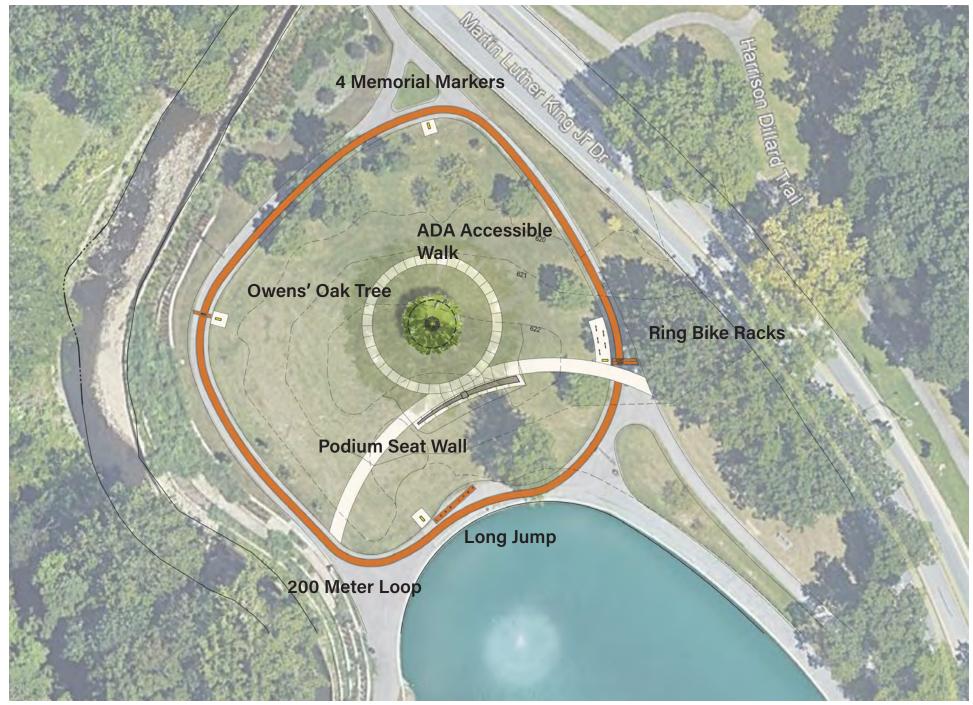
- Summer 2020 Rockefeller Park location identified
- Fall 2020 Conceptual planning for tree location and plaza
- April 2021 Jesse Owens Olympic Oak Tree planted
- June 2021 Public engagement at Rockefeller Park Lagoon
- September 2021 Base funding secured, design process continues
- December 2021 Virtual Community Meeting, City Council and Planning Commission approval secured for property adoption agreement
- January 2022 Conceptual Approval from the Landmarks Commission, Launch of Website for Community Responses
- February 2022 Project Bidding
- Spring 2022 Plaza Groundbreaking



#### Plaza Location Map



#### Proposed Plaza Design (Approved by Landmarks Commission 01/13/22)

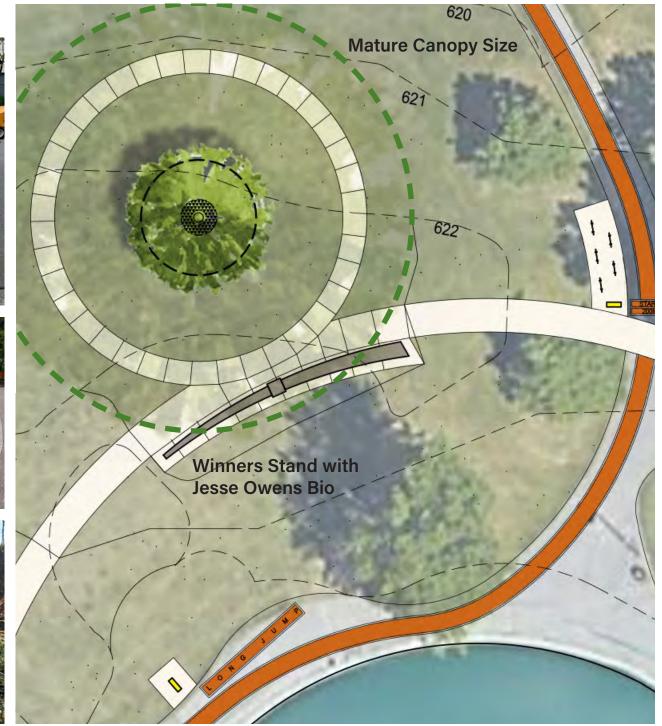


#### Details

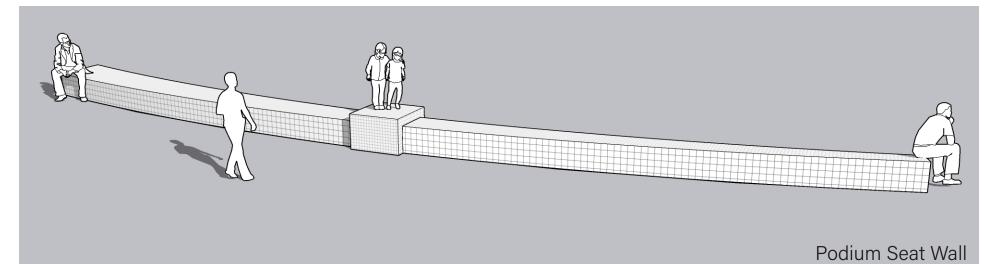








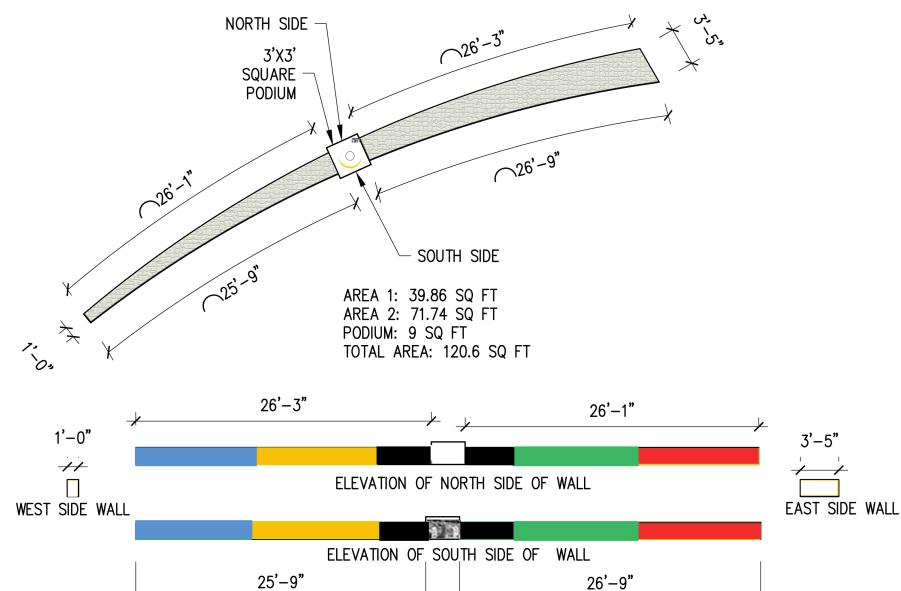
#### Tiled Winner's Stand and Memorial Markers



Wencial Marker

# Jesse Owens Olympic Oak Memorial

Art Proposal Angelica Pozo



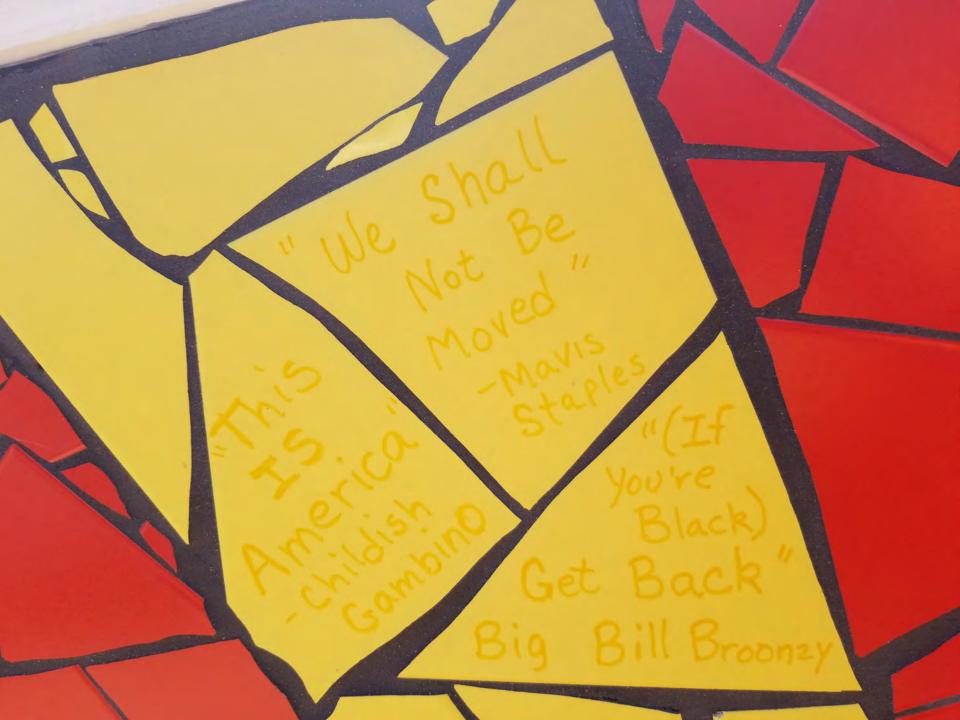
≁

SCALE: 1" = 8-0"0' 4' 8' 16'









"We all have dreams. But in order to make dreams come into reality, it takes an awful lot of determination, dedication, self-discipline, and effort." – Jesse Owens

### What Are Your Dreams?

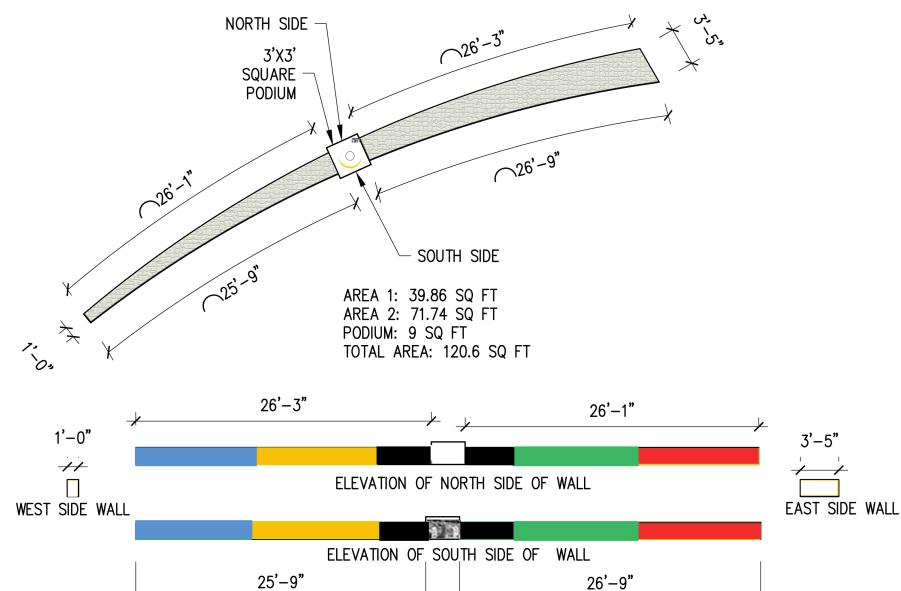
"The battles that count aren't the ones for gold medals. The struggles within yourself - the invisible, inevitable battles inside all of us - that's where it's at." – Jesse Owens

What Is Your Invisible Battle?

# NATURAL HUES<sup>TM</sup> Two Library Cards and Chip Chest (size 10x14)



You can order your Natural Hues Library Cards / Chip Chest online



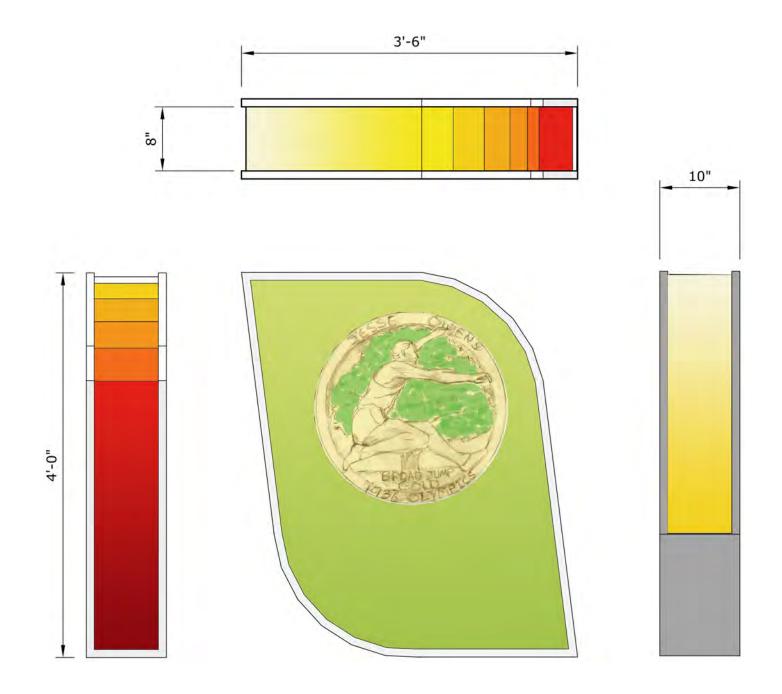
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SCALE: 1" = 8-0"0' 4' 8' 16' North side of Podium: "Jesse Owens Olympic Tree Plaza, etc.." with image of depiction of Olympic rings

South Side of Podium: photo below

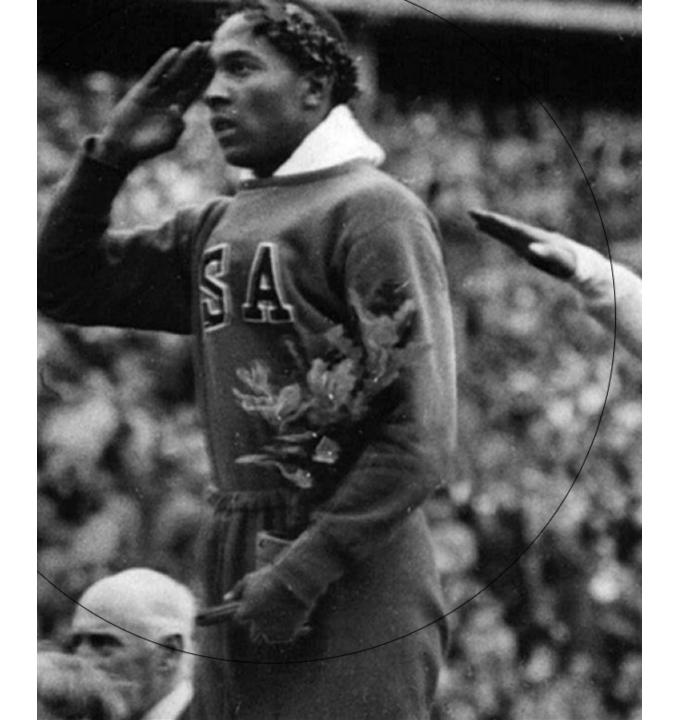


# Markers

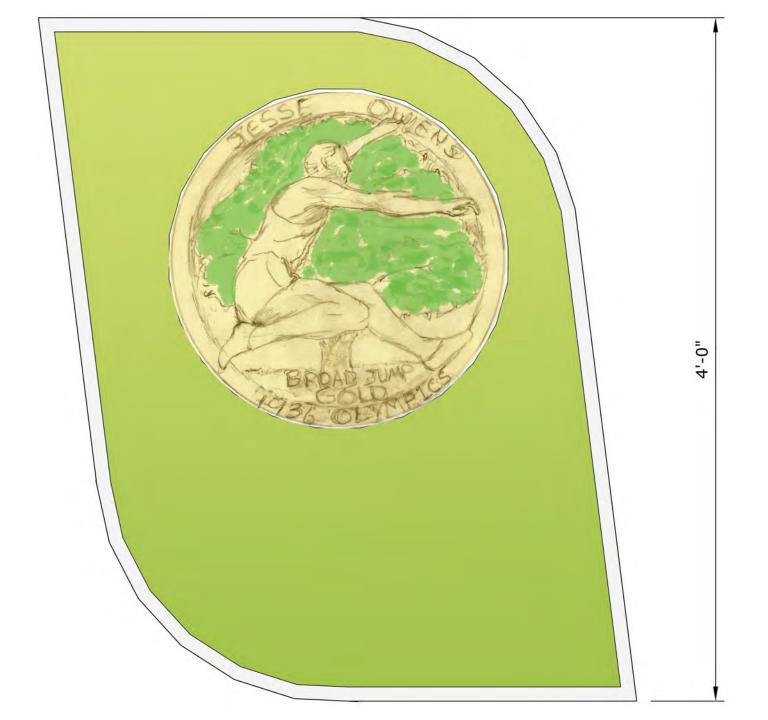




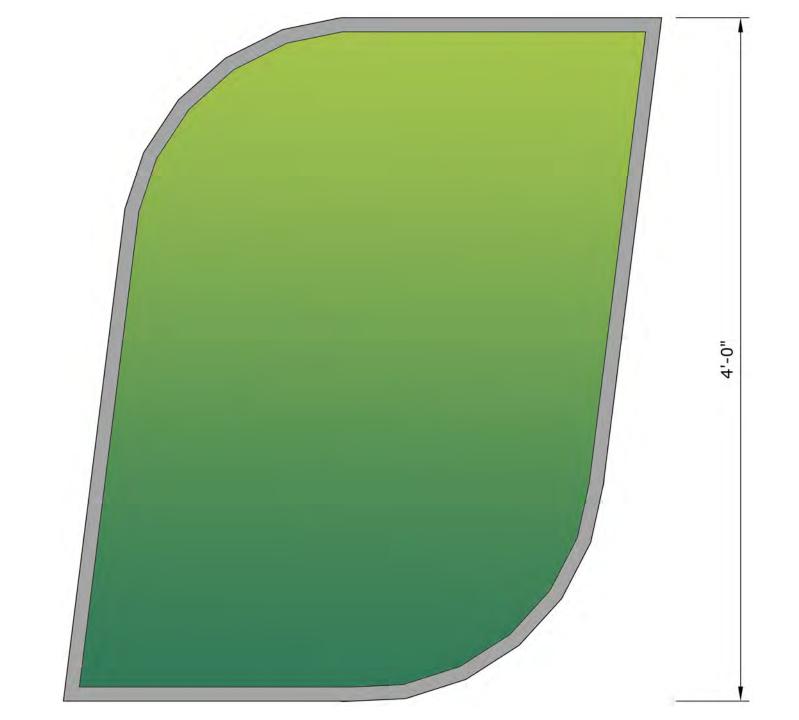




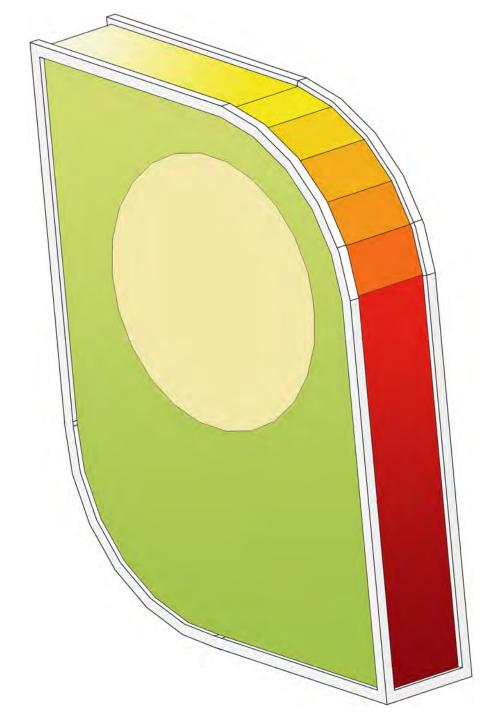


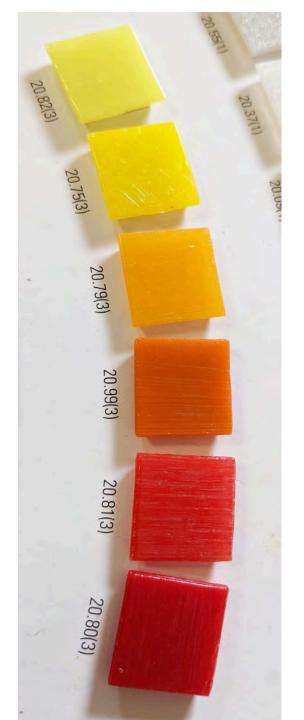
















Unità d'ordine

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de pedido: 1,29



81–1965) was a woman's suffragist, educator, and pro-Warren created a legacy of civil service plitics, and public health.

Septima Poinsette Clark Septima Poinsette Clark (May 3, 1898 – December 15, 1987) was a black American educator and civil rights activist. Clark developed the literacy and citizenship workshops that played an important role in the drive for voting rights and civil rights for African Americans in the Civil Rights Movement. Movement.

Reverend Dr. Anna Howard Shaw Anna Howard Shaw (February 14, 1547 - July 2, 1919) was a leader of the wamen's suffrage movement in the United States. She was also a physician and one of the first ordained female Methodist ministers in the United States



March 24, 2022

# **Case 22-023:** Ohio City Historic District (Concept Plan 2/10/22) **Wells Residence 4612 Clinton Avenue**

New Construction of a Single-Family House

Ward 3: McCormack

Project Representatives: Chris Rood, Architect; Anthony Kucia, CCBR, Developer

# WELLS RESIDENCE

4612 CLINTON AVENUE LANDMARKS DESIGN SUBMISSION MARCH 24, 2022

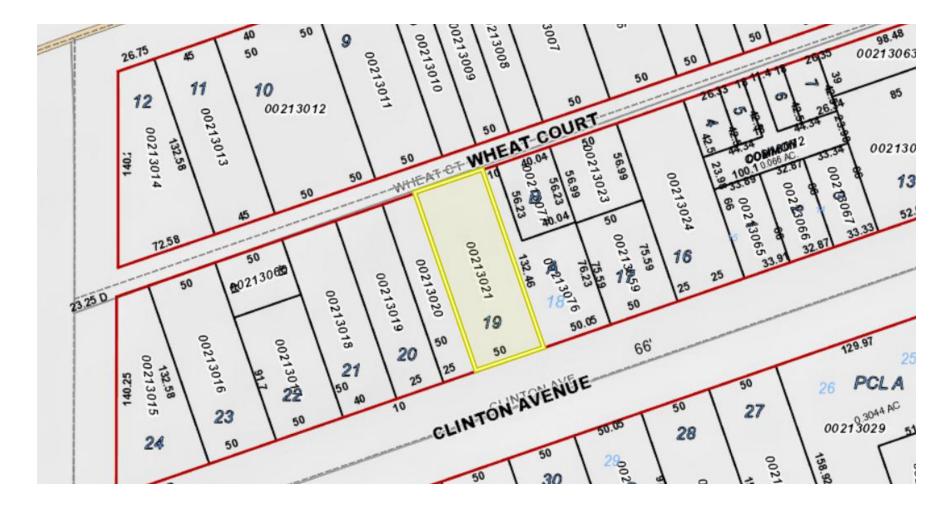


#### **Existing Conditions** | Conceptual Design



#### LOCATION: 4612 CLINTON AVENUE

PARCEL #: 00213021 ZONING: TWO-FAMILY ZONING CODE: 2F-B1 AREA DISTRICT: B HEIGHT DISTRICT: 1 MAX. HEIGHT: 35' (UP TO 50' W/ APPROPRIATE SETBACKS) PROPOSED HEIGHT: 29'-10"



## **Existing Conditions** | South Property Line







## Existing Conditions | North Property Line





**Existing Conditions** | Neighborhood Context

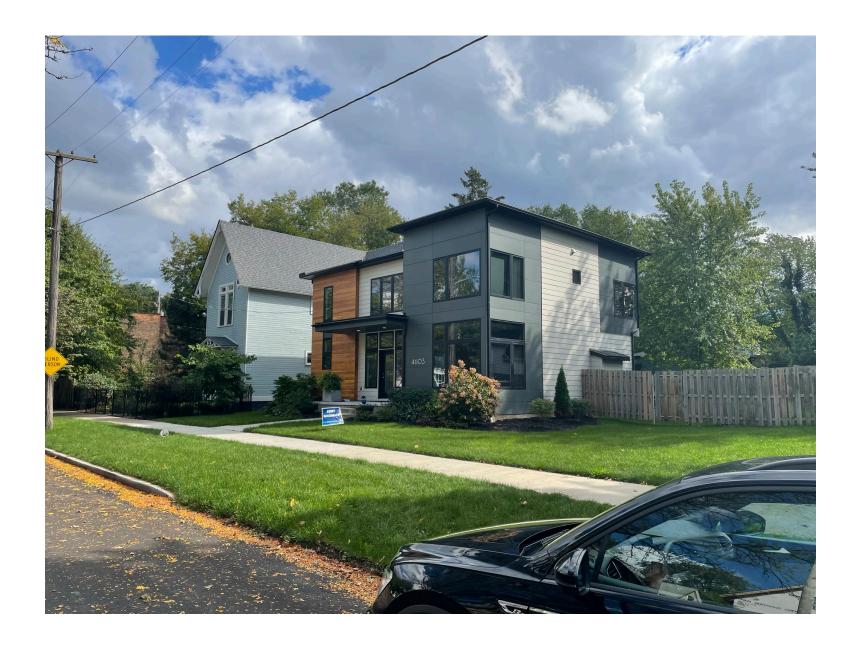








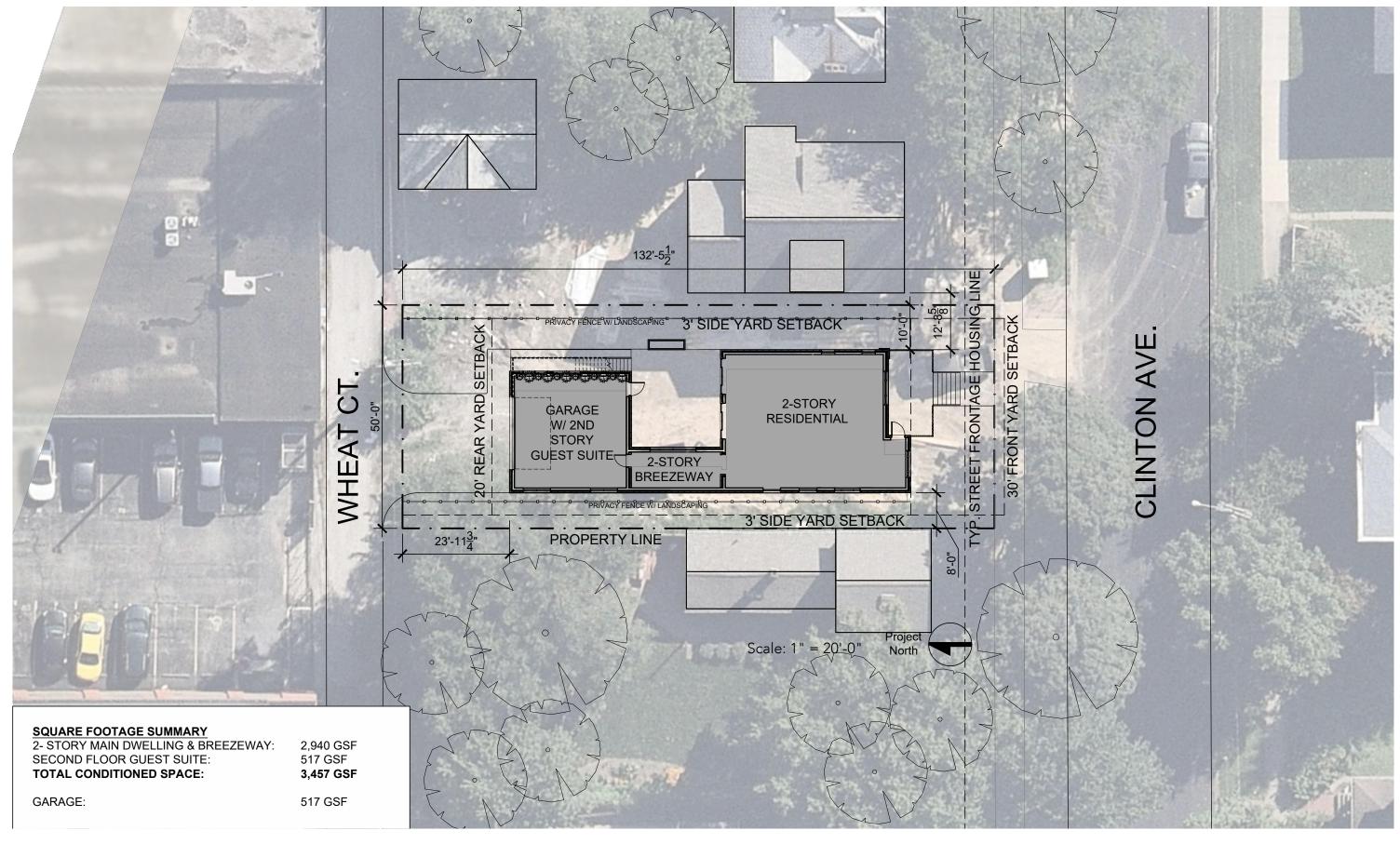
## **Existing Conditions** | Neighborhood Context



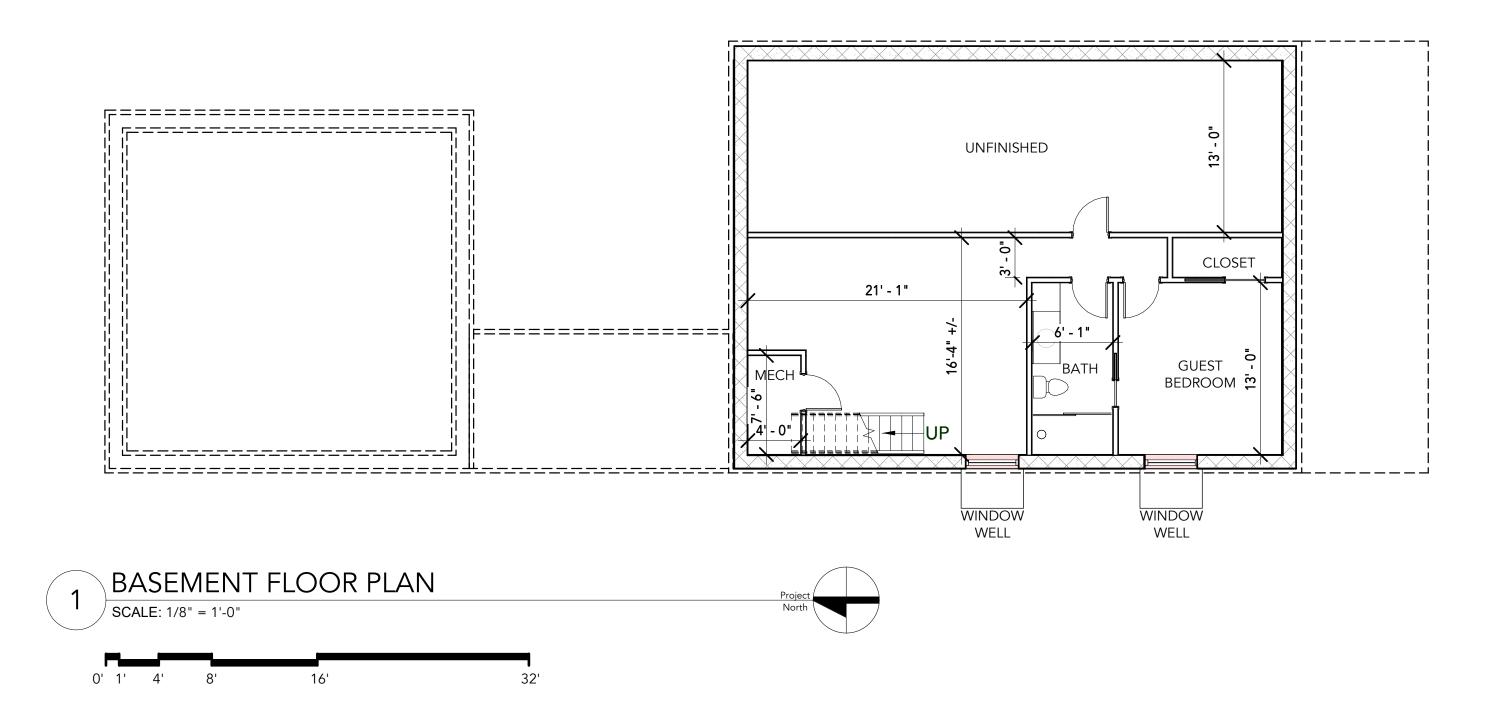




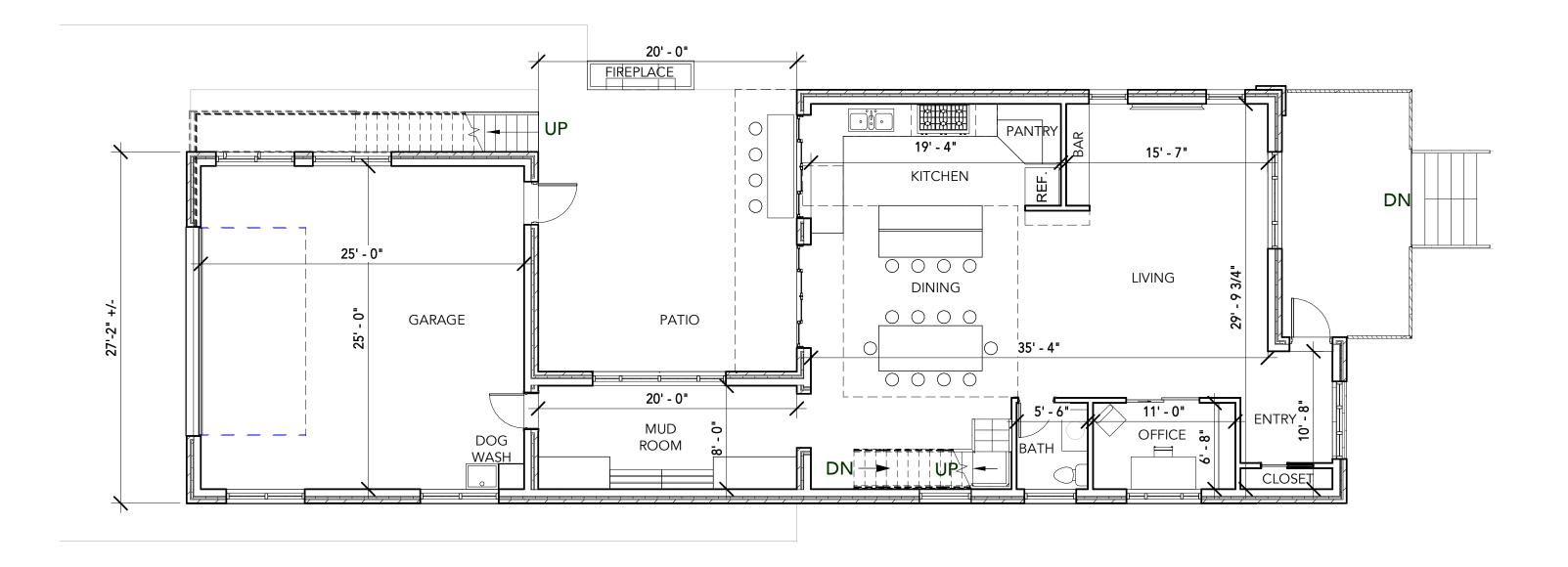
#### Site Plan | Conceptual Design

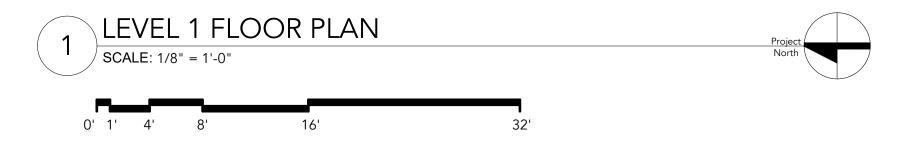


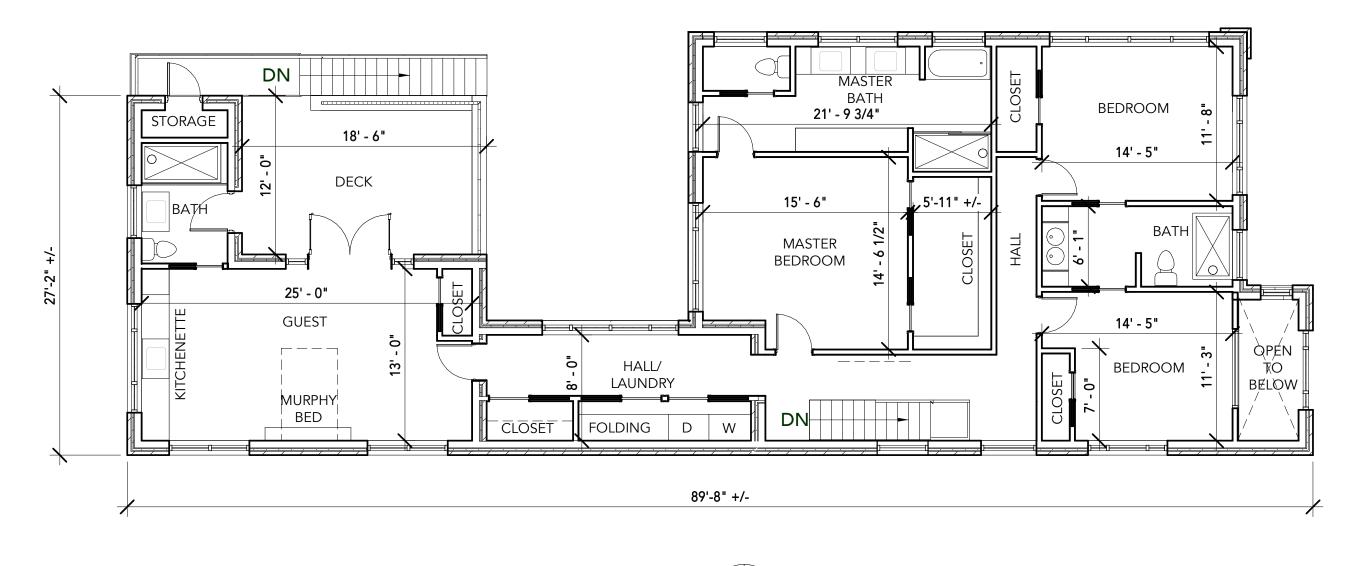
## Basement Plan | Conceptual Design

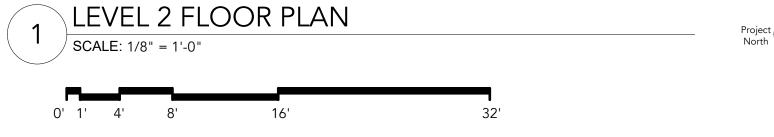


#### First Floor Plan | Conceptual Design









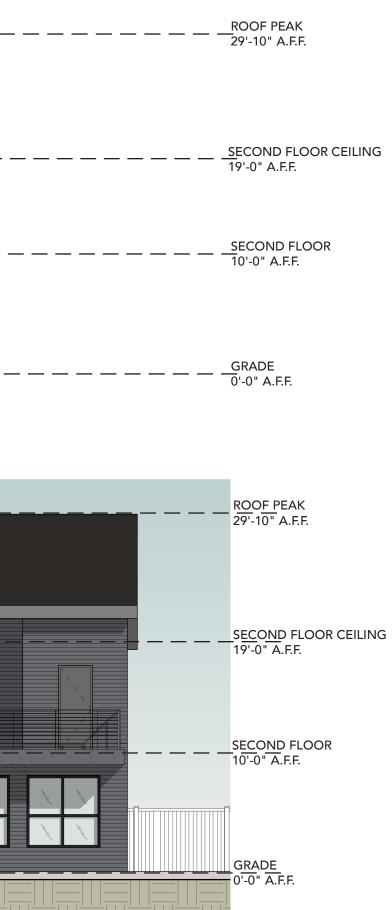
Elevations | Conceptual Design

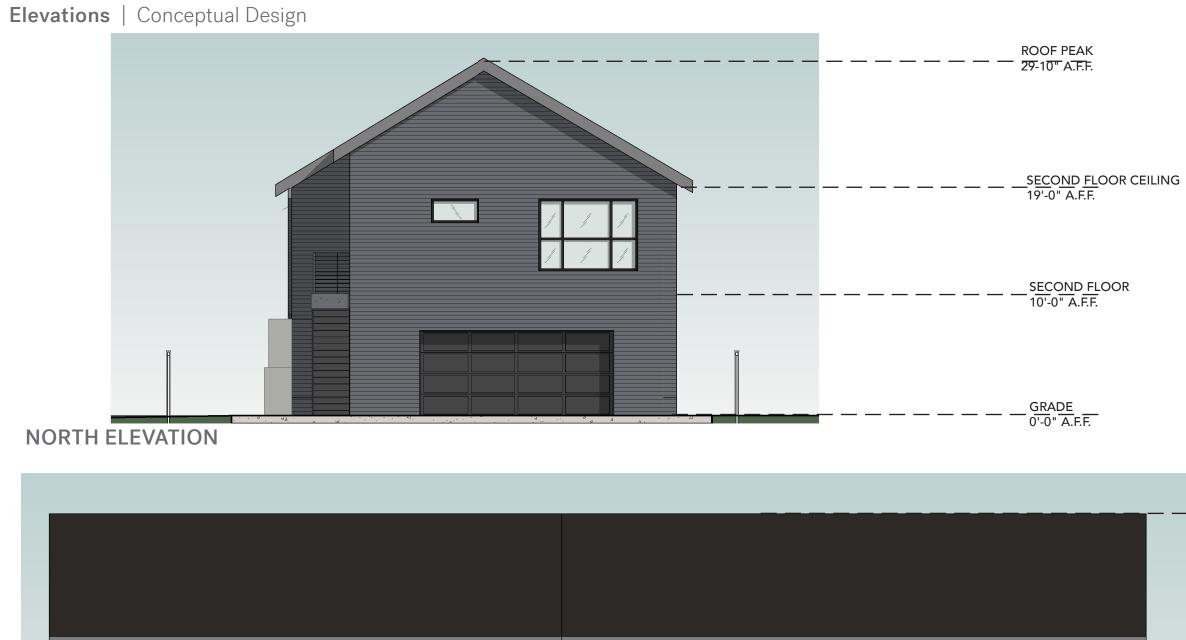


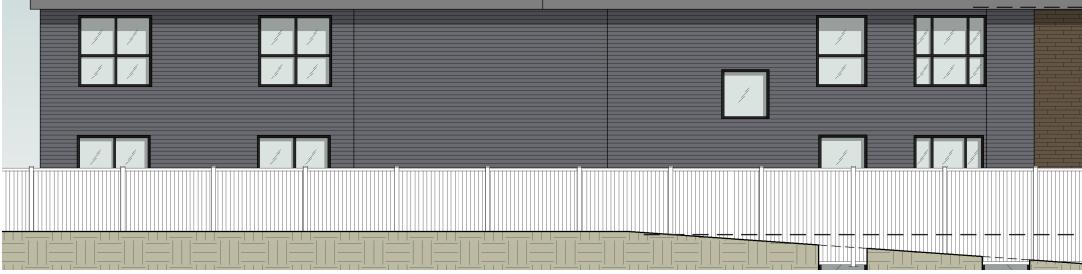
SOUTH ELEVATION



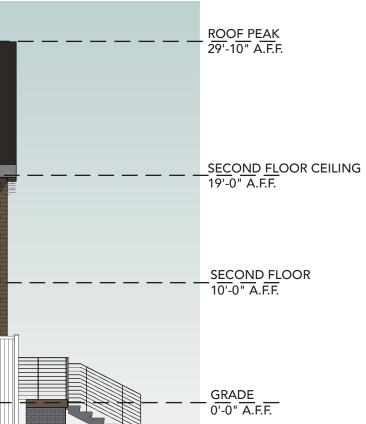
WELLS RESIDENCE | OHIO CITY SUBMISSION







WEST ELEVATION WELLS RESIDENCE | OHIO CITY SUBMISSION



#### **Context Elevation** | Conceptual Design



SOUTH CONTEXTUAL ELEVATION

## Proposed Material Palette | Neighborhood Context



GREY MODULAR FACE BRICK, RUNNING BOND





NICHIHA VINTAGE WOOD CEDAR FIBER CEMENT PANEL

GREY FIBER CEMENT PANELED SIDING

## Exterior Perspective | Conceptual Design



## **Exterior Perspective** | Conceptual Design





## **Exterior Perspective** | Conceptual Design



## **Cleveland Landmarks Commission**

## **Design Review**



March 24, 2022

#### Ohio City Historic District Design Review Committee (Advisory committee to the <u>Landmarks Commission</u>) Certificate of Appropriateness Review

 Date:
 03-17-22
 File Number:
 031722-1

 Building / Project Name:
 4612 Clinton New Construction

 Property Address:
 4612 Clinton Ave Parcel #:

 Property Owner:
 Presenters:
 Chris Rood

 Historic Designation:
 □ Not Designated
 ☑ Local Landmarks District
 □ Landmark Building

#### **Specifications of work proposed:**

New construction – Final approval

#### **Recommendations of Design Review Committee:**

No quorum, no vote taken. Seen two times previous.

Margaret Lann, Marika Clark, Antonia Marinucci all present. Three present committee members agreed that if

roof pitch was heightened, garage door and staircase color darkened, they would recommend approval.

#### Notes/Comments:

MC & ML appreciated the simplification of window choices and materials. ML stated that the grey brick

material on foundation & darker mortar matches better than previous iteration of project.

AF & CL were not at meeting but provided written feedback, stating that the window style and roof pitch were still not acceptable and needed to be addressed.

Owner unwilling to concede on grey brick color or windows as is. Applicant has previously made significant changes to the project based on design review feedback.

#### **Design Review Committee Record:**

Alex Frondorf	□ Not Present	□ In-Favor	$\Box$ Opposed	🗆 Table	$\Box$ Abstain
Antonia Marinucci	🗆 Not Present	🗆 In-Favor	Opposed	🗆 Table	🗆 Abstain
Doug Wahl	🗆 Not Present	□ In-Favor	$\Box$ Opposed	🗆 Table	🗆 Abstain
Margaret Lann	🗆 Not Present	🗌 In-Favor	$\Box$ Opposed	🗆 Table	🗌 Abstain
Chris Loeser	🗆 Not Present	🗌 In-Favor	$\Box$ Opposed	🗆 Table	🗆 Abstain
Marika Shiori-Clark	🗆 Not Present	🗆 In-Favor	Opposed	🗆 Table	🗆 Abstain

Required to present at Cleveland Landmarks Commission? 

Yes 
No Date: na

The Ohio City Design Review Committee is staffed by, but independent of Ohio City Incorporated. The Ohio City Design Review Committee is an advisory body to the Cleveland Landmarks Commission, and while this certificate signifies a recommendation to the Cleveland Landmarks Commission it does not signify approval by the Cleveland Landmarks commission nor any other City department or board.



March 24, 2022

## Case 22-026: Gordon Square Historic District (Concept Plan 2/24/22)

#### Waverly & Oak Phase 2 5416 Detroit Avenue

New Construction Concept of a Pocket Park/Plaza and Petite Commercial Development Ward 15: Spencer Project Representatives: Justin Strizzi, Developer, Bond Street Group; Gary Ogrocki,

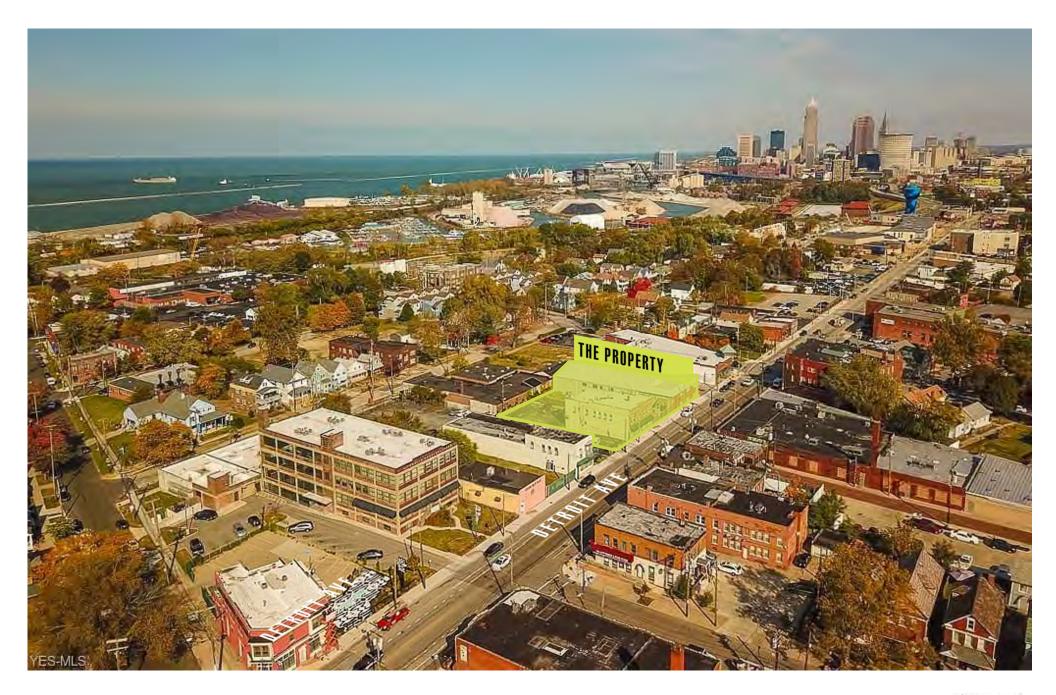
Dimit Architects



March 24, 2022

Case 22-027: Gordon Square Historic District (Concept Plan 2/24/22)
Waverly & Oak Phase 2 5416 Detroit Avenue
Demolition of a Commercial Building
Ward 15: Spencer
Project Representatives: Justin Strizzi, Developer, Bond Street Group; Gary Ogrocki, Dimit Architects







BOND STREET

DIMITARCHITECTS architecture + interiors + urban design December 2, 2021







BOND STREET

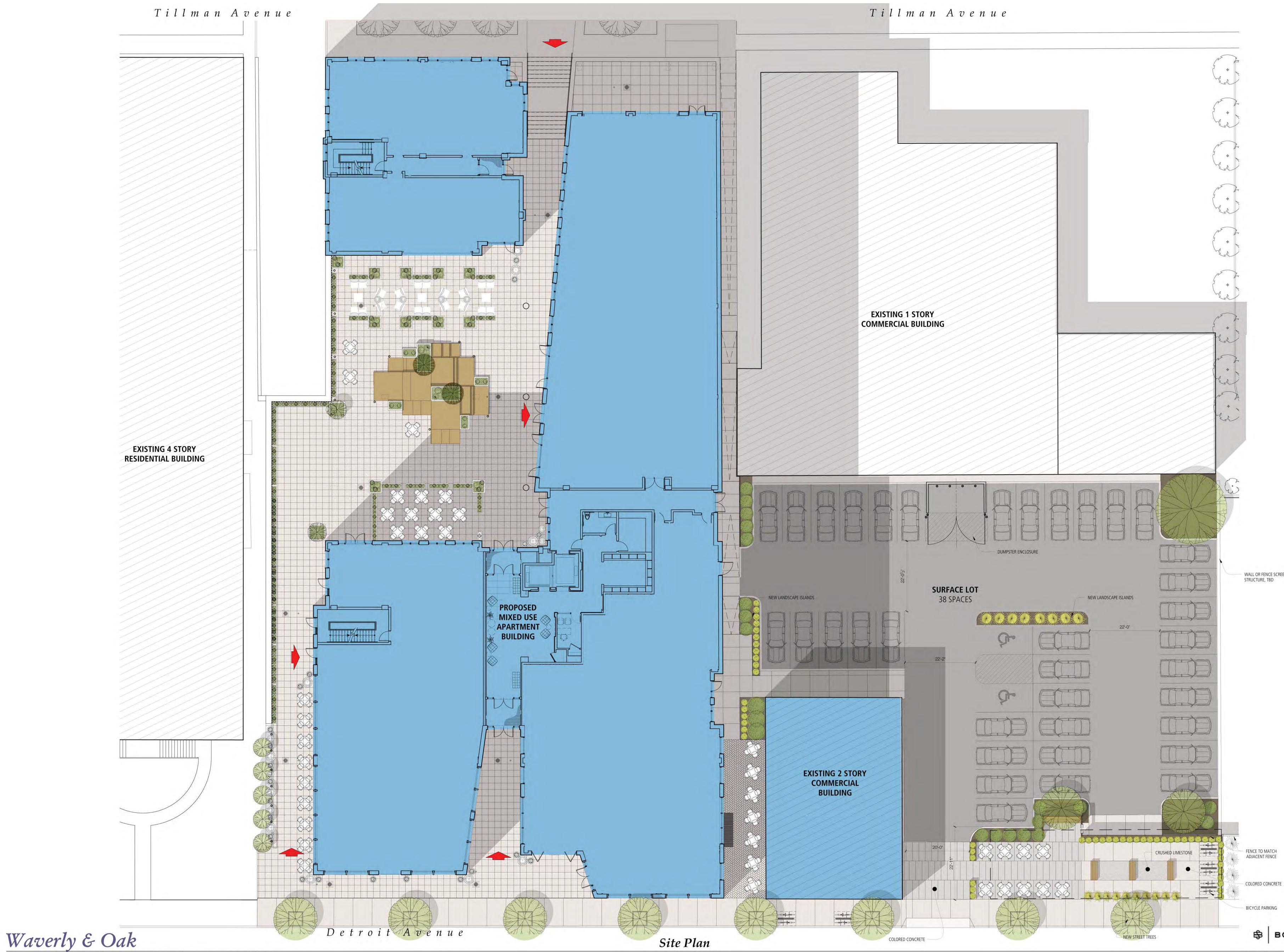


Waverly & Oak Gordon Square Neighborhood, Cleveland, Ohio









Gordon Square Neighborhood, Cleveland, Ohio

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

DIMITARCHITECTS architecture + interiors + urban design December 2, 2021

BOND STREET

WALL OR FENCE SCREENING STRUCTURE, TBD

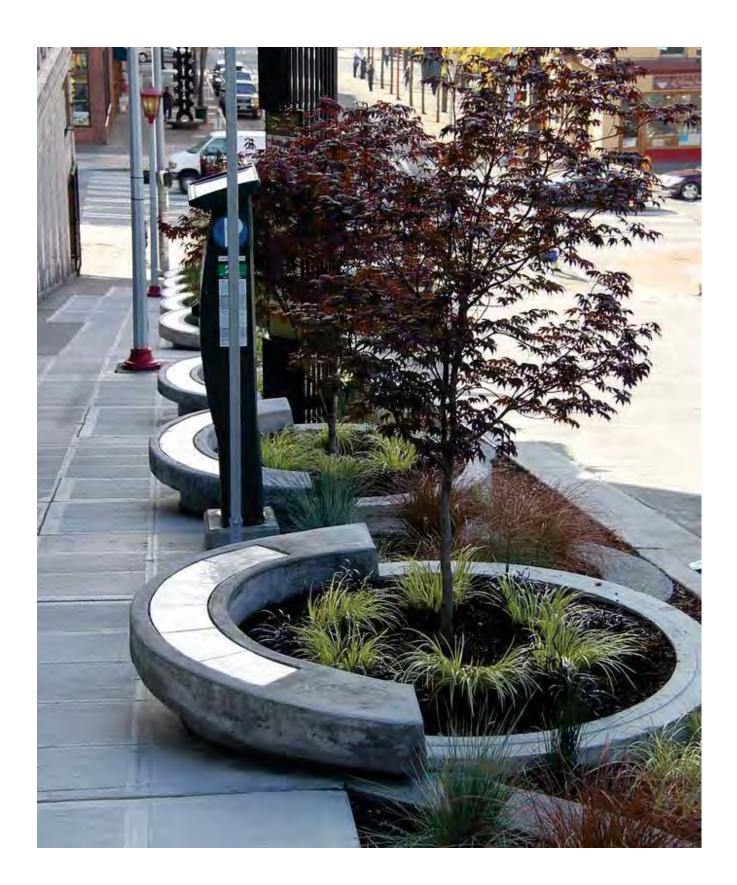


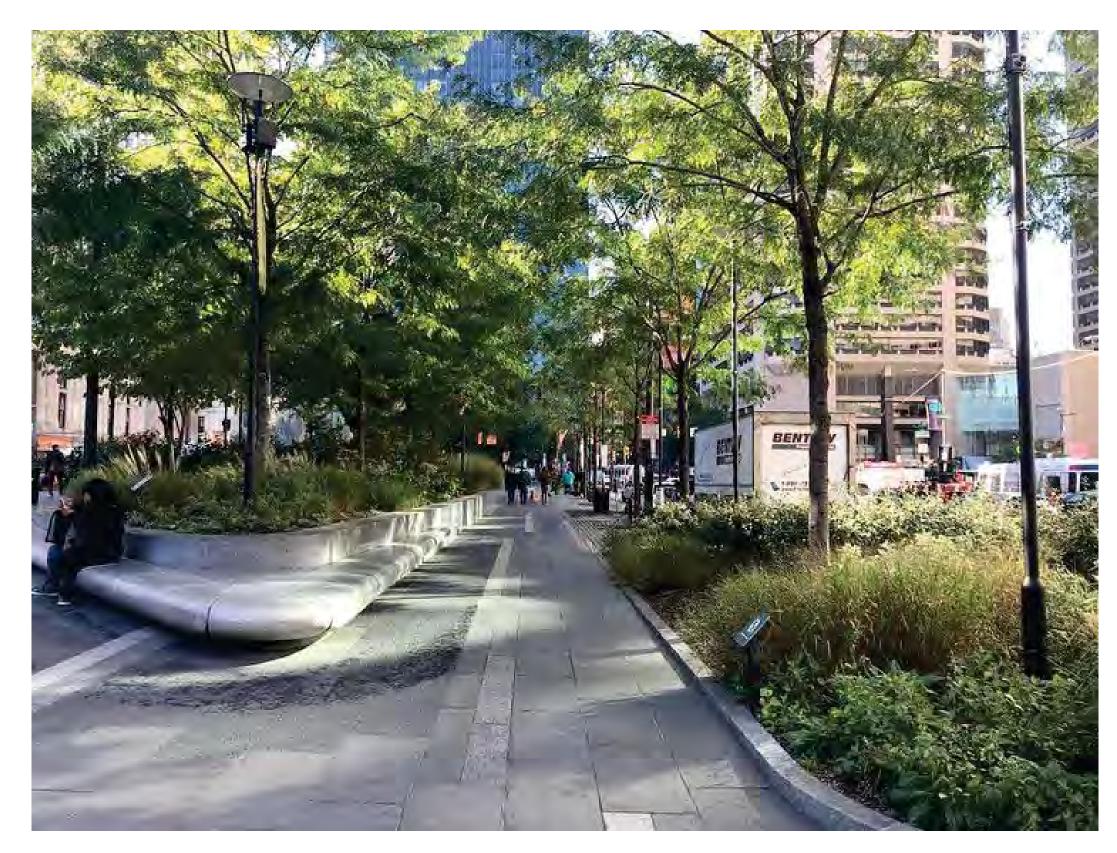
Waverly & Oak Gordon Square Neighborhood, Cleveland, Ohio WALL OR FENCE SCREENING

BOND STREET

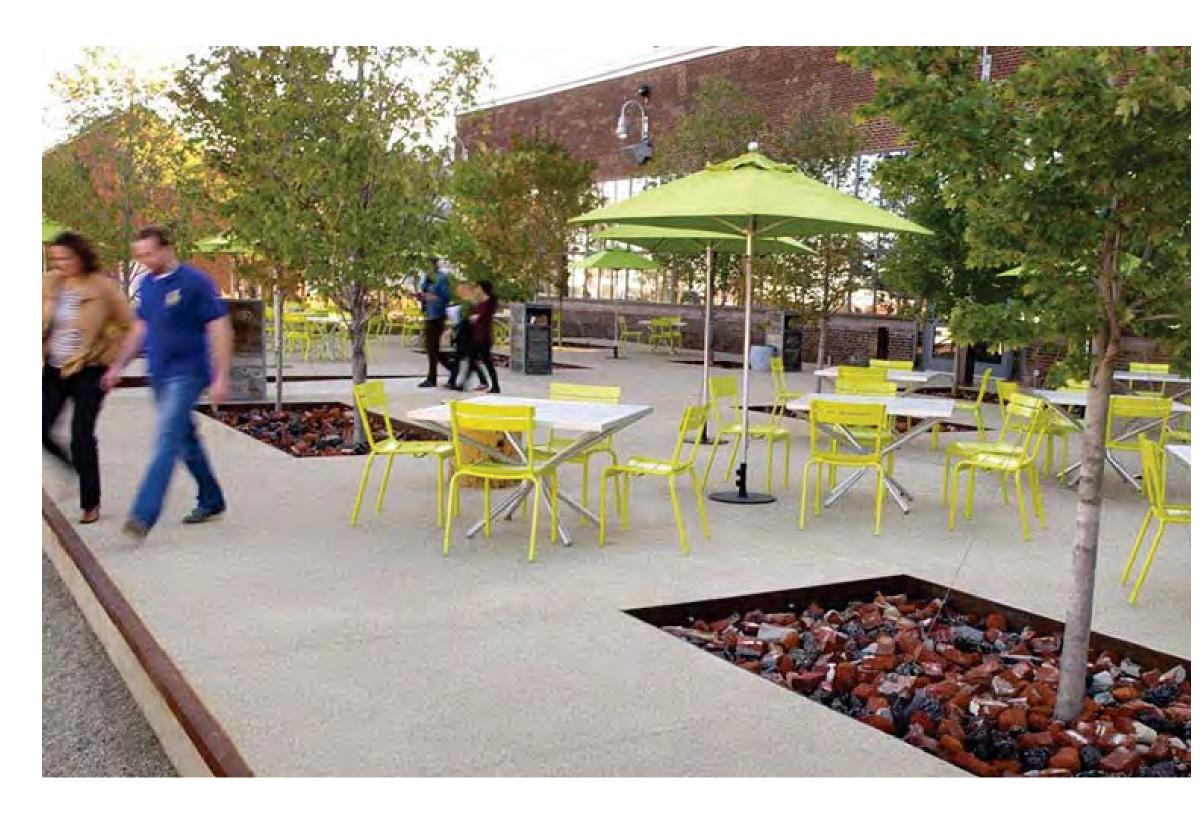
DIMITARCHITECTS architecture + interiors + urban design March 2, 2022

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

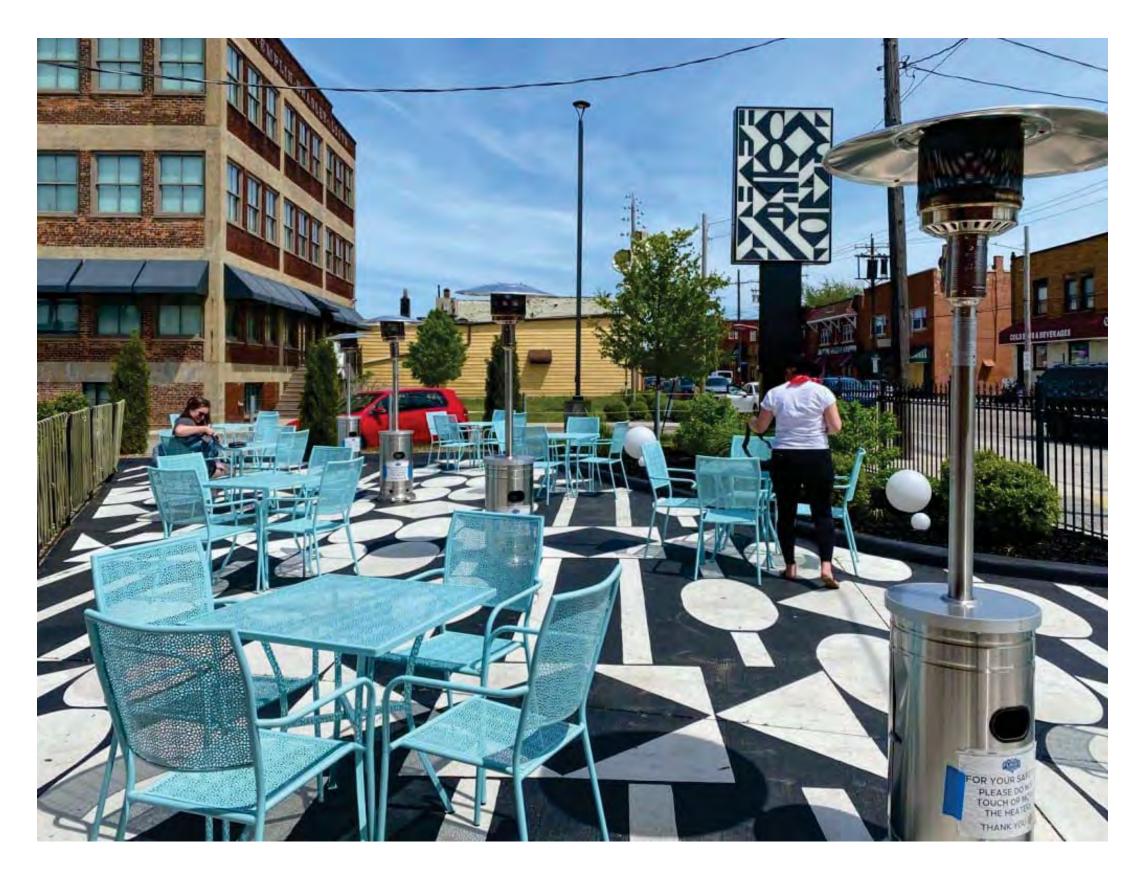


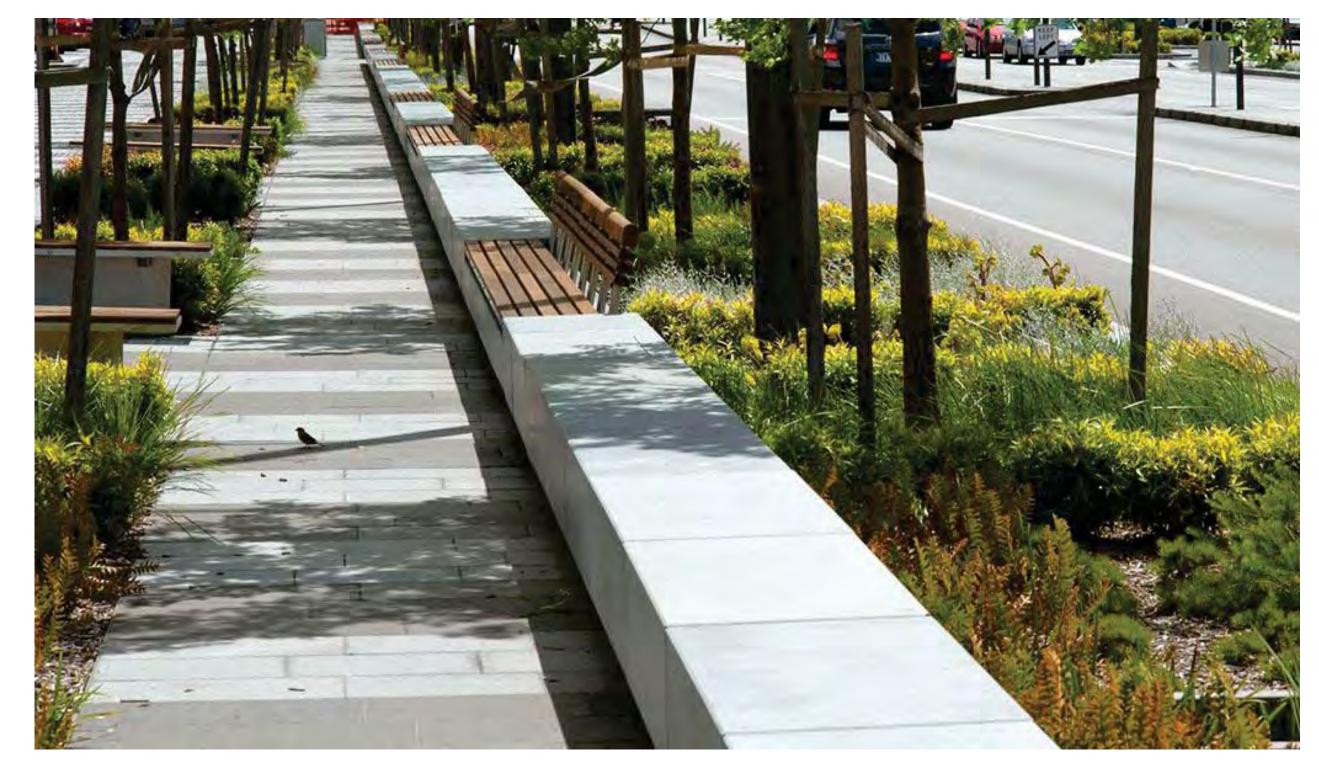






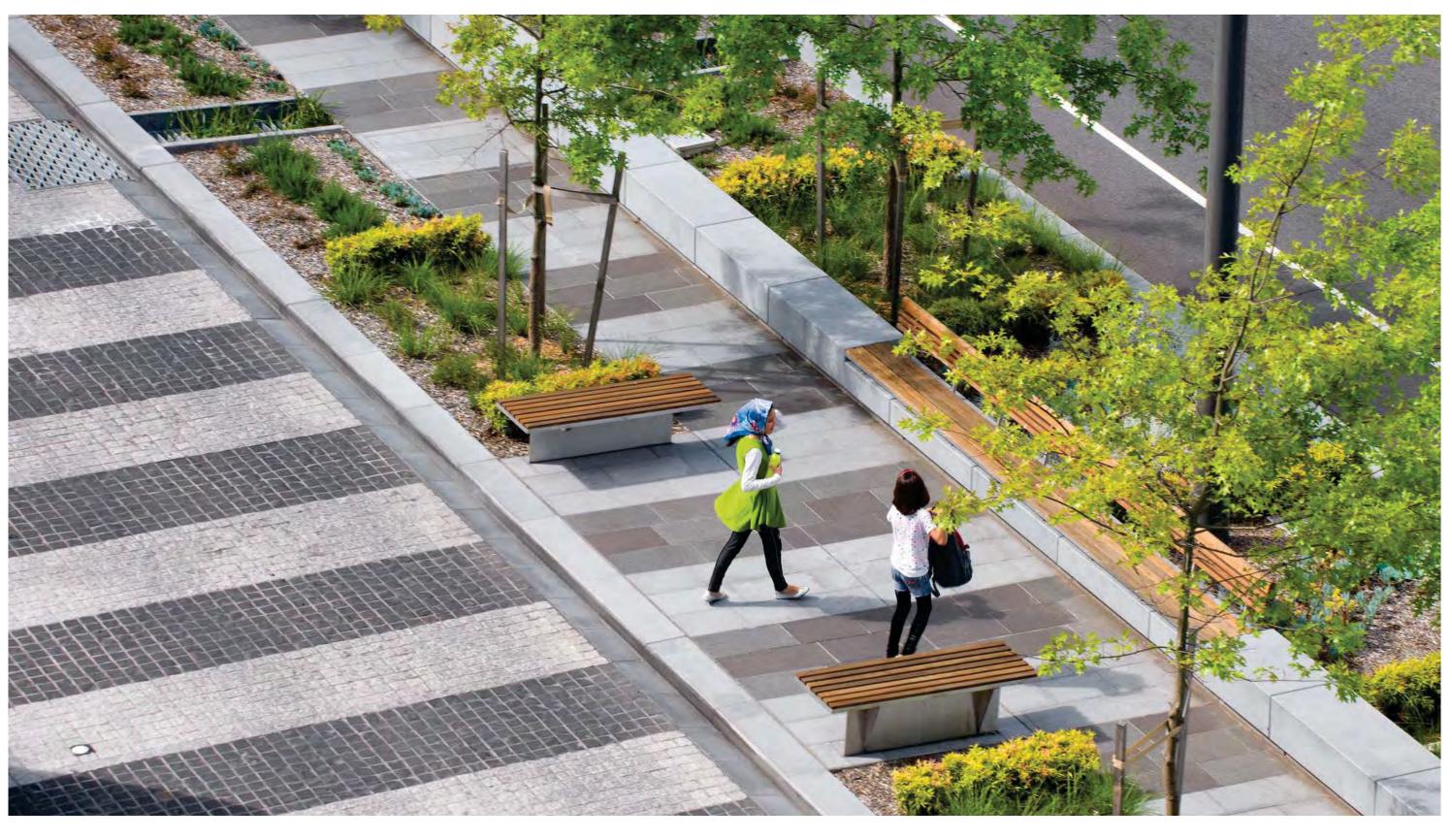
**Waverly & Oak** Gordon Square Neighborhood, Cleveland, Ohio

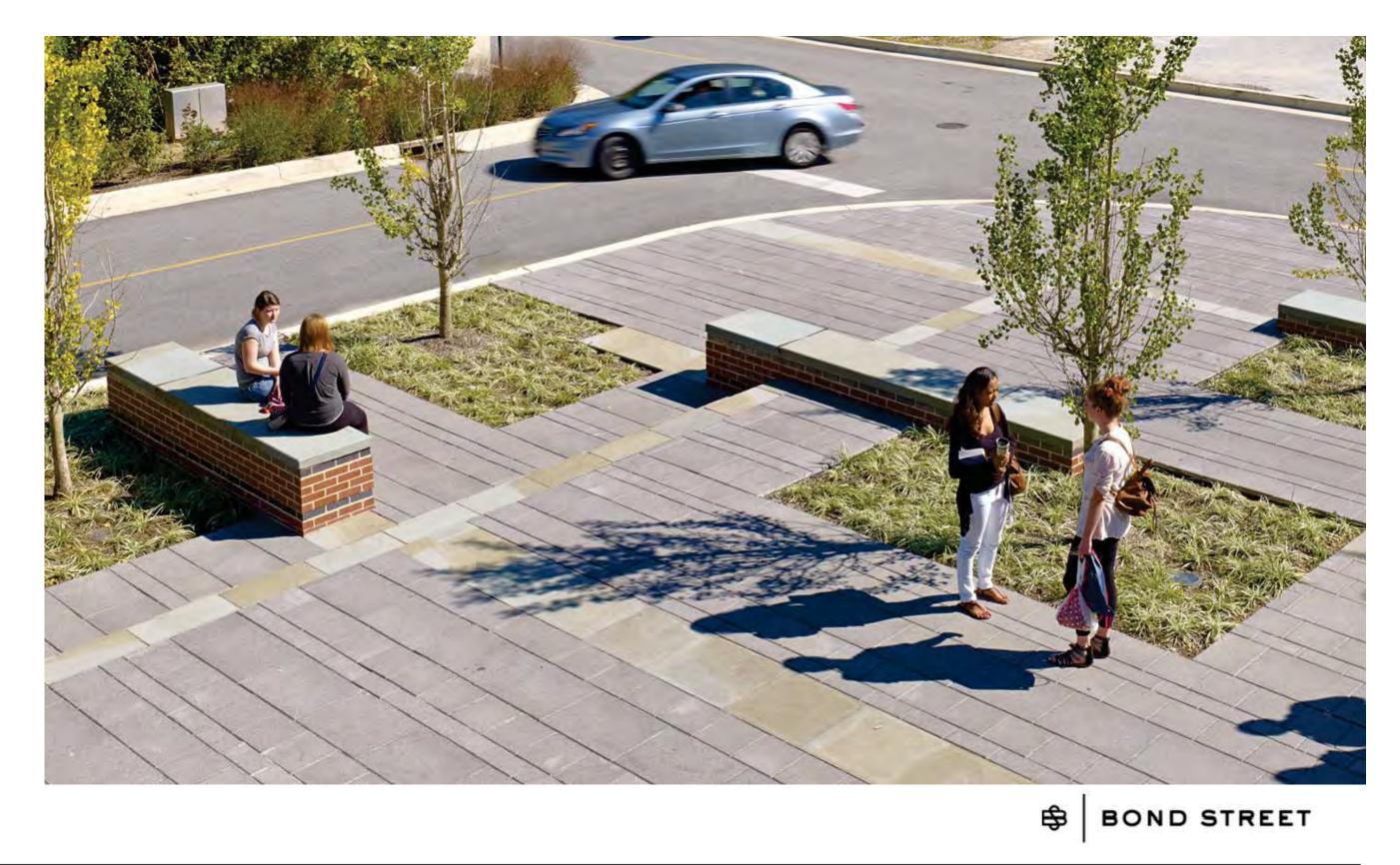




**POCKET PARK / PLAZA** 







**DIMIT**ARCHITECTS architecture + interiors + urban design December 2, 2021



Gordon Square Neighborhood, Cleveland, Ohio

DIMITARCHITECTS architecture + interiors + urban design March 17, 2022

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



Gordon Square Neighborhood, Cleveland, Ohio

WALL OR FENCE SCREENING

BOND STREET DIMITARCHITECTS

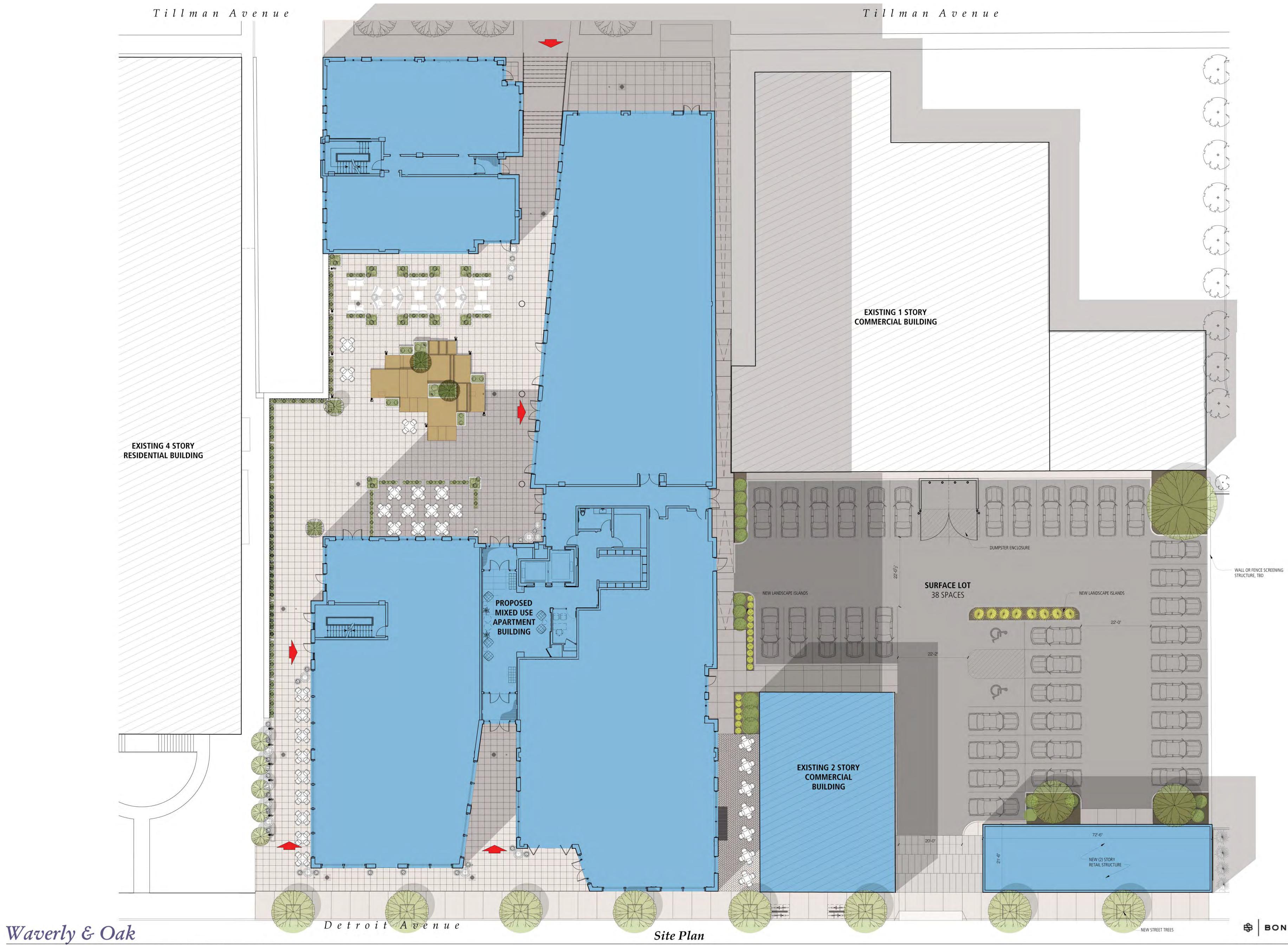
March 17, 2022

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



BOND STREET DIMITARCHITECTS architecture + interiors + urban design

December 2, 2021



Gordon Square Neighborhood, Cleveland, Ohio

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

DIMITARCHITECTS architecture + interiors + urban design

BOND STREET

December 2, 2021



Waverly & Oak Gordon Square Neighborhood, Cleveland, Ohio

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

WALL OR FENCE SCREENING











**Waverly & Oak** Gordon Square Neighborhood, Cleveland, Ohio





# **PETITE COMMERCIAL**







**DIMIT**ARCHITECTS architecture + interiors + urban design December 2, 2021

# **Cleveland Landmarks Commission**

# **Design Review**



March 24, 2022



# Gordon Square - Clifton West Design Review Committee Certificate of Appropriateness Review

 Date: 3/9/2022
 File Number:

 Building / Project Name: Waverly & Oak Phase 2
 Froperty Address: 5416 Detroit Avenue

 Property Owner: Bond Street
 Image: Comparison of the street

 Historic Designation:
 Image: National Register
 Image: Local Landmarks District

 Presenters: Justin Strizzi, Taylor Hawkins (Bond Street), Gary Ogrocki (Dimit Architecture)

**Specifications of work proposed:** Proposal to demolish existing non-contributing structure, add temporary park, discuss potential options for future development on site. Setback increased to about 37' to meet PRO requirements (still needs conditional use)

# **Recommendations of Design Review Committee:**

- 1) Recommend approval of the demolition of 5416 Detroit Avenue
- 2) Recommend approval of the site plan hardscape with the pocket park hardscape to be studied for more overall greenspace, more elements for site and seating with final landscape selections to return to the committee

# **Design Review Committee:**

Jeff Blazek	□ Not Present	🛛 In-Favor	$\Box$ Opposed	🗆 Table	$\Box$ Abstain
Brent Eysenbach	□ Not Present	⊠ In-Favor	□ Opposed	🗆 Table	🗆 Abstain
Eric Fabian	□ Not Present	🛛 In-Favor	□ Opposed	🗆 Table	🗆 Abstain
Timothy Karas	🛛 Not Present	□ In-Favor	□ Opposed	🗆 Table	🗆 Abstain
Krysta Pesarchick	🗆 Not Present	⊠ In-Favor	□ Opposed	🗆 Table	🗆 Abstain
	□ Not Present	□ In-Favor	□ Opposed	🗆 Table	🗆 Abstain

### **Non-Voting In Attendance**

Karl Brunjes (Administrator); Phil Kidd (Northwest Neighborhoods CDC)

Required to present at Cleveland Landmarks Commission? Xes Do Date: 3/24/2022



March 24, 2022

# Case 22-028: Ludlow Historic District Stewart Residence 13519 Corby Road

Solar Panel Installation Ward 4: Gray Project Representatives: Ace Thompson, Fluent Solar



February 8th 2022

Project Address: Project Name: 13519 Corby Road, Cleveland, Ohio 44120 Danielle Stewart

To Whom it may concern,

Plan check comments received – comments/corrections indicated below:

- 1. Written Project Summary Please see Sheet C-1 for the Scope Of Work located on the top left side of the sheet.
- 2. **Site Location Map** *Please See Sheet C-1 for the site location.*
- 3. Site Context Plan Please see Sheet PV-1 for the Site Plan Sheet.
- 4. Existing Conditions Plan Please see sheet PV-1 for all site context
- 5. **Site Plan** *Please see sheet PV-1. North arrow, scale, legend , and all applicable notes can be found here.*
- 6. Section/Elevation Drawings Please see Sheet PV-2 for all Roof Info and structural *info*.

Due to the Scope of work explained on Sheet C-1. The proposed project does not need access to any other requested information. Other information that is relevant such as Electrical Calculations and Structural Calculations can be found apart of the submitted Designs.

I hope that the required changes have been addressed to your satisfaction. 866.736.1253

Thanks,

Dawson Armstrong | CAD Designer

fluentsolar.com (

2578 W 600 N Suite 100 Lindon, UT 84043



January 15, 2022

Fluent Solar, LLC 2578 W 600 N Lindon, UT 84042

> Re: Engineering Services Stewart Residence 13519 Corby Road, Cleveland OH 5.110 kW System

To Whom It May Concern:

We have received information regarding solar panel installation on the roof of the above referenced structure. Our evaluation of the structure is to verify the existing capacity of the roof system and its ability to support the additional loads imposed by the proposed solar system.

### A. Site Assessment Information

- 1. Site visit documentation identifying attic information including size and spacing of framing for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information will be utilized for approval and construction of the proposed system.

### B. Description of Structure:

Roof Framing:2 x 6 dimensional lumber spaced at 24" on centerRoof Material:Composite Asphalt ShinglesRoof Slope:25 degreesAttic Access:AccessibleLumber type:Assumed Douglas FirFoundation:Permanent

### C. Loading Criteria Used

- Dead Load
  - Existing Roofing and framing = 7 psf
  - New Solar Panels and Racking = 3 psf
  - $\circ$  TOTAL = 10 PSF
- Live Load = 20 psf (reducible) 0 psf at locations of solar panels
- Ground Snow Load = 20 psf
- Wind Load based on ASCE 7-16
  - Ultimate Wind Speed = 115 mph (based on Risk Category II)
  - Exposure Category C

Analysis performed of the existing roof structure utilizing the above loading criteria is in accordance with the 2019 RCO, including provisions allowing existing structures to not require strengthening if the new loads do not exceed existing design loads by 105% for gravity elements and 110% for seismic elements. This analysis indicates that the existing framing will support the additional panel loading without damage, if installed correctly.

### D. Solar Panel Anchorage

- 1. The solar panels shall be mounted in accordance with the most recent Unirac installation manual. If during solar panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.
- 2. The maximum allowable withdrawal force for a <sup>5</sup>/<sub>16</sub>" lag screw is 235 lbs per inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications. Based on a minimum penetration depth of 2½", the allowable capacity per connection is greater than the design withdrawal force (demand). Considering the variable factors for the existing roof framing and installation tolerances, the connection using one <sup>5</sup>/<sub>16</sub>" diameter lag screw with a minimum of 2½" embedment will be adequate and will include a sufficient factor of safety.
- 3. Considering the wind speed, roof slopes, size and spacing of framing members, and condition of the roof, the panel supports shall be placed no greater than 48" on centers.
- 4. Panel supports connections shall be staggered to distribute load to adjacent framing members.

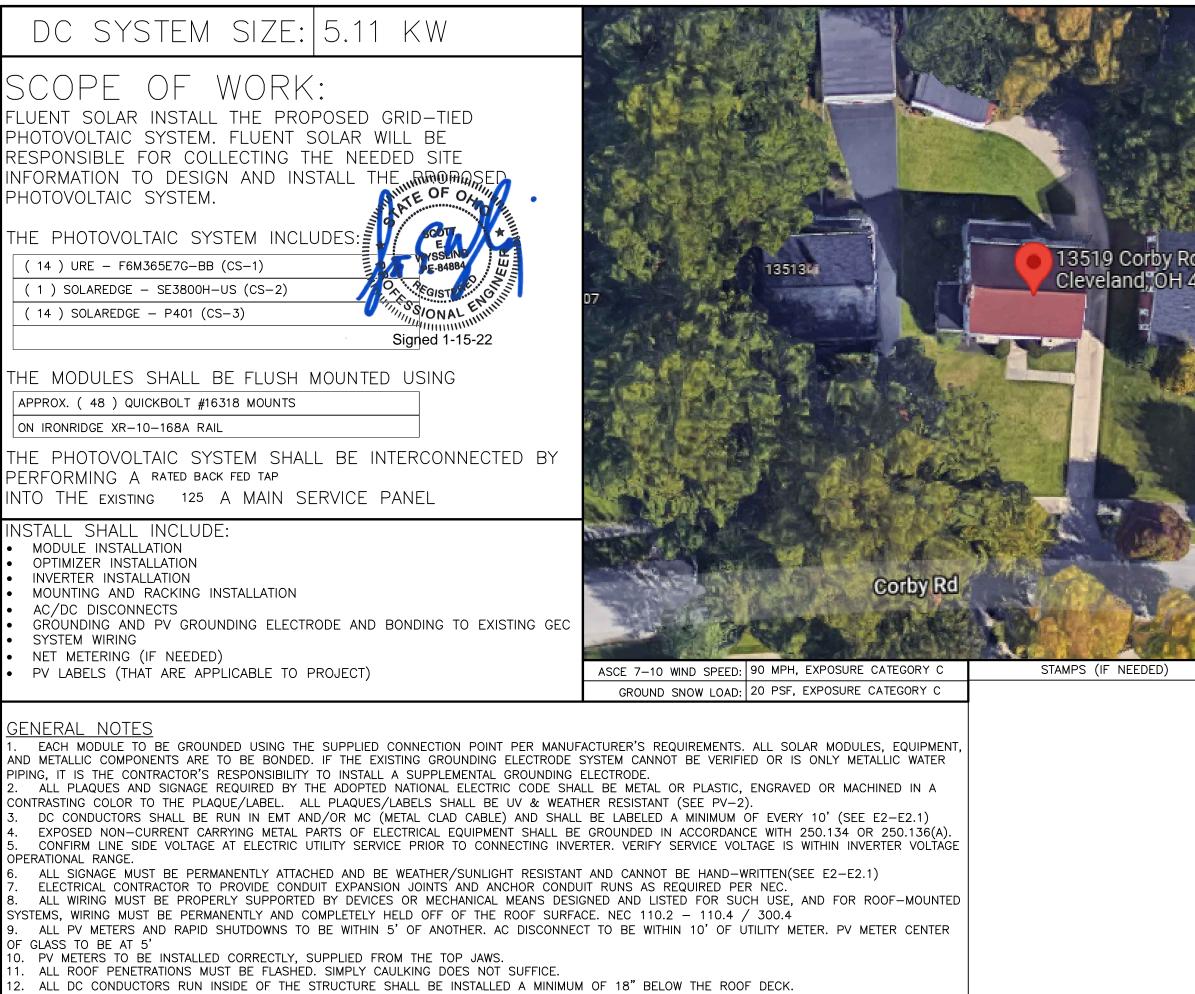
Based on the above evaluation, this office certifies that with the racking and mounting specified, the existing roof system will adequately support the additional loading imposed by the solar system. This evaluation is in conformance with the 2019 RCO, current industry standards, and is based on information supplied to us at the time of this report.

Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

y truly yours, Scott E. Wyssli Ohio License No. 848







- ALL WORK SHALL COMPLY WITH THE 2017 OBC AND 2019 RCO.
   ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE.
- 15. EQUIPMENT MAY BE SUBSTITUTED FOR SIMILAR EQUIPMENT BASED ON AVAILABILITY. SUBSTITUTED EQUIPMENT SHALL COMPLY WITH DESIGN CRITERIA

59	ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253						
d, 14120	SYSTEM SIZE: 5.11 KW (E-1)	(14) URE - F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP
CONTENTS:	STEWART	13519 CORBY RD	CITY: CLEVELAND	ЮН	44120	Cleveland	FIRST ENERGY
C-1 COVER PAGE PV-1 SITE PLAN PV-2 ROOF INFO PV-3 SITE PHOTOS PV-4 STREET VIEW E-1 3-LINE DIAGRAM E-2 LABELS E-2.1 LABELS LOCATION E-3 ELEC CALCS AND EQUIPMENT INFO M-1 MOUNT M-2 MOUNT CONT.	CUSTOMER LAST NAME: STEWART	ADDRESS:		STATE:	:AIZ	JURISDICTION: C	UTILITY COMPANY: FIRST
EQ-1 EQUIPMENT EQ-2 EQUIP. CONT. EQ-3 EQUIP. CONT.	) D	ESIGN DES				DA	
EQ-4 EQUIP. CONT. EQ-5 EQUIP. CONT. CS-1 MODULE	)	1/	14/	′20	22		
CS-2 OPTIMIZER CS-3 INVERTER PL-1 PLACARD	)	COV	ER	Ρ	AG	Ε	
h	)	(	) -		1		

LEGEND:

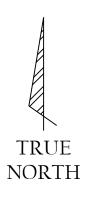
■ UTILITY METER

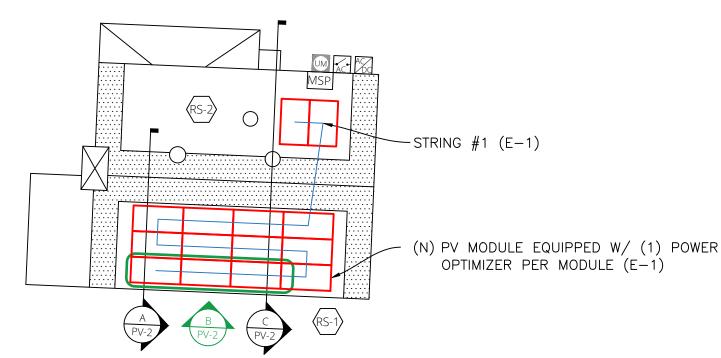
MSP =MAIN SERVICE PANEL

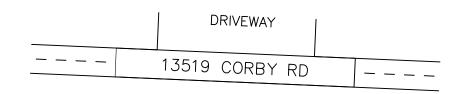
AC DISCONNECT

ACT = INVERTER

INVERTER POWER RATING: 3.80 kW PANEL POWER RATING: 365 W





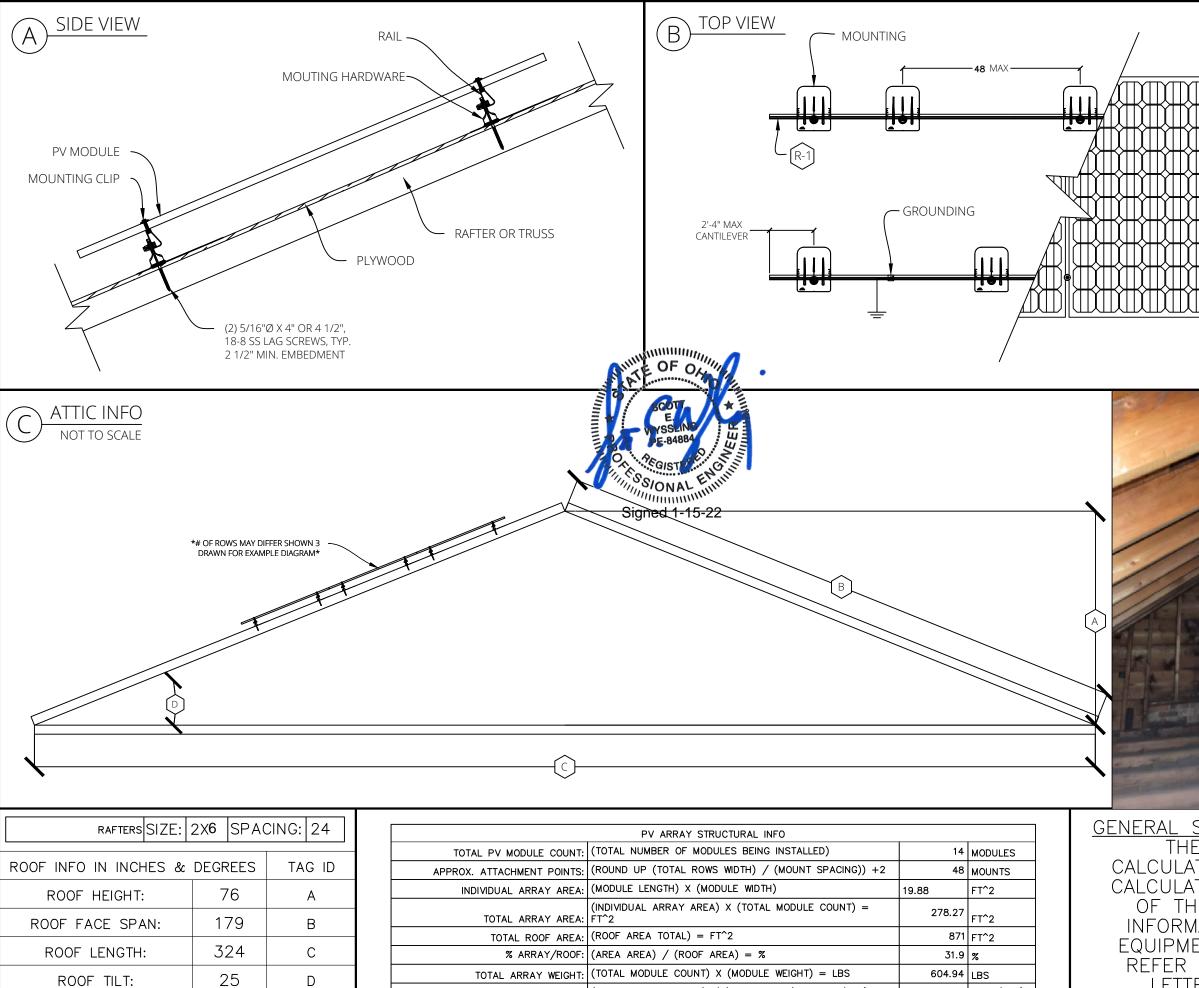


### PLAN NOTES: SITE

- VERIFY ALL OBSTRUCTIONS IN THE FIELD. .
- VERIFY ALL DIMENSIONS IN THE FIELD. ٠
- PROVIDE RAIL SPLICES AS REQUIRED BY MANUFACTURER'S GUIDELINES. ٠
- NO SIGNIFICANT SHADING WILL RESULT FROM EXISTING ROOF OBSTRUCTIONS. ٠
- PV MODULES CANNOT BE INSTALLED OVER OR BLOCK ATTIC VENTS, PLUMBING VENTS, FURNACE OR WATER HEATER VENTS ETC. ٠
- WHERE INDICATED ON PLAN, MIN. DIMENSIONS ARE REQUIRED PER THE "SOLAR PV INSTALLATION GUIDELINE" PUBLISHED BY THE OFFICE OF THE STATE FIRE MARSHAL ٠ SCALE 3/32"=1' ٠
- ALL PV METERS AND RAPID SHUTDOWNS TO BE WITHIN 5' OF ANOTHER. AC DISCONNECT TO BE WITHIN 10' OF UTILITY METER. PV METER CENTER OF GLASS TO BE AT 5' ٠



	TILT	AZIMUTH						_	
ROOF SECTION 1	25	182	F	71	10	2	n	ł	
ROOF SECTION 2	25	2			4	2		L	
ROOF SECTION 3	N/A	N/A		S O	L	A	R		
ROOF SECTION 4	N/A	N/A	ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253				2		
ROOF SECTION 5	N/A	N/A		PHONE	: 866	6-736	5-12	53	
ROOF SECTION 6	N/A	N/A							
DESIGN ADDENDUMS TO BASED ON CITY, STATE, UT PLAN REVIEWER COM CONFLICTING NOTES, PRECEDENCE OVER STAN ADDENDUM #32 - 1: CALCULATION INVERTER @125%: 16A(INVERTER M 1.25 = 20A ADDENDUM #32 - 2: CALCULATIONS OCPD AND THE INVERTER @120%: ADDENDUM #32 - 3: CALCULATIONS CONDUCTORS IN RACEWAY FOR RO PAGE	TILITY, AHJ, O MENTS IF TH , ADDENDUM DARD TEMPL FOR OCPD TO TH IAXIMUM OUTPU S FOR THE SUM O S FOR THE DERATI OFTOP PV SYSTEM	R PREVIOUS ERE ARE IS TAKE ATE NOTES E AC OUTPUT IT CURRENT) X IF THE MAIN ING OF	SYSTEM SIZE: 5.11 KW (E-1)	3Y RD ( 14 ) URE – F6M365E7G-BB (CS-1)	( 1 ) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	RGY INTERCONNECTION METHOD: RATED BACK FED TAP
COT E-84884	*		STEWART	13519 CORBY	CLEVELAND	НО	44120	Cleveland	FIRST ENE
Signed 1-15-2		CUSTOMER LAST NAME:	ADDRESS:	CITY:	STATE:	:dIZ	JURISDICTION: Cleveland	UTILITY COMPANY: FIRST ENER	
			D	ESIGN	IED	ΒY	:	DA	
				DES					
HATCHED AREA WILL PROVIDE A 3' FIRECODE PATHWAY TO COMPLY WITH IFC 605.11.3.2.1				1/	14/	20	22		
				SITE PLAN					
т 5'				Ρ	$\bigvee$		1		



I FT
CALCUL

2.17 LBS / FT^2

12.60 LBS / ATTACH.

	TOTAL ARRAY WEIGHT:	(TOTAL MODULE COUNT) X (MODULE WEIGHT) = LBS
_	TOTAL DISTRIBUTED LOAD ON ROOF:	(TOTAL ARRAY WEIGHT) / (ARRAY AREA) = LBS / FT <sup>2</sup>
		(TOTAL ARRAY WEIGHT) / (TOTAL NUMBER OF
	LOAD ON EACH MOUNT	ATTACHMENTS)

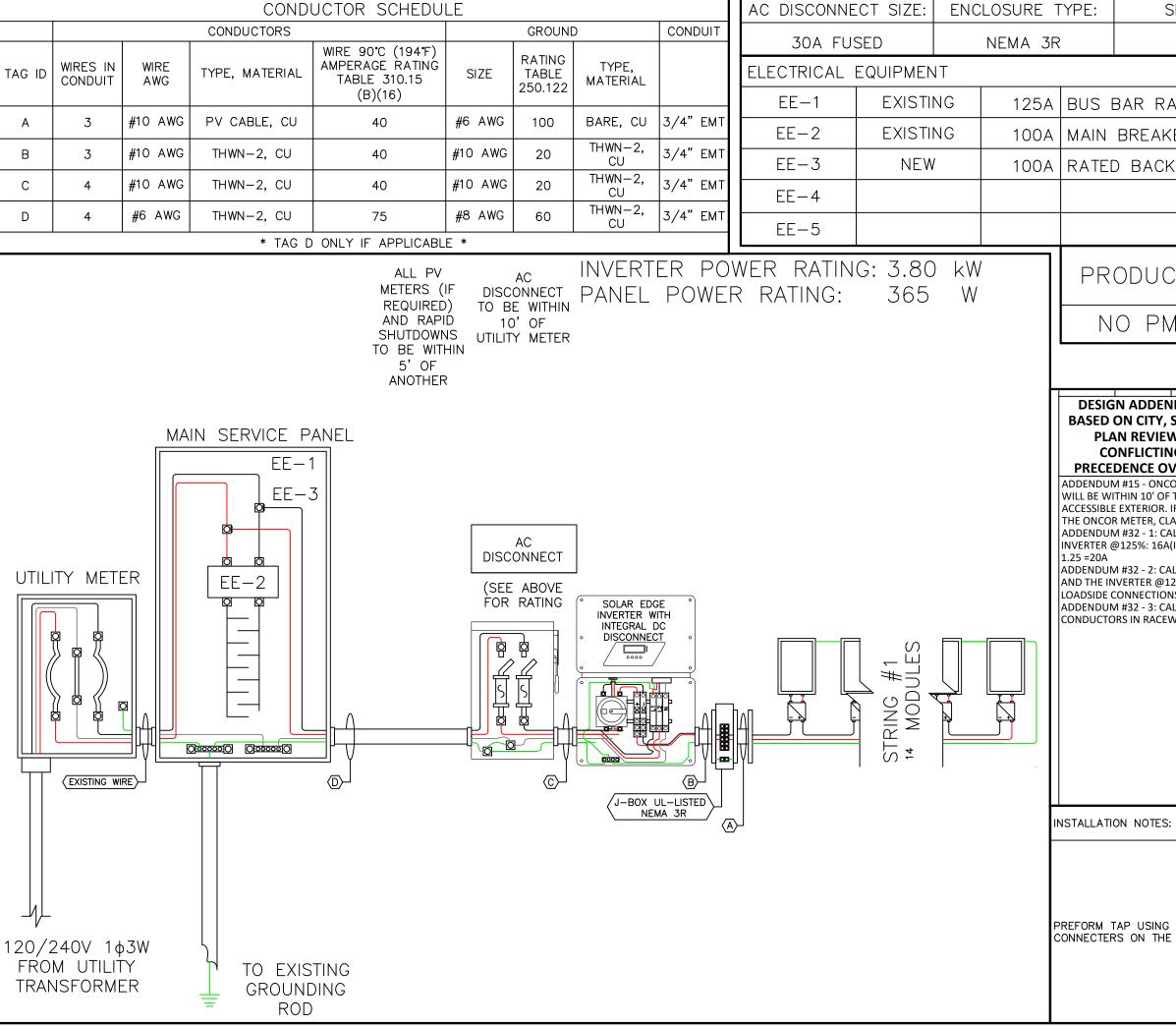
						_		
MID-CLAMPS	ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253							
	SYSTEM SIZE: 5.11 KW (E-1)	( 14 ) URE – F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP	
L STRUCTURAL NOTES: THE FOLLOWING	CUSTOMER LAST NAME: STEWART	ADDRESS: 13519 CORBY RD	CITY: CLEVELAND	STATE: OH	ZIP: 44120	JURISDICTION: Cleveland	UTILITY COMPANY: FIRST ENERGY	
ILATIONS ARE INITIAL ILATIONS BASED OFF		ESIGN DES				DA		
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PMENT CUT SHEETS. ER TO STRUCTURAL		RO	ЭF	IN	IFC	)		
TTER FOR FINAL ILATIONS, SNOW AND WIND SPEEDS		P	V ·		2			



	ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253						2
	SYSTEM SIZE: 5.11 KW (E-1)	(14) URE - F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP
	STEWART	ADDRESS: 13519 CORBY RD	CITY: CLEVELAND	HO	ZIP: 44120	Cleveland	FIRST ENERGY
	CUSTOMER LAST NAME: STEWART	ADDRESS:	CITY:	STATE: OH	ZIP:	JURISDICTION: Cleveland	UTILITY COMPANY: FIRST ENERGY
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ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866–736–1253											
SYSTEM SIZE: 5.11 KW (E-1)	(14) URE - F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP					
STEWART	13519 CORBY RD	CITY: CLEVELAND	HO	ZIP: 44120	Cleveland	FIRST ENERGY					
CUSTOMER LAST NAME: STEWART	ADDRESS: 13519 CO	CITY:	STATE: OH	ZIP:	JURISDICTION: Cleveland	UTILITY COMPANY: FIRST EN					
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STREET VIEW											
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SPECIAL NOTES:			۰۹.,	_			L	
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ATING			ADDRES JITE 100 PHONE	LIN	DON,	UT 8	4042	2
ER RATING								
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			-1)	(CS-2)				BACK
CTION METER:		-1)	3-ВВ (CS-1)	SE3800H-US (	P401 (CS-3)	SHINGLE (PV-2)	-2)	RATED
/ REQUIRED		5.11 KW (E-1)	F6M365E7G-BB	Т	I		24" (PV-2)	INTERCONNECTION METHOD:
			I	SOLAREDGE	SOLAREDGE	: COMP	2X4 @	CTION
IDUMS TO STANDARD TEMP		IM SIZE:	(14) URE	SOLA	) sol	TYPE:		ONNE
STATE, UTILITY, AHJ, OR PRE WER COMMENTS IF THERE A	RE 🛛	SYSTEM	(14	(1)	(14)	ROOF	RAFTERS,	ITERC
IG NOTES, ADDENDUMS TAK VER STANDARD TEMPLATE N	IOTES						R	∠
OR: DISTANCE BETWEEN VLLD/AC DIS THE ONCOR METER AND BE ON AN IF THE VLLD IS NOT LOCATED WITHIN ASS 2 OR 3 PLACARDS ARE TO BE USE ILCULATION FOR OCPD TO THE AC OU (INVERTER MAXIMUM OUTPUT CURR	10' OF D		RD					
LCULATIONS FO RTHE SUM OF THE M 20%: 50A OF ALLOWABLE BACKFEED			З					ERGY
NS ACULATIONS FOR THE DERATING OF WAY FOR ROOFTOP PV SYSTEMS: SEE	FF-3 PAGE	ART	CORI	CLEVELAN		0	and	ENEF
		STEWART	13519	LEVE	НО	44120	Cleveland	JTILITY COMPANY: FIRST
	H			CITY: C		ZIP: 4		Y: F
	F	CUSTOMER LAST NAME:	ADDRESS:	CIT	STATE:	ZI	JURISDICTION:	1P AN
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# ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

**∧WARNING** 

# ELECTRIC SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED ..... IN THE OPEN POSITION

PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OUTPUT CURRENT A NOMINAL OPERATING AC VOLTAGE



SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

# WARNING: PHOTOVOLTAIC POWER SOURCE



# LABEL 1

AT EACH JUNCTION BOX, COMBINER BOX, DISCONNECT, AND DEVICE WHERE ENERGIZED UNGROUNDED CONDUCTORS MAY BE EXPOSED DURING SERVICE. NEC. 690.35(F)

LABEL 2 FOR PV DISCONNECTING MEANS WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION. NEC 690.17(E), NEC 705.22

LABEL 3 AT POINT OF INTERCONNECTION, MARKED AT AC DISCONNECTING MEANS. NEC 690.54, NEC 690.13 (B)

\*FOR VALUES SEE ELECTRICAL CALCS PAGE, VALUES TO BE PRINTED AND NOT HAND WRITTEN\*

# LABEL 4

AT POINT OF INTERCONNECTION FOR EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUTS SUPPLYING POWER TO A BUSBAR OR CONDUCTOR SUPPLIED FORM MULTIPLE SOURCES, EACH SERVICE EQUIPMENT AND ALL ELECTRIC POWER PRODUCTION SOURCE LOCATIONS. NEC 705.12(D)(3)

# LABEL 5

NEC 705.12(D)(2)(3)(B)

AT DIRECT-CURRENT EXPOSED RACEWAYS, CABLE TRAYS, COVERS AND ENCLOSURES OF JUNCTION BOXES, AND OTHER WIRING METHODS: SPACED AT MAXIMUM 10FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS. NEC 690.31(G)(3&4) LABEL 6 PLACED ADJACENT TO THE BACK-FED BREAKER FROM THE INVERTER IF TIE IN CONSISTS OF LOAD SIDE CONNECTION TO BUSBAR.

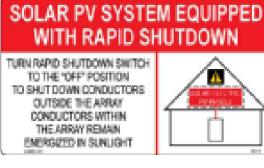
# PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

# 🛆 WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES, TOTAL RATING OF ALL OVERCURRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR.

# SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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



# #05-208 - 2017 NEC 690.53 DIRECT CURRENT PHOTOVOLTAIC

VDC

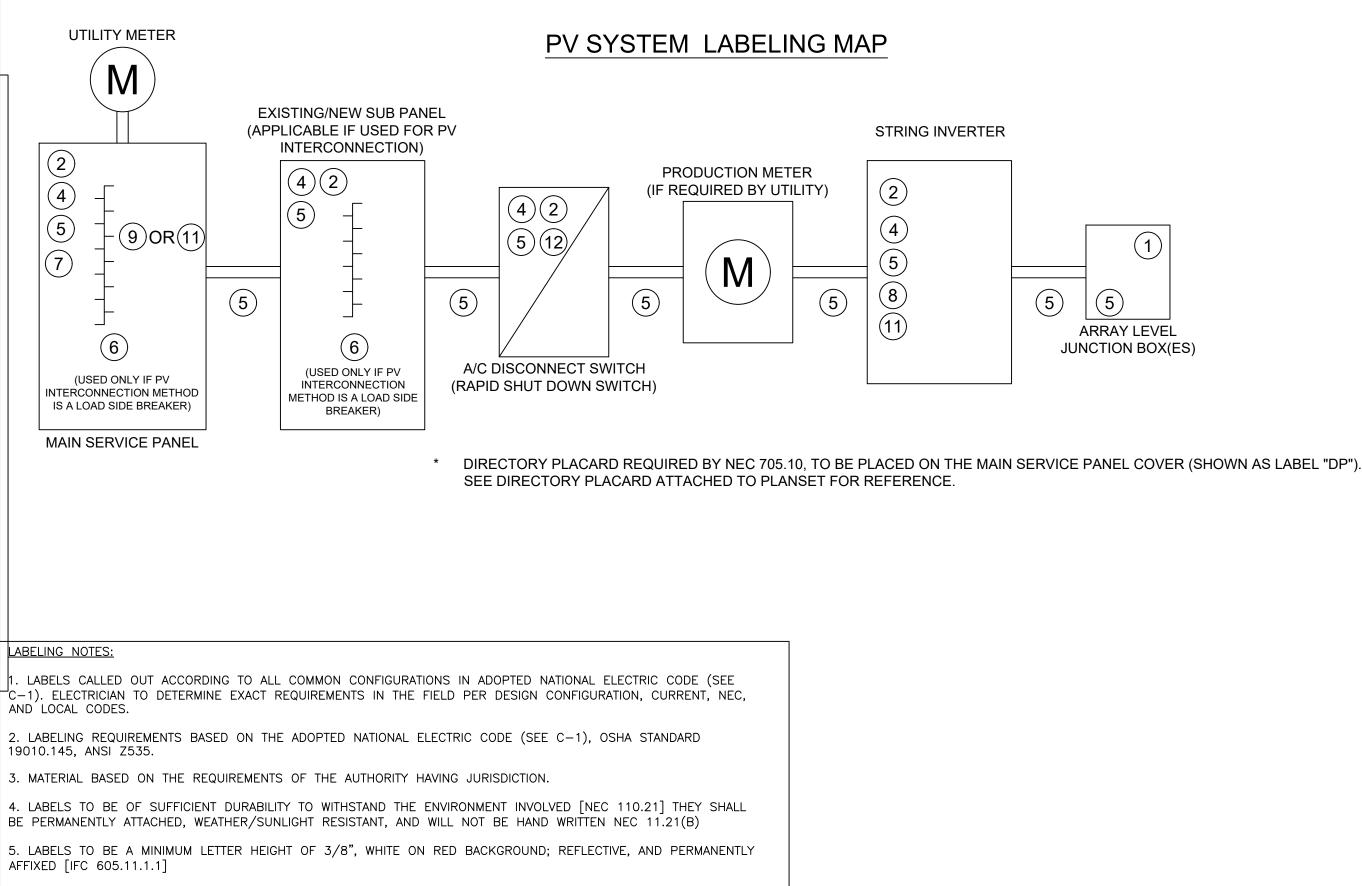
AMPS

MAXIMUM VOLTAGE MAX CIRCUIT CURRENT

POWER SOURCE

# **RAPID SHUTDOWN SWITCH** FOR SOLAR PV SYSTEM

LABEL 7 SIGN LOCATED AT UTILITY SERVICE EQUIPMENT. NEC 690.56(C)		ADDRES	) LIN	A 578 W DON,	R 600 UT 8	) N 84042	2
LABEL 8 (ONLY IF 3 OR MORE SUPPLY SOURCES TO A BUSBAR) SIGN LOCATED AT LOAD CENTER IF CONTAINS 3 OR MORE POWER SOURCES. NEC 705.12(D)(2)(3)(C)		(CS-1)	S (CS-2)	-3)	-2)		ED BACK FED TAP
LABEL 9 FOR PV SYSTEMS THAT SHUT DOWN THE ARRAY AND CONDUCTORS LEAVING THE ARRAY: SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT AWAY FROM SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATION OF ALL IDENTIFIED RAPID SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION. [NEC 690.56(C)(1)(A)]	SYSTEM SIZE: 5.11 KW (E-1)	(14) URE - F6M365E7G-BB (	(1) SOLAREDGE - SE3800H-US	( 14 ) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED
LABEL 10 FOR PV SYSTEMS THAT ONLY SHUT DOWN CONDUCTORS LEAVING THE ARRAY: SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT AWAY FROM SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATION OF ALL IDENTIFIED RAPID SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION. [NEC 690.56(C)(1)(B)]	STEWART	13519 CORBY RD	CLEVELAND	ОН	44120	Cleveland	FIRST ENERGY
LABEL 11 A PERMANENT LABEL FOR THE DC PV POWER SOURCE INDICATING THE INFORMATION SPECIFIED IN (1) THROUGH (3) SHALL BE PROVIDED BY INSTALLER AT DC PV SYSTEM DISCONNECTING MEANS AND AT EACH DC EQUIPMENT DISCONNECTING MEANS REQUIRED BY 690.15. WHERE A DISCONNECTING MEANS HAS MORE THAN ONE DC PV POWER SOURCE, THE VALUES IN 690.53(1) THROUGH (3) SHALL BE SPECIFIED FOR EACH SOURCE.	CUSTOMER LAST NAME:	ADDRESS:	CITY:	STATE:	ZIP:	JURISDICTION:	UTILITY COMPANY:
*FOR VALUES SEE ELECTRICAL CALCS PAGE, VALUES TO BE PRINTED AND NOT HAND WRITTEN*			NED SIGN			DA	
LABEL 12			14/				
A RAPID SHUTDOWN SWITCH SHALL HAVE A LABEL LOCATED ON OR NO MORE THAN 1M (3FT) FROM THE SWITCH THAT INCLUDES THE FOLLOWING WORDING "RAPID SHUTDOWN SWITCH		L	AB	ELS	5		
FOR SOLAR PV SYSTEM" THE LABEL SHALL BE REFLECTIVE WITH ALL LETTERS CAPITALIZED AND HAVING A MINIMUM HEIGHT OF 9.5MM (3) IN.). IN WHITE ON RED BACKGROUND)		E			2		



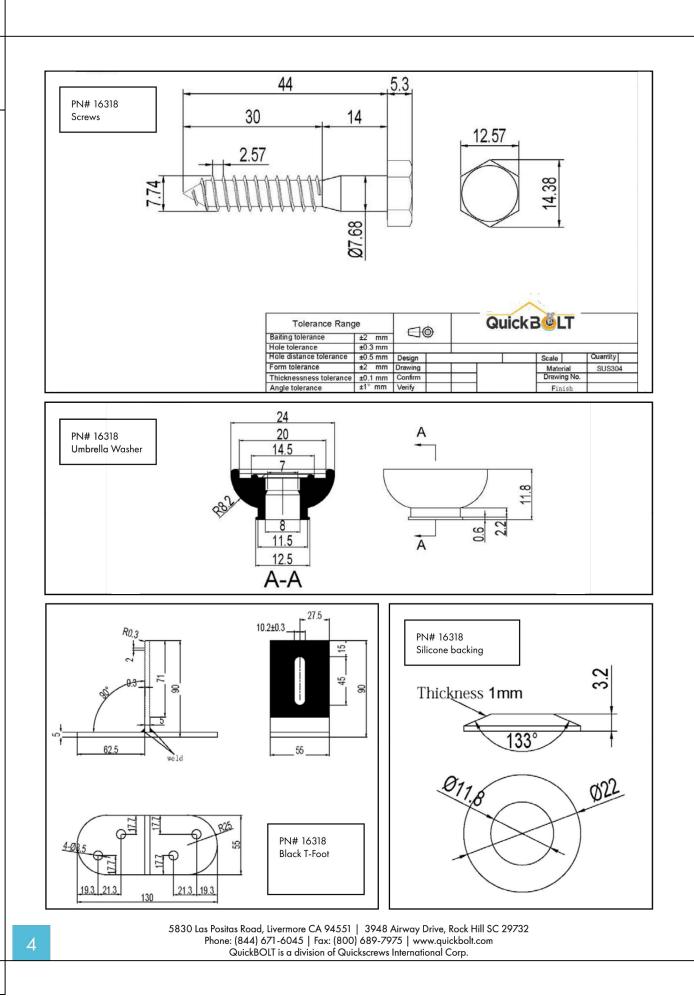
6. FOR LOCATION OF LABEL SEE CODE REFERENCED NEXT TO LABEL FOR.

ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253										
SYSTEM SIZE: 5.11 KW (E-1)	( 14 ) URE – F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP				
CUSTOMER LAST NAME: STEWART	ADDRESS: 13519 CORBY RD	CITY: CLEVELAND	STATE: OH	ZIP: 44120	JURISDICTION: Cleveland	JTILITY COMPANY: FIRST ENERGY				
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D			BY FD		DA					
DESIGNED ON 1/14/2022										
LABELS										
	Ε-		2	•						

SYSTEM SIZE AC SYSTEM SIZE: 3.8 KW DC SYSTEM SIZE: 5.11 KW	AC MAX CI	CURRENT = VOLTAGE = ENT AMPS = VOLTAGE =	INTERCONNECTION CAL ITEM BUS RATING MAIN OCPD ALLOWED PV PER NEC					
TAG A ELECTRICAL CALCS (SEE E-1) UNDER MODULES, NOT IN CONDUIT #10 AWG MAX CURRENT= 40A 40A * .96= 38.4A SOLAREDGE SE3800H-US MAX CIRCUIT CURRENT 21.29A FOR STRING 1 TAG D (IF APPLICABLE) ELECTRICAL CALCS (SEE #6 AWG MAX CURRENT = 75A 75A * .96 = 72A (ASHRAE 2% AVERAGE HIGH =3 72A PER CONDUCTOR SOLAREDGE SE3800H-US MAX OUTPUT =16A 16A * 1.25 (SAFETY FACTOR) = 20A SOLAREDGE RECCOMENDED OCPD= 20A	E-1) DESIC NEC ASHR	CONDUCTOR TAG B ELECTRICAL 10 AWG MAX CURRENT = 4 0A * .96 = 38.4A (ASHRA 8.4A PER CONDUCTOR 0LAREDGE SE3800H-US M/ 1.29A FOR STRING 1 	L CALCS (SEE E- 40A E 2% AVERAGE H AX CIRCUIT CURR ND CALCUI C 310.15( DE HIGH =	-1) HIGH =32°C) ENT ENT _ATIONS B B)(16) 90°	40A * .9 38.4A PE SOLAREDO 21.29A FO 21.29A FO BASED UPON ° C (194° F	R CONDUCTOR GE SE3800H-US OR STRING 1	= 40A IRAE 2% AVE	ERAGE HIGH =32°C)
MANUFACTURER       URE         MODEL       F6M365E7G-BB         PMAX       365       W         VOC       40.7       V         VMP       39.5       V         IMP       9.13       A         ISC       11.43       A         TEMPERATURE       COEFFICENT       OF         PMAX       -0.35       %/°C	AC C MAX DC NOMINAL DC MAX MAX O WEIGHTED MIN AC C	1MANUFACTURERSOLAREDGEMODELSE3800H-USMAX AC OUTPUT16ADUTPUT VOLTAGE240VINPUT VOLTAGE380VINPUT CURRENT10.5ADUTPUT CURRENT16ACEC EFFICIENCY99%CONDUCTOR SIZE#10 AWGAC GROUND SIZE#10 AWGPV BREAKER20A	INVERTER / MICRO-INVERTER		MANUFACTURER SO MODEL P4 MAX. INPUT POWER 40 MAX. VOC 60 OUTPUT CURRENT 15 OUTPUT VOLTAGE 60 IN. STRING LENGTH AX. STRING LENGTH ING POWER	01 0 W V A	OPTIMIZER / COMBINER PANEL	BATTERY INF MANUFACTURER PART NUMBER TOTAL ENERGY (kWh) USABLE ENERGY (kWh) CAPACITY (Ah) NOMINAL VOLTAGE (V) VOLTAGE RANGE (V) MAX POWER (kW) WEIGHT

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					SYSTEM SIZE: 5.11 KW (E-1)
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F	ADDRESS JITE 100 PHONE:	LIN	A 78 W 500N, 5-736		) N 84042	2
SYSTEM SIZE: 5.11 KW (E-1)	(14) URE - F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP
STEWART	ADDRESS: 13519 CORBY RD	CITY: CLEVELAND	ЮН	ZIP: 44120	Cleveland	FIRST ENERGY
CUSTOMER LAST NAME: STEWART	ADDRESS:	CITY:	STATE: OH	ZIP:	JURISDICTION: Cleveland	UTILITY COMPANY: FIRST ENERGY
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# **INSTALL INSTRUCTIONS**













# **BLACK DECK MOUNT (16318)**

# **RECOMMENDED MATERIALS**

- MFG approved sealant
- 1/2" Nut Setter

# **INSTALLATION INSTRUCTIONS**

- 1. Install anywhere on roof. No need to locate rafters
- 2. Place sealant around the bottom of the T-Foot
- 3. Place the T-Foot onto the roof
- 4. Insert first 5/16" x 1-3/4" Hex Lags into T-Foot
- 5. Drive the screw until the Umbrella Washer is compressed
- 6. Repeat with remaining screws
- \* Do not predrill
- \* To Drive Screws and Set Umbrella Washers Properly Torque PSI should not Exceed 57 Lbs/Inch



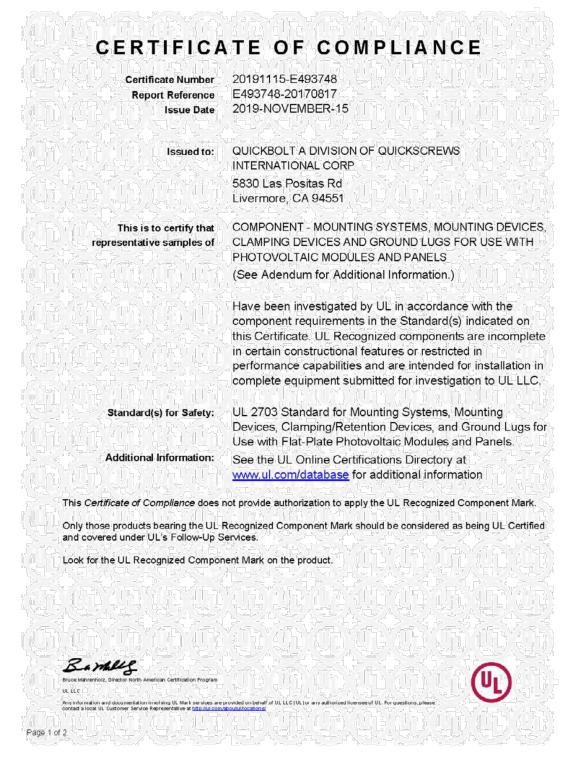
5830 Las Positas Road, Livermore CA 94551 | 3948 Airway Drive, Rock Hill SC 29732 Phone: (844) 671-6045 | Fax: (800) 689-7975 | www.guickbolt.com QuickBOLT is a division of Quickscrews International Corp.

ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253

SOL

SYSTEM SIZE: 5.11 KW (E–1)	(14) URE – F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	( 14 ) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	NTERCONNECTION METHOD: RATED BACK FED TAP
SYSTEN	(14)	(1)	(14)	ROOF .	<b>RAFTER</b>	INTERCC
NAME: STEWART	DRESS: 13519 CORBY RD	CITY: CLEVELAND	НО	ZIP: 44120	Cleveland	MPANY: FIRST ENERGY
CUSTOMER LAST NAME:	ADDRESS:	CITY:	STATE: OH	ZIP:	JURISDICTION:	UTILITY COMPANY: FIRST ENE
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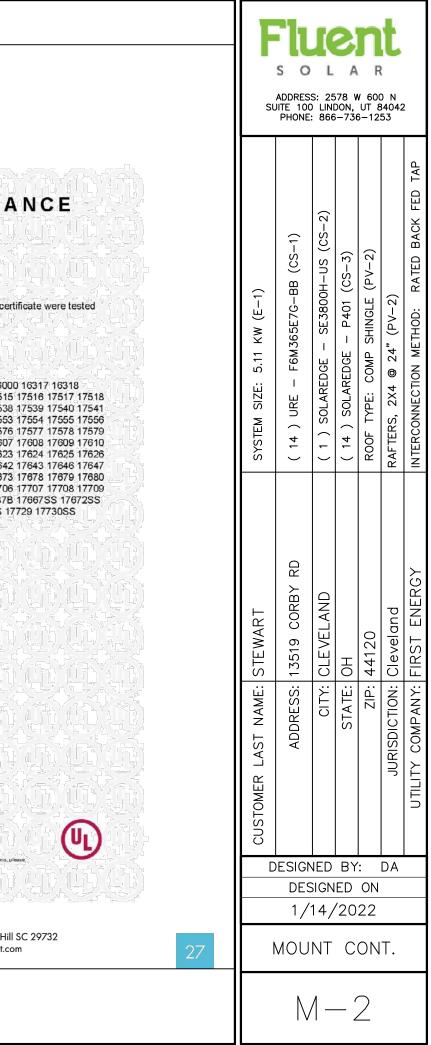
# **UL CERTIFICATION**

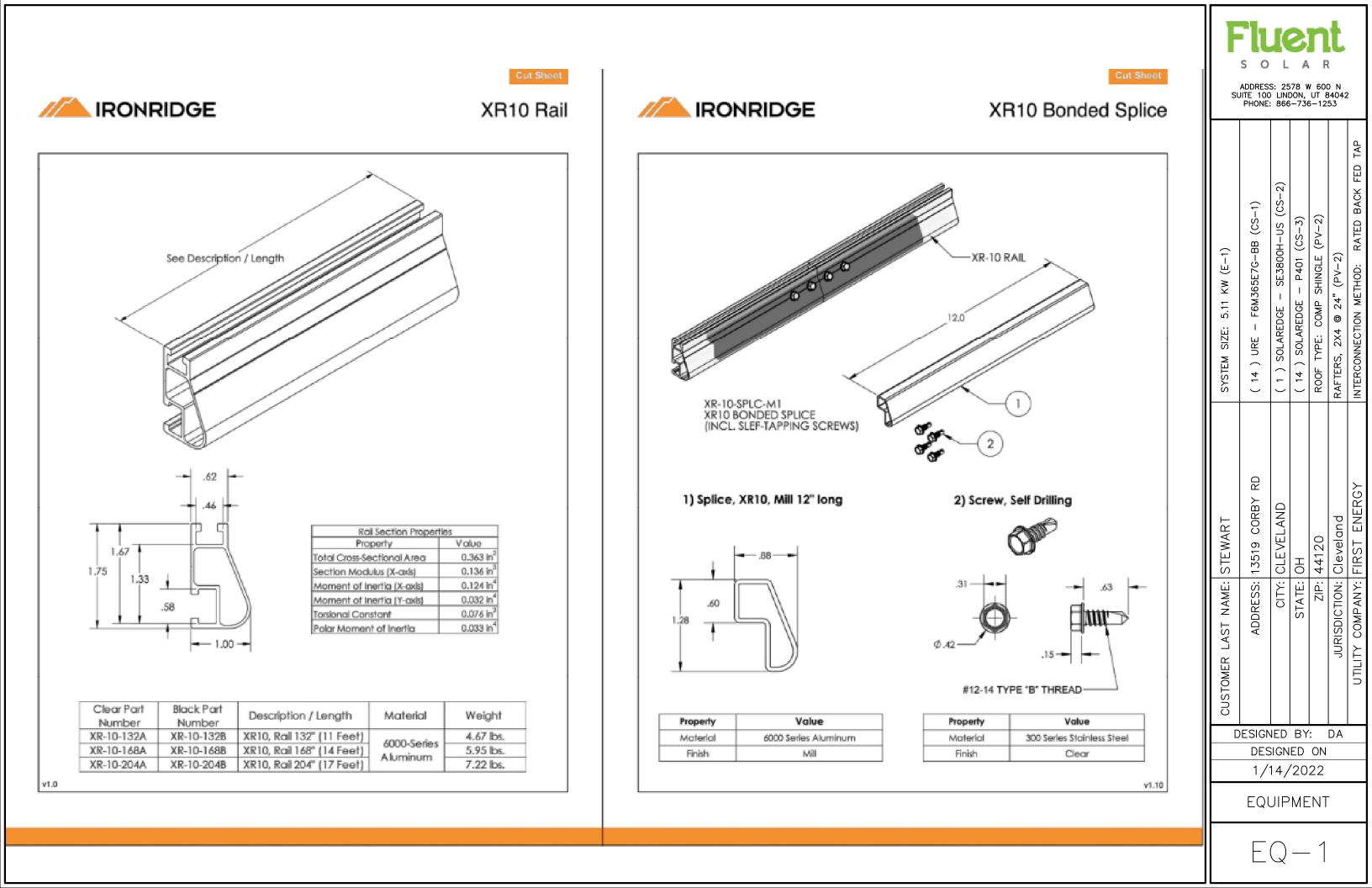


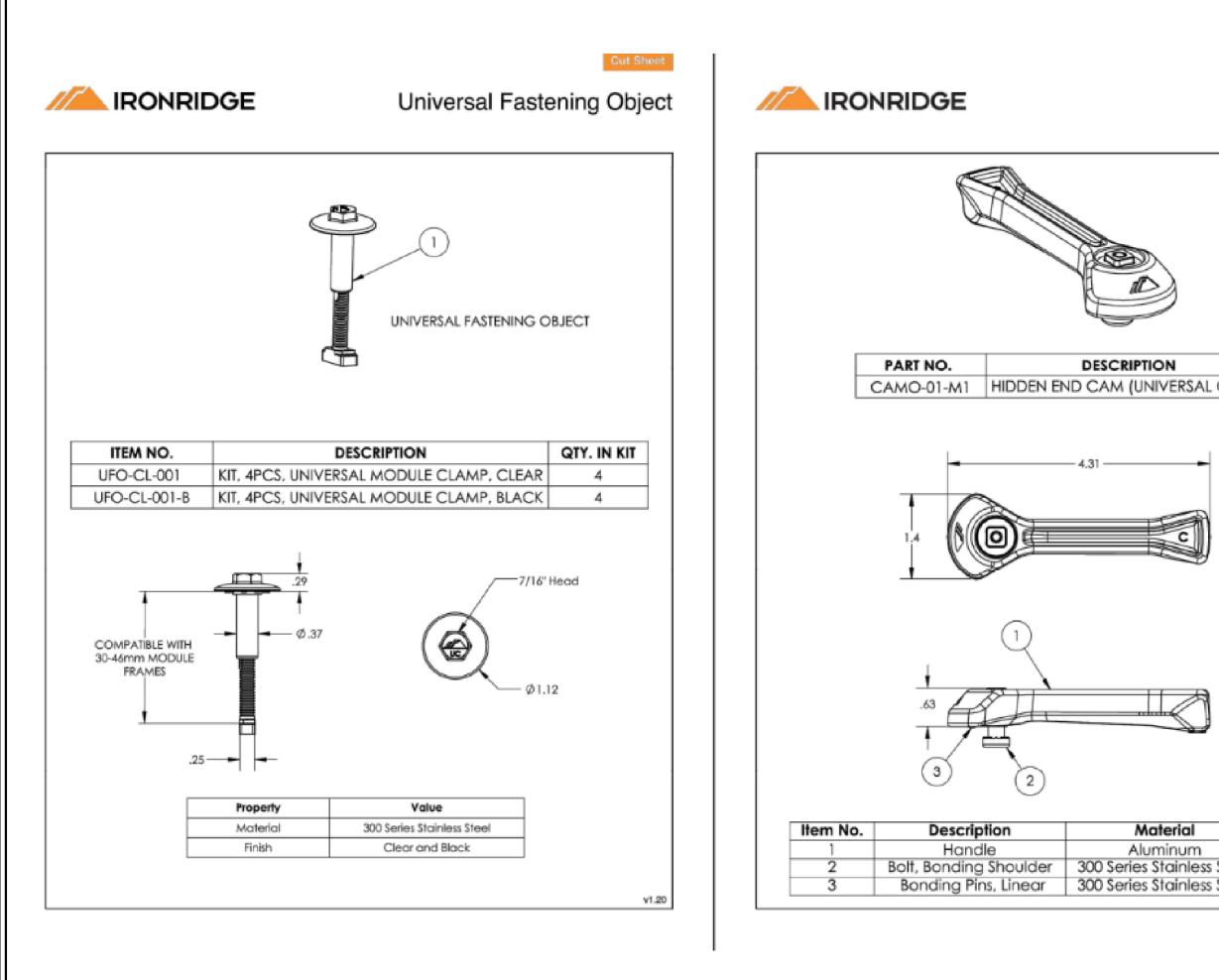
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	Certificate Number Report Reference Issue Date	20191115-E49374 E493748-2017081 2019-NOVEMBER	7
	ertify that representative so the current UL requirement		specified on
Addendum Models/Pro	그라 신수 문법		
16988 1699 17519 1752 17542 1754 17558 1755 17580 1755 17611 1761 17627 1762 17648 1764 17681 1768 17710 1771	Ponent, Roof Mounting H 10 16991 16993 17508 17 20 17521 17522 17523 17 30 17541 17545 17546 17 39 17560 17568 17569 17 55 17586 17587 17588 17 2 17613 17614 17615 17 28 17629 17630 17631 17 19 17650 17651 17659 17 36 17687 17688 17689 17 11 17712 17717 17718 17 2000	509 17510 17511 17512 524 17525 17526 17527 547 17548 17549 17550 570 17571 17572 17573 589 17592 17596 17600 616 17617 17618 17620 632 17633 17636 17633 664 17667 17669 17670 700 17701 17702 17703	2 17513 17514 17536 17537 17551 17555 17551 17555 17601 17600 17601 17600 17621 17622 17638 17633 17671 17672
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15894SS 1	5891SS 15987BSS 17660	17661 17662 17663	
15894SS 1	5891SS 15987BSS 17660	17661 17662 17663	
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15894SS 1	5891SS 15987BSS 17660	17661 17662 17663	
15894SS 1	5891SS 15987BSS 17660	17661 17662 17663	

5830 Las Positas Road, Livermore CA 94551 | 3948 Airway Drive, Rock Hill SC 29732 Phone: (844) 671-6045 | Fax: (800) 689-7975 | www.quickbolt.com QuickBOLT is a division of Quickscrews International Corp.

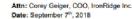






Cut Sheet CAMO		ADDRES	) LINI	DON,	UT 8	34042	2
CLAMP)	SYSTEM SIZE: 5.11 KW (E-1)	(14) URE - F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP
	ME: STEWART	ADDRESS: 13519 CORBY RD	CITY: CLEVELAND	STATE: OH	ZIP: 44120	DN: Cleveland	UTILITY COMPANY: FIRST ENERGY
Finish	CUSTOMER LAST NAME: STEWART	ADDRE	C	STA		JURISDICTION:	υτιμηγ сомра
Mill Steel Clear	D	ESIGN DES		BY ED		DA	
Steel Clear			14/				
		EQI	JIP	ME	INT	-	
		Ε(	Q		2		





Re: Structural Certification and Span Tables for IronRidge Flush Mount System

This letter addresses the structural performance and code compliance of ironRidge's Flush Mount System. The Flush Mount System is a proprietary rooftop mounting system used to support photovolitaic (PV) modules installed in portrait or landscape orientation and set parallel to the underlying roof surface. PV modules are supported by extruded aluminum XR Rails and secured to the rails with IronRidge mounting clamps. The XR Rails are side mounted to a selected roof attachment with 3/8' stainless steel bonding hardware and then attached directly to the roof structure or to a stanchion that is fastened to the underlying roof structure. Assembly details of a typical Flush Mount installation and its core components are shown in Exhibit EX-0015.

The IronRidge Flush Mount System is designed and certified to the structural requirements of the reference standards listed below, for the load conditions and configurations tabulated in the attached span tables.

- ASCE/SEI 7-10 Minimum Design Loads for Buildings and Other Structures (ASCE 7-10)
- 2015 International Building Code (IBC-2015)
- 2016 California Building Code (CBC-2016)
- 2015 Aluminum Design Manual (ADM-2015)

The tables included in this letter provide the maximum allowable spans of XR Rails in the Flush Mount System for the respective loads and configurations listed, covering wind exposure categories B, C, & D, root zones 1, 2 & 3, and roof slopes from 0° to 45°. The span tables are applicable provided that the following conditions are met:

- Span is the distance between two adjacent roof attachment points (measured at the center of the attachment fastener)
- 2. The underlying roof pitch, measured between roof surface and horizontal plane, is 45° or less.

13. Systems using CAMO module clamps shall be installed with the following guidance

- The mean roof height, defined as the average of the roof eave height and the roof ridge height measured from grade, does not exceed 30 feet.
- Module length shall not exceed the listed maximum dimension provided for the respective span table and module width shall not exceed 48°.
- All Flush Mount components shall be installed in a professional workmanike manner per IronRidge's Flush Mount installation menual and other applicable standards for general roof construction practice.

1) For single module installations ("orphan modules") using modules with a length greater than 67.5",

CAMO clamps shall not be installed in regions that experience ground snow loads of 70psf and

2) CAMO will function within a module's design load ratings. Be sure the specific module being used with CAMO is listed in IronRidge's installation manual, is suitable for the environmental conditions of a particular project, and meets the dimensional requirements shown in the figure below.

Frame Compatibility

= 1.2 - 2.2 mm = 15 - 40 mm

greater; such scenarios are shown by asterisks in the applicable span table.

Module Glass/Cells

Figure 1: CAMO Module Frame Dimensional Rea



1495 Zephyr Avenue Hayward, CA 94544 1-800-227-9523





The parameters and adjustments allowed in the span tables are defined as the following:

- 1. The Flush Mount System is designed as a Risk Category II structure as defined by ASCE 7-10 Chart 1.5-1.
- 2. When designing with a roof slope not listed in the span tables, but no greater than 45°, the lesser of the two span values listed immediately below and above the desired slope shall be used. For instance, if one is designing to a roof slope of 12°, use the lesser of the two span values associated with 10° and 15°.
- The wind speed selection shall conform to ASCE 7-10 Fig. 26.5-1A (Risk Category II wind) and any state & local countly/city amendments to the IBC. No special wind topographic features are included in the span tables and the topographic coefficient (Kzt) is taken as 1.0.
- 4. The snow load used in the span tables is the ground snow and shall conform to ASCE 7-10 Fig. 7-1. If a more restrictive snow load is imposed by a local building code/amendment to the IBC, such answ load requirement shall also be complied with. If the local jurisdiction specified snow load is in the format of a flat roof snow load, it shall first be converted to a ground snow following the local building code/amendment before the application of the attached span tables. No special snow conditions are considered including unbalanced, drifting, sliding or ponding snow. Snow load conditions presented in the span tables do not include buildings which are intentionally kept below freezing, kept just above freezing, or unheated.
- 5. The span tables reflect the ASCE 7 prescribed earthquake loads with the maximum magnitudes being:
  - For ground snow no greater than 42psf: S<sub>8</sub> ≤ 2.0g for Site Class A, B, C, or D.
     For ground snow greater than 65psf: S<sub>8</sub> ≤ 1.0g for Site Class A, B, C, or D.
  - 3) For ground snow between 42 and 65psf: S<sub>s</sub> ≤ 1.5g for Site Class A, B, C, or D.
- 6. Roof zone size and definition conforms to ASCE 7-10 Fig. 30.4-2A.
- Allowable span length in the charts may be multiplied by a factor of 1.08 if the rails are continuous over a minimum of three spans.
- 8. An array to roof clearance of 2" minimum must be provided.
- The maximum cantilever length measured from the rail end to the nearest attachment point shall not exceed 40% of the allowable span provided for the respective load & configuration condition from the span tables.
- 10. No rail splices are allowed in the cantilever, outer 2/3 of end spans, or middle 1/3 of interior spans.
- 11. For shaded cells of the span tables, UFO Mid Clamps shall not be installed closer than 20° to the shaded cell's associated Roof Zone.
- 12. When a roof attachment listed in IronRidge's Flush Mount installation manual is considered, the span values provided in this letter can be adjusted using IronRidge's online Design Assistant by checking the capacity of the selected roof attachment against the reaction forces provided in Design Assistant.

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CA Flush Mount System Certification Letter - 1

CA Flush Mount System Certification Letter - 2



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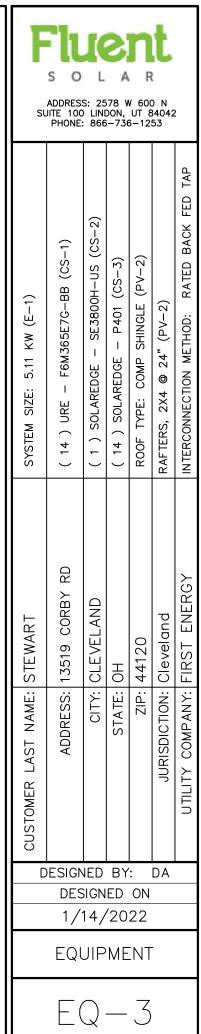


The span tables provided in this letter are certified based on the structural performance of IronRidge XR Rails only with no consideration of the structural adequacy of the chosen roof attachments, PV modules, or the underlying roof supporting members. It is the responsibility of the installer or system designer to verify the structural capacity and adequacy of the aforementioned system components in regards to the applied or resultant loads of any chosen array configuration.





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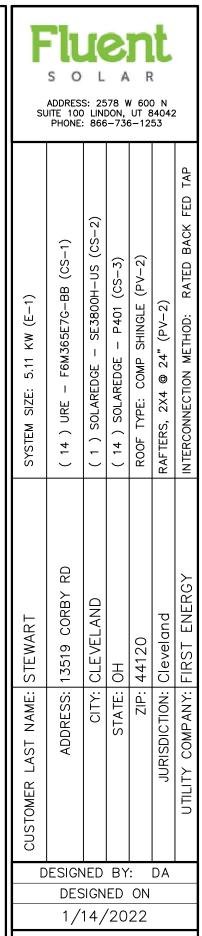
Ra XR																(Maxir		Table (i Iodule													
Wind Speed	Roof Slope	Grou	nd Snow	r: 0 psf		10 psf			20 psf			30 psf			40 psf			50 psf			60 psf			70 psf	S		80 psf			90 psf	
(mph)	(degs.)	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3
	0-7	83	72	55	81	72	55	68	68	55	67	67	55	60	60	55	54	54	54	50	50	50	46	46	46	43	43	43	41	41	41
110	8-27	85	72	56	80	72	56	67	67	56	66	66	56	60	60	56	54	54	54	50	50	50	46	46	46	43	43	43	41	41	41
	28-45	81	79	79	76	76	76	66	66	66	65	65	65	61	61	61	57	57	57	53	53	53	50	50	50	47	47	47	45	45	45
	0-7	84	66	53	81	66	53	68	66	53	67	66	53	60	60	53	54	54	53	50	50	50	46	46	46	43	43	43	41	41	41
115	8-27	84	66	54	80	66	54	67	66	54	66	66	54	60	60	54	54	54	53	50	50	50	46	46	46	43	43	43	41	41	41
	28-45	79	76	76	74	74	74	65	65	65	64	64	64	60	60	60	56	56	56	53	53	53	50	50	50	47	47	47	45	45	45
	0-7	81	64	50	81	64	50	68	64	50	67	64	50	60	60	50	54	54	50	50	50	50	46	46	46	43	43	43	41	41	41
120	8-27	84	64	51	80	64	51	67	64	51	66	64	51	60	60	51	54	54	51	50	50	50	46	46	46	43	43	43	41	41	41
	28-45	76	73	73	73	73	73	64	64	64	64	64	64	59	59	59	55	55	55	52	52	52	50	50	50	47	47	47	45	45	45
	0-7	77	58	46	77	58	46	68	58	46	67	58	46	60	58	46	54	54	46	50	50	46	46	46	46	43	43	43	41	41	<mark>4</mark> 1
130	8-27	80	59	47	79	59	47	66	59	47	65	59	47	60	58	47	54	54	47	50	50	47	46	46	46	43	43	43	41	41	41
	28-45	72	68	68	72	68	68	64	64	64	61	61	61	57	57	57	54	54	54	51	51	51	49	49	49	47	47	47	45	45	45
	0-7	73	54	43	73	54	43	68	54	43	67	54	43	60	54	43	54	54	43	50	50	43	46	46	43	43	43	43	41	41	41
140	8-27	74	54	44	74	54	44	65	54	44	64	54	44	59	54	44	54	54	44	50	50	44	46	46	44	43	43	43	41	41	41
	28-45	67	64	64	67	64	64	60	60	60	59	59	59	56	56	56	53	53	53	50	50	50	48	48	48	46	46	46	44	44	44
	0-7	68	50	40	68	50	40	68	50	40	67	50	40	60	50	40	54	50	40	50	50	40	46	46	40	43	43	40	41	41	40
150	8-27	72	51	41	72	51	41	64	51	41	64	51	41	57	51	41	53	51	41	50	50	41	46	46	41	43	43	41	41	41	41
	28-45	64	59	59	64	59	59	58	58	58	57	57	57	54	54	54	51	51	51	49	49	49	47	47	47	45	45	45	43	43	43
	0-7	64	48	38	64	48	38	64	48	38	64	48	38	60	48	38	54	48	38	50	48	38	46	46	38	43	43	38	41	41	38
160	8-27	65	48	39	65	48	39	64	48	39	61	48	39	56	48	39	53	48	39	49	48	39	46	46	39	43	43	39	41	41	39
	28-45	60	55	55	60	55	55	56	55	55	55	55	55	52	52	52	50	50	50	48	48	48	46	46	46	44	44	44	<mark>4</mark> 2	42	42
	0-7	60	44	35	60	44	35	60	44	35	60	44	35	60	44	35	54	44	35	50	44	35	46	44	35	43	43	35	41	41	35
170	8-27	61	45	36	61	45	36	61	45	36	60	45	36	55	45	36	52	45	36	49	45	36	46	45	36	43	43	36	41	41	36
	28-45	57	52	52	57	52	52	54	52	52	54	52	52	51	51	51	48	48	48	46	46	46	45	45	45	43	43	43	42	42	42
	0-7	56	42	33	56	42	33	56	42	33	56	42	33	56	42	33	54	42	33	50	42	33	46	42	33	43	42	33	41	41	33
180	8-27	58	42	34	58	42	34	58	42	34	58	42	34	54	42	34	51	42	34	48	42	34	46	42	34	43	42	34	41	41	34
	28-45	54	50	50	54	50	50	52	50	50	52	50	50	49	49	49	47	47	47	45	45	45	44	44	44	42	42	42	41	41	41
			= min 64" span = min 64" span = min 48" span = Note: additional installation requirement on UFO middle clamps. Please refer to Note 10 on Page 2 for details									REV 5/C	09/2018																		

= min 72" span

= min 64" span

= min 48" span

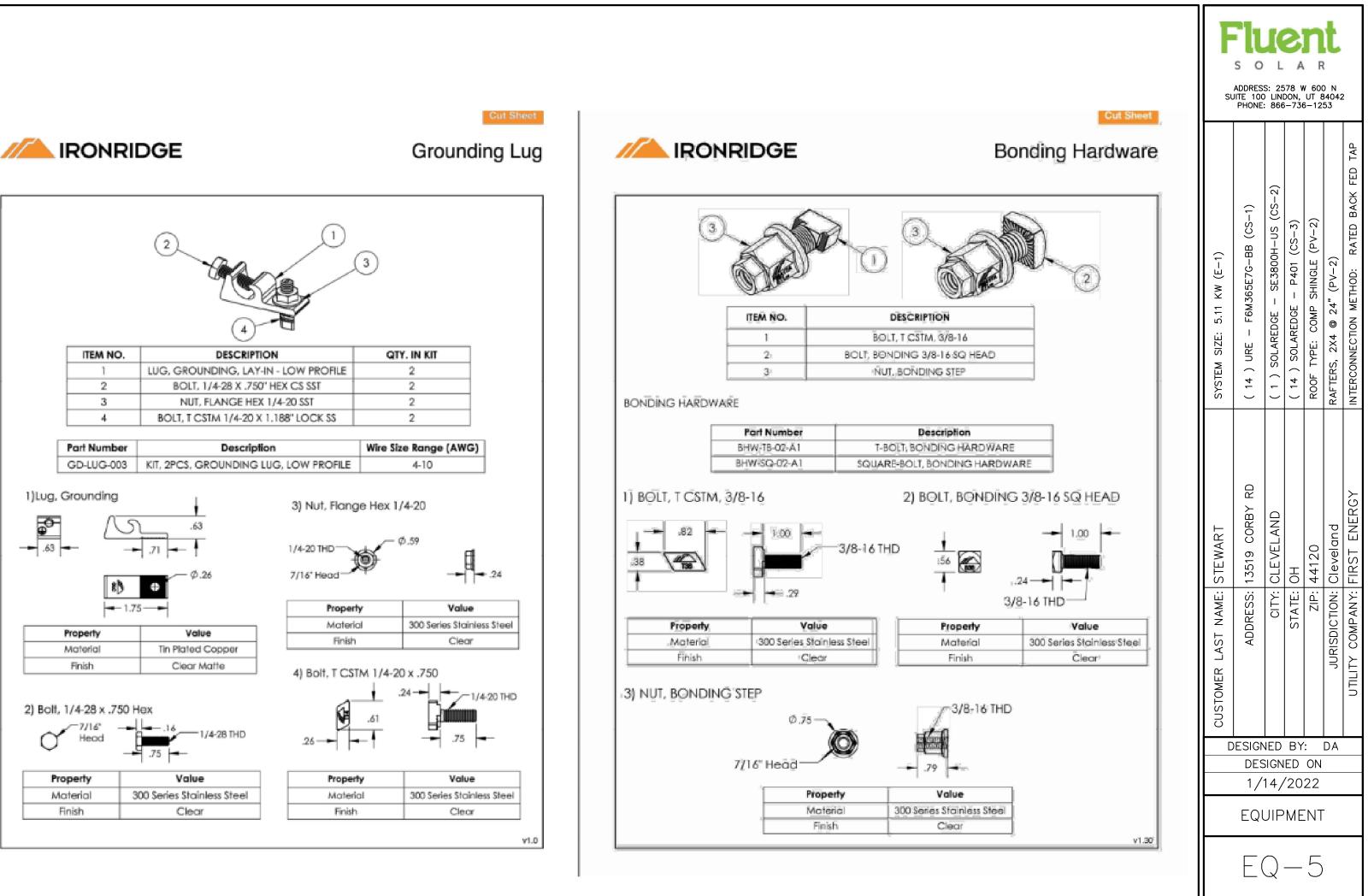
= Note: additional installation requirement on UFO middle clamps. Please refer to Note 10 on Page 2 for details.



EQUIPMENT

EQ-4

REV 5/09/2018



# UNITED RENEWABLE ENERGY

F6M E7G-BB / 120 cells 345W - 365 W Mono-Crystalline PV Module

URE modules use URE's state-of -the art cell cutting technology and advanced module manufacturing experience.



# **Key Features**

+ Publicly Traded Taiwanese Company. Formed as the merger of four Cell and Module Manufacturers in 2018. All four founding companies (Neo Solar Power, Gintech, Solartech, NDF) were in existence since 2008 or earlier.

+ Over 400MW Of Projects Installed in the United States.

+ 25 Year Output Warranty and 25 Year Product Guarantee

+ Winner of Taiwan Excellence Award 7 Consecutive Years for Highest Efficiency Module.

+ Super All Black Design for High Profile **Residential and Commercial Installations.** 

+ High Quality Solar Cell Technology allows URE to be a major international exporter to Solar Module manufacturers in the United States and Europe.



### **Electrical Data**

Model - STC		F6M345E7G-BB	F6M350E7G-BB	F6M355E7G-BB	F6M360E7G-BB	F6M365E7G-BB
Maximum Rating Power (Pmax)	[W]	345	350	355	360	365
Module Efficiency	[%]	18.68	18.95	19.22	19.50	19.77
Open Circuit Voltage (Voc)	[V]	39.90	40.10	40.30	40.50	40.70
Maximum Power Voltage	[V]	33.40	33.60	33.80	34.00	34.20
Short Circuit Current (Isc)	[A]	11.13	11.19	11.26	11.35	11.43
Maximum Power Current	[A]	10.33	10.42	10.51	10.59	10.68

\*Standard Test Condi on (STC): Cell Temperature 25 °C, Irradiance 1000 W/m<sup>2</sup>, AM 1.5

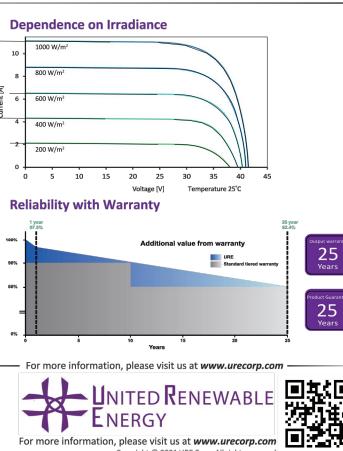
\*Values without tolerance are typical numbers.Measurement tolerance: ± 3%

### **Mechanical Data**

Item	Specification
Dimensions	1762 mm (L) <sup>1</sup> x 1048 mm (W) <sup>1</sup> x 35 mm (D) <sup>2</sup> / 69.37 " (L) <sup>1</sup> x 41.26 " (W) <sup>1</sup> x 1.38 " (D) <sup>2</sup>
Weight	19.6 kg / 43.21 lbs
Solar Cell	Mono / 83 mm x 166mm
Front Glass	White toughened safety glass, 3.2mm thickness
Frame	Black anodized aluminum profile
Junction Box	IP ≥67, 3 diodes
Connectors Type	MC4 Compatible
Cable	1.2M (cable length can be customized), 4mm <sup>2</sup>
Packaging Configuration	31 pcs Per Pallet, 806 pcs per 40' HQ container
<ol> <li>With assembly tolerance of ± 2</li> <li>With assembly tolerance of ± 0.3</li> </ol>	

## ltem Nominal Mode Temperature C Temperature C Temperature C irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s.

### **Engineering Drawing (mm)** 1000 W/m 10 800 W/m 600 W/m 400 W/m<sup>2</sup> 200 W/m $008 \pm$ 5 10 15 0 $1048 \pm 1$ $998 \pm$ FRONT VIEW BACK VIEW 90% 80% C-Mounting Hole B-Mounting Hole 4 place 4 place





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# **Operating Conditions**

Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1000 VDC
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

## **Temperature Characteristics**

	Specificatio
ule Operating Temperature	45 °C ± 2°C
Coefficient of Isc	0.048 % / °C
Coefficient of Voc	-0.27 % / °C
Coefficient of Pmax	-0.35 % / °C

\*Nominal module operating temperature (NMOT): Air mass AM 1.5,

\*Reduction in efficiency from 1000W/m<sup>2</sup> to 200W/m<sup>2</sup> at 25°C: 3.5 ± 2%.

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ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253

SYSTEM SIZE: 5.11 KW (E-1)	(14) URE - F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP				
STEWART	RESS: 13519 CORBY RD	CITY: CLEVELAND	ЮН	ZIP: 44120	CTION: Cleveland	PANY: FIRST ENERGY				
CUSTOMER LAST NAME: STEWART	ADDRESS:	CITY:	STATE: OH	:dIZ	JURISDICTION:	UTILITY COMPANY:				
D	DESIGNED BY: DA DESIGNED ON									
	1/14/2022									
	MODULE									
	С	S		- 1						

# **Power Optimizer**

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505



# POWER **OPTIMIZE** フ

# PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- / Up to 25% more energy
- Superior efficiency (99.5%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- / Flexible system design for maximum space utilization

- Fast installation with a single bolt
- / Next generation maintenance with modulelevel monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety



<b>/ Power C</b> For North	Ameri	ica	Ρ401 / Ι	2405 / F	9485 / P	505					ADDRES	L S: 25 D LINI	A 578 V DON,	W 600	) N 8404:	2
Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72- cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P405 (for high- voltage modules)	P485 (for high- voltage modules)	P505 (for higher current modules)								FED TAP
INPUT			modules									5				RACK
Rated Input DC Power®	320	350	370	400	4	05	485	505	W		$\left \begin{array}{c} -\\ -\end{array}\right $	(cs				
Absolute Maximum Input Voltage (Voc at lowest temperature)	4	8	60	80	60	12	5(2)	83(2)	Vdc		(cs–	-US	S-3)	-2)		DATED
MPPT Operating Range	8 -	8 - 48 8 - 60 8 - 80 8-60 12.5 - 105 12.5 - 83 Vdc												-V-)		
Maximum Short Circuit Current	11         11.02         11         10.1         11.75         11         14         Adc											SE3800H	0		2)	
lsc) Maximum DC Input Current		13.75		12,5	14.65	12	2.5	17.5	Adc	Ц Ц	F6M365E7G-	38	401	SHINGLE		ġ
Maximum Efficiency		13.75		99.		12		11.5	%	≥ ×	35E	R		€	-v-)	
Weighted Efficiency				98.8				98.6	%		136	1			24"	METUOD.
Overvoltage Category								·		5.11	9	Щ	8	μĀ		
OUTPUT DURING OPER/ Maximum Output Current Maximum Output Voltage	ATION (POW	er optimiz	ER CONNECT	TED TO OPEI	and the second secon	AREDGE INV	<b>/ERTER)</b> 85		Adc Vdc	SIZE: 5	URE – F	SOLAREDGE	SOLAREDGE	TYPE: COMP	2X4 @	
OUTPUT DURING STAND	BY (POWER	OPTIMIZER	DISCONNECT	ED FROM SO	LAREDGE IN	VERTER OR	SOLAREDGE	INVERTER C	OFF)	Σ		S	S S	≿	ທໍ	
Gafety Output Voltage per Power Optimizer				1±	0.1				Vdc	SYSTEM	4	$\frown$	4	ROOF	RAFTERS,	
	F									S	5	5	5	R0	βAF	
			FCC Pa	art15 Class B, IEC6	1000-6-2. IEC6100	0-6-3									œ	-
Safety				IEC62109-1 (class		000										ĺ
Material				UL94 V-0, U	V Resistant											ĺ
INSTALLATION SPECIFIC Maximum Allowed System /oltage Compatible inverters Dimensions (W x L x H) Weight (including cables) nput Connector nput Wire Length Dutput Wire Type / Connector Dutput Wire Length				/ 5.1 x 6 x 1.3 750 / 1.7 4 <sup>(3)</sup> Double Insul	and Three Phase i 129 x 153 x 29.5 / 5.1 x 6 x 1.16 655 / 1.5 0.16 or 0.9 /0.52 or 2.95 <sup>(5)</sup> ated / MC4 1.2 /	129 x 159 x 49. 845	5 / 5.1 x 6.3 x 1.9 / 1.9 Single or dual MC4 <sup>(3)(4)</sup> 0.16 / 0.52	129 x 162 x 59 / 5.1 x 6.4 x 2.3 1064 / 2.3 MC4 <sup>(3)</sup>	gr / lb m / ft m / ft	: STEWART	: 13519 CORBY RD	CLEVELAND	: OH	: 44120	: Cleveland	
Operating Temperature Range <sup>®</sup>				-40 to +85 /					°C / °F	ШЩ	SS	CITY:	ATE:	ZIP:	N	
(2) NEC 2017 requires max input voltage I 3) For other connector types please conf 4) For dual version for parallel connection one PV module. When connecting a 5) Longer inputs wire length are available (6) For ambient temperature above +85° PV System Design Using a SolarEdge Inverter <sup>(7)(8)</sup> Minimum String Length	Intact SolarEdge ion of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to a single module seal the unused input connectors with the supplied pair of seals ble for use. For 0.9m input wire length order P401-xxd.xxx 5°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details  Three Phase for 208V grid 10 18									CUSTOMER LAST NAME:	ADDRESS:	S	STA		JURISDICTION:	
(Power Optimizers)	P405, P485, P5	05	6			8	14				ESIG		Bv	·.	DA	<u> </u>
Maximum String Length (Power Oj Maximum Power per String	otimizers)		25 0 (6000 with )-US - SE11400- US)	5250		25 6000 <sup>(10)</sup>	50 <sup>®)</sup> 12750 <sup>m</sup>	- w	/		DES	SIGN	ED	ON		
<ul> <li>(8) It is not allowed to mix P405/P485/P</li> <li>(9) A string with more than 30 optimizer</li> <li>(10) For 208V grid: it is allowed to install</li> </ul>	Lengths or Orientations         Yes           parmation refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf         //P430/P302/P430/P302/P400/P401 in one string           optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement to install up to 6,500W per string when the maximum power difference between each string is 1,000W         ved to install up to 15,000W											14/ PTIN				
© SolarEdge Technologies Ltd. All rights reserve	allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc.										С	S		2		

/ Power C For North	Amer	ica									ADDRES	L S: 25 ) LINI	A 78 V DON,	R / 600 UT 8	N 4042	2
P320 / P340 ,	/ P370 /	′ P400 /	′ P401 / I	P405 / P	2485 / P	505							,			
Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72- cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P405 (for high- voltage modules)	P485 (for high- voltage modules)	P505 (for higher current modules)				(				FED TAP
INPUT			modulesy									S-2)				BACK
Rated Input DC Power <sup>(1)</sup> Absolute Maximum Input Voltage	320	350 8	370 60	400 80	60	05	485 5 <sup>(2)</sup>	505 83 <sup>(2)</sup>	W Vdc		(cs-1)	IS (CS-	-3)	-2)		
(Voc at lowest temperature) MPPT Operating Range	8 -	48	8 - 60	8 - 80	8-60	12.5	- 105	12.5 - 83	Vdc		-88	_	(cs-	-ν-)		RATED
Maximum Short Circuit Current	11	11.02	11	10.1	11.75		1	14	Adc	$\overline{-}$		00			2)	
(Isc) Maximum DC Input Current		13.75		12.5	14.65	12	2.5	17.5	Adc	Ľ	F6M365E7G	SE3800H-US	P401	SHINGLE	(PV-2)	ä
Maximum Efficiency				99.	.5			1	%	≥ ×	65E	S	и 	HIS		METHOD:
Weighted Efficiency Overvoltage Category				98.8				98.6	%	7	\$M3		Щ		24"	ШΣ
OUTPUT DURING OPER	ATION (POW		ZER CONNECT			AREDGE INV	(ERTER)			ъ. 1	Fe	0GE	DG	COMP	0	Z
Maximum Output Current Maximum Output Voltage			60	15			85		Adc Vdc	SIZE:	URE –	SOLAREDGE	SOLAREDGE	ы Б	2X4	INTERCONNECTION
OUTPUT DURING STAND	DBY (POWER	OPTIMIZER		ED FROM SO	LAREDGE IN	VERTER OR	SOLAREDGE	INVERTER C				SOI	14 ) SC			
Safety Output Voltage per Power Optimizer				1±	0.1				Vdc	SYSTEM	14 )	-			RAFTERS,	
STANDARD COMPLIANC	E	E								S	)	$\overline{}$	)	R	RA	Ľ
EMC Safety			FCC Pa	art15 Class B, IEC61 IEC62109-1 (class		0-6-3										
Material				UL94 V-0, U												
RoHS																
INSTALLATION SPECIFIC Maximum Allowed System	ATIONS			100												
Voltage				100					Vdc		Δ					
Compatible inverters	100	452 075 454		dge Single Phase 129 x 153 x 33.5	and Three Phase 129 x 153 x 29.5			129 x 162 x 59	mm		R					5
Dimensions (W x L x H)	129 x	29 x 153 x 27.5 / 5.1 x 6 x 1.1 / 5.1 x 6 x 1.3 / 5.1 x 6 x 1.16 29 x 159 x 49.5 / 5.1 x 6.3 x 1.9 / 5.1 x 6.4 x 2.3					/ in		В					Ē		
Weight (including cables)		630 / 1.4		750 / 1.7	655 / 1.5	845	/ 1.9 Single or dual	1064 / 2.3	gr / lb	RT	CORB'	AN			рu	ΕŊ
Input Connector			MC	4(3)		1	MC4 <sup>(3)(4)</sup>	MC4(3)		ΑA		VEL		0	elar	
Input Wire Length		0.1	6 / 0.52	0.16 or 0.9 /0.52 or 2.95 <sup>(5)</sup> 0.16 / 0.52			0.16 / 0.52		m / ft	TEWA	519	Е<	_	120	Cleveland	S
Output Wire Type / Connector				Double Insulated / MC4					ST	13!	CLE	НО	441	Cle	FIR	
Output Wire Length Operating Temperature Range <sup>®</sup>	0.9 /	2.95		-40 to +85 /	1.2 /	3.9			m/ft °C/°F	ய்						
Protection Rating				IP68 / N					C/1	NAME	ADDRESS:	CITY:	ATE:	ZIP:	IO	ź
Relative Humidity				0 - 1					%	ÌŽ	DRI		ST,		CT	<u>d</u>
(1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed         (2) NEC 2017 requires max input voltage be not more than 80V         (3) For other connector types please contact SolarEdge         (4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals         (5) Longer inputs wire length are available for use. For 0.9m input wire length order P401-xxxLxx         (6) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details         PV System Design Using a SolarEdge Inverter <sup>(7)</sup> (8)       Single Phase HD-Wave       Three Phase for 208V grid       Three Phase for 277/480V grid						CUSTOMER LAST	AD				JURISDICTION:	UTILITY COMPANY:				
Minimum String Length (Power Optimizers)	P320, P340, P3 P400, P401		8			10	18									
Maximum String Length (Power O	P405, P485, P5 ptimizers)	05	6 25			8 25	14 50 <sup>(9)</sup>			D	ESIGN	NED	ΒY	:	DA	
			00 (6000 with 0-US - SE11400- US)	5250		6000(10)	12750(11)	w	 ,			SIGN				
Parallel Strings of Different Lengths or Orientations Yes							1/	14/	20	22						
<ul> <li>(7) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf</li> <li>(8) It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400/P400 in one string</li> <li>(9) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement</li> <li>(10) For 208V grid: it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W</li> <li>(11) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W</li> </ul>							OPTIMIZER									
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solaredge.com

# Single Phase Inverter with HD-Wave Technology

for North America SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US



### Optimized installation with HD-Wave technology

/ Small, lightweight, and easy to install both

Optional: Faster installations with built-in consumption metering (1% accuracy) and

production revenue grade metering (0.5% accuracy,

solaredge

outdoors or indoors

ANSI C12.20)

/ Built-in module-level monitoring

- / Specifically designed to work with power optimizers / UL1741 SA certified, for CPUC Rule 21 grid compliance
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12

solaredge.com

### MODEL NUMBER SE3000H-US SE3800H-US SE5000H-US SE6000H-US SE7600H-US SE10000H-US SE11400H-US APPLICABLE TO INVERTERS WITH PART NUMBER SE3000H-US SE300H-US SE300H-US</t

SE7600H-US / SE10000H-US / SE11400H-US

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/

for North America

INVERTERS

WITH PART NUMBER	SEAMAT ANNADAR										
OUTPUT											
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA			
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA			
AC Output Voltage MinNomMax. (211 - 240 - 264)	~	~	~	~	~	~	~	Vac			
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~	-	✓	-		~	Vac			
AC Frequency (Nominal)		59.3 - 60 - 60.5%									
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A			
Maximum Continuous Output Current @208V		16	-	24	a.		48.5	А			
Power Factor		1, Adjustable - 0.85 to 0.85									
GFDI Threshold		1									
Utility Monitoring, Islanding Protection, Country Configurable Thresholds		Yes									
INPUT											
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W			
Maximum DC Power @208V		5100	~	7750	-	~	15500	W			
Transformer-less, Ungrounded				Yes							
Maximum Input Voltage			480								
Nominal DC Input Voltage		3	380			400		Vdc			
Maximum Input Current @240V <sup>(2)</sup>	8.5	10.5	13.5	16.5	20	27	30.5	Adc			
Maximum Input Current @208V <sup>(2)</sup>	-	9	-	13.5	-	-	27	Adc			
Max. Input Short Circuit Current	45										
Reverse-Polarity Protection		Yes									
Ground-Fault Isolation Detection	600ka Sensitivity										
Maximum Inverter Efficiency	99 99.2										
CEC Weighted Efficiency	99 @ 240V 98.5 @ 208V										
Nighttime Power Consumption	< 2.5							W			

/ Single Phase Inverter with HD-Wave Technology

(1) For other regional settings please contact SolarEdge support
 (2) A higher current source may be used; the inverter will limit its input current to the values stated

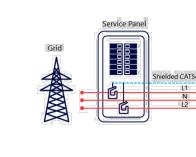
# / Single Phase Inverter w for North America

SE3000H-US / SE3800H-US / SE5000H SE7600H-US / SE10000H-US / SE1140

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000			
ADDITIONAL FEATURES						
Supported Communication Interfaces			RS485, E			
Revenue Grade Metering, ANSI C12.20						
Consumption metering						
Inverter Commissioning		With the SetA	op mobile a			
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12			Automa			
STANDARD COMPLIANCE						
Safety		UL1741, U	L1741 SA, UI			
Grid Connection Standards						
Emissions						
INSTALLATION SPECIFICAT	IONS					
AC Output Conduit Size / AWG Range	1" Maximum /					
DC Input Conduit Size / # of Strings / AWG Range		1" Maxir	num / 1-2 st			
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 /			
Weight with Safety Switch	22	/ 10	25.1/			
Noise		~	25			
Cooling						
Operating Temperature Range						
Protection Rating			1			
(3) Inverter with Revenue Grade Meter P/N: Si should be ordered separately: SEACT0750- (1) Full persons to at least 50% (132%) for an	200NA-20 or SEACT07	50-400NA-20. 20 units	per box			

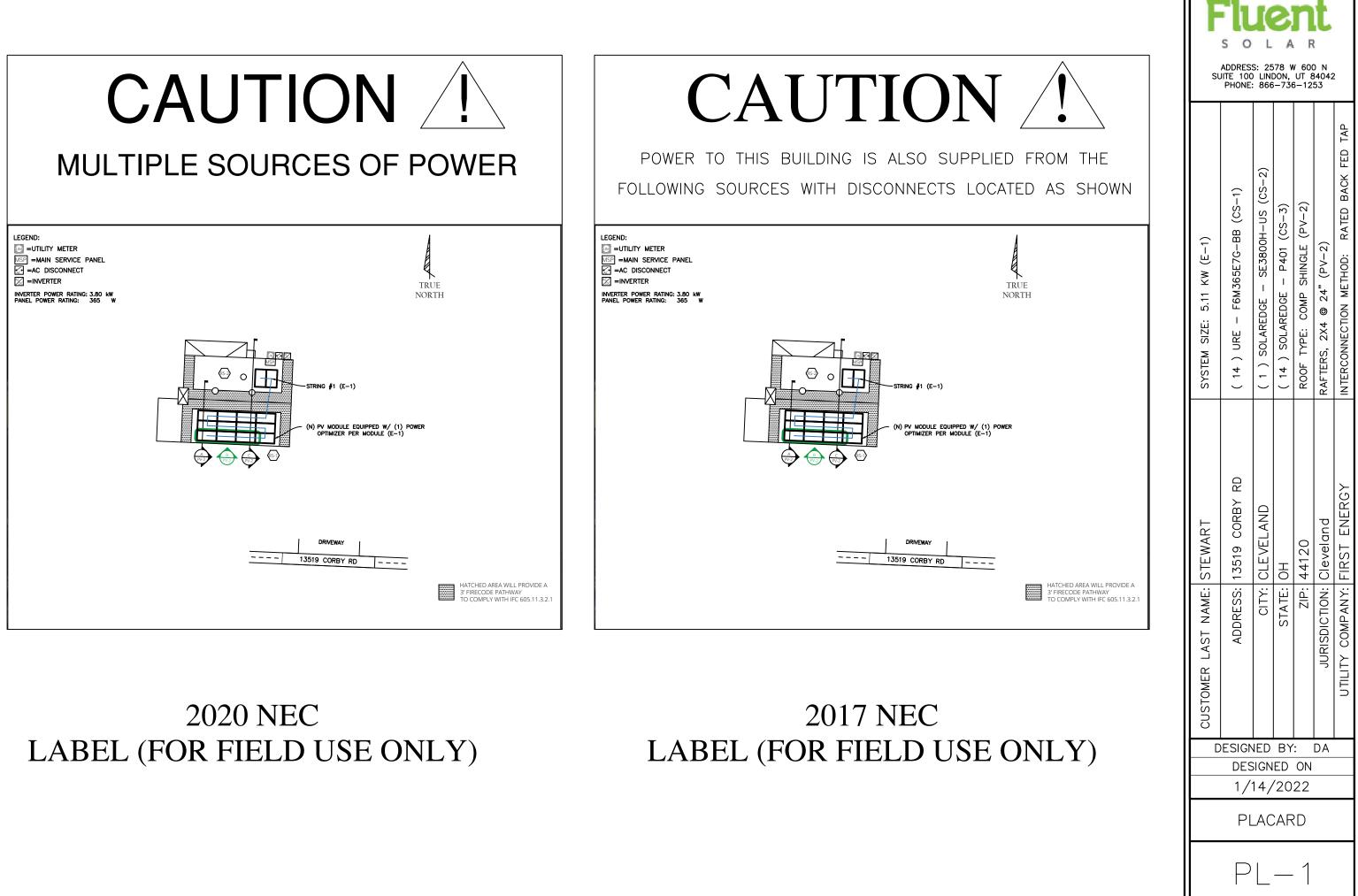
### How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's ex panel, homeowners will gain full insight into their household e



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	ADDRESS: 2578 W 600 N SUITE 100 LINDON, UT 84042 PHONE: 866-736-1253							
With HD-Wave Technology         PH-US / SE6000H-US/         00H-US         BUD SE6000H-US         SE600H-US         SE600H-US <th>SYSTEM SIZE: 5.11 KW (E-1)</th> <th>(14 ) URE – F6M365E7G-BB (CS-1)</th> <th>(1) SOLAREDGE - SE3800H-US (CS-2)</th> <th>(14) SOLAREDGE - P401 (CS-3)</th> <th>ROOF TYPE: COMP SHINGLE (PV-2)</th> <th>RAFTERS, 2X4 @ 24" (PV-2)</th> <th>INTERCONNECTION METHOD: RATED BACK FED TAP</th>	SYSTEM SIZE: 5.11 KW (E-1)	(14 ) URE – F6M365E7G-BB (CS-1)	(1) SOLAREDGE - SE3800H-US (CS-2)	(14) SOLAREDGE - P401 (CS-3)	ROOF TYPE: COMP SHINGLE (PV-2)	RAFTERS, 2X4 @ 24" (PV-2)	INTERCONNECTION METHOD: RATED BACK FED TAP	
450 x 70 y 174       213 x 14.6 x 7.3 / 540 x 370 x 185       h / mini r 14         14       262 / 119       38.8 / 17.6       b / kgi r 140 / 40 h / 10 / 10 / 10 / 10 / 10 / 10 / 10 /	CUSTOMER LAST NAME: STEWART	ADDRESS: 13519 CORBY RD	CITY: CLEVELAND	STATE: OH	ZIP: 44120	JURISDICTION: Cleveland	UTILITY COMPANY: FIRST ENERGY	
			51GN 14/		0N 22	DA		
		C	S		3			

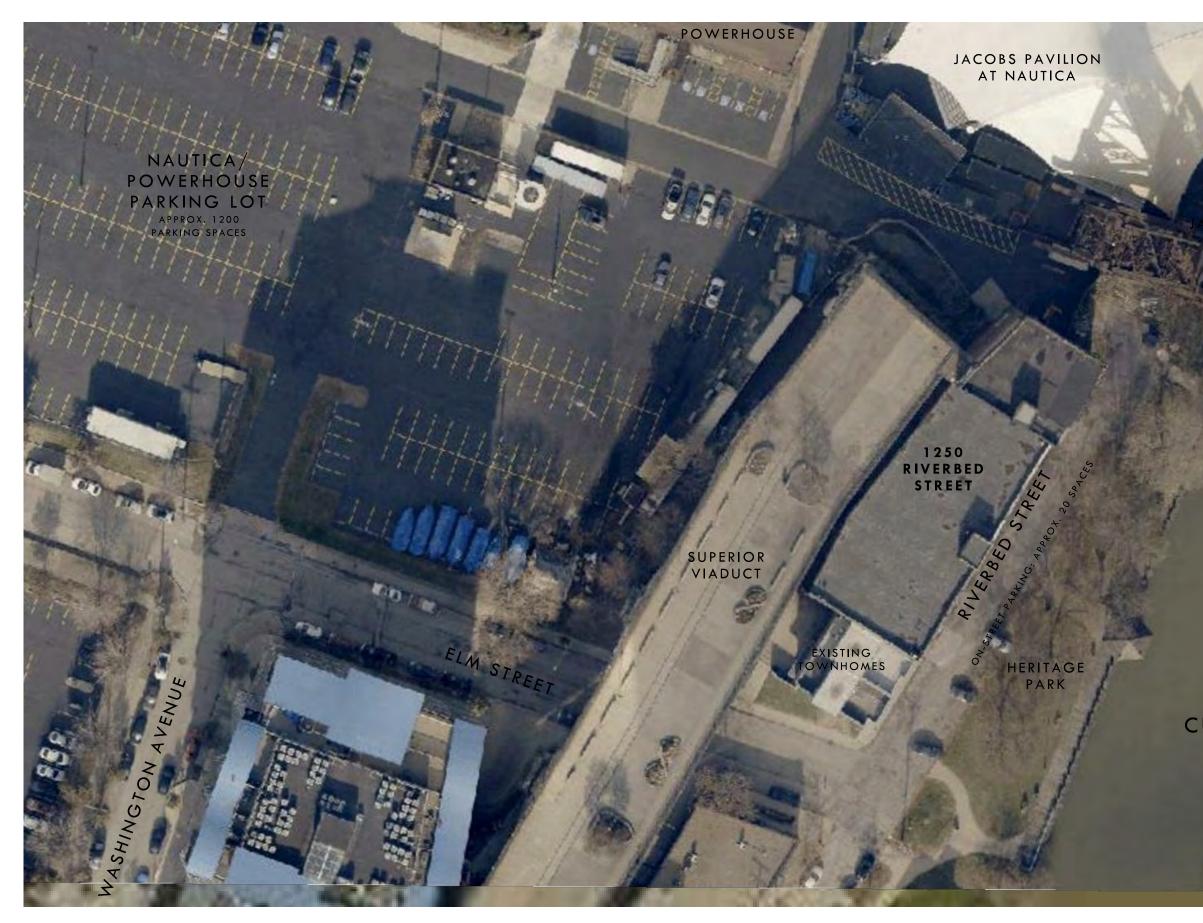


March 24, 2022



# Case 22-029: Superior Viaduct Apollo Apartments 1250 Riverbed Road

Renovations and Landscaping adjacent to Viaduct Ward 3: McCormack Project Representatives: Ron Tannenbaum, RDL Architects; Michael Apt, Apt92; Kevin Kelley, Porter Wright



**SD0.1 EXISTING CONDITIONS - AERIAL VIEW** 

RDL ARCHITECTS 16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 T: 216-752-4300 F: 216-752-4301 www.rdlarchitects.com ARCHITECTS

APOLLO APARTMENTS **1250 RIVERBED STREET** CLEVELAND, OHIO



GE

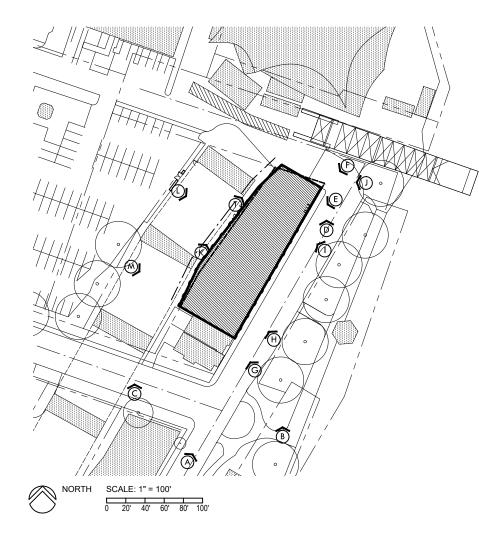


NORTH

SCALE: 1" = 50' 0 10' 20' 30' 40' 50 COPYRIGHT © 2021 : #21028

**USGS** National Map

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# SD0.2 EXISTING CONDITIONS & CONTEXT

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APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO



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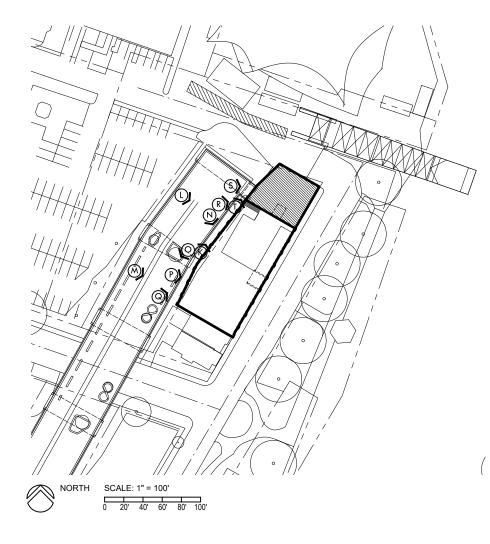


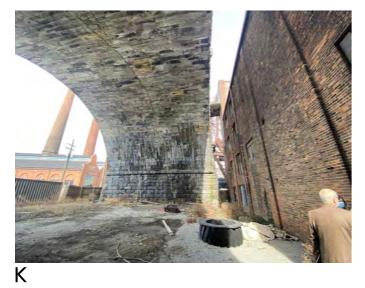
July 8, 2021

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# SD0.3 EXISTING CONDITIONS & CONTEXT

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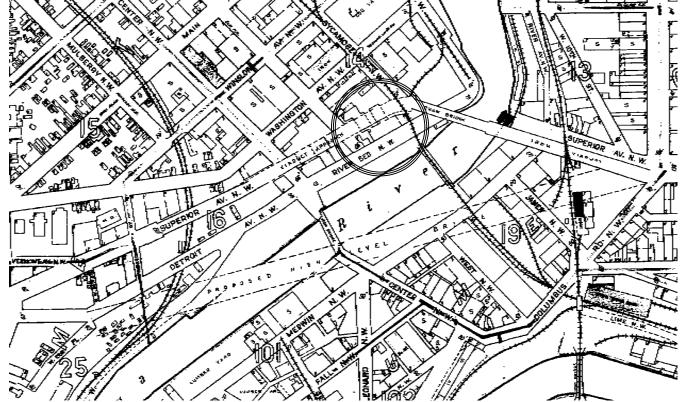


July 8, 2021

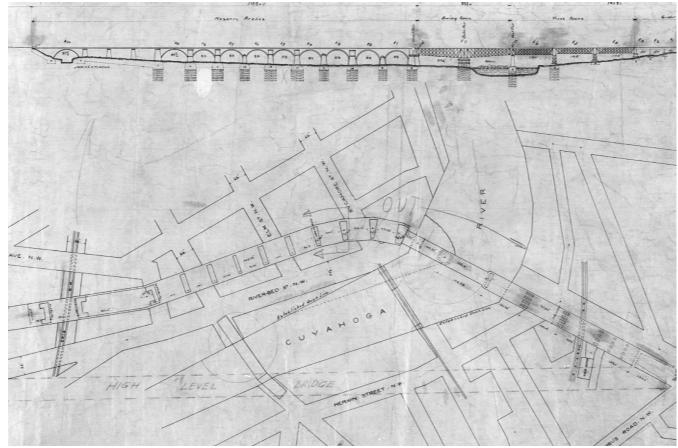
APT 92

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Sanborn Fire Insurance Map, 1916

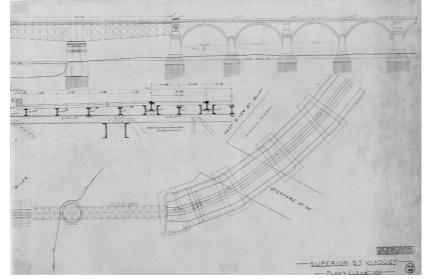




Historic American Engineering Record, Library of Congress



Date unk., circa 1940s Cuyahoga Co. Engineer's Photography Collection, clevelandmemory.org



Superior Viaduct: 1915 Copies of original drawings

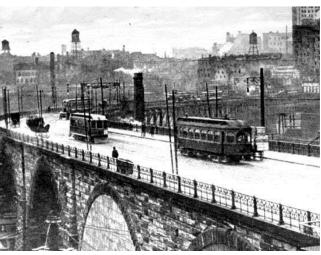
Original 1878 Superior Viaduct Configuration

#### **SD0.4** SITE HISTORY

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APOLLO APARTMENTS **1250 RIVERBED STREET** CLEVELAND, OHIO

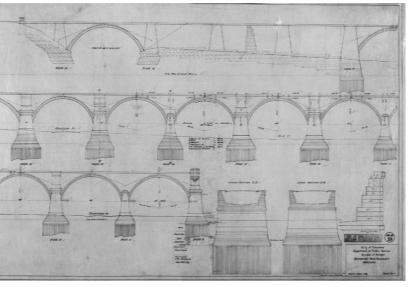


Gerald E. Brookins Collection, clevela



View circa 1978

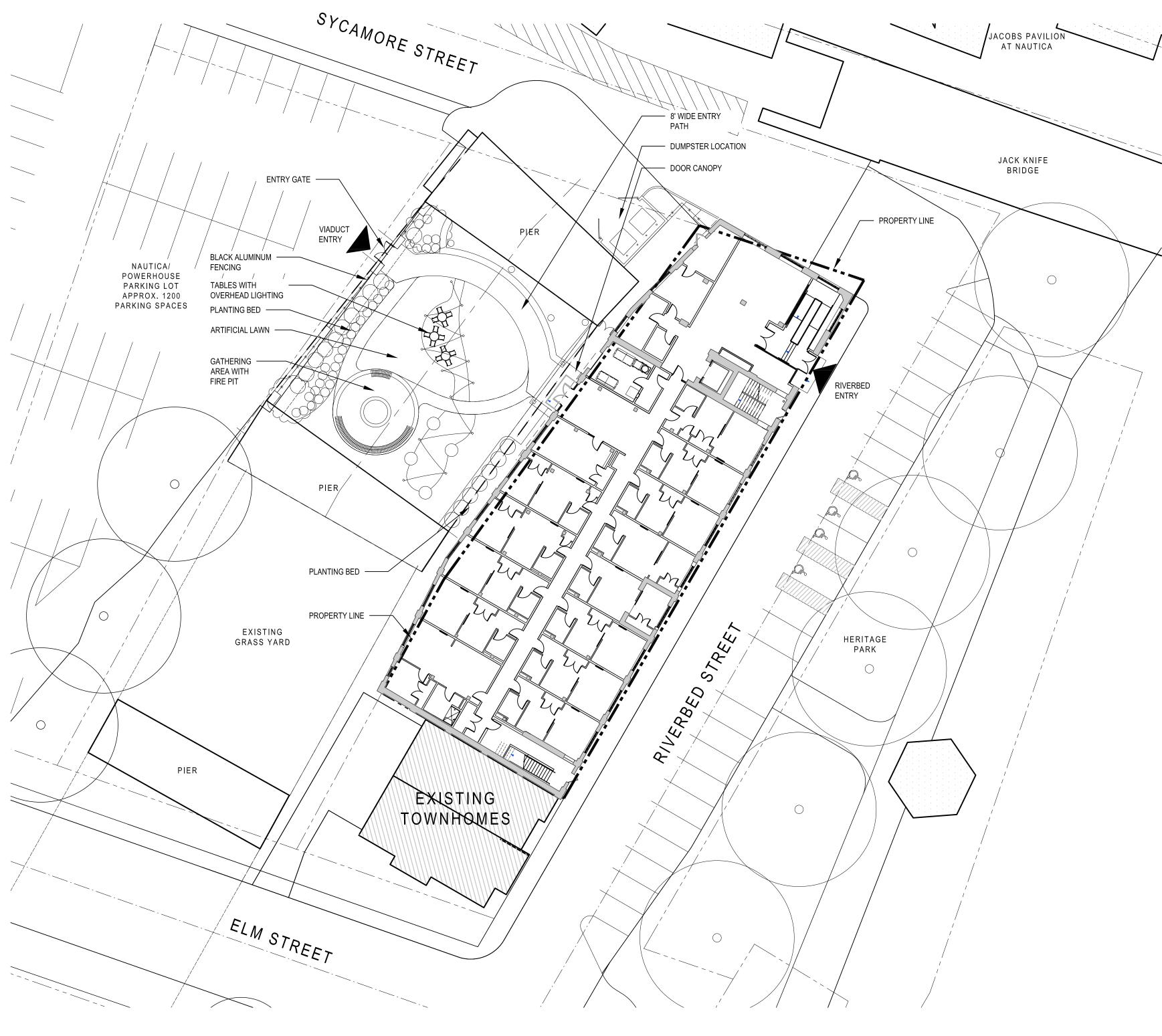
Historic American Engineering Record, Library of Congress

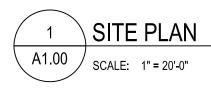


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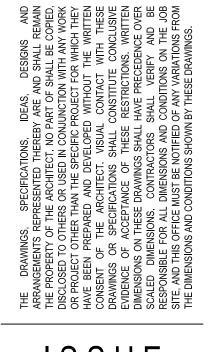


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APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



ISS	UΕ
<u>     100% SD SET </u>	08.30.2021
<u>     100% DD SET </u>	11.08.2021
$\triangle$	

# SITE PLAN

 $\bigcirc$ SCALE: 1" = 20'-0" PROJECT # 21028

Ν

DRAWN BY	
CHECKED BY	RDL
FILE NAME	
PLOT DATE	March 8, 2022
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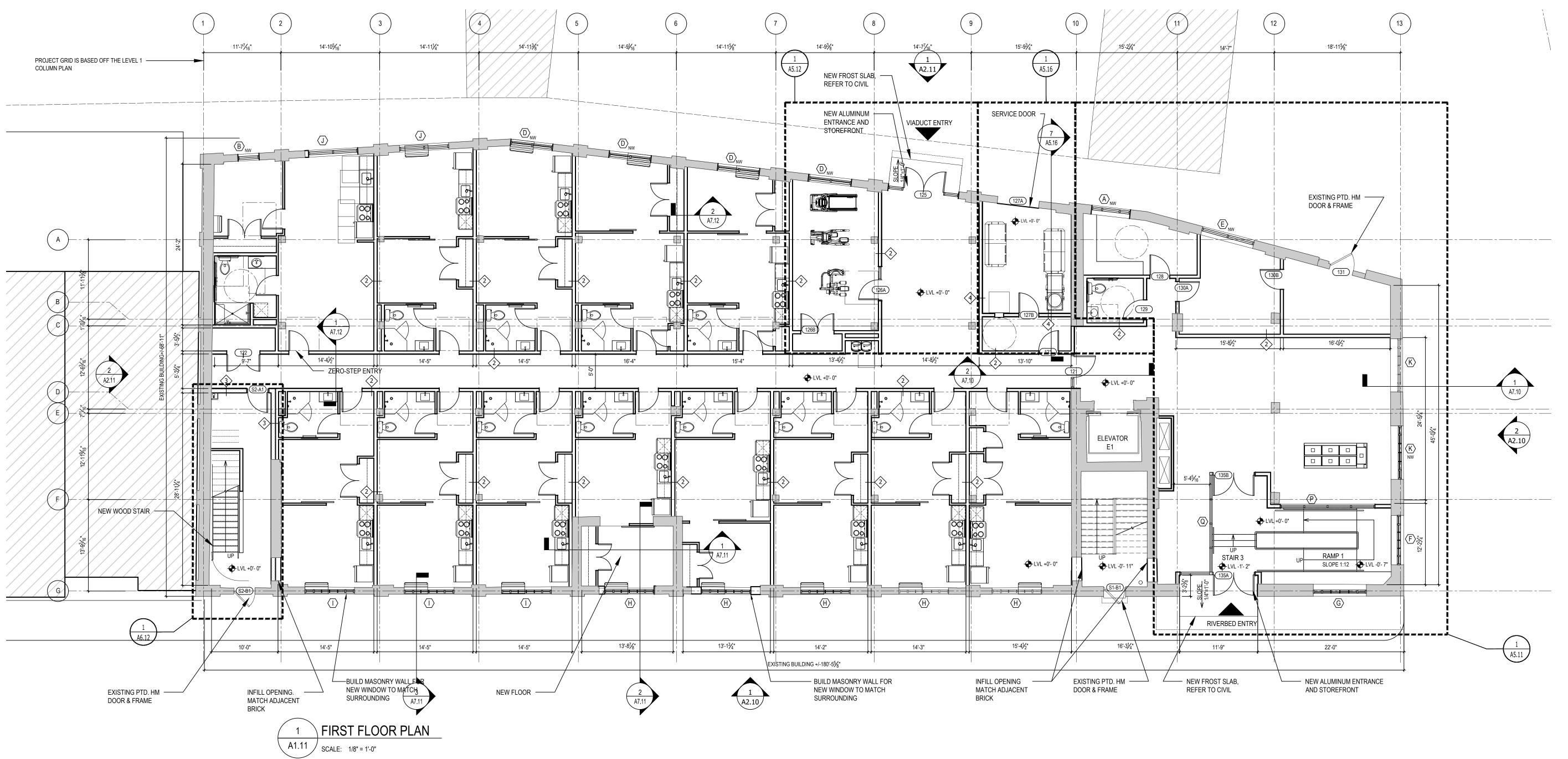


### SITE DATA:

ZONING USE DIST.	LLR: LIMITED RE WITH URBAN F	
AREA DISTRICT:	K (6x LOT AREA)	
HEIGHT DISTRICT:	5 (250 FT. MAX)	
PROPOSED USE	RESIDENTIAL, OI	FFICE
ACREAGE	+/- 0.253 ACRES	(11,020 SF)
PROPOSED UNITS	70 UNITS	
TOTAL FL AREA	+/- 50,984 GSF	
BUILDING FOOTPRINT	+/- 11,379 SF (100	0% COVERAGE)
ON-SITE PARKING	1 PER DWELLING U 1 PER 500 SF OFFIC 75% REDUCTION PEI .25 X 73 NONE PROVIDED, VA	E = 3 SPACES R UF OVERLAY = 19 SPACES REQ'D
	,	
OFF-STREET PARKING	,	23 SPACES

GENERAL NOTES:

REFER TO CIVIL DRAWINGS FOR COMPLETE SITE INFORMATION INCLUDING PARKING LAYOUTS, PAVEMENT TYPES, SIGNAGE AND SITE DETAILS.



- TYPICAL 2X4 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X4 WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL CHASE WALL: 5/8" GYPSUM BOARD ON ONE SIDE OF 2X WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL 2X6 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X6 WOOD STUD FRAMING SPACED 16" O.C.
- 2 TYPICAL UNIT DEMISING / CORRIDOR WALL: (1 HOUR RATING-UL DESIGN NO. 311. MIN STC 56) 5/8" TYPE "X" GYPSUM BOARD EACH SIDE OF 2X6 WOOD STUD FRAMING @ 16" O.C. W/ 1/2" RESILIENT CHANNELS ON ONE SIDE W/ MIN. 3 1/2" BATT INSULATION.
- 3 TYPICAL STAIR WALL: 8" NOMINAL CONCRETE BLOCK WALL WITH REINFORCING • 5/8" GYP. BD. OVER 7/8" METAL FURRING @ 24" O.C. AT FINISHED INTERIOR SPACES
- 4 <u>2-HOUR RATED WALL:</u> (2 HOUR RATING-UL DESIGN NO. 334, STC 62) (2) LAYERS 5/8" TYPE 'X' GYPSUM WALL BOARD ON EACH SIDE OF 2X6 WOOD STUD FRAMING @ 16" O.C.
- 5 <u>TYPICAL 2X6 EXTERIOR WALL:</u> (1-HR RATING PER UL DESIGN #U356) EXTERIOR FINISH OVER WEATHER BARRIER ON 7/16" SHEATHING ON 2X6 STUDS @ 16" O.C W/ R-21 BATT INSULATION & VAPOR BARRIER ON INSIDE FACE AND 5/8" GYPSUM BOARD ON INTERIOR SIDE.

### GENERAL NOTES:

- ARE DIMENSIONED TO OPENINGS AT BRICK.
- AND PLUMBING LOCATIONS.
- FABRICATING MILLWORK.
- SIZES

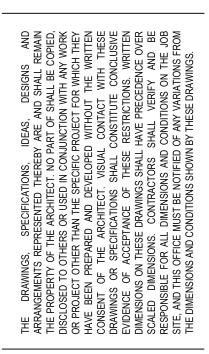


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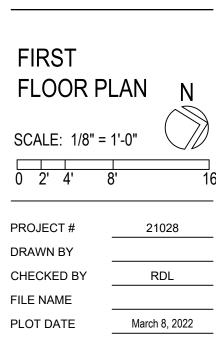


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#### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



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$\triangle$	100% SD SET		08.30.202
$\triangle$	100% DD SET		11.08.2021
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A. WALLS ARE DIMENSIONED TO FACE OF STUD. WINDOWS AND DOORS

B. NEW GYPCRETE LAYER IS DATUM +/-0'-0" FOR ALL FLOOR PLANS

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL

D. PROVIDE 5/8" TYPE-X GYPSUM WALLBOARD ON RATED WALLS. PROVIDE 5/8" GYPSUM WALL BOARD ON ALL INTERIOR PARTITION WALLS. PROVIDE MOISTURE RESISTANT GYP. BOARD IN ALL BATHROOMS ON WET WALLS.

VERIFY ROUGH-IN DIMENSIONS FOR ALL APPLIANCES & PLUMBING FIXTURES PRIOR TO FRAMING PARTITIONS, ORDERING CABINETRY OR

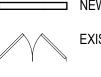
F. REFER TO ELEVATIONS AND WINDOW SCHEDULE FOR WINDOW TYPES &

G. REFER TO UNIT PLANS FOR INTERIOR WALL TYPES IN UNITS.

H. PROJECT GRID IS BASED OFF THE LEVEL 3 COLUMN PLAN.

### LEGEND:

EXISTING CONSTRUCTION TO REMAIN



NEW DOOR

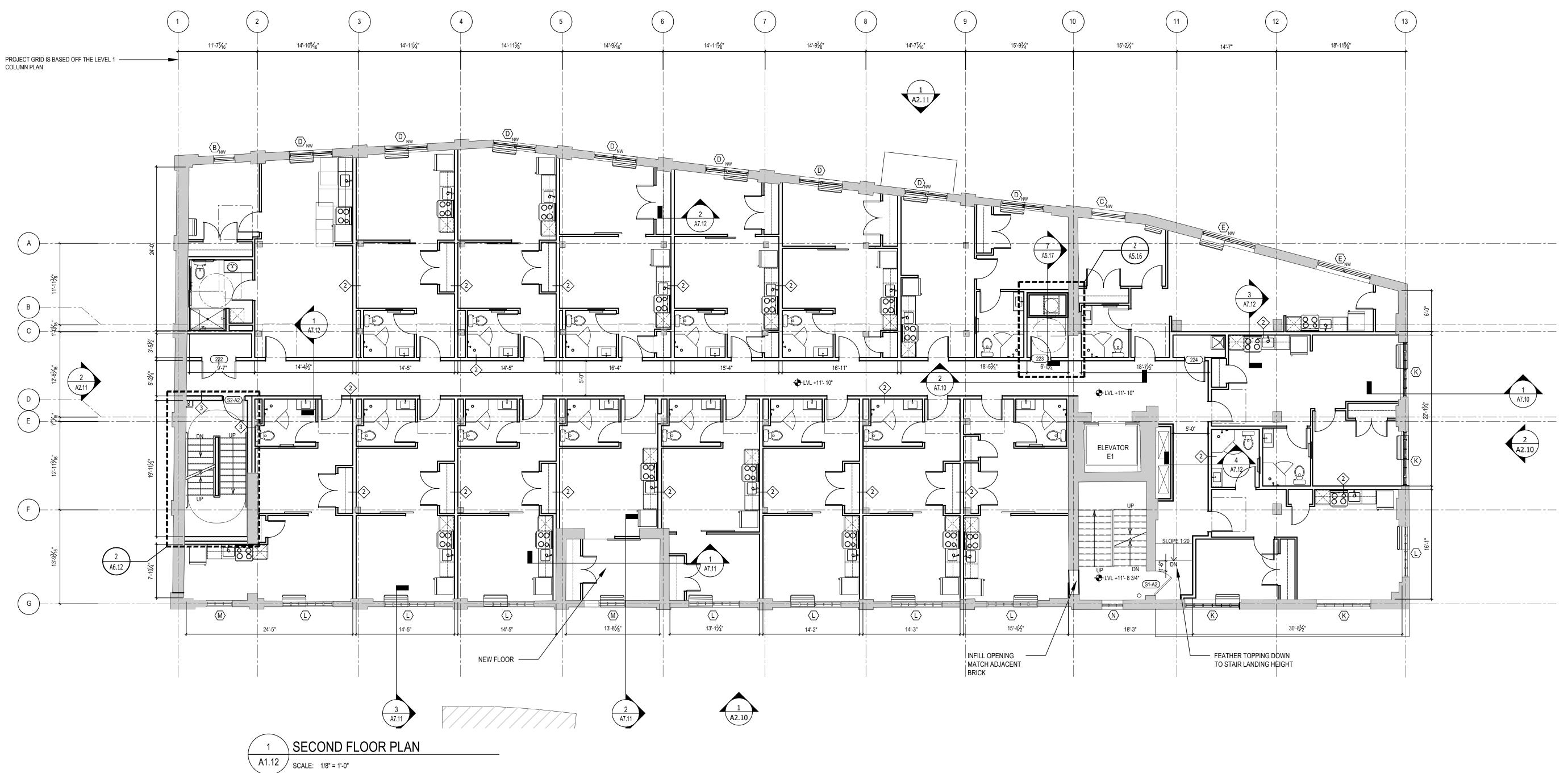
WALL TYPE, SEE SHEET A9.30 FOR PARTITION SCHEDULE

(100) DOOR NUMBER (SEE SHEET A9.10 FOR DOOR SCHED.) NEW WINDOW OPENING (REFER TO ELEVATIONS AND SHEET A9.20 FOR WINDOW TYPES AND DETAILS) ---- DEMOLITION

NEW CONSTRUCTION EXISTING DOOR

 $\langle A \rangle$ 

NW



- TYPICAL 2X4 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X4 WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL CHASE WALL: 5/8" GYPSUM BOARD ON ONE SIDE OF 2X WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL 2X6 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X6 WOOD STUD FRAMING SPACED 16" O.C.
- 2 TYPICAL UNIT DEMISING / CORRIDOR WALL: (1 HOUR RATING-UL DESIGN NO. 311. MIN STC 56) 5/8" TYPE "X" GYPSUM BOARD EACH SIDE OF 2X6 WOOD STUD FRAMING @ 16" O.C. W/ 1/2" RESILIENT CHANNELS ON ONE SIDE W/ MIN. 3 1/2" BATT INSULATION.
- 3 TYPICAL STAIR WALL: 8" NOMINAL CONCRETE BLOCK WALL WITH REINFORCING • 5/8" GYP. BD. OVER 7/8" METAL FURRING @ 24" O.C. AT FINISHED INTERIOR SPACES
- 4 <u>2-HOUR RATED WALL:</u> (2 HOUR RATING-UL DESIGN NO. 334, STC 62) (2) LAYERS 5/8" TYPE 'X' GYPSUM WALL BOARD ON EACH SIDE OF 2X6 WOOD STUD FRAMING @ 16" O.C.
- 5 <u>TYPICAL 2X6 EXTERIOR WALL:</u> (1-HR RATING PER UL DESIGN #U356) EXTERIOR FINISH OVER WEATHER BARRIER ON 7/16" SHEATHING ON 2X6 STUDS @ 16" O.C W/ R-21 BATT INSULATION & VAPOR BARRIER ON INSIDE FACE AND 5/8" GYPSUM BOARD ON INTERIOR SIDE.

### GENERAL NOTES:

- ARE DIMENSIONED TO OPENINGS AT BRICK.
- AND PLUMBING LOCATIONS.

SIZES

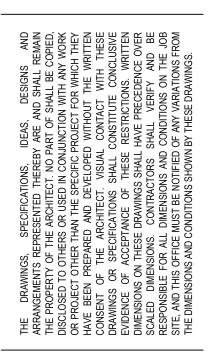


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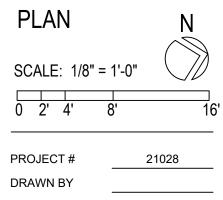
#### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



# ISSUE

$\triangle$	100% SD SET	08.30.2021
$\triangle$	100% DD SET	11.08.2021
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# SECOND FLOOR



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A. WALLS ARE DIMENSIONED TO FACE OF STUD. WINDOWS AND DOORS

B. NEW GYPCRETE LAYER IS DATUM +/-0'-0" FOR ALL FLOOR PLANS

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL

D. PROVIDE 5/8" TYPE-X GYPSUM WALLBOARD ON RATED WALLS. PROVIDE 5/8" GYPSUM WALL BOARD ON ALL INTERIOR PARTITION WALLS. PROVIDE MOISTURE RESISTANT GYP. BOARD IN ALL BATHROOMS ON WET WALLS.

VERIFY ROUGH-IN DIMENSIONS FOR ALL APPLIANCES & PLUMBING FIXTURES PRIOR TO FRAMING PARTITIONS, ORDERING CABINETRY OR FABRICATING MILLWORK.

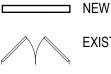
F. REFER TO ELEVATIONS AND WINDOW SCHEDULE FOR WINDOW TYPES &

G. REFER TO UNIT PLANS FOR INTERIOR WALL TYPES IN UNITS.

H. PROJECT GRID IS BASED OFF THE LEVEL 3 COLUMN PLAN.

### LEGEND:

EXISTING CONSTRUCTION TO REMAIN



NEW DOOR

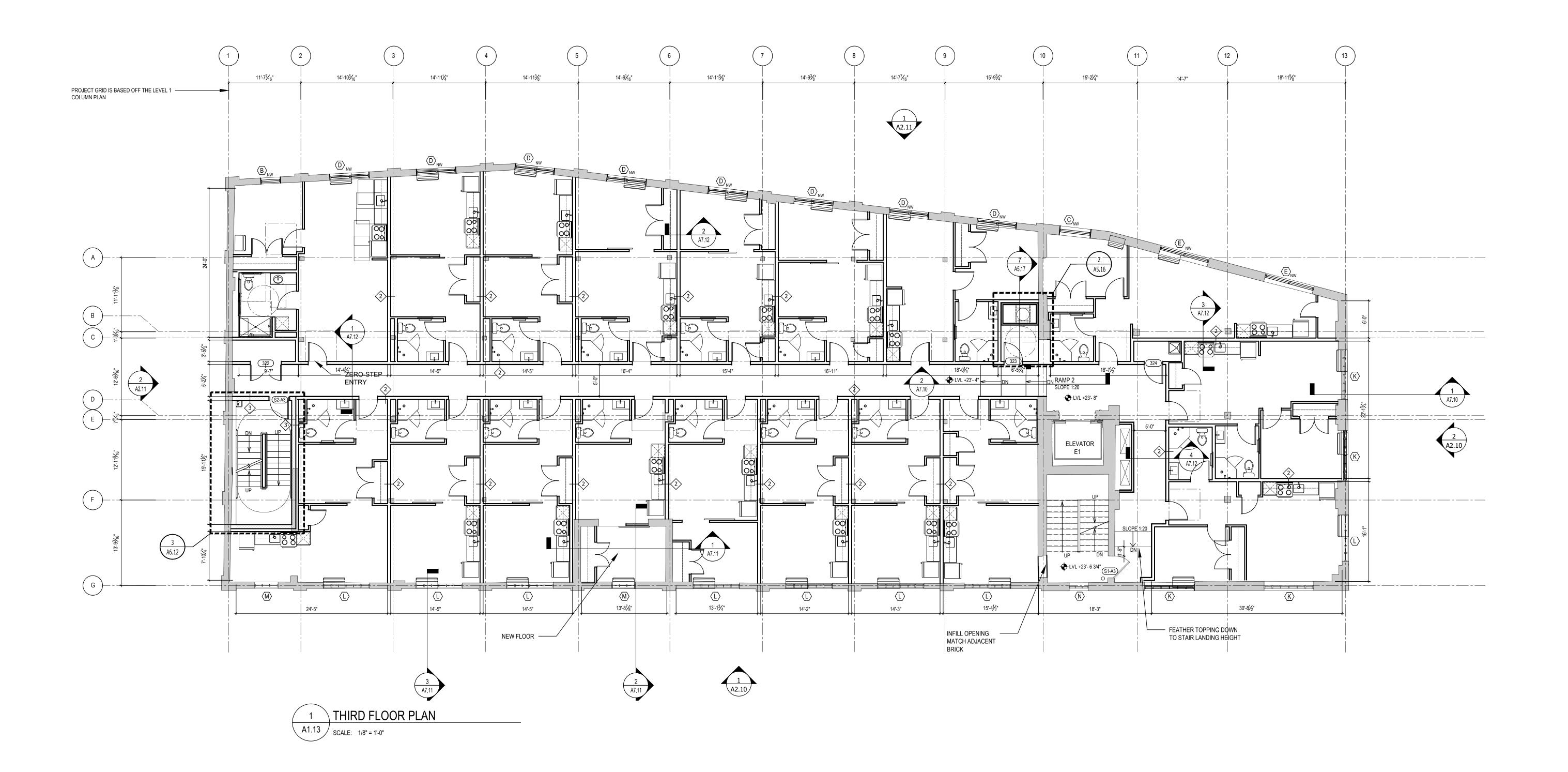
WALL TYPE, SEE SHEET A9.30 FOR PARTITION SCHEDULE

DOOR NUMBER (SEE SHEET A9.10 FOR DOOR SCHED.) NEW WINDOW OPENING (REFER TO ELEVATIONS AND SHEET A9.20 FOR WINDOW TYPES AND DETAILS) ---- DEMOLITION

NEW CONSTRUCTION EXISTING DOOR

 $\langle A \rangle$ 

(100) NW



- TYPICAL 2X4 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X4 WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL CHASE WALL: 5/8" GYPSUM BOARD ON ONE SIDE OF 2X WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL 2X6 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X6 WOOD STUD FRAMING SPACED 16" O.C.
- 2 TYPICAL UNIT DEMISING / CORRIDOR WALL: (1 HOUR RATING-UL DESIGN NO. 311. MIN STC 56) 5/8" TYPE "X" GYPSUM BOARD EACH SIDE OF 2X6 WOOD STUD FRAMING @ 16" O.C. W/ 1/2" RESILIENT CHANNELS ON ONE SIDE W/ MIN. 3 1/2" BATT INSULATION.
- 3 TYPICAL STAIR WALL: 8" NOMINAL CONCRETE BLOCK WALL WITH REINFORCING • 5/8" GYP. BD. OVER 7/8" METAL FURRING @ 24" O.C. AT FINISHED INTERIOR SPACES
- 4 <u>2-HOUR RATED WALL:</u> (2 HOUR RATING-UL DESIGN NO. 334, STC 62) (2) LAYERS 5/8" TYPE 'X' GYPSUM WALL BOARD ON EACH SIDE OF 2X6 WOOD STUD FRAMING @ 16" O.C.
- 5 <u>TYPICAL 2X6 EXTERIOR WALL:</u> (1-HR RATING PER UL DESIGN #U356) EXTERIOR FINISH OVER WEATHER BARRIER ON 7/16" SHEATHING ON 2X6 STUDS @ 16" O.C W/ R-21 BATT INSULATION & VAPOR BARRIER ON INSIDE FACE AND 5/8" GYPSUM BOARD ON INTERIOR SIDE.

- GENERAL NOTES:
- ARE DIMENSIONED TO OPENINGS AT BRICK.
- AND PLUMBING LOCATIONS.
- FABRICATING MILLWORK.
- SIZES

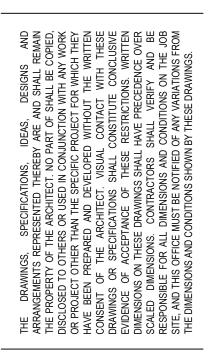


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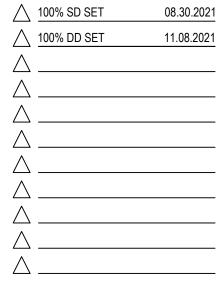


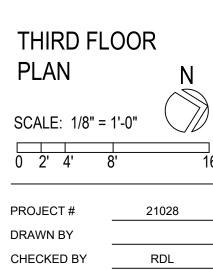
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#### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



# ISSUE





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A. WALLS ARE DIMENSIONED TO FACE OF STUD. WINDOWS AND DOORS

B. NEW GYPCRETE LAYER IS DATUM +/-0'-0" FOR ALL FLOOR PLANS

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL

D. PROVIDE 5/8" TYPE-X GYPSUM WALLBOARD ON RATED WALLS. PROVIDE 5/8" GYPSUM WALL BOARD ON ALL INTERIOR PARTITION WALLS. PROVIDE MOISTURE RESISTANT GYP. BOARD IN ALL BATHROOMS ON WET WALLS.

VERIFY ROUGH-IN DIMENSIONS FOR ALL APPLIANCES & PLUMBING FIXTURES PRIOR TO FRAMING PARTITIONS, ORDERING CABINETRY OR

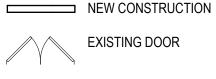
F. REFER TO ELEVATIONS AND WINDOW SCHEDULE FOR WINDOW TYPES &

G. REFER TO UNIT PLANS FOR INTERIOR WALL TYPES IN UNITS.

H. PROJECT GRID IS BASED OFF THE LEVEL 3 COLUMN PLAN.

### LEGEND:

EXISTING CONSTRUCTION TO REMAIN

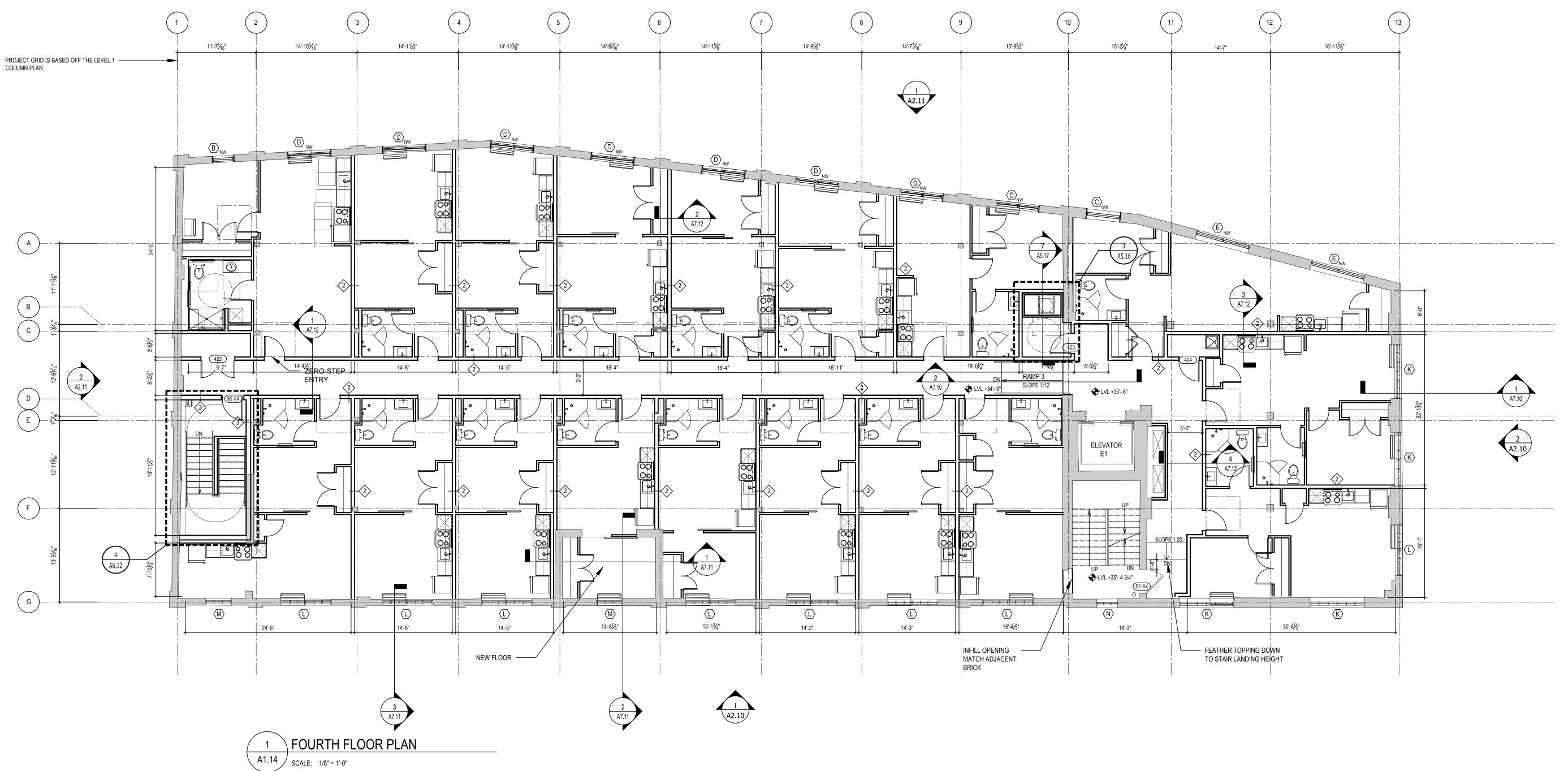


NEW DOOR

NW

 $\langle A \rangle$ WALL TYPE, SEE SHEET A9.30 FOR PARTITION SCHEDULE

(100) DOOR NUMBER (SEE SHEET A9.10 FOR DOOR SCHED.) NEW WINDOW OPENING (REFER TO ELEVATIONS AND SHEET A9.20 FOR WINDOW TYPES AND DETAILS) ---- DEMOLITION



- TYPICAL 2X4 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X4 WOOD STUD FRAMING SPACED 16" O.C.
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### GENERAL NOTES:

- ARE DIMENSIONED TO OPENINGS AT BRICK.
- AND PLUMBING LOCATIONS.
- FABRICATING MILLWORK.
  - SIZES

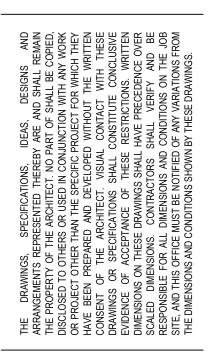


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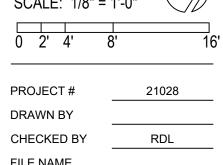
#### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



## ISSUE

$\triangle$	100% SD SET	08.30.2021
$\triangle$	100% DD SET	11.08.2021
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# FOURTH FLOOR PLAN SCALE: 1/8" = 1'-0"



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A. WALLS ARE DIMENSIONED TO FACE OF STUD. WINDOWS AND DOORS

B. NEW GYPCRETE LAYER IS DATUM +/-0'-0" FOR ALL FLOOR PLANS

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL

D. PROVIDE 5/8" TYPE-X GYPSUM WALLBOARD ON RATED WALLS. PROVIDE 5/8" GYPSUM WALL BOARD ON ALL INTERIOR PARTITION WALLS. PROVIDE MOISTURE RESISTANT GYP. BOARD IN ALL BATHROOMS ON WET WALLS.

VERIFY ROUGH-IN DIMENSIONS FOR ALL APPLIANCES & PLUMBING FIXTURES PRIOR TO FRAMING PARTITIONS, ORDERING CABINETRY OR

F. REFER TO ELEVATIONS AND WINDOW SCHEDULE FOR WINDOW TYPES &

G. REFER TO UNIT PLANS FOR INTERIOR WALL TYPES IN UNITS.

H. PROJECT GRID IS BASED OFF THE LEVEL 3 COLUMN PLAN.

### LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION EXISTING DOOR



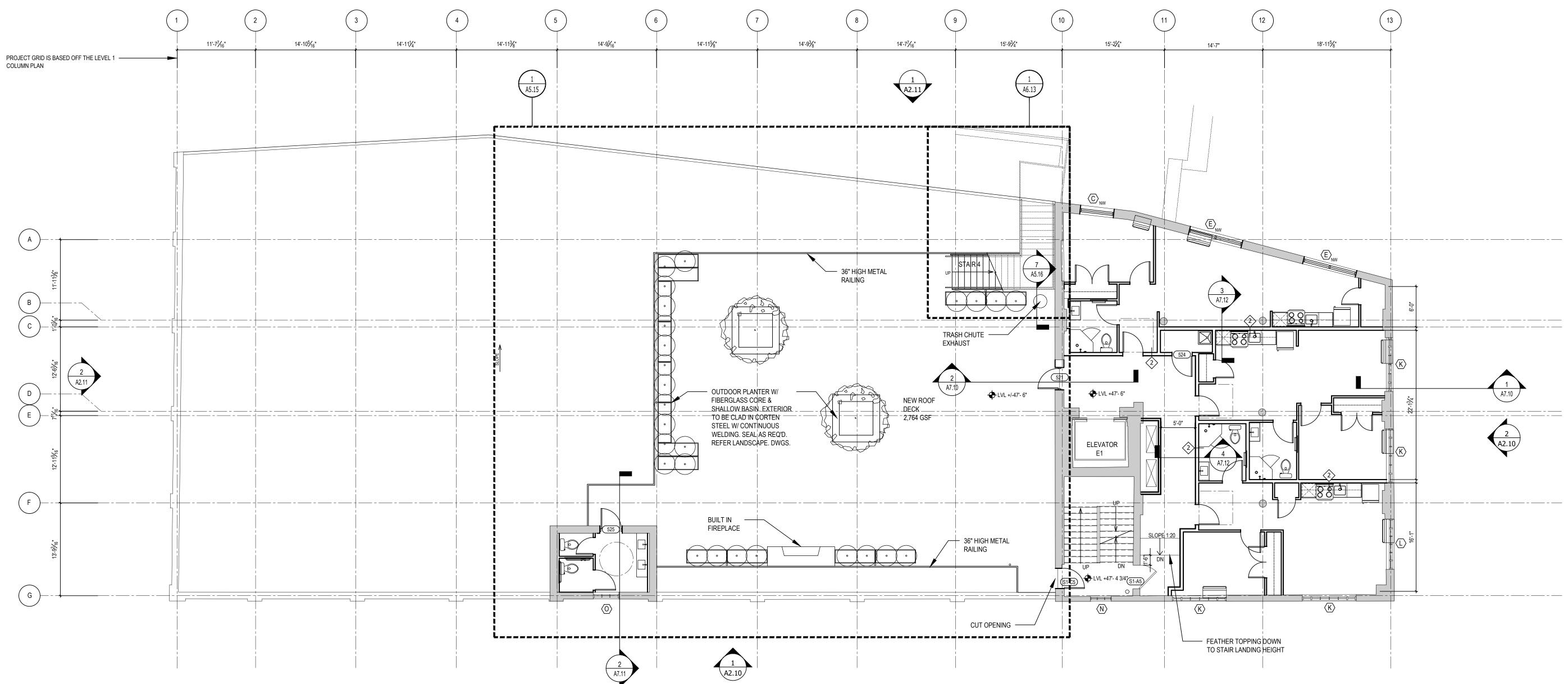
 $\langle A \rangle$ WALL TYPE, SEE SHEET A9.30 FOR PARTITION SCHEDULE

> DOOR NUMBER (SEE SHEET A9.10 FOR DOOR SCHED.) NEW WINDOW OPENING (REFER TO ELEVATIONS AND SHEET A9.20 FOR WINDOW TYPES AND DETAILS)

NEW DOOR

(100)

NW ---- DEMOLITION





- TYPICAL 2X4 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X4 WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL CHASE WALL: 5/8" GYPSUM BOARD ON ONE SIDE OF 2X WOOD STUD FRAMING SPACED 16" O.C.
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### GENERAL NOTES:

- ARE DIMENSIONED TO OPENINGS AT BRICK.
- AND PLUMBING LOCATIONS.
- FABRICATING MILLWORK.
- SIZES

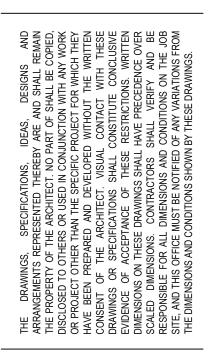


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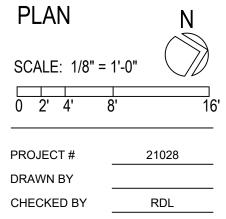
#### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



# ISSUE

$\triangle$	100% SD SET	08.30.2021
$\triangle$	100% DD SET	11.08.2021
$\triangle$		

# **FIFTH FLOOR**



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A. WALLS ARE DIMENSIONED TO FACE OF STUD. WINDOWS AND DOORS

B. NEW GYPCRETE LAYER IS DATUM +/-0'-0" FOR ALL FLOOR PLANS

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL

D. PROVIDE 5/8" TYPE-X GYPSUM WALLBOARD ON RATED WALLS. PROVIDE 5/8" GYPSUM WALL BOARD ON ALL INTERIOR PARTITION WALLS. PROVIDE MOISTURE RESISTANT GYP. BOARD IN ALL BATHROOMS ON WET WALLS.

VERIFY ROUGH-IN DIMENSIONS FOR ALL APPLIANCES & PLUMBING FIXTURES PRIOR TO FRAMING PARTITIONS, ORDERING CABINETRY OR

F. REFER TO ELEVATIONS AND WINDOW SCHEDULE FOR WINDOW TYPES &

G. REFER TO UNIT PLANS FOR INTERIOR WALL TYPES IN UNITS.

H. PROJECT GRID IS BASED OFF THE LEVEL 3 COLUMN PLAN.

### LEGEND:

EXISTING CONSTRUCTION TO REMAIN



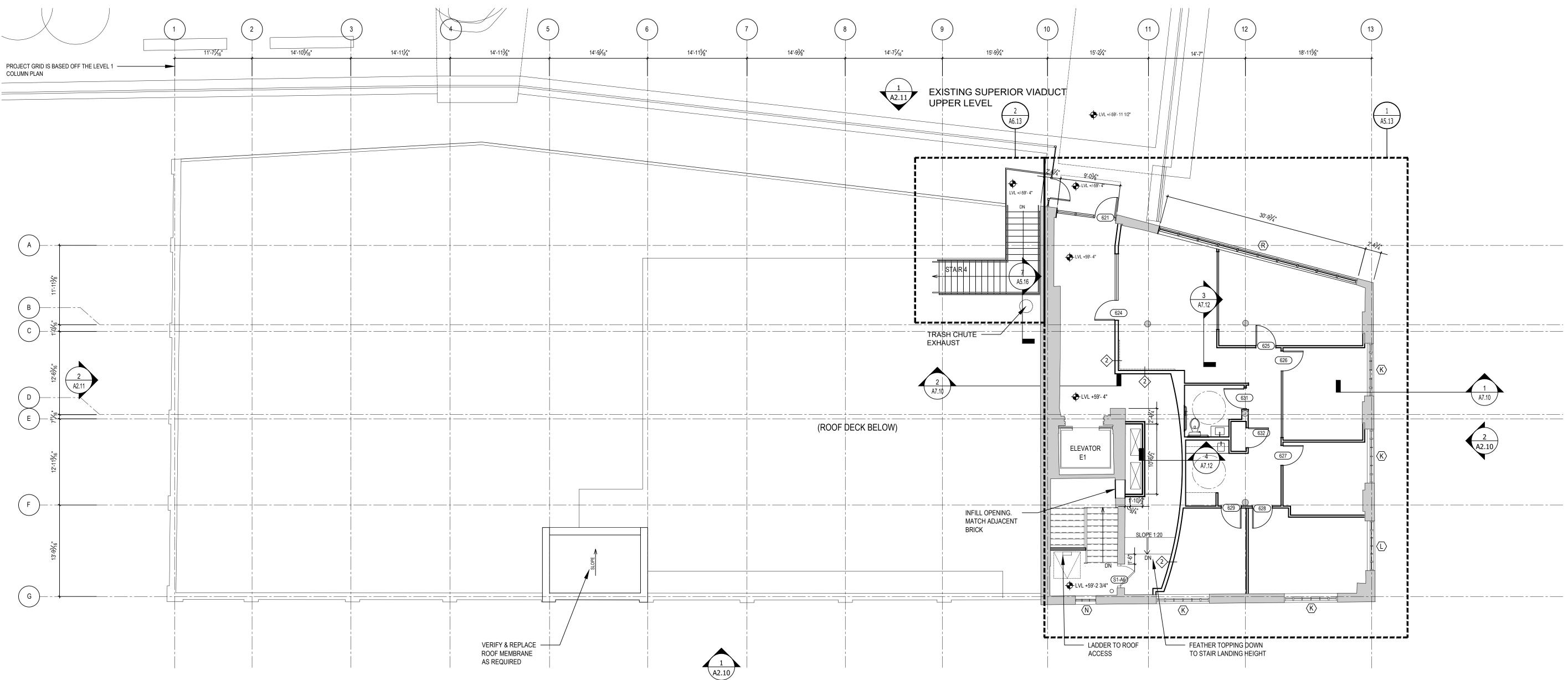
EXISTING DOOR

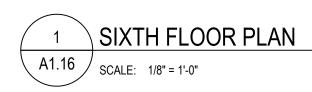


NW

 $\langle A \rangle$ WALL TYPE, SEE SHEET A9.30 FOR PARTITION SCHEDULE

(100) DOOR NUMBER (SEE SHEET A9.10 FOR DOOR SCHED.) NEW WINDOW OPENING (REFER TO ELEVATIONS AND SHEET A9.20 FOR WINDOW TYPES AND DETAILS) ---- DEMOLITION





- TA TYPICAL 2X4 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X4 WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL CHASE WALL: 5/8" GYPSUM BOARD ON ONE SIDE OF 2X WOOD STUD FRAMING SPACED 16" O.C.
- TYPICAL 2X6 INTERIOR WALL: 5/8" GYPSUM BOARD ON EACH SIDE OF 2X6 WOOD STUD FRAMING SPACED 16" O.C.
- 2 TYPICAL UNIT DEMISING / CORRIDOR WALL: (1 HOUR RATING-UL DESIGN NO. 311. MIN STC 56) 5/8" TYPE "X" GYPSUM BOARD EACH SIDE OF 2X6 WOOD STUD FRAMING @ 16" O.C. W/ 1/2" RESILIENT CHANNELS ON ONE SIDE W/ MIN. 3 1/2" BATT INSULATION.
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- 5 <u>TYPICAL 2X6 EXTERIOR WALL:</u> (1-HR RATING PER UL DESIGN #U356) EXTERIOR FINISH OVER WEATHER BARRIER ON 7/16" SHEATHING ON 2X6 STUDS @ 16" O.C W/ R-21 BATT INSULATION & VAPOR BARRIER ON INSIDE FACE AND 5/8" GYPSUM BOARD ON INTERIOR SIDE.

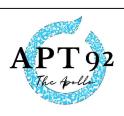
### GENERAL NOTES:

- AND PLUMBING LOCATIONS.

- SIZES

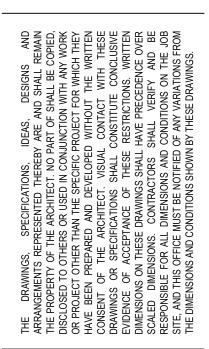


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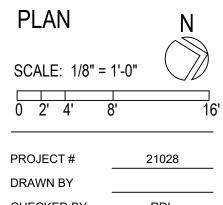
#### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH





$\overline{\bigtriangleup}$	100% DD SET	11.08.2021
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### SIXTH FLOOR



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A. WALLS ARE DIMENSIONED TO FACE OF STUD. WINDOWS AND DOORS ARE DIMENSIONED TO OPENINGS AT BRICK.

B. NEW GYPCRETE LAYER IS DATUM +/-0'-0" FOR ALL FLOOR PLANS

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL

D. PROVIDE 5/8" TYPE-X GYPSUM WALLBOARD ON RATED WALLS. PROVIDE 5/8" GYPSUM WALL BOARD ON ALL INTERIOR PARTITION WALLS. PROVIDE MOISTURE RESISTANT GYP. BOARD IN ALL BATHROOMS ON WET WALLS.

VERIFY ROUGH-IN DIMENSIONS FOR ALL APPLIANCES & PLUMBING FIXTURES PRIOR TO FRAMING PARTITIONS, ORDERING CABINETRY OR FABRICATING MILLWORK.

F. REFER TO ELEVATIONS AND WINDOW SCHEDULE FOR WINDOW TYPES &

G. REFER TO UNIT PLANS FOR INTERIOR WALL TYPES IN UNITS.

H. PROJECT GRID IS BASED OFF THE LEVEL 3 COLUMN PLAN.

### LEGEND:

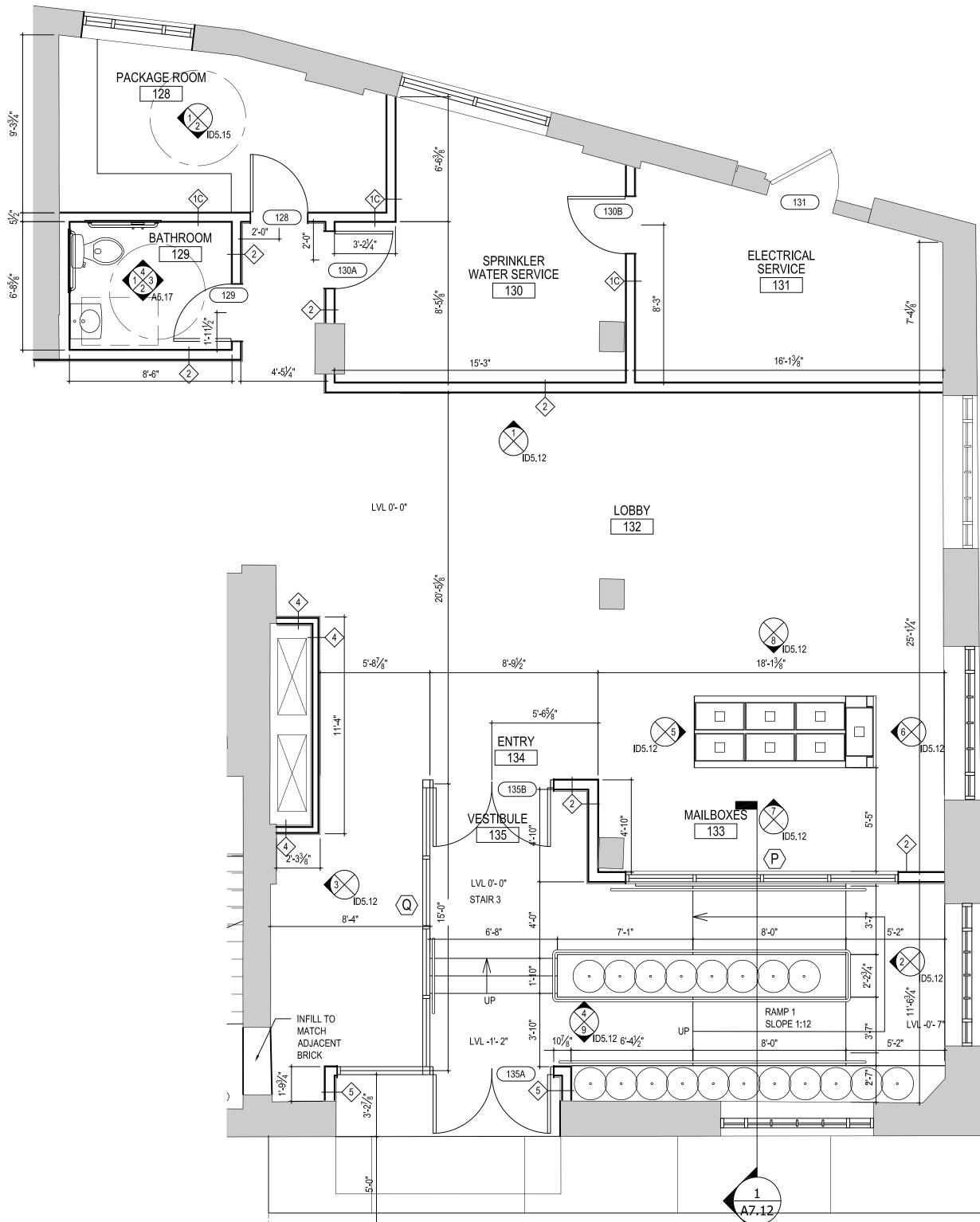
- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION EXISTING DOOR



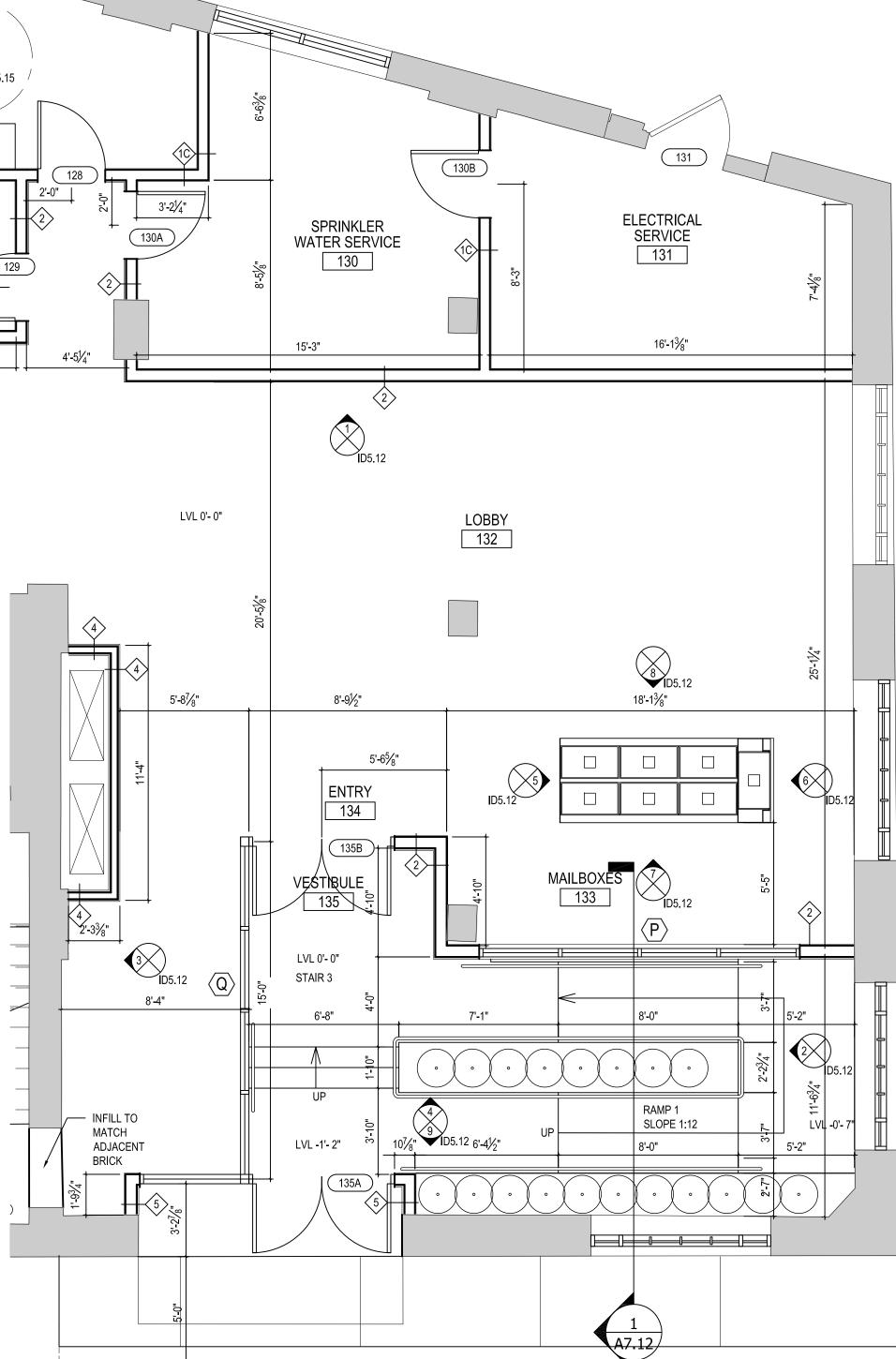
NW

 $\langle A \rangle$ WALL TYPE, SEE SHEET A9.30 FOR PARTITION SCHEDULE

(100) DOOR NUMBER (SEE SHEET A9.10 FOR DOOR SCHED.) NEW WINDOW OPENING (REFER TO ELEVATIONS AND SHEET A9.20 FOR WINDOW TYPES AND DETAILS) ---- DEMOLITION



L\_\_\_\_\_



# 1 ENLARGED PLAN A5.11. SCALE: 1/4" = 1'-0"

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### GENERAL NOTES:

A. WALLS ARE DIMENSIONED TO FACE OF STUD. WINDOWS AND DOORS ARE DIMENSIONED TO OPENINGS AT BRICK.

- B. NEW GYPCRETE LAYER IS DATUM +/-0'-0" FOR ALL FLOOR PLANS
- C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR MECHANICAL AND PLUMBING LOCATIONS.
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- E. VERIFY ROUGH-IN DIMENSIONS FOR ALL APPLIANCES & PLUMBING FIXTURES PRIOR TO FRAMING PARTITIONS, ORDERING CABINETRY OR FABRICATING MILLWORK.
- F. REFER TO ELEVATIONS AND WINDOW SCHEDULE FOR WINDOW TYPES & SIZES
- G. REFER TO UNIT PLANS FOR INTERIOR WALL TYPES IN UNITS.
- H. PROJECT GRID IS BASED OFF THE LEVEL 3 COLUMN PLAN.

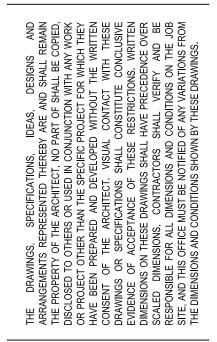


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APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



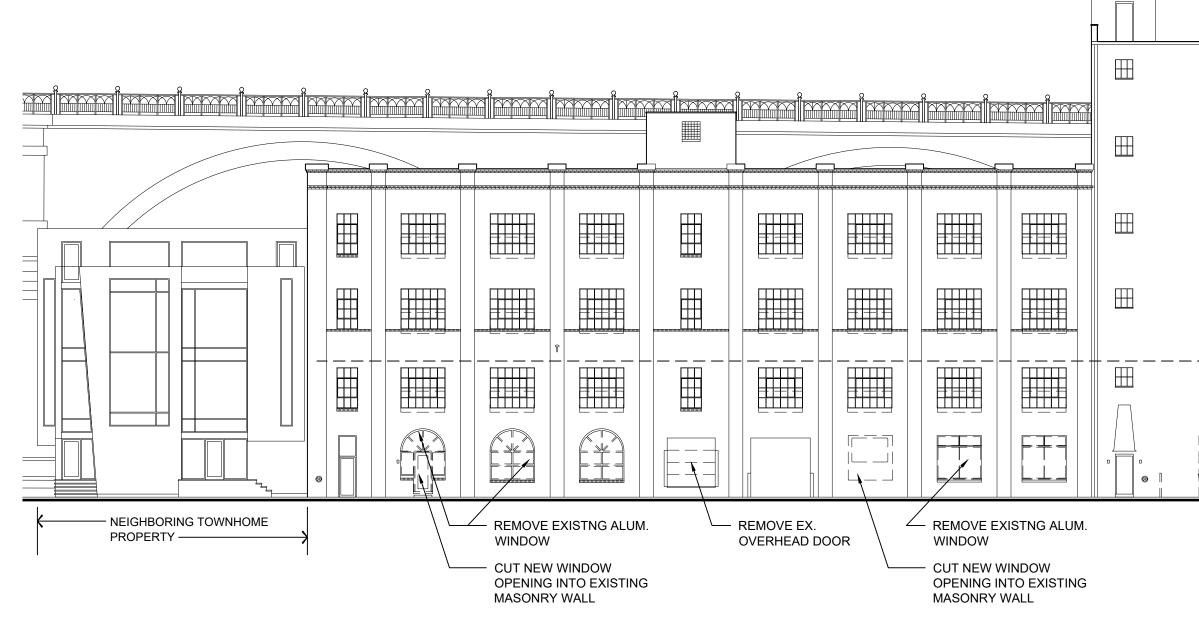
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### ENLARGED PLANS

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

PROJECT #	21028
DRAWN BY	
CHECKED BY	RDL
FILE NAME	
PLOT DATE	March 10, 2022
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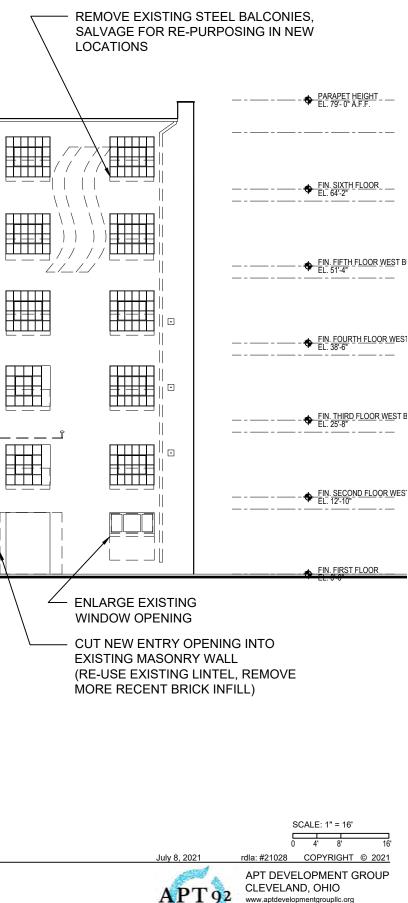




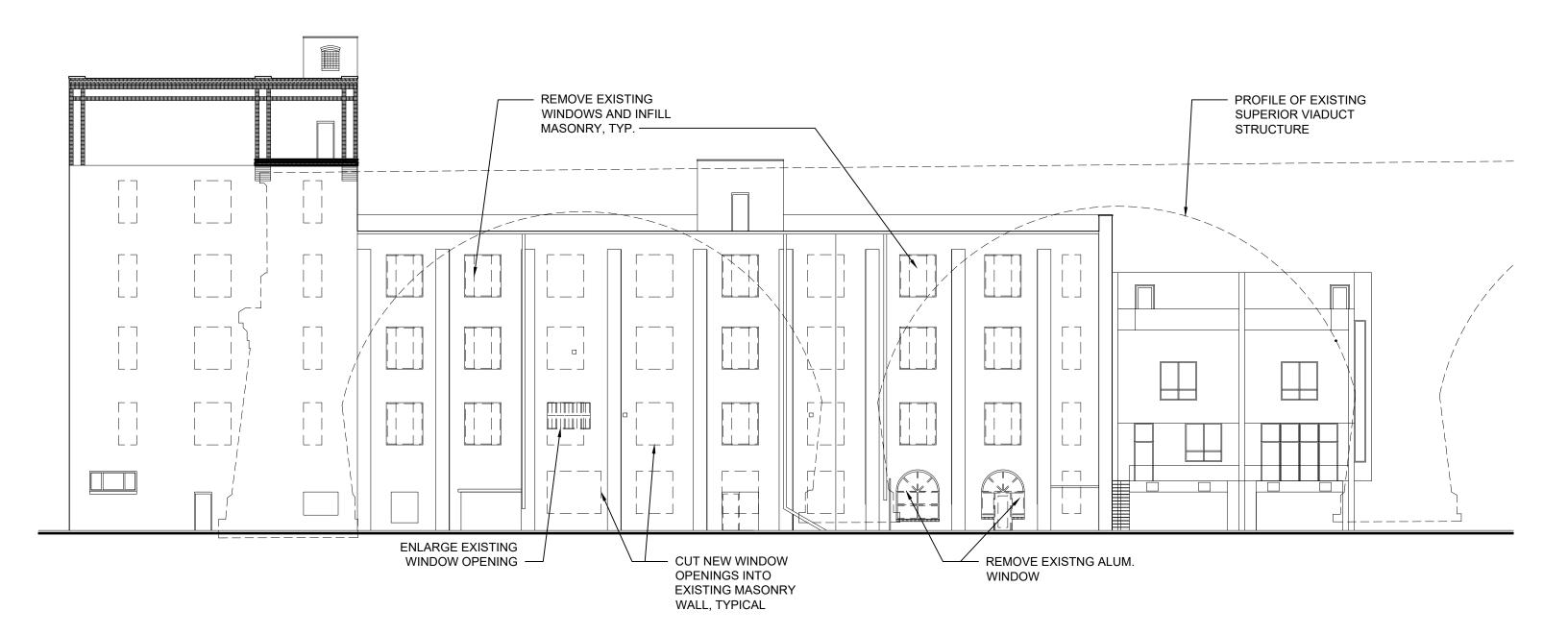
A2.10 EAST ELEVATION - RIVERBED STREET - EXISTING CONDITIONS

**RDL ARCHITECTS** 16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 T: 216-752-4300 F: 216-752-4301 ARCHITECTS www.rdlarchitects.com

### **APOLLO APARTMENTS 1250 RIVERBED STREET** CLEVELAND, OHIO



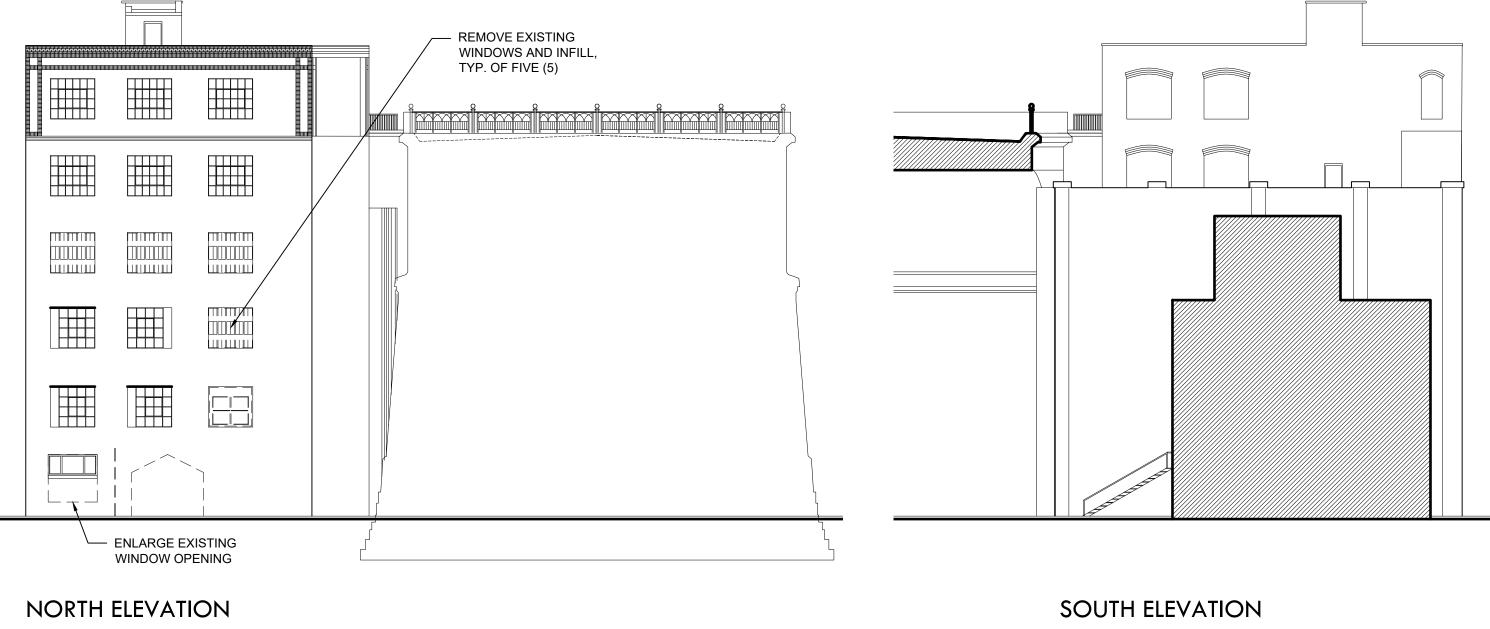
CLEVELAND, OHIO www.aptdevelopmentgrouplic.org



A2.20 WEST ELEVATION - EXISTING CONDITIONS

**RDL ARCHITECTS** 16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 T: 216-752-4300 F: 216-752-4301 ARCHITECTS www.rdlarchitects.com

### **APOLLO APARTMENTS 1250 RIVERBED STREET** CLEVELAND, OHIO



A2.30 NORTH AND SOUTH ELEVATIONS - EXISTING CONDITIONS

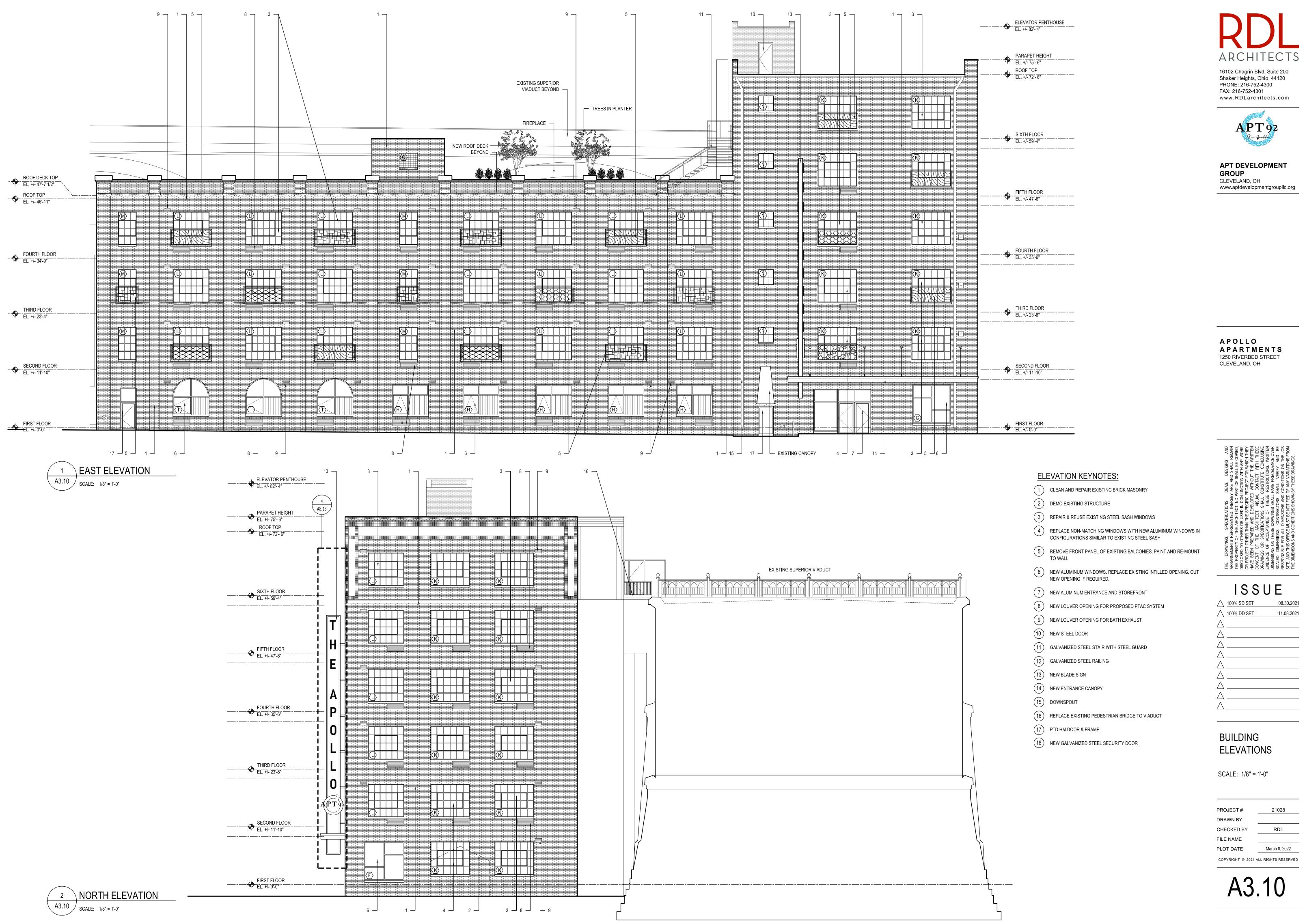
**RDL ARCHITECTS** 16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 T: 216-752-4300 F: 216-752-4301 ARCHITECTS www.rdlarchitects.com

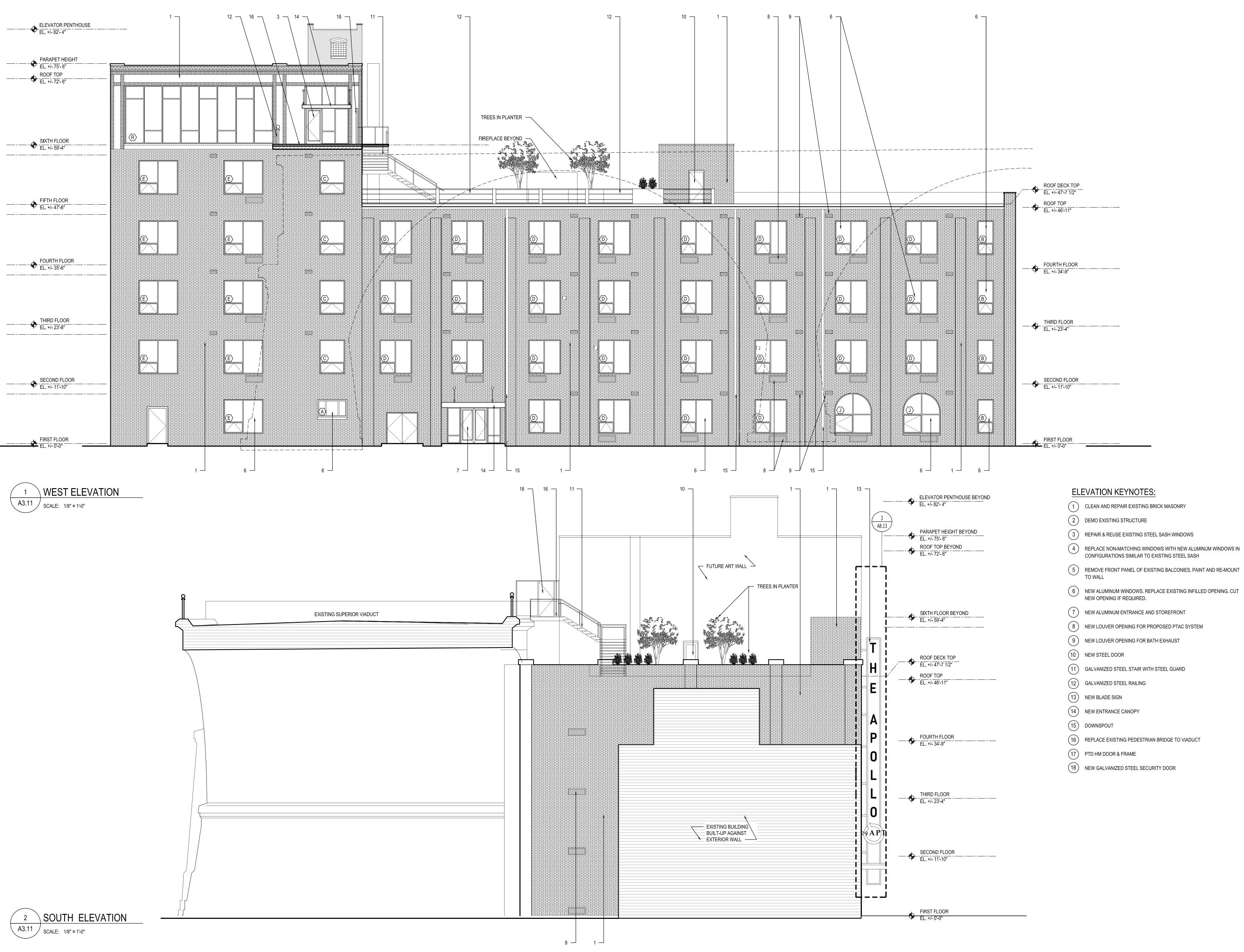
**APOLLO APARTMENTS 1250 RIVERBED STREET** CLEVELAND, OHIO

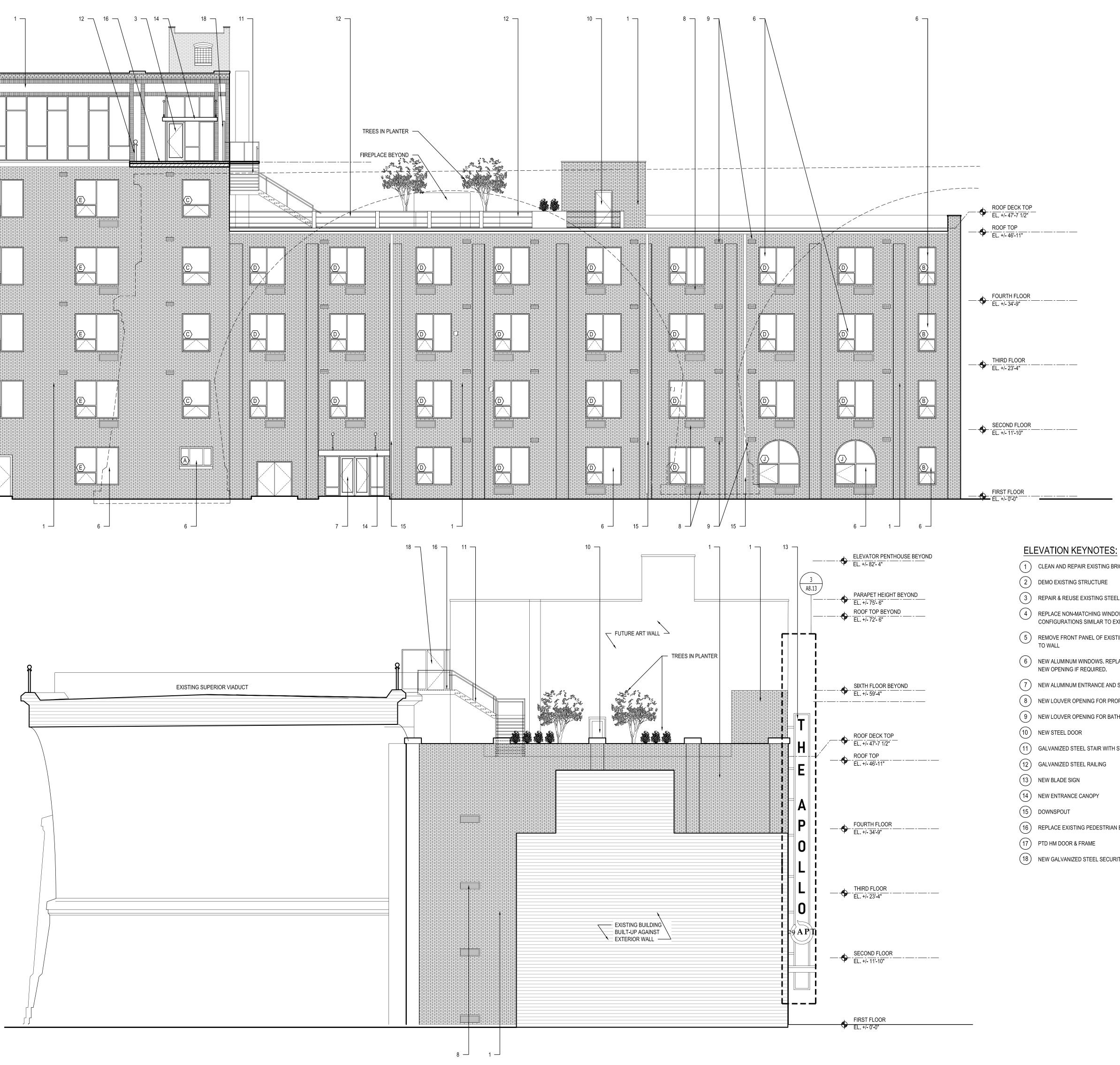
SCALE: 1" = 16' 4' 8 dla: #21028 COPYRIGHT © 2021

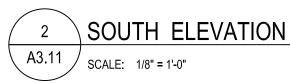


APT DEVELOPMENT GROUP CLEVELAND, OHIO www.aptdevelopmentgrouplic.org









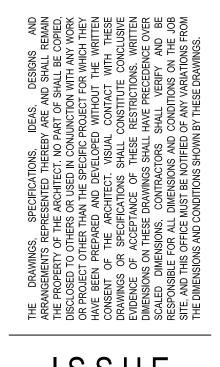


FAX: 216-752-4301 www.RDLarchitects.com



APT DEVELOPMENT GROUP CLEVELAND, OH www.aptdevelopmentgroupllc.org

#### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



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### BUILDING ELEVATIONS

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

ROJECT #	21028	
RAWN BY		
HECKED BY	RDL	
ILE NAME		
LOT DATE	March 8, 2022	
COPYRIGHT © 2021 ALL RIGHTS RESERVED		



- 5 REMOVE FRONT PANEL OF EXISTING BALCONIES, PAINT AND RE-MOUNT TO WALL 6 NEW ALUMINUM WINDOWS. REPLACE EXISTING INFILLED OPENING. CUT NEW OPENING IF REQUIRED. (7) NEW ALUMINUM ENTRANCE AND STOREFRONT (8) NEW LOUVER OPENING FOR PROPOSED PTAC SYSTEM

- (11) GALVANIZED STEEL STAIR WITH STEEL GUARD

- (16) REPLACE EXISTING PEDESTRIAN BRIDGE TO VIADUCT

- (9) NEW LOUVER OPENING FOR BATH EXHAUST



EAST ELEVATION - PROPOSED RENOVATIONS



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### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO

MARCH 17, 2022

APT 92

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### WEST ELEVATION



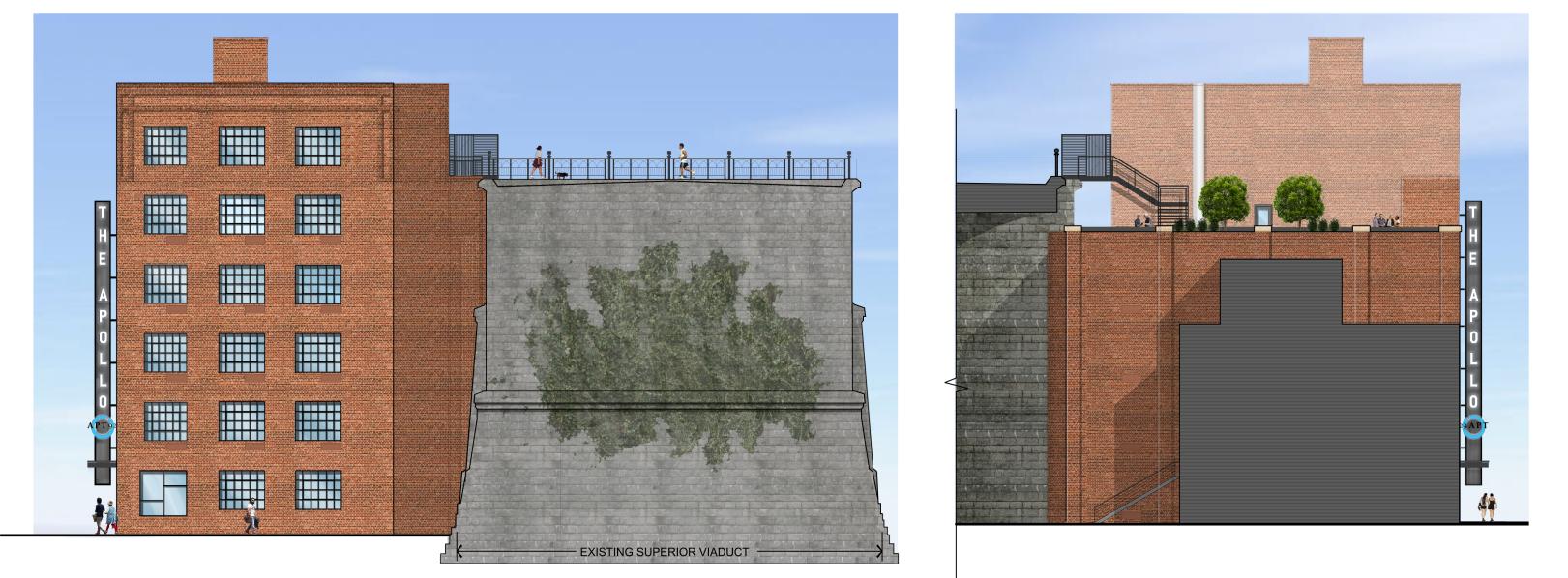
**RDL ARCHITECTS** 16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 T: 216-752-4300 F: 216-752-4301 ARCHITECTS www.rdlarchitects.com

### **APOLLO APARTMENTS 1250 RIVERBED STREET** CLEVELAND, OHIO

0 4' 8' MARCH 17, 2022 rdla: #21028 COPYRIGHT © 2021 APT DEVELOPMENT GROUP CLEVELAND, OHIO www.aptdevelopmentgroupllc.org

SCALE: 1" = 16'

APT 92 The Apollo



### NORTH ELEVATION

SOUTH ELEVATION

### NORTH AND SOUTH ELEVATIONS



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### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO

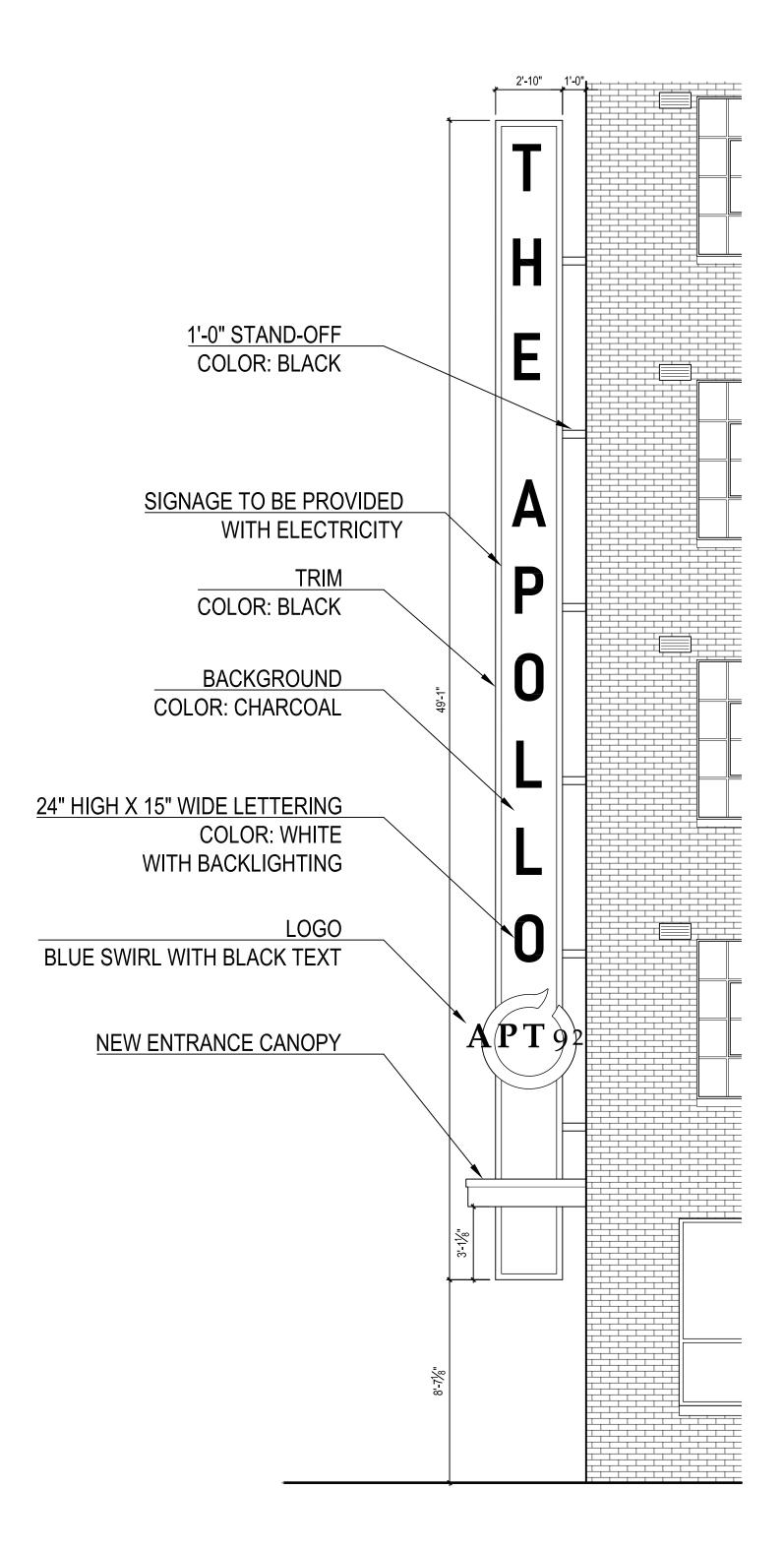
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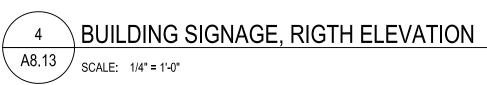
COPYRIGHT

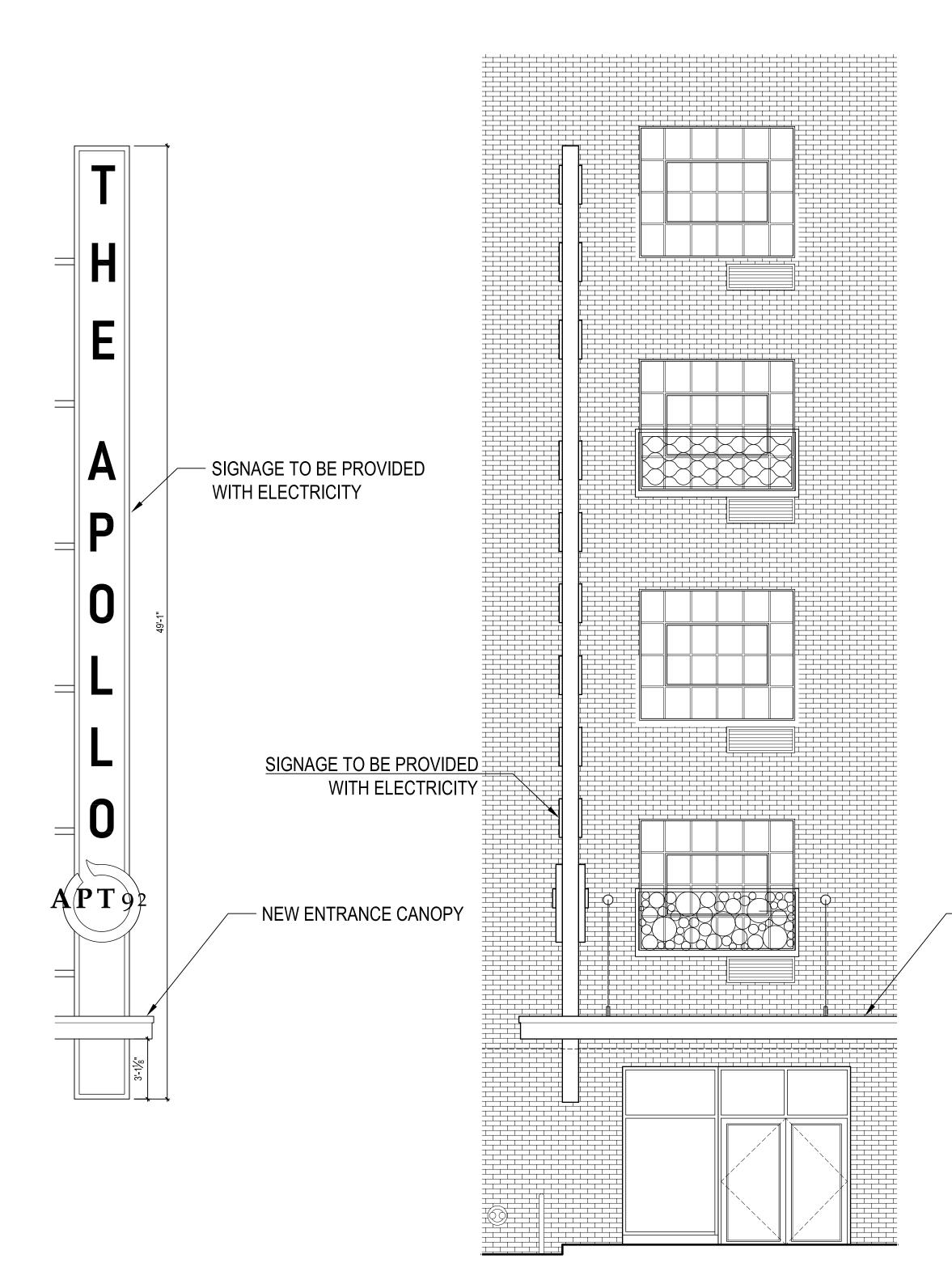


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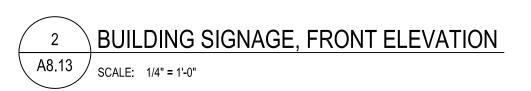
dla: #21028









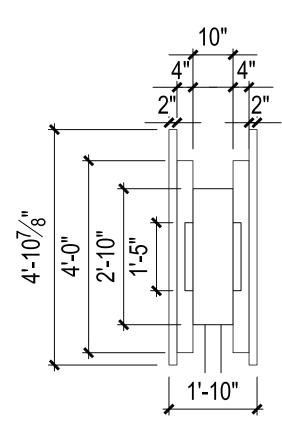


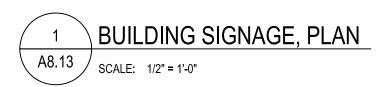


16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 PHONE: 216-752-4300 FAX: 216-752-4301 www.RDLarchitects.com



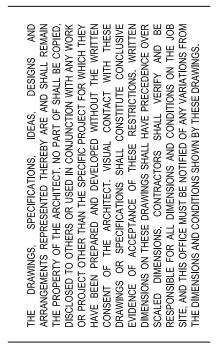
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- NEW ENTRANCE CANOPY

APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OH



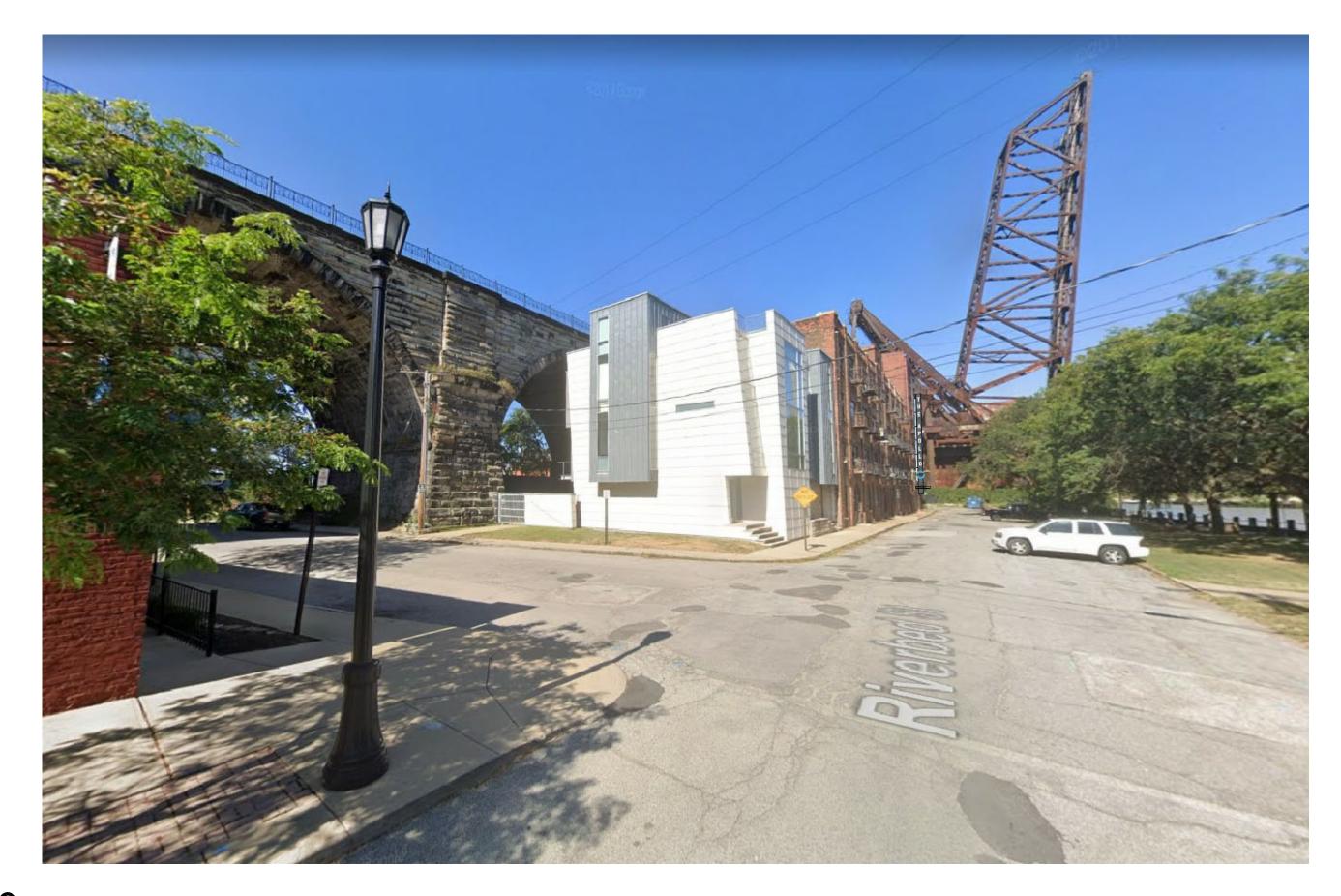
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### BUILDING SIGNAGE DETAILS

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

PROJECT #	21028
DRAWN BY	
CHECKED BY	RDL
FILE NAME	
PLOT DATE	March 9, 2022
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A2.32 PHOTOMONTAGE OF PROPOSED BLADE SIGN

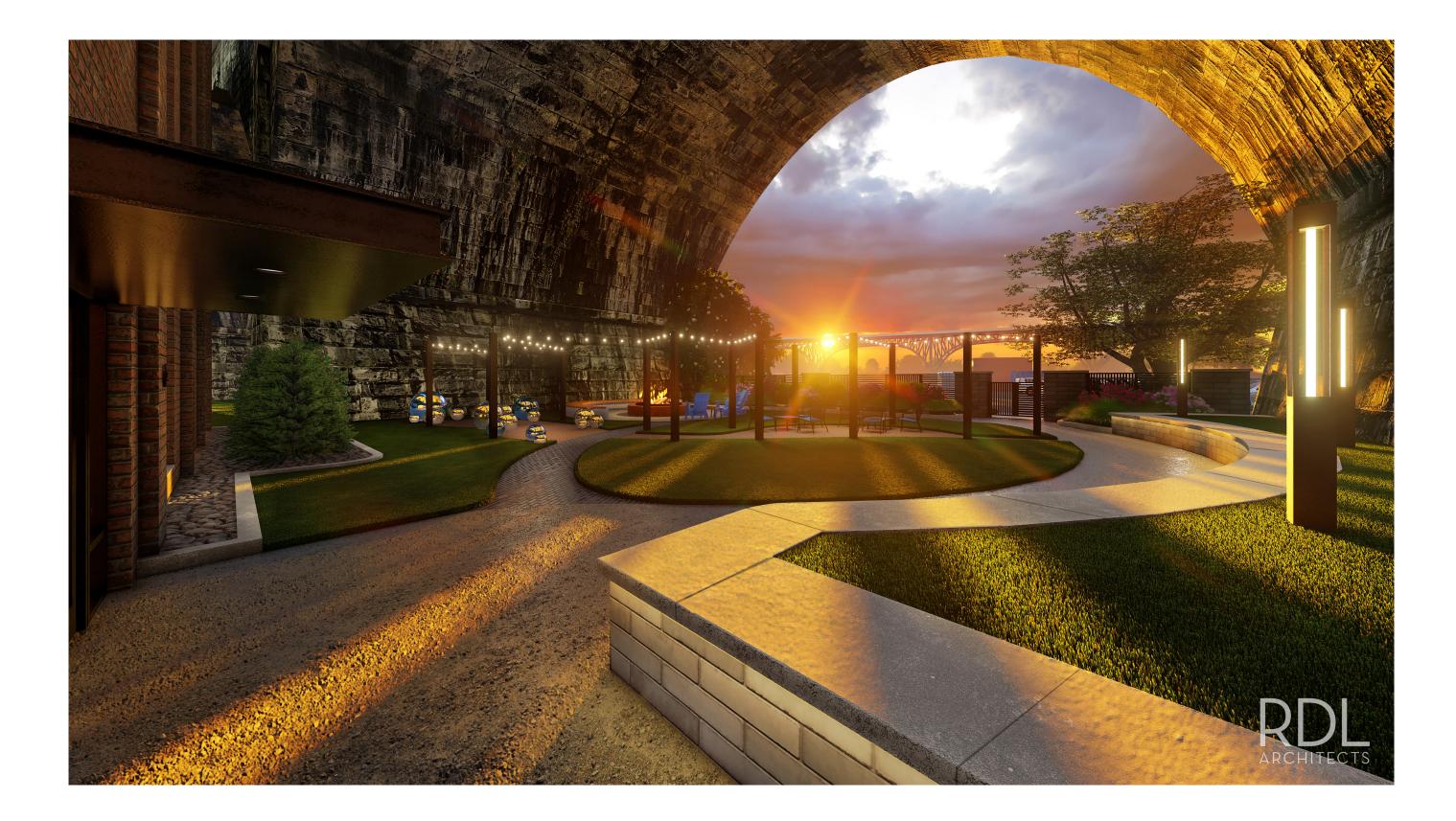
RDL ARCHITECTS ARCHITECTS RDL ARCHITECTS 16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 T: 216-752-4300 F: 216-752-4301 www.rdlarchitects.com

APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO July 30, 2021



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### VIADUCT COURTYARD VIEW 1



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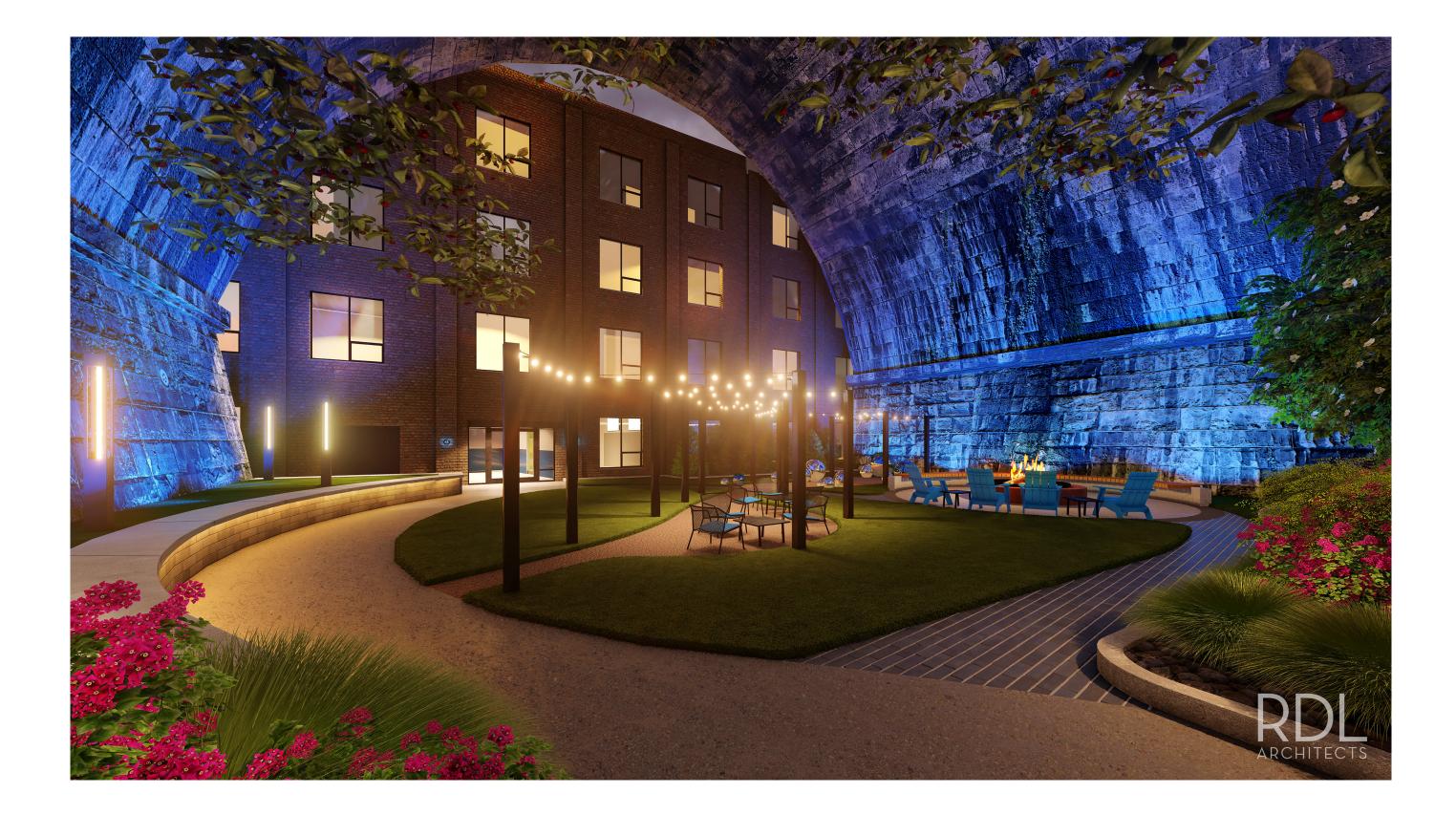
APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO

SCALE: 1" = 16' 0 4' 8'

MARCH 17, 202



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### VIADUCT COURTYARD VIEW 2



RDL ARCHITECTS ARCHITECTS ARCHITECTS RDL ARCHITECTS 16102 Chagrin Blvd. Suite 200 Shaker Heights, Ohio 44120 T: 216-752-4300 F: 216-752-4301 www.rdlarchitects.com

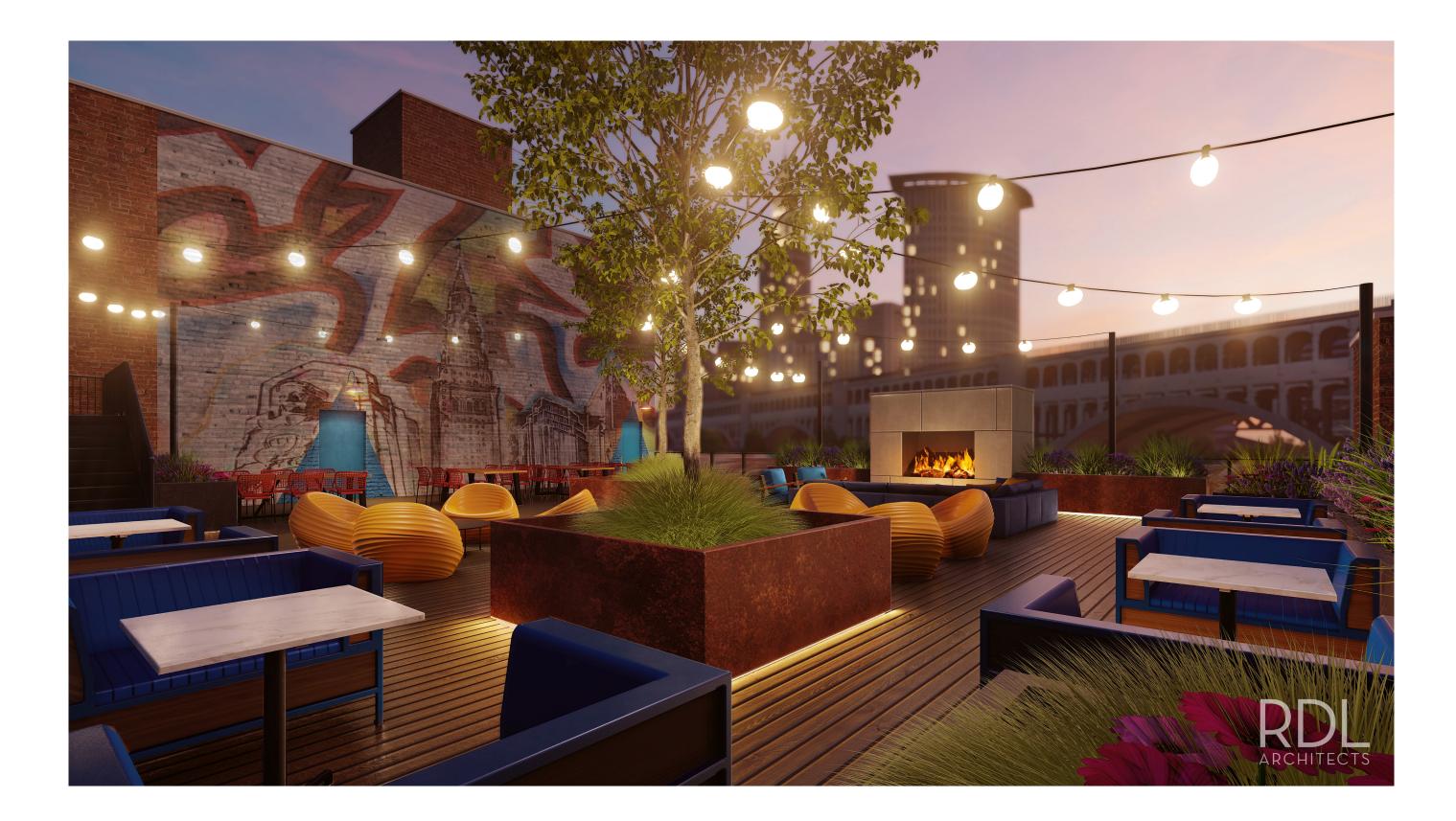
APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO

SCALE: 1" = 16' 4' 8

MARCH 17, 202



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**ROOFTOP DECK** 



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APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO

SCALE: 1" = 16' 4'

MARCH 17, 202



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### **INTERIORS - APARTMENT VIEWS**



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APOLLO APARTMENTS **1250 RIVERBED STREET** CLEVELAND, OHIO

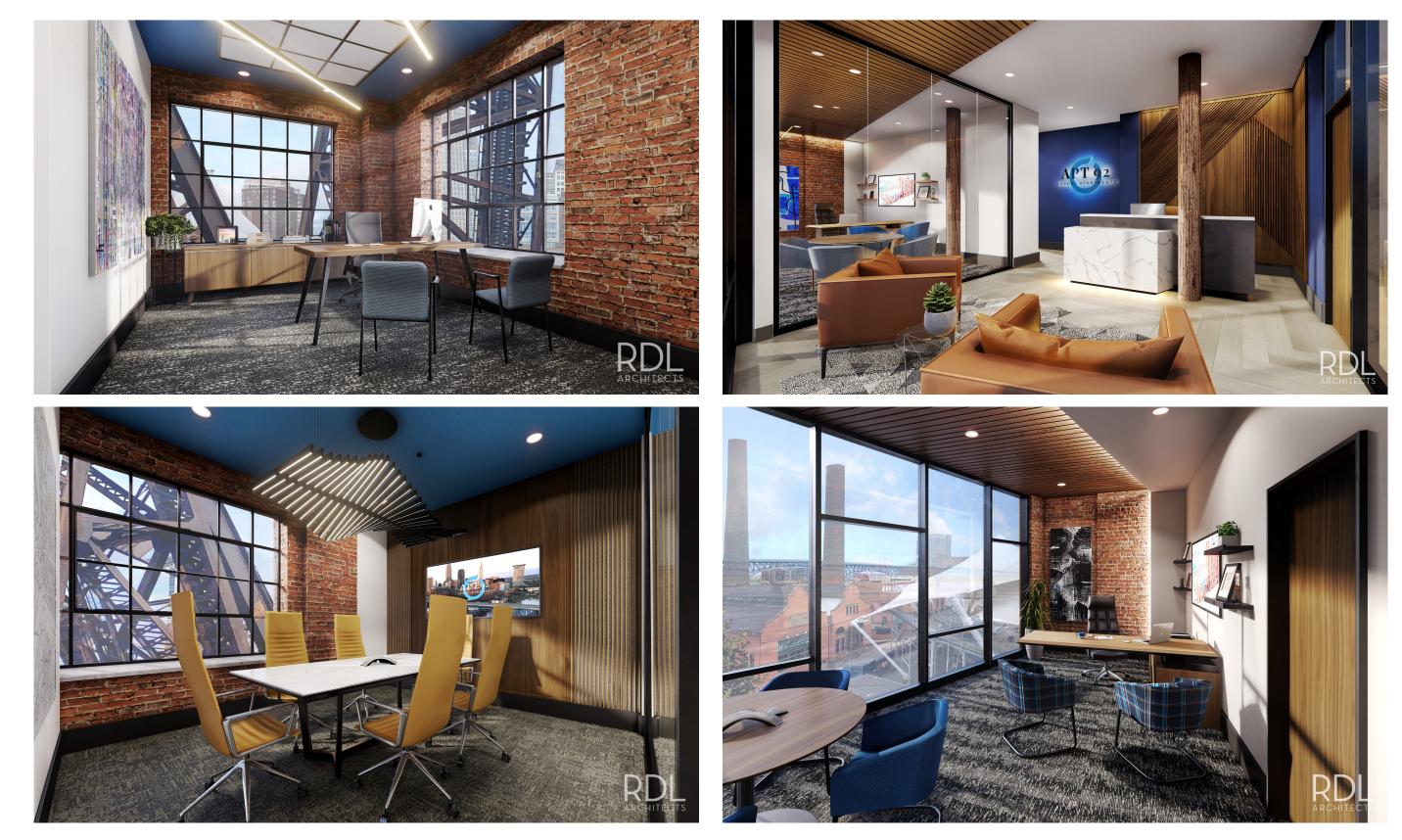


SCALE: 1" = 16' 0 4' 8'

MARCH 17, 2022



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### **INTERIORS - OFFICES VIEWS**



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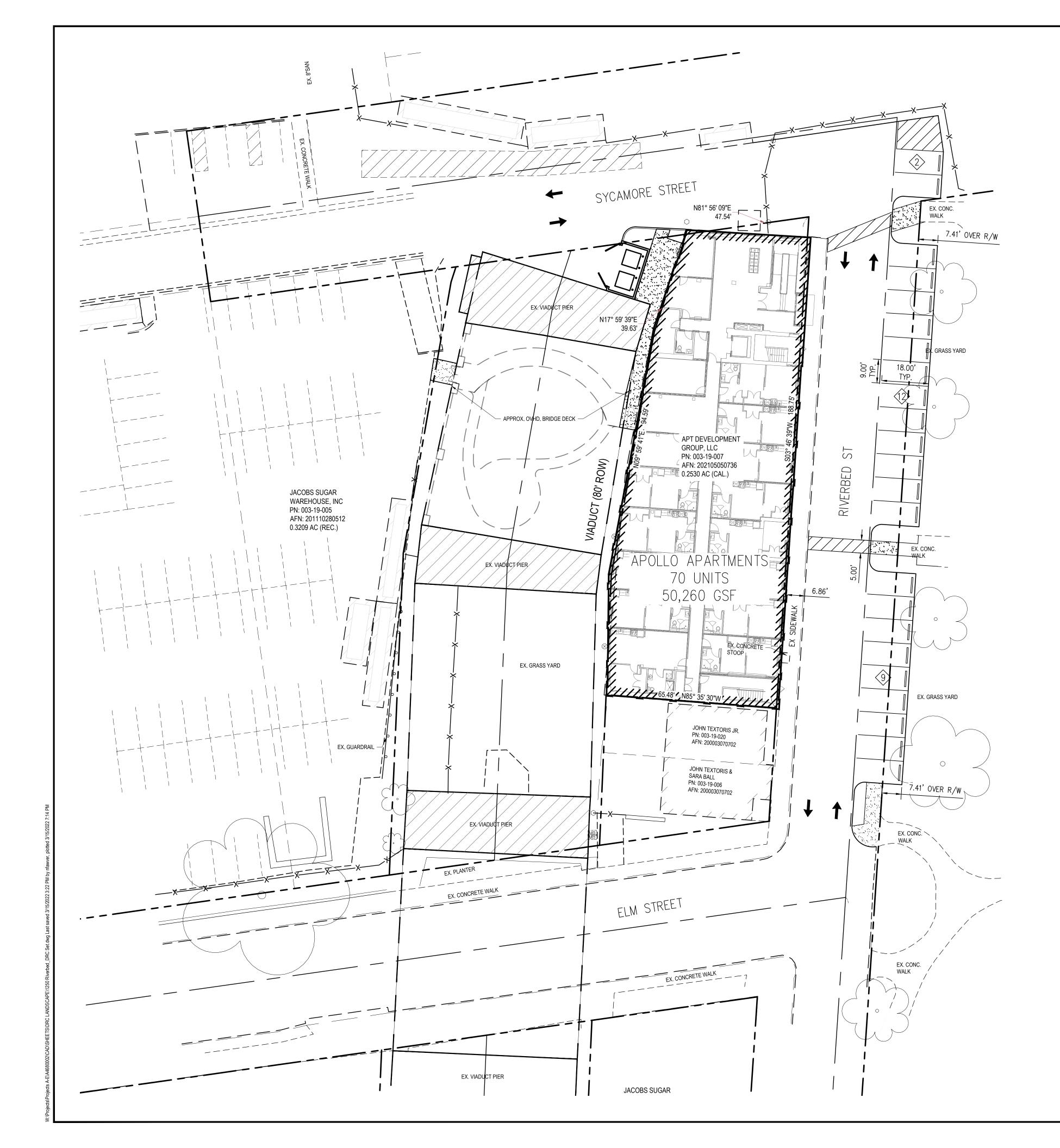
### APOLLO APARTMENTS 1250 RIVERBED STREET CLEVELAND, OHIO

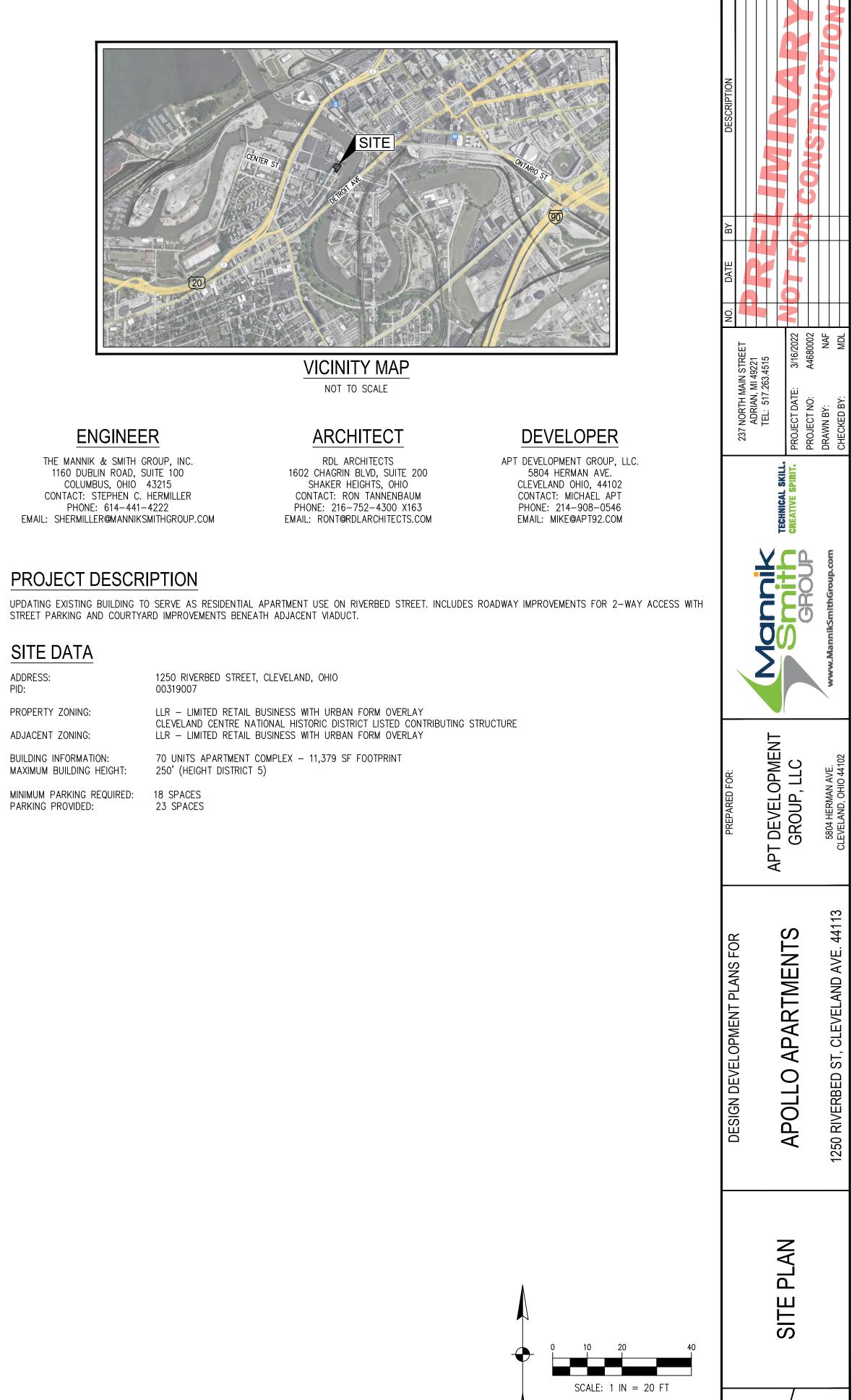
SCALE: 1" = 16' 0 4' 8' dla: #21028 COPYRIGHT © 2021

MARCH 17, 2022



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3

### ENGINEER

THE MANNIK & SMITH GROUP, INC. 1160 DUBLIN ROAD, SUITE 100 COLUMBUS, OHIO 43215 CONTACT: STEPHEN C. HERMILLER PHONE: 614-441-4222 EMAIL: SHERMILLER@MANNIKSMITHGROUP.COM

### **PROJECT DESCRIPTION**

### SITE DATA

AD

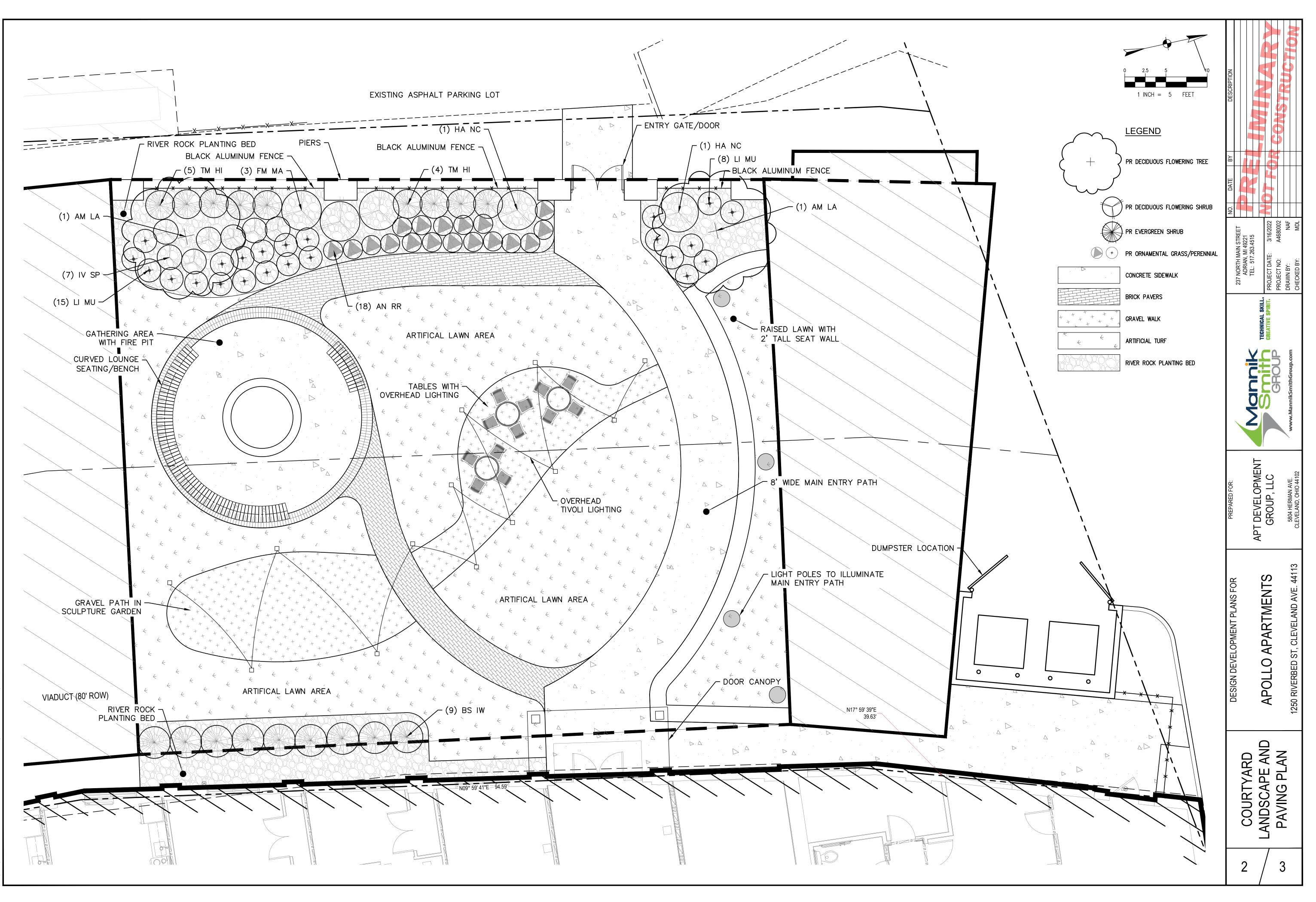
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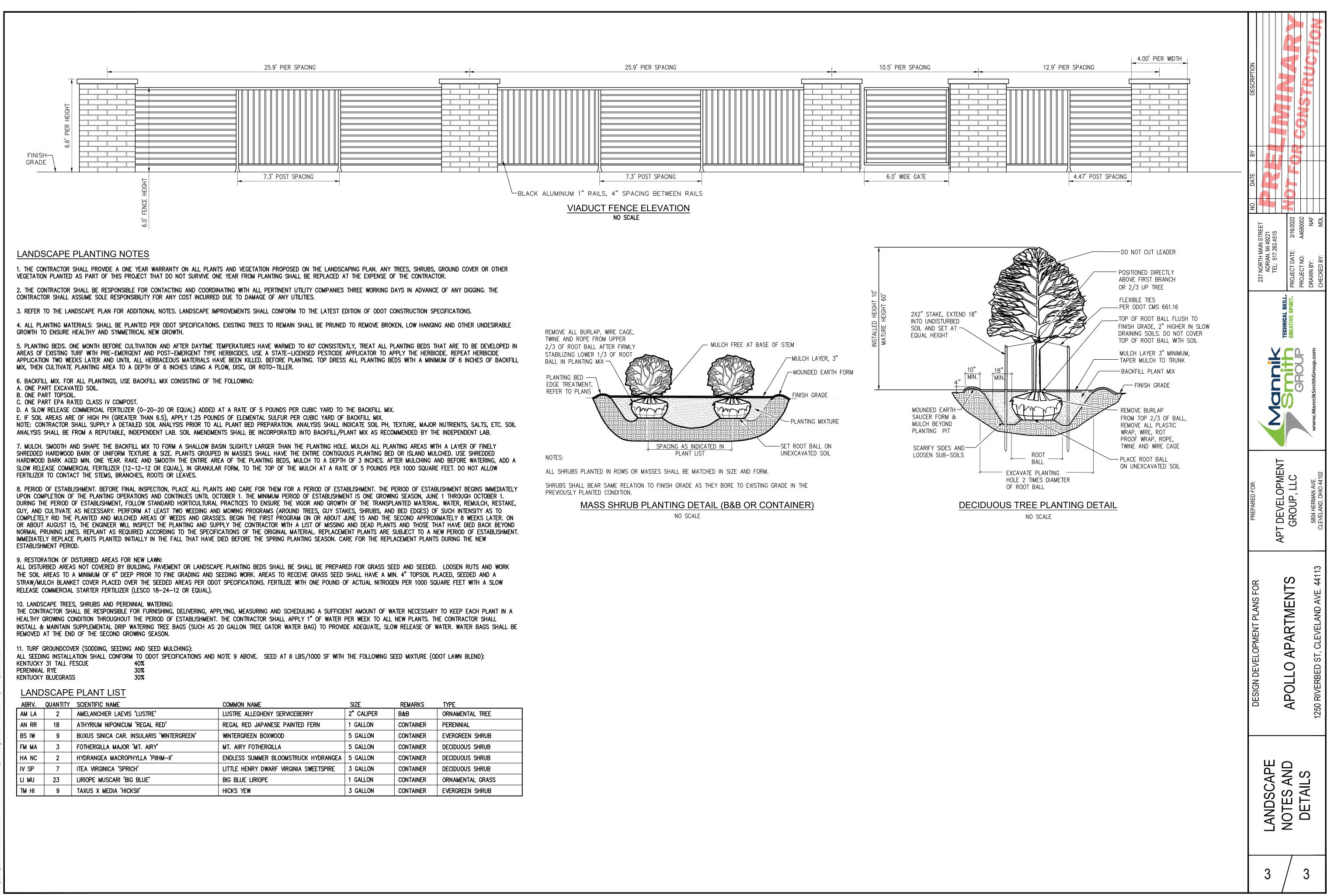
MA

DRESS:	1250 RIVERBED STREE
D:	00319007
OPERTY ZONING:	LLR – LIMITED RETAIL CLEVELAND CENTRE N LLR – LIMITED RETAIL
DJACENT ZONING:	
JILDING INFORMATION:	70 UNITS APARTMENT
AXIMUM BUILDING HEIGHT:	250' (HEIGHT DISTRICT

MINIMUM PARKING REQUIRED: 18 SPACES PARKING PROVIDED:



cds A-EIA4680002\CAD\SHEETS\DRC LANDSCAPE\1250 Riverbed\_DRC Set dwg Last saved 3/15/2022 3:22 PM by nfawver, plotted 3/15/2022 7:14 PM



RNAMENTAL TREE
ERENNIAL
VERGREEN SHRUB
ECIDUOUS SHRUB
ECIDUOUS SHRUB
ECIDUOUS SHRUB
RNAMENTAL GRASS
VERGREEN SHRUB

# Apollo Apartments

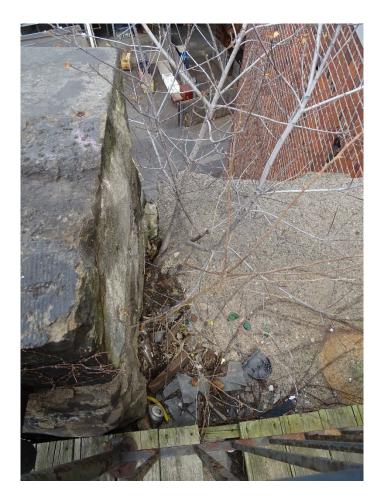
1250 Riverbed Street

Impacts on Superior Viaduct

Staff Introduction







# **Cleveland Landmarks Commission**

# **Concept Plan**



March 24, 2022



March 24, 2022

Case 22-030: Norma Herr Women's Center
(Former Amalgamated Clothing Workers of America)
2227 Payne Avenue
Lobby Renovation and Elevator Addition

Ward 7: Howse

Project Representatives: Brian Grambort, Hiti DiFrancesco + Siebold Architects

# Presentation to: Cleveland Downtown Flats Design Review

March 17, 2022

# Norma Herr Women's Center

# Lobby Renovation and Elevator Addition 2227 Payne Avenue





### 2227 Payne Avenue

Hiti, DiFrancesco and Siebold, Inc.



Hiti, DiFrancesco and Siebold, Inc.

# History of Norma Herr

- **1949**: Construction completed on Sidney Hillman Memorial Building
- **2004-current**: Building houses the Women's Center.
  - Emergency shelter for homeless women



VIEW OF 2249 PAYNE AVE. FRATERNAL ORDER OF POLICE

## **CONTEXT VIEWS**



VIEW OF 2301 PAYNE AVENUE CLEVELAND POLICE CREDIT UNION

## **CONTEXT VIEWS**



VIEW OF 2209 PARKING LOT

## **CONTEXT VIEWS**

Hiti, DiFrancesco and Siebold, Inc.



VIEW OF CAMPUS INTERNATIONAL SCHOOL

### **CONTEXT VIEWS**



VIEW OF CAMPUS PARKING LOTS

## **CONTEXT VIEWS**



**EXISTING FRONT ELEVATION** 

### Norma Herr Women's Center



HISTORIC BUILDING FRONT ELEVATION



FRONT ELEVATION POST 2009 RENOVATION

Hiti, DiFrancesco and Siebold, Inc.

# Paralline

Basic Line - Clear Glass - Paralline

**Typical Dimensions** 19cm x 19cm x 8cm (7.5" x 7.5" x 3")

Home 
Glass Block 
Basic Line 
Clear Glass 
Paralline



Paralline Pattern 1919/8

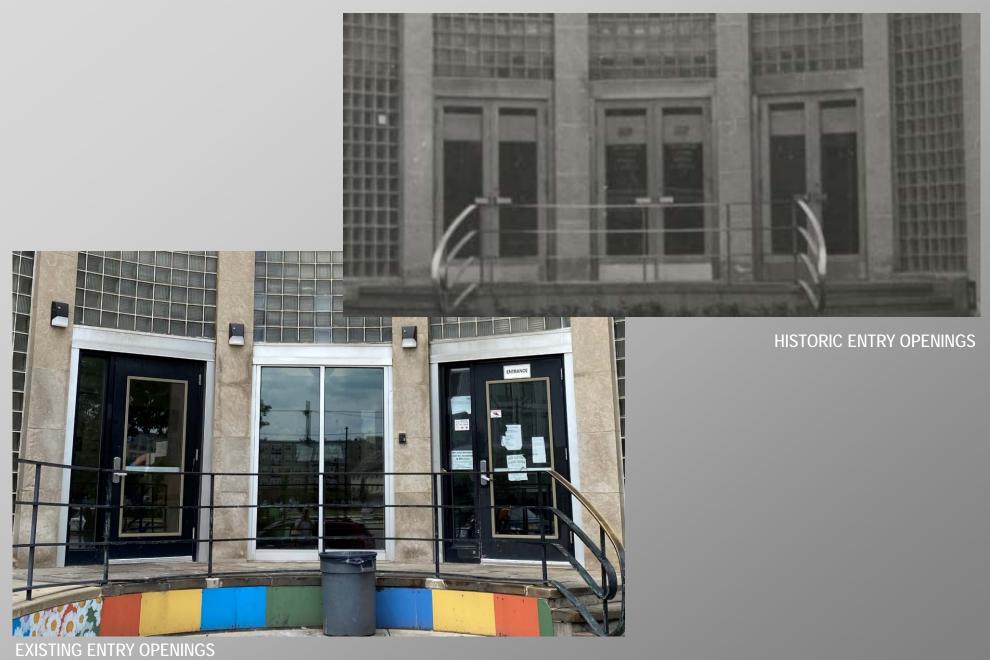
PROPOSED GLASS BLOCK



EXISTING GLASS BLOCK – EXTERIOR VIEW QUARTER TURN INSTALLATION



EXISTING GLASS BLOCK – INTERIOR VIEW QUARTER TURN INSTALLATION





**EXISTING ENTRANCE** 

#### Norma Herr Women's Center

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STAINLESS DOORS

# **Colored Stainless**

Colored Stainless steel is available in a wide range of colors. These are the more common colors used in the architectural building industry. Through partnerships with quality stainless steel sheet metal manufactures, Stainless Doors offers architects and designers the luxury of selecting a color that best suits there design criteria. For additional options please contact the factory.

#### PROPOSED DOORS AND FRAMES

Champagne

Hiti, DiFrancesco and Siebold, Inc.

>>All specifications are subject to change without notice





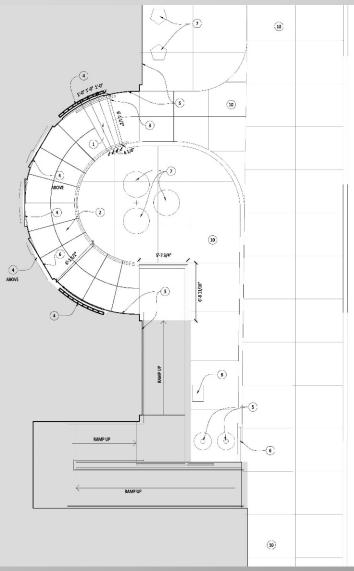
# Lanterra 9003

**EXISTING WALL SCONCES** 

#### Norma Herr Women's Center

PROPOSED WALL SCONCE BRONZE FINISH

Hiti, DiFrancesco and Siebold, Inc.



ENTRANCE SITE PLAN

## Norma Herr Women's Center

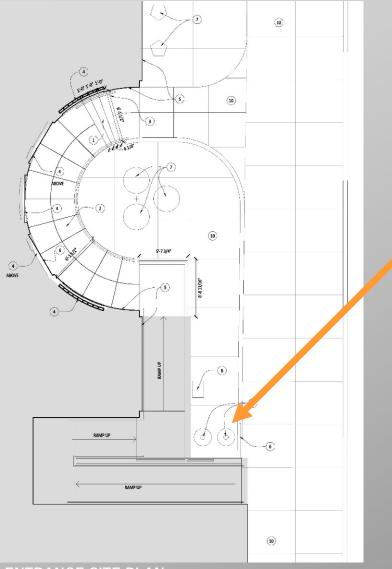


EXISTING ENTRY WALK



**EXISTING ENTRY STAIRS** 

Hiti, DiFrancesco and Siebold, Inc.

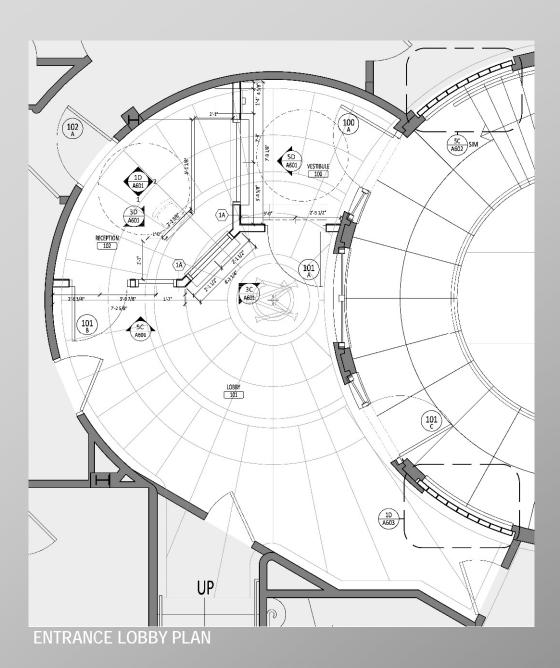




ENTRANCE SITE PLAN

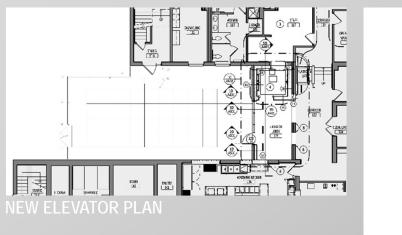
Norma Herr Women's Center

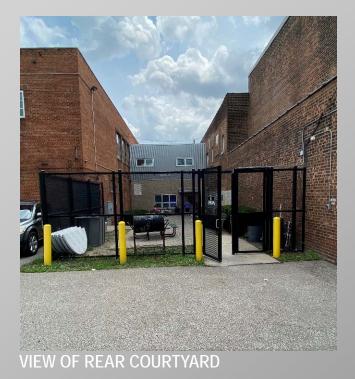
TRASH RECEPTACLES



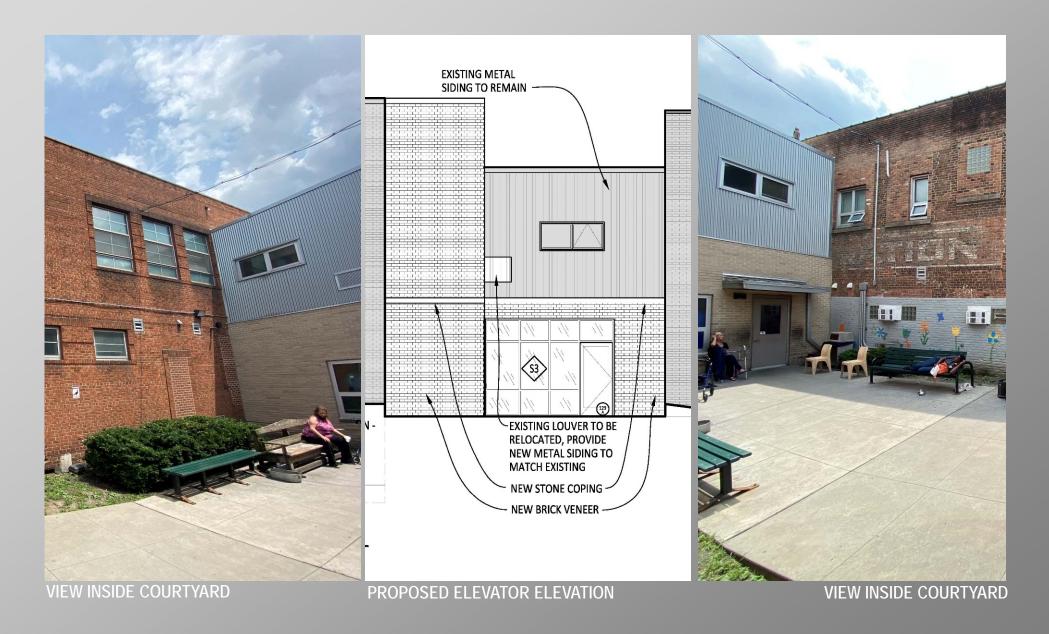


**EXISTING LOBBY** 











VIEW INSIDE COURTYARD

PROPOSED BRICK ACME MODULAR VELOUR STEELE GRAY - 106391

Steele Gray



VIEW INSIDE COURTYARD

# Presentation to: Cleveland Downtown Flats Design Review

March 17, 2022

# Norma Herr Women's Center

# Lobby Renovation and Elevator Addition 2227 Payne Avenue

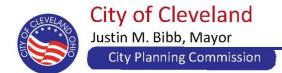


# **Cleveland Landmarks Commission**

# **Design Review**



March 24, 2022



601 Lakeside Avenue, Room 501, Cleveland, OH. 44114 T: (216) 664-2210 F: (216) 664-3281 I www.planning.city.cleveland.oh.us

#### Downtown | Flats Design Review Advisory Committee Meeting Motion and Report Form

Meeting Location: Virtual, 9:00 AM

Case Number:	DF2022-014	Meeting Date: 3-17-2022						
Project Name:	Norma Herr Renovation	Ward #: 3						
Project Address:	2227 Payne Ave							
Project Rep. :	Brian Grambort, hd+s							
Existing Use:		Proposed Use: Same						
Project Scope: Rene	ovations to historic Norma Herr b	building						
Design Review Level Applied For: Final								
Design Review Level	Applied For: Final							
	Applied For: Final eview Committee: Conceptual							
	eview Committee: Conceptual	ons) 💽 Disapprove 🔵	Table					
Motion by Design Re	eview Committee: Conceptual	ons) 💽 Disapprove 🔘	Table					

Symmetry of front facade

Committee Action: (1 = First; 2 = Seco				2 = Second	nd; R = Recusal Yea = Yes; Nay = No; Abst. = Abstain; Pres. = Present)			
Bialosky	(C)	🔳Yea 🗆 Nay	🗆 Abst.	Pres.	Schwartzberg	🔳 Yea 🛛 Nay	🗆 Abst.	Pres.
Bogart		🔳 Yea 🛯 Nay	🗆 Abst.	□ Pres.	Soltis	🔳 Yea 🛛 Nay	🗆 Abst.	Pres.
Boyd		🗆 Yea 🗆 Nay	🗆 Abst.	□ Pres.	VanderWiel	🔳 Yea 🛛 Nay	🗆 Abst.	Pres.
Brown		🔳 Yea 🛛 Nay	🗆 Abst.	Pres.	Yablonsky	🔳 Yea 🛛 Nay	🗆 Abst.	Pres.
Geist	(VC)	🔳 Yea 🛛 Nay	🗆 Abst.	Pres.	Zarfoss	🗆 Yea 🗆 Nay	🗆 Abst.	□ Pres.
Pesarchick		🔳 Yea 🛯 Nay	□ Abst.	Pres.				
Non-Voting	Members	s in Attendance:						
🔳 Dro Soh	rabian	🗆 Michael Bo	osak 🛛 🗆 Marka Fields					
Applicant Signature & Date: Virtu					ual Meeting – No Signature Required			

CLEVELAND OF OF

March 24, 2022

Case 22-031: Little Italy Historic District CWRU South Residential Campus Murray Hill Road New Construction of Student Residences Phase 1 & 2 Ward 6: Griffin Project Representatives: Christopher Panichi, Joanne Brown, CWRU; Sindu Meier, William Rawn Associates



#### Office of Planning, Design & Construction

Case Western Reserve University 10620 Cedar Avenue Cleveland, Ohio 44106-7228 Phone 216.368.6907 Fax 216.368.0765

March 10, 2022

PROJECT SUMMARY - CWRU - SRV RESIDENCE HALLS

Case Western Reserve University (CWRU) is proposing additional housing on our south campus to support second-year students. Due to increased class size, current second year student housing is divided. Second-year students are primarily housed in the South Residential Village with the overflow being accommodated in Clarke Tower within the North Residential Village. The university desires to bring second year students together to build a stronger connection and strengthen the sense of community. CWRU recently renovated our south dining hall, Fribley Commons, to support the existing and future second-year students.

CWRU is proposing the addition of 600 new beds within 2 new residence halls – a 56,900 GSF "Murray Building", fronting on Murray Hill Road; and a 139,100 GSF "Hill Building" located behind (southeast) of the "Murray Building". These buildings will replace existing parking Lot #5 (located near the intersection of Murray Hill and Adelbert Rd. between Fribley Commons and Greek houses) and slightly encroach into vacant land owned by CWRU.

It is important to note that CWRU is also seeking a zoning map amendment as part of this project process. The property is currently zoned MF-C1, with adjacent properties zoned both MF-D2 and MF-E3. Rezoning to the MF-D2 district and map amendment will result in complete compliance of this project. Both the zoning map amendment and design review approval processes are running simultaneously, with a goal of completion by summer of 2022.

The university has ample parking available within proximity existing lots. Parking capacity of these proximity lots totals over 1,400 spaces, with 363 spots unassigned and available. The number of parking spots required to accommodate both the new halls and replacement of the "lost" parking of Lot #5 is 328.

Our architectural landscape consultant is in conversations with the City of Cleveland's Urban Forestry department to develop a Tree Preservation Plan. Finalization will occur with the change



PAMPS KIZ

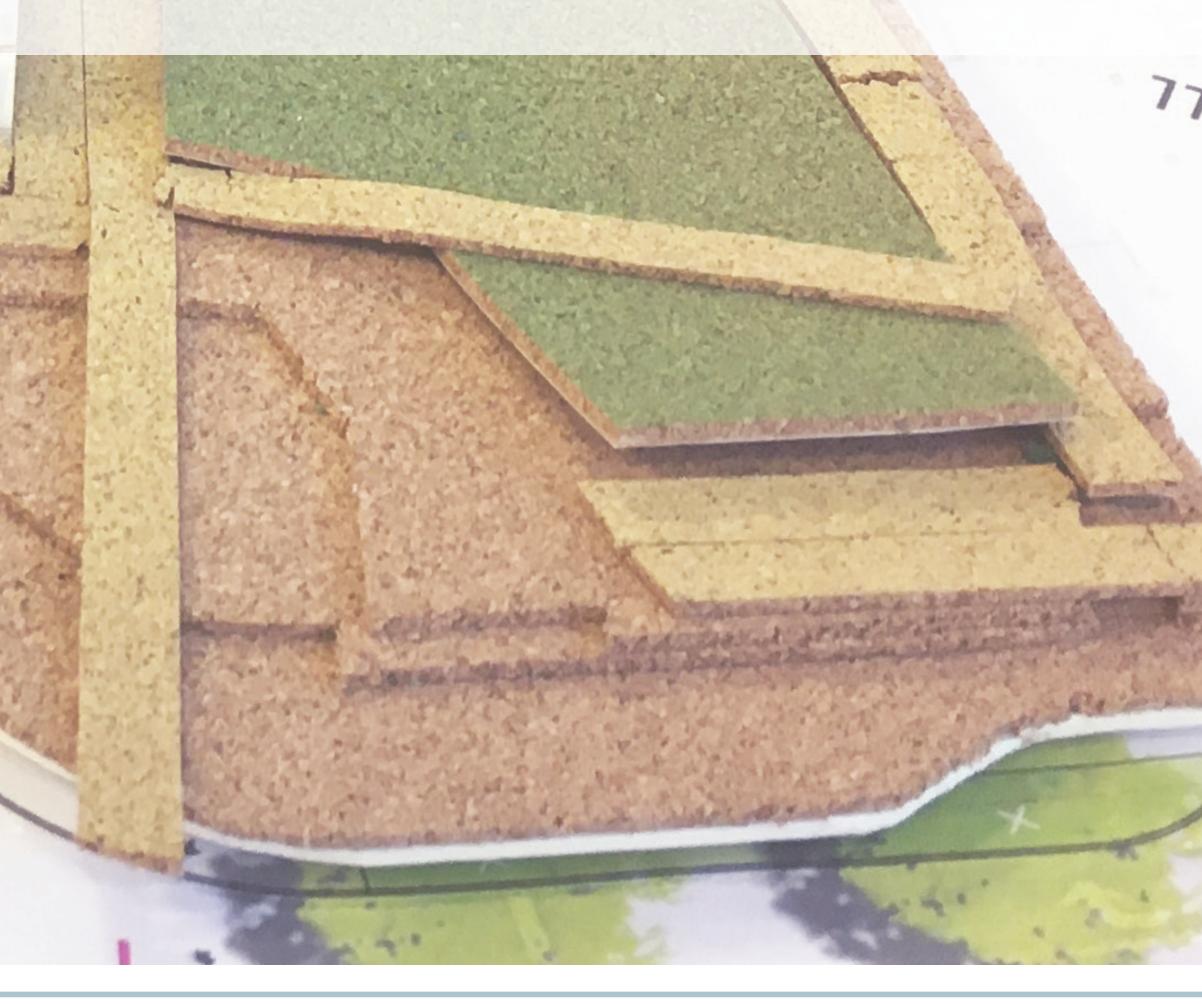


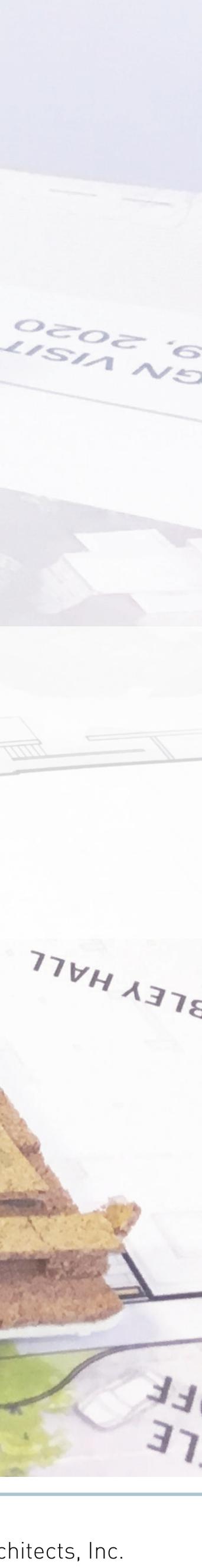
# **SRV RESIDENCE HALLS - PHASE I & II** LITTLE ITALY NEIGHBORHOOD AND CITY REVIEW

# MARCH 15, 2022

SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022









# PROJECT INTRODUCTION SCHEDULE ZONING PARKING APPROACH



SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022



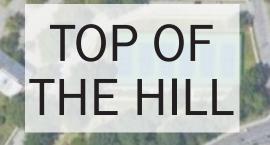


SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

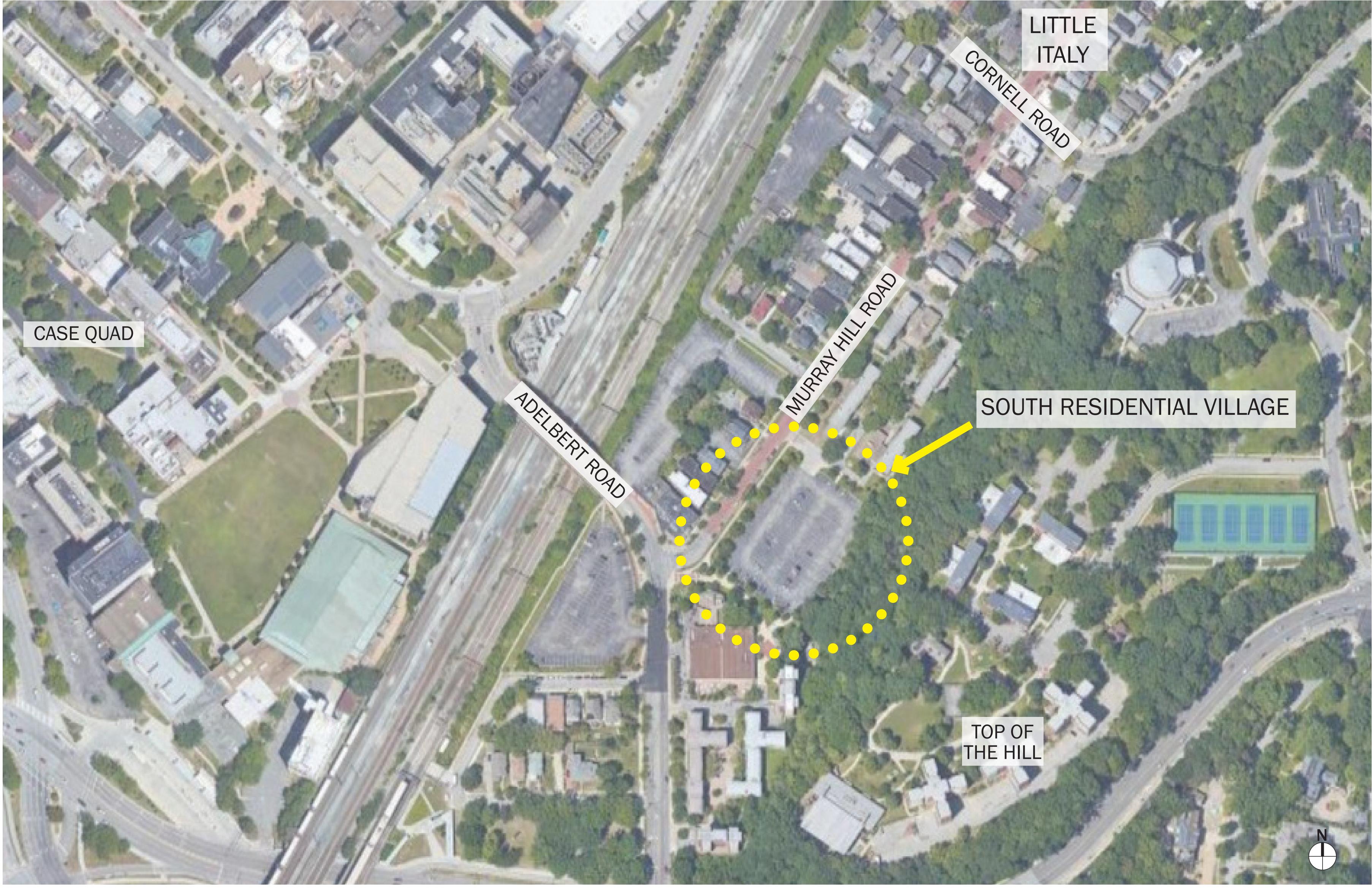


# SOUTH RESIDENTIAL VILLAGE

FUR OFFICE





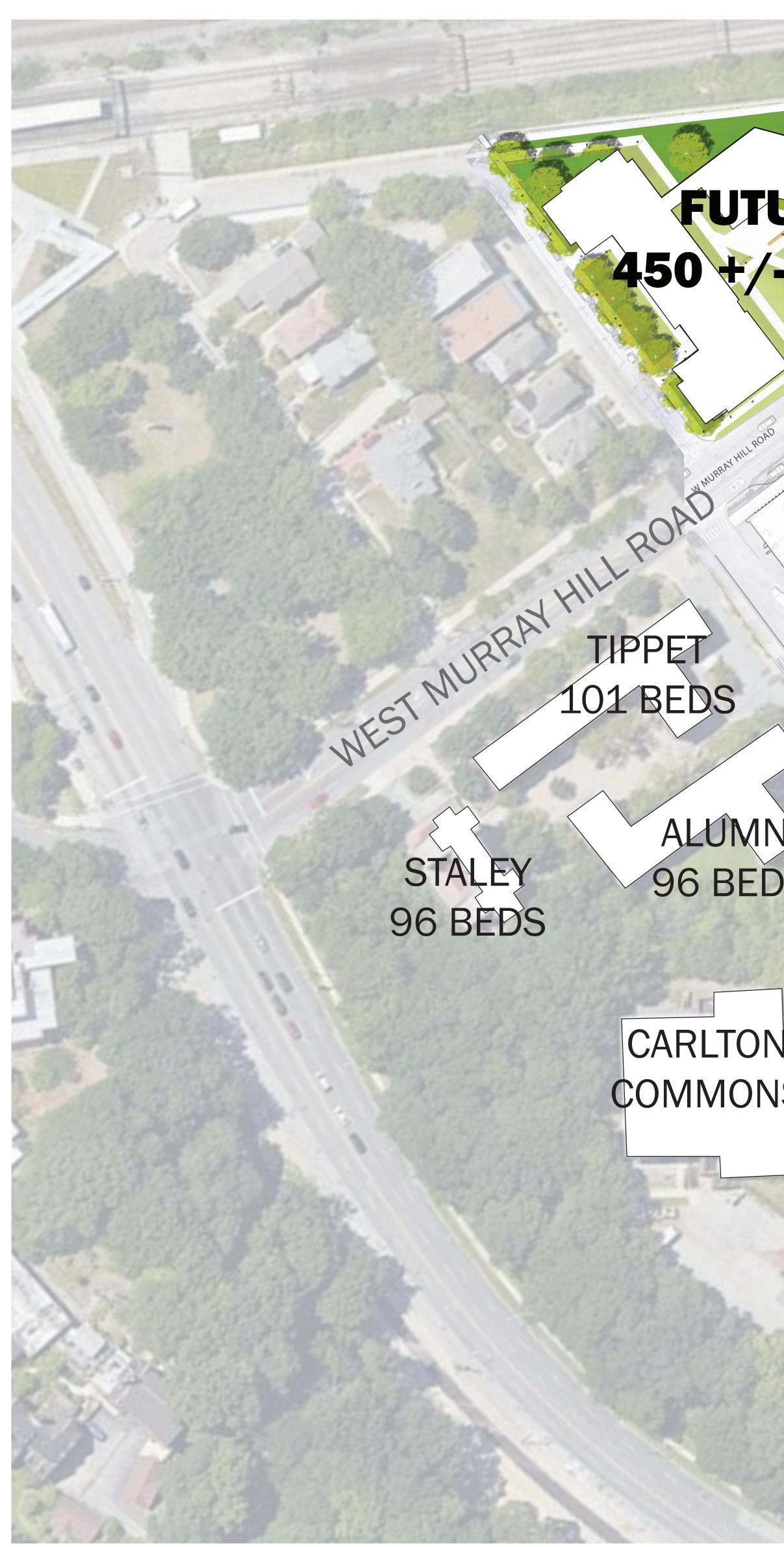




SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022



# **CWRU SOUTH CAMPUS MASTERPLAN**





FUTURE 450 +/- BEDS

FRIBLEY HAL

ALUMN 96 BEDS

HOWE 96 BEDS

CARLTON COMMONS

MICHELSON **132 BEDS** 

> GLASER 132 BEDS

SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022



MURRAY HILL ROAD

PHASEI & I

600 BEDS



GREEK HOUSING

KUSCH 130 BEDS



# **PROJECT GOALS**





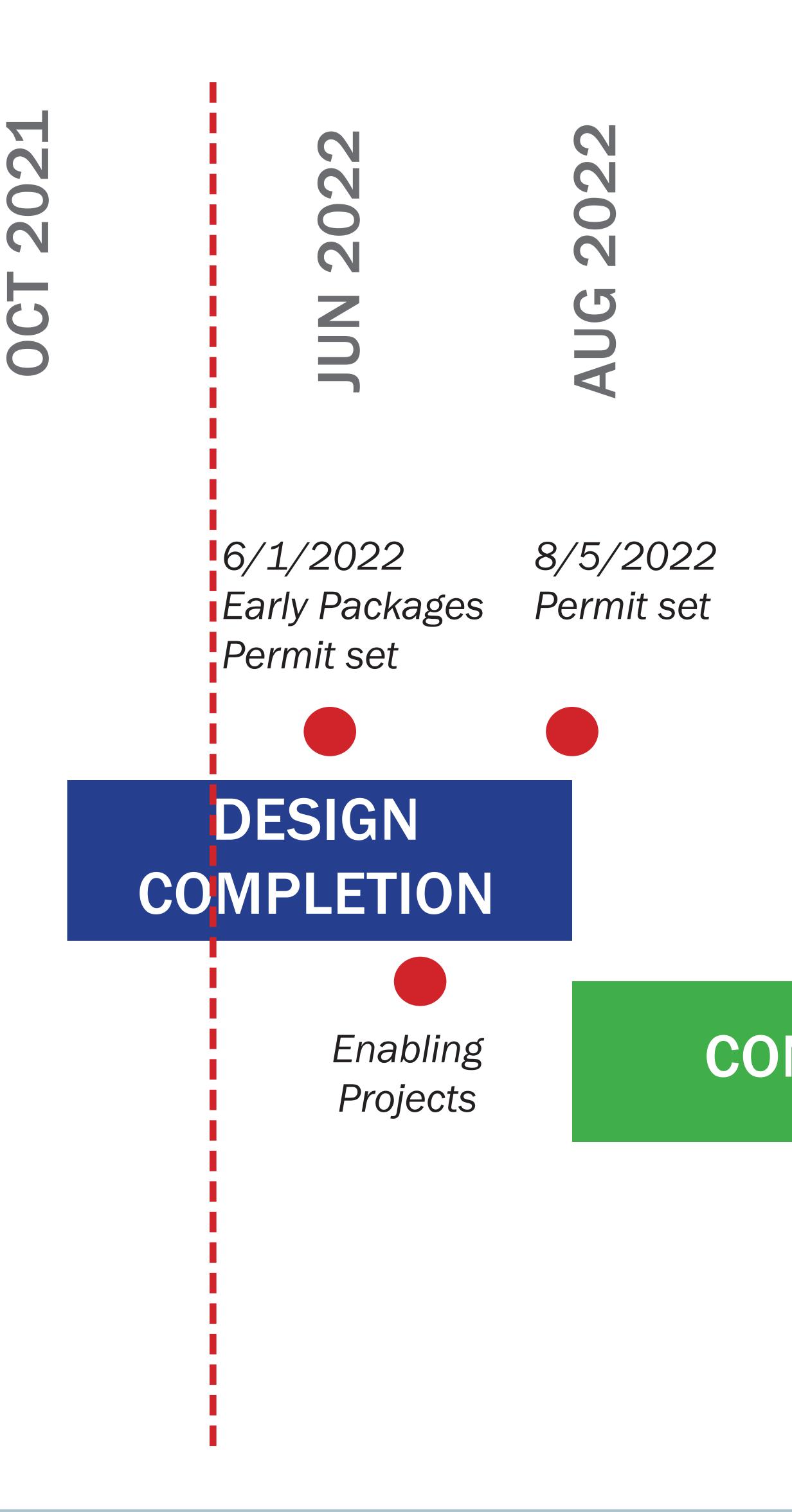
# 600 BEDS (Second Year Students) **OPEN FALL 2024**

SRV RESIDENCE HALLS - PHASE I & II **MARCH 15, 2022** 

# **PROJECT SCHEDULE**







SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022



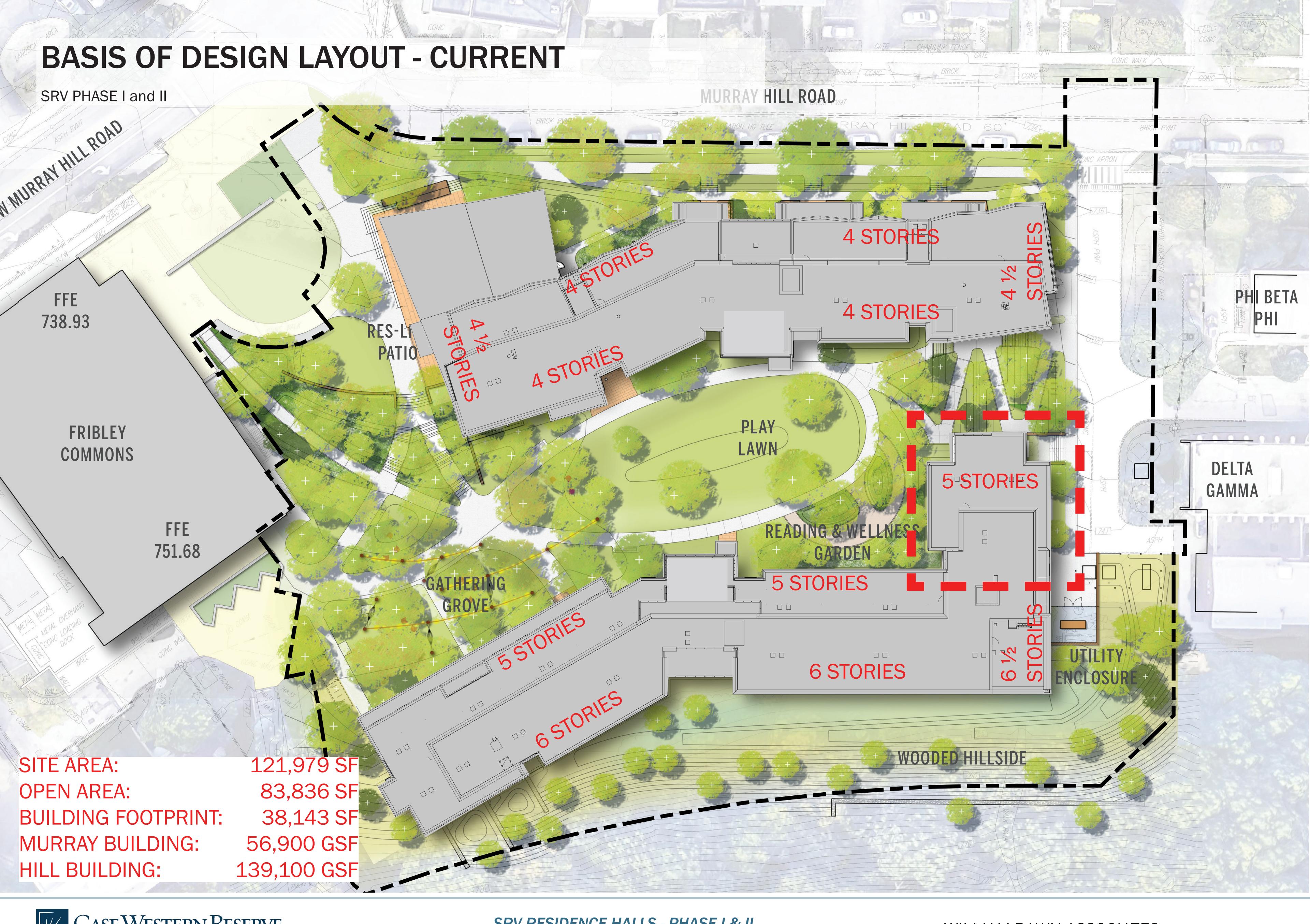
# CONSTRUCTION











CASE WESTERN RESERVE UNIVERSITY SOUTH RESIDENTIAL VILLAGE

SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022













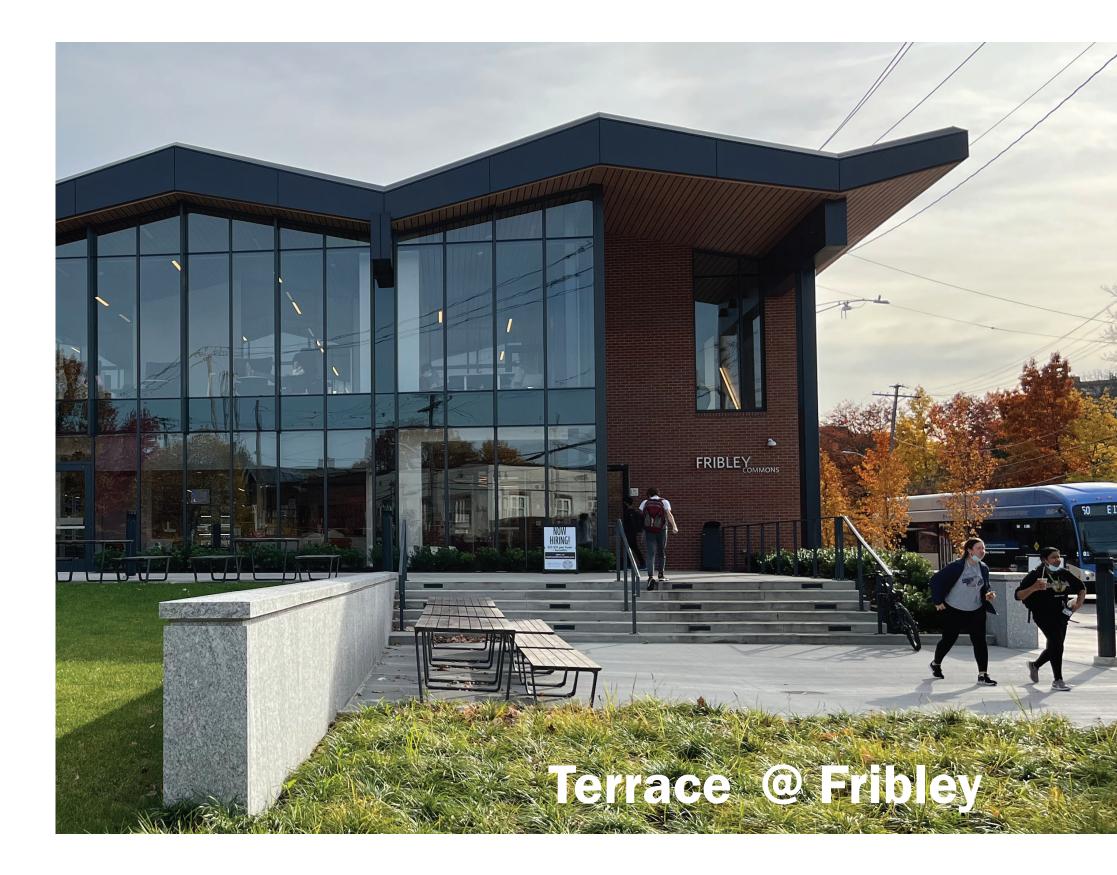
# **EXISTING CONTEXT**



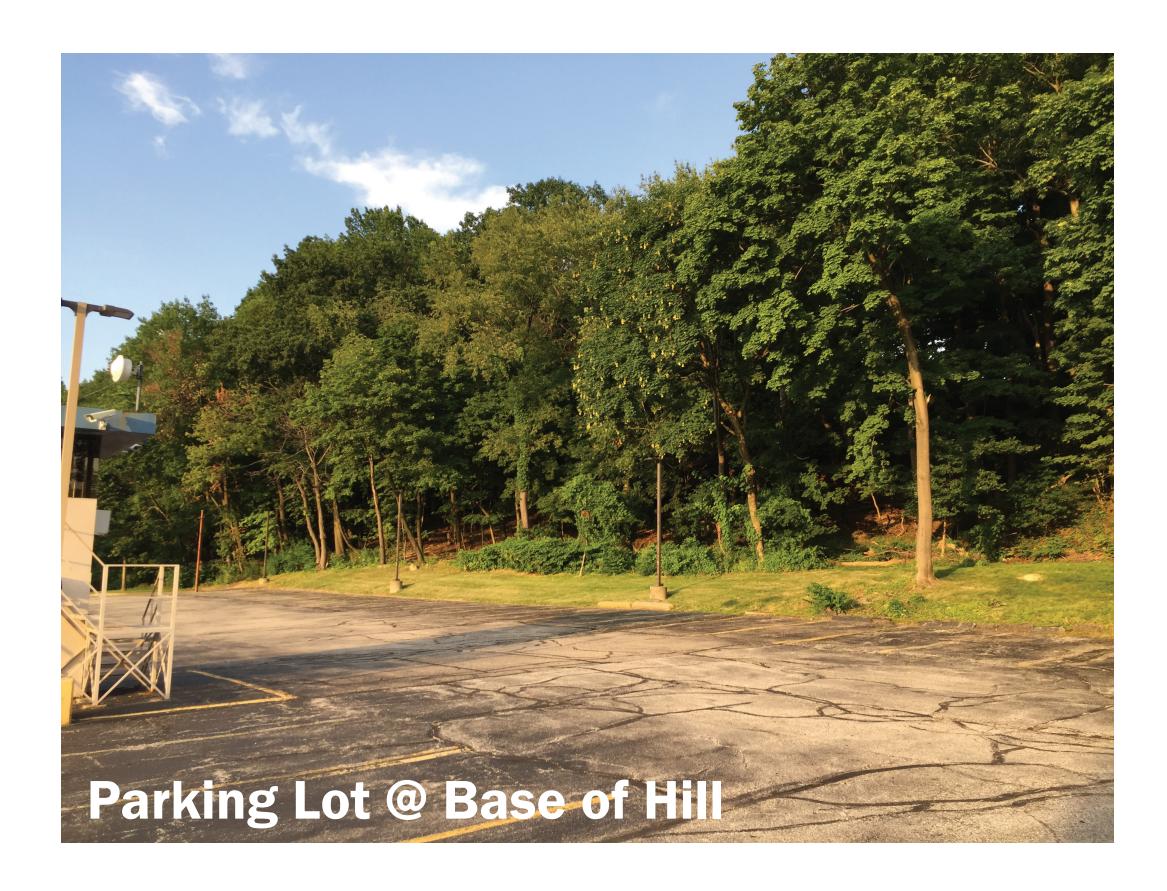








SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022





# LITTLE ITALY: SCALE AND CONTEXT



View of Murray Hill Road Looking Toward Fribley







# SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022





## **LITTLE ITALY: RECENT & UNDER CONSTRUCTION PROJECTS**



## **OTHER NOTABLE BUILDINGS IN AREA**

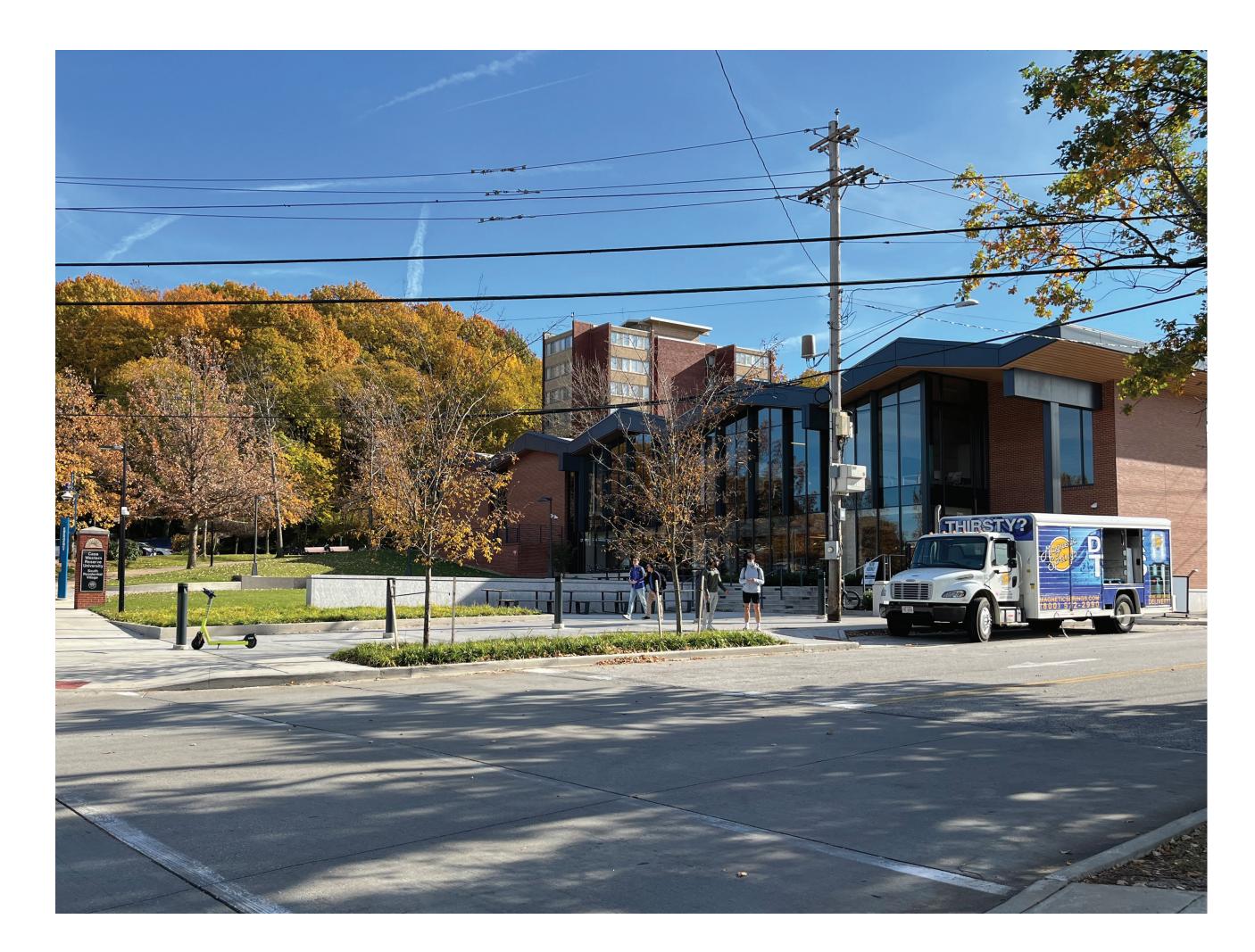




SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022



## FRIBLEY COMMONS RENOVATION









SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## **RENDERED ELEVATION** VIEW FROM ACROSS MURRAY HILL ROAD







SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## **RENDERED VIEW** VIEW FROM MURRAY HILL ROAD





#### PERSPECTIVE KEYPLAN



SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## **RENDERED VIEW** VIEW FROM ACROSS MURRAY HILL ROAD



KEYPLAN



SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## **RENDERED VIEW** VIEW ALONG MURRAY HILL ROAD



PERSPECTIVE KEYPLAN



SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

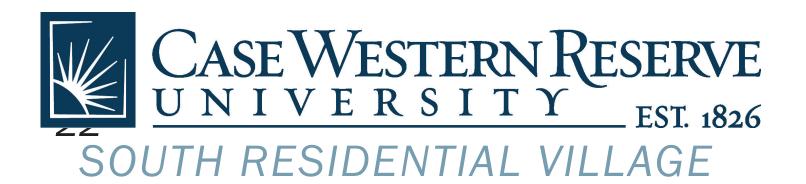
## **RENDERED VIEW** VIEW FROM INTERSECTION AT ADELBERT AND MURRAY HILL



PERSPECTIVE KEYPLAN



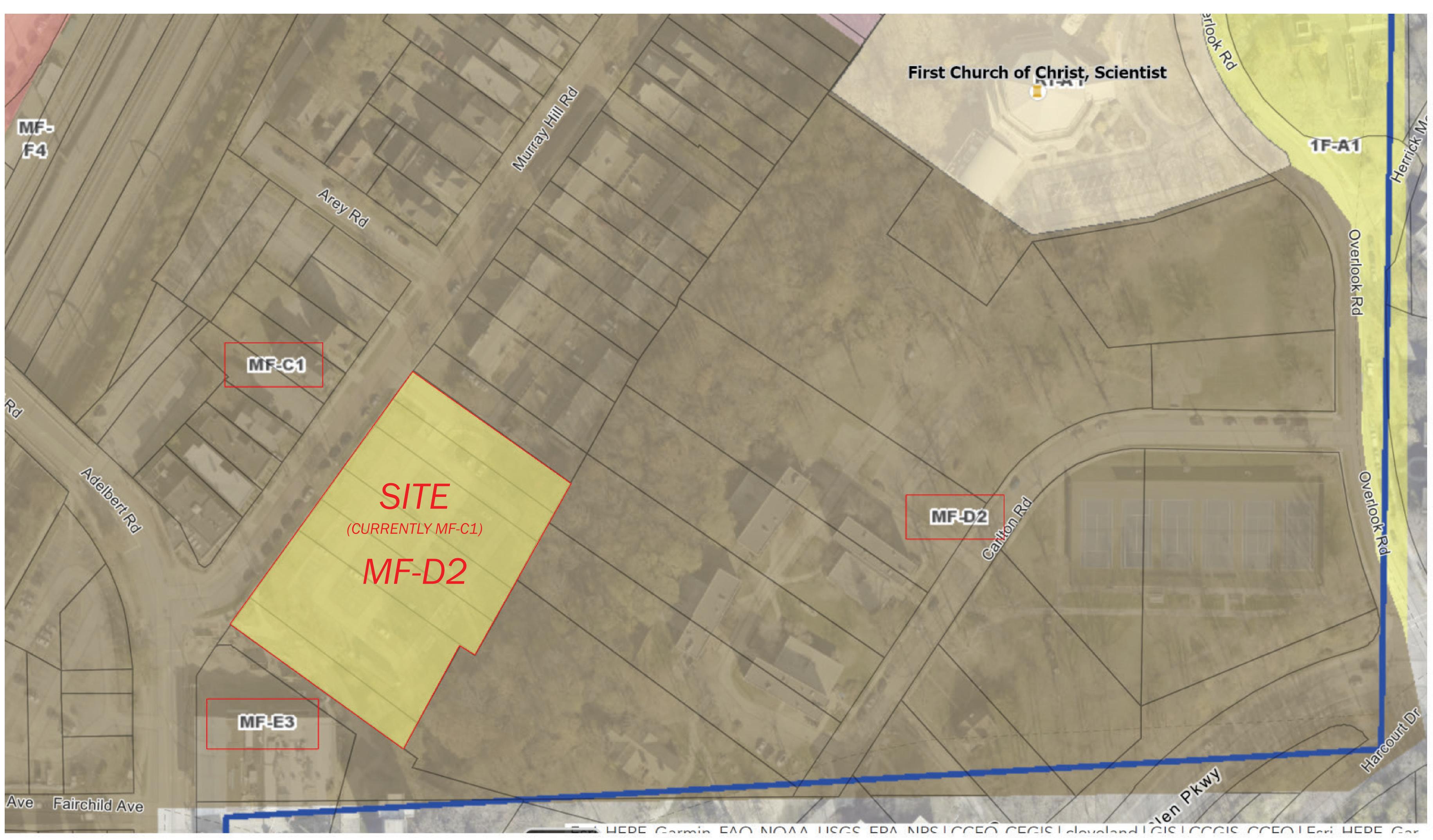
SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022



# ZONING

SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## ZONING MAP





SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## BUILDING ZONE MAP AMENDMENT

## 1. CWRU PLOT CONSOLIDATION

A. DESIGNATE AS MF-D2

# 2. BUILDING HEIGHT

A. 60' ALLOWABLE HEIGHT

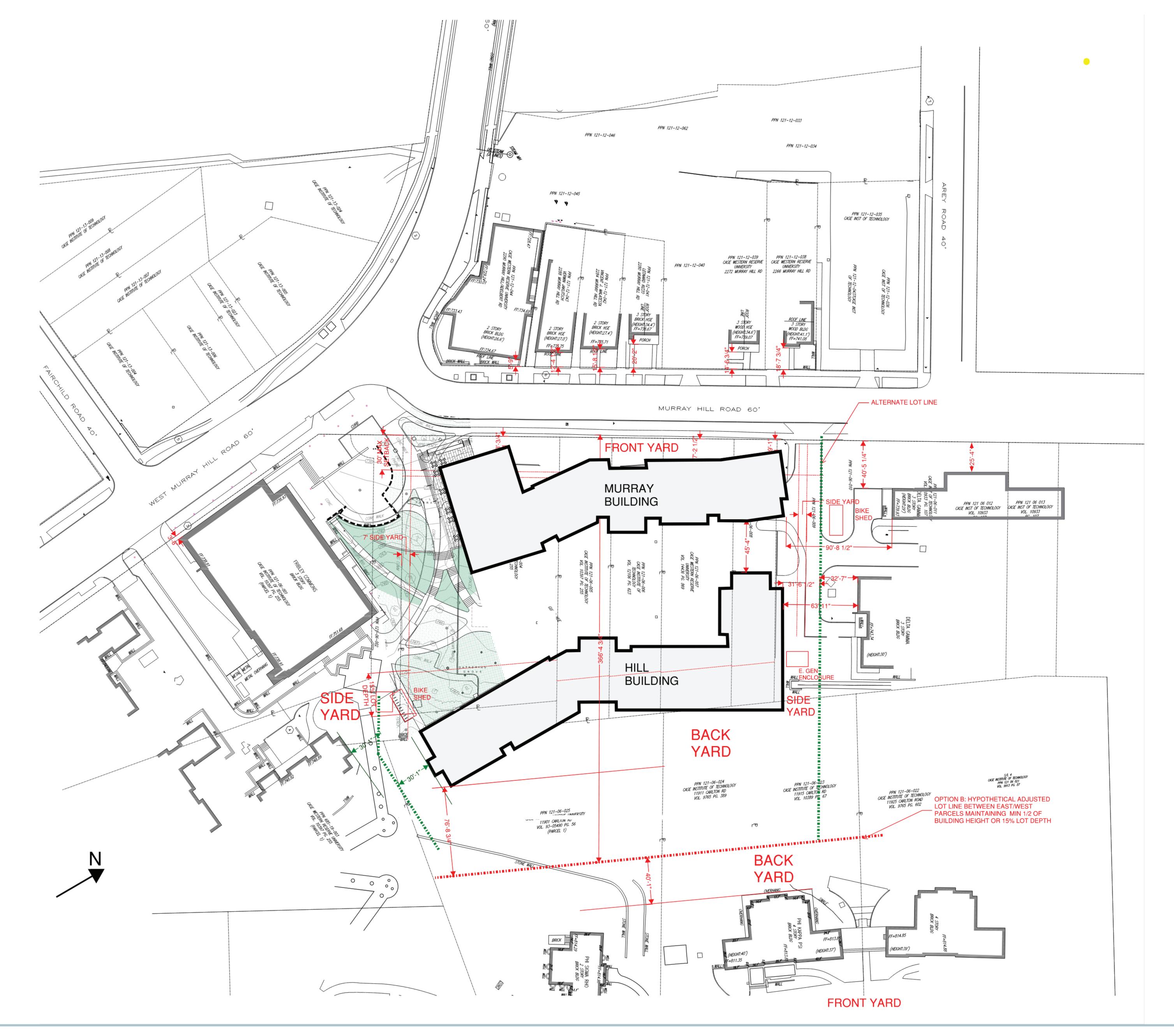
**BEYOND THE SETBACK** 



- B. FRONT YARD = 8'-0'' SET BACK
- B. 2' ADDITIONAL VERTICAL HEIGHT FOR EVERY ONE FOOT BUILDING IS

## **RESULT = COMPLIANT PROJECT**

SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022





SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

WILLIAM RAWN ASSOCIATES | Architects, Inc.

#### **ASSUMPTIONS:**

CLEVELAND OH CODE OF ORDINANCES PART 3: LAND USE CODE

SITE IS MULTI-FAMILY DISTRICT (MF-D2)

MULTIPLE DWELLINGS CLASS B -DORMITORIES (325.51)

#### **BUILDING HEIGHT: 60'**

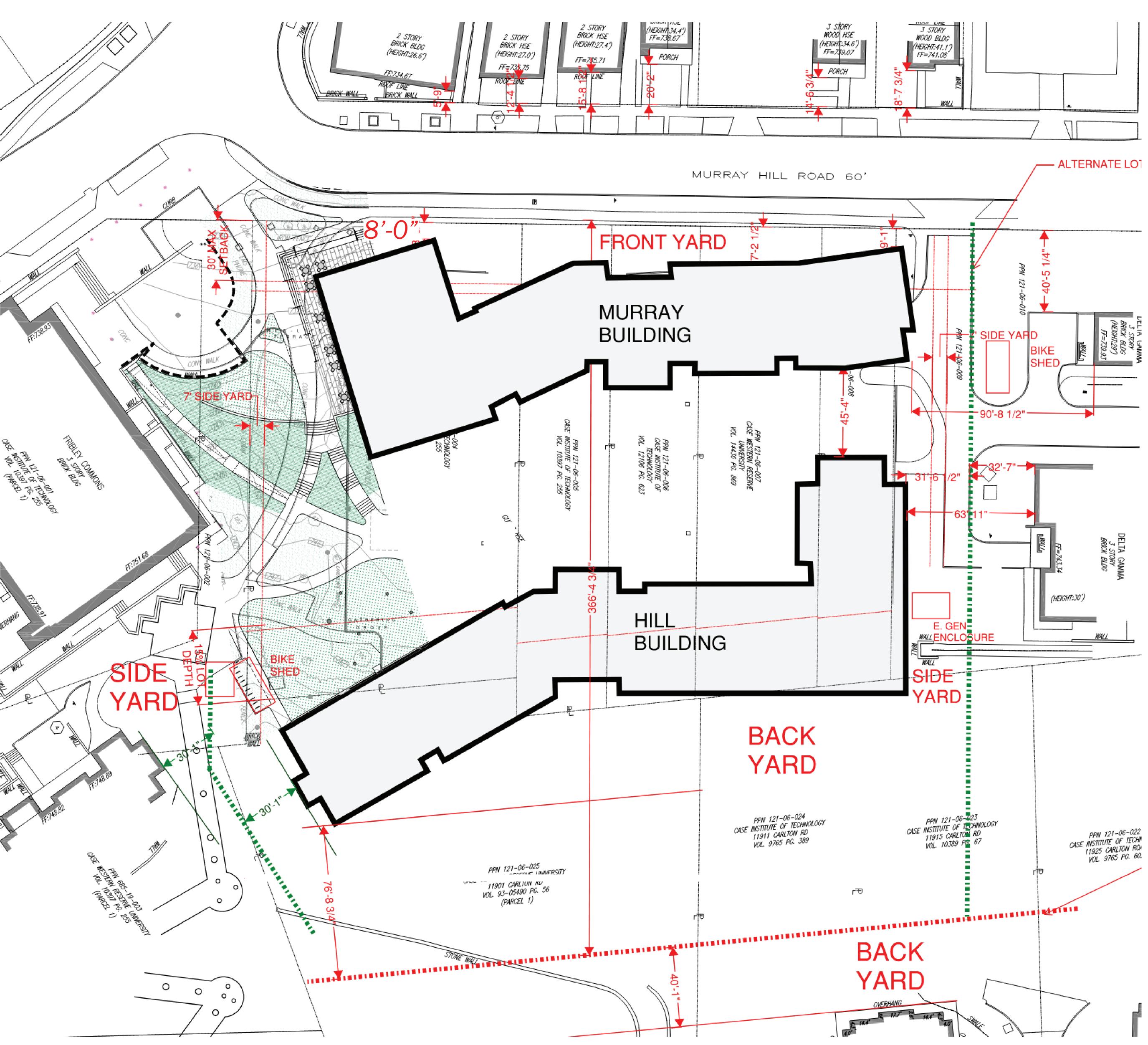
FRONT YARD SETBACKS [357.04 A]: 15% OF THE LOT (NOT TO EXCEED 30')

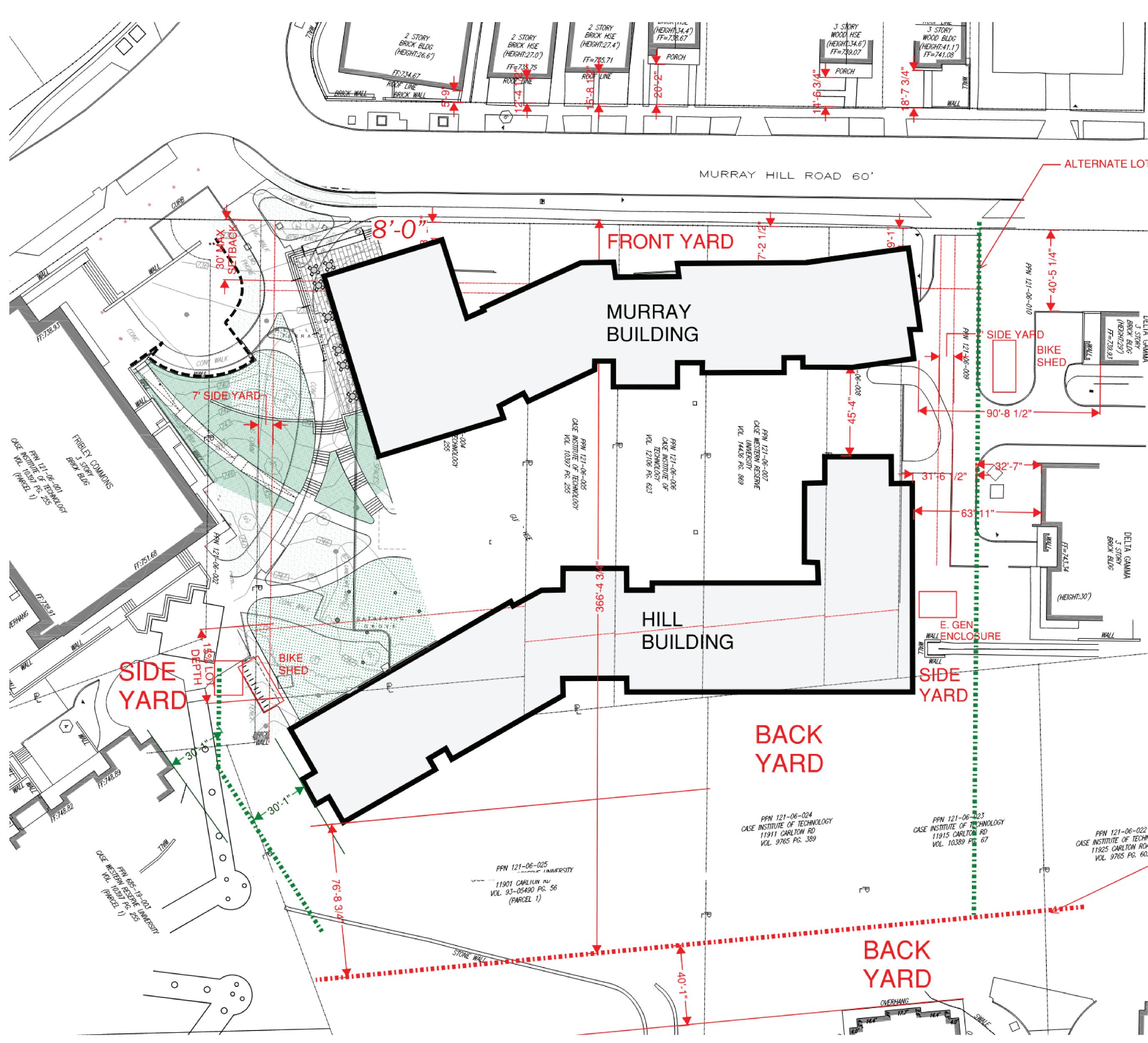
FRONT YARD SETBACK [357.06] EXCEPTION (A): ALIGNMENT TO EXISTING BUILDINGS (FRIBLEY, GREEK HOUSES, OPP. SIDE MURRAY HILL)

REAR YARD SETBACKS [357.08]: 15% OF THE LOT OR 1/2 THE BUILDING HEIGHT

/

SIDE YARD SETBACKS [357.09]: 7' MINIMUM





#### **MURRAY BUILDING** HEIGHT:

Street Side: LEVEL 00- LOWER ROOF 48'-10" LEVEL 00-UPPER ROOF: 62'-10"

Quad Side: LEVEL 01 - ROOF: 49'-8"

#### HILL BUILDING HEIGHT:

Greek Housing Side: MECH EGRESS-ROOF: 77'-2"

Quad Side: Level 00-Lower Roof: 57'-0" Level 00 - Upper Roof: 77'-6"

Hill Side: LEVEL 01 - ROOF: 69'-10"



SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022



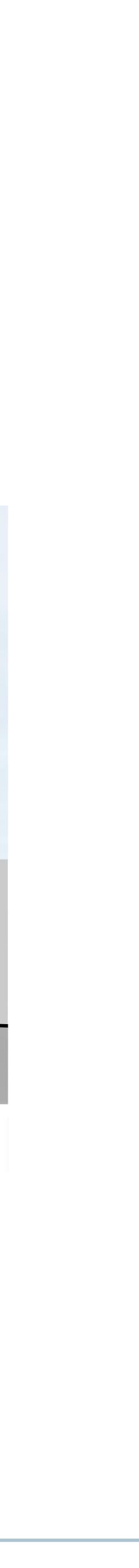
#### KEYPLAN

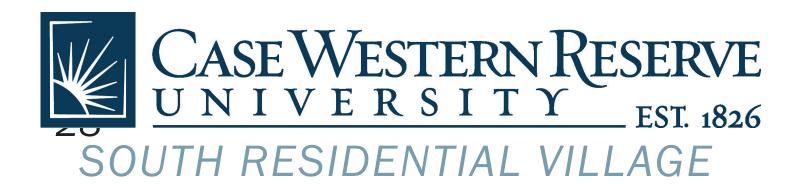




## SITE SECTION

SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022





# PARKING

SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## PARKING ANALYSIS

#### CLEVELAND OH CODE OF ORDINANCES PART 3: LAND USE CODE

337.13 Required Parking Spaces (Table) Dormitories, Fraternities and sororities houses 1 for each 4 beds, plus 1 for the operator or managers living on the premises, plus one for each other employee expected on the premises during the largest work shift period.

Parking for SRV (Phases 1 and 2)

600 beds = 150 spaces 4 Staff Apartments = 4 spaces 0 Full time Maintenance staff = 0 spaces

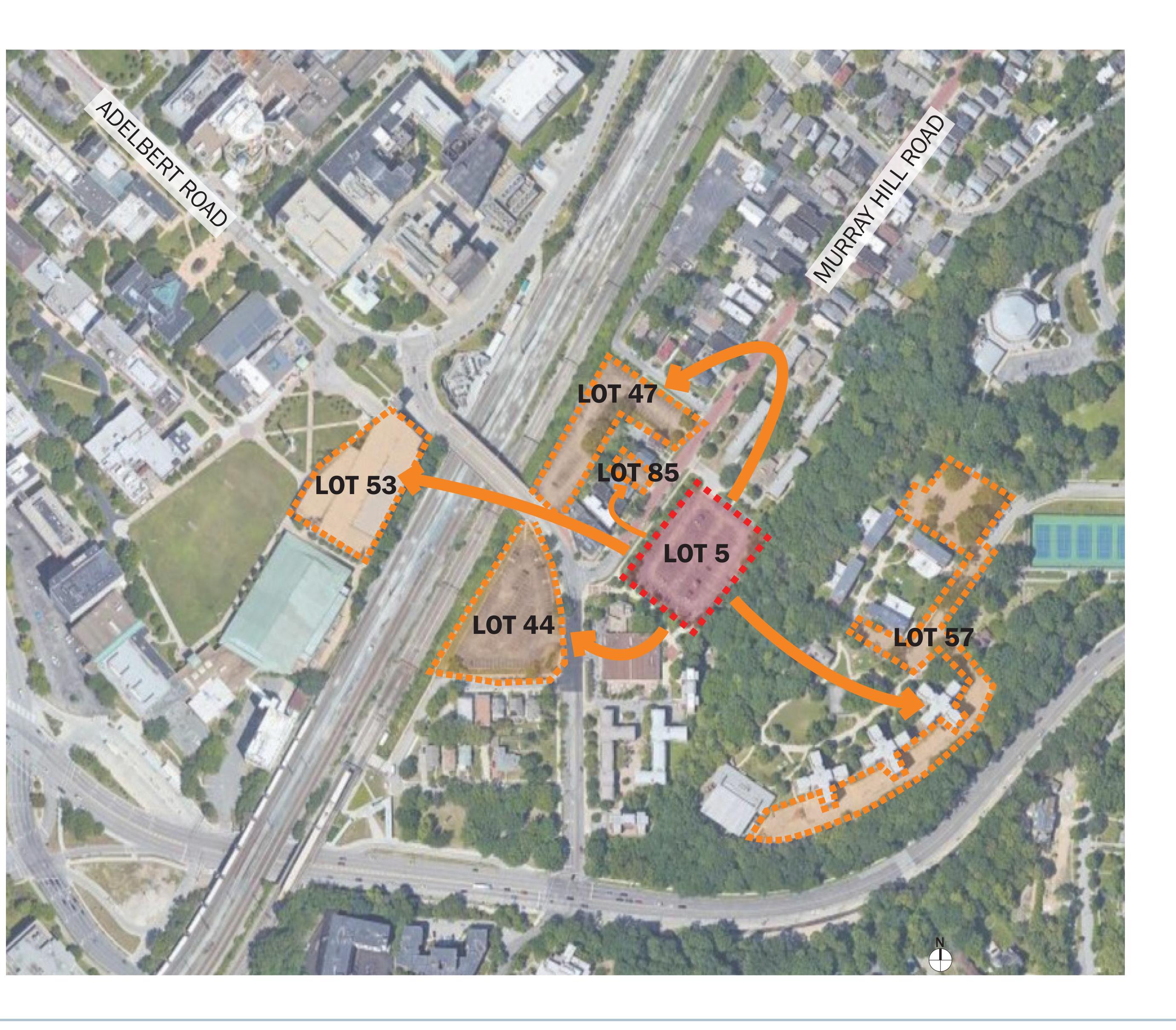
SRV PARKI	NG ANALYS	IS	
PARKING S			
New SRV b	ed count	600	150
(4) full time staff at 1 space each			4
Replacement of Lot 5 parking			174
	TOTAL	REQUIRED	328

Total = 154 spaces

PARKING	SPACES AVAILA	BLE
	Neighboring	
	Lot capasity	Open spaces
Lot 44	137	36
Lot 47	100	24
Lot 57	106	28
Lot 53	1070	272
Lot 85	11	3
то	TAL AVAILABLE	363







SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

## **VIDEO TOUR** WALKING SOUTH DOWN MURRAY HILL ROAD





SRV RESIDENCE HALLS - PHASE I & II MARCH 15, 2022

#### **Cleveland Landmarks Commission**

#### **Landmark Nomination**



March 24, 2022

SUCCESSION OF THE SUCCESSION O

March 24, 2022

#### Advent Evangelical Lutheran Church

15309 Harvard Avenue

Ward 1: Jones

Project Representatives: Rev. Leonard Killings, Pastor; Scott Whitley, Whitley & Whitley Architects

### Cleveland Landmark Nomination

Advent Evangelical Lutheran Church

15309 Harvard Avenue



#### Rev. Allen G. Youngblood

- Ordained Philadelphia Lutheran Seminary 1945
- Organized Annunciation Lutheran Church in Philadelphia (1945-1952)
- Organized Ascension Lutheran Church in Toledo (1952-1960)
- Came to Cleveland to organize a Lutheran Church on the east side of Cleveland (1960)
- Services begun at the Masonic Temple of York Masons, 13512 Kinsman Road on November 27, 1960 with 9 members

#### Lutheran Church in America

- June 1961
- Merger of four organizations
  - United Lutheran Church in America
  - Augustana Lutheran Church
  - American Evangelical Lutheran Church
  - Suomi Synod
- Lutheran Church in American merged with the American Lutheran Church, American Lutheran Church, and the Association of Evangelical Lutheran Churches in 1988 to form the Evangelical Lutheran Church of America (ELCA)

#### Advent Evangelical Lutheran Church



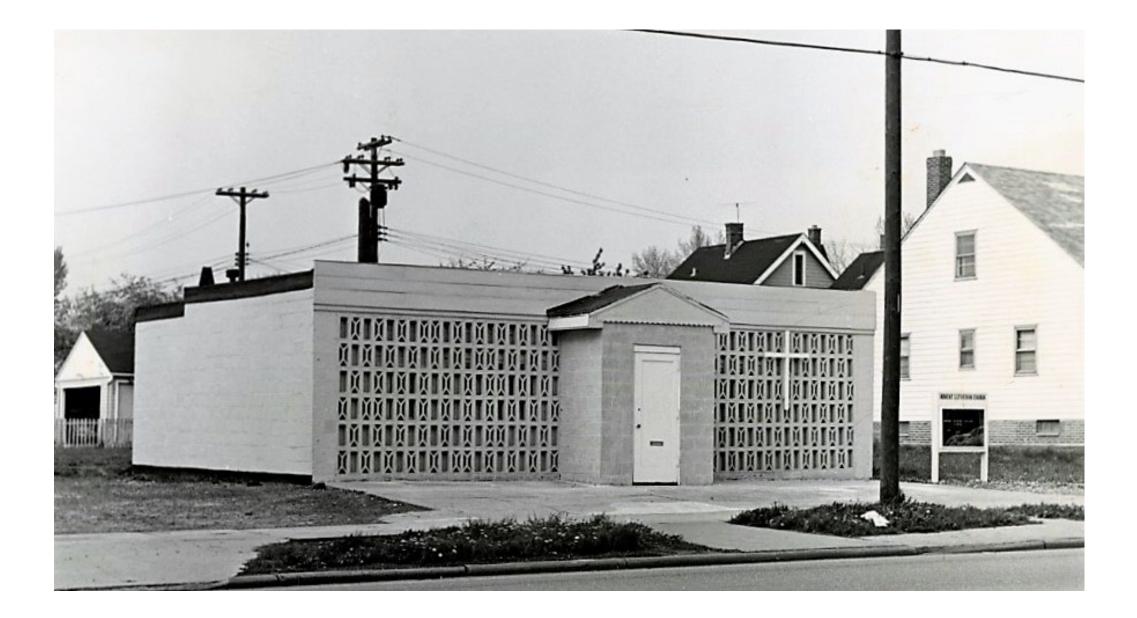
Interracial Church Is Organized

An interracial congregation Rev. Allen G. Youngblood, of York Masons, were moved —Advent Lutheran Church was formally organized yesterday in what was formerly a carry-out store at 15309 Harvard Avenue S.E. Dr Harvard Avenue S.E.

Dr. Herbert H. Veler, presider in the Shaker Heights pubdent of the Synod of Ohio of lic school system. THE United Eutheran Church in America, officiated at the rite, assisted by Dr. Albert beginning construction within

H. Buhl, director of Home a year for a new edifice at its Missions of the synod. Both present site, the pastor said. A n n u n c i a t i o n Lutheran are of Columbus. Services, begun in Decem-The organizing pastor, the ber, 1960, in Masonic Temple

- Moved to current location, a former carry-out liquor store in 1962
- Purchased by the Home Mission Board of the Ohio Synod
- First service in this building was on April 1, 1962
- Church officially organized on June 10, 1962



#### Ohio Synod (LCA)

- Formed in September 1962
- Comprised of 337 congregations and 390 ministers
- Advent Evangelical Lutheran Church was the first to be received into the new synod sponsored by the Board of American Missions of the United Lutheran Church on September 14, 1962



#### A New Church

- "Mid-century design, influenced by Usonian architecture, is unusual in that it employs the screen sub-style of modern – a style more often reserved for office rather than ecclesiastical buildings." – The Making of Cleveland's Black Suburb in the City: Lee-Seville & Lee – Harvard
- Cost of \$145,000
- Architects Whitley & Whitley, Inc.

### WHITLEY/WHITLEY ARCHITECTS AND PLANNERS, LLC.

Whitley/Whitley, LLC. is a firm of architects and planners established in 1963 whose work is focused on urban areas. The firm, consequently, has extensive experience in addressing in planning and design terms the problems associated with redeveloping, building and rehabilitating urban communities and public facilities.

Whitley/Whitley LLC., has been responsible for designing a wide range of type and scale of public facilities including offices, schools, jails, vehicle maintenance and storage facilities, museums, libraries, post offices and mass transit facilities and has provided design services for buildings representing a range of construction costs.



#### Family of Architects and Planners



#### William and James Whitley

- First African American twin brothers registered as architects in the State of Ohio
- One of the oldest African American Architectural firms still in practice in the State of Ohio with over 60 years of design excellence.
- Firm established in 1963 by James Whitley

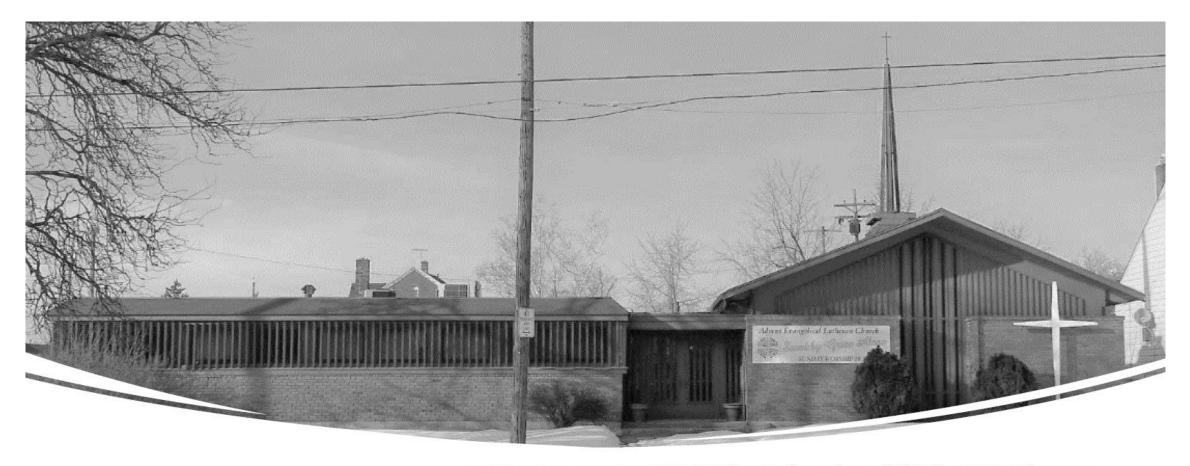
#### R. Joyce Whitley

- First African-American woman City Planner & Urban Designer in the United States (Chicago, 1963)
- Roosevelt Island Housing Community
- Chief Planning Advisor for the Model Cities Administration
- Cleveland Planning Commission (1975 1976)

#### Scott Whitley

- Second Generation Architect
- President of Whitley/Whitley Architects 2009 Present





Significance of Advent Lutheran Church

- Given an opportunity from the church (Advent Lutheran Church) in their community
- The first Whitley/Whitley project
- Allowed them to take a leap of faith and start a business
- Helped catapult Whitley/Whitley to its future success

### 

#### Selected Architectural Projects:

- Tower City "The Avenue", Cleveland, Ohio
- Gateway "Progressive Field", Cleveland Guardians Stadium, Cleveland, Ohio
- Cleveland State University Clock Tower, Cleveland, Ohio
- Cleveland State University Wolstein Center, Cleveland, Ohio
- Jackson Park Terrace Highrise Towers, Chicago, Illinois
- Kent State University Fashion Museum, Kent, Ohio
- Cleveland Public Library Lee Harvard Branch, Cleveland, Ohio
- John F. Kennedy High School Recreation Center, Cleveland, Ohio
- Cleveland Clinic Guesthouse Hotel, Cleveland, Ohio



### 

#### Selected Planning Projects:

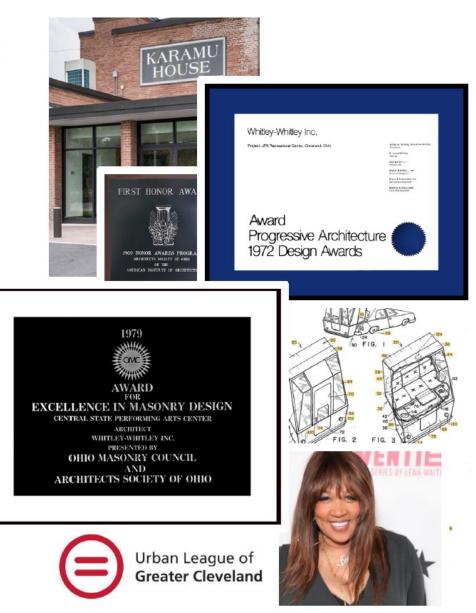
- Roosevelt Island Housing Community, New York, New York
- New Town In Town, Gary Indiana
- Master Plan Northside Preservation Group, Saint Louis
- Master Plan for the Civic Center, Atlanta, Ga.
- Master Facilities Plan for NASA Lewis Research, Cleveland, Ohio
- Master Plan Carver Estates, Cleveland, Ohio
- Six Year Housing Plan & Program, Gary, Indiana

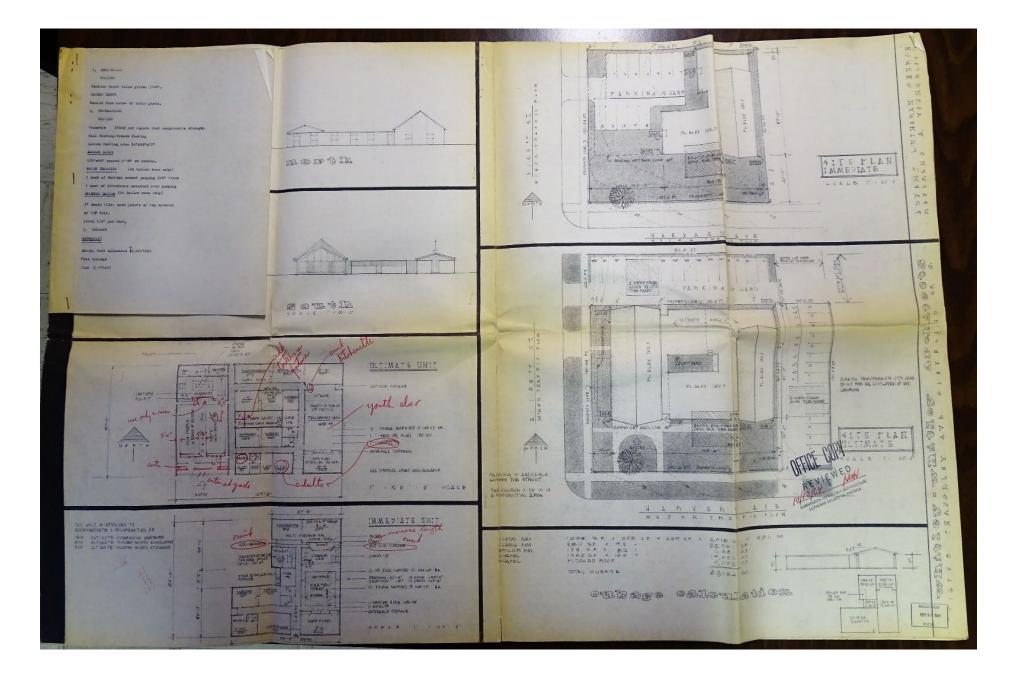


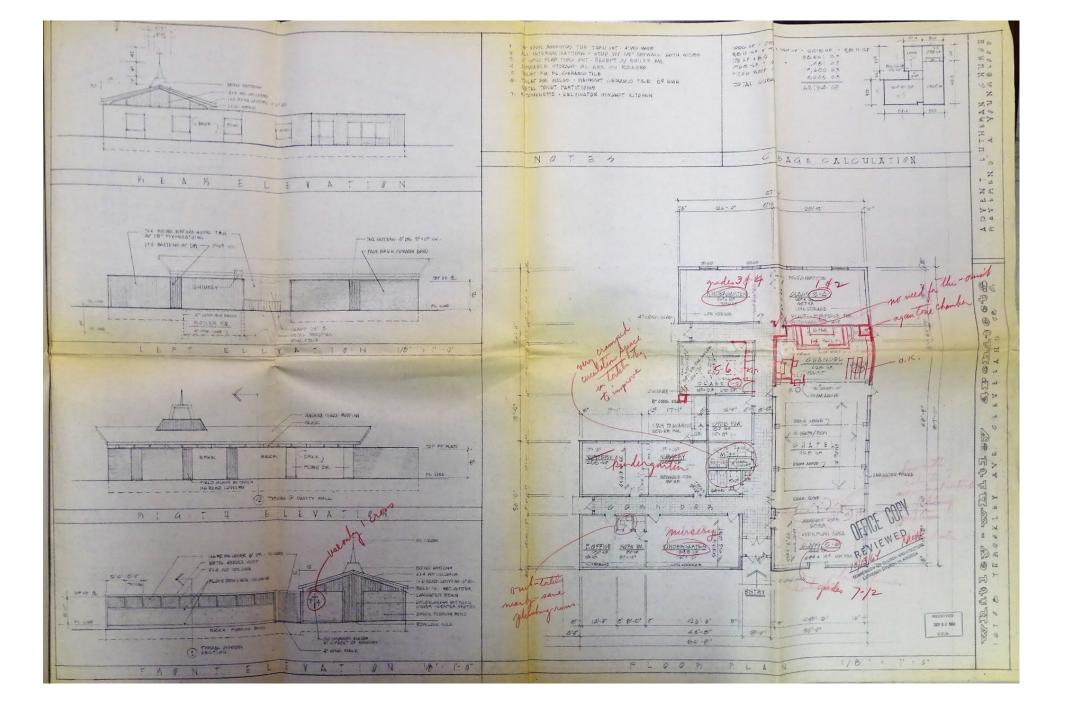
#### Some Notable Achievements

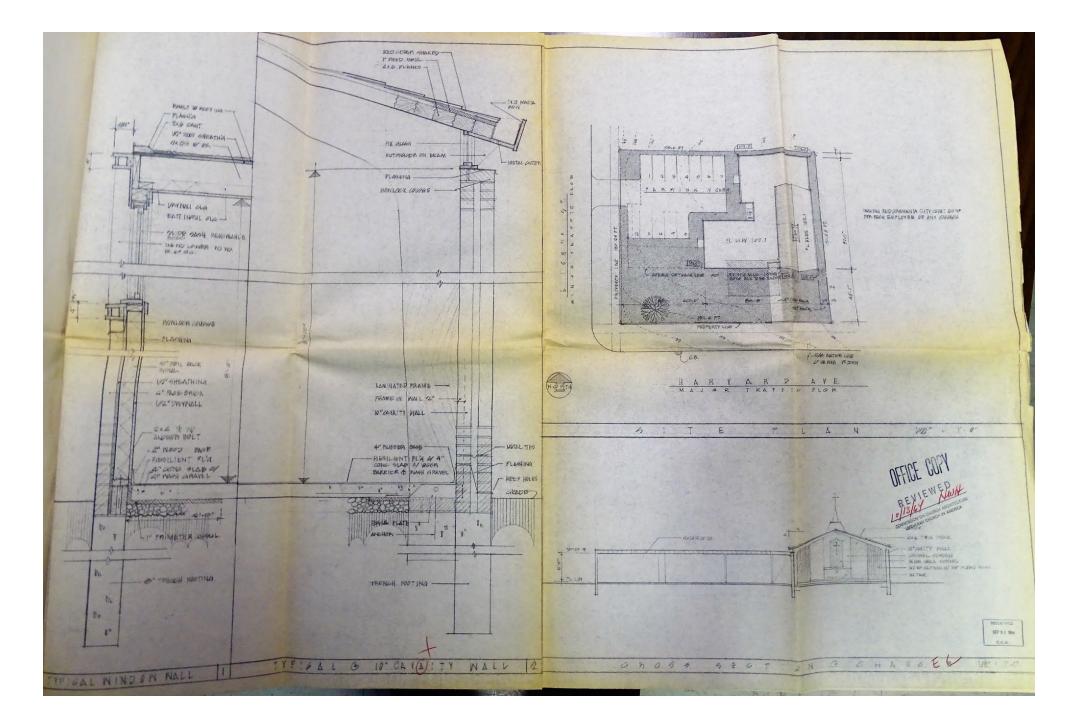
#### Recognized for Architectural Design Excellence

- Two (2) time winner of the International Progressive Architecture Design Competition Award
- Winner of the Architects Society of Ohio Honor Award (Multiple Awards)
- Winner of the Excellence in Masonry Design Award (Multiple Awards)
- Winner of the Design for a New Decade Award
- OAMAE Design Award
- William Whitley Headed the Cleveland Housing Division of Operation PUSH during the housing crisis of the mid-1970's
- James Whitley Served as President of the Urban League of Greater Cleveland (1970's)
- The Whitley Family was named, "1972 Family of the Year" by the Urban League of Greater Cleveland
- William and James Whitley Inventors who hold eight (8) U.S. Patents
- R. Joyce Whitley Playwright of the theatrical play, "Dreams of Callahan" performed at Karamu House (1990)
- R. Joyce Whitley Chief Planner for the United States Department of Housing and Urban Development (1967 – 1968)
- William Whitley Father of Actress/Comedian Kym Whitley, winner of 2022 NAACP Image Award







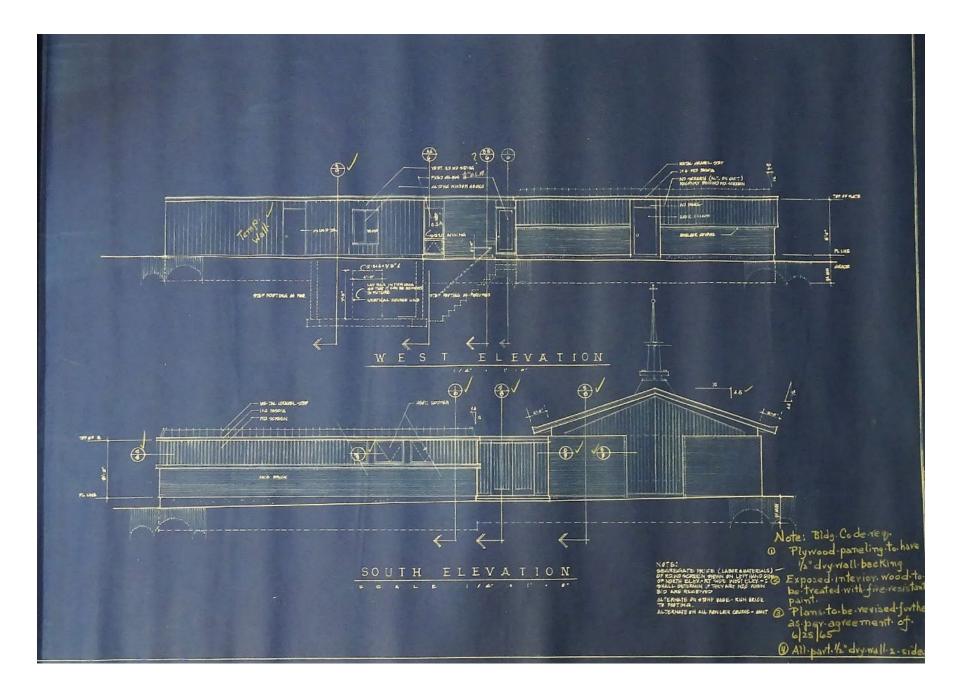


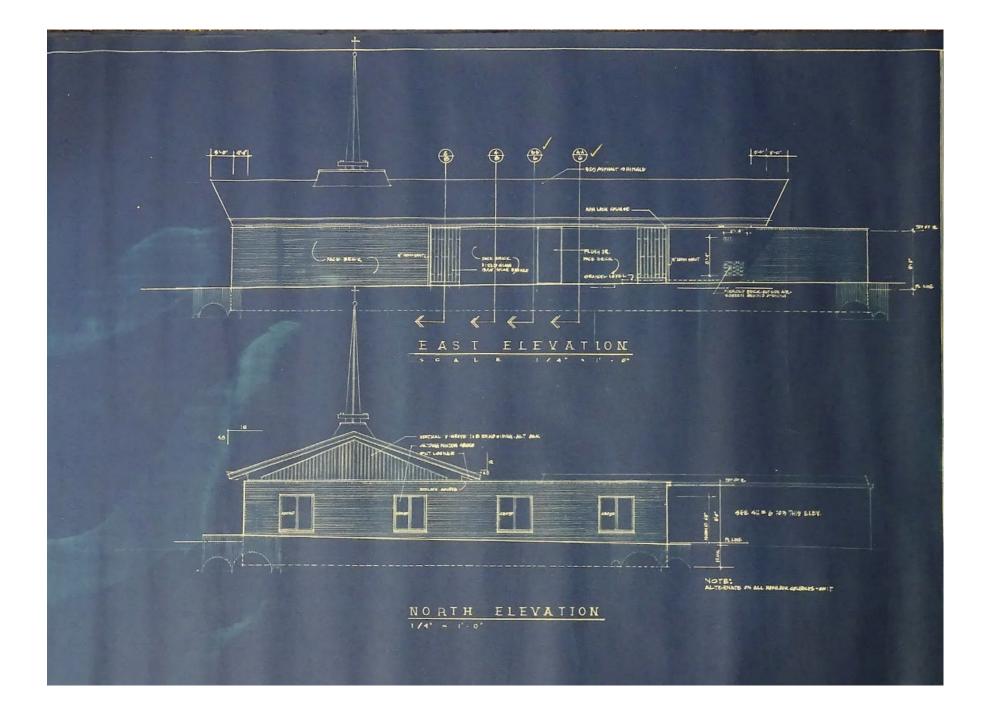
## Groundbreaking: July 7, 1965

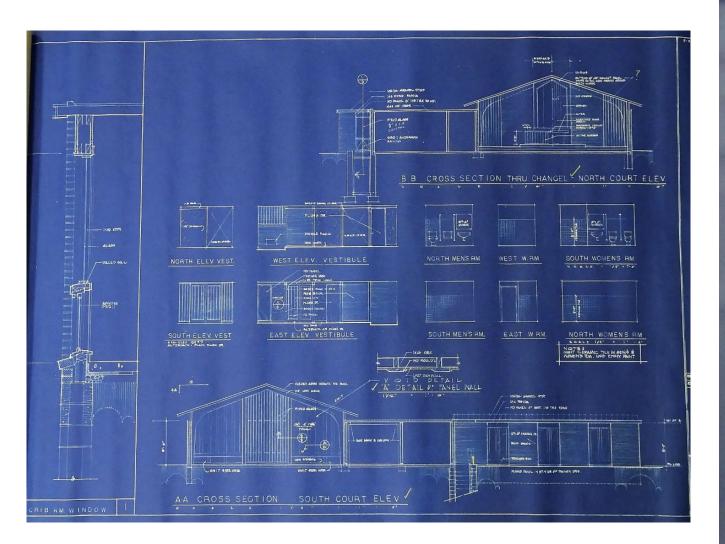


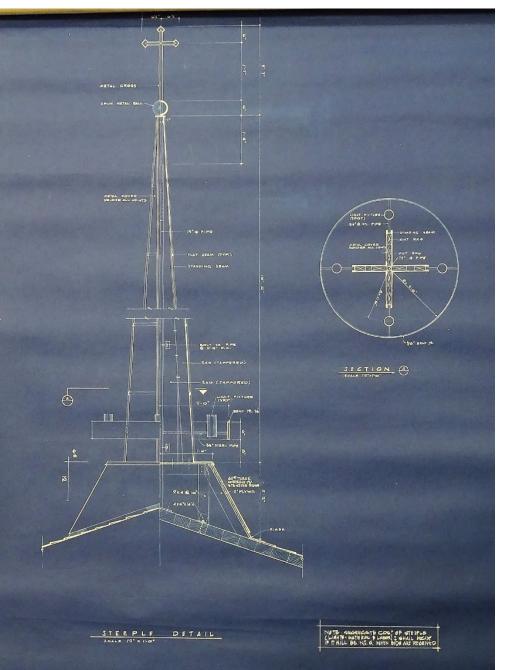












## First Service: December 12, 1965

















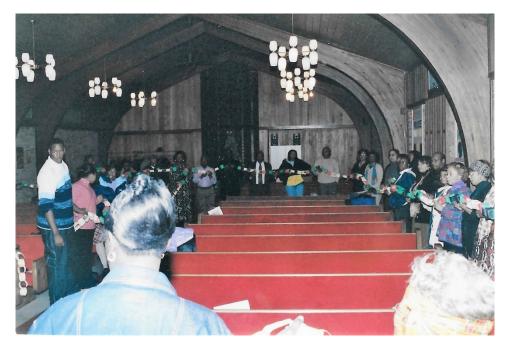








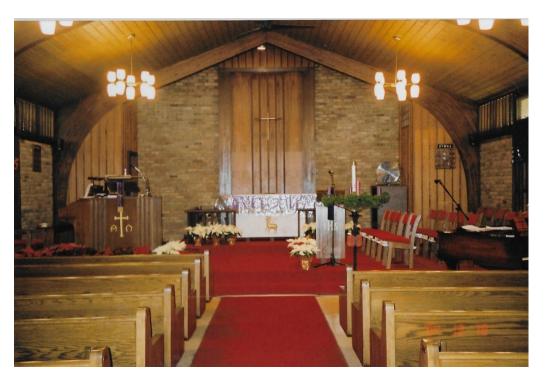














## Significance

- Its character, interest or value is part of the development, heritage or cultural characteristics of the City, State or the United States.
- Its identification is with a person who significantly contributed to the culture and development of the City.
- The historic property exemplifies the cultural, economic, social or historic heritage of the City.
- The historic property is identified with the work of a master builder, designer, architect, engineer or landscape architect whose work has influenced the development of the area, community, state or nation.
- The historic property embodies elements of architectural design, detail, materials, or craftsmanship which represent a significant architectural innovation.
- The historic property relates to other distinctive areas which are eligible for preservation activities, based on a historic, cultural, or architectural motif.
- The historic property's location or its singular physical characteristics represent the establishment or are a familiar visual feature of a neighborhood, community or City.

# Thank you

### **Cleveland Landmarks Commission**

### **Administrative Reports**



### **Cleveland Landmarks Commission**

## Adjournment



March 24, 2022

#### **Cleveland Landmarks Commission**

