City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

AGENDA
BOARD OF BUILDING STANDARDS/
ARCHITECTURAL BOARD OF REVIEW/SIGN REVIEW

PRE-REVIEW MEETING
CITY OF LAKEWOOD
12650 DETROIT AVENUE
EAST CONFERENCE ROOM
FEBRUARY 6, 2025
4:00 P.M.

REVIEW MEETING
CITY OF LAKEWOOD
12650 DETROIT AVENUE
AUDITORIUM
FEBRUARY 13, 2025
5:30 P.M.

1. ROLL CALL
2. APPROVE THE MINUTES OF THE JANUARY 9, 2025 MEETING
3. OPENING REMARKS

OLD BUSINESS

SIGN REVIEW

4. Docket No. 09-77-24 — 11728 Detroit Ave.
   Lake Erie International High School

   ( ) Approve
   ( ) Deny
   ( ) Defer

   Shawn Warren
   Erie deSign Co. Inc.
   16504 Detroit Ave.
   Lakewood, OH 44107

   Applicant proposes signage on the top of the front of the building, as well as vinyl window graphics and rear parking signage. (Page 6)

OLD BUSINESS

ARCHITECTURAL BOARD OF REVIEW

5. Docket No. 12-118-24 (R) 14006 Clifton Blvd.

( ) Approve
( ) Deny
( ) Defer

Mohammad Musleh
27941 Property LLC
27941 Hilliard Blvd.
Westlake, OH 44145

Applicant proposes the refacing of a stucco finished exterior with stone veneer. (Page 10)

6. Docket No. 12-119-24 (C) 16306 Detroit Ave.
Jersey Mike's Subs

( ) Approve
( ) Deny
( ) Defer

Steven Minnich
NE OHIO Subs LLC
63 S. Harding Rd.
Columbus, OH 43209

Applicant proposes a fenced outdoor dining area on the patio. (Page 21)

NEW BUSINESS

SIGN REVIEW

7. Docket No. 02-06-25 15613-B Detroit Ave.
Funktiniland

( ) Approve
( ) Deny
( ) Defer

Shawn Warren
Erie deSign Co. Inc.
16504 Detroit Ave.
Lakewood, OH 44107

Applicant proposes a projecting sign over the door and window graphics. (Page 30)

8. Docket No. 02-07-25 15315 Detroit Ave.
Higher Heights Fitness

( ) Approve
( ) Deny
( ) Defer

Kathy Clarke
Ace Lighting Services
1260 Moore Rd., Suite H
Avon, OH 44011

Applicant proposes an illuminated wall sign and vinyl window graphics. (Page 36)

9. Docket No. 02-08-25 — 17625 Detroit Ave.
Sofia's Kitchen & Bar

( ) Approve
( ) Deny
( ) Defer

Shawn Warren
Erie deSign Co. Inc.
16504 Detroit Ave.
Lakewood, OH 44107

Applicant proposes a business sign with logo above the window and vinyl window graphics. (Page 48)

10. Docket No. 02-09-25 — 13633 Madison Ave.
Law Office

( ) Approve
( ) Deny
( ) Defer

Paul Lange
PBC Banners & Signs Inc. dba Signarama N.O.
26747 Brookpark Rd. Ext.
North Olmsted, OH 44070

Applicant proposes signage in the band sign. (Page 55)

11. Docket No. 02-10-25 — 17008-A Madison Ave.
The Parlour

( ) Approve
( ) Deny
( ) Defer

Steven Foster
The Sign & Graphics Firm, LLC
14837 Detroit Ave., Ste. 195
Lakewood, OH 44107

Applicant proposes re-facing of existing blade signs and window graphics. (Page 60)

ARCHITECTURAL BOARD OF REVIEW

12. Docket No. 02-11-25 (R) — 1515 St. Charles Ave.

( ) Approve
( ) Deny
( ) Defer

Brian Limkemann
House to Home Cleveland, LLC
34909 Timberview Dr.
Avon, OH 44011

Applicant proposes to convert a three-season room to year-round living space and to install new siding on the entire home. (Page 63)

13. Docket No. 02-12-25 (R) — 830 Beach Rd.

( ) Approve
( ) Deny
( ) Defer

Daniel Margulies
Daniel Margulies Co. Inc.
1210 Chase Ave.
Lakewood, OH 44107

Applicant proposes a two-story addition to an existing residence. (Page 77)

14. Docket No. 02-13-25 (C) 1360 W. 117th St.
Flower Child

( ) Approve
( ) Deny
( ) Defer

Joseph V. Linek
Linek Studio
14095 Country River Ln.
Newbury, OH 44065

Applicant proposes exterior renovations to the east and north elevations. (Page 86)

15. Docket No. 02-14-25 (C) 18605 Detroit Ave.
Standard Wellness

( ) Approve
( ) Deny
( ) Defer

Joseph Andulics
Standard Wellness
425 Literary Rd., Stel 100
Cleveland, OH 44113

Applicant proposes exterior renovations for a new business. (Page 102)

16. Docket No. 02-15-25 (R) 2230 Brown Rd.

( ) Approve
( ) Deny
( ) Defer

Forest Sluzewski
Dialogue Collaborative
P.O. Box 1953
Cleveland, OH 44106

Applicant proposes a porch addition and reconstructed garage. (Page 178)

17. Docket No. 02-16-25 (C) 17415 Detroit Ave.
Garden Bar

( ) Approve
( ) Deny
( ) Defer

Nate Bailey
Hara Architects
34 Ravenna St.
Hudson, OH 44236

Applicant proposes an outdoor covered bar at the southeast corner. (Page 192)

COMMUNICATION

18. Docket No. 02-17-25

14740 Lakewood Heights Blvd.
Winterhurst Ice Arena

( ) Approve
( ) Deny
( ) Defer

City of Lakewood
12650 Detroit Ave.
Lakewood, OH 44107

The City of Lakewood is conducting renovation of the Winterhurst Ice Arena - including an exterior addition - to provide contemporary locker room facilities, indoor training space, and ADA accessibility improvements. (Page 205)

ADJOURN

"Individuals with disabilities who require accommodations for participation in meetings must request accommodations at least 3 business days ahead of the scheduled meeting. Contact Michelle Nochta at (216) 529-5906 michelle.nochta@lakewoodoh.gov ."

BOARD OF BUILDING STANDARDS
ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

12650 Detroit Avenue ● (216) 529-6630 ● FAX (216) 529-5907 ● www.lakewoodoh.gov

Application Cover Page

Docket No.: 09-77-24

Permit No.: BBS24-000090

Applicant Name: Shawn Warren, Erie deSign Co.

Project Address: 11728 Detroit Ave.

Project Name: Lake Erie International High School

Project: Applicant proposes signage on the top of the front of the building and window signage.

5' DIA

Color print laminated
to 1/8" maxx Metal with
1" pvc re-enforcment backing

$799+ $11608
includes installation

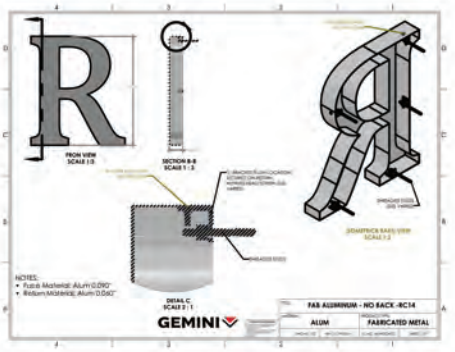
Text 1" Thick
formed aluminum letters painted
and mounted to 1/8" PVC/ Aluminum
Maxx Metal. Each panel to be machine
screwed to the existing sign frame on building.

42' X 24"

20"text

LAKE ERIE INTERNATIONAL HIGH SCHOOL





41" x 52" h

2 sided sign mounted to existing frame
Maxx Metal with color prints $680 plus install est $400



2) 42" x 72" & 3) 39" X 72"

To replace 5 windows match existing graphics $250 ea x 5= $1250 + install$300

frontage 50' x 33' = 1650 sq

frontage 62' x 22'= 1364 sq.

ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT:	JOB #:	DATE:
LAKE ERIE INTERNATIONAL HIGH SCHOOL		

ADDRESS:	SALESPERSON/ DESIGNER:	DATE:
11724 Detroit Ave.		

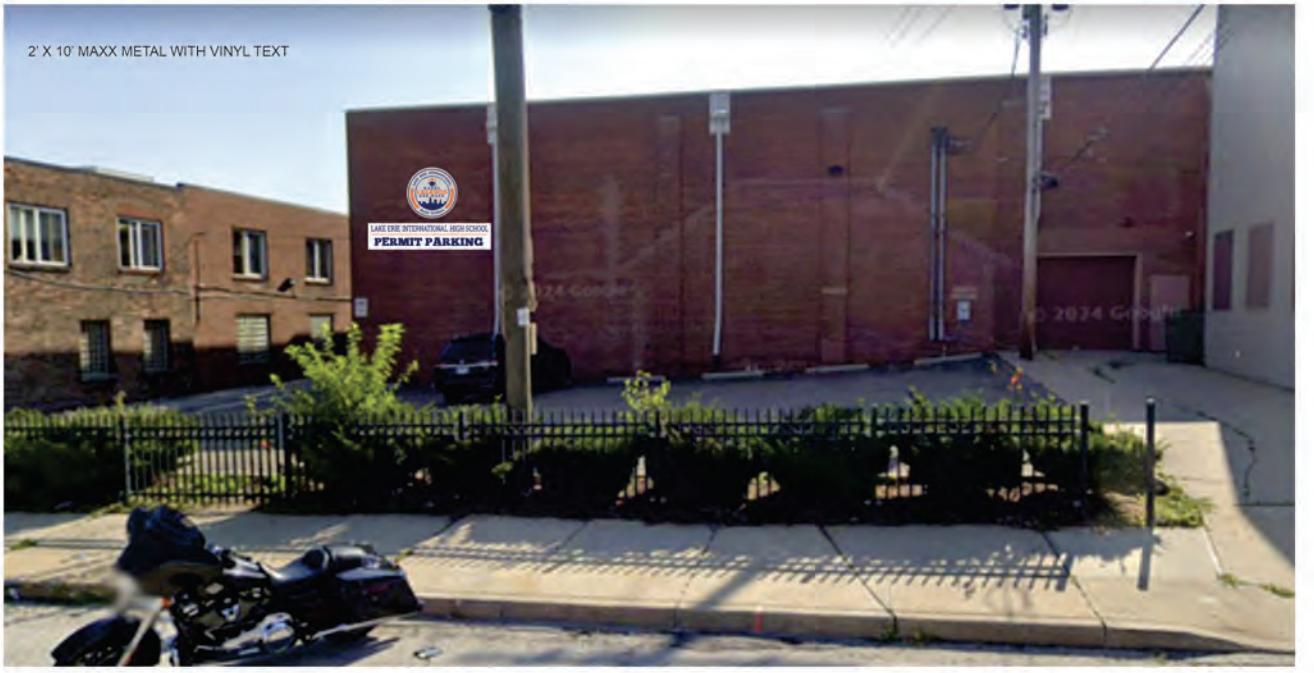
REVISION HISTORY: DATE:	CHANGES MADE:	CLIENT SIGNATURE OF APPROVAL	DATE:

48” dia. logo
on 1/8” maxx metal
$400

LAKE ERIE INTERNATIONAL HIGH SCHOOL

PERMIT PARKING

2’ x 10’ 1/8” thick Max Metal with color print face $1099
including installation for both



Parking around the corner. The Sign will be mounted with “Tapcon” screws into the brick mortar . Screw heads will be covered with print material.

ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT:	JOB #:	DATE:
LAKE ERIE INTERNATIONAL HIGH SCHOOL		

ADDRESS:	SALESPERSON/ DESIGNER:	DATE:
11724 Detroit Ave.		

REVISION HISTORY: DATE:	CHANGES MADE:	CLIENT SIGNATURE OF APPROVAL	DATE:







cut line

2) 42" x 72" & 3) 39" X 72"
*Prints needed to block out office space visibility from the street.



To replace 5 windows match existing graphics $250 ea x 5= $1250 + install $300

frontage 50' x 33' = 1650 sq

ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT:	JOB #:	DATE:
LAKE ERIE INTERNATIONAL HIGH SCHOOL		
ADDRESS:	**SALESPERSON/ DESIGNER:**	**DATE:**
11724 Detroit Ave.		

REVISION HISTORY:

DATE:	CHANGES MADE:

CLIENT SIGNATURE OF APPROVAL **DATE:**

BOARD OF BUILDING STANDARDS
ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

12650 Detroit Avenue ● (216) 529-6630 ● FAX (216) 529-5907 ● www.lakewoodoh.gov

Application Cover Page

Docket No.: 12-118-24

Permit No.: BBS24-000133

Applicant Name: Mohammad Musleh, 27491 Property LLC

Project Address: 14006 Clifton Blvd.

Project Name: n/a

Project: Applicant proposes the refacing of a stucco finished exterior with stone veneer.










14006








LAKEWOOD OHIO
www.onelakewood.com


LAKEWOOD OHIO
www.onelakewood.com

BOARD OF BUILDING STANDARDS
ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

12650 Detroit Avenue ● (216) 529-6630 ● FAX (216) 529-5907 ● www.lakewoodoh.gov

Application Cover Page

Docket No.: 12-119-24

Permit No.: BBS24-000137

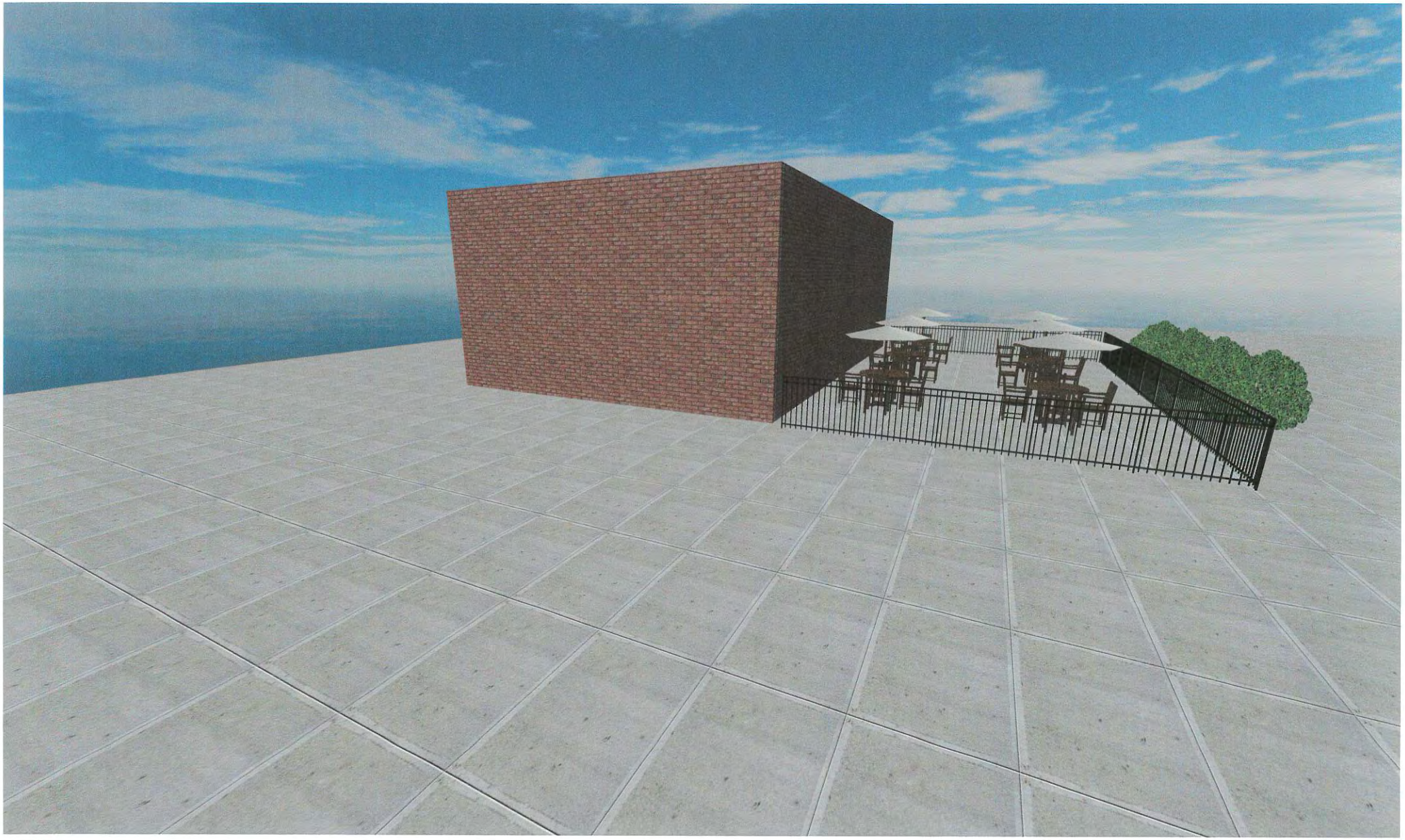
Applicant Name: Steven Minnich, NE OHIO Subs LLC

Project Address: 16306 Detroit Ave.

Project Name: Jersey Mike's Subs

Project: Applicant proposes a fenced outdoor dining area on the patio.











Share Ask

tems You Might Like

SUPERIOR FENCE & RAIL
Where Quality Matters!

Proposal for Fencing Installation

AFA MEMBER
American Fence Association, Inc.

PRODUCT SPECIFICATIONS:

4'H Black 300 Sterling (C): 59 LF & 2 Gates.
Specifications: Post: 2" Sq., Rail: 1-1/2"x1", Picket: 3/4" Sq.

JOB OPTIONS:

(2) 4ft SS Standard Gate, Standard Latch

JOB NOTES:

No Returns for Special Order Product.

Approximate Start Date: 11/15/2024 **Approximate Finish Date:** 11/21/2024	**All dates are approximate and subject to change based on unforeseen events including inclement weather, permitting delays, change orders, and manufacturing delays. See terms and conditions for full details.**

Acceptance and Authorization: By signing below, you authorize Superior to perform the installation and/or order and arrange for the delivery of special order merchandise, including special order merchandise that may be custom made, as specified in this Agreement. You understand and agree that this Agreement constitutes the entire understanding between you and Superior and that there have been no oral or written representations or agreements made to you by Superior but that if there are you agree that this Agreement expressly supersedes them.

Do not sign if blank or incomplete. By signing, you acknowledge that you have read, understand, and accept this Agreement in its entirety. You further acknowledge receiving a complete copy. Keep it to protect your legal rights.



Wabash Valley SU2H38P Sullivan 42" Round Portable Powder Coated Steel Mesh Outdoor

☐ No

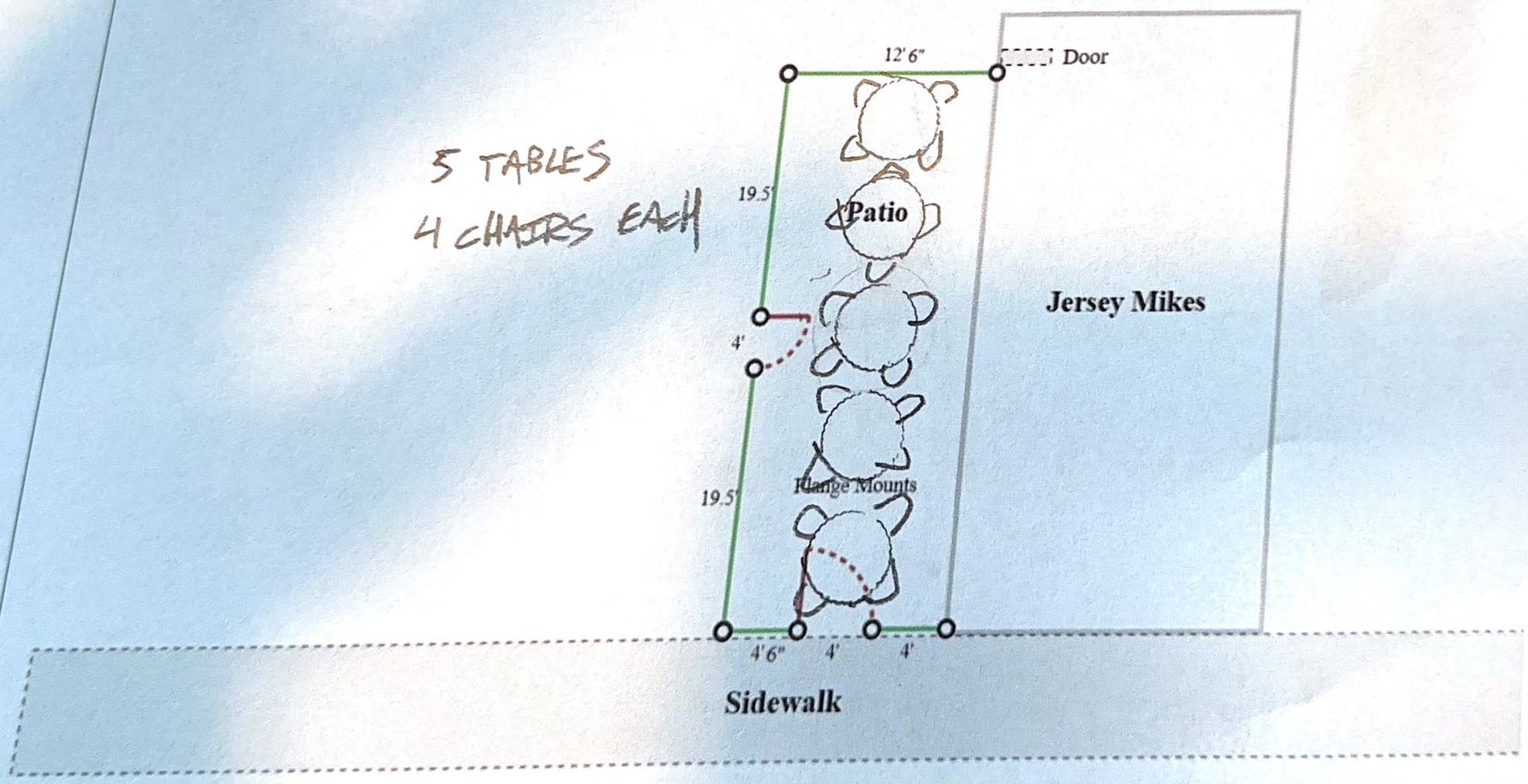
(Superior Fence & Rail requires copy of permit before installation)

☒ No

APPROXIMATE LAYOUT

FENCE FOOTAGE CONTAINED IN THIS PROPOSAL IS APPROXIMATE BASED ON THE FIELD MEASUREMENT, FINAL PRICE WILL BE ADJUSTED BASED ON ACTUAL FENCE FOOTAGE USED, AS SET FORTH IN TERMS AND CONDITIONS)

FENCE DIAGRAM



4'H Black 300 Sterling (C)

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-06-25

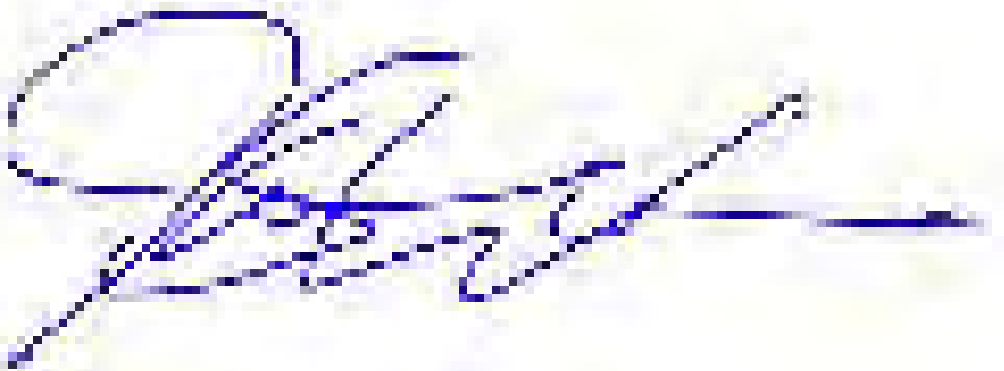
Permit No.: BBS24-000147

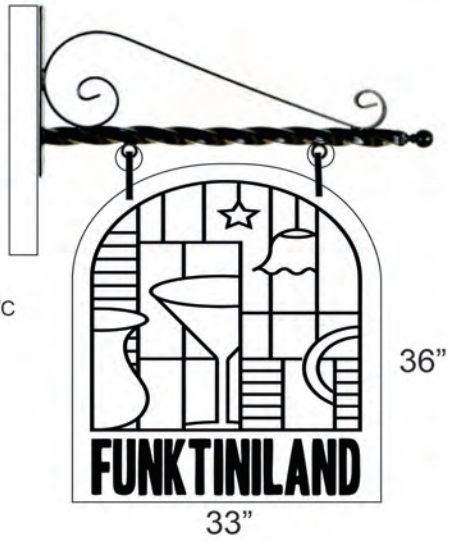
Applicant Name: Shawn Warren, Erie DeSign Co. Inc.

Project Address: 15613-B Detroit Ave.

Project Name: Funktiniland

Project: Applicant proposes a projecting sign over the door and window graphics.





2 sided Blade Sign
1/4" thick Maxx Metal/PVC
8.25 sq. ft. x 2sides
16.5 sq. total

STORE FRONT
AS IS NOW

8" x 72" vinyl text
4 sq ft. total

OHIO ARTIST COLLECTIVE



ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

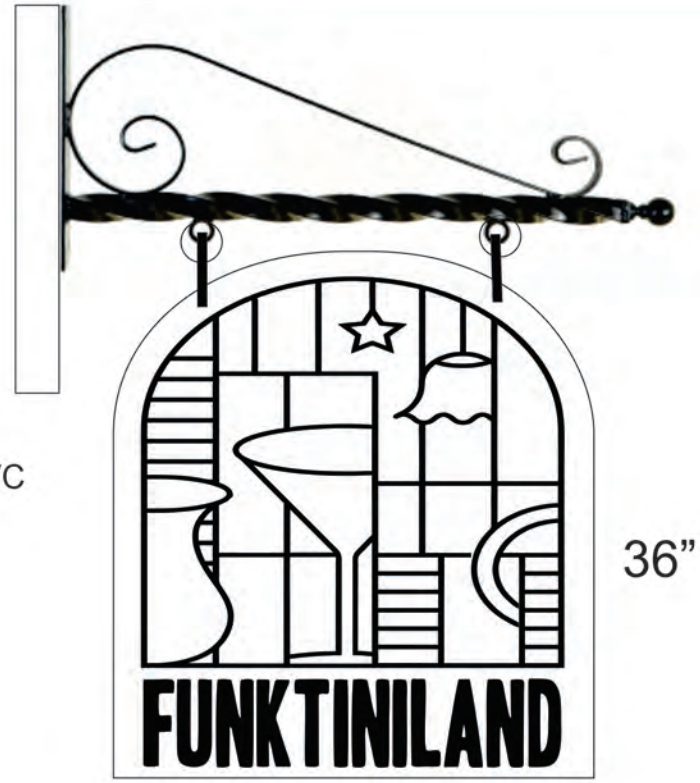
CLIENT:	JOB #:	DATE:
FunktiniLand		

ADDRESS:	
15613 B Detroit Ave	funktiniland@yahoo.com

REVISION HISTORY:

DATE:	CHANGES MADE:

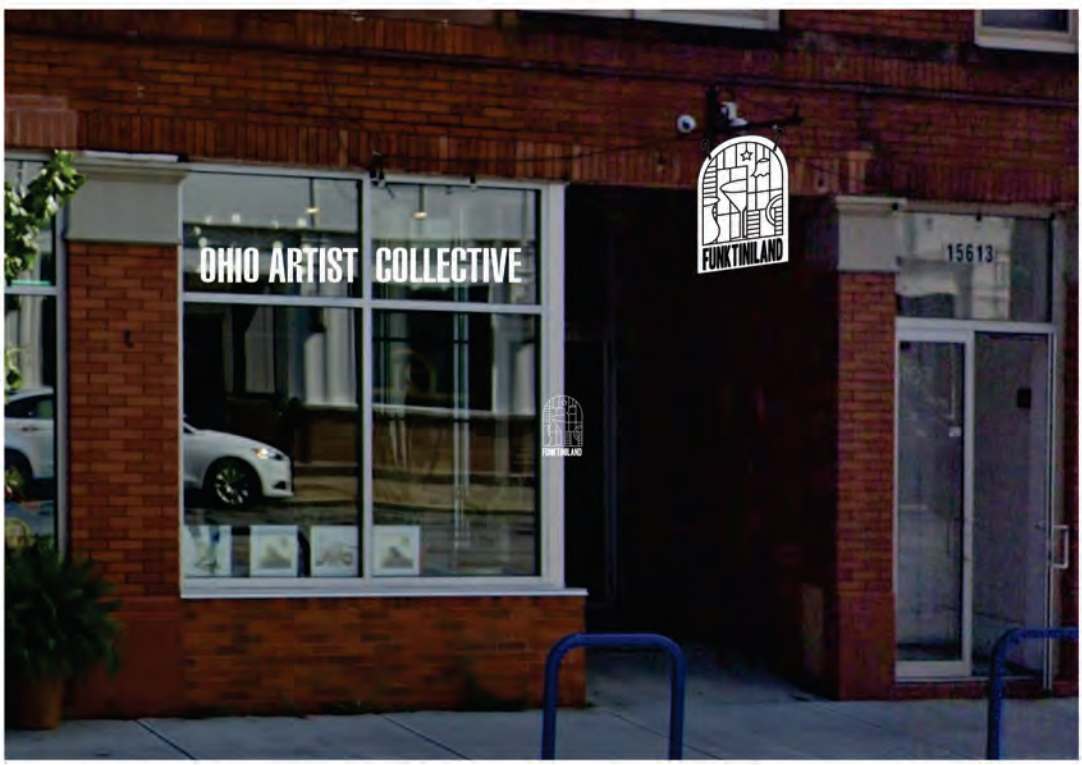
CLIENT SIGNATURE OF APPROVAL DATE:
Beth Keenan



2 sided Blade Sign
1/4" thick Maxx Metal/PVC
8.25 sq. ft. x 2sides
16.5 sq. total

36"

33"



8" x 72" vinyl text
4 sq ft. total

ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT:	JOB #:	DATE:
FunktiniLand		

ADDRESS:	
15613 B Detroit Ave	funktiniland@yahoo.com

REVISION HISTORY:

DATE:	CHANGES MADE:

CLIENT SIGNATURE OF APPROVAL DATE:
Beth Keenan

Case #:

City of Lakewood Division of Housing and Building
12650 DETROIT AVENUE • LAKEWOOD, OH 44107 • (216) 529-6270 • Fax: (216) 529-5930
Building.permits@lakewoodoh.net

Building Permit Application

PROJECT ADDRESS: 15613 B Detroit Ave Suite/Unit #

or **PERMANENT PARCEL NUMBER:** 31325005

PROPERTY CLASSIFICATION: ☐ 1, 2 or 3 Family OR ☐ Commercial (*includes multifamily and condominiums*)

USE DESCRIPTION: *(1-Family, Retail, Restaurant, etc.)* ☐ Change of Use?

PERMIT TYPE: ☐ Building ☐ *Plumbing ☐ *Mechanical ☐ *Electrical ***(complete reverse side)***

RELATED CASES: ☐ Correction Notice ☐ Plan Review ☐ A.B.R. Approval Case Number:

SCOPE OF PERMIT *(Check all that apply)*:

☐ New Primary Structure ☐ Addition ☐ Alteration ☐ Repair ☐ Equip. Replacement ☐ Commercial Sign
☐ Tent or Temporary ☐ Rear Deck ☐ Shed ☐ Pool ☐ Water Controlling ☐ Waterproofing
☐ Commercial Hood ☐ Fire Suppression ☐ Fire Alarm ☐ HVAC ☐ Refrigeration
☐ Demolition ☐ Paving ☐ Storm Sewer ☐ Other *(Please specify)*: Sign

VALUATION:** ***(cost of the work) $ **PROJECT SIZE:** *(in square feet)*

BRIEF DESCRIPTION OF WORK: (Include scope, dimension, location) _____ **DRAIN** _____ **NO DRAIN**

1/4" thick Maxx metal aluminum/pvc composit board 36" h x 33"
bolted to Existing scroll frame
8" x 72" h interior window vinyl

Pekoproperties@gmail.com

PROPERTY OWNER NAME: Landlord- Peter Spirollari Phone: 1 (216) 235-8297
Business Name (if applicable) FunktiniLand Beth Keenan Email: funktiniland@yahoo.com
Mailing Address: 15613 B Detroit Ave City: LAKEWOOD, State: OH Zip: 44107

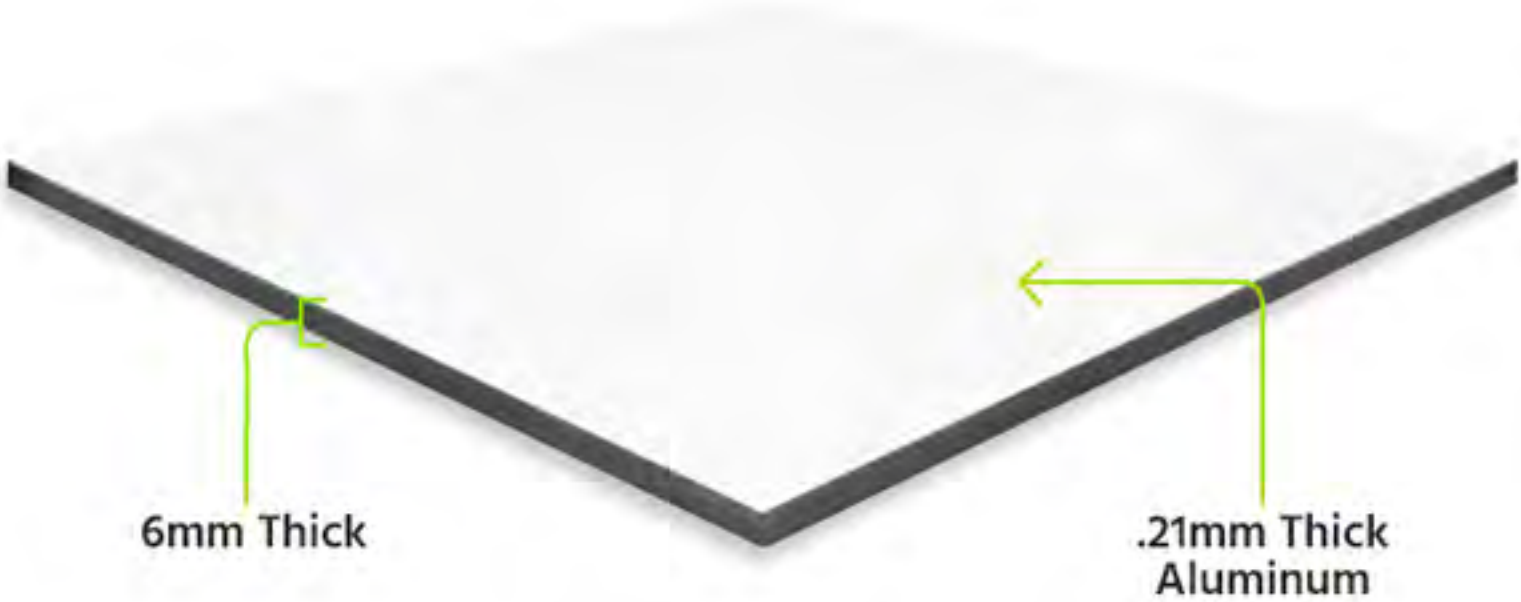
CONTRACTOR NAME: Erie design Shawn Warren Phone: 216-227-0043
License/Reg. No.: on file Email: eriedesign@ameritech.net
Mailing Address: 16504 Detroit Ave City: LAKEWOOD, State: OH Zip: 44107

ARCHITECT/ENGINEER: Phone:
Mailing Address: City: State: Zip:

I hereby certify all information contained in this application is true, accurate and complete to the best of my knowledge. Furthermore, I am the property owner of record; or an authorized representative of the contractor registered with the city of Lakewood listed above and authorized by the property owner to perform the work described. I am primarily responsible for the work described and agree to abide by the applicable provisions of law and building codes adopted by the state of Ohio and the City of Lakewood. All subcontractors working under my direction shall be registered with the City of Lakewood. Perpetuation of fraud or misrepresentation including contractors or property owners obtaining permits on behalf of an unregistered contractor is a violation of LCO §1306.69 and punishable by fines, jail time and revocation of contractor registration.

SIGNATURE OF CONTRACTOR / OWNER — 8-09-24 DATE

Anticipated Completion Date: 9-15-24


6mm Thick
.21mm Thick
Aluminum

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-07-25

Permit No.: BBS25-000001

Applicant Name: Kathy Clarke, Ace Lighting Services

Project Address: 15315 Detroit Ave.

Project Name: Higher Heights Fitness

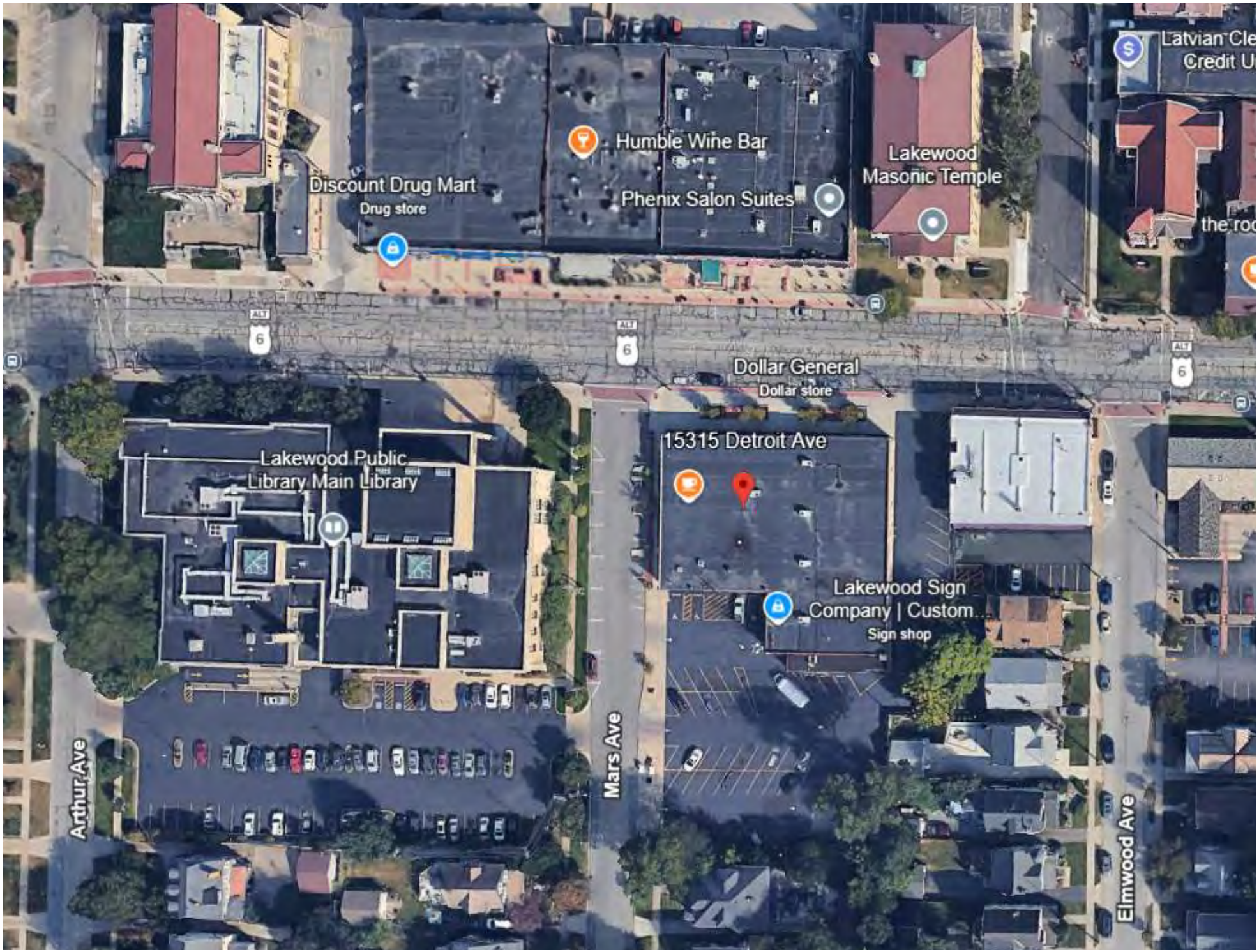
Project: Applicant proposes an illuminated wall sign and vinyl window graphics.

kathy@getlitwithus.com

From: Mitchell Abdallah <mitchblackbird@gmail.com>
Sent: Friday, January 3, 2025 10:18 AM
To: kathy@getlitwithus.com
Subject: Re: Higher Heights Lakewood

Hello Cathy you have my approval for the Higher Heights signage as the long as the city approves. Mitch Abdallah
Sent from my iPhone

> On Jan 2, 2025, at 8:06 AM, kathy@getlitwithus.com wrote:
>
> Morning Mitch, can I please get an approval letter for the signage for Higher Heights Fitness located at 15315 Detroit Ave.
> Need this to submit application to the City.
> Appreciate your help.
>
> Kathy Clarke
> **Ace Lighting Services**
> 1260 Moore Rd. Suite H
> Avon, OH 44011
> **O: 440-695-0367**
> **C: 216-701-2824**


Latvian Cle
Credit U
Humble Wine Bar
Lakewood
Masonic Temple
Discount Drug Mart
Drug store
Phenix Salon Suites
the roo
ALT 6
Dollar General
Dollar store
15315 Detroit Ave
Lakewood Public
Library Main Library
Lakewood Sign
Company | Custom...
Sign shop
Arthur Ave
Mars Ave
Elmwood Ave


SUBWAY

axe signs +wayfinding

California HQ.
Contact: Baz
Email: baz@axesigns.com
Cell: 858-699-7011

Florida HQ.
Contact: Rich Wilde
Email: rich@axesigns.com
Cell: 561-603-1376

HIGHER HEIGHTS

15315 Detroit Ave
Lakewood, OH 44107

Landlord

Client
Kyle Hotz
kylehotz@higherheightsfitness.com

Landlord Approval Date

Client Approval Date

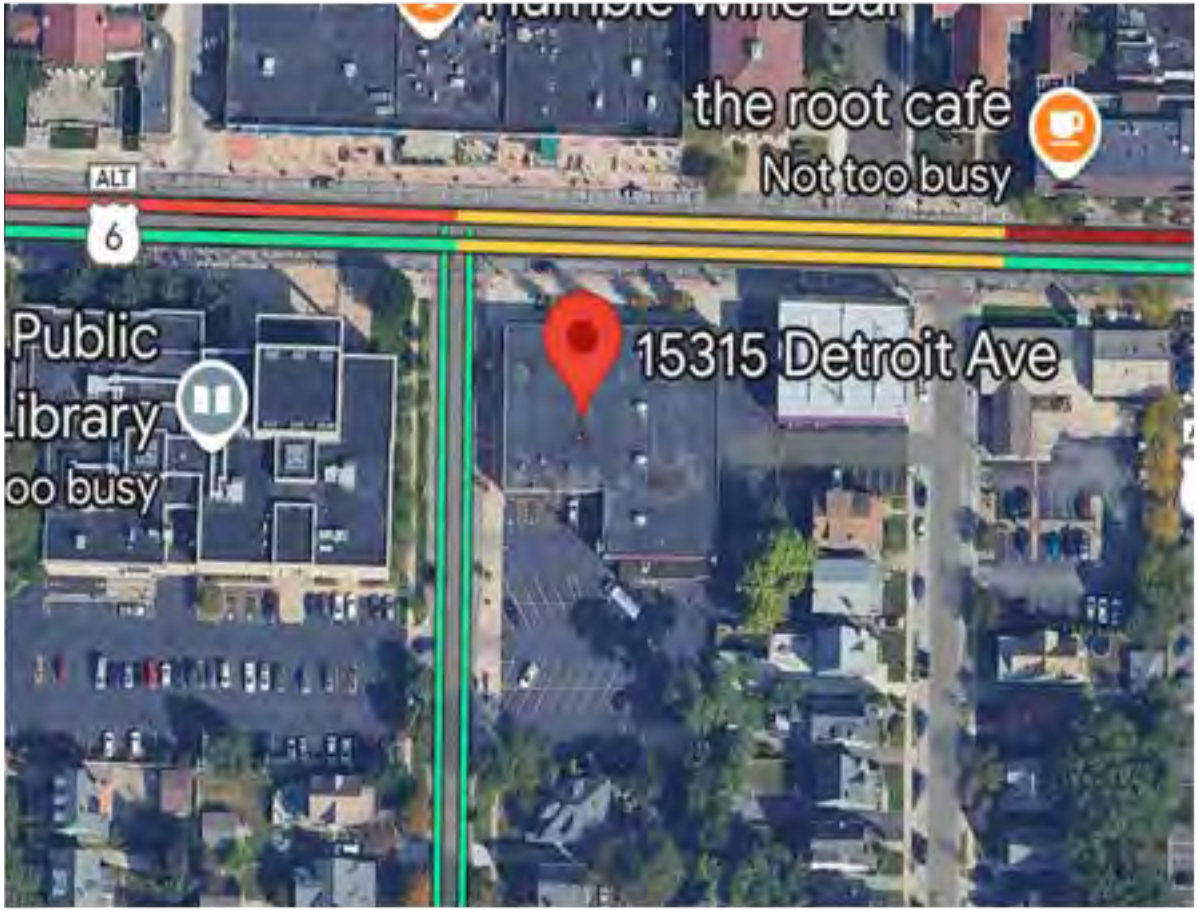
Date: September 25th 2024

Approved As Is | Approved As Noted | Revisions Needed

HIGHER HEIGHTS

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By accepting receipt hereof, the recipient acknowledges and agrees to the foregoing.

Sign type: _____
Drawing Type: _____
Scale: NTS
Drawing Numbrer: _____



scope of work

A. (1) front window vinyl graphic

B. front door vinyl graphic and hours of operation

Personal Training
By Appointment
216-712-6767

Open Gym
MON-FRI
5:30am - 11:00pm
SAT-SUN
7:00am - 6:00pm

C. illuminated channel letter stud mounted wall sign on front elevation

HIGHER HEIGHTS
FITNESS

HIGHER HEIGHTS

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Sign type: _____
Drawing Type: _____
Scale: NTS
Drawing Numbrer: _____

Sheet
A1

Dimensions
Vinyl Window



43.6”

8 sq. ft

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Sign type: _____

Drawing Type: _____

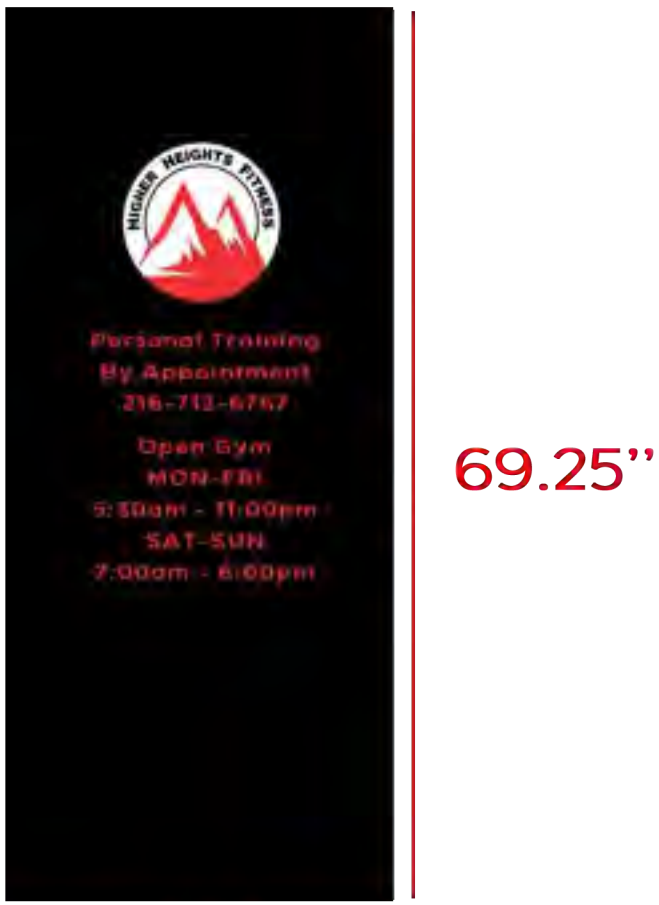
Scale: NTS

Drawing Number: _____

Sheet
B1

Dimensions

Vinyl door waiting
on the correct info.



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By accepting receipt hereof, the recipient acknowledges and agrees to the foregoing.

Sign type: _____
Drawing Type: _____
Scale: NTS
Drawing Numbrer: _____

Sheet
C1

Dimensions



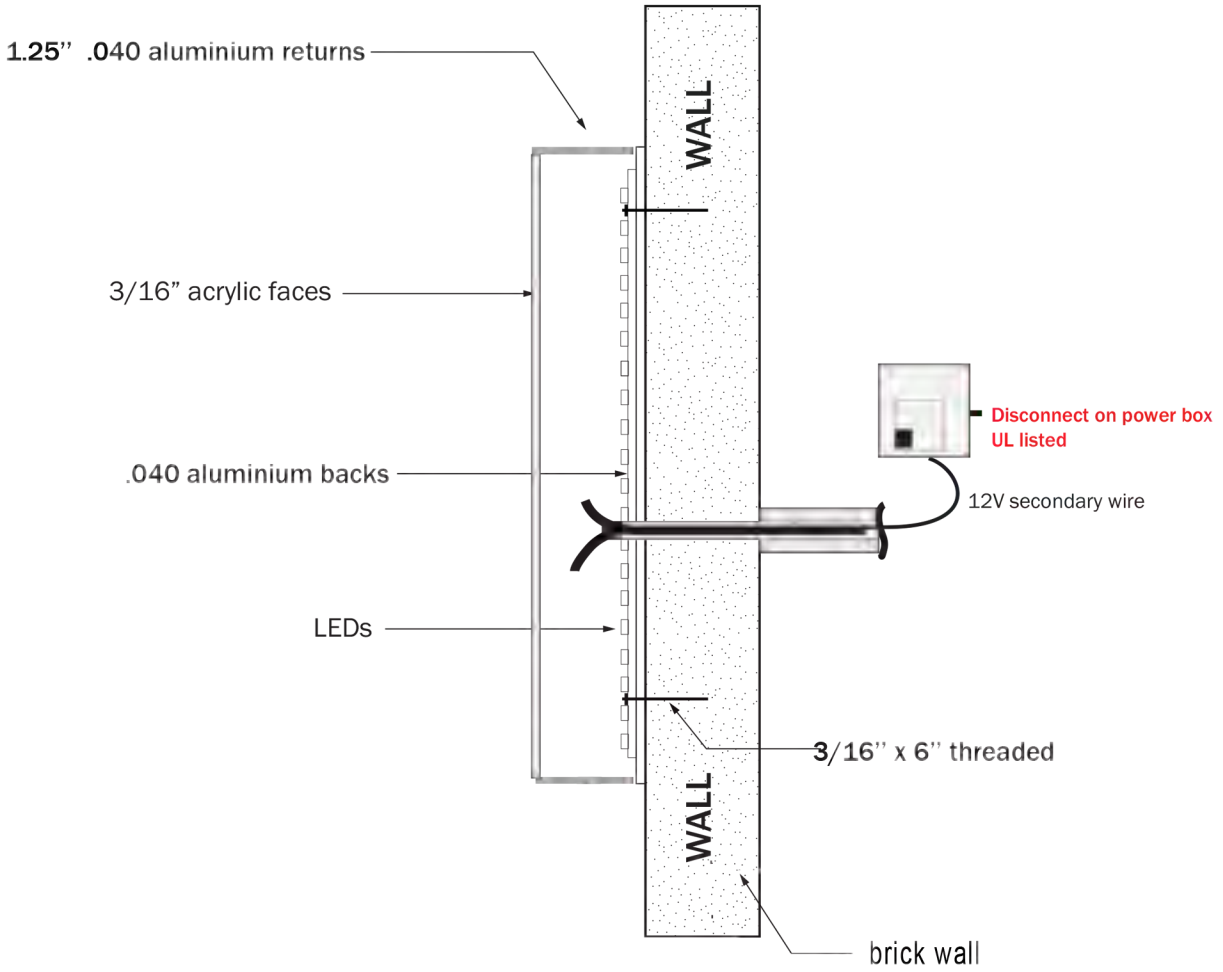
HIGHER HEIGHTS

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By accepting receipt hereof, the recipient acknowledges and agrees to the foregoing.

Sign type: _____
Drawing Type: _____
Scale: NTS
Drawing Number: _____

Sheet
C2

Mounting / Electrical



All components used in the fabrication of our signs are UL certified.

This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electric Code and/or applicable codes. This includes proper grounding and bonding of the sign.

Customer is to provide primary electrical to sign. Power to the sign must be done by a licensed electrical contractor or electrician. Each sign must have: A minimum of one dedicated 120V 20A circuit.

HIGHER HEIGHTS

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By accepting receipt hereof, the recipient acknowledges and agrees to the foregoing.

Sign type: _____
Drawing Type: _____
Scale: NTS
Drawing Numbrer: _____

Sheet
ABC1

Render



DISCLAIMER:
NOT TO SCALE: This illustration is for design concept only. Please refer to final Shop Drawings for true Measurements.
Completed sign may appear different than this conceptual illustration.

HIGHER HEIGHTS

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By accepting receipt hereof, the recipient acknowledges and agrees to the foregoing.

Sign type: _____

Drawing Type: _____

Scale: NTS

Drawing Numbrer: _____

Sheet
ABC2

Render



DISCLAIMER:
NOT TO SCALE: This illustration is for design concept only. Please refer to final Shop Drawings for true Measurements.
Completed sign may appear different than this conceptual illustration.

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-08-25

Permit No.: BBS25-000006

Applicant Name: Shawn Warren, Erie DeSign Co. Inc.

Project Address: 17625 Detroit Ave.

Project Name: Sofia's Kitchen & Bar

Project: Applicant proposes a business sign with logo above the window and vinyl window graphics.





AS IS NOW



ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT: Sofia's Kitchen & Bar

JOB #:

DATE:

ADDRESS: 17625 Detroit Ave

REVISION HISTORY:

DATE: CHANGES MADE:

CLIENT SIGNATURE OF APPROVAL DATE:

Frontage 13'+h x 44' + 9.5' door + 12' side average 853 sq.
572 sq. front and side + 156 side sq. + 125sq. corner door Total 853 sq.





SIGN AREA 25" H X 360" W62.5 SQ. FT
TEXT 40.5 SQ. FT. TOTAL

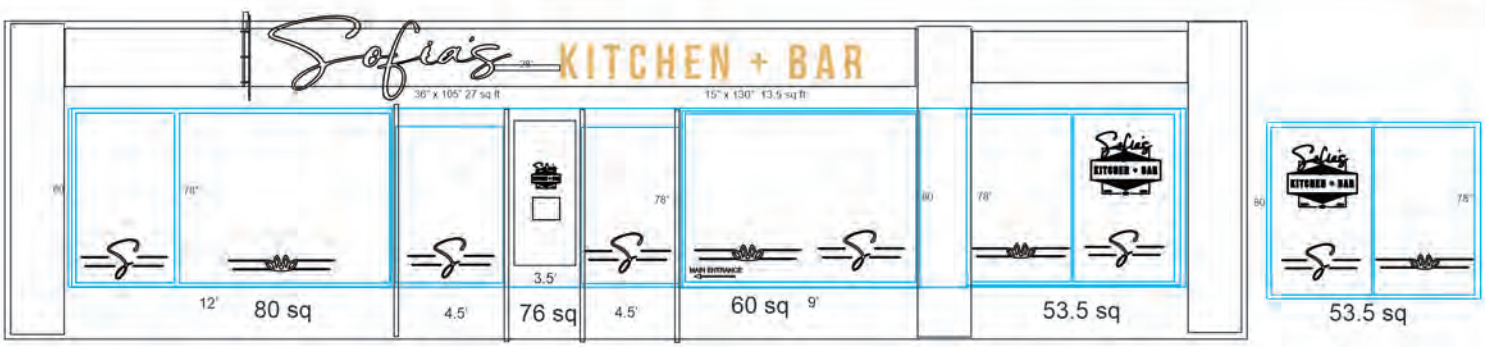
1/2" thick PVC text stud mounted to sign area
LED strip back lighting
Side view

Logo 36" x 105" 27 sq. ft.

text 15" x 130" 13.5 sq. ft.



window graphics
33 SQ TOTAL
windows 269.5 fr +
53.5 side = 323 total



ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT: Sofia's Kitchen & Bar

JOB #:

DATE:

ADDRESS: 17625 Detroit Ave

REVISION HISTORY:
DATE: CHANGES MADE:

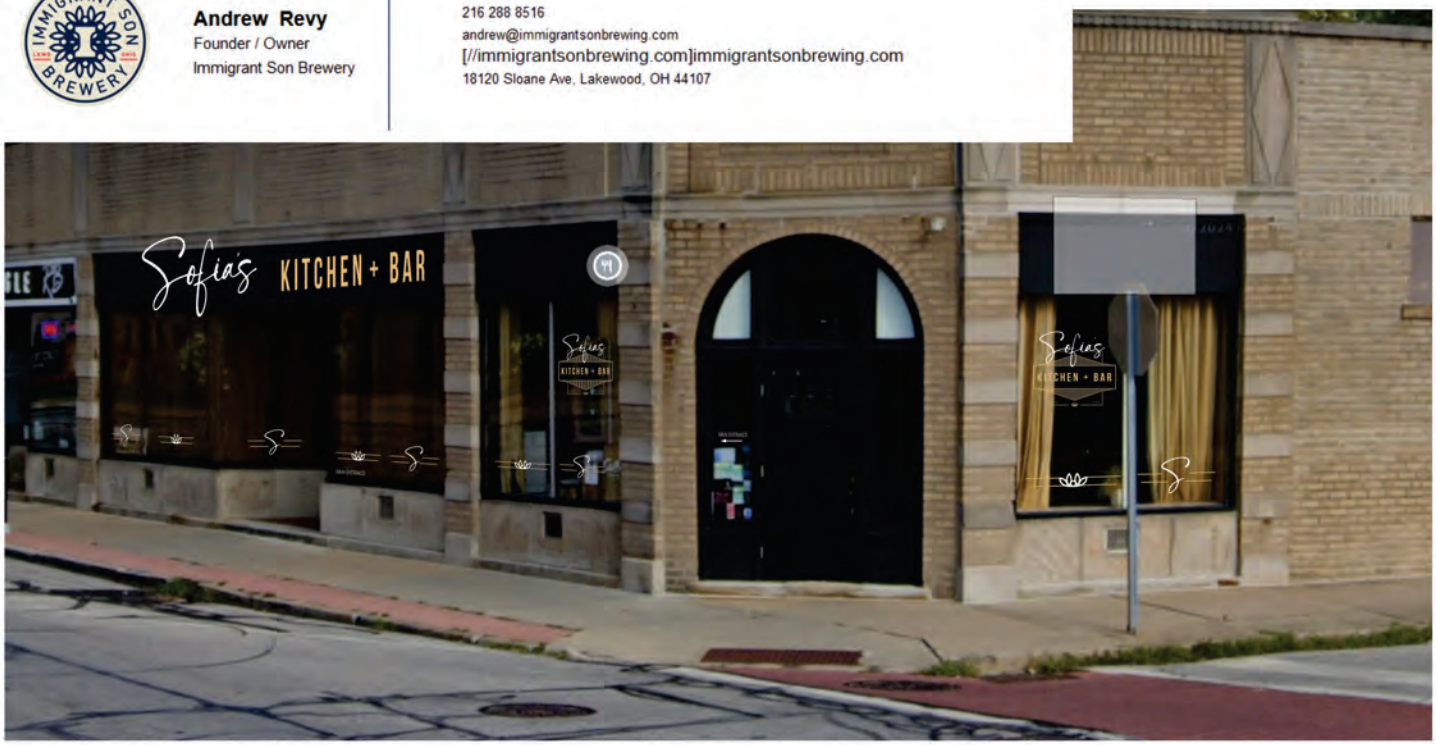
CLIENT SIGNATURE OF APPROVAL DATE:

Everything looks good. Please let this email confirmation serve as signature of approval for price and documents to be submitted to Lakewood.

Thank you,

Andrew Revy
Founder / Owner
Immigrant Son Brewery

216 288 8516
andrew@immigrantsonbrewing.com
[//immigrantsonbrewing.com]immigrantsonbrewing.com
18120 Sloane Ave, Lakewood, OH 44107





ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT:	JOB #:	DATE:
Sofia's Kitchen & Bar		

ADDRESS: 17625 Detroit Ave

REVISION HISTORY:

DATE:	CHANGES MADE:

CLIENT SIGNATURE OF APPROVAL DATE:





ERIE deSign
Signs, Banners & Graphics
216-227-0043
www.eriedesign.com

CLIENT:	JOB #:	DATE:
Sofia's Kitchen & Bar		

ADDRESS: 17625 Detroit Ave

REVISION HISTORY:

DATE:	CHANGES MADE:

CLIENT SIGNATURE OF APPROVAL DATE:


ABC

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-09-25

Permit No.: BBS25-000007

Applicant Name: Paul Lange, PBC Banners & Sings Inc. dba Signarama North Olmsted

Project Address: 13633 Madison Ave.

Project Name: Law Office

Project: Applicant proposes signage in the sign band.



Current Street Elevation



Customer:	
Company:	
Address:	
City:	State/ZIP:
Phone:	
Fax:	

Signarama North Olmsted
The way to grow your business.

26747 Brookpark Rd. EXT.
North Olmsted, Ohio 44070
PH: 440-716-0000

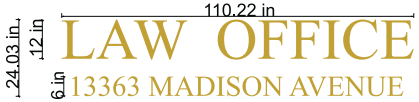
PROOF APPROVAL

PLEASE THOROUGHLY REVIEW ALL DIGITAL AND PHYSICAL PROOFS OF THE PROJECT.

The client understands that all proof reading and spell checking is your responsibility, and understand that printed product colors may vary from what you may see on your computer screen. Client accepts full responsibility for this approval and hereby grant permission to proceed with the production. The client understands that by the third revision, extra fee's may apply.

Job No.:	Date:
Order Date:	Salesperson:
Sign Dimensions:	Estimate:
Comments:	





18.33 Sq Ft.

Formed plastic dimensional letters, GOLD, flat face
Qty 1 Set

Building Frontage = 36'-0"

Customer:	
Company:	
Address:	
City:	State/ZIP:
Phone:	
Fax:	

Signarama North Olmsted
The way to grow your business.

26747 Brookpark Rd. EXT.
North Olmsted, Ohio 44070
PH: 440-716-0000

PROOF APPROVAL

PLEASE THOROUGHLY REVIEW ALL DIGITAL AND PHYSICAL PROOFS OF THE PROJECT.
The client understands that all proof reading and spell checking is your responsibility, and understand that printed product colors may vary from what you may see on your computer screen. Client accepts full responsibility for this approval and hereby grant permission to proceed with the production. The client understands that by the third revision, extra fee's may apply.

Job No.:	Date:
Order Date:	Salesperson:
Sign Dimensions:	Estimate:
Comments:	


LAKEWOOD
CATHOLIC
ACADEMY


NPA COATINGS INC.


WESTSHORE
FAMILY
DENTAL


North Park Care Center
RISER
ROOM
14803

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

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F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-10-25

Permit No.: BBS25-000008

Applicant Name: Steven Foster, The Sign & Graphics Firm, LLC

Project Address: 17008-A Madison Ave.

Project Name: The Parlour

Project: Applicant proposes re-facing of existing blade signs and window graphics.

Signature of consent

I hereby provide my signature for consent on behalf of the owner and tenant of said property for which I am submitting a sign application for review.



Steve Foster
The Sign & Graphics Firm
(216) 390-0198

SGF
The SIGN & GRAPHICS FIRM
216·390·0198

Existing Window Vinyl

17008B



17008A





Existing Blade Signs

Double-sided, Face-lit



Center Window



Door

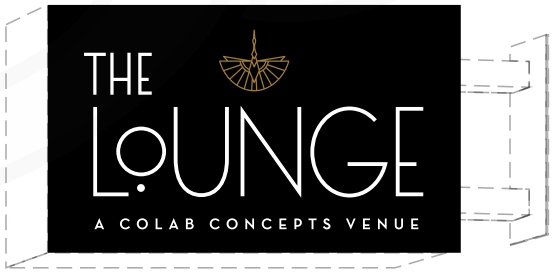


Door



Center Window

Revised White Vinyl Decals





Re-Face Existing Blade Signs

This drawing is CONFIDENTIAL and PROPRIETARY. Use without written permission of The Sign & Graphics Firm is strictly prohibited.

***NOTE:** Renderings are approximate representations of final production.*

1 1-21-25

ADDRESS: 17008 Madison Ave. Lakewood, OH 44107

BUSINESS NAME: ***The Parlour*** *(fka CO-LAB)*

Steven Foster
216.390.0198
sgfoster09@gmail.com

The SIGN & GRAPHICS FIRM

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-11-25

Permit No.: BBS25-000002

Applicant Name: Brian Limkemann, House to Home Cleveland, LLC

Project Address: 1515 St. Charles Ave.

Project Name: n/a

Project: Applicant proposes to convert a three-season room to year-round living space and to install new siding on the entire home.

RECEIVED
By Kelly McCafferty at 1:48 pm, Sep 12, 2024

RB24-000508

Approved Plan
*See Certificate of Plan approval
RB24-000508
William Wagner
09/27/2024

RCO DESIGN LOADS:

	LIVE LOAD	DEAD LOAD	TOTAL LOAD
ROOF	20 PSF	10 PSF	30 PSF
BEDROOMS	30 PSF	10 PSF	40 PSF
LIVING AREAS BALCONIES STAIRS	40 PSF	10 PSF	50 PSF

WIND SPEED – 115 MPH
EXPOSURE CATEGORY – B
SEISMIC CATEGORY – A

NOTES:
1. ALL WORK SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE W/THE 2023 NEC AND THE 2019 RCO, THE 2024 OPC AND OMC.
2. ALL FRAMING LUMBER SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS (“FB”) OF 1200 PSI
3. ALL FOOTINGS TO BEAR ON VIRGIN SOIL, MINIMUM 3’–6” BELOW GRADE. ALLOWABLE SOIL DESIGN LOAD = 1500 PSF
4. CONCRETE FOR FOUNDATIONS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI

GENERAL NOTES:
1. ALL EXTERIOR WALLS ARE 4” U.O.N.
2. ALL INTERIOR WALLS ARE 3–1/2” U.O.N.
3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
4. CONTRACTOR TO VERIFY ALL MEASUREMENTS ON THE JOB SITE.
5. ALL WINDOWS ARE INDICATED BY GLASS SIZE.
6. ALL PRE–FABRICATED FIREPLACES & FLUES SHALL BE U.L. APPROVED.
7. PROVIDE 22”x30” MIN. ACCESS W/ LIGHT.
8. PROVIDE 1–3/4” INSULATED METAL DOOR (C LABEL) TO GARAGE. DOOR MUST BE FIRE RATED A MIN. OF 20 MINUTES & SELF–CLOSING.
9. SMOKE DETECTORS SHALL BE HARD WIRED & INTERCONNECTED.
10. SUMP PUMPS SHALL HAVE AN INLINE CHECK VALVE.
11. STAIRWELLS WILL HAVE A WALL, RAIL OR HANDRAIL & SPINDLES INSTALLED PER LOCAL CODE.
12. PER TABLE 302.1(1) PROJECTIONS BETWEEN 2 TO 5 FEET FROM PROPERTY LINE TO MEET THE FIRE RESISTANCE RATING.
13. ALL ROOF PITCHES LESS THAN 4:12 SHALL HAVE (2) LAYERS OF UNDERLAYMENT.
14. ATTIC ACCESS SIZES: GARAGE – 22–1/2” x 54” INTERIOR – 22–1/2” x 30”

INSULATION:
1. 2x4 WALLS: 3–1/2” BATTS (R15 MIN.)
   2x6 WALLS: 5–1/2” BATTS (R19 MIN.)
2. FLAT CEILINGS: 9–1/2” BATTS (R49 MIN.) OR BLOWN–IN.
3. VAULTED CEILINGS: 6–1/4” BATTS (R19 MIN.)
4. BOX ENDS: 9–1/2” (R30 MIN.)
5. SLAB EDGES: 1–1/2” RIGID EXTRUDED POLYSTYRENE (R7.5 MIN.)
6. PROVIDE VENTILATION BAFFLES @ ALL RAFTER SPACES.
7. CAULK ALL OPENINGS IN EXTERIOR WALLS.
8. SEAL ALL OPENINGS IN TOP PLATES.

GYPSUM BOARD:
1. PROVIDE 1/2” REGULAR GYPSUM BOARD THROUGHOUT ENTIRE STRUCTURE EXCEPT AS NOTED.
2. PROVIDE WATER RESISTANT GYPSUM BOARD IN ALL BATH & TOILET AREAS.
3. USE 5/8” GYPSUM BOARD ON CEILINGS WHEN SUPPORTING MEMBERS MEET OR EXCEED 24”OC.

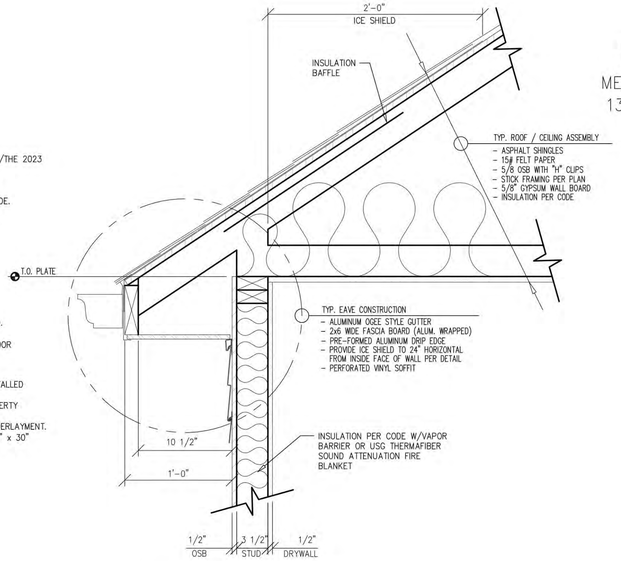
ELECTRICAL:
1. ARC FAULT PROTECTION & GFCI PROTECTION TO NEC CODE.
2. INSTALL CARBON MONOXIDE DETECTORS PER MANUFACTURER RECOMMENDATION & LOCAL CODES.
3. PER 1104.1 – NOT LESS THAN 90% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH–EFFICACY LAMPS.

WOOD FRAMING NOTES:
1. FRAMING MEMBER SHALL BE SPRUCE PINE FIR #2 OR EQUAL.
2. BEAMS, HEADERS, & FLOOR JOISTS SHALL HAVE AN ALLOWANCE BENDING STRESS OF 1200 PSI (CROWN ALL FLOOR JOISTS).
3. ALL LUMBER SHALL BE STAMPED W/ THE GRADE MARK OF AN APPROVED TESTING AGENCY.
4. ALL WINDOW & DOOR HEADERS TO BE (2)2x12’S W/ 1/2” SHIM.
5. ALL PARTITIONS OVER 12’0 HT SHALL BE FRAMED @ 12”OC.
6. PROVIDE 3” OR 4” (AS NOTED) STEEL COLUMNS @ STEEL BEAM BEARING POINTS.
7. PROVIDE 2x6 TOP PLATE OF ALL STEEL BEAMS.
8. PROVIDE GALVANIZED JOIST HANGERS @ ALL FLUSH BEAMS.
9. PROVIDE FIRESTOPPING @ ALL SOFFITS &* FURRED OFF SPACES.
10. PROVIDE 2x4 STIFFBACKS @ 10’0 OC FOR ALL CEILING JOISTS.
11. PROVIDE 2x6 COLLAR TIES @ 4’0 OC FOR ALL RAFTERS.
12. ALL HEADERS SHALL BE FREE FROM SPLITS, CHECKS, & SHAKES.
13. PROVIDE DBL HEADER JOIST & TRIMMER @ ALL FLOOR OPENINGS.
14. 1x3 “X” BRIDGING @ 10’0 OC MAX.
15. ALL ANGLED WALLS ARE 45 DEGREES U.O.N.
16. ADJUST OVERHANGS OF DIFFERENT PITCHES TO MAINTAIN CONSISTENT LEVEL.
17. ANY HIP OR VALLEY RAFTER EXCEEDING 28’0 LONG TO BE AN LVL.
18. TRUSS LAYOUT IS SCHEMATIC ONLY. TRUSS DESIGN & SPACING SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
19. DBL ALL JOISTS @ CANTILEVERS.
20. REPAIR/REPLACE ALL FRAMING DAMAGED BY MECHANICAL SYSTEMS.
21. ALL EXTERIOR WALLS SHALL BE BRACED IN ACCORDANCE W/ SECTION R602.10 OF THE 2019 RESIDENTIAL CODE OF OHIO.
22. ALL EXTERIOR WALLS SHALL BE CONTINUOUS STRUCTURAL PANEL SHEATHING INSTALLED IN ACCORDANCE W/ SECTION R602.10.5 OF THE 2019 RESIDENTIAL CODE OF OHIO.

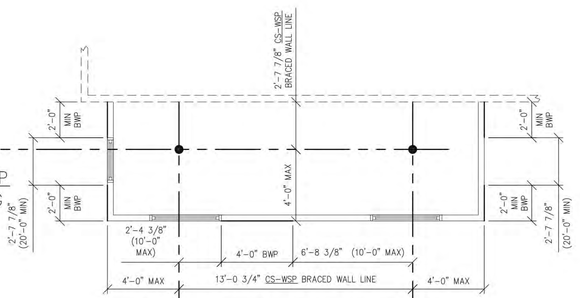
CONCRETE NOTES:
1. PROVIDE CONTROL JOINT @ MIDPOINT OF GARAGE IN BOTH DIRECTIONS.
2. PROVIDE SAWN OR HAND TROWELED CONTROL JOINTS @ 10’0 OC EACH WAY IN DRIVEWAYS.
3. PROVIDE CONTROL JOINTS IN ALL WALKS EQUAL TO THE WIDTH OF THE WALK.

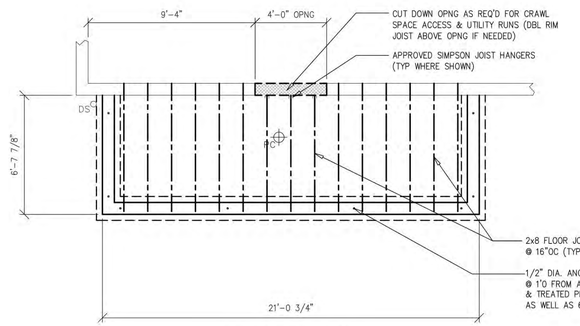
MASONRY NOTES:
1. PROVIDE CMU “LOOKOUTS” @ 4’0 OC WHERE SHELVES ARE NOT PROVIDED.
2. PROVIDE 1/2”x15” ANCHOR BOLTS OR TIE STRAPS @ 6”OC & ALL CORNERS (MAX. 1’0).
3. PROVIDE SOLID MASONRY @ ALL BEAM BEARING LOCATIONS. SOLID MASONRY TO EXTEND DOWN TO FOOTINGS.
4. PROVIDE GALVANIZED CORRUGATED METAL TIES @ 16”OC HORIZONTALLY & VERTICALLY FOR ALL MASONRY VENEERS.
5. PROVIDE 8” SOLDIER & 4” ROWLOCK @ ALL WINDOW & DOOR OPENINGS, PROJECTED 1/2”
6. PROVIDE WEEP HOLES @ 4’0 OC ON 1ST COURSE EXPOSED ABOVE GRADE.

FOOTING NOTES:
1. ALL FOOTINGS TO BE 8” WIDER THAN THE WALL THEY SUPPORT.
2. ALL FOOTINGS SHALL BE A MIN. OF 42” BELOW FINISHED GRADE.
3. GRADE W/ FULL HT BASEMENT SHALL BE:
   – 16” BELOW TOP OF FOUNDATION ON ALL WALLS EXCLUDING FRONT OF HOUSE.
   – 12” BELOW TOP OF FOUNDATION ON ALL WALLS @ FRONT OF HOUSE
   SUBJECT TO GRADE CHANGES (VERIFY W/ ENGINEER TOPO)
4. GRADE W/ SLAB FOUNDATION SHALL BE:
   – 8” BELOW TOP OF FOUNDATION ON ALL WALLS.
   SUBJECT TO GRADE CHANGES (VERIFY W/ ENGINEER TOPO)
5. ALL BASEMENT & CRAWL SPACE WALLS TO BE WATERPROOFED PER BUILDERS STANDARDS OR MUNICIPAL STANDARDS, WHICHEVER IS GREATER.
6. ALL WATERPROOFING TO BEGIN @ GRADE & CONTINUE TO FOOTINGS.
7. PORCH WALL TO BE WATERPROOFED ONLY @ INTERIOR WALLS.
8. WALL BETWEEN GARAGE & HOUSE TO BE WATERPROOFED.
9. WALL DIVIDING FULL BASEMENT & CRAWL SPACE (IF NECESSARY) TO BE WATERPROOFED TO THE FULL HT OF THE WALL.



DETAIL: TYP EAVE CONSTRUCITON
SCALE: NONE

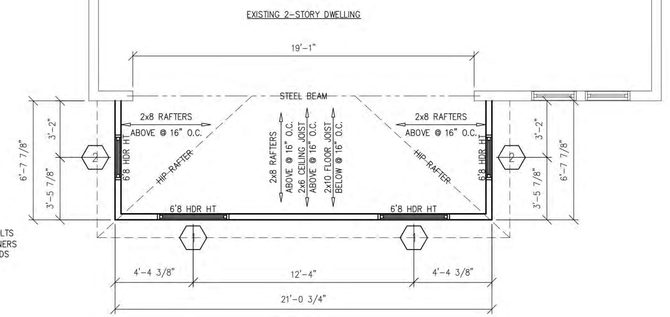




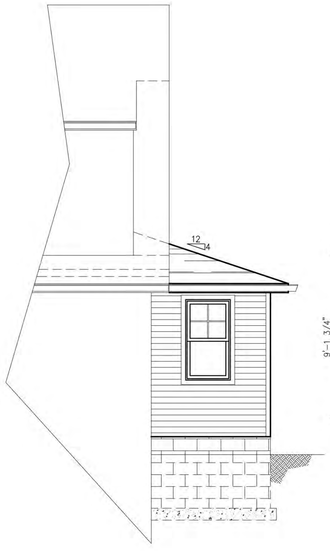
FOUNDATION PLAN
SCALE: 1/4" = 1'–0"
PROPOSED ADDITION ON EXISTING BLOCK FOUNDATION/CONC FTR
EXISTING ROOF/WALLS/FLOOR FRAMING TO BE REMOVED – EXISTING FOOTERS TO GET UNDERPINNED

WINDOW & DOOR SCHEDULE				
MANUFACTURER	TBD			
LOCATION	MANUFACTURER NUMBER	ROUGH OPENING SIZE	VENTING R L	WALL SIZE 4" 6"
1	4011O PW – 2 TYP	48" x 22"		4"
2	2646 DH – 2 TYP	30" x 54"		4"

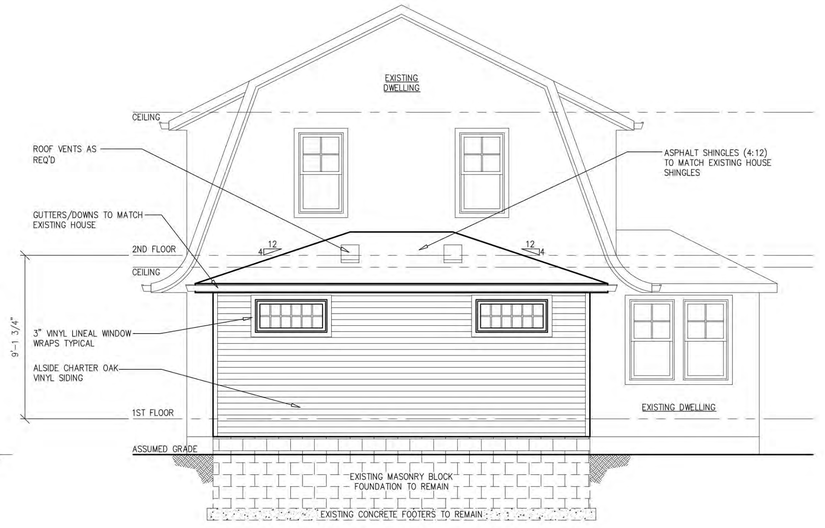
* NOTE GRID PATTERNS @ ELEVATIONS
* ALL BEDROOM WINDOWS MUST COMPLY WITH EMERGENCY EGRESS CODE.
* VERIFY ALL WINDOW & DOOR ROUGH OPENINGS W/ ASSOCIATED MFG SPECS



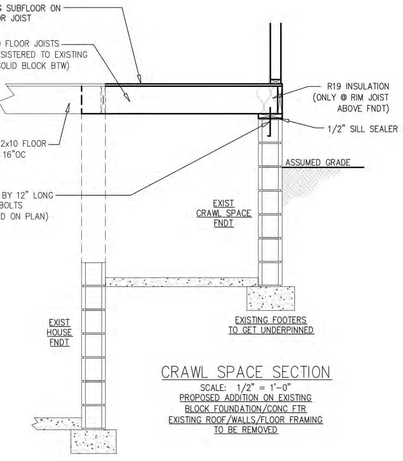
PROPOSED FLOOR PLAN
SCALE: 1/4"=1'–0"



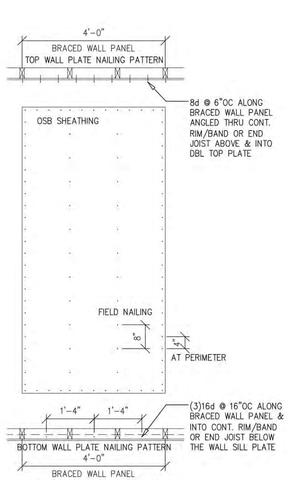
PROPOSED WEST ELEVATION
ST. CHARLES AVE VIEW – EAST SIDE VIEW IS A MIRROR IMAGE
SCALE: 1/4"=1'–0"



PROPOSED SOUTH ELEVATION
FRANKLIN BLVD VIEW
SCALE: 1/4"=1'–0"



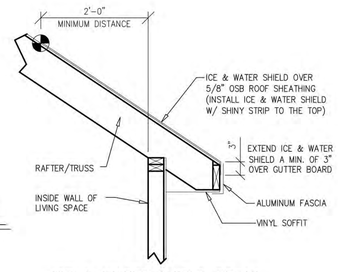
CRAWL SPACE SECTION
SCALE: 1/2" = 1'–0"
PROPOSED ADDITION ON EXISTING BLOCK FOUNDATION/CONC FTR
EXISTING ROOF/WALLS/FLOOR FRAMING TO BE REMOVED



BRACED WALL NAILING
SCALE : 1/2" = 1'–0"

NOTE

BRACED WALL PANELS SHOWN ARE ONLY SHOWN AT A MINIMUM PANEL LENGTH (PER CODE) ANY MORE ADDED ARE @ THE BUILDERS/FRAMERS DISCRETION



ICE & WATER SHIELD DETAIL
SCALE : 3/4" = 1'–0"

HOUSE TO HOME DESIGN & REMODEL

34909 TIMBERVIEW DRIVE – AVON, OH 44011
MALONEY RESIDENCE
1515 ST. CHARLES AVENUE
LAKEWOOD, OH 44107


the day we became
&
vember 5, 2016



NINJA

ROYAL

Canon

Have questions or need help?

1-800-672-4399

HOTSPA

SALON • SPA • HOME

PROFESSIONAL NAIL BUBBLE SPA


Oster
ORGANIZER DESK LAMP
EQUIPMENT


1515
NORTHEAST OHIO
FENCE & DECK
216-516-7444













City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-12-25

Permit No.: BBS25-000003

Applicant Name: Daniel Margulies, Daniel Margulies Co. Inc.

Project Address: 830 Beach Rd.

Project Name: n/a

Project: Applicant proposes a two-story addition to an existing residence.





AERIAL PERSPECTIVE VIEWING SOUTHWEST
N.T.S.

ADDITIONS and RENOVATIONS for:

THE ZITO RESIDENCE

830 BEACH ROAD LAKEWOOD , OHIO

DRAWING INDEX

#	DESCRIPTION
1	COVER SHEET • DRAWING INDEX • EXTERIOR PERSPECTIVES
2	FIRST FLOOR PLAN
3	SECOND FLOOR PLAN
4	ROOF PLAN
5	NORTH and SOUTH EXTERIOR ELEVATIONS
6	EAST EXTERIOR ELEVATION • EXTERIOR PERSPECTIVES
7	EXISTING CONDITIONS PHOTOGRAPHS

REV.

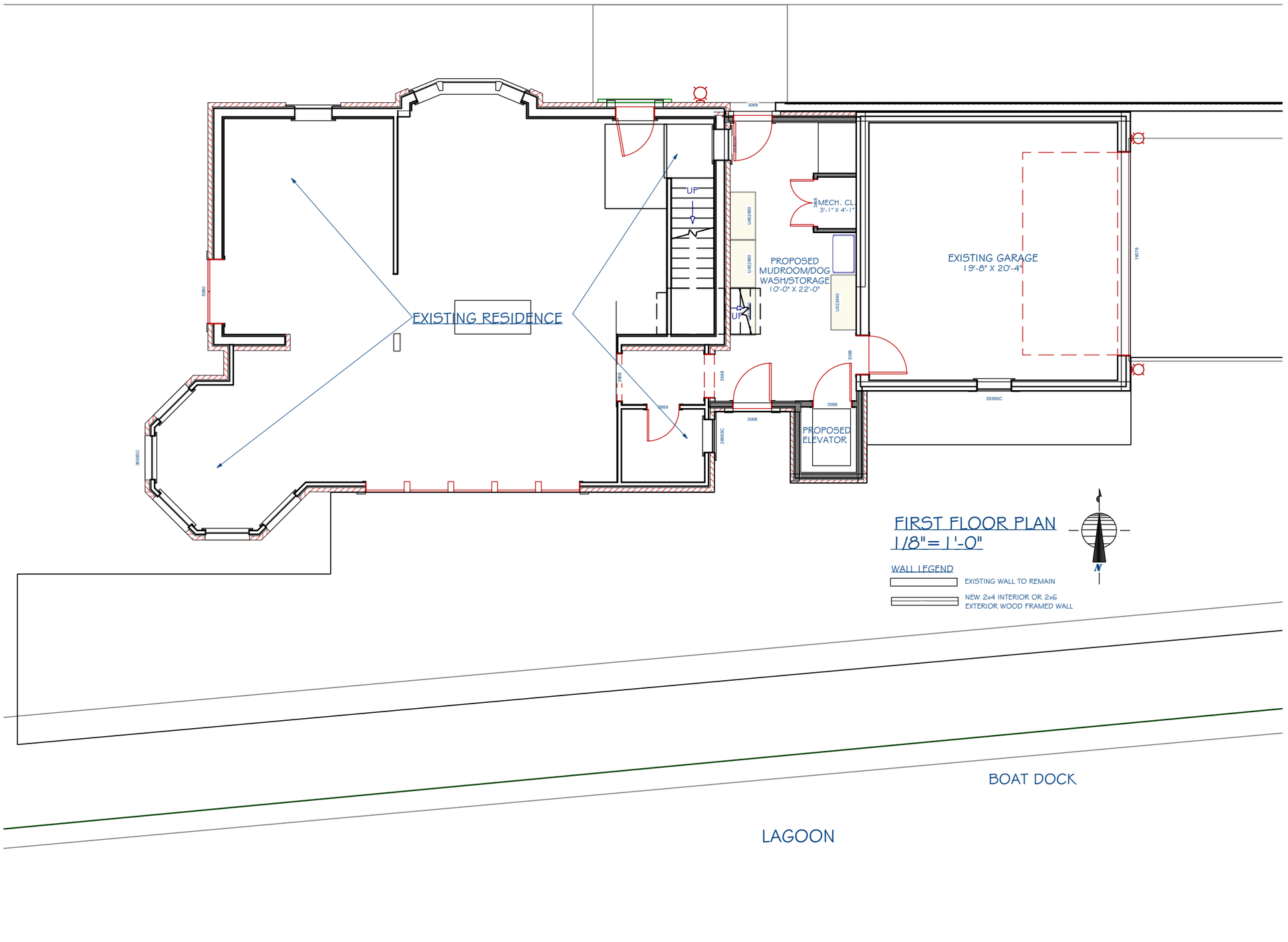
DESIGN: DANIEL MARGULIES COMPANY INC.
1210 CHASE AVENUE
LAKEWOOD, OHIO 44107
TEL: 216-978-9237
EMAIL: daniel@dmc.ohiocoxmail.com

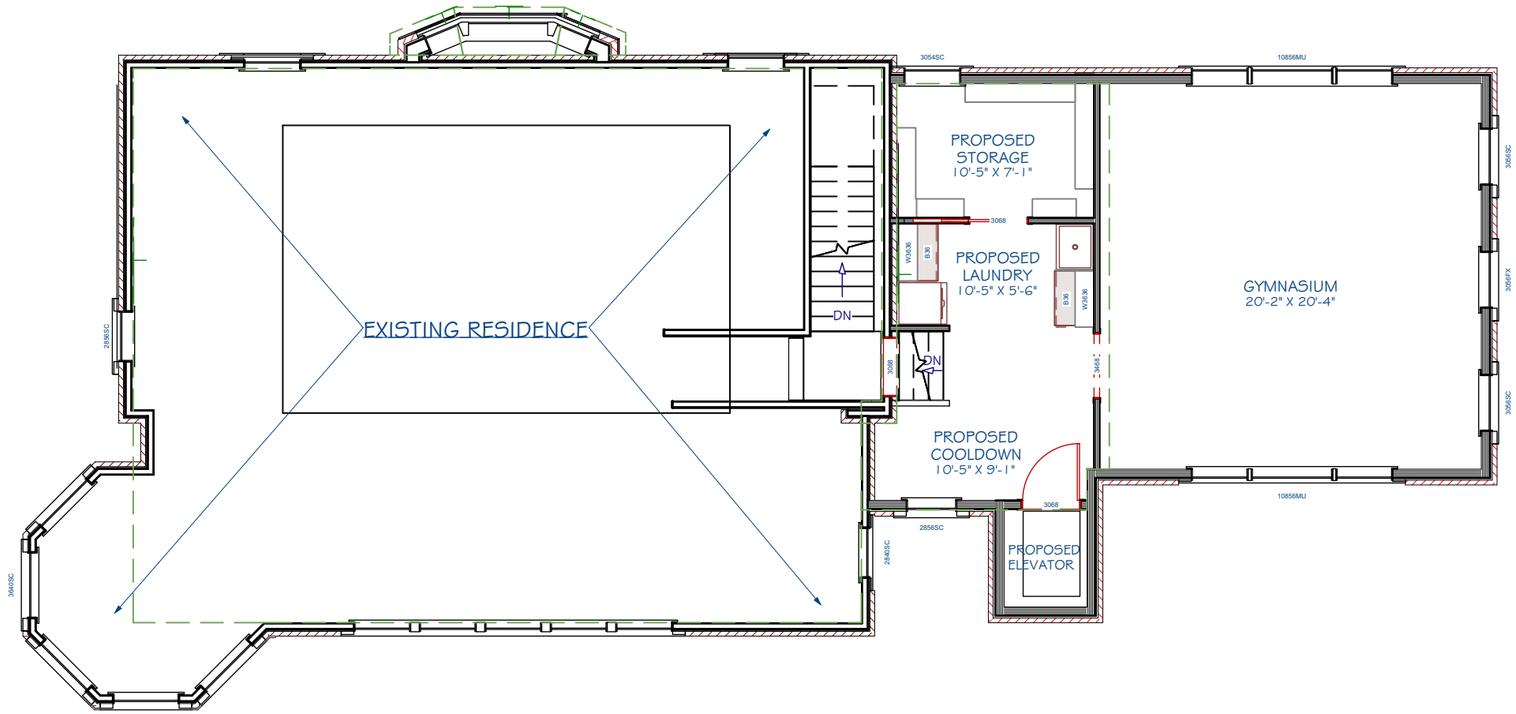
ADDITION for:
THE ZITO RESIDENCE
830 BEACH ROAD LAKEWOOD , OHIO

ISSUE DATE:
01.17.2025: FOR LKWD. DRB

SHEET NO.
1 of 7

BEACH ROAD


EXISTING RESIDENCE
UP
UP
MECH. CL.
3'-1" X 4'-1"
PROPOSED
MUDROOM/DOG
WASH/STORAGE
10'-0" X 22'-0"
EXISTING GARAGE
19'-8" X 20'-4"
PROPOSED
ELEVATOR
3068
3068
3068



SECOND FLOOR PLAN
1/8"= 1'-0"

WALL LEGEND

EXISTING WALL TO REMAIN

NEW 2x4 INTERIOR OR 2x6 EXTERIOR WOOD FRAMED WALL

N

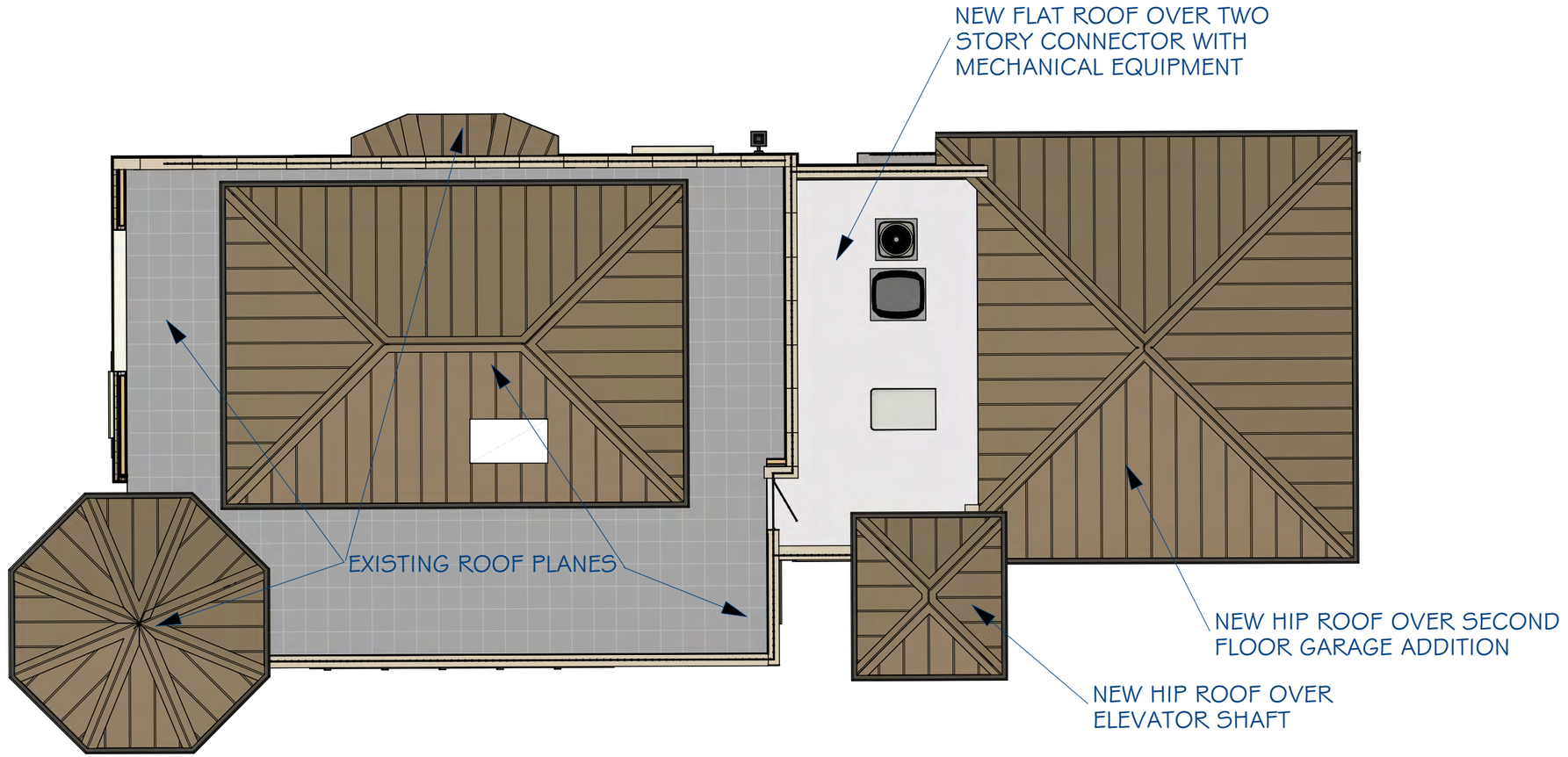
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SHEET NO.
3 of 7



ROOF PLAN
1/8"= 1'-0"

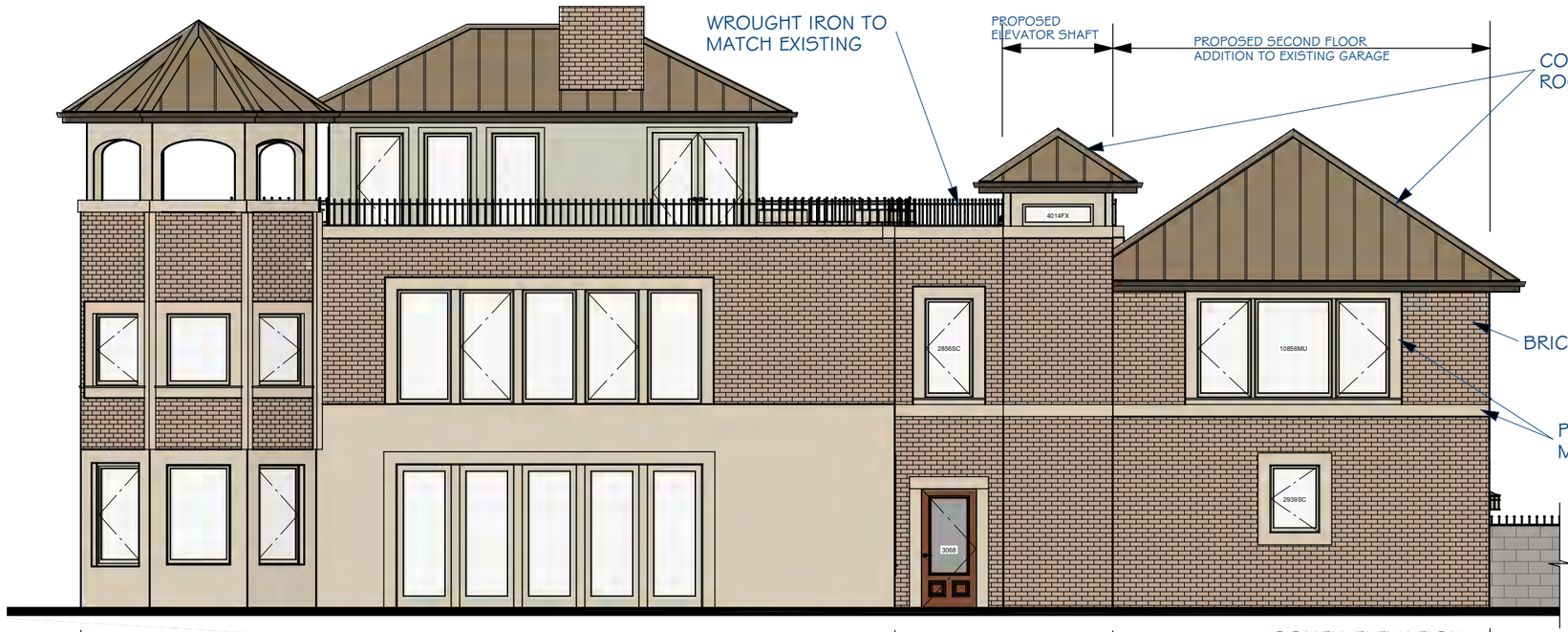
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SHEET NO.
4 of 7



WROUGHT IRON TO MATCH EXISTING

PROPOSED ELEVATOR SHAFT

PROPOSED SECOND FLOOR ADDITION TO EXISTING GARAGE

COPPER STANDING SEAM METAL ROOF TO MATCH EXISTING

BRICK VENEER TO MATCH EXISTING

POMPILI PRECAST CONCRETE TO MATCH EXISTING

EXISTING THREE STORY RESIDENCE

PROPOSED TWO STORY CONNECTION OF EXISTING GARAGE TO EXISTING HOME

EXISTING DETACHED ONE STORY 2 CAR GARAGE

SOUTH ELEVATION
1/8"=1'-0"



COPPER STANDING SEAM METAL ROOF TO MATCH EXISTING

PROPOSED SECOND FLOOR ADDITION TO EXISTING GARAGE

PROPOSED ELEVATOR SHAFT

WROUGHT IRON TO MATCH EXISTING

BRICK VENEER TO MATCH EXISTING

POMPILI PRECAST CONCRETE TO MATCH EXISTING

EXISTING DETACHED ONE STORY 2 CAR GARAGE

PROPOSED TWO STORY CONNECTION OF EXISTING GARAGE TO EXISTING HOME

EXISTING THREE STORY RESIDENCE

NORTH ELEVATION
1/8"=1'=0"

REV.

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LAKEWOOD, OHIO 44107
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830 BEACH ROAD LAKEWOOD, OHIO

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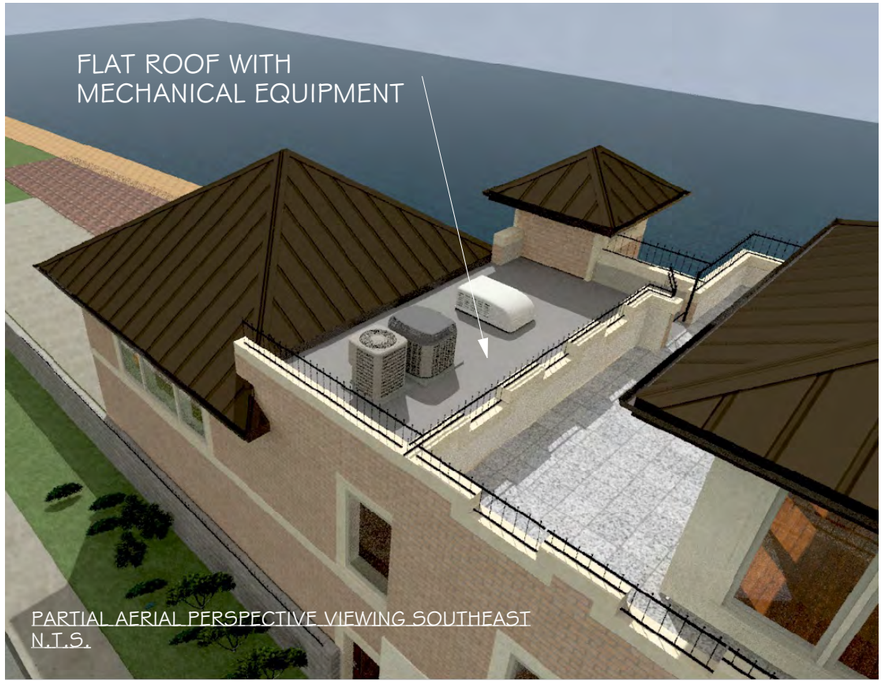
SHEET NO.
5 of 7



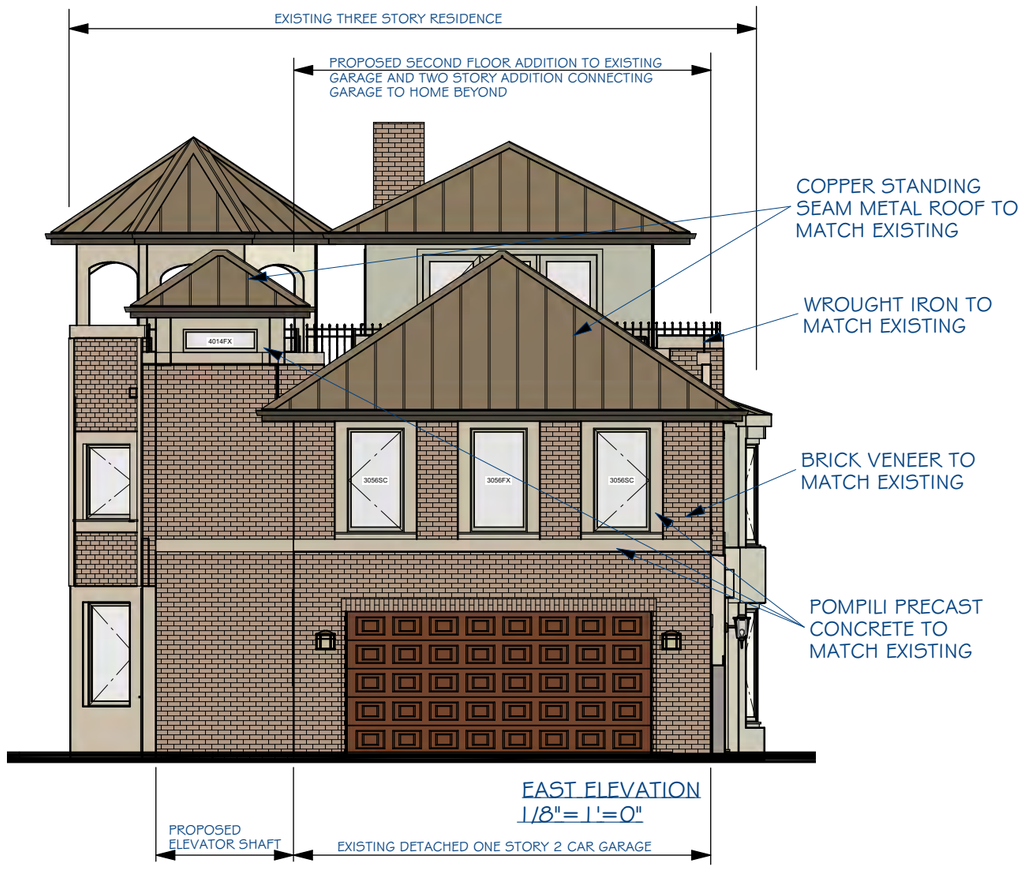
PERSPECTIVE VIEWING NORTHWEST
N.T.S.



PERSPECTIVE VIEWING SOUTHWEST
N.T.S.



PARTIAL AERIAL PERSPECTIVE VIEWING SOUTHEAST
N.T.S.



EAST ELEVATION
1/8"=1'=0"

REV.

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ADDITION for:
THE ZITO RESIDENCE
830 BEACH ROAD LAKEWOOD , OHIO

ISSUE DATE:
01.17.2025: FOR LKWD. DRB

SHEET NO.
6 of 7



EXISTING CONDITIONS PHOTO VIEWING WEST
N.T.S.



EXISTING CONDITIONS PHOTO VIEWING EAST
N.T.S.



EXISTING CONDITIONS PHOTO VIEWING NORTH
N.T.S.



EXISTING CONDITIONS PHOTO VIEWING SOUTHWEST
N.T.S.

REV.

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ADDITION for:
THE ZITO RESIDENCE
830 BEACH ROAD LAKEWOOD , OHIO

ISSUE DATE:
01.17.2025: FOR LKWD. DRB

SHEET NO.
7 of 7

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-13-25

Permit No.: BBS25-000004

Applicant Name: Joseph V. Linek, Linek Studio

Project Address: 1360 W. 117th St.

Project Name: Flower Child

Project: Applicant proposes exterior renovations to the east and north elevations.

From: **dan vanguardcleveland.com** dan@vanguardcleveland.com
Subject: 1360 West 117th, Lakewood
Date: January 21, 2025 at 9:18 AM
To: Joe Linek joseph@linekstudio.com

DV

Mr. Linek,

Please accept thus email as authorization to act as our agent regarding all architectural submissions, plans, and revisions for 1360 West 117th street, Lakewood, Ohio to the city of Lakewood Planning Committee.

Respectfully,

Dan Shepard
J & D W117th LLC
(216) 409-8113
Sent from my iPhone



RENOVATION for
Flower child vintage
1360 WEST 117TH STREET LAKEWOOD, OHIO

PROJECT DESCRIPTION

THESE DRAWINGS DESCRIBE THE CONSTRUCTION DOCUMENTS FOR THE RENOVATION OF THE EXISTING BUILDING AT 1360 WEST 117TH INTO A MERCANTILE FACILITY

ABBREVIATIONS

ACT acoustical ceiling tile
ADA Americans W/ Disabilities Act
AFF above finished floor
ALUM aluminum

BD board
BLDG building
BLK blocking
BOT bottom
BRG bearing

CJ control joint
CPT carpet
CL centerline
CLG ceiling
CMU concrete masonry unit
COL column
CONC concrete
CORR corridor
CT ceramic tile
CTB cermic tile base

DBL double
DF drinking fountain (bubbler)
DIM (S) dimension
DN down
DS down spout
DTL detail
DWG drawing

EA each
ELEC electrical
ELEV elevation
EJ expansion joint
EQ equal
ETR existing to remain
EWC electric water cooler
EX existing
EXIST existing

FE fire extinguisher
FEC fire extinguisher cabinet
FIN finish
FLR floor
FRP fiberglass reinforced panel
FTG footing

GA gauge
GALV galvanized
GC general contractor
GFCI ground fault circuit interrupter
GYP BD gypsum wall board

HM hollow metal
HORZ horizontal

ID inside diameter
IN inch

MECH mechanical
MO masonry opening
MFR manufacturer
MIN minimum

NIC not in contract
NO number
NTS not to scale

OC on center
OD outside diameter
OH opposite hand
OVHD overhead

PLAM plastic laminate
PL plate
PLBG plumbing
PNT paint
PR pair
PSI pounds per square inch

QT quarry tile

RB rubber base
RCP reflected ceiling plan
RO rough opening
REQ require (d)
RM room

SECT section
SIM similar
SQ square
SRC sound reduction coefficient
STD standard
STL structural
STRUC structure
SV sheet vinyl

T&B top & bottom
T&G tongue and grove
TCA tile council of america
TEMP tempered
TOS top of steel
TYP typical

UNO unless noted otherwise

VCT vinyl composition tile
VERT vertical
VWC vinyl wall covering

W/ with
WC water cooler
WD wood
WF wide flange
WXD width X depth

XFMR transformer

SYMBOLS LEGEND

NORTH ARROW
ADDENDUM TAG
BULLETIN TAG
DETAIL REFERENCE
COLUMN TAG
DATUM
DETAIL MARK
DOOR NO.: REFER TO DOOR SCHEDULE
ELEVATION NOTE
EXTERIOR & INTERIOR ELEV.
FLAG NOTES
FINISH MATERIAL NOTE: REFER TO SCHEDULE
LOUVER TAG: REFER TO SCHEDULE
REFLECTED CEILING PLAN TAG
TRUSS ARROW

PARTITION TYPE TAG
WINDOW TAG: REFER TO SCHEDULE
NEW ROOM DESIGNATION
EXISTING ROOM DESIGNATION

ASPHALT
BATT INSULATION
BRICK
CERAMIC TILE
CONCRETE
CONCRETE BLOCK
EARTH
FINISH WOOD
FIREBRICK
GRAVEL OR STONE
GYPSUM WALL BOARD
LUMBER OR WOOD BLOCKING
PLYWOOD
RIGID INSULATION
SPRAY FOAM INSULATION
STEEL

INDEX TO DRAWINGS

T1.01 TITLE SHEET / CODE REVIEW / SPECIFICATIONS
A1.01 DEMOLITION PLAN/ ELEVATIONS
A2.01 FLOOR PLAN
A3.01 ELEVATIONS

CODE REVIEW

OBC 2024

Use group M
Construction type IIIB
Buildings are one story Building is not sprinklered
Per 504.3, 504.4, 506.2
55' height limit — 16'-0"actual
2 stories allowable — 1 stories actual
12,500 sf allowable — 12,687 sf.actual total building use frontage area increase per 506.3.3

38% of perimeter fronts open space greater than 30 feet. use factor of .25 for increase
12,500x.25= 3,125 12,500+3,125= 15,625sf allowable area

Table 601 Fire resistance rating requirements for building elements(hours)
New construction Type IIIB All elements are 0 hours except exterior bearing walls shall be 2hr.

903.7.2 Group M. a non sprinklered fire area can not exceed 12,000sf.
Two fire areas are established. See fire area plan
707.3.10 fire area separation must be 2 hours

803.11 Interior Finishes
corridors and enclosure for exit shall have a Class B materials
Rooms and enclosed spaces shall have a Class C materials

Table 1004.5 Occupant load 12,687SF = 1 person/60 sf. equals 211 occupants

1005.3.2 Egress width 211 x .2 =42.2" required. - building exceeds requirements.

1006 number of exits. 2 exits are required per 1006.3.1. 3 exits are provided.

1008means of egress illumination
1008.1 means of egress must be illuminated at all times. emergency lighting is provided

1009 accessible means of egress.
Accessible means of egress are provided.

1010.1.1 clear with of 32 inches with door open to 90° is required. Doors comply. 36" wide doors are being provided.

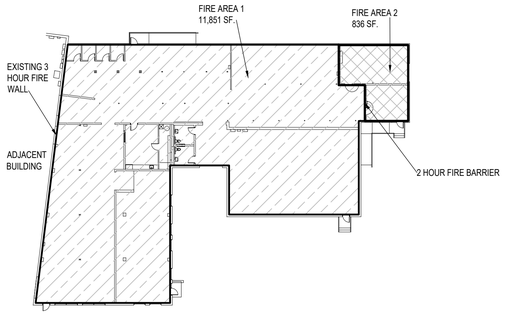
1010.1.2.1 Door swing: Doors shall swing in the direction of egress travel where serving an occupant load of 50 or more.

1013 exit signs
Exit and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. Exit signs are provided.

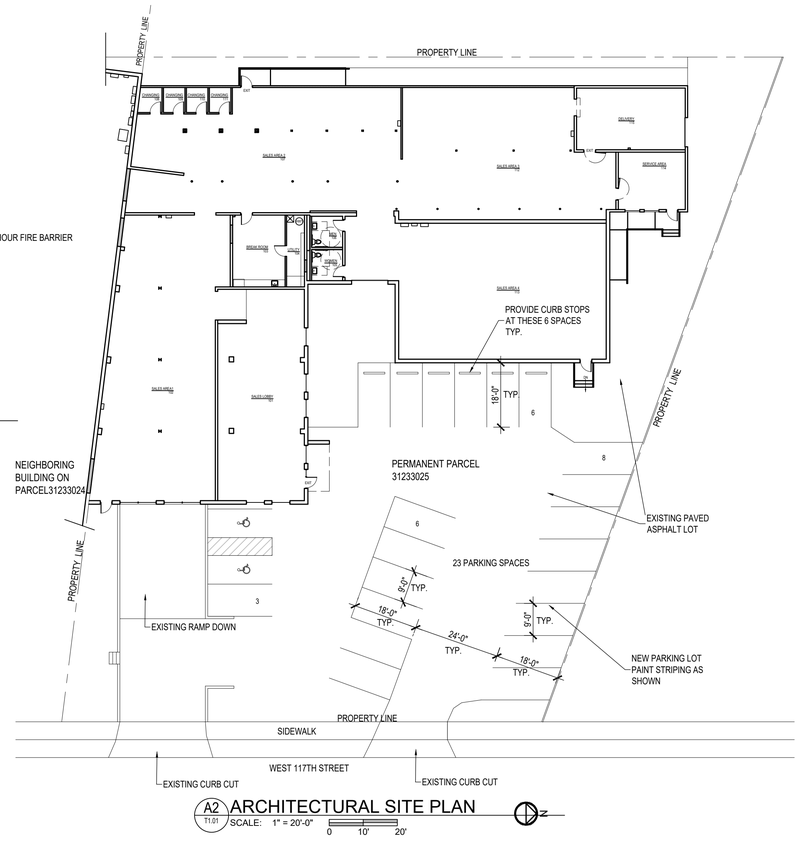
1017.2 exit access travel distance
M use group. building is not sprinklered = 200 feet **Building meets this requirement**

2902.1 Plumbing fixtures
M use group

water closets	1 per 500	required	211 occupants = 1 water closet reqd. 2 provided
Lavs	1 per 750	required	211 occupants =1 lav required-- 2 provided
Drinking fountains	1 per 1000	required	bottled water is provided in lieu of drinking fountain
Service sink	1 required	---	1 provided



A1 T1.01 FIRE AREA PLAN
SCALE: 1/32" = 1'-0"



A2 T1.01 ARCHITECTURAL SITE PLAN
SCALE: 1" = 20'-0"
0 10' 20'

SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

1. SUMMARY OF THE WORK: The work shall include all labor, materials and equipment to construct the renovation of the existing facility for Flower child vintage

2. CONTINUITY OF DOCUMENTS: The drawings and specifications form the conditions of construction as a whole, and shall interrelate, with the more stringent or higher quality method governing where two methods are shown or specified. An item shown only once but part of a system shall be considered part of the same system throughout the building unless otherwise noted.

3. ALLOWANCES, ALTERNATES AND UNIT PRICES: See drawings A4.02.1 and A4.02.2

4. COORDINATION: The Contractor shall be responsible for coordinating the work of all subtrades to insure the proper delivery and execution of the work described in the drawings and specifications. The Contractor shall work with the Owner regarding working times and conditions.

5. CUTTING AND PATCHING: Shall be undertaken by each subtrade as required for the installation of all new work in his agreement. The Subcontractor shall disturb conditions only to the extent required for the installation of new work. Coordinate the locations and placement of all subtrade required cutting and patch all disturbed areas adjacent to damaged areas to match adjacent construction. Provide all necessary safety precautions in the cutting and patching of new work to insure proper structural integrity throughout.

6. REGULATORY REQUIREMENTS: The General Contractor will obtain and pay for all required building permits and plan approvals. Each Subcontractor shall obtain and pay for all fees, permits and certificates of inspections, guarantees, etc. relative to his work, and as required by the municipality having jurisdiction over the work. Water and sewer tapping fees shall be paid for by the site improvement contractor.

7. CONSTRUCTION SCHEDULE: This shall be submitted to the owner's representative by the General Contractor within ten (10) days of construtoin commencement and shall graphically show the order and interdependence of all activities necessary to complete the work, and the sequence in which the activity is to be accomplished.

8. SUBMITTALS: Shop drawings will be required for various items concerning the construction and shall be submitted via pdf to the owner's representativer for his review and approval. Shop drawings and information cut sheets will be required on the following but are not limited to: block, concrete, roofing, structural steel, reinforcing steel, lt. gauge framing, doors and frames, windows, finish hardware, toilet accessories, fire extinguishers, and mechanical, electrical and plumbing equipment. Contractor shall not proceed with the ordering or installation of any items requiring shop drawings until obtaining the Owner's approval.

9. SCHEDULE OF VALUES: Prior to the first Application for Payment, the Contractor shall submit to the owner's representative a list of the breakdown of work items and their relative construction cost values. This shall be utilized in analyzing the percentage of completion and shall accurately reflect the cost or subcontract amount involved in each work item.

10. TESTING LABORATORY SERVICES: The Contractor, Owner shall provide and pay for the services of a testing laboratory approved by the Owner for the services specified as follows:
a. Geotechnical engineering – 1.) Geotechnical engineer shall approve all material to be used as fill and backfill and shall make field density tests on compacted subgrade and fill material with a minimum of six (6) inplace density tests. 2.) Geotechnical engineer shall verify that each footing placed is bearing on design material.

b. Concrete inspection and testing - shall be provided to insure compliance with the drawings and specifications as follows: molded concrete compression test cylinders shall be taken, with three (3) test cylinders for each 50 cubic yards, or fraction thereof, of each class of concrete used during each day's placement. One test cylinder shall be broken at seven (7) days and one at twenty-eight (28) days and one will be held in reserve. Take specimens and make tests in accordance with the applicable ASTM standard specifications on compression testing of concrete. Submit copies of all test reports on tested concrete and soils to the Owner. See Structural Drawings for other items.

11. TEMPORARY FACILITIES AND CONTROLS: The Subcontractors shall provide and pay for the following temporary facilities, as they are required on the project, by the trades as indicated:
a. Temporary Power - shall be provided by Electrical Subcontractor for utilization during the construction period which shall meet all codes and utility company requirements.

b. Temporary Heat - shall be provided by the HVAC Contractor as required to suit job conditions and the material being installed.

c. Temporary Water - piping and supply shall be provided by the General Contractor for use during the construction period. Contractor may coordinate with Owner for water connections to existing, if acceptable to Owner.

d. Telephone Equipment - shall be provided by the General Contractor for use during the construction period. The Contractor shall not utilize the Owner's facilities unless prior permission has been obtained.

e. Field Office -

f. Temporary Sanitary Facilities - shall be provided by the General Contractor as required for use by all construction personnel. Owner's facilities shall not be used during construction.

g. Enclosures and Safety Barricades - shall be provided and maintained by the subcontractor creating the hazard, throughout the duration of construction to protect and warn the public of any hazardous areas on the construction site.

h. Temporary Fencing - shall be provided by the General Contractor if necessary to control the public from encroaching on the construction area.

i. Shoring and Bracing - shall be provided as required for proper safety and execution of the work by the subcontractor creating the hazard.

j. Security Conditions - shall be the responsibility of each contractor and subcontractor in securing their materials, tool boxes and hand tools throughout the use in the project.

k. Safety Requirements - shall be observed by all construction personnel and shall involve all governmental regulations applicable to the project and those necessary to maintain worker and public safety. All requirements of OSHA shall be followed.

l. Access and Construction Parking - shall be coordinated with the Owner throughout the construction process. Subcontractors shall park all construction vehicles in area designated by Owner. Subcontractor shall be required to maintain and clean public and private thoroughfares and shall be responsible for the continuous maintenance and repair of any facilities damaged during the construction process.

m. Temporary Controls - shall be maintained to protect the Owner's property from weather and dust throughout the project. Carpentry Subcontractor shall construct and maintain temporary weather and dust barricades and partitions as required to control the effects of the construction work. All Subcontractors shall clean all areas affected by the dust and damage of the new construction work. Cleanup of all debris is provided by all trades creating debris.

Linekstudio
More Than Architecture
440-313-4672
14095 Country River Lane Newbury, Ohio 44065

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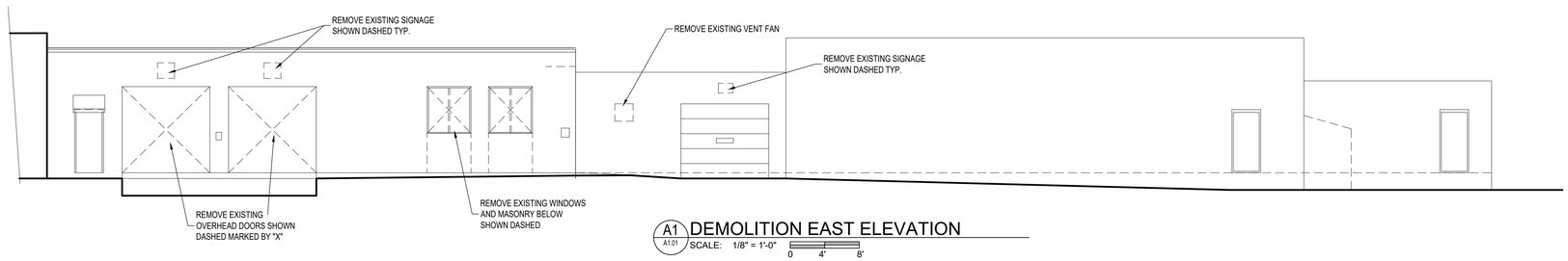
Joseph V. Linek, License # 1115432
Expiration Date 12/31/2025

NEW SALES SHOWROOM FOR FLOWER CHILD VINTAGE
1360 WEST 117TH STREET LAKEWOOD, OHIO

TITLE SHEET

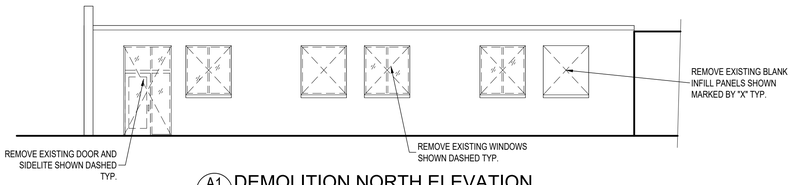
REVIEW 1-17-25
ABR SUBMITTAL 1-22-25

SHEET NUMBER
T1.01



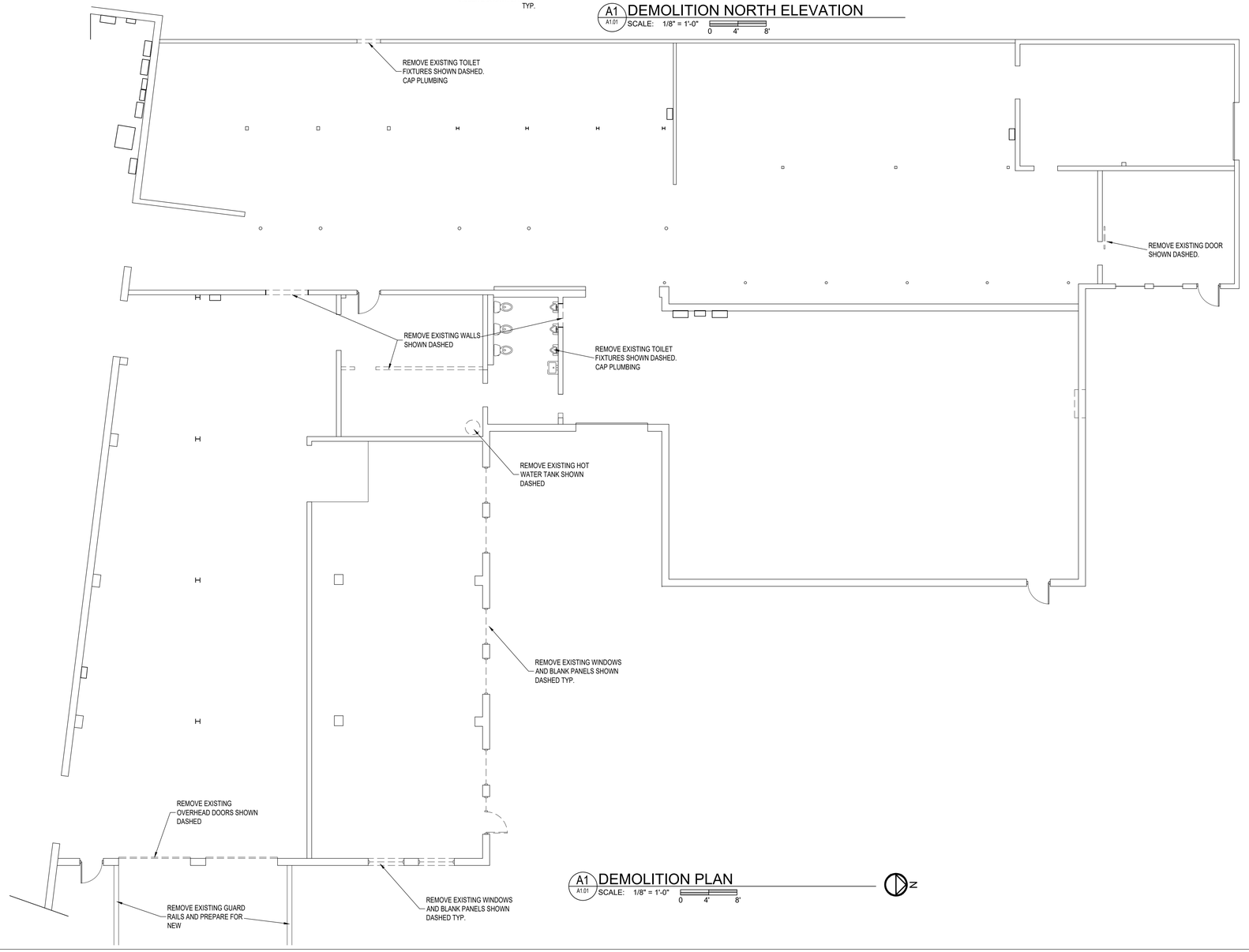
A1 / A1.01 DEMOLITION EAST ELEVATION

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



A1 / A1.01 DEMOLITION NORTH ELEVATION

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



A1 / A1.01 DEMOLITION PLAN

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

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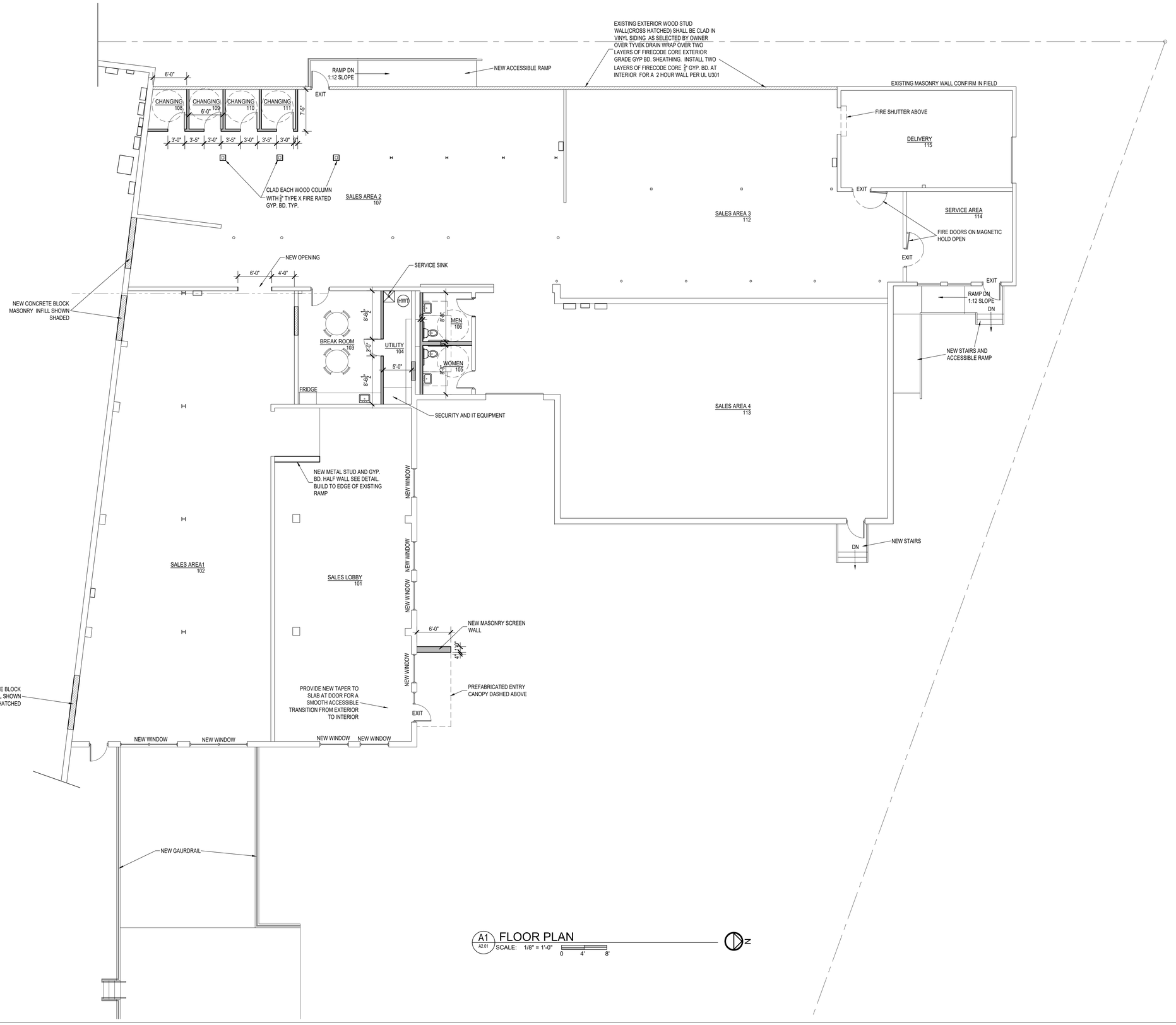
1360 WEST 117TH STREET
LAKEWOOD, OHIO

DEMOLITION PLAN / ELEVATIONS

DESIGN REVIEW 01-16-2025
ABR SUBMITTAL 01-22-2025

SHEET NUMBER:

A1.01



A1 / A2.01 FLOOR PLAN
SCALE: 1/8" = 1'-0"
0 4' 8'

Linkstudio
More Than Architecture
440-313-4672
14095 Country River Lane Newbury, Ohio 44065

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Expiration Date 12/31/2025

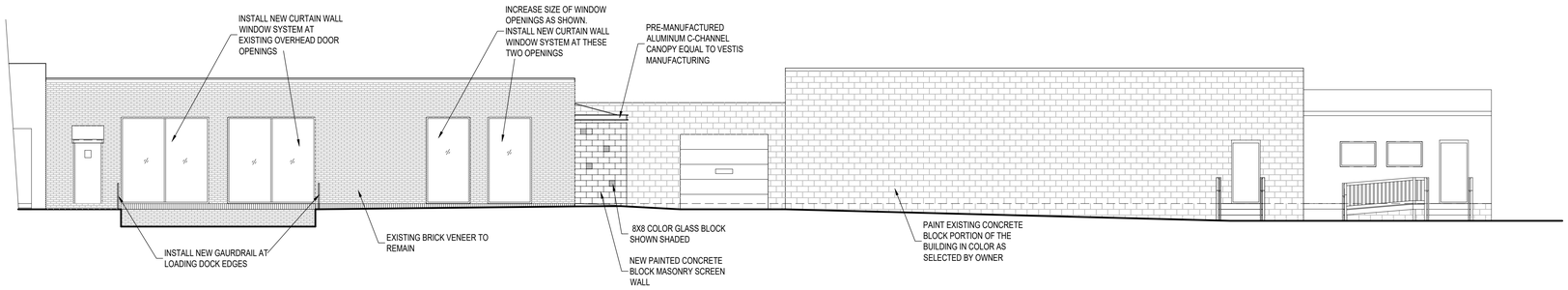
NEW SALES SHOWROOM FOR FLOWER CHILD VINTAGE

1360 WEST 117TH STREET
LAKEWOOD, OHIO

FLOOR PLAN

DESIGN REVIEW 01-16-2025
ABR SUBMITTAL 01-22-2025

SHEET NUMBER:
A2.01

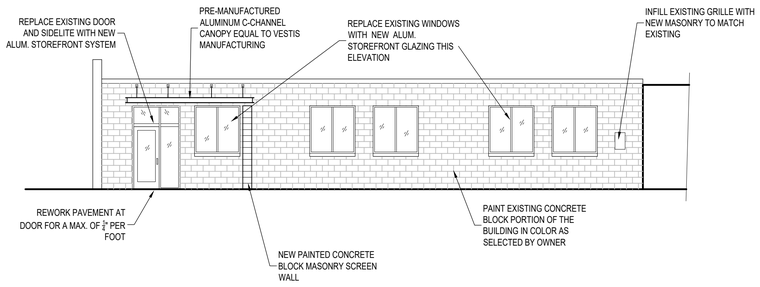


A1 / A3.01 EAST ELEVATION

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

0 4' 8'

GLAZING NOTE: NEW GLAZING SHALL BE CLEAR LOW E DOUBLE PANE INSULATED GLASS. FIELD VERIFY SIZES



A2 / A3.01 NORTH ELEVATION

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

0 4' 8'

Linkstudio
More Than Architecture

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14095 Country River Lane Newbury, Ohio 44065

PRELIMINARY NOT FOR CONSTRUCTION

Joseph V. Linek, License # 1115432
Expiration Date 12/31/2025

NEW SALES SHOWROOM FOR FLOWER CHILD VINTAGE

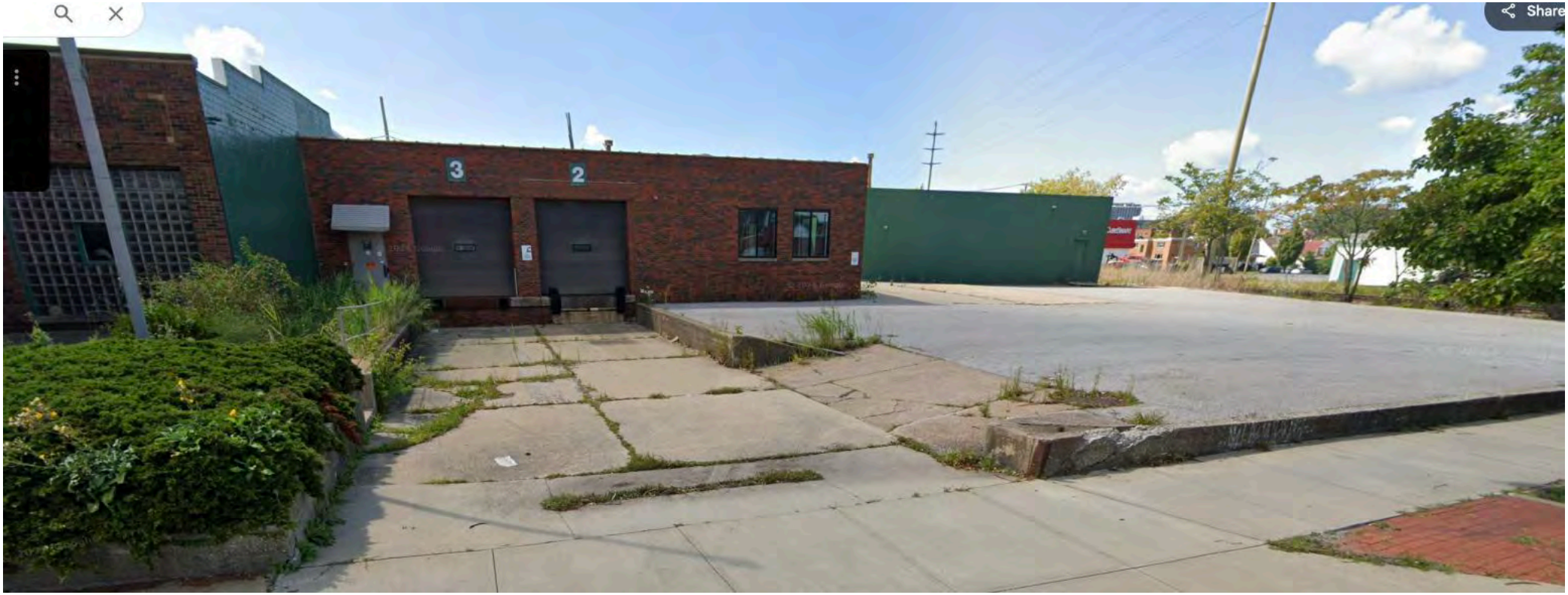
1360 WEST 117TH STREET
LAKEWOOD, OHIO

ELEVATIONS

DESIGN REVIEW 01-16-2025
ABR SUBMITTAL 01-22-2025

SHEET NUMBER:

A3.01


3
2
Share


3
2
PRIVATE
PARKING
ONLY


3
2


PRIVATE
PARKING
ONLY


1









City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-14-25

Permit No.: BBS25-000005

Applicant Name: Joseph Andulics, Standard Wellness

Project Address: 18605 Detroit Ave.

Project Name: Standard Wellness

Project: Applicant proposes exterior renovations for a new business.

STANDARD
WELLNESS

September 27, 2024

City of Lakewood
Planning and Development Department
12650 Detroit
Lakewood, OH 44107

RE: Property Control and Ownership Concurrence for 18605 Detroit Ave, Lakewood, OH 44107

Dear Members of the Commission and Planning and Development Department Staff,

This letter serves to confirm that LAKEWOOD WEST END LLC, as the property owner of the premises located at 18605 Detroit Ave, Lakewood, OH 44107, fully supports the application submitted by *Standard Wellness DBA The Forest Lakewood* for a conditional use permit to operate a dual-use, adult, and medical marijuana dispensary at the above-referenced location.

We acknowledge that Standard Wellness DBA The Forest Lakewood is leasing the property from us and has our complete awareness and concurrence in proceeding with their application to the City of Lakewood. We are aware of the intended use of the space for a marijuana dispensary and provide our full support for this endeavor.

Should you require any further documentation or clarification, please do not hesitate to contact us. Thank you for your attention to this matter.

Sincerely,

Thomas T. George
Member, LAKEWOOD WEST END LLC
26202 Detroit – Ste. 214
Westlake, OH 44145

THE FOREST

18605 DETROIT AVE.
LAKEWOOD, OH 44107

ABBREVIATIONS:

A.C.T.	ACOUSTICAL CEILING TILE
A.D.	AREA DRAIN
A.D.A.	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM.	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATELY
A/V	AUDIO VISUAL
BD.	BOARD
BH	BOLT HEAD
BLDG	BUILDING
BLK.	BLOCK
BM.	BEAM
B.M.D.	BOTTOM OF METAL DECK
B.O./	BOTTOM OF _____
BRG	BEARING
BSMT	BASEMENT
B.U.R.	BUILT UP ROOFING
C.A.T.V	CATEGORY V CABLE
C.F.C.I.	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
C.F.T.I.	CONTRACTOR FURNISHED, TENANT INSTALLED
C.J.	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL.	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACTOR
D	DRYER
D/B OR D.B.	DESIGN BUILD
DBL	DOUBLE
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
EA	EACH
E.C.	ELECTRICAL CONTRACTOR
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
E.P.	ELECTRIC PANEL
E.P.D.M.	CURED SINGLE-PLY SYNTHETIC MEMBRANE
EQ	EQUAL
ETC.	ET CETERA
E.W.C.	ELECTRIC WATER COOLER
EX OR EXIST	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
FDN	FOUNDATION
FG	FIBERGLASS
FIN	FINISH
FL	FLOOR
FR	FRAME
F.R.T.	FIRE RETARDANT TREATED
FTG	FOOTING
FUR	FURRING
F.V.	FIELD VERIFY
F.X.B	FIRE EXTINGUISHER BRACKET
F.X.C.	FIRE EXTINGUISHER CABINET
GA	GAUGE
GALV	GALVANIZED
G.C. OR GEN'L CONTR	GENERAL CONTRACTOR
G.F.I.	GROUND FAULT INTERRUPTED
GL	GLASS OR GLAZING
GR	GRADE
G.S.F.	GROSS SQUARE FEET
GYP. BD.	GYPSUM BOARD
H.B.	HOSE BIBB
HDR	HEADER, DOOR
HDW	HARDWARE
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
H.V.A.C.	HEATING, VENTILATING AND AIR CONDITIONING
I.D.	INSIDE DIAMETER
JST	JOIST
L.A.H.J.	LOCAL AUTHORITY HAVING JURISDICTION
LAV	LAVATORY
LBS	POUNDS
L.F.	LINEAR FOOT OR LINEAL FEET
LL	LOWER LEVEL
L.P.	LOW POINT
LT	LIGHT
LTL	LINTEL
LVR	LOUVER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR OR MANUF	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MH	MANHOLE
MLDG	MOULDING
MULL	MULLION
MMB	MEMBRANE
M.O.	MASONRY OPENING
M.P.	MULTI PURPOSE
MTL	METAL
N.A.	NOT APPLICABLE
N.C.	NO CHANGE
N.I.C.	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFC	OFFICE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
O.H.	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
+/-	PLUS OR MINUS
P.LAMG	PLANTING
PLT	PLANTER
PLYWD OR PW	PLYWOOD
PR	PAIR
PT	PRESSURE TREATED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
R	RISER
R.A.	RETURN AIR
RAD	RADIUS
R.C.P.	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
REF	REFER
REFRIG	REFRIGERATOR
REG'S	REGULATIONS
REQ'D	REQUIRED
RFL	REFLECT
RO	ROUGH OPENING
SAN.SE.	SANITARY SEWER
S.C.	SOLID CORE
SCHD	SCHEDULE
SERV.S.	SERVICE SINK
S.F.	SQUARE FOOT OR SQUARE FEET
SHT	SHEET
SHLF	SHELF
SP	SPEAKER
SPKR	SPRINKLER
S.S.	STAINLESS STEEL
ST	STAIN
STE	SUITE
STO.SE.	STORM SEWER
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE OR STRUCTURAL
SYN	SYNTHETIC
SYS	SYSTEM
T	TEMPERED
T&B	TOP AND BOTTOM
TEL	TELEPHONE
T.F.C.I.	TENANT FURNISHED, CONTRACTOR INSTALLED
T.F.T.I.	TENANT FURNISHED, TENANT INSTALLED
THR	THRESHOLD
TLT	TOILET
TR	TRANSOM
T.O./	TOP OF _____
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
VEST	VESTIBULE
V.F.	VERIFY IN FIELD
VNYL	VINYL
W	WASHER OR WALL
W/ OR W/O	WITH OR WITHOUT
WD	WOOD
W.H.	WATER HEATER

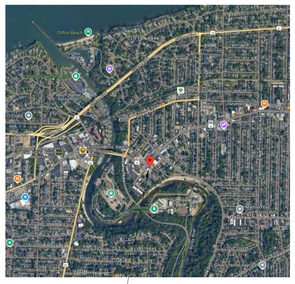
NOTE: FINISH SELECTIONS ABBREVIATIONS ARE NOT ON THIS LIST. REFER TO THE FINISH LEGEND FOR FINISH ABBREVIATIONS.

SYMBOLS LEGEND

- EXISTING WALL - TO REMAIN
- EXISTING WALL - TO BE REMOVED (OR GENERAL DEMOLITION WORK)
- NEW WALL CONSTRUCTION
- NEW DOOR & FRAME
- EXISTING DOOR & FRAME
- 2x2 LED LIGHT FIXTURE
- 2x4 LED LIGHT FIXTURE
- SM — SURFACE MOUNTED LED LIGHT FIXTURE (SIZE VARIES)
- LINEAR TRACK LIGHT
- RECESSED CAN LIGHT FIXTURE (DOWN LIGHT) W/ RINGS & BAFFLES AS REQ'D
- PENDANT OR SURFACE MOUNTED LIGHT FIXTURE
- EXIT LIGHT W/ 90 MIN. BATTERY PACK (CEILING OR WALL MOUNTED)
- EMERGENCY LIGHT W/ 90 MIN. BATTERY PACK
- EMERGENCY / EXIT LIGHT COMBO W/ 90 MIN. BATTERY PACK
- H/S — HORN & STROBE ANNUCIATOR (CEILING OR WALL MOUNTED)
- CAMERA
- SPEAKER (CEILING OR WALL MOUNT)
- EXHAUST FAN (VENTED TO EXTERIOR)
- SUPPLY AIR GRILLE (SIZE VARIES)
- RETURN AIR GRILLE (SIZE VARIES)
- SPRINKLER HEAD
- SD — SMOKE DETECTOR
- CEILING FAN W/ LIGHT
- THERMOSTAT
- DUPLEX OUTLET
- QUADPLEX OUTLET
- GFI — GFI OUTLET
- DED — DEDICATED OUTLET
- DUPLEX FLOOR OUTLET (FLUSH)
- SWITCH
- $3 — SWITCH - THREE-WAY
- $D — SWITCH - DIMMER
- F W — OUTLET - TELEPHONE (F=FAX, W=WALL, NO LETTER INDICATES TYP. TELEPHONE @ 48" A.F.F. UNO
- 4 — OUTLET - DATA (# INDICATES # OF HOMERUN DROPS HOMERUN TO DATA CLOSET)
- N — OUTLET - TELE/DATA (# INDICATES # OF HOMERUN DROPS TO DATA CLOSET)
- WAP — CEILING MOUNTED WIRELESS ACCESS POINT
- TV — OUTLET - CATV
- FD — FLOOR DRAIN
- N — NEW
- E — EXISTING
- R — RELOCATED

MATERIALS LEGEND

- EARTH COMPACTED FILL
- WOOD BLOCKING & FRAMING
- BRICK
- GRANULAR FILL
- SHIM BLOCKING
- FINISH WOOD
- CONCRETE
- CONCRETE MASONRY UNITS
- PLYWOOD
- GYPSUM BOARD - PLASTER
- CAST STONE
- GLASS
- STEEL
- VINYL SOFFIT
- RIGID INSULATION
- BATT INSULATION



LAKEWOOD OHIO — 18605 DETROIT EXTENSION

PROJECT LOCATION

N

DETAIL SYMBOLS

- A1-01 A — Exterior
- A1-01 A — Interior — ELEVATION REFERENCE
- 1 A101 SIM — WALL SECTION REFERENCE
- 1 A101 SIM — BUILDING SECTION REFERENCE
- 1 A101 SIM — CALL OUT REFERENCE
- 1 A101 SIM — DETAIL REFERENCE
- 1 A101 — DRAWING VIEW TITLE / DRAWING VIEW SCALE
- A100 MATCH — A100 MATCH — MATCH LINE REFERENCE
- D# — DEMO PLAN KEYED NOTE ALSO DENOTED BY "D" SERIES
- # — FLOOR PLAN KEYED NOTE ALSO DENOTED BY 100 SERIES NUMBERS
- # — RCP PLAN KEYED NOTE ALSO DENOTED BY 200 SERIES NUMBERS
- # — GLAZED OPENING REFERENCE
- X — TOILET ACCESSORY KEY
- P1 — PARTITION TYPE REFERENCE
- Room name / 101 / FLOOR FINISH / BASE FINISH / WALL FINISH — ROOM NAME AND NUMBER
- 0 — COLUMN CENTER LINE REFERENCE
- 101 — DOOR AND DOOR NUMBER
- DATUM INDICATION/LEVEL
- VCT CPT — FLOOR MATERIAL REFERENCE
- 1 — REVISION CLOUD AND TAG

DISCLAIMER OF RESPONSIBILITY

WE SPECIFY (PURSUANT TO APPLICABLE STATE REGULATIONS) THAT DRAWINGS AUTHENTICATED BY OUR ORIGINAL SIGNATURE AND SEAL ARE LIMITED TO THE ARCHITECTURAL CONSTRUCTION DOCUMENTS & THAT THESE DRAWINGS HAVE BEEN PREPARED BY OR UNDER OUR DIRECT SUPERVISION. WE THEREFORE DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, DRAWINGS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY ONE OF THE DESIGN PROFESSIONALS LISTED BELOW, RELATED TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THESE DRAWINGS REFER.

VERVE DESIGN STUDIO:
KURTIS R. KRUEGER, PRINCIPAL ARCHITECT
GEOFFREY L. CROWLEY, PRINCIPAL ARCHITECT

ALTERNATES

G.C. TO COORDINATE W/ OWNER FOR ALTERNATE SELECTION

1. KN D139 - ALTERNATE TO KEEP EXISTING WOOD PERIMETER FINISH THROUGHOUT CHECK-IN / WAITING. UTILIZE SALVAGED WOOD TO INFILL , PATCH AND REPAIR. PAINT AS SCHEDULED.
2. KN 105 - ALTERNATE TO KEEP EXISTING PERIMETER BRICK EXPOSED THROUGHOUT CHECK-IN / WAITING. PATCH AND REPAIR AS NEEDED FOR CLEAN FINISH.
3. ALL EXTERIOR TO BE PAINTED **PT-7**; COLOR TBD BY OWNER

DRAWING INDEX

GENERAL	
G101	SYMBOLS AND ABBREVIATIONS
G102	CODE SUMMARY, LIFE SAFETY
G103	ACCESS CONTROL PLAN
ARCHITECTURAL	
AS100	ARCHITECTURAL SITE PLAN
AD100	DEMOLITION FLOOR PLANS
AD101	DEMOLITION REFLECTED CEILING PLANS
A100	FLOOR PLANS
A102	REFLECTED CEILING PLANS
A200	EXTERIOR ELEVATIONS
A300	BUILDING SECTIONS
A400	ENLARGED FLOOR PLANS
A500	PARTITION TYPES & DETAILS
A501	DETAILS CONT.
A502	CEILING DETAILS
A600	DOOR AND OPENING SCHEDULE
A700	INTERIOR ELEVATIONS
A701	INTERIOR ELEVATIONS
A800	CASEWORK DETAILS
A801	CASEWORK DETAILS
MECHANICAL	
MEP001	MEP SPECIFICATIONS AND NOTES
M001	MECHANICAL SYMBOLS AND NOTES
M101	FLOOR PLAN - MECHANICAL
M501	MECHANICAL SCHEDULES AND DETAILS
ELECTRICAL	
E001	ELECTRIC SYMBOLS AND NOTES
E101	FLOOR PLAN - POWER
E201	FLOOR PLAN - LIGHTING
E501	ELECTRIC SCHEDULES AND DETAILS
EN001	ENERGY COMPLIANCE
EN002	ENERGY COMPLIANCE
EN003	ENERGY COMPLIANCE
PLUMBING	
P001	PLUMBING SYMBOLS AND NOTES
P101	FLOOR PLAN - PLUMBING
P501	PLUMBING SCHEDULES AND DETAILS
INTERIORS	
I100	INTERIOR PLANS
I600	FINISH SCHEDULE

PLUMBING NOTES

1. REFER TO PLUMNING DRAWINGS.

MECHANICAL NOTES

1. REFER TO MECHANICAL DRAWINGS.

ELECTRICAL NOTES

1. REFER TO ELECTRICAL DRAWINGS.

FIRE EXTINGUISHER NOTES

1. GENERAL CONTRACTOR TO PROVIDE & INSTALL BLDG. STANDARD FIRE EXTINGUISHERS THROUGH OUT THE SPACES PER ALL LOCAL CODE REQUIREMENTS & THE LOCAL FIRE MARSHAL. SECT. 906 IFC MAXIMUM SPACING **75' O.C. ALLOWED**

ALARM NOTES

1. DESIGN BUILD CONTRACTOR TO REWORK AND MODIFY ALARM SYSTEM AS REQ'D BY LOCAL AUTHORITIES INCLUDING ENGINEERING & PERMITTING.
2. DESIGN BUILD ALARM CONTRACTOR TO INSTALL/EXTEND/REWORK EXIST. ALARM SYSTEM AS REQ'D BY ALL LOCAL BLDG. CODES AND PER NFPA72. VERIFY EXIST. CONDITIONS & REQUIREMENTS W/ LOCAL BLDG. OFFICIALS & FIRE MARSHAL.
3. DESIGN BUILD ALARM CONTRACTOR TO OBTAIN ALL REQ'D PERMITS. INDICATE ON DRAWINGS FOR LOCAL BLDG. OFFICIALS & FIRE MARSHAL THE EXIST. AND PROPOSED LOCATIONS OF PULL STATIONS AND HORNS/STROBES AS REQ'D.

GENERAL NOTES

1. ALL ABANDON SERVICES AND EQUIPMENT TO BE REMOVED THROUGHOUT ENTIRE BUILDING.
2. ALL RESTAURANT EQUIPMENT TO BE REMOVED; COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
3. COLUMN LINE 7 IS TO BE INVESTIGATED FOR EXISTING STRUCTURAL SYSTEMS. CONSULT STRUCTURAL ENGINEER FOR PROPOSED IMPROVEMENTS. ARCHITECT IS TO BE NOTIFIED OF ANY SIGNIFICANT IMPACTS TO DESIGN.

TENANT FINISH PROJECT DATA

DEVELOPMENT/BUILDING NAME: THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

PROJECT NAME: THE FOREST

PROJECT DESCRIPTION: REMODEL FOR NEW TENANT

DESIGN CODES: MUNICIPALITY: CITY OF LAKEWOOD, OH
2024 OHIO BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
2024 OHIO EXISTING BUILDING CODE
2024 OHIO MECHANICAL CODE
2024 OHIO PLUMBING CODE
2023 OHIO ELECTRIC CODE
2017 OHIO FIRE CODE w/ JANUARY 2019 ERRATA
2015 INTERNATIONAL PROPERTY MAINTENANCE CODE
2017 OHIO ENERGY CODE
2015 INTERNATIONAL FUEL GAS CODE
ACCESSIBILITY: 2009 ICC A117.1 ACCESSIBLE CODE

TYPE OF CONSTRUCTION: IIB

BUILDING MATERIALS: STRUCTURE: STEEL FRAME AND BAR JOISTS
EXTERIOR WALLS: METAL STUDS AND BRICK VENEER
INTERIOR PARTITIONS: GYPSUM BOARD ON METAL STUDS
CEILING: SUSPENDED ACOUSTICAL TILE, WOOD SLATS, GYPSUM BOARD

FIRE RESISTANCE RATINGS: TABLE 601 (2024 OBC)

PRIMARY STRUCTURAL FRAME:	0-HOUR
BEARING WALLS	
EXTERIOR:	0-HOUR
INTERIOR:	0-HOUR
NONBEARING WALLS AND PARTITIONS	
EXTERIOR:	0-HOUR
INTERIOR	0-HOUR
FLOOR CONSTRUCTION:	0-HOUR
ROOF CONSTRUCTION:	0-HOUR
EXIT ENCLOSURES:	0 HOUR

TABLE 1020.2 (2024 OBC)
CORRIDOR FIRE-RESISTANCE: 1 HOUR

FIRE PROTECTION: NON-SPRINKLERED, A/V ALARM

USE GROUP: NON-SEPARATED M - MERCANTILE, B-BUSINESS & S-1 - STORAGE

EXISTING BUILDING HEIGHT: 1 OF STORIES BELOW GRADE
2 STORIES ABOVE GRADE
28 FEET ABOVE GRADE (APPROXIMATE)

EXISTING FLOOR AREA: LOWER LEVEL: 2,117 S.F. (APPROXIMATE)
GROUND FLOOR: 2,300 S.F. (APPROXIMATE)

TENANT AREA: 4,417 S.F. (APPROXIMATE)

OCCUPANT LOAD: TABLE 1004.5 (2024 OBC)
M-MERCANTILE: 2,361 / 60 = 40 OCCUPANTS
B-BUSINESS: 1,262 / 150 = 9 OCCUPANTS
S-1 STORAGE: 794 / 300 = 3 OCCUPANTS
TOTALL OCCUPANTS: **52**

NO. OF EXITS: SECTION 1006 (2024 OBC)
2 REQUIRED, 4 PROVIDED

COMMON PATH OF TRAVEL: SECTION 1006.2.1 (2024 OBC)
14 FEET APPROX. (75 FEET ALLOWED)

EXIT ACCESS TRAVEL DISTANCE: TABLE 1017.2 (2024 OBC)
120 FEET APPROX. (200 FEET ALLOWED)

TENANT: THE FOREST
ADDRESS
CITY, STATE, ZIP
(707) 971-0889
VINCENT HARDING

ARCHITECT: VERVE DESIGN STUDIO
1558 S. BROADWAY
ST. LOUIS, MO 63104
(314) 822 - 4007
WWW.VERVEDS.COM
CONTACT: KURT KRUEGER/GEOFF CROWLEY

GENERAL CONDITIONS: TENANT FINISH

1. THE G.C. SHALL OBSERVE ALL REGULATIONS IMPOSED BY THE APPROPRIATE GOVERNING BODIES, & ALL WORK SHALL COMPLY W/ THE REQUIREMENTS OF THE BUILDING CODES, ACCIDENT & FIRE PREVENTION REGULATION COMPLIANCE; ALL MATERIALS, EQUIPMENT, WORKMANSHIP, WORKING CONDITIONS, & CONSTRUCTION METHODS SHALL COMPLY W/ THE LATEST APPLICABLE SECTIONS OF LOCAL, MUNICIPAL, COUNTY, STATE, & FEDERAL CODES, ORDINANCES, & THE STANDARD REQUIREMENTS OF THE BLDG. CODE, ADA, & /OR LANDLORD.
2. G.C. TO VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO STARTING ANY CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES AT THE BLDG. SITE.
3. G.C. TO VERIFY ALL EXIST. CONDITIONS SHOWN ON DRAWINGS & CONSTRUCT ALL NEW WORK IN A NEAT & APPROVED MANNER.
4. ESTABLISH & VERIFY ALL OPENINGS & INSERTS FOR MECHANICAL & ELECTRICAL WORK AS REQ'D FOR THEIR INSTALLATION & PER DRAWINGS.
5. PROVIDE ALL NECESSARY TEMPORARY BRACING, SHORING, GUYING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES & TO HOLD STRUCTURAL ELEMENTS IN PLACE.
6. THE G.C. IS RESPONSIBLE FOR SAFETY & SECURITY IN & AROUND THE JOB SITE DURING CONSTRUCTION.
7. THE A.I.A. GENERAL CONDITIONS (FORM A-201 LATEST ISSUE) SHALL GOVERN & BE PART OF THIS PROJECT.
8. THE G.C. SHALL SUBMIT FOR , PAY, & SECURE ALL APPROVALS, BLDG. PERMITS, FIRE PERMITS, TEST, & CERTIFICATES OF COMPLIANCE & OCCUPANCY.
9. THE DIMENSIONS ON THESE DRAWINGS IN ALL CASES SUPERSEDE SCALE. CONTRACTOR IS NOT TO SCALE DRAWINGS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RUBBISH SWEPT UP & REMOVED. UPON COMPLETION OF WORK, HE SHALL LEAVE WORK IN A FINISHED CONDITION.
11. IT WILL BE THE DUTY OF THE CONTRACTOR, AS WELL AS THE SUBCONTRACTORS EMPLOYED, TO COMMUNICATE IMMEDIATELY W/ EACH OTHER IN ORDER TO SCHEDULE WORK, STORAGE AREAS, ETC. IN A MANNER & WITH IN THE TIME SPECIFIED.
12. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO OWNER'S OR OTHERS PROPERTY DONE BY HIM OR MEN IN HIS EMPLOY, OR THROUGH NEGLIGENCE.
13. EACH CONTRACTOR SHALL LOCATE TENANT SPACE, DEMISING PARTITIONS, FIRE WALLS, TENANT SEPARATION , ESTABLISH BLDG. LINES, BENCH MARKS, FINISH FLOOR ELEVATIONS, LAYOUT FOR PARTITIONS & OPENINGS.
14. NOTE: ALL UTILITIES & STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION & THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. CONTRACTORS TO NOTIFY THE UTILITY COMPANIES BEFORE ACTUAL CONSTRUCTION.,
15. MECH., ELECTRICAL, PLUMBING, & SPRINKLER CONTRACTORS SHALL FURNISH ALL NECESSARY (SEALED) DRAWINGS & CALCULATIONS, ISOMETRIC DRAWINGS, SHOWING EXACT &/OR PROPOSED LOCATIONS OF SOIL, WASTE, VENT PIPING, DRAINAGE SYSTEM, WATER LINES, GAS PIPING, WATER HEATER, HVAC, ELEC. SERVICE RISERS, METERS, & LIGHT FIXTURES.
16. ALL ARCHITECTURAL DRAWINGS ARE IN CONFIDENCE OR DISSEMINATION MAY NOT BE MADE WITH OUT PRIOR WRITTEN CONSENT OF THE ARCHITECT. ALL COMMON LAW RIGHTS OF COPYRIGHTS & OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.
17. THE G.C. IS RESPONSIBLE FOR ERECTING & MAINTAINING A JOB SIGN PROVIDED BY VERVE DESIGN STUDIO. LOCATE IN A PROMINENT LOCATION ON THE JOB SITE DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT THE SIGN SHALL BE RETURNED TO THE ARCHITECT.

VERVE DESIGN STUDIO
1558 S. BROADWAY
ST. LOUIS, MISSOURI 63104
314-822-4007
www.VERVEDS.com

ANVIL AGRINOMICS
ANVIL AGRINOMICS LLC
6002 MONROVIA ST.
SHAWNEE, KS 66216
913-226-7077
STATE OF OHIO CERTIFICATE OF AUTHORITY # 07116

STATE OF OHIO — GEOFFREY L CROWLEY — ARC/1316023 — REGISTERED ARCHITECT — 12-23-2024

GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

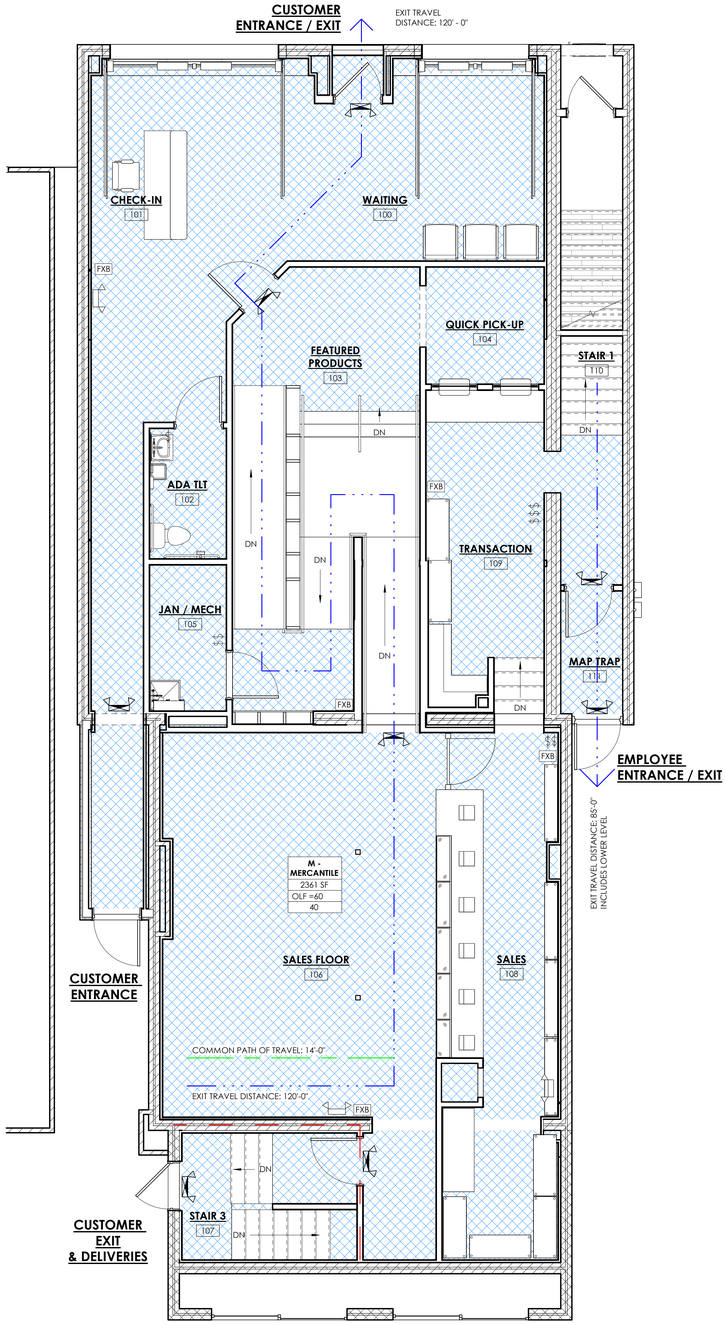
ISSUE DATE: 12/23/2024

SHEET NAME: SYMBOLS AND ABBREVIATIONS

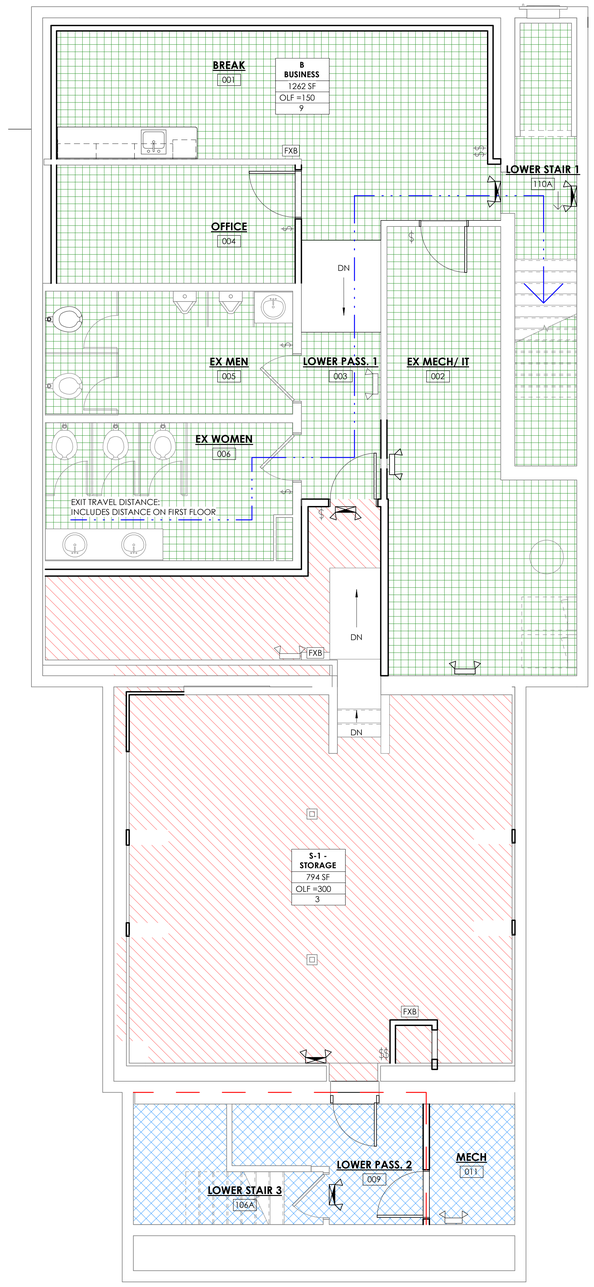
SHEET NO. **G101**

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12/23/2024 10:57:54 AM C:\Users\ncarlsted\Documents\24071 Standard Wellness - Lakewood OH - SELECTED OPTION _ CENTRAL_ncarlsted.rvt



1 G102 FIRST FLOOR LIFE SAFETY PLAN
1/4" = 1'-0"



2 G102 LOWER LEVEL LIFE SAFETY PLAN
1/4" = 1'-0"

LEGEND - LIFE SAFETY

Name / 150 / OLF =X/XXX / XXX PERSONS	LIFE SAFETY TAG: OCCUPANCY CLASSIFICATION; AREA SQUARE FOOTAGE; OCCUPANCY LOAD FACTOR; OCCUPANCY COUNT
AC / AL	EGRESS TAG: AC = ACTUAL, AL = ALLOWABLE
	EMERGENCY LIGHT W/ 1HR BATTERY PACK
	EMERGENCY / EXIT LIGHT COMBO W/ 1HR BATTERY PACK; SHADE REPRESENTS LIT EXIT SIGN FACE
	ARROW REPRESENTS DIRECTION OF EXIT PATH
	1 HR RATED PARTITION
	2 HR RATED PARTITION
	COMMON PATH OF TRAVEL (75' MAX)
	EXIT TRAVEL DISTANCE PATH (200' MAX)
	DEAD END CORRIDOR PATH (20' MAX)
FEC	FIRE EXTINGUISHER CABINET
FXB	FIRE EXTINGUISHER BRACKET
SD	SMOKE DETECTOR
H/S	HORN & STROBE ANNUCIATOR (CEILING OR WALL MOUNTED)

LIFE SAFETY LEGEND

- B BUSINESS
- M - MERCANTILE
- S-1 - STORAGE
- Calculation Failed

GENERAL LIFE SAFETY NOTES:

1. GENERAL CONTRACTOR TO PROVIDE & INSTALL BLDG. STANDARD FIRE EXTINGUISHERS THROUGH OUT THE SPACES PER ALL LOCAL CODE REQUIREMENTS & THE LOCAL FIRE MARSHAL. SECT. 906 IFC. SEE G101 FOR MAXIMUM SPACING.
2. EMERGENCY LIGHTING TO BE CONNECTED TO 90 MIN. BATTERY BACKUP. REFER TO ELECTRICAL LIGHTING PLANS.

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STATE OF OHIO CERTIFICATE OF AUTHORITY # 07116

STATE OF OHIO
GEOFFREY L CROWLEY
ARC/1316023
REGISTERED ARCHITECT
12-23-2024
GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

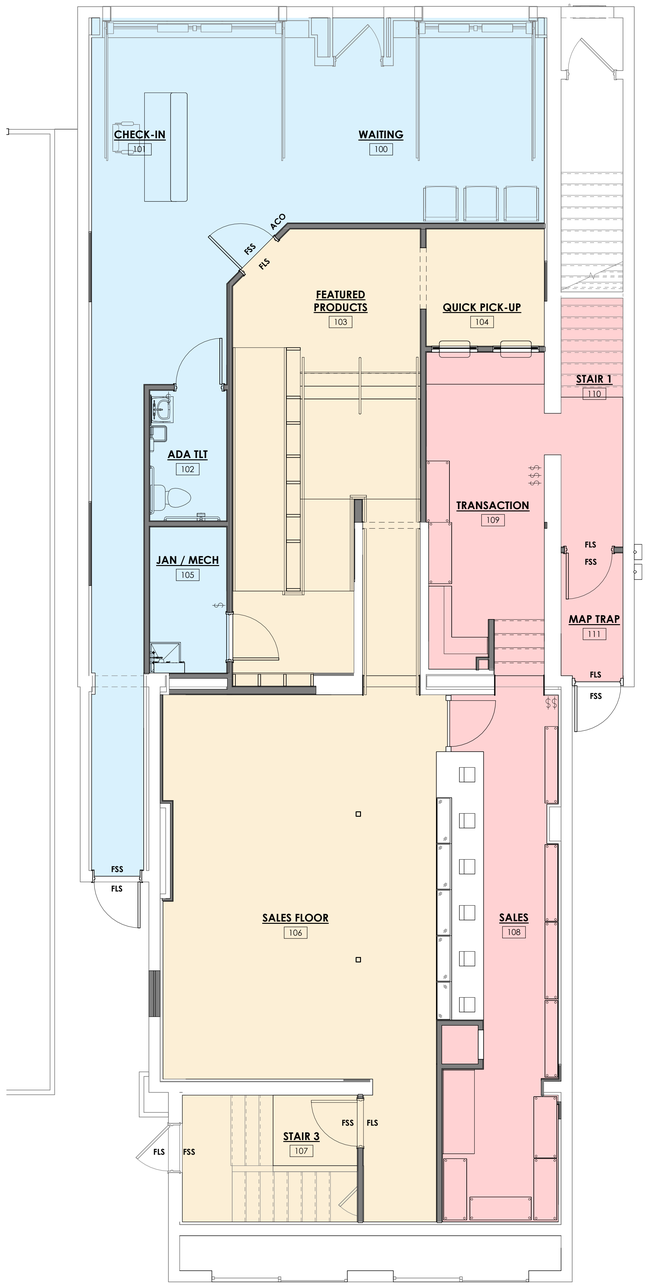
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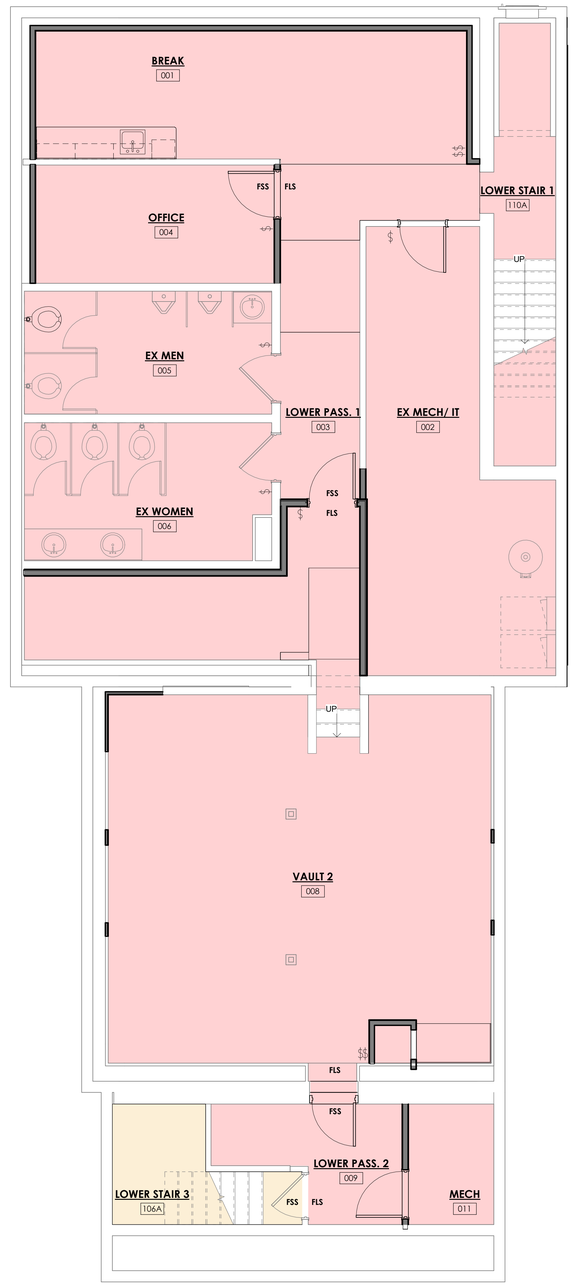
VERVE PROJECT NO.: 24071
ISSUE DATE: 12/23/2024
SHEET NAME: CODE SUMMARY, LIFE SAFETY
SHEET NO. G102

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1 G103 FIRST FLOOR - ACCESS CONTROL PLAN
1/4" = 1'-0"



2 G103 LOWER LEVEL - ACCESS CONTROL PLAN
1/4" = 1'-0"

ACCESS LEGEND

	PUBLIC ACCESS
	LIMITED ACCESS
	RESTRICTED ACCESS
EEO	EMERGENCY EXIT ONLY
ACO	ACCESS CONTROL OPENING*
DACO	DUAL AUTHENTICATION ACCESS CONTROL OPENING*
FLS	FAIL SAFE
FSS	FAIL SECURE
NOTE:	***LABEL FOR ACCESS CONTROL ON CONTROL PAD SIDE OF DOOR**

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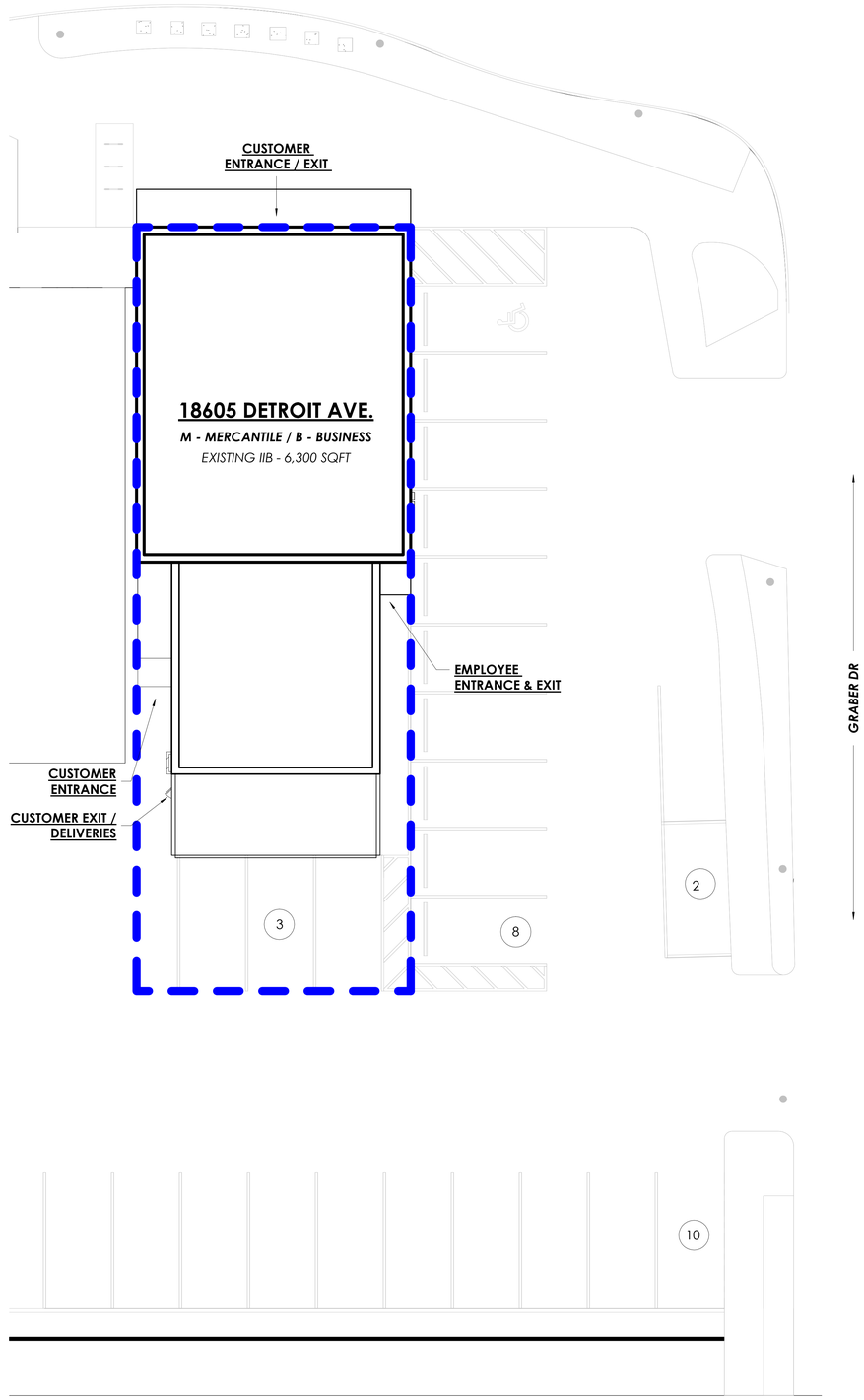
VERVE PROJECT NO.: 24071
ISSUE DATE: 12/23/2024

SHEET NAME: ACCESS CONTROL PLAN

SHEET NO. **G103**

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1 AS100 ARCHITECTURAL SITE PLAN
1/8" = 1'-0"

ARCHITECTURAL SITE PLAN DISCLAIMER:

VERVE DESIGN STUDIO IS NOT A LICENSED SURVEYOR, CIVIL ENGINEER OR LANDSCAPE ARCHITECT. THIS DRAWING/PLAN HAS BEEN DEVELOPED USING RECORD OR AVAILABLE SURVEY, TOPOGRAPHIC, DRAINAGE AND UTILITY INFORMATION. THE DESIGN OF THE SITE IMPROVEMENTS, INCLUDING FINAL GRADES, SEWERS, DRAINAGE, UTILITIES AND PAVING IS STRICTLY PRELIMINARY HAVING BEEN BASED UPON SUCH AVAILABLE INFORMATION. THE PROPOSED IMPROVEMENTS ARE SUBJECT TO REVISION DURING FINAL ENGINEERING DESIGN, AGENCY APPROVAL AND REVIEW BY UTILITY COMPANIES. THIS DRAWING IS NOT FOR CONSTRUCTION. ALL INFORMATION ON THIS ARCHITECTURAL SITE PLAN IS TO IDENTIFY AND NOTE EXTERIOR ARCHITECTURAL FEATURES ONLY AND SHALL NOT BE TAKEN AS ENGINEERED SITE DRAWINGS. THE OWNER IS RESPONSIBLE FOR CONTRACTING FOR A FULL TOPOGRAPHIC/BOUNDARY SURVEY AND GEOTECHNICAL ANALYSIS BY A LICENSED SURVEYOR/ENGINEER BEFORE PROCEEDING WITH THIS PROJECT.

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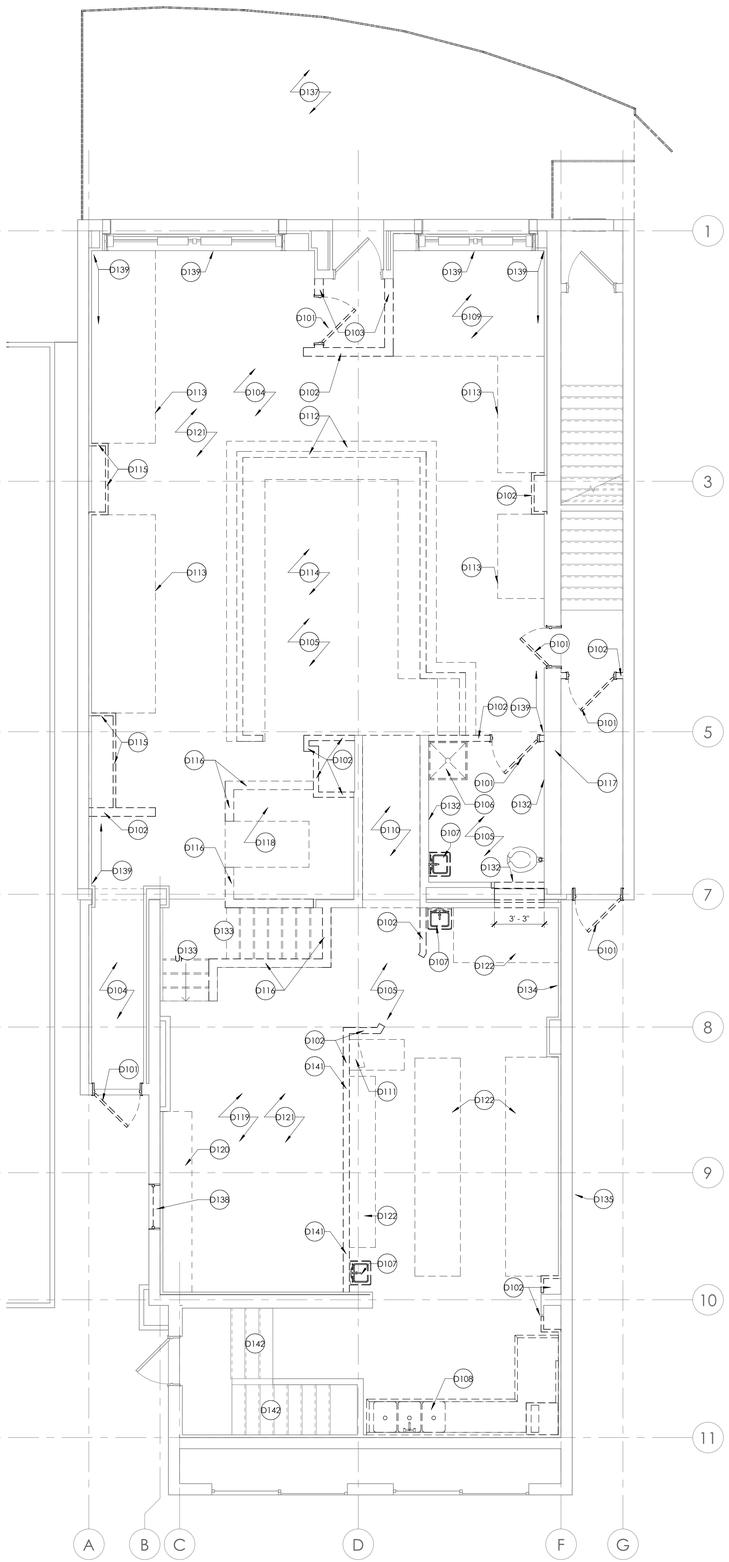
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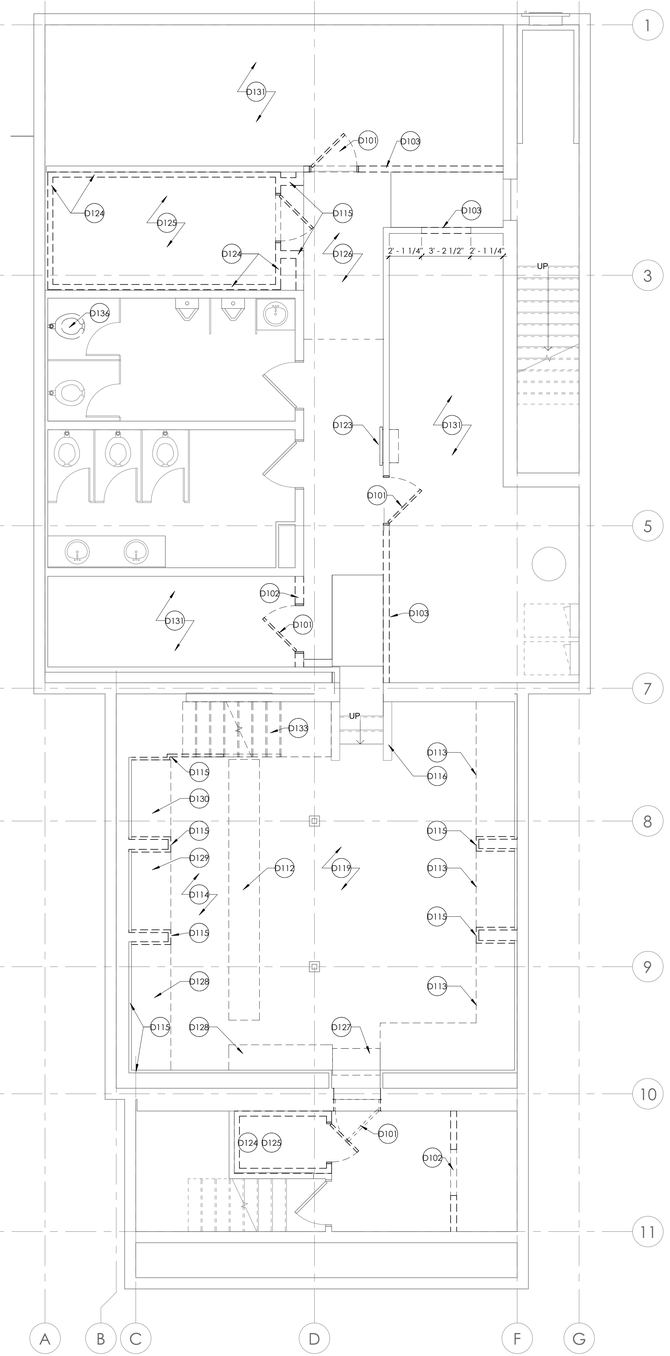
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1 AD100 FIRST FLOOR DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 AD100 LOWER LEVEL DEMOLITION FLOOR PLAN
1/4" = 1'-0"

KEYNOTES - DEMOLITION FLOOR PLAN

#	NOTE
D101	REMOVE DOOR AND FRAME.
D102	REMOVE PARTITION IN ITS ENTIRETY - TAKE ALL PLUMBING AND ELECTRICAL COMPONENTS BACK TO FURTHEST POINT OF TERMINATION.
D103	REMOVE PORTION OF PARTITION AS SHOWN TO ACCOMODATE NEW WORK PLAN.
D104	REMOVE CERAMIC TILE FLOORING / MASTIC IN ITS ENTIRETY - PREP FOR INSTALLATION OF NEW FINISH AS SCHEDULED.
D105	REMOVE QUARRY TILE FLOORING / MASTIC IN ITS ENTIRETY - PREP FOR INSTALLATION OF NEW FINISH AS SCHEDULED.
D106	REMOVE MOP SINK TAKE ALL PLUMBING COMPONENTS BACK TO FUTHEST POINT OF TERMINATION.
D107	REMOVE WALL HUNG HAND SINK TAKE ALL PLUMBING COMPONENTS BACK TO FUTHEST POINT OF TERMINATION.
D108	REMOVE 3 COMPARTMENT SINK TAKE ALL PLUMBING COMPONENTS BACK TO FUTHEST POINT OF TERMINATION.
D109	REMOVE RAISED FLOOR IN ITS ENTIERTY TAKE ALL ELECTRICAL COMPONENTS BACK TO FUTHEST POINT OF TERMINATION.
D110	REMOVE QUARRY TILE & RAMP IN ITS ENTIRETY.
D111	REMOVE ELECTRIC PANEL. REFER TO ELEC DWGS.
D112	REMOVE BAR IN ITS ENTIRETY - TAKE ALL ELECTRICAL AND PLUMBING BACK TO FUTHEST POINT OF TERMINATION.
D113	REMOVE BOOTH SEATING IN ITS ENTIRETY.
D114	REMOVE ALL BAR EQUIPMENT - COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D115	REMOVE FURRING - TAKE ALL ELECTRICAL AND PLUMBING BACK TO FUTHEST POINT OF TERMINATION.
D116	REMOVE LOW WALL - TAKE ALL ELECTRICAL AND PLUMBING BACK TO FUTHEST POINT OF TERMINATION.
D117	REMOVE PORTION OF MASONRY WALL FOR NEW OPENING - SEE STRUCTURAL DOCUMENTS FOR TEMPORARY SHORING.
D118	REMOVE RAISED BOOTH SEATING AREA.
D119	REMOVE WOOD FLOORING.
D120	REMOVE BUILT IN COUNTER.
D121	REMOVE ALL FURNITURE.
D122	REMOVE ALL KITCHEN EQUIPMENT - COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D123	REMOVE ATM - COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D124	REMOVE COOLER WALLS - COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D125	REMOVE COOLER FLOOR - COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D126	REMOVE PORTION OF QUARRY TILE TO LINE.
D127	REMOVE STEP.
D128	REMOVE BUILT-IN COUNTER.
D129	REMOVE REFRIGERATOR.
D130	REMOVE CASEWORK.
D131	REMOVE ALL UNUSED EQUIPMENT - COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D132	REMOVE FRP FROM WALL.
D133	REMOVE STAIRS / RAILINGS IN THEIR ENTIRETY.
D134	REMOVE WINDOW AIR CONDITIONING UNIT.
D135	REMOVE ALL HOOD DUCTWORK FROM EXTERIOR OF BUILDING & ROOF.
D136	REMOVE CRACKED TOILET FIXTURE.
D137	REMOVE LOW FENCE IN IT'S ENTIRETY. COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D138	DEMO WINDOW - PREP FOR INFILL TO MATCH EXISTING ADJACENT EXTERIOR & INTERIOR.
D139	EXISTING WOOD TRIM WRAPING PERIMETER OF OVERHEAD DOORS TO REMAIN - SEE ELEVATIONS FOR DETAILS.
D141	G.C. TO VERIFY EXISTING STRUCTURE - PROVIDE TEMPORARY SHORING AS REQUIRED PRIOR TO INSTALLATION OF NEW COLUMNS TO MAINTAIN STRUCTURAL INTEGRITY.
D142	REMOVE RUBBER TREADS FROM EXISTING STAIRS - TO BE REPLACED IN NEW WORK.

GENERAL DEMOLITION NOTES:

1. G.C. TO FURNISH ALL LABOR, MATERIALS & EQUIPMENT NECESSARY TO COMPLETE ALL DEMOLITION WORK INDICATED ON THE DRAWINGS, SPECIFIED & REQ'D BY NEW WORK SHOWN.
2. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE W/ LOCAL BUILDING & FIRE PREVENTION REGULATIONS IN SUCH A MANNER AS TO MINIMIZE DAMAGE TO ADJACENT PROPERTY, MATERIALS, & FINISHES NOT BEING ALTERED BY PROPOSED NEW CONSTRUCTION.
3. CONTRACTORS SHALL: REMOVE PROMPTLY & LEGALLY ALL ACCUMULATED DEBRIS, PROTECT ALL EXPOSED PORTIONS OF WORK FROM THE ELEMENTS, AVOID OVERLOADING STRUCTURE, & SECURELY STORE ALL ITEMS TO BE REUSED.
4. ALL SALVAGED MATERIALS, UNLESS OTHERWISE NOTED ON THE PLANS TO BE REUSED, & AFTER OWNER'S VERIFICATION, SHALL BECOME PROPERTY OF THE CONTRACTOR, & SHALL BE PROMPTLY REMOVED FROM THE JOB SITE.
5. REGARD ARCHITECTURAL/STRUCT. DEMOLITION DRAWINGS FOR WALLS & OPENINGS TO BE REMOVED. CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, &/OR OTHER MEANS TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING NEW CONSTRUCTION.
6. ALL ABANDONED &/OR EXISTING TO BE REMOVED MEP, FP, VOICE, DATA ETC., INFRASTRUCTURE ITEMS ARE TO BE TAKEN BACK TO THE SOURCE OR FURTHEST TERMINATION POINT ALLOWED.

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CONSTRUCTION DOCUMENTS

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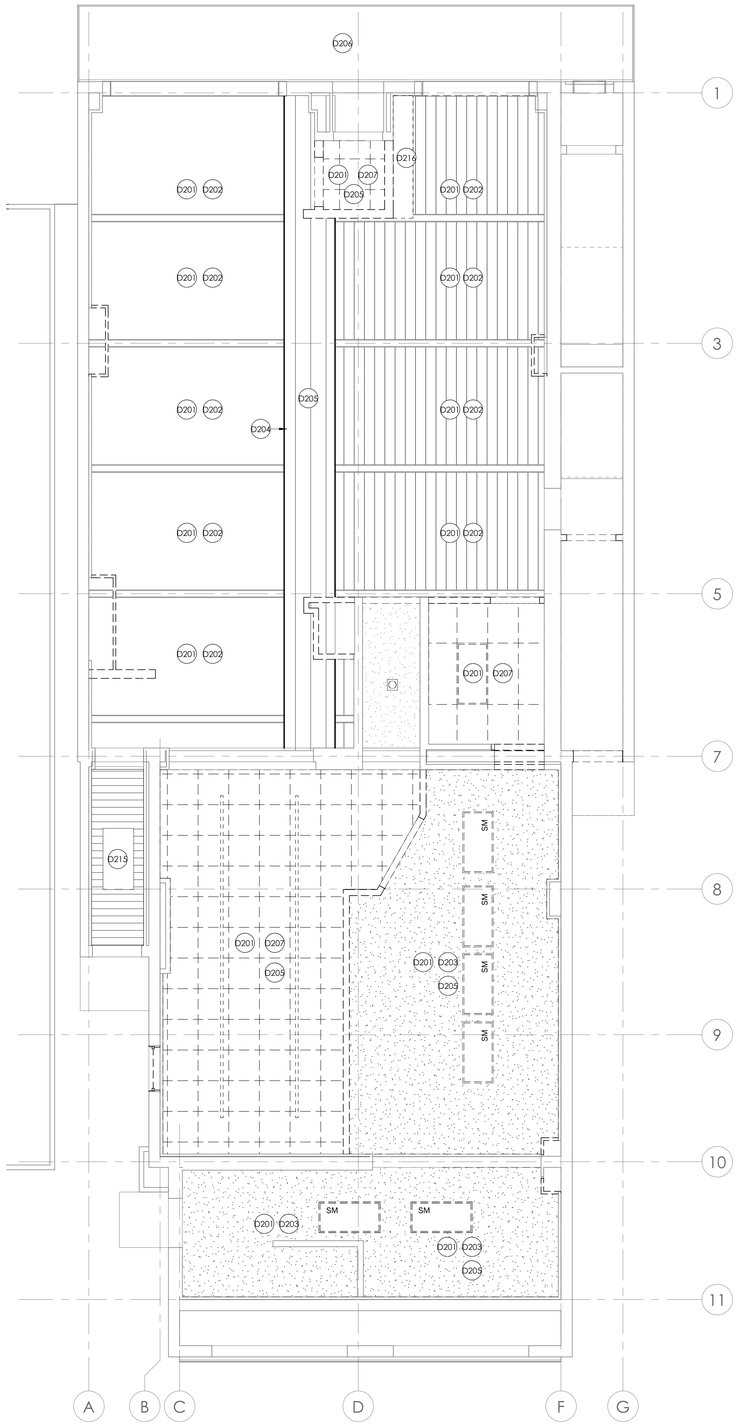
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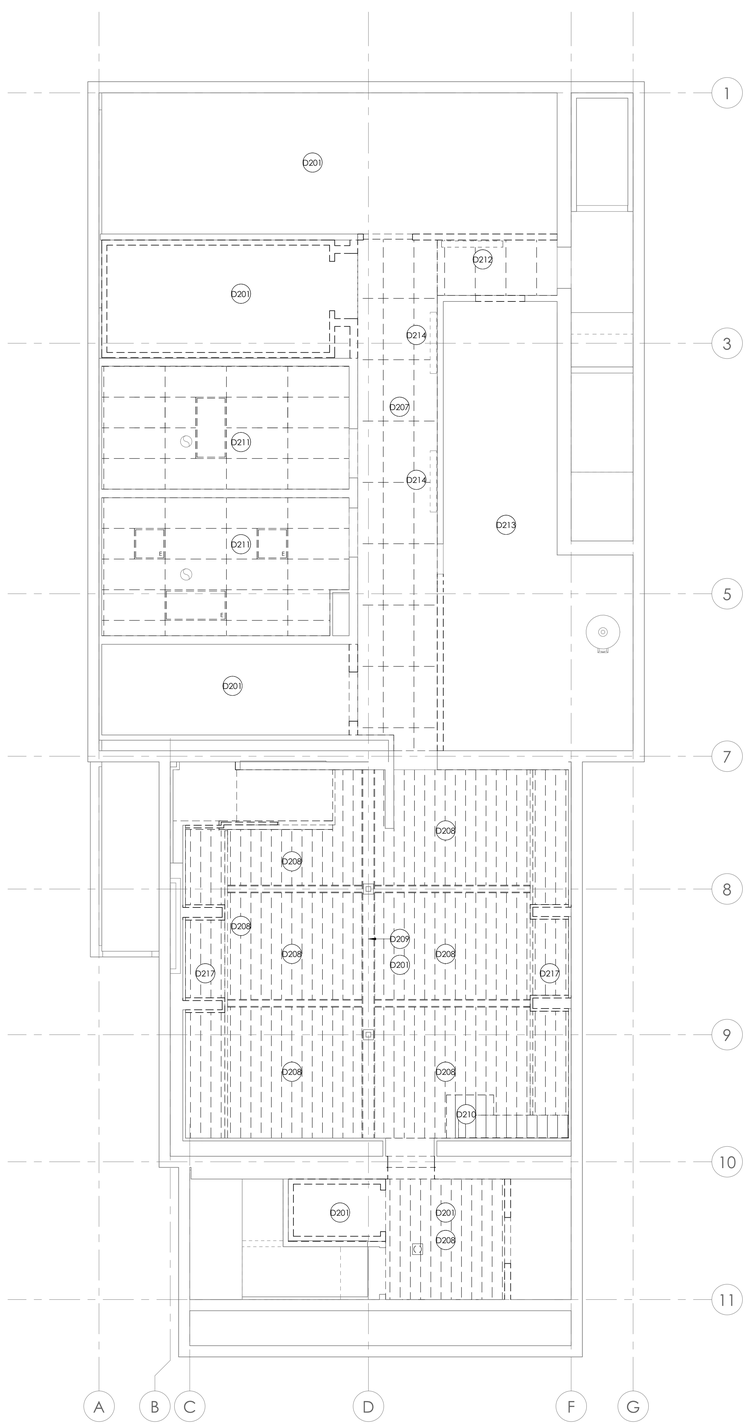
SHEET NAME: DEMOLITION FLOOR PLANS
SHEET NO. AD100

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1 AD101 FIRST FLOOR DEMOLITION PLAN - REFLECTED CEILING PLAN
1/4" = 1'-0"



2 AD101 LOWER LEVEL DEMOLITION PLAN - REFLECTED CEILING
1/4" = 1'-0"

KEYNOTES - DEMO REFLECTED CEILING PLAN

#	NOTE
D201	REMOVE ALL LIGHTS, FANS AND MISC. ELECTRICAL EQUIPMENT INCLUDING CONDUIT FROM CEILINGS THROUGHOUT ENTIRE SPACE - COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D202	EXISTING WOOD PLANK CEILING FINISH & COFFER TRIM TO REMAIN.
D203	REMOVE FRP & GYP. BD. CEILING IN ITS ENTIRETY.
D204	SELECTIVE DEMO SIDE OF SOFFIT TO ACCOMODATE REMOVAL OF HVAC DUCT.
D205	REMOVE ALL HVAC EQUIPMENT, DUCTWORK AND ALL ASSOCIATED COMPONENTS FROM ENTIRE GROUND FLOOR.
D206	REMOVE FABRIC FROM AWNING.
D207	REMOVE ACT CEILING IN ITS ENTIRETY.
D208	REMOVE WOOD PLANK CEILING FINISH & COFFER TRIM THROUGHOUT ENTIRE LOWER LEVEL.
D209	INVESTIGATE IF STRUCTURAL BEAM EXISTS - IF NO BEAM, REMOVE COFFER TRIM IN ITS ENTIRETY. IF BEAM IS PRESENT, COFFER TRIM TO REMAIN.
D210	SELECTIVE DEMO FLOOR TO ACCOMODATE NEW DUMBWAITER - SEE AS01 FOR DETAILS.
D211	DEMO EXISTING CEILING AS NEEDED TO COMPLETE CONSTRUCTION ABOVE. REMOVE EXISTING LIGHT FIXTURES TO BE REPLACED W/ NEW LED.
D212	REMOVE EXISTING LIGHT FIXTURE, COORDINATE W/ OWNER FOR STORAGE OR DISPOSAL.
D213	EXISTING LIGHT FIXTURES TO REMAIN - DEMO ALL ABANDON ELECTRIC, GAS & PLUMBING SYSTEMS.
D214	SALVAGE EXISTING WALL MOUNTED LIGHT FIXTURES TO BE REINSTALLED AFTER NEW CEILING INSTALLATION.
D215	EXISTING LIGHT FIXTURE AND CEILING FINISH TO REMAIN - PROTECT DURING CONSTRUCTION.
D216	DEMO HVAC CLOSET TO BE FLUSH WITH ENTRANCE WALL BELOW SALVAGE ENOUGH FINISH WOOD TO COMPLETE TRIM OUT OF O/H DOOR @ REMOVED.
D217	EXISTING SOFFIT STRUCTURE TO REMAIN - REMOVE FINISH WOOD.

GENERAL DEMOLITION NOTES:

1. G.C. TO FURNISH ALL LABOR, MATERIALS & EQUIPMENT NECESSARY TO COMPLETE ALL DEMOLITION WORK INDICATED ON THE DRAWINGS, SPECIFIED & REQ'D BY NEW WORK SHOWN.
2. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE W/ LOCAL BUILDING & FIRE PREVENTION REGULATIONS IN SUCH A MANNER AS TO MINIMIZE DAMAGE TO ADJACENT PROPERTY, MATERIALS, & FINISHES NOT BEING ALTERED BY PROPOSED NEW CONSTRUCTION.
3. CONTRACTORS SHALL: REMOVE PROMPTLY & LEGALLY ALL ACCUMULATED DEBRIS, PROTECT ALL EXPOSED PORTIONS OF WORK FROM THE ELEMENTS, AVOID OVERLOADING STRUCTURE, & SECURELY STORE ALL ITEMS TO BE REUSED.
4. ALL SALVAGED MATERIALS, UNLESS OTHERWISE NOTED ON THE PLANS TO BE REUSED, & AFTER OWNER'S VERIFICATION, SHALL BECOME PROPERTY OF THE CONTRACTOR, & SHALL BE PROMPTLY REMOVED FROM THE JOB SITE.
5. REGARD ARCHITECTURAL/STRUCT. DEMOLITION DRAWINGS FOR WALLS & OPENINGS TO BE REMOVED. CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, &/OR OTHER MEANS TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING NEW CONSTRUCTION.
6. ALL ABANDONED &/OR EXISTING TO BE REMOVED MEP, FP, VOICE. DATA ETC., INFRASTRUCTURE ITEMS ARE TO BE TAKEN BACK TO THE SOURCE OR FURTHEST TERMINATION POINT ALLOWED.

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12-23-2024

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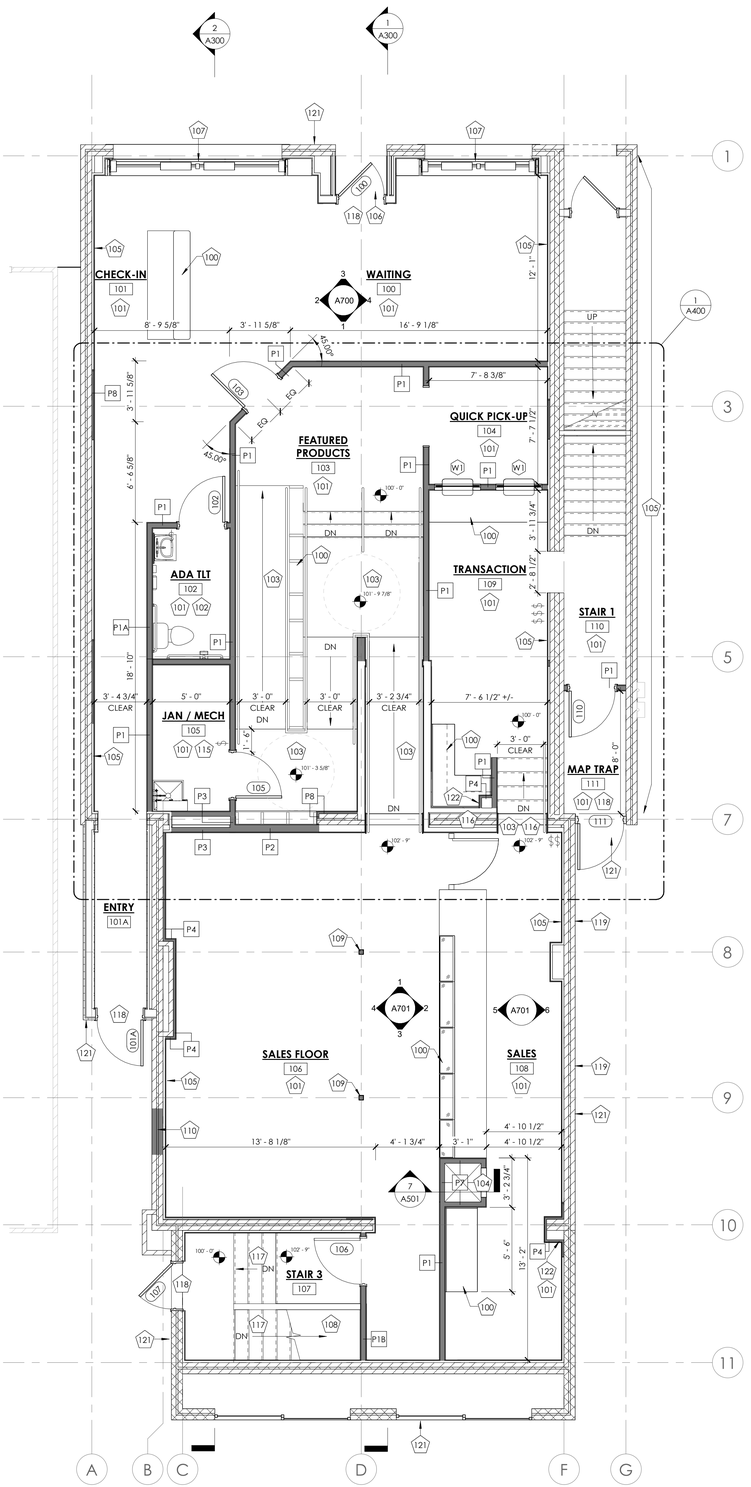
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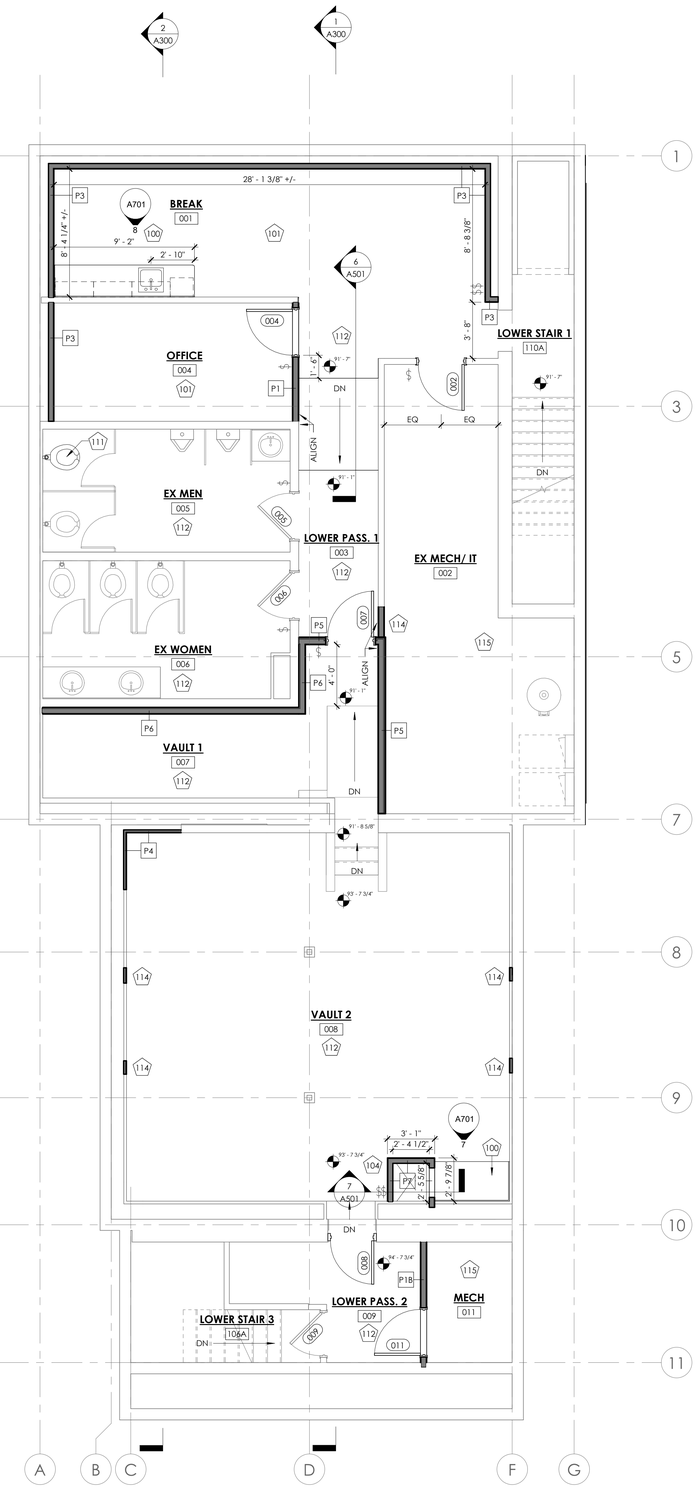
SHEET NAME: DEMOLITION REFLECTED CEILING PLANS
SHEET NO. AD101

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1 A100 FIRST FLOOR PLAN
1/4" = 1'-0"



2 A100 LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"

#	NOTE
100	NEW CASEWORK PROVIDE BLOCKING AS REQUIRED - SEE ELEVATIONS FOR DETAILS.
101	NEW FLOORING AS SCHEDULED - SEE INTERIORS PLAN FOR DETAILS.
102	SEE ENLARGED PLAN FOR PLUMBING FIXTURES & ACCESSORIES.
103	RAMP, STAIRS & HANDRAILS - SEE ENLARGED PLAN FOR DETAILS.
104	DUMBWAITER - SEE A501 FOR DETAILS.
105	PERIMETER WALLS TO BE FURRED OVER W/ 5/8" GYP. BD. - SEE A500 FOR DETAILS.
106	NEW HARDWARE ON EXISTING DOOR - SEE A600 FOR SCHEDULE.
107	COORDINATE W/ OWNER FOR VINYL GRAPHICS ON EXISTING O/H DOORS.
108	EXISTING STAIR COVER TO REMAIN - FINISHED W/ GYP. BD. TO MATCH NEW ADJACENT FINISHES.
109	G.C. TO VERIFY EXISTING STRUCTURE - PROVIDE NEW HSS COLUMNS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY - PAINT AS SCHEDULED.
110	INFILL OPENING FROM REMOVED WINDOW - EXTERIOR TO MATCH EXISTING ADJACENT - INTERIOR TO BE INSULATED AND FINISHED TO MATCH NEW AS SCHEDULED.
111	INSTALL NEW TOILET AT EXISTING LOCATION - MATCH EXISTING STYLE.
112	PATCH AND REPAIR ALL LOWER LEVEL WALLS TO LIKE NEW CONDITION - FINISH AS SCHEDULED.
114	INFILL OPENING TO MATCH EXISTING ADJACENT - FINISH AS SCHEDULED.
115	SEE MEP DOCUMENTS FOR NEW EQUIPMENT.
116	PROVIDE NEW STRUCTURAL HEADER @ NEW OPENING.
117	EXISTING STAIRS TO BE CLEANED, RETREADED & PREPED FOR NEW FINISH AS SCHEDULED.
118	REPLACE ALL DAMAGED OR BROKEN THREASHOLDS.
119	REPAIR EXTERIOR AT REMOVED EQUIPMENT TO MATCH EXISTING ADJACENT - PREP FOR PAINT.
121	G.C. TO COORDINATE PAINTING OF BUILDING EXTERIOR & AWNINGS W/ OWNER.
122	COORDINATE HVAC CHASE W/ MECHANICAL DOCUMENTS.

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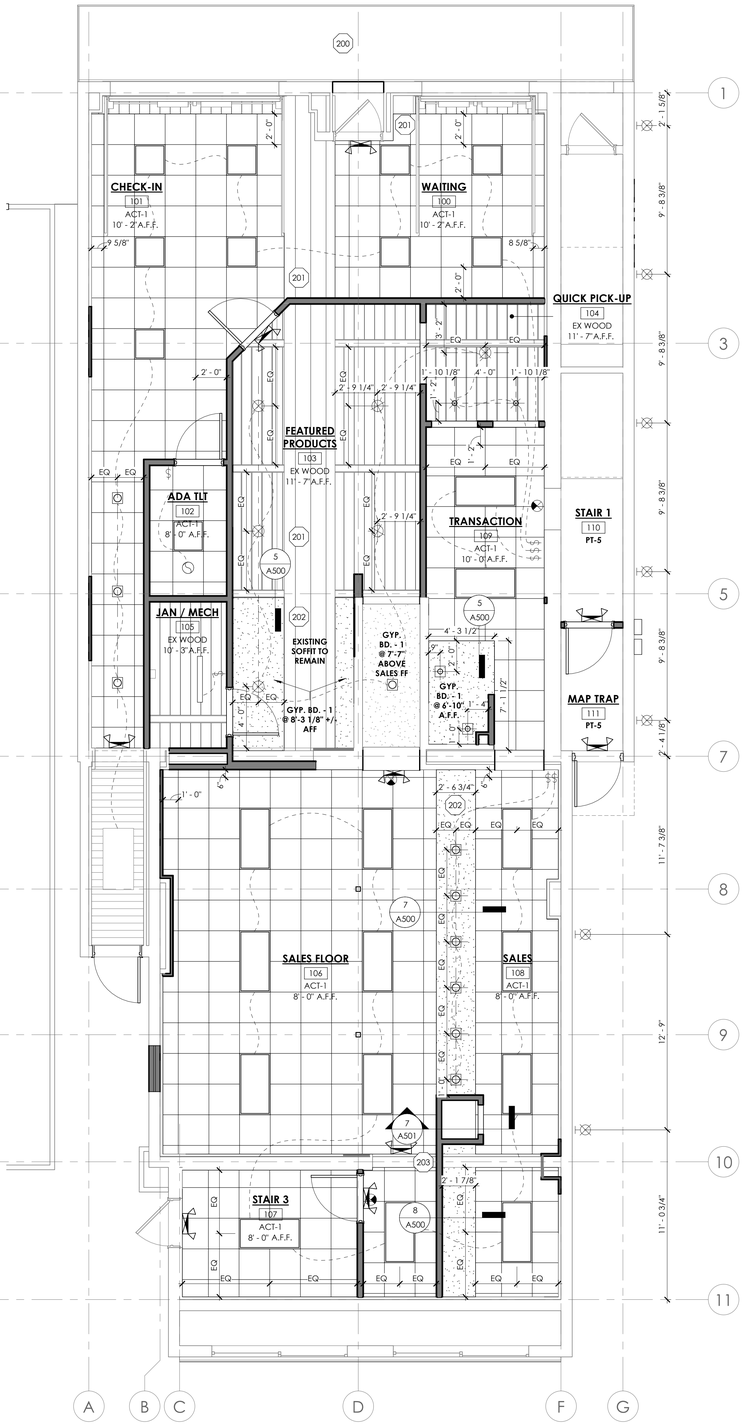
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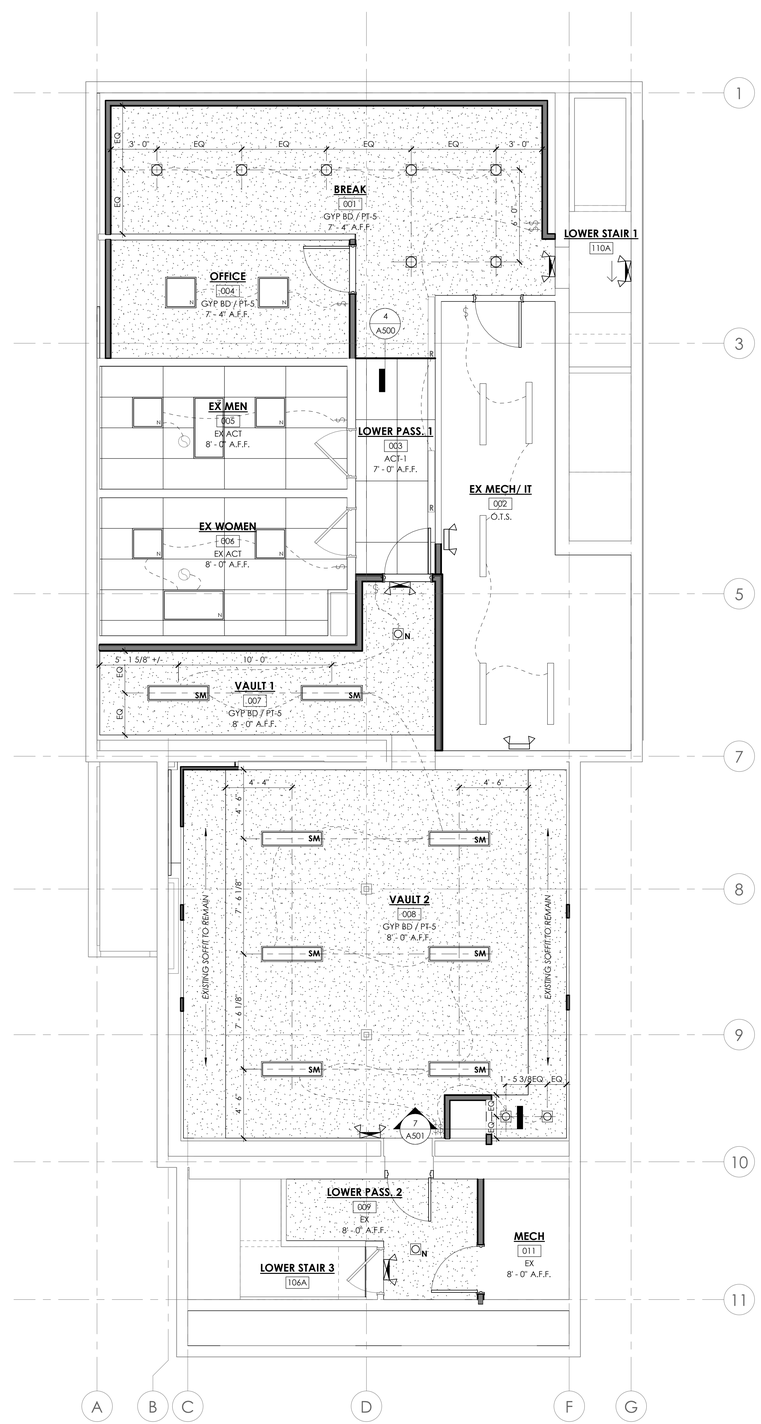
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SHEET NAME: FLOOR PLANS
SHEET NO. A100

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1 A102 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



2 A102 LOWER LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"

KEYNOTES - REFLECTED CEILING PLAN

#	NOTE
200	G.C. TO COORDINATE INSTALLATION OF NEW AWNING FABRIC.
201	CLEAN, PATCH AND REPAIR SOFFIT FOR LIKE NEW FINISH.
202	SOFFIT ABOVE - SEE A500 FOR DETAILS.
203	WRAP EXISTING SOFFIT W/ 5/8" GYP. BD. - PAINT AS SCHEDULED.

REFLECTED CEILING LAYOUT NOTE:

THIS DRAWING/PLAN HAS BEEN DEVELOPED BASED ON EXISTING FIELD CONDITIONS &/OR ARCHITECTURAL GRAPHIC STANDARDS.
THE PROPOSED IMPROVEMENTS ARE SUBJECT TO REVISION DURING REVIEW BY AUTHORITY HAVING JURISDICTION. THIS DRAWING IS NOT INTENDED TO TAKE THE PLACE OF FULLY ENGINEERED DRAWINGS BY MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ENGINEERS, BUT IS THE BEST EFFORT OF COORDINATION. IT SHOULD BE CONSIDERED ACCURATE FOR LOCATION OF ARCHITECTURAL ELEMENTS AND FOR COORDINATION PURPOSES. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL ENGNEERING/CONTRACTORS. ENGINEERED DRAWINGS SHOULD BE REFERENCED FOR MOST CURRENT & ACCURATE INFORMATION.

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ANVIL AGRINOMICS LLC
6002 MONROVIA ST.
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913-226-7077
STATE OF OHIO CERTIFICATE OF AUTHORITY # 07116

STATE OF OHIO
GEOFFREY L. CROWLEY
ARC/1316023
REGISTERED ARCHITECT
12-23-2024

GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

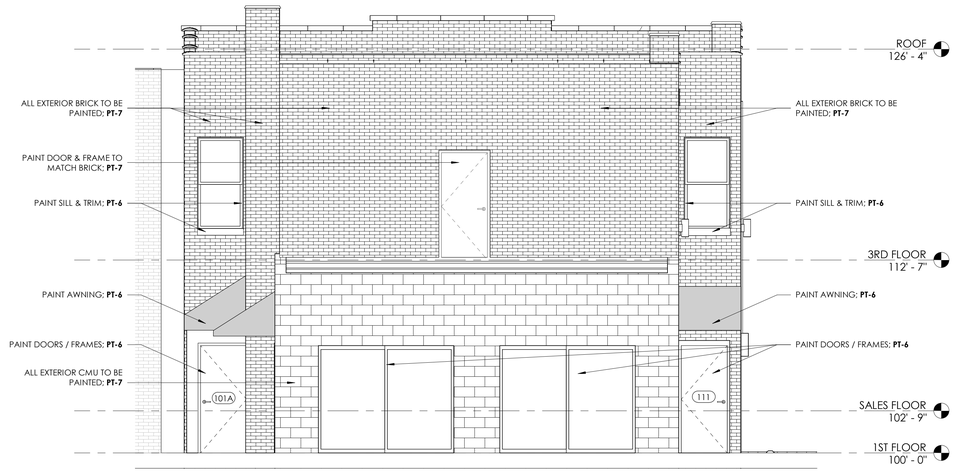
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ISSUE DATE: 12/23/2024

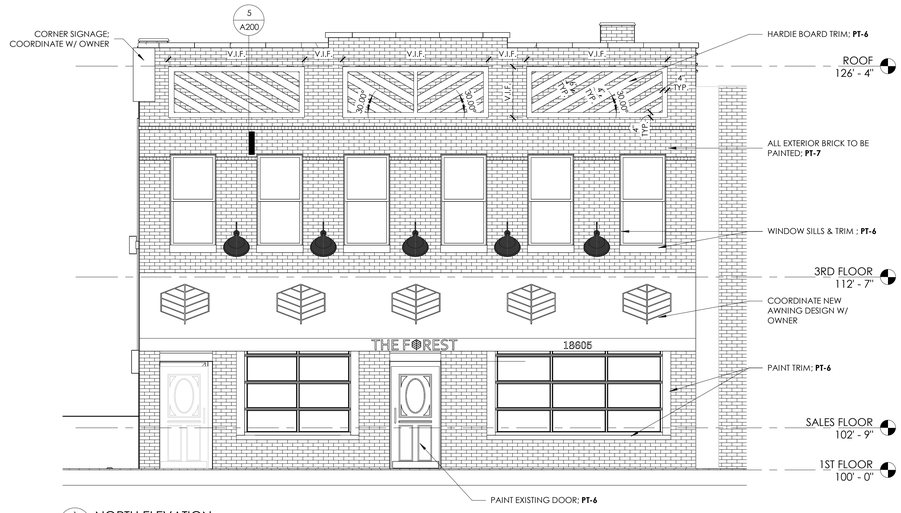
SHEET NAME: REFLECTED CEILING PLANS
SHEET NO. A102

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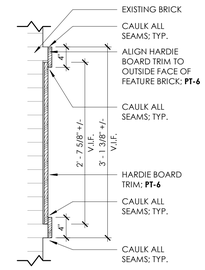
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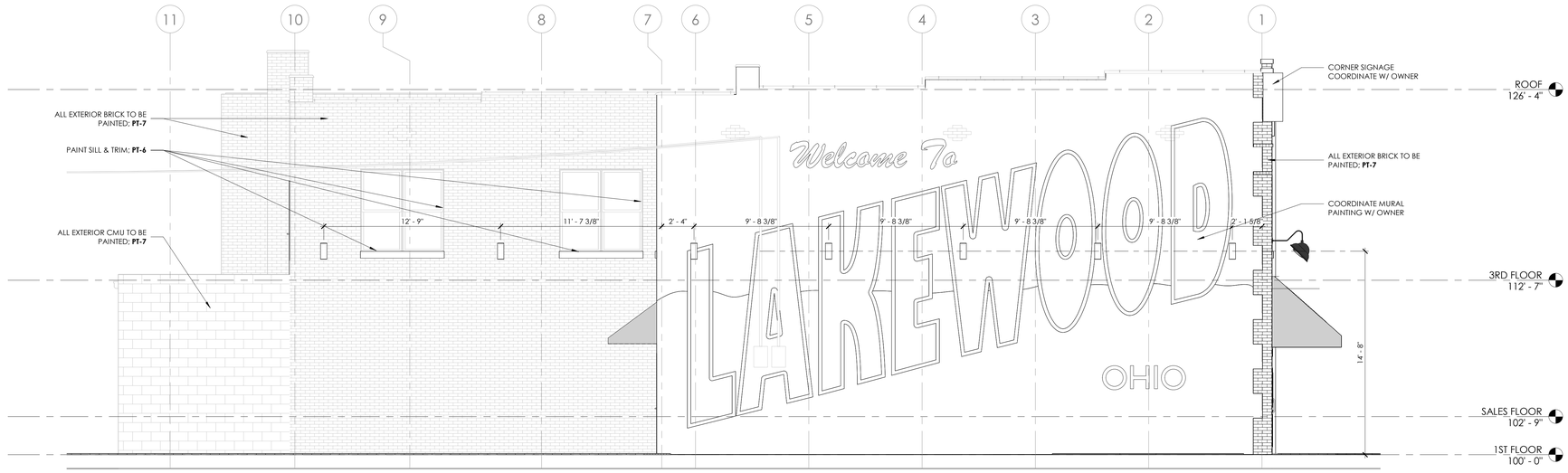
2 A200 SOUTH ELEVATION
1/4" = 1'-0"



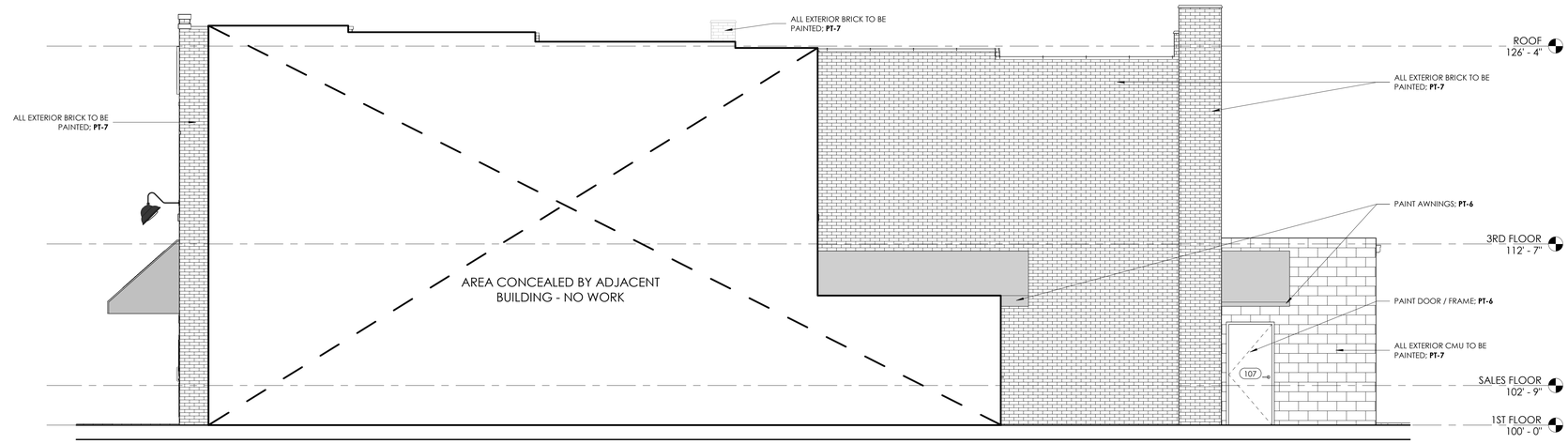
1 A200 NORTH ELEVATION
1/4" = 1'-0"



5 A200 EXTERIOR TRIM DETAIL
1" = 1'-0"



4 A200 EAST ELEVATIOIN
1/4" = 1'-0"



3 A200 WEST ELEVATION
1/4" = 1'-0"

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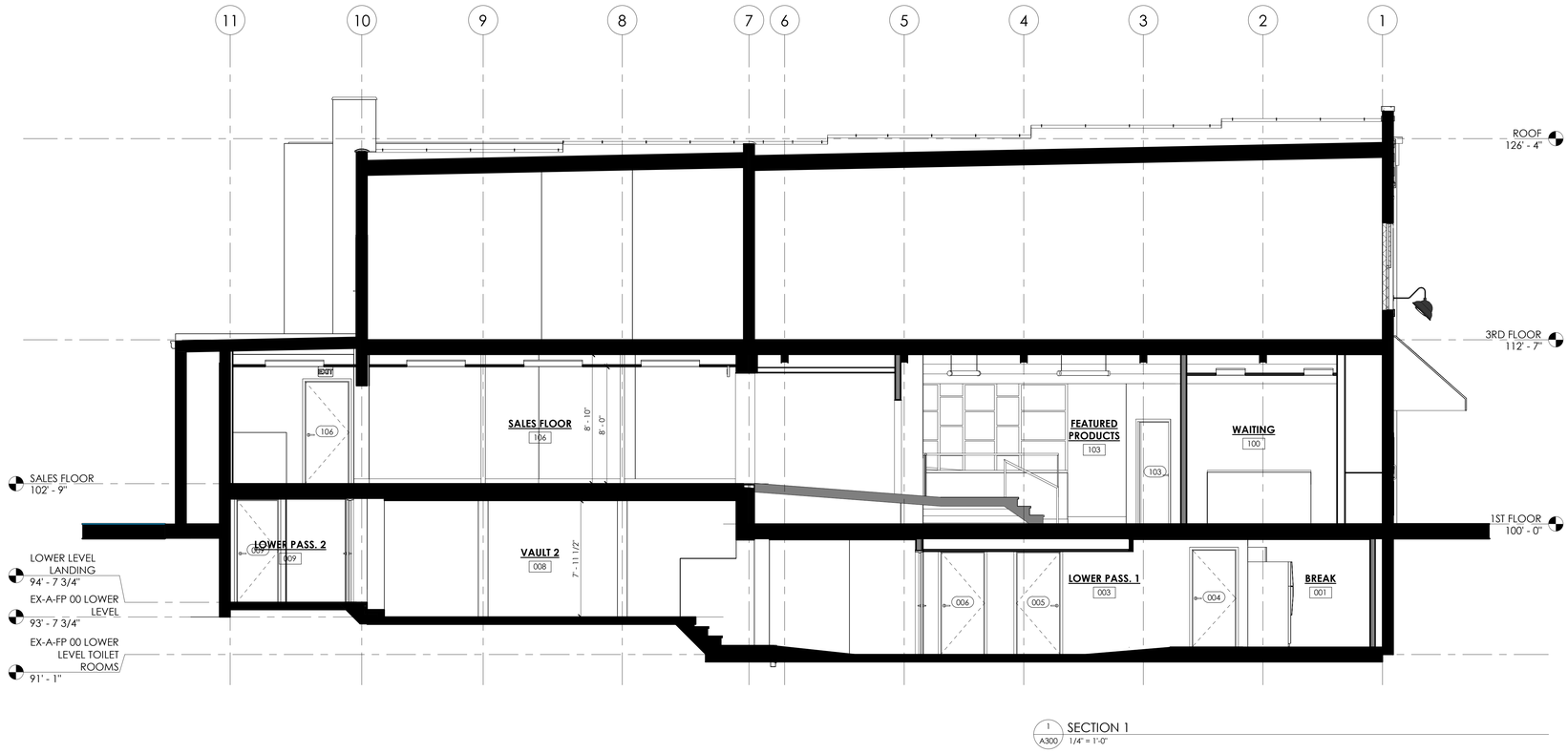
ISSUE DATE: 12/23/2024

SHEET NAME: EXTERIOR ELEVATIONS

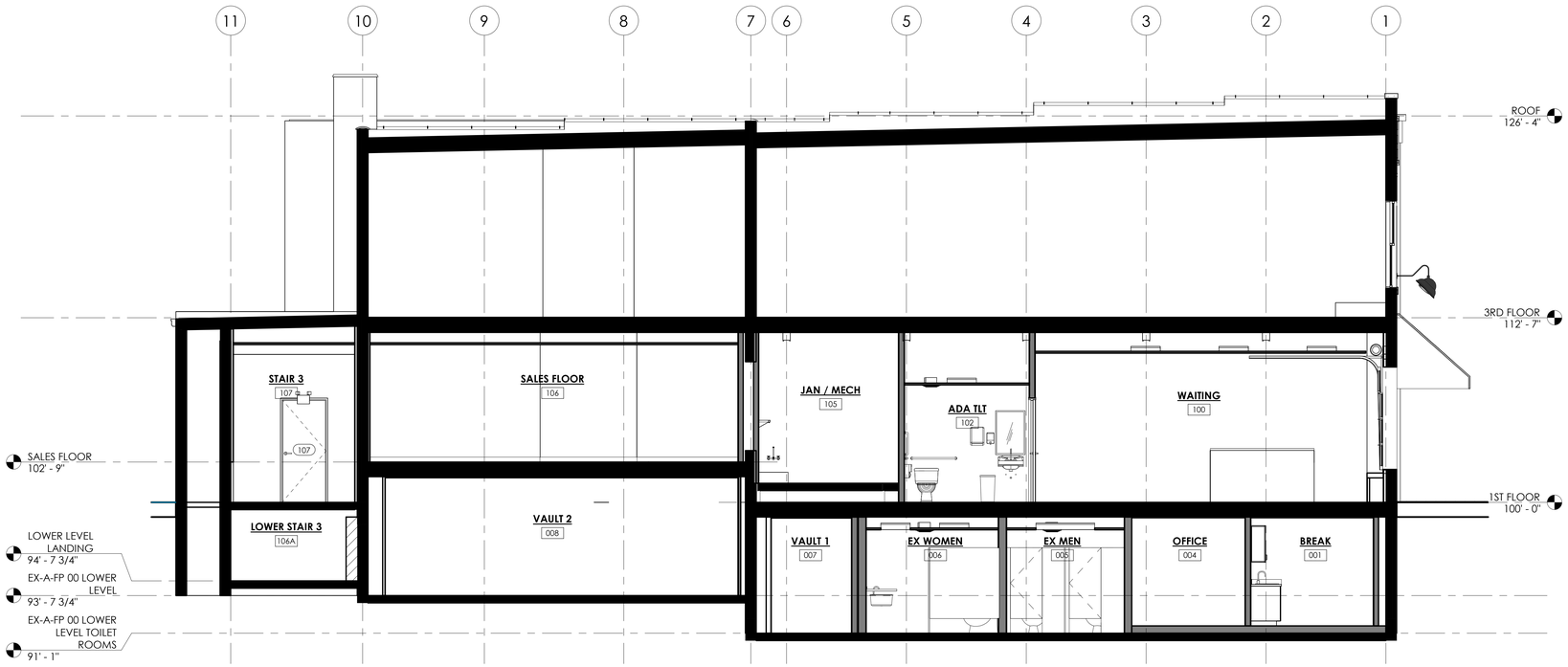
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1 A300 SECTION 1
1/4" = 1'-0"



2 A300 SECTION 2
1/4" = 1'-0"

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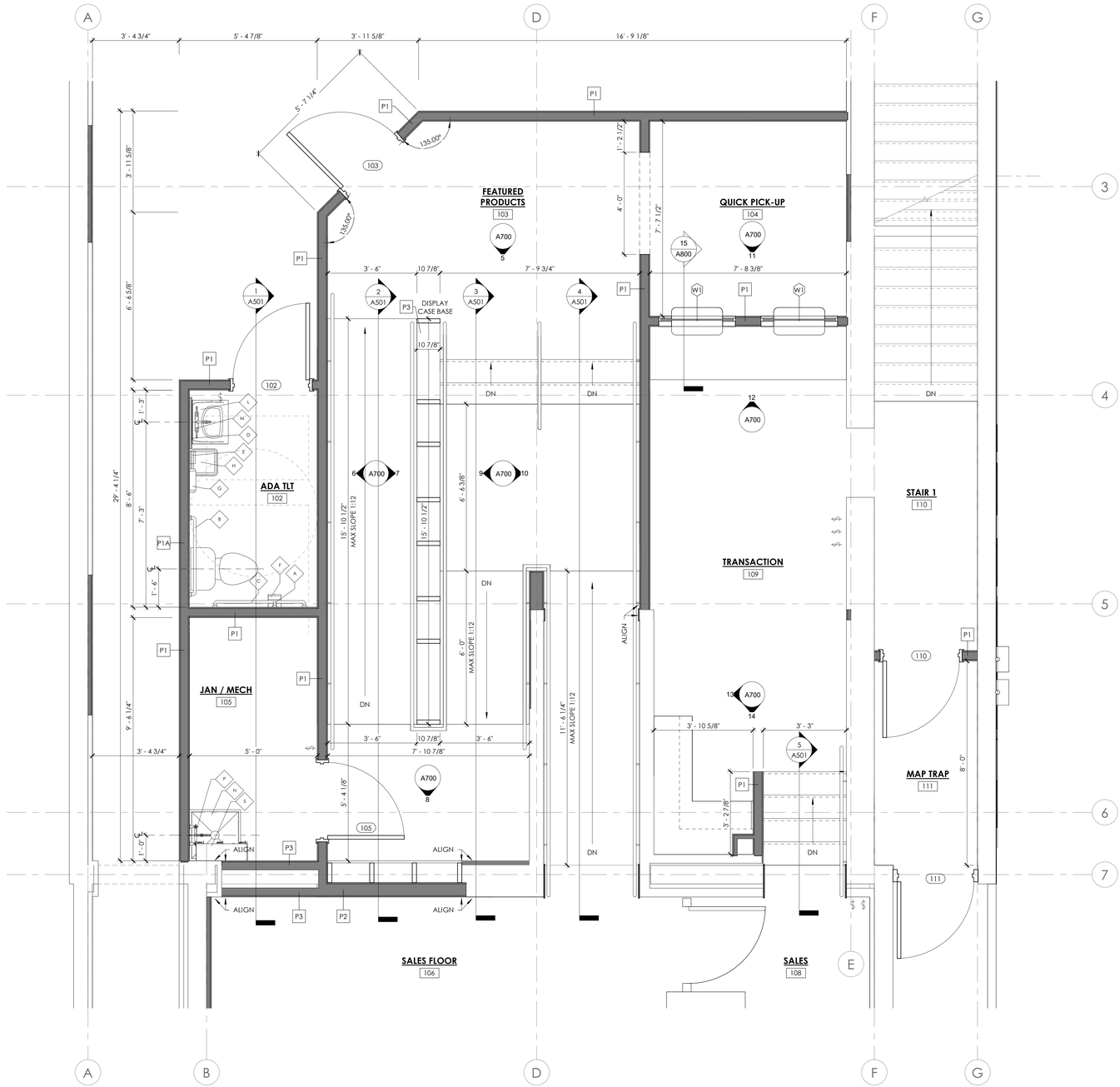
ISSUE DATE: 12/23/2024

SHEET NAME:
BUILDING SECTIONS

SHEET NO.
A300

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1 A400 ENLARGED PLAN
1/2" = 1'-0"

ACCESSORY SCHEDULE

ACCESSORY NO.	DESCRIPTION	MANUFACTURER	MODEL #
A	18" VERTICAL GRAB BAR	BOBRICK	B-5806
B	36" GRAB BAR	BOBRICK	B-5806
C	42" GRAB BAR	BOBRICK	B-5806
D	24" x 36" MIRROR	AMERICAN SPECIALTIES	0600
E	SOAP DISPENSER	GOJO TFX TOUCH FREE SOUP DISPENSER	2730-12-BLACK
F	TOILET PAPER DISPENSER	BOBRICK	B-2888 SURFACE MOUNTED MULTI ROLL DISPENSER
G	SURFACE PAPER TOWEL DISPENSER	BOBRICK	B-9262
H	WASTE RECEPTACLE	BOBRICK	B-2260
K	WATER CLOSET	PER MEP	PER MEP
L	LAVATORY	AMERICAN STANDARD	PER MEP
M	GOOSENECK FAUCET	PER MEP	PER MEP
N	24" x 24" MOP SINK	PER MEP	PER MEP
P	MOP SINK FAUCET	PER MEP	PER MEP
S	MOP HOLDER	BOBRICK	B-2248-223 x 24

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12-23-2024
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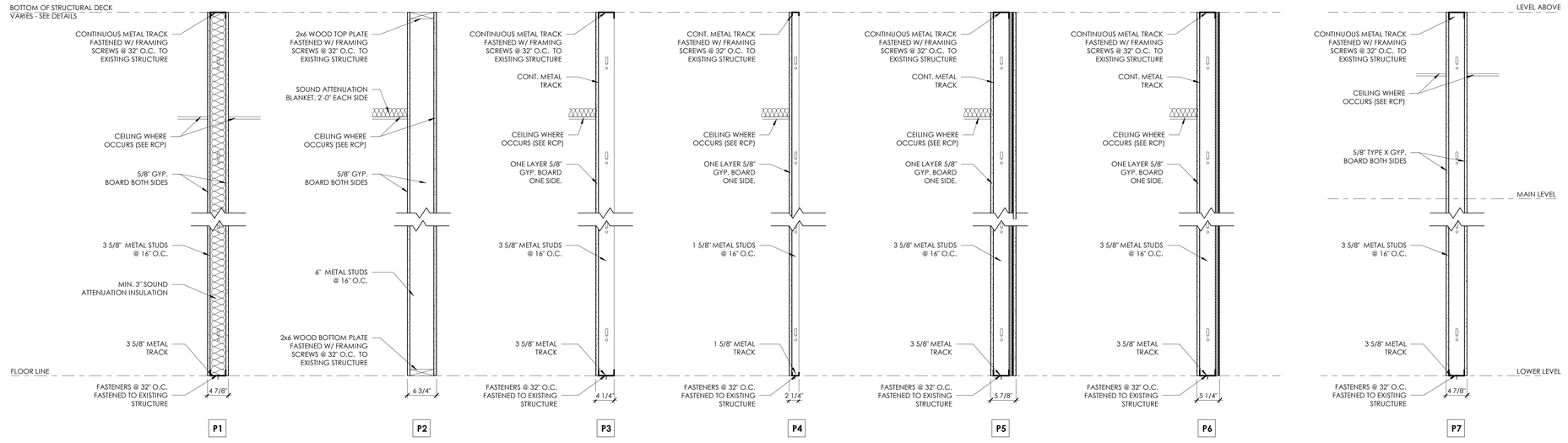
MARK	DATE	DESCRIPTION

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VERVE PROJECT NO.: 24071
ISSUE DATE: 12/23/2024
SHEET NAME: ENLARGED FLOOR PLANS
SHEET NO. A400

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P1A: UTILIZE CEMENT BACKER BOARD IN LEU OF GYP. BD. **P1B: UTILIZE TYPE X GYP. BD. TO ACHIEVE 1HR RATING: UL419**

METAL STUD FRAMING/GYPSUM BOARD NOTE:

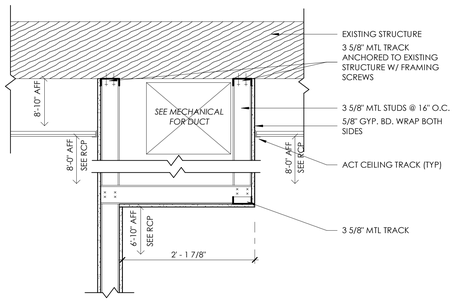
1. DRYWALL CONTRACTOR TO INSTALL ALL METAL STUDS, FRAMING CHANNELS, & SUSPENSION SYSTEMS IN COMPLIANCE W/ SIZE/SPACING & TYPE AS RECOMMENDED BY SPECIFICATIONS OF MTL STUD MANUF. &/OR AS NOTED ON DRAWINGS.
2. INSTALL MTL STUD SIZE & GA. AS PER MANUF. FOR REQ'D HEIGHT.
3. CLG. HEIGHTS & FINISH MATERIALS MAY VARY. SEE FINISH SCHEDULES & PLANS.
4. FOR PARTITION TYPES W/ STC RATING PROVIDE ACOUSTICAL SEALANT @ ALL JOINTS, INTERSECTIONS, DISSIMILAR MATERIALS & OTHER OPENING LOCATIONS REQUIRING SEALANT. ALSO PROVIDE SOUND ATTENUATION INSULATION @ ALL MTL DECK VOIDS.
5. ALL GYP. BD. TO BE FASTENED TO THE MTL STUDS & TAPED PER ALL USG REQUIREMENTS.
6. ALL GYPSUM BOARD IN WET AREAS TO BE MOISTURE RESISTANT GYP. BD.
7. ALL AREAS TO RECEIVE TILE ARE TO HAVE CEMENT BACKER BOARD
8. ALL WALLS TO BE FINISHED TO A MIN. LEVEL AS SPECIFIED IN THE GYPSUM ASSOCIATION GI-214-07 AND ASTM C840-08 FOR MATERIALS SPECIFIED IN "FINISH SCHEDULE & LEGEND"
9. ALL GYP. BD. IS TO BE TAPED & FINISHED, INCLUDING WALLS EXTENDING ABOVE CLG. UNLESS NOTED OTHERWISE. TYP.
10. INSTALL EXPANSION JOINTS IN GYP. BD. AS REQ'D BY MANUF. & USG RECOMMENDATIONS, G.C. TO COORDINATE LOCATIONS AS POSSIBLE FOR EXPANSION JOINTS TO OCCUR @ DOOR JAMBS OR AS NOTED ON DRAWINGS
11. SEISMIC BRACING FOR PARTITIONS MUST SATISFY ONE OF THE FOLLOWING THREE CONDITIONS (IN AREAS OF SITE CLASSIFICATION C OR D)
    1. EXTEND PARTITION TO FRAMING ABOVE
    2. BRACE BY COLUMNS OR INTERSECTING PARTITIONS @ MAX OF 11'6"
    3. BRACE PARTITIONS TO DECK WITH MTL STUDS OR KICKERS @ MAX. OF 11'6"

CANNABIS VAULT REQUIREMENTS:

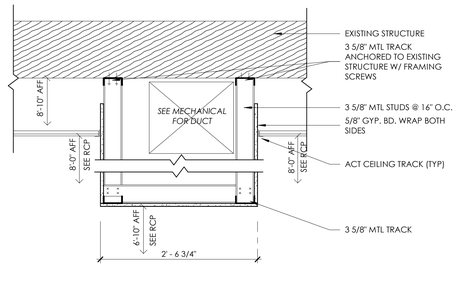
ANY VAULT USED TO STORE CANNABIS OVERNIGHT SHOULD MEET THE FOLLOWING REQUIREMENTS:

A) AT LEAST 8 INCHES OF REINFORCED CONCRETE; OR
B) ALL OF THE FOLLOWING:
   i) 18-GAUGE STRUCTURAL STUDS MADE OF GALVANIZED SHEET METAL MEETING REQUIREMENTS OF ASTM A1003,
   II) 9-GAGUE, TYPE II, CLASS 1 CARBON STEEL SECURITY MESH AND ATTACHMENT CLIPS MEETING ASTM F1267 ON EITHER SIDE OF THE STUDS, AND
   III) AN INTERIOR COVERED BY UL AND ULC CLASSIFIED, TYPE X (PER ASTM C1658), IMPACT-RESISTANT, MOISTURE RESISTANT, NONCOMBUSTIBLE GYPSUM BOARD TESTED TO ASTM E136; OR
C) COMPARABLE MATERIALS AND STANDARDS AS APPROVED BY THE DIVISION.

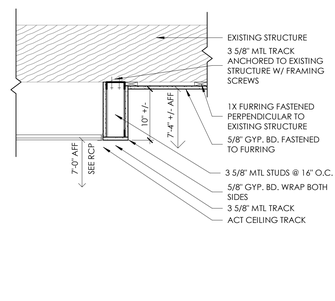
1 A500 PARTITION TYPES
1" = 1'-0"



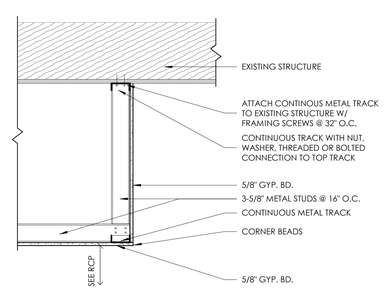
8 A500 SOFFIT @ POS 2 DETAIL
1" = 1'-0"



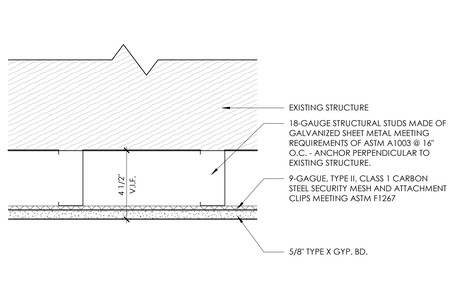
7 A500 SOFFIT @ POS DETAIL
1" = 1'-0"



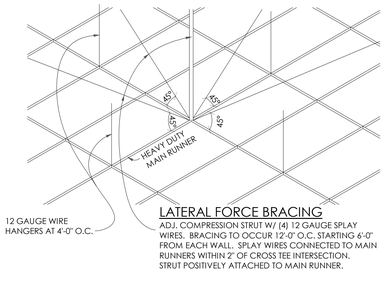
4 A500 BULKHEAD DETAIL
1" = 1'-0"



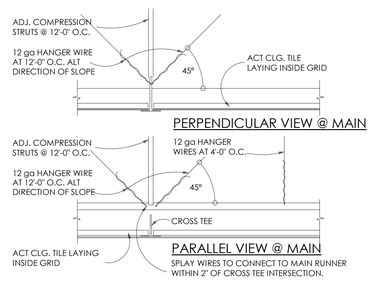
5 A500 SOFFIT @ RAMP DETAIL
1" = 1'-0"



6 A500 REINFORCED VAULT CEILING
3" = 1'-0"



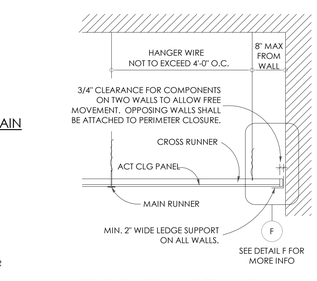
A ISOMETRIC HANGER DETAIL



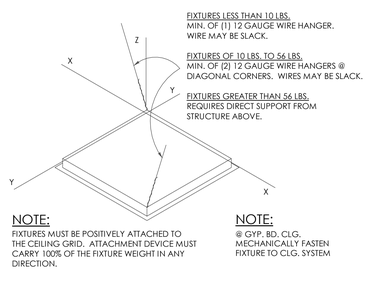
LATERAL FORCE BRACING
ADJ. COMPRESSION STRUT W/ (4) 12 GAUGE SPLAY WIRES. BRACING TO OCCUR 12'-0" O.C. STARTING 6'-0" FROM EACH WALL. SPLAY WIRES CONNECTED TO MAIN RUNNERS WITHIN 2" OF CROSS TEE INTERSECTION. STRUT POSITIVELY ATTACHED TO MAIN RUNNER.

SPLAY WIRES TO CONNECT TO MAIN RUNNER WITHIN 2" OF CROSS TEE INTERSECTION.

B DETAIL AT MAIN RUNNER



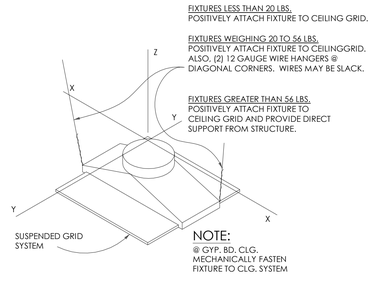
C SUSPENDED CEILING DETAIL AT WALL OR BULKHEAD



NOTE:
FIXTURES MUST BE POSITIVELY ATTACHED TO THE CEILING GRID. ATTACHMENT DEVICE MUST CARRY 100% OF THE FIXTURE WEIGHT IN ANY DIRECTION.

NOTE:
@ GYP. BD. CLG. MECHANICALLY FASTEN FIXTURE TO CLG. SYSTEM

D INDEPENDENTLY SUPPORTED FIXTURE DETAIL



NOTE:
@ GYP. BD. CLG. MECHANICALLY FASTEN FIXTURE TO CLG. SYSTEM

E DETAIL AT MECH. SERVICE

SEISMIC DESIGN CATEGORY D, E, OR F

CODE SECTIONS:
CISCA RECOMMENDATIONS SEISMIC ZONES 3-4 (2015) IBC
1621 ASCE 7-02 9.6.2.6.2.2 SEISMIC DESIGN CATEGORY D,E, OR F

ASTM C635 CLASS:
ONLY HEAVY DUTY ALLOWED

INTERSECTION:
180 LB TENSION W/ 5° OFFSET - 180 LB COMPRESSION

ACCEPTABLE CMC GRID SYSTEMS:
730*, 830*, 640, 650, 660, 670, 1200, 3500, 3600, 3700, 3800, 4000
(* REQUIRES 415/416 INTERSECTION CLIP AT CT/MR LOCATIONS.)
730, 830, 3700 3800 SYSTEM MAIN RUNNERS REQUIRE REDUCED HANGER WIRE SPACING TO MEET HEAVY DUTY. CONSULT ICC-ES ER-1905 FOR SPECIFIC COMMENTS.

BRACING:
FOUR 12 GAUGE SPLAY WIRES AND VERTICAL STRUT. BRACING TO OCCUR 12'-0" O.C. STARTING 6'-0" FROM EACH WALL FOR AREAS EXCEEDING 1000 SQFT. SPLAY WIRES CONNECTED TO MAIN RUNNERS WITHIN 2" OF CROSS TEE INTERSECTION. STRUT POSITIVELY ATTACHED TO MAIN RUNNER.

INSTALLED TO ASTM C636 AND ASTM E580:
CEILING AREAS OVER 1,000 SF MUST HAVE HORIZONTAL RESTRAINT WIRE OR RIGID BRACING
CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS

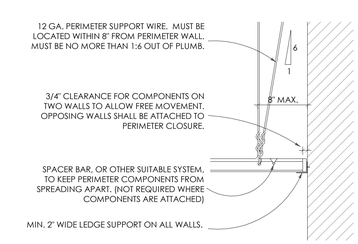
PERIMETER:
MINIMUM 2" WIDE LEDGE SUPPORT ON ALL WALLS WITH 3/4" CLEARANCE FOR COMPONENTS ON TWO WALLS TO ALLOW FREE MOVEMENT. OPPOSING WALLS SHALL BE ATTACHED TO PERIMETER CLOSURE. PERIMETER SUPPORT WIRE WITHIN 8" FROM WALL AND NO MORE THAN 1:6 OUT OF PLUMB. COMPONENTS SHALL BE TIED TOGETHER TO PREVENT SPREADING ON THE UNATTACHED WALLS. (SPACER BAR)

LIGHT FIXTURES:
FIXTURES AND ATTACHMENTS WEIGHING 10 LBS OR LESS REQUIRE ONE 12 GA. HANGER WIRE CONNECTED TO THE HOUSING. THIS WIRE MAY BE SLACK. FIXTURES WEIGHING 10 TO 56 LBS REQUIRE TWO 12 GA. (MIN.) HANGER WIRES AT DIAGONAL CORNERS. THESE WIRES MAY BE SLACK. FIXTURES GREATER THAN 56 LBS REQUIRE INDEPENDENT SUPPORT FROM THE STRUCTURE. FIXTURES MUST BE POSITIVELY ATTACHED TO THE CEILING GRID. ATTACHMENT DEVICE MUST CARRY 100% OF THE FIXTURE WEIGHT IN ANY DIRECTION.

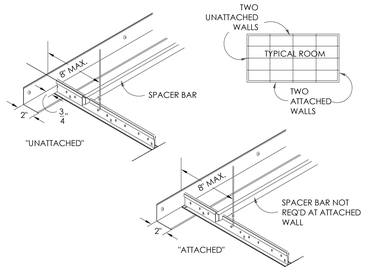
MECHANICAL SERVICES:
AIR TERMINALS OR SERVICES LESS THAN 20 LBS POSITIVELY ATTACHED TO CEILING GRID. 20 TO 56 LBS MUST BE POSITIVELY ATTACHED TO CEILING GRID WITH TWO 12 GA. (MIN.) SAFETY WIRES TO STRUCTURE. WIRES MAY BE SLACK. GREATER THAN 56 LBS, POSITIVELY ATTACHED TO CEILING GRID, DIRECT SUPPORT FROM STRUCTURE.

SPECIAL CONSIDERATIONS:
-AREAS GREATER THAN 2,500 SQFT REQUIRE A SEPARATION JOINT OR FULL HEIGHT PARTITION. EXEMPT IF ENGINEERING ANALYSIS DETERMINES THE JOINT OR PARTITION IS NOT REQUIRED.
-2" WIDE LEDGE WITH 1 " CLEARANCE AROUND CEILING PENETRATIONS (E.G. SPRINKLER HEADS) UNLESS RIGIDLY BRACED.
-CHANGES IN CEILING ELEVATIONS (E.G. SOFFITS) REQUIRE LATERAL BRACING.
-CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE INDEPENDENTLY SUPPORTED AND BRACED INDEPENDENTLY OF THE CEILING.
-RIGID BRACES ALLOWED IN LIEU OF SPLAY WIRE (LATERAL) BRACING.

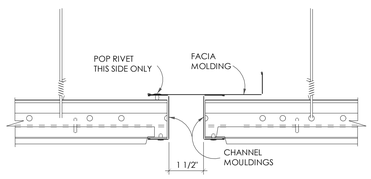
PARTITIONS:
PARTITIONS GREATER THAN 6'-0" IN HEIGHT SHALL BE BRACED TO THE BUILDING STRUCTURE. EXCEPTION: PARTITIONS NO TALLER THAN 9'-0" AND A HORIZONTAL LOAD NO GREATER THAN 5 PSF.



F PERIMETER SUPPORT DETAIL

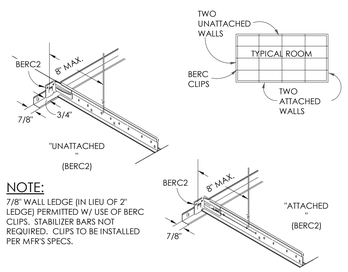


G LEDGE SUPPORT DETAIL



NOTE:
AREAS GREATER THAN 2,500 SQFT REQUIRE A SEPARATION JOINT OR FULL HEIGHT PARTITION, EXEMPT IF ENGINEERING ANALYSIS DETERMINES THE JOINT OR PARTITION IS NOT REQUIRED.

H SEISMIC SEPARATION JOINT



NOTE:
7/8" WALL LEDGE (IN LIEU OF 2" LEDGE) PERMITTED W/ USE OF BERC CLIPS. STABILIZER BARS NOT REQUIRED. CLIPS TO BE INSTALLED PER MFR'S SPECS.

J ALTERNATE WALL LEDGE W/ BERC CLIPS

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ARC 1316023
REGISTERED ARCHITECT
12-23-2024
GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

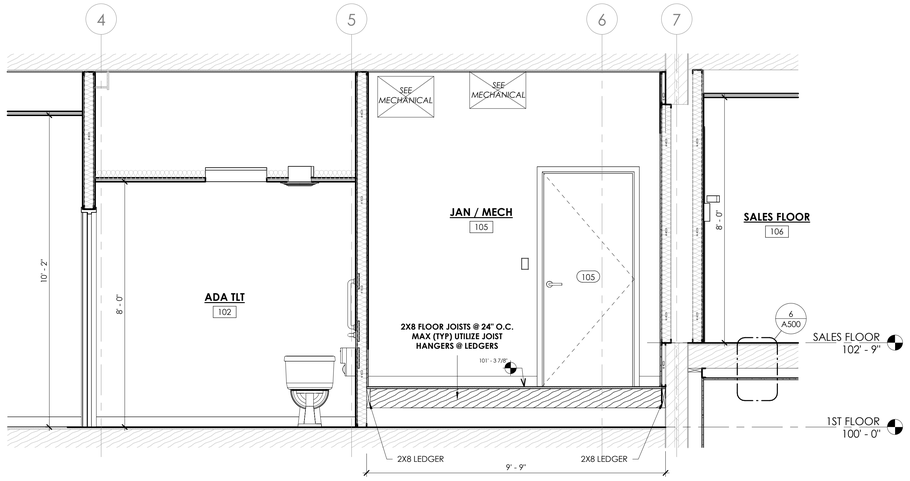
VERVE PROJECT NO.: 24071
ISSUE DATE: 12/23/2024

SHEET NAME:
PARTITION TYPES & DETAILS

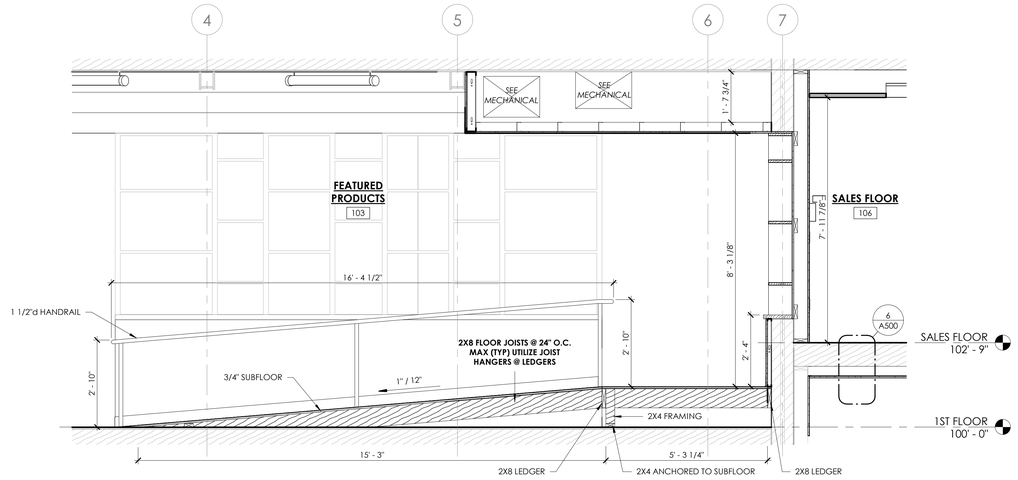
SHEET NO.
A500

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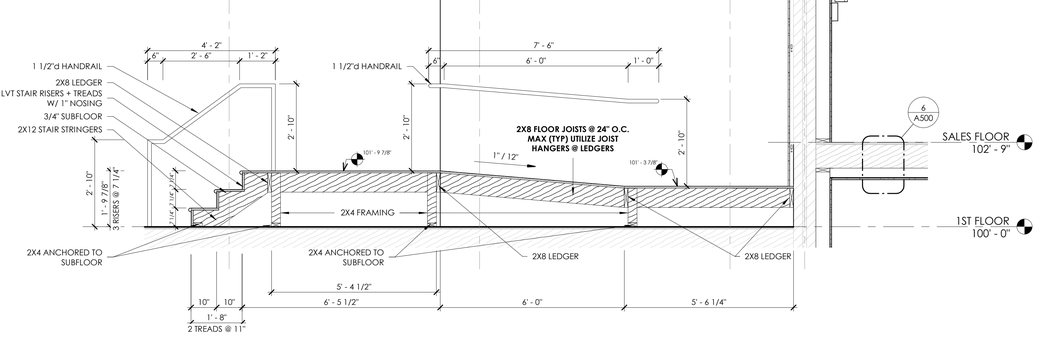
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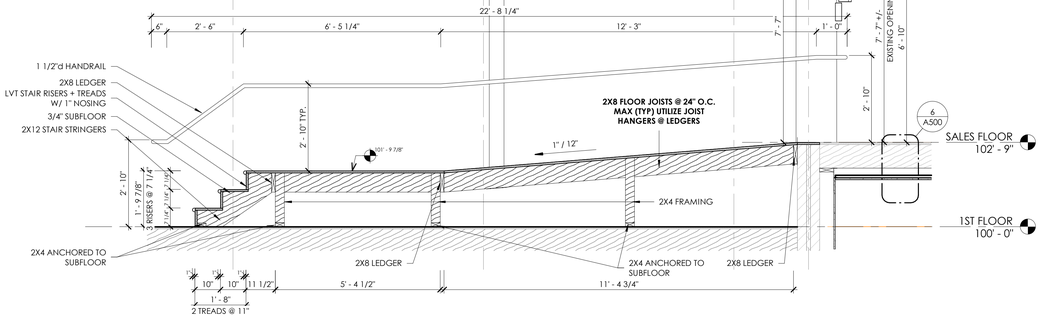
1 A501 ENLARGED SECTION 1
1/2" = 1'-0"



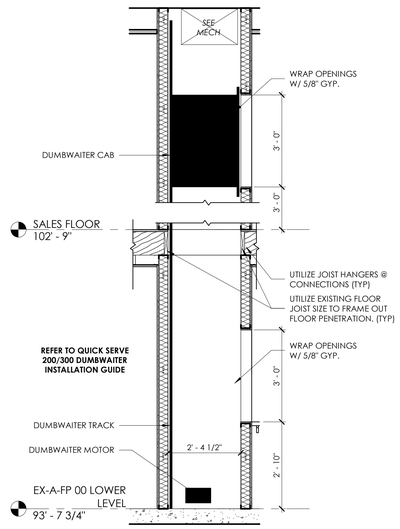
2 A501 ENLARGED SECTION 2
1/2" = 1'-0"



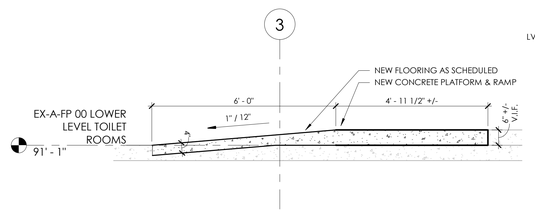
3 A501 ENLARGED SECTION 3
1/2" = 1'-0"



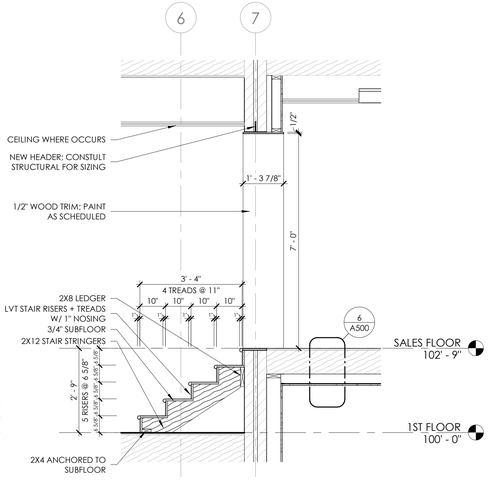
4 A501 ENLARGED SECTION 4
1/2" = 1'-0"



7 A501 SECTION @ DUMBWAITER
1/2" = 1'-0"



6 A501 ENLARGED SECTION 6
1/2" = 1'-0"



5 A501 ENLARGED SECTION 5
1/2" = 1'-0"

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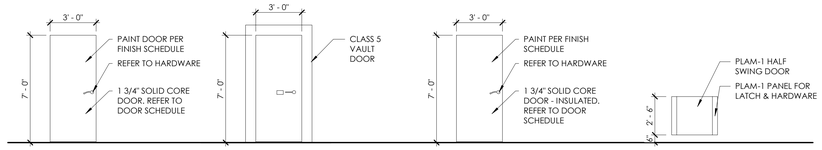
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ISSUE DATE: 12/23/2024

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DETAILS CONT.

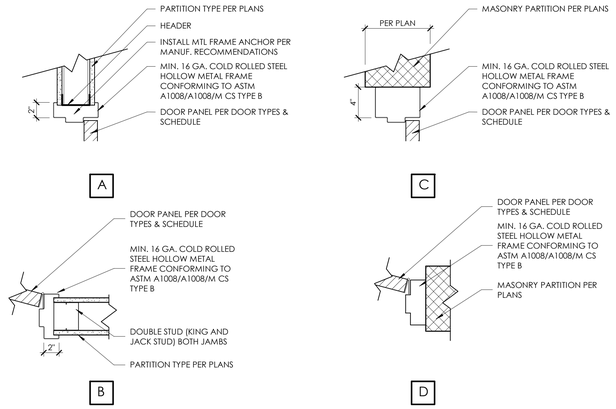
SHEET NO.
A501

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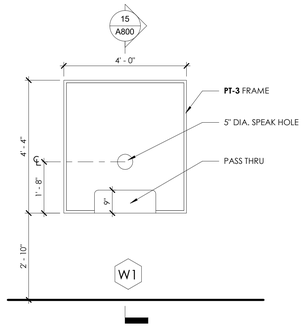
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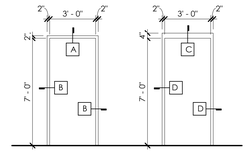
1 A600 DOOR TYPES
1/4" = 1'-0"



3 A600 FRAME DETAILS
1 1/2" = 1'-0"



4 A600 WINDOW TYPES
1/2" = 1'-0"



2 A600 DOOR FRAME TYPES
1/4" = 1'-0"

DOOR SCHEDULE

	DOOR					FRAME					FIRE RATING	HARDWARE SET	REMARKS
	SIZE							DETAILS					
NO.	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL			
002	3' - 0"	6' - 8"	1 3/4"	D1	HM	F1	HM	A	B	-	-	3	1
004	3' - 0"	6' - 8"	1 3/4"	D1	HM	F1	HM	A	B	-	-	3	1
005	3' - 0"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	7	2
006	3' - 0"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	7	2
007	3' - 0"	7' - 0"	1 3/4"	D2	STEEL	F1	HM	A	B	-	-	6	1, 4, 5
007Y	3' - 0"	7' - 0"	1 3/4"										
008	3' - 0"	6' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	1	
008	2' - 10"	7' - 0"	1 3/4"	D2	STEEL	F1	HM	C	D	-	-	6	1, 4, 5
009	2' - 10"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	7	
010	2' - 6"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	1	1
011	3' - 0"	7' - 0"	1 3/4"	D1	HM	F1	HM	A	B	-	45MIN	7	
86	3' - 0"	2' - 6"	1 3/4"	D4	PLAM-1		HM				-	-	6
100	3' - 0"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	5	
101A	3' - 0"	7' - 0"	1 3/4"	D3	HM	F1	HM	A	B		-	4	3, 7
102	3' - 0"	7' - 0"	1 3/4"	D1	HM	1	HM	A	B	-	-	2	
103	3' - 0"	7' - 0"	1 3/4"	D1	HM	F1	HM	A	B	-	-	4	
105	3' - 0"	7' - 0"	1 3/4"	D1	HM	F1	HM	A	B	-	-	1	
106	3' - 0"	7' - 0"	1 3/4"	D1	HM	F1	HM	A	B	-	45MIN	3	1
107	3' - 0"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	-	5	3
110	3' - 0"	7' - 0"	1 3/4"	D1	HM	F1	HM	A	B	-	-	3	1
111	3' - 0"	7' - 0"	1 3/4"	D3	HM	F2	HM	C	D	-	-	5	3, 7

REMARKS:
1. CARD READER
2. CLOSER
3. COORDIANTE LOCKING OPTIONS w/ OWNER
4. VAULT DOOR FRAME TO BE FULLY WELDED
5. CECO HOLLOW STEEL 16GA SECURITY DOOR, MODEL WBB863961; BASIS OF DESIGN
6. LOW SWING DOOR, NO HARDWARE
7. EXTERIOR DOOR - INSULATED

HARDWARE SETS:

BASIS OF DESIGN EQUAL SUBSTITUTIONS WILL BE ACCEPTED. VERIFY EXISTING BUILDING STANDARD DOOR HARDWARE AND CORE SETS. COORDINATE W/ TENANT AND OWNER FOR INSTALLATION OF CORES

GROUP #1 - STORAGE LOCK SET

1 1/2 PR.	HINGES	STANLEY	CB179 4.5 X 4.5	626
1	STOREROOM SET	SCHLAGE	AL80PD, SATURN	626
1	CLOSER	LCN	LCN 4040	626
1	WALL STOP	IVE	WS407CCV	626

GROUP #2 - PRIVACY SET

1 1/2 PR.	HINGES	STANLEY	CB179 4.5 X 4.5	626
1	PRIVACY SET	SCHLAGE	CB179 4.5 X 4/5	626
1	BOLT USE INDICATOR	SCHLAGE	B571, 626	626
1	WALL STOP	IVE	WS407CCV	626
1	COAT HOOK	IVE	S82B-626	626

GROUP #3 - ELECTRONIC ACCESS LOCKSET

1 1/2 PR.	HINGES	STANLEY	CB179 4.5 X 4.5	626
1	STOREROOM SET	SCHLAGE	AL80PD, SATURN	626
1	CLOSER	LCN	LCN 4040	626
1	WALL STOP	IVE	WS407CCV	626
1	ELECTRIC STRIKE	HES	1006-J X 2005 SMART PAK	11

NOTE: ELECTRIC STRIKE IS FAIL SAFE, AND ALWAYS OPEN IN DIRECTION OF EGRESS. ELECTRIC STRIKE TO BE TIED TO ACCESS CONTROL SYSTEM BY VENDOR.

GROUP #4 - BUZZ-IN DOOR

1 1/2 PR.	HINGES	STANLEY	CB179 4.5 X 4.5	626
1	STOREROOM SET	SCHLAGE	AL80PD, SATURN	626
1	CLOSER	LCN	LCN 4040	626
1	WALL STOP	IVE	WS407CCV	626
1	ELECTRIC STRIKE	HES	1006-J X 2005 SMART PAK	
11				
1	PUSH BUTTON	TBD		

NOTE: ELECTRIC STRIKE IS FAIL SAFE, AND ALWAYS OPEN IN DIRECTION OF EGRESS. ELECTRIC STRIKE TO BE TIED TO ACCESS CONTROL SYSTEM BY VENDOR. COORDINATE w/ ELECTRICAL FOR LOCATION OF PUSH BUTTON & TRANSFORMER.

GROUP #5 - EXTERIOR DOOR LOCKSET

1 1/2 PR.	HINGES	STANLEY	CB179 4.5 X 4.5	626
1	RIM DEVICE	HAGER	4500 SERIES MORTISE	
1	NIGHT LATCH	HAGER	45NL NIGHT LATCH	
1	CLOSER	LCN	WS407CCV	626
1	THRESHOLD	HAGER	7" HALF SADDLE THRESHOLD	
1	ELECTRIC STRIKE	HES	1006-J X 2005 SMART PAK	11

NOTE: ELECTRIC STRIKE IS FAIL SAFE, AND ALWAYS OPEN IN DIRECTION OF EGRESS. ELECTRIC STRIKE TO BE TIED TO ACCESS CONTROL SYSTEM BY VENDOR. PROVIDE WEATHER STRIPPING.

GROUP #6 - VAULT DOOR

1	CONTINUOUS HINGE	HAGER	780-041HD	CLEAR
1	MULTIPOINT LOCK	SECURITECH	TRIDENT MD	
1	CLOSER	TBD		
1	THRESHOLD	HAGER	7" HALF SADDLE THRESHOLD	
1	ELECTRIC STRIKE	HES	1006-J X 2005 SMART PAK 11	

GROUP #7 - PASSAGE

3	HINGES	STANLEY	CB179 4.5 X 4.5	626
1	PASSAGE SET	3410 SERIES	HGR	626
1	WALL STOP	IVE	WS407CCV	626
3	SILENCERS	308D	HGR	BLACK

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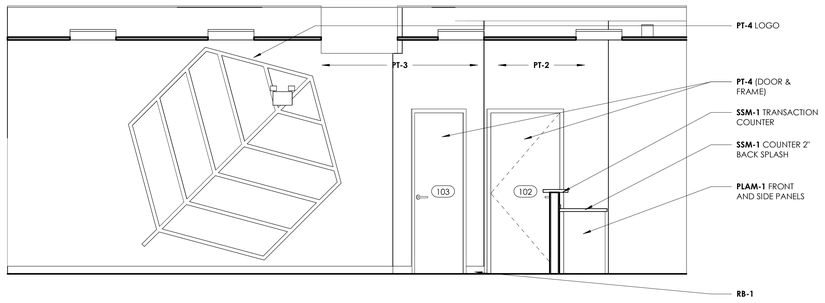
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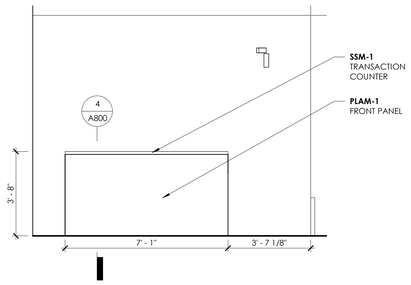
SHEET NAME: DOOR AND OPENING SCHEDULE
SHEET NO. A600

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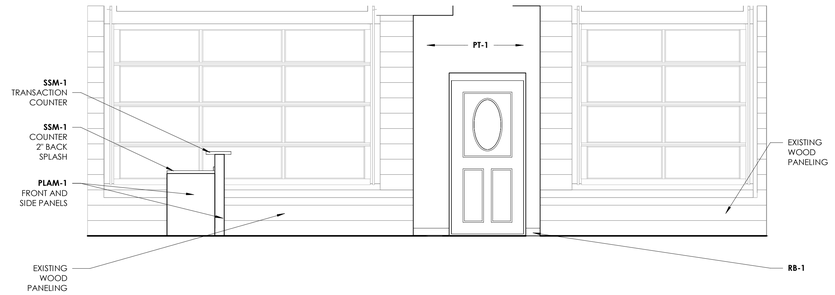
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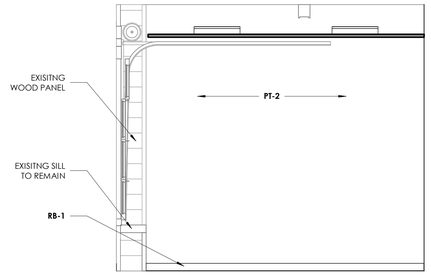
1 A700 WAITING - SOUTH
3/8" = 1'-0"



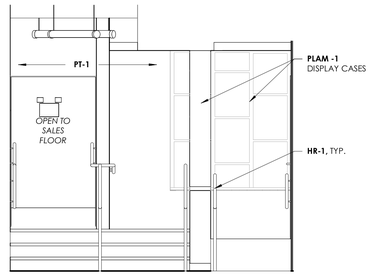
2 A700 WAITING - WEST
3/8" = 1'-0"



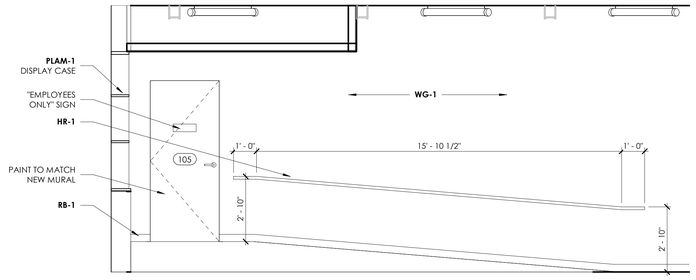
3 A700 CHECK-IN - NORTH
3/8" = 1'-0"



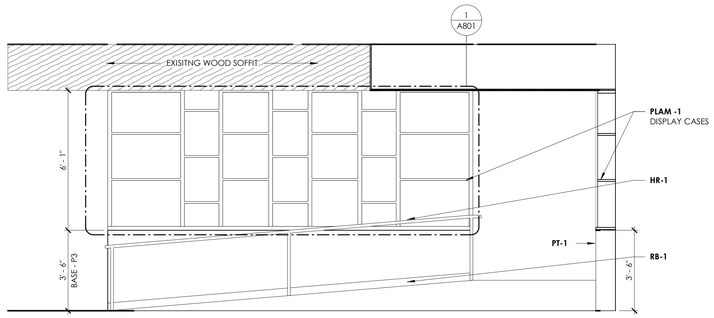
4 A700 WAITING - EAST
3/8" = 1'-0"



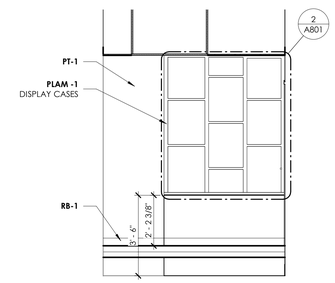
5 A700 FEATURED PRODICTS - SOUTH 1
3/8" = 1'-0"



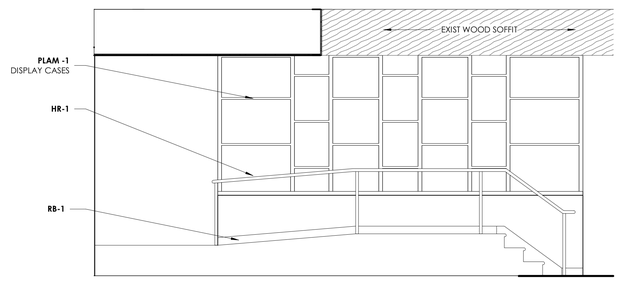
6 A700 FEATURE PRODUCTS - WEST 1
3/8" = 1'-0"



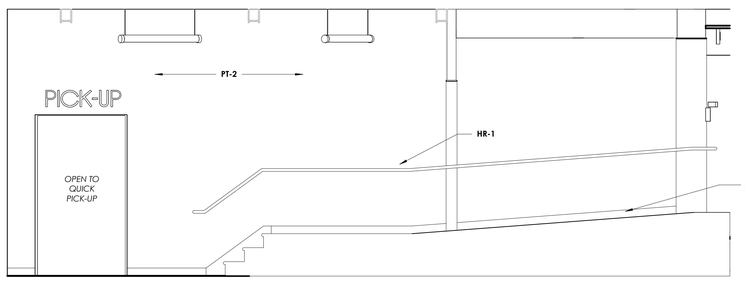
7 A700 FEATURED PRODICTS - EAST
3/8" = 1'-0"



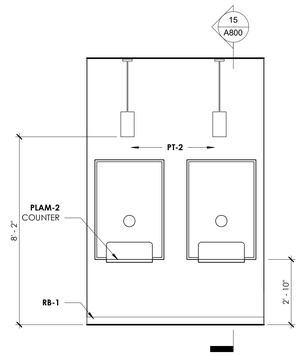
8 A700 FEATURED PRODICTS - SOUTH 2
3/8" = 1'-0"



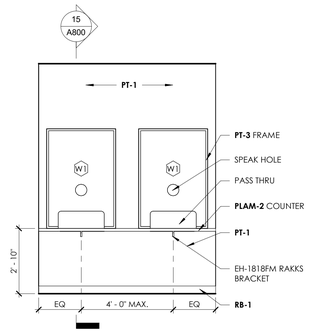
9 A700 FEATURED PRODICTS - WEST 2
3/8" = 1'-0"



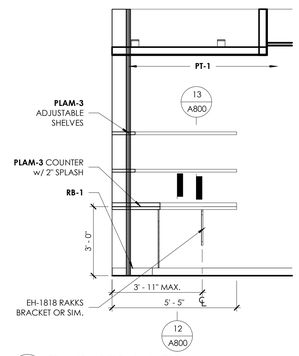
10 A700 FEATURE PRODUCTS - EAST 2
3/8" = 1'-0"



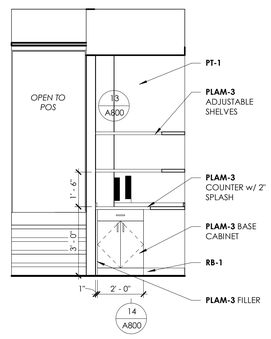
11 A700 QUICK PICK-UP - SOUTH
3/8" = 1'-0"



12 A700 TRANSACTION - NORTH
3/8" = 1'-0"



13 A700 TRANSACTION - WEST
3/8" = 1'-0"



14 A700 TRANSACTION - SOUTH
3/8" = 1'-0"

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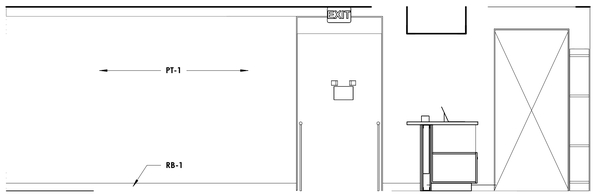
ISSUE DATE: 12/23/2024

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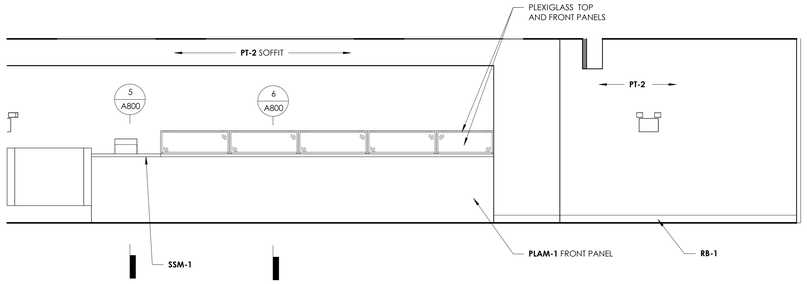
SHEET NO. A700

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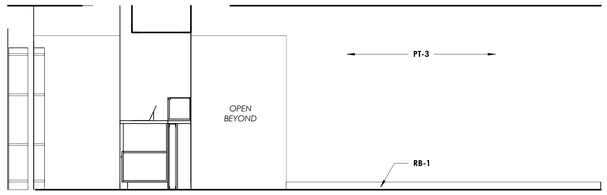
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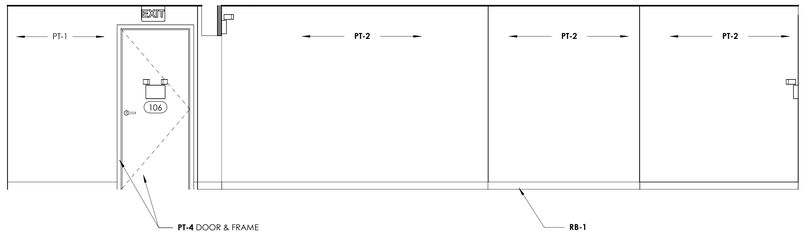
1 A701 SALES FLOOR - NORTH
3/8" = 1'-0"



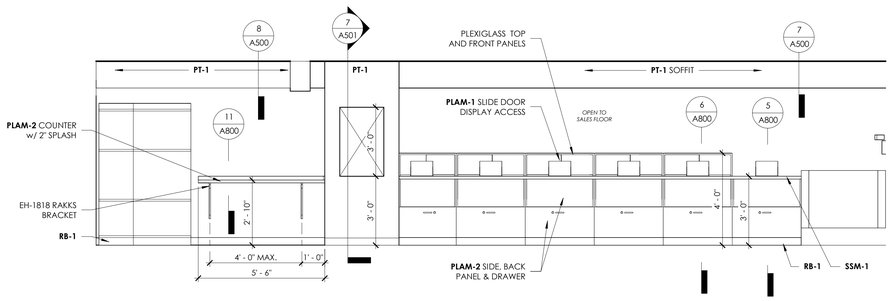
2 A701 SALES FLOOR - EAST
3/8" = 1'-0"



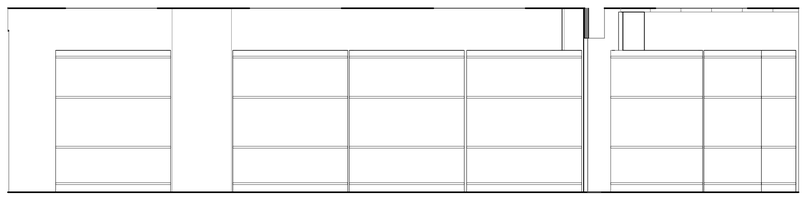
3 A701 SALES FLOOR - SOUTH
3/8" = 1'-0"



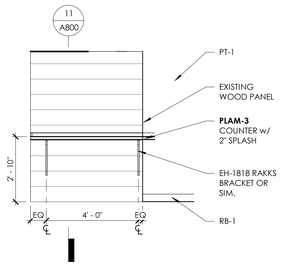
4 A701 SALES FLOOR - WEST
3/8" = 1'-0"



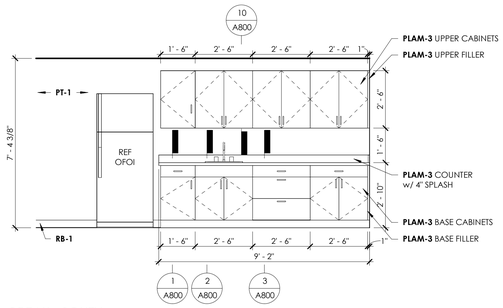
5 A701 SALES - WEST
3/8" = 1'-0"



6 A701 SALES - EAST
3/8" = 1'-0"



7 A701 VAULT 2 - SOUTH
3/8" = 1'-0"



8 A701 BREAK - SOUTH
3/8" = 1'-0"

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6002 MONROVIA ST.
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913-226-7077
STATE OF OHIO CERTIFICATE OF AUTHORITY
07116

STATE OF OHIO
GEOFFREY
L
CROWLEY
ARC/1316023
REGISTERED ARCHITECT
12-23-2024
GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

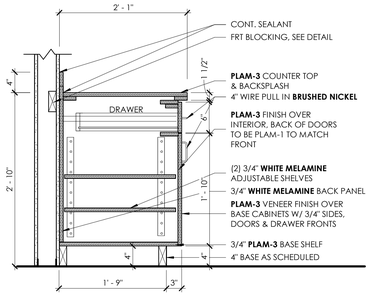
ISSUE DATE: 12/23/2024

SHEET NAME:
INTERIOR ELEVATIONS

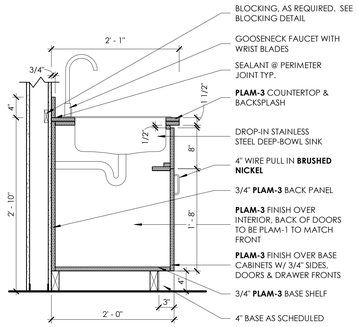
SHEET NO.
A701

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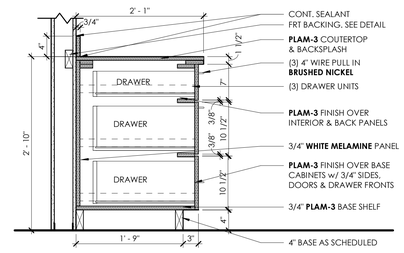
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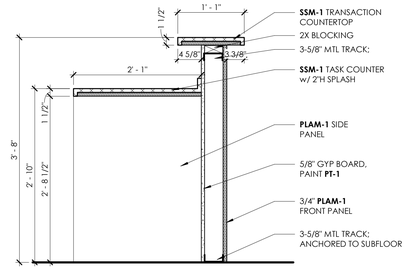
1 A800 34"H DOUBLE DOOR W/ DRAWER
1" = 1'-0"



2 A800 BASE CABINET - DOUBLE DOOR SINK
1" = 1'-0"



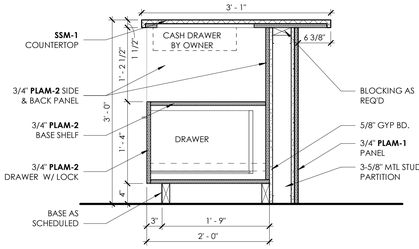
3 A800 34"H 3 DRAWER BASE CABINET
1" = 1'-0"



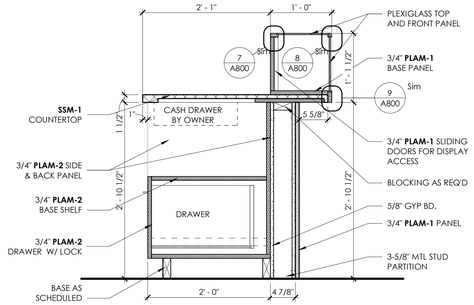
4 A800 CHECK-IN DESK SECTION
1" = 1'-0"

CASEWORK NOTES:

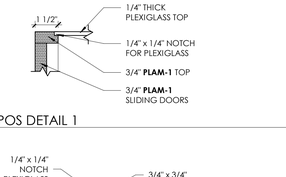
1. ALL CASEWORK TO BE FIELD VERIFIED AND COORDINATED WITH ALL TRADES
2. ALL EXPOSED OUTSIDE RADIUS OF ALL COUNTERTOPS IS TO HAVE A MINIMUM 1-1/2" RADIUS CORNER
3. INSTALL FILLER PANELS AT ALL ENDS OF CASEWORK AS REQUIRED FOR A COMPLETE INSTALLATION
4. ALL CORE MATERIALS ARE TO BE THERMOFUSED MELAMINE SURFACE PARTICLEBOARD MEETING OR EXCEEDING ANSI A208.1-1993, M-3 REQUIREMENTS
5. FINISH MATERIALS TO BE USED ARE SPECIFIED ON THE FINISH LEGEND OF THE DRAWINGS
6. COUNTERTOPS TO HAVE A 3MM PVC EDGEBANDING TO MATCH LAMINATE COLOR. CONTACT VERVE IF NOT AVAILABLE IN COLOR OR 3MM THICKNESS.
7. DOOR, DRAWER, AND CABINET EDGES SHALL BE 1MM PVC EDGEBANDING TO MATCH LAMINATE COLOR. CONTACT VERVE IF NOT AVAILABLE IN COLOR OR 1MM THICKNESS.
8. ADJUSTABLE SHELVING SHALL BE MADE OF WHITE MELAMINE, IF NOT EXPOSED, WITH 1 MM WHITE PVC EDGE BANDING
9. HINGES ARE TO BE FULLY CONCEALED, FULLY ADJUSTABLE 110 DEGREE SELF-CLOSING STAMPED STEEL ADJUSTABLE PLATES
10. DOORS OVER 36" HIGH SHALL HAVE THREE HINGES PER DOOR
11. DRAWER SLIDES ARE TO BE SELF CLOSING, BUILT IN STOPS WITH FULL EXTENSION AND CAPABLE OF SUSTAINING A MINIMUM OF 100 POUNDS PER DRAWER
12. PULLS ARE TO BE 4" CENTER WIRE WITH A BRUSHED CHROME FINISH, UNLESS NOTED OTHERWISE ON DRAWINGS & DETAILS. PULLS TO BE HORIZONTAL ON DRAWERS AND VERTICAL ON DOORS
13. CABINETS INTERIORS AND TOP CAN BE CONSTRUCT WITH THERMO FUSED WHITE MELAMINE BOARD
14. ALL EXPOSED SURFACES ARE TO BE FINISHED PER THE DRAWINGS, WHITE MELAMINE TO NOT BE EXPOSED. ie.,, UNITS WITH OUT DOORS
15. ALL END PANELS AND VERTICAL DIVIDERS RECEIVING SHELVES SHALL BE MACHINED TO RECEIVE ADJUSTABLE SHELF HARDWARE AT 32 MM ON CENTER
16. IN OPEN BASE AND WALL CABINETS SHELVES TO BE AT 12" O.C. i.e. NUMBER OF SHELVES TO BE 0 SHELVES LESS THAN 12", 1 SHELF 13" TO 24", 2 SHELVES 25" TO 36", AND 3 SHELVES 37" AND ABOVE IN HEIGHT.
17. WALL UNIT BOTTOMS SHALL MATCH EXTERIOR FINISH
18. TOE KICKS SHALL BE 4" HIGH WITH FIELD APPLIED CONTINUOUS EXTERIOR COLOR LAMINATED KICK UNLESS SPECIFIED OTHERWISE
19. COUNTERTOPS SHALL BE SUPPORTED NO MORE THAN EVERY 4'-0" O.C. WITH METAL STANDARDS. CASEWORK COUNTERTOPS TO HAVE RAKKS BRACKET SUPPORTS OR A&M HYBRID BRACKETS UNLESS NOTED OTHERWISE. AS SHOWN IN THE DETAIL
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21. ALL LAMINATE COUNTERTOPS ARE TO HAVE 3/4" MATCHING BACKSPLASHES, UNLESS NOTED OTHERWISE - 2" IN DRY AREAS AND 4" IN WET AREAS
22. SOLID SURFACE COUNTERTOPS TO HAVE ALL EXPOSED EDGES ROUNDED
23. INSTALL ALL GROMMET HOLES IN 2" OR 2-1/2" DIAMETER PER THE DIRECTION OF THE TENANT
24. ALL BASE AND WALL CABINETS TERMINATING AT A WALL ARE TO USE 90 DEGREE HINGES WITH A MIN. 1" FILLER TO PREVENT HARDWARE FROM HITTING THE WALL.
25. INSTALL SEALANT ALONG TOP AND BOTTOM OF ALL SPLASHES AND INTERSECTING EXPOSED JOINTS.



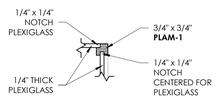
5 A800 ADA POS DETAIL
1" = 1'-0"



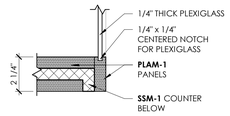
6 A800 TYP. POS DETAIL
1" = 1'-0"



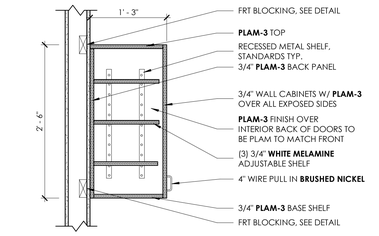
7 A800 ENLARGED POS DETAIL 1
3" = 1'-0"



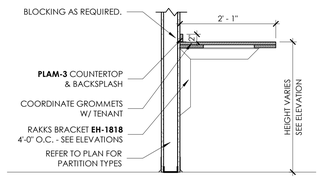
8 A800 ENLARGED POS DETAIL 2
3" = 1'-0"



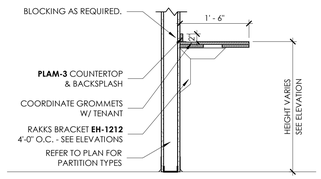
9 A800 ENLARGED POS DETAIL 3
3" = 1'-0"



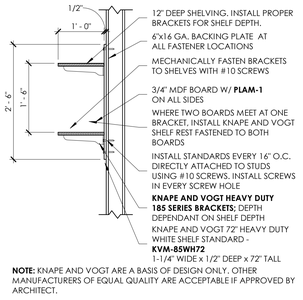
10 A800 30"H WALL CABINET
1" = 1'-0"



11 A800 25"D BUILT IN WORK SURFACE - SURFACE MOUNT BRACKET
3/4" = 1'-0"

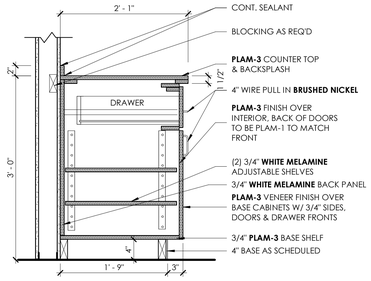


12 A800 18"D BUILT IN WORK SURFACE - SURFACE MOUNT BRACKET
3/4" = 1'-0"

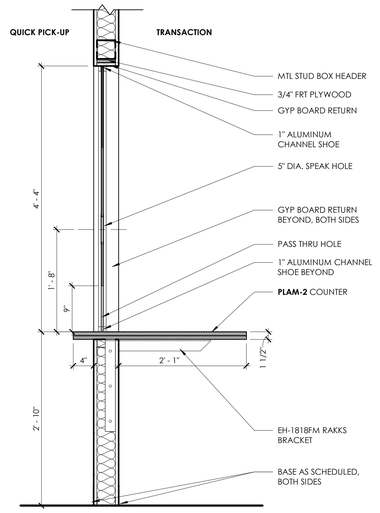


NOTE: KNAPE AND VOGT ARE A BASIS OF DESIGN ONLY. OTHER MANUFACTURERS OF EQUAL QUALITY ARE ACCEPTABLE IF APPROVED BY ARCHITECT.

13 A800 ADJUSTABLE SHELVING
3/4" = 1'-0"



14 A800 36"H DOUBLE DOOR W/ DRAWER
1" = 1'-0"



15 A800 QUICK PICK-UP WINDOW SECTION
1" = 1'-0"

VERVE DESIGN STUDIO
1558 S. BROADWAY
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www.VERVEDS.com

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SHAWNEE, KS 66216
913-226-7077
STATE OF OHIO CERTIFICATE OF AUTHORITY # 07116

STATE OF OHIO
GEOFFREY L. CROWLEY
ARC/1316023
REGISTERED ARCHITECT
12-23-2024

GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

ISSUE DATE: 12/23/2024

SHEET NAME: CASEWORK DETAILS

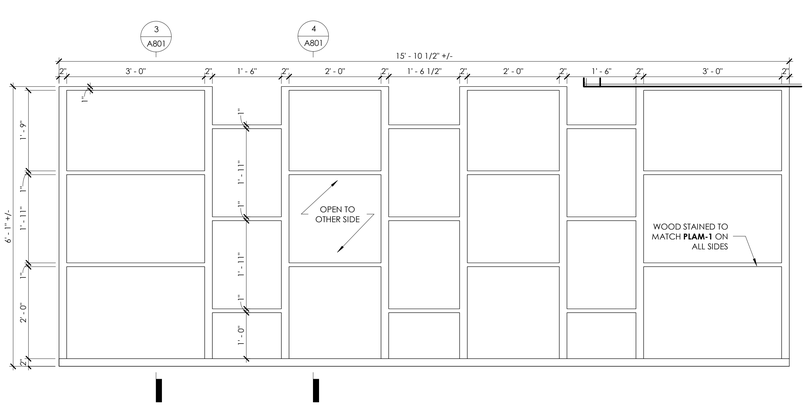
SHEET NO. A800

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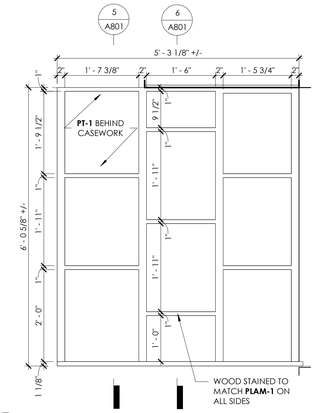
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CASEWORK NOTES:

1. ALL CASEWORK TO BE FIELD VERIFIED AND COORDINATED WITH ALL TRADES
2. ALL EXPOSED OUTSIDE RADIUS OF ALL COUNTERTOPS IS TO HAVE A MINIMUM 1-1/2" RADIUS CORNER
3. INSTALL FILLER PANELS AT ALL ENDS OF CASEWORK AS REQUIRED FOR A COMPLETE INSTALLATION
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8. ADJUSTABLE SHELVING SHALL BE MADE OF WHITE MELAMINE, IF NOT EXPOSED, WITH 1 MM WHITE PVC EDGE BANDING
9. HINGES ARE TO BE FULLY CONCEALED, FULLY ADJUSTABLE 110 DEGREE SELF-CLOSING STAMPED STEEL ADJUSTABLE PLATES
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25. INSTALL SEALANT ALONG TOP AND BOTTOM OF ALL SPLASHES AND INTERSECTING EXPOSED JOINTS.



1 A801 FEATURED PRODICTS - EAST - DETAIL
3/4" = 1'-0"



2 A801 FEATURED PRODICTS - SOUTH 2 - DETAIL
3/4" = 1'-0"

3 A801 FEATURED PRODUCTS CASEWORK - CENTER
1" = 1'-0"

4 A801 FEATURED PRODUCTS CASEWORK - CENTER (2)
1" = 1'-0"

5 A801 FEATURED PRODUCTS CASEWORK - SOUTH WALL
1" = 1'-0"

6 A801 FEATURED PRODUCTS CASEWORK - SOUTH WALL (2)
1" = 1'-0"

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VERVE PROJECT NO.: 24071
ISSUE DATE: 12/23/2024

SHEET NAME: CASEWORK DETAILS

SHEET NO. **A801**

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12/23/2024 10:59:46 AM C:\Users\rcrankstadt\Documents\24071 Standard Wellness - Lakewood OH -SELECTED OPTION _ CENTRAL_rcrankstadt.rvt

GENERAL MECHANICAL/ELECTRICAL SPECIFICATIONS

GENERAL MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS

1. APPLICABILITY
   A. THESE GENERAL REQUIREMENTS APPLY TO ALL DIVISIONS (22, 23, 26, 27), REFER TO INDIVIDUAL DIVISIONS AS INCLUDED FOR SPECIFIC INFORMATION REGARDING EACH TRADE OR SCOPE OF WORK.
2. GENERAL REQUIREMENTS
   A. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
   B. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
   C. ALL MATERIALS SHALL BE NEW & SHALL BARE UL LABEL WHERE APPLICABLE.
   D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
   E. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
   F. WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
   G. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
   H. REQUIREMENTS UNDER DIVISION ONE & GENERAL & SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED W/ ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OF WORK. INCLUDED IN THIS SECTION INCLUDES MATERIALS, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, & LABOR REQUIRED TO COMPLETE ENTIRE SYSTEM AS REQUIRED BY DRAWINGS & SPECIFICATIONS.
   I. THE SPECIFICATIONS & DRAWINGS FOR PROJECT ARE COMPLEMENTARY, & PORTIONS OF WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN EVENT OF DISCREPANCIES, NOTIFY ENGINEER & REQUEST CLARIFICATION PRIOR TO PROCEEDING W/ WORK INVOLVED.
3. EXTENT OF CONTRACT WORK
   A. PROVIDE WPT SYSTEMS INDICATED ON DRAWINGS, SPECIFIED OR REASONABLY IMPLIED. IN ADDITION TO SPECIFIC EQUIPMENT CALLED OUT IN PLANS AND SPECIFICATIONS, PROVIDE EVERY DEVICE, COMPONENT, PROGRAMMING, INTERLOCKING AND ACCESSORY NECESSARY FOR PROPER OPERATION AND COMPLETION OF TOTALLY FUNCTIONAL WPT SYSTEMS.
   B. IN CASE OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR THE GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECT OR ENGINEER'S INTERPRETATION.
   C. IN NO CASE WILL CLAIMS FOR "EXTRA WORK" BE ALLOWED FOR WORK ABOUT WHICH CONTRACTOR COULD HAVE BEEN INFORMED BEFORE BIDS WERE TAKEN.
   D. CONTRACTOR SHALL BECOME FAMILIAR WITH EQUIPMENT PROVIDED BY OTHER CONTRACTORS THAT REQUIRE PLUMBING CONNECTIONS AND CONTROLS.
   E. ELECTRICAL WORK REQUIRED TO INSTALL AND CONTROL PLUMBING EQUIPMENT, WHICH IS NOT SHOWN ON PLANS OR SPECIFICATIONS UNDER DIVISION 26, SHALL BE INCLUDED IN CONTRACTOR'S BASE BID PROPOSAL.
   F. ALL AUTOMATIC TEMPERATURE CONTROL DEVICES SHALL BE MOUNTED AS INDICATED IN AUTOMATIC TEMPERATURE CONTROL SECTION OF SPECIFICATIONS.
   G. THE COST OF LARGER WIRING, CONDUIT, CONTROL AND PROTECTIVE DEVICES RESULTING FROM INSTALLATION OF EQUIPMENT WHICH WAS NOT USED FOR BASIS OF DESIGN AS OUTLINED IN SPECIFICATIONS SHALL BE PAID FOR BY THE SUPPLYING CONTRACTOR AT NO COST TO OWNER OR ARCHITECT ENGINEER.
   H. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPERVISION TO OTHER TRADE CONTRACTORS TO INSURE THAT PROPER CONNECTIONS, INTERLOCKING AND INTERCONNECTION OF MEP EQUIPMENT IS MADE TO ATTAIN INTENDED CONTROL SEQUENCES AND SYSTEM OPERATION.
   I. CONTRACTOR SHALL OBTAIN COMPLETE MEP DATA ON SHOP DRAWINGS AND SHALL LIST THEIR DATA ON AN APPROVED FORM THAT SHALL BE PRESENTED ON REQUEST, TO OTHER TRADE CONTRACTORS. DATA SHALL BE COMPLETE WITH WIRING DIAGRAMS RECEIVED TO DATE AND SHALL CONTAIN NECESSARY DATA ON ELECTRICAL COMPONENTS OF PLUMBING EQUIPMENT SUCH AS HP, VOLTAGE, AMPERES, WATTS, LOCKED ROTOR CURRENT TO ALLOW OTHER TRADE CONTRACTORS TO ORDER SUPPORT OR OTHER EQUIPMENT COORDINATED AS REQUIRED IN HIS CONTRACT.
4. DEFINITIONS
   A. WHENEVER USED IN THESE SPECIFICATIONS OR DRAWINGS, FOLLOWING TERMS SHALL HAVE INDICATED MEANINGS:
   B. FURNISH: TERM "FURNISH" IS USED TO MEAN "SUPPLY & DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION & SIMILAR OPERATIONS.
   C. INSTALL: TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, & SIMILAR OPERATIONS,"
   D. PROVIDE: TERM "PROVIDE" MEANS "TO FURNISH & INSTALL, COMPLETE & READY FOR INTENDED USE." FURNISHED BY OWNER OR FURNISHED BY OTHERS: ITEM WILL BE FURNISHED BY OWNER OR OTHERS, IT IS TO BE INSTALLED & CONNECTED UNDER REQUIREMENTS OF THIS DIVISION, COMPLETE & READY FOR OPERATION, INCLUDING ITEMS INCIDENTAL TO WORK, INCLUDING SERVICES NECESSARY FOR PROPER INSTALLATION & OPERATION. INSTALLATION SHALL BE INCLUDED UNDER GUARANTEE REQUIRED BY THIS DIVISION.
   E. ENGINEER: WHERE REFERENCED IN THIS DIVISION, "ENGINEER" IS ENGINEER OF RECORD & DESIGN PROFESSIONAL FOR WORK UNDER THIS DIVISION, & IS CONSULTANT TO, & AN AUTHORIZED REPRESENTATIVE OF, ARCHITECT, AS DEFINED IN GENERAL &/OR SUPPLEMENTARY CONDITIONS, WHEN USED IN THIS DIVISION, IT MEANS INCREASED INVOLVEMENT BY, & OBLIGATIONS TO, ENGINEER, IN ADDITION TO INVOLVEMENT BY, & OBLIGATIONS TO, "ARCHITECT",
   F. AHJ: LOCAL &/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER WORK.
   G. THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY, & SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO ENGINEER AS EQUIVALENT TO ITEM OR MANUFACTURER SPECIFIED",
   H. THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY NATIONALLY RECOGNIZED TESTING LABORATORY (E.G. UL, ETL, CSA), & ACCEPTABLE TO AHJ OVER THIS PROJECT.
5. PREBID SITE VISIT
   A. PRIOR TO SUBMITTING BID, VISIT SITE OF PROPOSED WORK & BECOME FULLY INFORMED AS TO CONDITIONS UNDER WHICH WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER & ABOVE CONTRACT PRICE.
6. MATERIAL & WORKMANSHIP
   A. PROVIDE NEW MATERIAL, EQUIPMENT, & APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR PURPOSE IN GOOD COMMERCIAL PRACTICE & FREE FROM DEFECTS. MODEL NUMBERS LISTED IN SPECIFICATIONS OR SHOWN ON DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF TRIM GOVERN MODEL NUMBERS.
   B. PIPE, FITTINGS, SPECIALTIES & VALVES SHALL BE MANUFACTURED IN USA, WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE NEAT & "WORKMANLIKE" APPEARANCE WHEN COMPLETED TO SATISFACTION OF ARCHITECT & ENGINEER. WORKMANSHIP SHALL BE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY W/ APPLICABLE CODES & LAWS. COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED & INTENDED W/ RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES & SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL MATERIALS & EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY & RESIDENTIAL EQUIPMENT IS NOT ACCEPTABLE.
   C. REMOVE FROM PREMISES WASTE MATERIAL PRESENT FROM WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, &/OR EXCAVATION MATERIAL NOT USED.
   D. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT NEAT & CLEAN INSTALLATION AT COMPLETION.
   E. REPAIR OR REPLACE PUBLIC & PRIVATE PROPERTY DAMAGED AS RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO SATISFACTION OF AUTHORITIES & REGULATIONS HAVING JURISDICTION.
7. COORDINATION
   A. COORDINATE WORK W/ OTHER TRADES SO VARIOUS COMPONENTS OF SYSTEMS WILL BE INSTALLED AT PROPER TIME WILL FIT AVAILABLE SPACE & WILL ALLOW PROPER SERVICE ACCESS FOR MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO OWNER.
   B. OBTAIN EQUIPMENT SUBMITTAL INFORMATION FOR ALL PIECES OF EQUIPMENT TO BE CONNECTED TO FROM OTHER TRADES THAT CLEARLY INDICATES ALL CONNECTION REQUIREMENTS, LOCATIONS, SIZES, AND SIMILAR REQUIREMENTS. OBTAIN THIS INFORMATION IN AMPLE TIME TO COORDINATE OTHER TRADE SUBMITTALS AND EQUIPMENT COORDINATION. WHERE REQUIREMENTS DIFFER FROM THAT ON PLANS OR DIFFERS FROM PROVISIONS MADE IN THE WORK, IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER, DO NOT PROCEED WITH WORK THAT IS INCOMPATIBLE WITH EQUIPMENT PROVIDED.
   C. UNLESS OTHERWISE INDICATED, GENERAL CONTRACTOR WILL PROVIDE CHASES & OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH GENERAL CONTRACTOR W/ INFORMATION WHERE CHASES & OPENINGS ARE REQUIRED.
   D. KEEP INFORMED AS TO WORK OF OTHER TRADES ENGAGED IN CONSTRUCTION OF PROJECT & EXECUTE WORK IN MANNER AS TO NOT INTERFERE W/ OR DELAY WORK OF OTHER TRADES. WHERE DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS.
   E. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT BUILDING, AS VARIATIONS MAY EXIST. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING & INSPECTION.
   F. PROVIDE MATERIALS W/ TRIM THAT WILL PROPERLY FIT TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED, MODEL NUMBERS LISTED IN SPECIFICATIONS OR SHOWN ON DRAWINGS ARE NOT INTENDED TO DESIGNATE REQUIRED TRIM.
   G. COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN DIFFERENT SECTIONS OF THE SPECIFICATIONS TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. COORDINATE CONSTRUCTION OPERATIONS, INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.
   H. EACH CONTRACTOR SHALL COORDINATE ITS CONSTRUCTION OPERATIONS WITH THOSE OF OTHER CONTRACTORS AND ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. EACH CONTRACTOR SHALL COORDINATE ITS OPERATIONS WITH OPERATIONS INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.
   I. SCHEDULE CONSTRUCTION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION.
   J. COORDINATE INSTALLATION OF DIFFERENT COMPONENTS WITH OTHER CONTRACTORS TO ENSURE MAXIMUM ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, & REPAIR.
   K. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.
   L. WHERE AVAILABILITY OF SPACE IS LIMITED, COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ENSURE MAXIMUM PERFORMANCE AND ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR OF ALL COMPONENTS, INCLUDING MECHANICAL AND ELECTRICAL.
   M. PREPARE COORDINATION DRAWINGS IF LIMITED SPACE AVAILABILITY NECESSITATES MAXIMUM COORDINATION BEFORE FABRICATION. INSTALLATION OF DIFFERENT COMPONENTS OR IF COORDINATION IS REQUIRED FOR INSTALLATION OF PRODUCTS AND MATERIALS FABRICATED BY SEPARATE ENTITIES. CONTENT: PROJECT-SPECIFIC INFORMATION, DRAWN ACCURATELY TO SCALE. DO NOT BASE COORDINATION DRAWINGS ON REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR STANDARD PRINTED DATA. INCLUDE THE FOLLOWING INFORMATION, AS APPLICABLE:
      1) INDICATE FUNCTIONAL AND SPATIAL RELATIONSHIPS OF COMPONENTS OF ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, AND ELECTRICAL SYSTEMS.
      2) INDICATE REQUIRED INSTALLATION SEQUENCES.
      3) INDICATE DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND MAKE SPECIFIC NOTE OF DIMENSIONS THAT APPEAR TO BE IN CONFLICT WITH SUBMITTED EQUIPMENT AND MINIMUM CLEARANCE REQUIREMENTS. PROVIDE ALTERNATE SKETCHES TO ARCHITECT FOR RESOLUTION OF SUCH CONFLICTS. MINOR DIMENSION CHANGES AND DIFFICULT INSTALLATIONS WILL NOT BE CONSIDERED CHANGES TO THE CONTRACT.
   N. MEETINGS: CONDUCT PROJECT COORDINATION MEETINGS AT REGULARLY INTERVALS. PROJECT COORDINATION MEETINGS ARE IN ADDITION TO SPECIFIC MEETINGS HELD FOR OTHER PURPOSES, SUCH AS PROGRESS MEETINGS AND PREINSTALLATION CONFERENCES.
      1) ATTENDEES: EACH CONTRACTOR, SUBCONTRACTOR, SUPPLIER, AND OTHER ENTITY CONCERNED WITH CURRENT PROGRESS OR INVOLVED IN PLANNING, COORDINATION, OR PERFORMANCE OF FUTURE ACTIVITIES SHALL BE REPRESENTED AT THESE MEETINGS. ALL PARTICIPANTS AT THE CONFERENCE SHALL BE FAMILIAR WITH PROJECT AND AUTHORIZED TO CONCLUDE MATTERS RELATING TO THE WORK. NOTIFY ARCHITECT OF MEETING.
      2) AGENDA: REVIEW AND CORRECT OR APPROVE MINUTES OF THE PREVIOUS COORDINATION MEETING. REVIEW OTHER ITEMS OF SIGNIFICANCE THAT COULD AFFECT PROGRESS.
      3) COMBINED CONTRACTOR'S CONSTRUCTION SCHEDULE: REVIEW PROGRESS SINCE THE LAST COORDINATION MEETING, DETERMINE WHETHER EACH CONTRACTOR IS ON TIME, AHEAD OR BEHIND SCHEDULE, IN RELATION TO CONSTRUCTION SCHEDULE, DISCUSS WHETHER SCHEDULE REVISIONS ARE REQUIRED TO ENSURE THAT CURRENT AND SUBSEQUENT ACTIVITIES WILL BE COMPLETED WITHIN THE CONTRACT TIME. DISCUSS IMPACT OF VARIOUS CONTRACTOR SCHEDULES UPON OTHER CONTRACTORS AND HOW TO REMEDY IMPACTS.
      4) REVIEW PRESENT AND FUTURE NEEDS OF EACH CONTRACTOR PRESENT
   O. AFTER SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY ALL PARTIES, TRANSMIT A SET OF SUBMITTALS TO EACH OTHER TRADE (EG PLUMBING, MECHANICAL, ELECTRICAL, CONTROLS, ETC) THAT WILL INTERFACE WITH INSTALLATION, EACH OTHER CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR COORDINATION AND RETURN A STAMPED SUBMITTAL INDICATING THEY HAVE REVIEWED THE SUBMITTAL FOR COORDINATION PURPOSES.
8. ARCHITECTURAL VERIFICATION AND RELATED DOCUMENTS
   A. CONTRACTOR SHALL CONSULT ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS IN THEIR ENTIRETY INCORPORATING AND CERTIFYING ALL MILLWORK, FURNITURE, AND EQUIPMENT ROUGH-IN INCLUDING UTILITY CHARACTERISTICS SUCH AS VOLTAGE, PHASE, AMPERAGE, PIPE SIZES, DUCT SIZES, BUILDING HEIGHT, LOCATION AND ORIENTATION. SHOP DRAWINGS INCORPORATING THESE REQUIREMENTS SHOULD BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OR ROUGH IN.
9. ORDINANCES & CODES
   A. WORK PERFORMED UNDER THIS CONTRACT SHALL, AT MINIMUM, BE IN CONFORMANCE W/ APPLICABLE NATIONAL, STATE & LOCAL CODES HAVING JURISDICTION.
   B. INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE W/ CURRENT APPLICABLE CODES ADOPTED BY LOCAL AHJ INCLUDING ANY AMENDMENTS & STANDARDS AS SET FORTH BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) & OTHER NATIONAL STANDARDS & CODES WHERE APPLICABLE.
   C. WHERE CONTRACT DOCUMENTS EXCEED REQUIREMENTS OF REFERENCED CODES, STANDARDS, ETC., CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.
   D. PROCURE & PAY FOR PERMITS & LICENSES REQUIRED FOR ACCOMPLISHMENT OF WORK HEREIN DESCRIBED, WHERE REQUIRED, OBTAIN, PAY FOR & FURNISH CERTIFICATES OF INSPECTION TO OWNER, CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF LAW,
10. STANDARDS
   A. DRAWINGS AND SPECIFICATIONS INDICATE MINIMUM CONSTRUCTION STANDARD. SHOULD ANY WORK INDICATED BE SUB STANDARD TO ANY ORDINANCES, LAWS, CODES, RULES OR REGULATIONS BEARING ON WORK, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK SO THAT NECESSARY CHANGES MAY BE MADE. HOWEVER, IF THE CONTRACTOR PROCEEDS WITH WORK KNOWING IT TO BE CONTRARY TO ANY ORDINANCES, LAWS, RULES, AND REGULATIONS AND SHALL THEREBY HAVE ASSUMED FULL RESPONSIBILITY FOR AND SHALL BEAR ALL COSTS REQUIRED TO CORRECT NON COMPLYING WORK.
11. PROTECTION OF EQUIPMENT & MATERIALS
   A. STORE & PROTECT FROM DAMAGE EQUIPMENT & MATERIALS DELIVERED TO JOB SITE, COVER AS REQUIRED TO PROTECT FROM DIRT & DAMAGE, PLUG OR CAP OPEN ENDS OF DUCTWORK & PIPING SYSTEMS WHILE STORED & INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT ENTRANCE OF DEBRIS INTO SYSTEMS. EQUIPMENT & MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, & CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT & MATERIAL OF LIKE KIND. KEEP PREMISES BROOM CLEAN FROM DEBRIS AND MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC. SHALL HAVE NEAT & CLEAN APPEARANCE AT COMPLETION.
12. SUBMITTALS
   A. THE BASE BID SHALL INCLUDE ONLY PRODUCTS FROM MANUFACTURERS SPECIFICALLY NAMED IN DRAWINGS & SPECIFICATIONS. SUBSTITUTIONS WILL BE CONSIDERED PRIOR TO RECEIPT OF BIDS UNLESS WRITTEN REQUEST FOR APPROVAL TO BID HAS BEEN RECEIVED BY ENGINEER AT LEAST TEN CALENDAR DAYS PRIOR TO THE DEADLINE FOR BIDS. REQUEST SHALL INCLUDE NAME OF MATERIAL OR EQUIPMENT FOR SUBSTITUTION & COMPLETE DESCRIPTIVE PROPOSED SUBSTITUTE INCLUDING DRAWINGS, CUTS, PERFORMANCE & TEST DATA & OTHER INFORMATION FOR EVALUATION. STATEMENT SETTING FORTH CHANGES IN OTHER MATERIAL OR EQUIPMENT THAT INCORPORATION OF SUBSTITUTE WOULD REQUIRE SHALL BE INCLUDED.
   B. THE INTENT OF THESE SPECIFICATIONS IS TO ALLOW AMPLE OPPORTUNITY FOR CONTRACTOR TO USE HIS INGENUITY AND ABILITIES TO PERFORM THE WORK TO HIS AND THE OWNER'S BEST ADVANTAGE, AND TO PERMIT MAXIMUM COMPETITION IN BIDDING ON STANDARDS OF MATERIALS AND EQUIPMENT REQUIRED.
   C. MATERIAL AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE FIRST CLASS QUALITY, NEW, UNUSED AND WITHOUT DAMAGE.
   D. IN GENERAL, SPECIFICATIONS FOLLOW THE PRACTICE OF NAMING BRANDS AND EQUIPMENT BY NAMING ONE OR MORE MANUFACTURER'S BRAND, MODEL, CATALOG NUMBER AND/OR OTHER IDENTIFICATION. THE FIRST NAMED MANUFACTURER LISTED IS USED AS THE BASIS OF THE DESIGN; OTHER MANUFACTURERS NAMED MUST FURNISH PRODUCTS EQUIVALENT IN EVERY RESPECT TO THOSE NAMED UNLESS OTHERWISE DETERMINED BY ENGINEER. BASE BID PROPOSAL SHALL BE BASED ONLY ON MATERIALS AND EQUIPMENT BY MANUFACTURERS NAMED, EXCEPT AS HEREINAFTER PROVIDED.
   E. WHERE MATERIALS OR EQUIPMENT ARE DESCRIBED BUT NOT NAMED, PROVIDE REQUIRED ITEMS OF FIRST QUALITY, ADEQUATE IN EVERY RESPECT FOR PURPOSES INTENDED USE. SUCH ITEMS SHALL BE SUBMITTED TO ARCHITECT ENGINEER FOR REVIEW PRIOR TO PROCUREMENT.
   F. MATERIALS AND EQUIPMENT PROPOSED FOR SUBSTITUTIONS SHALL BE EQUAL TO ITEMS SPECIFIED THAT SPECIFICALLY MEET REQUIRED EFFICIENCY, UTILITY, AESTHETIC DESIGN, AND COLOR AS DETERMINED BY ARCHITECT ENGINEER. WHERE DECISION SHALL BE FINAL AND WITHOUT FURTHER RECOURSE. PHYSICAL SIZE OF SUBSTITUTE BRAND SHALL BE NO LARGER THAN SPACE PROVIDED INCLUDING ALLOWANCES FOR INSTALLATION AND MAINTENANCE. REQUESTS MUST BE ACCOMPANIED BY COMPLETE DESCRIPTIVE AND TECHNICAL DATA INCLUDING MANUFACTURER'S NAME, MODEL AND CATALOG NUMBERS OR CUTS, DRAWINGS, PERFORMANCE DIMENSIONS, OPERATING CHARACTERISTICS AND ANY OTHER INFORMATION NEEDED FOR COMPARISON.
   G. THE BURDEN OF PROOF OF MERIT OF PROPOSED SUBSTITUTE IS UPON PROPOSER. ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL TO BID OF PROPOSED SUBSTITUTES SHALL BE FINAL. TERMS OF APPROVED, "APPROVED EQUAL", & "EQUAL" REFER TO APPROVAL BY ENGINEER AS AN ACCEPTABLE ALTERNATE BID. NO SUBSTITUTIONS WILL BE CONSIDERED AFTER CONTRACT BID AS AN ALTERNATE.
   H. NO MATERIAL SUBSTITUTIONS SHALL BE CONSIDERED FOR APPROVAL AFTER TO AWARD OF CONTRACT, COORDINATE & VERIFY W/ OTHER TRADES WORK WHICH IS AFFECTED BY EQUIPMENT THAT CAN BE INSTALLED AS SHOWN ON CONSTRUCTION DRAWINGS WITHOUT MODIFICATION TO ASSOCIATED SYSTEMS OR ARCHITECTURAL OR ENGINEERING DESIGN. ADDITIONAL COSTS FOR ARCHITECTURAL & ENGINEERING DESIGN FEES IN BID IF DRAWING MODIFICATIONS ARE REQUIRED BECAUSE OF SUBSTITUTED EQUIPMENT.
13. SHOP DRAWINGS
   A. EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT, ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS & SHEET METAL DUCTWORK FABRICATION DRAWINGS. BEFORE SUBMITTING SHOP DRAWINGS VERIFY EQUIPMENT SUBMITTED IS MUTUALLY COMPATIBLE & SUITABLE FOR INTENDED USE & WILL FIT AVAILABLE SPACE & ALLOW AMPLE ROOM FOR MAINTENANCE. ENGINEER'S CHECKING & SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS: COORDINATION OF ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS W/ ACTUAL BUILDING CONDITIONS. PROCEED W/ PROCUREMENT & INSTALLATION OF EQUIPMENT ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS RELATIVE TO EACH ITEM.
   B. SUBMITTAL DATA SHALL BE NEATLY ORGANIZED, IDENTIFIED & INDEXED, EACH ITEM OR MODEL NUMBER SHALL BE CLEARLY MARKED & ACCESSORIES INDICATED, LABEL CATALOG DATA W/ EQUIPMENT IDENTIFICATION ACRONYM OR NUMBERS AS USED ON DRAWINGS & INCLUDE PERFORMANCE CURVES, CAPACITIES, SIZES, MATERIALS, FINISHES, WIRING DIAGRAMS & DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. MARK OUT INAPPLICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF ABOVE MENTIONED REQUIREMENTS ARE NOT MET.
   C. REQUIREMENTS SHALL BE MET ELECTRONICALLY & SUBMITTED AS PDF IN FILES LESS THAN 10MB.
   D. CONTRACTOR'S STAMP, WHICH SHALL CERTIFY THAT STAMPED DRAWINGS HAVE BEEN CHECKED BY CONTRACTOR, COMPLY W/ DRAWINGS & SPECIFICATIONS, & HAVE BEEN COORDINATED W/ OTHER TRADES.
   E. TRANSMIT SUBMITTALS AS EARLY AS REQUIRED TO SUPPORT PROJECT SCHEDULE. ALLOW FOR TWO WEEKS A/E REVIEW TIME, PLUS DUPLICATION OF THIS TIME FOR RESUBMITTALS, IF REQUIRED. TRANSMIT SUBMITTALS AS SOON AS POSSIBLE AFTER NOTICE TO PROCEED & BEFORE CONSTRUCTION STARTS. ENGINEER'S SUBMITTAL REVIEWS WILL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES; OR FOR OMITTING COMPONENTS OR FITTINGS; OR FOR NOT COORDINATING ITEMS W/ ACTUAL BUILDING CONDITIONS.
   F. FINAL COPIES SHALL BE FURNISHED TO OWNER AS PART OF O&M DOCUMENTS IN HARD & ELECTRONIC FORMATS.
14. OPERATION & MAINTENANCE INSTRUCTIONS
   A. COLLECT & COMPILE COMPLETE BROCHURE OF EQUIPMENT FURNISHED & INSTALLED ON THIS PROJECT, INCLUDE OPERATIONAL & MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, TEST & BALANCE REPORTS, & DESCRIPTIVE LITERATURE AS FURNISHED BY EQUIPMENT MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS PROJECT NAME, DATE, OWNER, ARCHITECT, CONSULTING ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTOR, & AN INDEX OF CONTENTS. SUBMIT THREE COPIES OF LITERATURE BOUND IN 3-RING BINDERS W/ INDEX & TABS SEPARATING EQUIPMENT TYPES TO ARCHITECT AT TERMINATION OF WORK. FINAL APPROVAL OF PLUMBING SYSTEMS WILL BE WITHHELD UNTIL MANUAL IS RECEIVED & DEEMED COMPLETE BY ARCHITECT & ENGINEER. PROVIDE "AS-BUILT" DRAWINGS (SEE DIVISION 1 & GENERAL CONDITIONS).
   B. THESE REQUIREMENTS MAY SHALL ALSO BE PROVIDED TO THE OWNER IN A WELL ORGANIZED PDF ELECTRONIC SUBMISSION & DELIVERED ON A DVD OR USB THUMBDRIVE.
15. TRAINING
   A. PROVIDE FACTORY TRAINED & AUTHORIZED REPRESENTATIVE TO TRAIN OWNER'S DESIGNATED PERSONNEL ON OPERATION & MAINTENANCE OF EQUIPMENT PROVIDED FOR THIS PROJECT. PROVIDE TRAINING TO INCLUDE BUT NOT BE LIMITED TO AN OVERVIEW OF SYSTEM &/OR EQUIPMENT AS IT RELATES TO FACILITY AS WHOLE; OPERATION & MAINTENANCE PROCEDURES & SCHEDULES RELATED TO STARTUP & SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE & APPROPRIATE OPERATOR INTERVENTION; & REVIEW OF DATA INCLUDED IN OPERATION & MAINTENANCE MANUALS. SUBMIT CERTIFICATION LETTER TO ARCHITECT STATING THAT OWNERS DESIGNATED REPRESENTATIVE HAS BEEN TRAINED AS SPECIFIED HEREIN, LETTER SHALL INCLUDE DATE, TIME, ATTENDEES & SUBJECT OF TRAINING. CONTRACTOR & OWNER'S REPRESENTATIVE SHALL SIGN CERTIFICATION LETTER INDICATING AGRE

PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING

PLUMBING PIPING

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- RECIRCULATING DOMESTIC HOT WATER
- SAN — WASTE ABOVE GRADE OR FLOOR
- SAN — WASTE BELOW GRADE OR FLOOR
- V — PLUMBING VENT
- W — WATER SERVICE
- G — GAS (NATURAL)

PLUMBING FIXTURES/EQUIPMENT

- HB — HOSE BIBB
- WH — WALL HYDRANT
- CLEAN OUT
- RPZ — REDUCED PRESSURE BACKFLOW PREVENTER
- DCBP — DOUBLE CHECK BACKFLOW PREVENTER
- WC-1 / S-1 — PLUMBING FIXTURE AND CALLOUT
- FD-1 — FD: FLOOR DRAIN, FS: FLOOR SINK

PIPING SYMBOLS

- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- PIPING ELBOW UP
- PIPING ELBOW DOWN
- PIPING TEE
- PIPING ELBOW
- PIPING TEE UP
- PIPING TEE DOWN
- INCREASER / REDUCER
- UNION
- CAP
- CHECK VALVE
- BALANCING VALVE

PLUMBING SPECIFICATIONS

DIVISION 220000 - PLUMBING

1. PLUMBING GENERAL REQUIREMENTS
   - A. REFER TO GENERAL MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS
2. PIPING & INSULATION
   - A. WATER SERVICE PIPING SHALL BE COPPER TYPE K TUBING, DUCTILE IRON WITH MECHANICAL JOINTS OR PVC AWWA C900 PIPING PROPERLY BEDDED AND SUPPORTED.
   - B. WATER PIPING - ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY SOLDER OR PRESS FIT JOINED TYPE L COPPER. INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS. THICKNESS IN ACCORDANCE W/ ASHRAE 90.1.
   - C. WASTE & VENT PIPING - CI BELL & SPIGOT BELOW GRADE OR HUBLESS CI W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS ABOVE GRADE. SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLENUMS.
   - D. GAS PIPING - PROVIDE SCHED 40 CONT. WELD CARBON STEEL W/ CORRESPONDING FITTINGS. PROVIDE THREADED FITTINGS. PROVIDE IRON BODY-BRASS PLUG GAS STOPS. PROVIDE 2 COATS ENAMEL PAINT ON EXTERIOR GAS PIPING. PIPING OVER 2PSI AND PIPING IN CONCEALED LOCATIONS SHALL BE WELDED OR PRESS FIT.
3. PIPING IDENTIFICATION
   - A. PROVIDE PIPE MARKERS AND FLOW DIRECTION ARROWS AT 10'_0" MAXIMUM SPACING TO IDENTIFY PIPING IN MECHANICAL ROOMS AND 20'_0" MAXIMUM SPACING IN ALL OTHER AREAS.
   - B. PIPE MARKER NOMENCLATURE/COLORS SHALL MEET APPLICABLE ANSI STANDARD AND OSHA REQUIREMENTS FROM SEATON OR EQUAL. SUBMIT FOR APPROVAL LIST OF COLORS AND WORDING PRIOR TO PURCHASE OF PIPE MARKERS.
4. VALVES
   - A. EQUIVALENT VALVES LISTED ON CURRENT COMPARISON CHARTS OF SPECIFIED VALVE MANUFACTURERS BY MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APOLLO, MUELLER, MUESSCO, WATTS, HAYS, ROCKWELL-NORDSTROM.
   - B. BALL VALVES - 2" & UNDER - BRONZE FULL PORT W/ TEFLON SEATS, BRONZE BALL & INSULATED HANDLE.
   - C. BALANCING VALVES - ARMSTRONG MODEL CBV I OR CBV II, 125 PSI-WP AT 250 DEGREES F., METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.
   - D. CHECK VALVES - 2" & SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLON OR BRONZE DISC & SEAT RING, 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED, 200PSI-WOG/125 PSI-WSP.
   - E. PLUG VALVES - 1" & SMALLER IRON BODY GAS COCK, 175 PSI_WOG BRONZE PLUG WASHER AND NUT, SCREWED ENDS, 1_1/4" & LARGER, SEMI_STEEL LUBRICATED PLUG VALVE, 175 PSI_WOG COATED PLUG, TWO BOLT COVER, AND SHORT PATTERN SCREWED ENDS. PROVIDE W/ STD, PATTERN CAST HANDLE.
   - F. INSTALLATION
     1) INSTALL NECESSARY VALVES WITHIN PIPING SYSTEMS TO PROVIDE REQUIRED FLOW CONTROL TO ALLOW ISOLATION FOR INSPECTION, MAINTENANCE AND REPAIR OF EACH PIECE OF EQUIPMENT OR FIXTURE, AND ON EACH MAIN AND BRANCH SERVICE LOOP.
     2) EACH VALVE SHALL BE INSTALLED SO THAT IT IS EASILY ACCESSIBLE FOR OPERATION, VISUAL INSPECTION, AND MAINTENANCE AND WHEREVER POSSIBLE, GATE, CHECK AND BALL VALVES SHALL BE INSTALLED ON A HORIZONTAL RUN WITH THE HANDLE UPRIGHT AND WITHIN 15 DEGREES OF VERTICAL, BUTTERFLY VALVES SHALL BE INSTALLED WITH THE STEM IN THE HORIZONTAL POSITION AND THE HANDLE AT 90 DEGREES FROM VERTICAL.
     3) VALVES INSTALLED IN PIPING SYSTEMS SHALL BE COMPATIBLE W/ SYSTEM MAXIMUM TEST PRESSURE. PIPE MATERIALS, PIPE JOINING METHOD, AND FLUID OR GAS CONVEYED IN SYSTEM.
5. FIXTURES
   - A. SEE SCHEDULES FOR FURTHER REQUIREMENTS AND SPECIFIC FIXTURES.
   - B. FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO.
   - C. STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL
   - D. FITTINGS & SUPPORTS: JOSAM, SMITH, WADE, ZURN, OR JONESPEC.
   - E. SEATS: CHURCH, OLSONITE, BEMIS OR BENEKE.
   - F. DRINKING FOUNTAINS: HALSEY TAYLOR, ELKAY, OASIS, OR HAWS.
   - G. TRIM BY MOEN, DELTA, ELJER, KOHLER, AMERICAN STANDARD, CRANE, SLOAN.
   - H. FLUSHVALVES: SLOAN, ZURN, TOTO
   - I. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.
6. PLUMBING EQUIPMENT
   - A. SEE SCHEDULES FOR FURTHER REQUIREMENTS AND SPECIFIC EQUIPMENT.
   - B. WALL HYDRANTS JOSAM SERIES 71000 W/ CONNECTIONS FOR ¾" PIPE & HOSE, NON-FREEZING W/ KEY, VACUUM BREAKER, LOCKING COVER, EQUIVALENT BY J.R. SMITH, WADE, WOODFORD OR ZURN.
   - C. CLEANOUTS PROVIDE FLOOR CLEANOUTS IN SHAPE TO MATCH ARCHITECTURAL FLOORING W/ HEAVY DUTY. SCORIATED NICKEL BRONZE TOP, ADJUSTABLE ABOVE TO FINISHED FLOOR, WALL CLEANOUT W/ CI FERRULE & CADMIUM PLATED CI COUNTER SUNK PLUG W/ ROUND SMOOTH NICKEL BRONZE WALL ACCESS COVER & FLUSH OVER WALL FRAME.
   - D. PROVIDE WATER PRESSURE REDUCING VALVES; ASSE 1003, WORKING PRESSURE OF 150 PSIG, BRONZE FOR NPS 2 & SMALLER; CAST IRON W/ BRONZE TRIM FOR LARGER.
   - E. WATER HAMMER ARRESTERS PISTON TYPE W/ PRESSURIZED METAL-TUBE CUSHIONING CHAMBER. PROVIDE WHERE ANY FLUSH VALVES OR QUICK ACTING VALVES ARE USED. MANUFACTURERS: AMTROL, JOSAM, SIOUX CHIEF, WATTS, ZURN.
7. WATER HEATERS
   - A. PROVIDE THERMOMETERS & WELLS AT ALL WATER HEATERS. PROVIDE PRESSURE TEST PLUGS AND GAUGES AT WATER/FIRE SERVICES, BOOSTER PUMPS, ETC, SO THAT PROPER TESTING/ BALANCING & TROUBLE SHOOTING CAN BE ACCOMPLISHED.
   - B. DOMESTIC HOT WATER EXPANSION TANKS BE WELDED STEEL, DIAPHRAGM TYPE TANK, AND PRE_CHARGED TO THE MINIMUM OPERATING PRESSURE. TANKS SHALL BE SUITABLE FOR DOMESTIC WATER SERVICE. PROVIDE BY AMTROL, BELL & GOSSETT, WATTS.
8. PUMPS
   - A. RECIRCULATION PUMPS - HORIZONTAL, OIL-LUBRICATED, ALL BRONZE. 125PSI. NON-OVERLOADING MOTOR.
9. BACKFLOW PREVENTERS
   - A. BACKFLOW PREVENTERS PROVIDE WHERE SHOWN ON PLANS OR AS REQUIRED BY CODE/AHJ THE FOLLOWING TYPES OF BACKFLOW PREVENTERS. PROVIDE ISOLATION VALVE AHEAD OF BACKFLOW PREVENTERS. EQUIVALENT BACKFLOW PREVENTS BY WATTS, FEBCO, LAWLER.
     1) REDUCED PRESSURE ZONE PRINCIPLE (1/4"-1/2"): WATTS SERIES 009 REDUCED PRESSURE BACKFLOW PREVENTER COMPLETE WITH STRAINERS AND VALVES.
     2) REDUCED PRESSURE ZONE PRINCIPLE (3/4"-10"): WATTS SERIES 909 REDUCED PRESSURE BACKFLOW PREVENTER COMPLETE WITH STRAINERS AND VALVES. PROVIDE ISOLATION VALVE AHEAD OF BACKFLOW PREVENTERS. PROVIDE WITH AIR GAP FITTING AND PIPE TO FLOOR DRAIN.
     3) DOUBLE CHECK VALVE (1/2"-2"): WATTS SERIES 007 DOUBLE CHECK VALVE ASSEMBLY COMPLETE WITH BALL TYPE TEST COCKS, FULL PORT BALL VALVE SHUT OFFS AND STRAINER.
     4) DOUBLE CHECK VALVE (2-1/2"-10"): WATTS SERIES 707 DOUBLE CHECK VALVE ASSEMBLY COMPLETE WITH BALL TYPE TEST COCKS, OSAY VALVE SHUT OFFS AND STRAINER. EPOXY COATED CAST IRON CHECK VALVE BODIES WITH BRONZE SEATS.
     5) PRESSURE VACUUM BREAKERS (1/2"-2"): WATTS SERIES 800M4QT PRESSURE VACUUM BREAKER WITH INTEGRAL BALL VALVE SHUT OFFS.
     6) PRESSURE VACUUM BREAKERS (3/8"-1/2"): WATTS SERIES 008QT PRESSURE VACUUM BREAKER FOR ANTI-SPILL APPLICATIONS, WITH INTEGRAL BALL VALVE SHUT OFFS.
     7) ATMOSPHERIC VACUUM BREAKER (1/4"-3"): WATTS SERIES 288A ATMOSPHERIC VACUUM BREAKER IN PLAIN BRASS FINISH.
     8) HOSE BIBB VACUUM BREAKERS VACUUM BREAKERS FOR HOSE END CONNECTIONS SHALL BE WATTS SERIES 8 NON-REMOVABLE TYPE.
10. PLUMBING EXECUTION
    - A. DO NOT ROUTE ANY WATER PIPING IN AREAS SUBJECT TO FREEZING CONDITIONS SUCH AS EXTERIOR WALLS, ATTICS, EXTERIOR SOFFITS, ETC. ALL WATER PIPING SHALL BE ROUTED INSIDE THE INSULATED ENVELOPE OF THE STRUCTURE.
    - B. ALL COLD SURFACE PIPING AND EQUIPMENT SHALL BE INSULATED. ALL HOT WATER PIPING AND EQUIPMENT SHALL INSULATED TO MEET ADOPTED ENERGY CODE.
    - C. PROVIDE TRAP PRIMERS OR TRAP SEAL DEVICES FOR ALL FLOOR DRAINS.
    - D. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED & CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNION ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.
    - E. ALL PIPING SHALL BE PROPERLY SUPPORTED WITH HANGERS AND SUPPORTS SPECIFICALLY INTENDED FOR THAT PURPOSE. PROVIDE CLEVIS HANGERS, UNISTRUT BRACKETS AND PIPE CLAMPS AND SIMILAR SYSTEMS. PROTECT INTEGRITY OF INSULATION AND PROVIDE RIGID INSULATION INSERTS OR PIPE SADDLES AS NECESSARY.
    - F. AFTER PIPING IS IN PLACE TEST LINES TO INSURE NO LEAKS.
    - G. ALL PIPING & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.
    - H. ESCUTCHEONS - PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.
    - I. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT TOPS, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.
    - J. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING BANKS W/ FIXTURES UTILIZING FLUSH VALVES IN ANY CAPACITY, LOCATE ARRESTER BETWEEN LAST TWO FIXTURES SERVED ON BRANCH LINE.

END OF DIVISION 220000

COORDINATION NOTES

1. *COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.*
2. *THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.*
3. *COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.*
4. *CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.*
5. *TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.*
6. *WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.*
7. *COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.*
8. *DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.*
9. *CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.*
10. *ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.*
11. *WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.*
12. *COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.*
13. *COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.*

DEMOLITION NOTES

1. *ALL WORK SHOWN DARK AND DASHED IS TO BE DEMOLISHED. WORK SHOWN LIGHT IS EXISTING TO REMAIN.*
2. *REFER TO ARCHITECTURAL PLANS FOR FURTHER EXTENT OF DEMOLITION REQUIREMENTS.*
3. *ALL EXISTING PIPING SCHEDULED FOR DEMOLITION THAT ROUTES BELOW SLAB SHALL BE GROUND FLUSH WITH FLOOR, PLUGGED AND THE FLOOR PATCHED TO MATCH SURROUNDING FLOOR.*
4. *COORDINATE ALL DEMOLITION WORK WITH OWNER.*
5. *CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF UTILITIES BELOW GRADE.*
6. *MAINTAIN ALL EXISTING DEVICES, EQUIPMENT, ASSOCIATED CIRCUITS ETC, SHOWN AS EXISTING TO REMAIN OR OTHERWISE UNRELATED TO THE SCOPE OF THE PROJECT IN WORKING ORDER.*
7. *CONTRACTOR SHALL REMOVE LAY-IN CEILINGS, LIGHT FIXTURES, ETC. AS REQUIRED FOR CONSTRUCTION WHERE NEEDED PRIOR TO DEMOLITION AND REPLACE SAME AFTER CONSTRUCTION. EXISTING CONDUITS ABOVE CEILINGS SHALL BE RELOCATED AND/OR TEMPORARILY REMOVED TO FACILITATE THE INSTALLATION OF NEW EQUIPMENT.*
8. *THE OWNER SHALL REMOVE ALL ITEMS THEY DESIRED TO SALVAGE PRIOR TO CONSTRUCTION BEGINNING.*
9. *NOTES AND DRAWINGS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND MAY NOT INDICATE ALL ITEMS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND THE SCOPE OF WORK FOR THE CONTRACT PRIOR TO BID. ANY EXISTING CONDITION WHICH IS APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.*
10. *REFER TO NEW WORK PLANS FOR ANY ITEMS THAT MAY REQUIRE RELOCATION AFTER DEMOLITION.*
11. *PROPERLY DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE.*
12. *REMOVE ALL MISCELLANEOUS CONDUITS, PIPES, ETC, THOUGH NOT SPECIFICALLY SHOWN ON PLAN, THAT ARE EITHER UNUSED OR WILL BECOME UNUSED DUE DEMOLITION ACTIVITIES, IN ORDER TO PROVIDE A "CLEAN" SPACE FOR THE OWNER.*
13. *PROTECT ALL EXISTING SURFACES AND EQUIPMENT DURING CONSTRUCTION. EXISTING ITEMS TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK, AS REQUIRED. ANY ITEMS DAMAGED OR MARRED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNERS SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.*
14. *PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, CONDUITS, PIPES, ETC.*
15. *REMOVE ALL ITEMS SHOWN IN WALLS TO BE DEMOLISHED. ALL ELECTRICAL CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARDS AND PROPERLY TERMINATED.*
16. *SAW CUT FLOOR FOR THE INSTALLATION OF NEW SANITARY PIPING. REFER TO PLUMBING PLANS SHOWING NEW WORK.*
17. *SAVE, CLEAN, AND RE-LAMP ALL LIGHT FIXTURES NOTED AS BEING RELOCATED. REFER TO NEW WORK PLANS AND LIGHT FIXTURE SCHEDULE FOR DESCRIPTIONS, QUANTITIES, AND LOCATIONS OF FIXTURES TO BE RE-USED.*

GENERAL NOTES

1. *SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.*
2. *IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.*
3. *THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.*
4. *FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.*
5. *THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.*

GEN. RENOVATION NOTES

1. *DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT IS NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT.*
2. *EXISTING PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.*
3. *SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC AND AVOID CUTTING EXISTING CONDUITS BY NOT OVER-CUTTING SLAB DEPTH.*
4. *SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. X-RAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.*
5. *HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN PANELBOARDS INDICATED. UTILIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE, PROVIDE NEW BREAKER.*
6. *EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.*
7. *CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.*
8. *ALL LIGHTING FIXTURES THAT ARE RELOCATED OR OTHERWISE AFFECTED BY THE SCOPE OF WORK SHALL BE CLEANED AND RELAMPED.*

FIRE SEALING NOTES

1. *COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.*
2. *COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.*
3. *DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.*
4. *COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.*
5. *PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.*
6. *PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.*
7. *FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.*
8. *PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.*

GENERAL PLUMBING NOTES

1. *COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.*
2. *NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.*
3. *PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:*
   - 3.1. *IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.*
   - 3.2. *IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.*
   - 3.3. *EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.*
   - 3.4. *AT THE BASE OF EACH WASTE OR SOIL STACK.*
   - 3.5. *NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.*

NOTES:

THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO — COREY ROBERT BANDEL — E-91209 — REGISTERED PROFESSIONAL ENGINEER — 12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
18606 DETROIT AVE
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

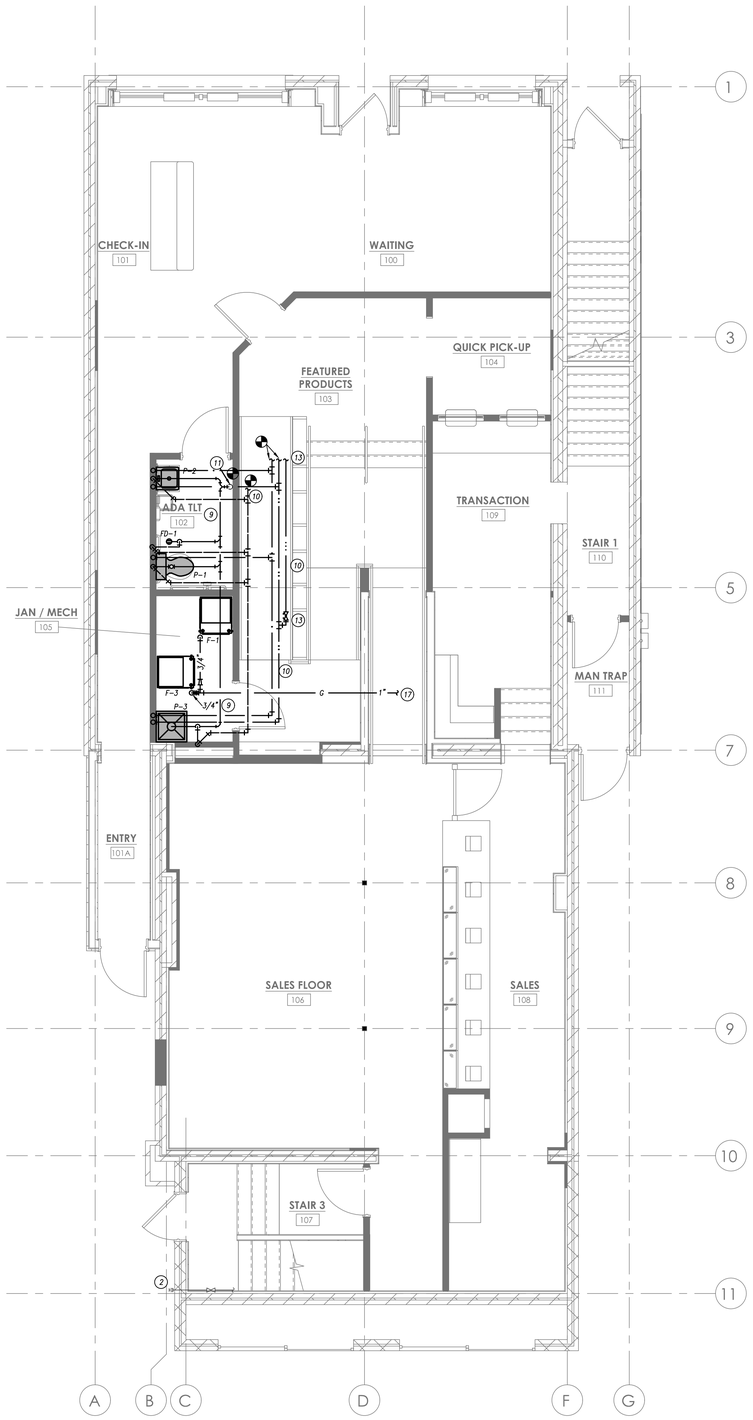
ISSUE DATE: 12/20/2024

SHEET NAME: PLUMBING SYMBOLS AND NOTES

SHEET NO. **P001**

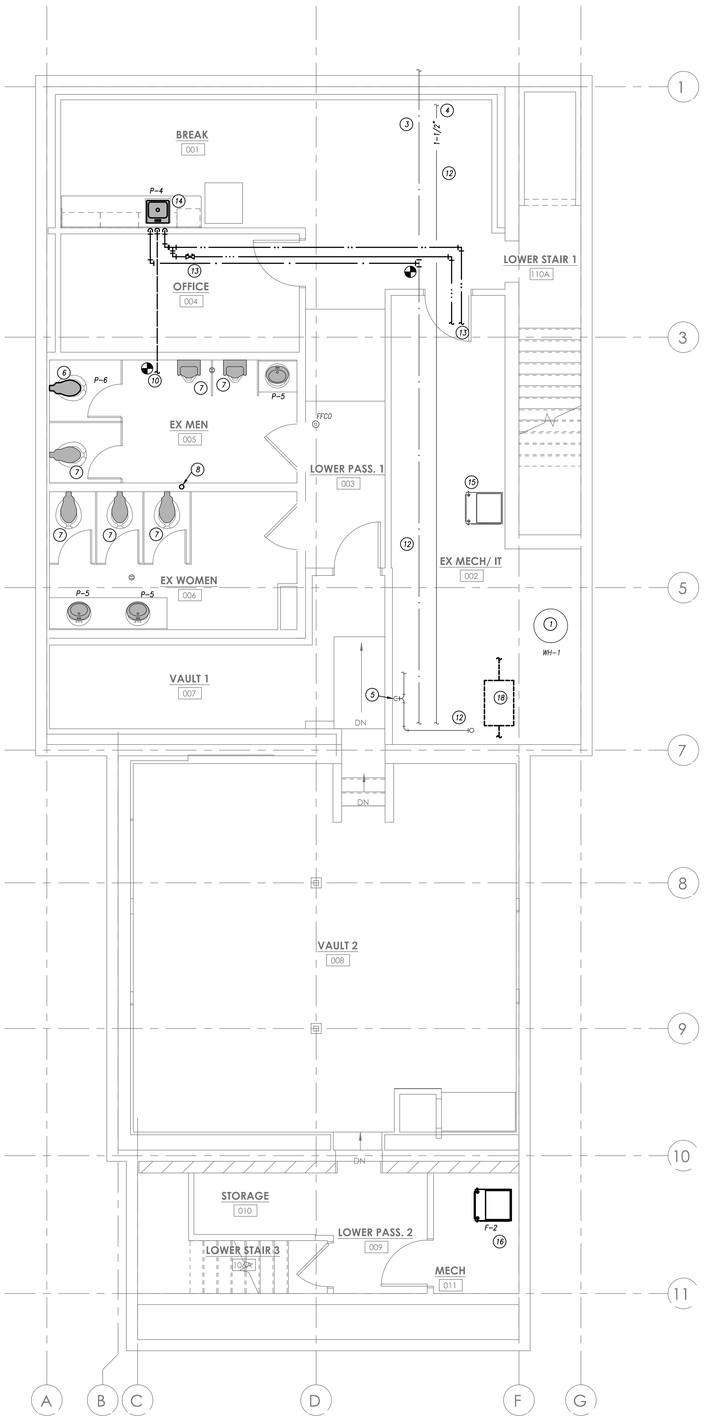
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GROUND FLOOR PLAN - PLUMBING

1/4" = 1'-0"



LOWER LEVEL FLOOR PLAN - PLUMBING

1/4" = 1'-0"

GENERAL PLUMBING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOD RIM OF FIXTURE.
6. NOT ALL INTERIOR CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
7. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS, TO BE INSTALLED AT CONTRACTOR'S DISCRETION AND IN COMPLIANCE WITH ADOPTED VERSION OF PLUMBING CODE AND/OR AHJ.
   7.1. PROVIDE TRAP SEALS LISTED FOR PROPOSED USE.
   7.2. PROVIDE TRAP PRIMERS. 1/2" TRAP PRIMER PIPING TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "K" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.

PLUMBING PLAN KEYED NOTES

1. EXISTING 74 GALLON GAS WATER HEATER TO REMAIN. PROVIDE NEW EXPANSION TANK AND RECIRCULATION PUMP. REFER PLUMBING SERIES SHEETS FOR ADDITIONAL REQUIREMENTS
2. EXISTING WALL HYDRANT, SHUTOFF, AND PIPING TO REMAIN.
3. EXISTING WATER LINE SERVICE. MODIFY EXISTING AS REQUIRED FOR REMOVAL AND NEW WORK.
4. EXISTING GAS LINE SERVICE. MODIFY EXISTING AS REQUIRED FOR REMOVAL AND NEW WORK.
5. EXISTING 4" SANITARY. MODIFY EXISTING AS REQUIRED FOR REMOVAL AND NEW WORK.
6. EXISTING FLOOR MOUNTED WATER CLOSET TO BE REMOVED AND PROVIDE NEW TO MATCH EXISTING AS SCHEDULED. CONTRACTOR TO FIELD VERIFY.
7. EXISTING PLUMBING FIXTURE TO REMAIN. CONTRACTOR TO FIELD VERIFY PROPER FUNCTION AND REPAIR AS NECESSARY.
8. 4" SANITARY PIPING FROM GROUND FLOOR. TIE INTO EXISTING 4" SANITARY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF TIE IN. COORDINATE WALL ACCESS FOR TIE IN WITH ARCHITECT.
9. ROUTE SANITARY, HOT WATER RECIRCULATION, AND WATER SUPPLY PIPING ABOVE LOWER LEVEL CEILING. CONTRACTOR TO FIELD VERIFY TIE IN LOCATION.
10. TIE NEW VENT PIPING INTO EXISTING VENT THROUGH ROOF. CONTRACTOR TO FIELD VERIFY EXACT TIE IN LOCATION.
11. DROP SANITARY DOWN TO LOWER LEVEL. CONTRACTOR TO FIELD VERIFY TIE IN LOCATION.
12. CONTRACTOR TO FIELD VERIFY EXISTING PIPING LOCATIONS AND SIZES.
13. PROVIDE HOT WATER RECIRCULATION LINE WITH CIRCUIT SETTERS AS NEEDED SUCH THAT MAXIMUM "DEAD END" HOT WATER LINE DOES NOT EXCEED 50'. ROUTE RECIRCULATION LINE BACK TO EXISTING HOT WATER HEATER. PROVIDE REQUIRED PIPING AND OFFSETS AS NEEDED FOR ROUTING. LOCATE CIRCUIT SETTER ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL. REFER WATER HEATER DETAIL, PLUMBING SERIES SHEETS.
14. CONNECT NEW PLUMBING FIXTURE INTO EXISTING SANITARY UNDERGROUND PIPING. CONTRACTOR TO FIELD VERIFY EXISTING TIE IN LOCATION. COORDINATE EXISTING WALL AND FLOOR REMOVAL AND REPLACEMENT AS REQUIRED FOR CONNECTION WITH ARCHITECT.
15. EXISTING FURNACE TO REMAIN.
16. NEW FURNACE TIED INTO EXISTING GAS PIPING. PROVIDE NEW VALVE.
17. ROUTE NEW GAS PIPING AS REQUIRED TO TIE INTO EXISTING GAS PIPING. CONTRACTOR TO FIELD VERIFY EXACT TIE IN LOCATION.
18. EXISTING GREASE TRIP AND WASTE TO BE REMOVED.

NOTES:
THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO
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REGISTERED PROFESSIONAL ENGINEER
12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
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LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071
ISSUE DATE: 12/20/2024

SHEET NAME: FLOOR PLAN - PLUMBING
SHEET NO. P101

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PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	INSULATION THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	ELASTOMERIC	3/4" (HOT ONLY)
NATURAL GAS - ABOVE GRADE	2-1/2 & Up	SCH. 40	STEEL- SEEMED	WELDED	75 PSI - 1HR	YES	----	---
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL- SEEMLESS	THREADED IRON	75 PSI - 1HR	YES	----	---
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	----	---
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	----	---
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	----	---
DRINKING FOUNT. DRAIN	ALL	----	----	----	----	YES	ELASTOMERIC	1/2"
CONDENSATE DRAIN ON ROOF	3/4"-2"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	----	---
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)

NOTES
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS MODEL	FITTINGS DESCRIPTION	PIPE SIZES WASTE	VENT	DCW	DHW
P-1	TOTO DRAKE MS776124CEFG	ADA COMPLIANT WATER CLOSET: FLUSH TANK, WHITE ELONGATED BOWL, 1.28 GALLON SIPHON JET FLUSHING SYSTEM, 2-1/8" TRAP DIAMETER, WITH POLISHED CHROME FLUSH HANDLE MOUNTED ON WIDE SIDE OF RESTROOM STALL, WITH HANDLE STOP VALVE AND METAL FLEXIBLE WATER RISER	TOTO SC534	SEAT: WHITE, SOLID PLASTIC, OPEN FRONT, ELONGATED	4"	2"	1/2"	--
P-2	AMERICAN STANDARD 0355.012	ADA COMPLIANT LAVATORY: WHITE WALL HUNG LAVATORY 20"x18" WITH 4" BACK. FAUCET HOLES ON 4" CENTERS, WITH CONCEALED ARM CARRIER. PROVIDE HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS. MOUNT TOP OF RIM AT 34" ABOVE FLOOR	AMERICAN STANDARD 2175.504 WATTS LFMMV-M1	FAUCET: 4" CENTERSET, CHROME FINISH WITH 4" METAL LEVER HANDLE, 1/2" CONNECTIONS, 1.5 GPM MAX FLOWRATE, CHROME PLATED BRASS GRID DRAIN, TAILPIECE, AND P-TRAP INSULATE THE TAILPIECE, P-TRAP, AND WATER RISERS THERMOSTATIC MIXING VALVE: BRONZE BODY THERMOSTATIC MIXING VALVE WITH 1/2" CONNECTIONS, FILTER WASHERS, CHECK VALVES AND LOCKABLE ADJUSTMENT CAP. MOUNT IN AN ACCESSIBLE LOCATION BELOW LAVATORY. SET TEMP TO 110 DEGREE F.	2"	2"	1/2"	1/2"
P-3	FIAT MSB-2424	JANITORS SINK: WHITE 24"x24"x10" ONE PIECE MOLDED STONE MOP BASIN, WITH STAINLESS STEEL DRAIN BODY WITH 3" WASTE WITH STAINLESS STEEL WALL GUARDS	FIAT 830-AA	CHROME PLATED BRASS WALL MOUNTED FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, 3/4" HOSE THREAD SPOUT, INDEXED HANDLES, WITH 5 FOOT HOSE AND BRACKET, MOP HANGER AND, HOSE BACK	3"	2"	1/2"	1/2"
P-4	ELKAY LRAD-172255	SINGLE COMPARTMENT ADA SINK: SEAMLESS 18 GAUGE, TYPE 302 STAINLESS STEEL, SATIN FINISH WITH FULL UNDERCOAT, HOLES 4" ON CENTERS, 5 1/2" BOWL DEPTH, SELF RIMMING, PROVIDE HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS	AMERICAN STANDARD 7500.140 WATTS LFMMV-M1	CENTERSET GOOSENECK FAUCET WITH METAL LEVER HANDLES, 1/2" CONNECTIONS, POLISHED CHROME FINISH WITH BASKET STRAINER AND DRAIN, CHROME PLATED BRASS TAILPIECE AND P-TRAP, INSULATE THE TAILPIECE, P-TRAP, AND WATER RISERS THERMOSTATIC MIXING VALVE: BRONZE BODY THERMOSTATIC MIXING VALVE WITH 1/2" CONNECTIONS, FILTER WASHERS, CHECK VALVES AND LOCKABLE ADJUSTMENT CAP. MOUNT IN AN ACCESSIBLE LOCATION BELOW SINK. SET TEMP TO 110 DEGREE F.	2"	2"	1/2"	
P-5	EXISTING TO REMAIN	EXISTING LAVATORY: PROVIDE NEW HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS. PROVIDE NEW TRAP PRIMER IF EQUIPPED.	EXISTING TO REMAIN WATTS LFMMV-M1	EXISTING FAUCET TO REMAIN: PROVIDE NEW CHROME PLATED BRASS TAILPIECE AND P-TRAP, INSULATE THE TAILPIECE, P-TRAP, AND WATER RISERS THERMOSTATIC MIXING VALVE: BRONZE BODY THERMOSTATIC MIXING VALVE WITH 1/2" CONNECTIONS, FILTER WASHERS, CHECK VALVES AND LOCKABLE ADJUSTMENT CAP. MOUNT IN AN ACCESSIBLE LOCATION BELOW SINK. SET TEMP TO 110 DEGREE F.	--	--	1/2"	1/2"
P-6	MATCH EXISTING	WATER CLOSET: REPLACE EXISTING WATER CLOSET WITH NEW TO MATCH EXISTING.	MATCH EXISTING MATCH EXISTING	EXPOSED WATER CLOSET FLUSH VALVE: MATCH EXISTING SEAT: MATCH EXISTING.	--	--	--	--

PLUMBING PUMP SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	GPM	HEAD FT. W.C.	ELECTRICAL CHARACTERISTICS	MAX. RPM	NOTES
DHW RETURN (DHW)	BELL & GOSSETT	ECOCIRC E3-6V	2.5	6	ECM, VARIO, 120V., 1#	VARIO	1

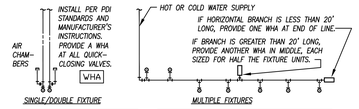
NOTES LEGEND
1 - ALL BRONZE CONSTRUCTION.

FLOOR DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"Ø	2"	---

EXPANSION TANK SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TOTAL VOLUME
DOMESTIC HOT WATER	AMTROL	ST-8	3.2

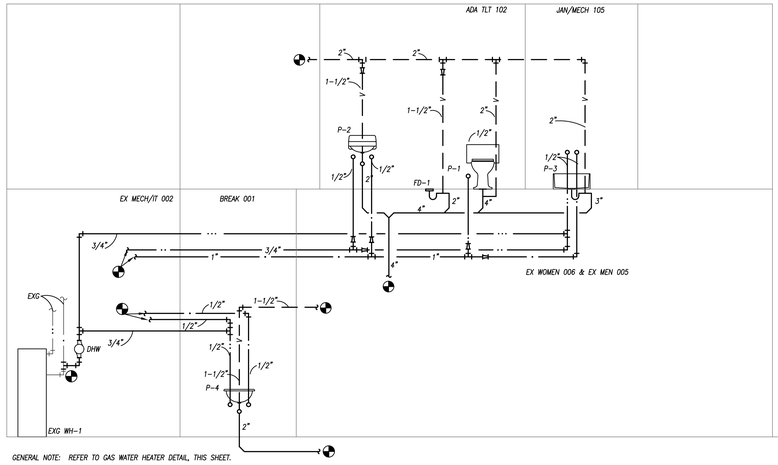


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

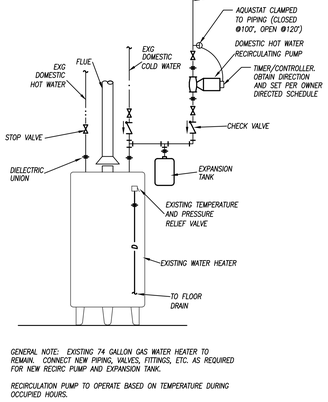
FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE.

WATER HAMMER ARRESTERS
NOT TO SCALE



GENERAL NOTE: REFER TO GAS WATER HEATER DETAIL, THIS SHEET.

PLUMBING RISER
NOT TO SCALE

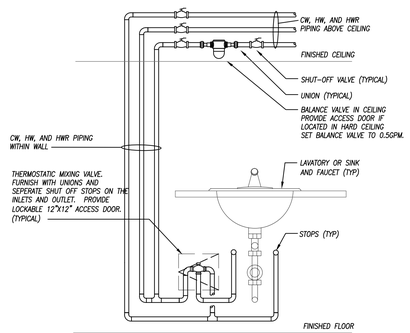


GENERAL NOTE: EXISTING 74 GALLON GAS WATER HEATER TO REMAIN. CONNECT NEW PIPING, VALVES, FITTINGS, ETC. AS REQUIRED FOR NEW RECIRC PUMP AND EXPANSION TANK.

RECIRCULATION PUMP TO OPERATE BASED ON TEMPERATURE DURING OCCUPIED HOURS.

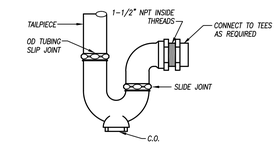
GAS WATER HEATER DETAIL
NO SCALE

HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC
NOT TO SCALE



NOTES:
1. PROVIDE BALANCE VALVE ABOVE CEILING. PROVIDE WITH A LOCKABLE ACCESS DOOR IF LOCATED IN A HARD CEILING.
2. EACH LAV SHALL BE SERVED BY A MIXING VALVE INSTALLED BEHIND A LOCKABLE ACCESS DOOR LOCATED 15" TO 17" A.F.F.
3. REFER TO FLOOR PLANS FOR PIPE SIZES AND TYPE/QUANTITY OF FIXTURES.
4. THIS DETAIL IS INTENDED TO SHOW THE GENERAL INTENT OF THE HOT WATER CIRCULATION PIPING TO A FIXTURE. NOT ALL FIXTURE REQUIREMENTS, FITTINGS, AND DEVICES ARE SHOWN.

TYPICAL SINGLE LAV/SINK PIPING DETAIL
NOT TO SCALE



P-TRAP DETAIL
NOT TO SCALE

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VERVE PROJECT NO.: 24071
ISSUE DATE: 12/20/2024

SHEET NAME:
PLUMBING SCHEDULES & DETAILS

SHEET NO.
P501

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MECHANICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL

- *HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)*
- *SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)*
- *CONICAL BELLMOUTH ROUND TAKEOFF*
- *ROUND DUCT RUNOUT WITH FLEX DUCT*
- *DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)*
- *FD:FIRE DAMPER FS:FIRE/SMOKE DAMPER SD:SMOKE DAMPER BD:BACKDRAFT DAMPER (GRAVITY)*
- *AUTOMATIC MOTORIZED DAMPER*
- *SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM)*
- *LINEAR/SLOT DIFFUSER*
- *RETURN GRILLE OR EXHAUST REGISTER*
- *SUPPLY AIR FLOW INDICATOR*
- *RETURN AND EXHAUST AIR FLOW INDICATOR*
- *THERMOSTAT*
- *TEMPERATURE SENSOR*
- *HUMIDISTAT*
- *CONTROL WIRING*

MECHANICAL PIPING

- *RL ——— REFRIGERANT LIQUID*
- *RS ——— REFRIGERANT SUCTION*
- *D ——— DRAIN (CONDENSATE)*

GENERAL SYMBOLS

- *INDICATES CONNECT TO EXISTING*

MECHANICAL SPECIFICATIONS

DIVISION 230000 - MECHANICAL

1. MECHANICAL GENERAL REQUIREMENTS
   - A. REFER TO GENERAL MECHANICAL, ELECTRICAL & PLUMBING REQUIREMENTS
2. SHEET METAL WORK
   - A. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.
   - B. COORDINATE ROUTING OF DUCTWORK W/ OTHER CONTRACTORS SUCH THAT PIPING, ELECTRICAL CONDUIT, & ASSOCIATED SUPPORTS ARE NOT ROUTED THROUGH DUCTWORK. CONSTRUCT SUPPLY DUCTS TO MEET SMACNA POSITIVE PRESSURE OF 3" WG, CONSTRUCT RETURN, OUTDOOR & EXHAUST DUCTWORK UPSTREAM OF FANS TO MEET SMACNA NEGATIVE PRESSURE OF 1" WG, CONSTRUCT EXHAUST DUCTWORK DOWNSTREAM OF FANS TO MEET SMACNA POSITIVE PRESSURE OF 1" WG.
   - C. EXPOSED DUCTWORK TO BE FIELD PAINTED SHALL HAVE GALVANIZED METAL PRIMER APPLIED IN SHOP AFTER FABRICATION & PRIOR TO SHIPPING.
   - D. SEAL DUCTWORK W/ HEAVY LIQUID SEALANT, HARDCAST IRONGRIP 601, DESIGN POLYMER DP 1010, UNITED MCGILL DUCT SEALER OR APPROVED EQUAL, APPLIED ACCORDING TO SEALANT MANUFACTURER'S INSTRUCTIONS.
   - E. EXPOSED SPIRAL DUCT SHALL BE LINDAB OR APPROVED EQUAL GASKETED STYLE.
   - F. DUCTS SHALL BE CONNECTED TO FANS, FAN CASINGS & FAN PLENUMS BY MEANS OF FLEXIBLE CONNECTORS. FLEXIBLE CONNECTORS SHALL BE NEOPRENE COATED GLASS CLOTH CANVAS CONNECTIONS, DURO-DYNE, ELGEN, VENTFABRIC OR EQUAL. FLEXIBLE CONNECTORS SHALL HAVE FLAME SPREAD OF 25 OR LESS & SMOKE DEVELOPED RATING NOT HIGHER THAN 50, MAKE AIRTIGHT JOINTS & INSTALL W/ MINIMUM 1-1/2" SLACK.
   - G. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.
3. DUCTWORK SPECIALTIES
   - A. FLEXIBLE DUCTS - THERMAFLEX OR EQUAL SOUND RATED TYPE G-KM INSULATED, (DUCT W/O PUBLISHED ACOUSTICAL ATTENUATION RATINGS NOT ACCEPTABLE), TAKE OFF FITTING SHALL BE HI-EFF STYLE W/ LOCKING DAMPER. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5'-0".
   - B. DIFFUSERS & GRILLES - SEE SCHEDULE. EQUIVALENT BY PRICE, TUTTLE & BAILEY, TITUS, METAL-AIRE, KRUEGER. COORDINATE COLOR, MOUNTING W/ DUCT, FRAME, LOCATIONS & CEILINGS WITH ARCHITECTURAL PLANS. SELECT AIR DEVICES TO LIMIT ROOM NOISE LEVEL TO NO HIGHER THAN NC-30 UNLESS OTHERWISE SHOWN. PROVIDE DEVICES W/ SOFT PLASTIC GASKET TO MAKE AN AIRTIGHT SEAL AGAINST MOUNTING SURFACE. SUBMIT COMPLETE SHOP DRAWINGS INCLUDING INFORMATION ON NOISE LEVEL, PRESSURE DROP, THROW, CFM FOR EACH AIR DEVICE, STYLES, BORDERS, ETC, CLEARLY MARKED W/ SPECIFIED EQUIPMENT NUMBER. PROVIDE CEILING SUPPLY AIR DIFFUSERS & RETURN AIR GRILLES OF LAY-IN OR SURFACE MOUNTED TYPE AS REQUIRED TO BE COMPATIBLE W/ CEILING CONSTRUCTION. PROVIDE CEILING DIFFUSERS & GRILLES W/ WHITE ENAMEL FINISH UNLESS NOTED OTHERWISE. PROVIDE SLOT PLENUMS BY DIFFUSER MANUFACTURER, PLENUMS SHALL BE INTERNALLY INSULATED BY MANUFACTURER.
   - C. LOUVERS - GREENHECK TYPE FSK-400 FABRICATED GALVANIZED STEEL LOUVER W/ TRIM FLANGE. EQUIVALENT BY RUSKIN, LOUVERS & DAMPERS, GREENHECK, AMERICAN WARMING & VENTILATING, INDUSTRIAL LOUVERS, ACME. COORDINATE FINISH W/ ARCHITECT.
   - D. PROVIDE BALANCING DAMPERS, MANUFACTURED BY RUSKIN, GREENHECK, NAILOR INDUSTRIES, CESCO, LOUVERS & DAMPERS, POTTORFF OR APPROVED EQUAL, WHERE SHOWN ON DRAWINGS & WHEREVER NECESSARY FOR COMPLETE CONTROL OF AIR FLOW. SPLITTER DAMPERS SHALL BE CONTROLLED BY LOCKING QUADRANTS; PROVIDE YOUNG REGULATOR OR VENTLOK END BEARINGS FOR DAMPER ROD, RECTANGULAR VOLUME DAMPERS SHALL BE OPPOSED BLADE INTERLOCKING TYPE, ROUND VOLUME DAMPERS SHALL BE BUTTERFLY TYPE CONSISTING OF CIRCULAR BLADE MOUNTED TO SHAFT.
   - E. FIRE DAMPERS - STATIC & DYNAMIC; UL 555, CLOSING RATING UP TO 4" WG STATIC PRESSURE CLASS & MIN. 4000-FPM VELOCITY, RATING OF 1-1/2 & 3 HOURS AS REQ'D. CURTAIN TYPE WITH BLADES OUTSIDE AIRSTREAM EXCEPT WHEN LOCATED BEHIND GRILLE WHERE BLADES MAY BE INSIDE AIRSTREAM. PROVIDE WITH MOUNTING SHEET METAL SLEEVE.
   - F. FIRE/SMOKE & SMOKE DAMPERS - MULTIPLE-BLADE TYPE; GALVANIZED STEEL FRAME & CONSTRUCTION, UL 555S, ROLL-FORMED BLADES, HORIZONTAL, INTERLOCKING, 0.034-INCH- THICK, GALVANIZED SHEET STEEL. LEAKAGE CLASS I. RATED PRESSURE & VELOCITY TO EXCEED DESIGN AIRFLOW CONDITIONS. PROVIDE WITH MOUNTING SHEET METAL MOUNTING SLEEVE TO SUIT INSTALLATION LOCATION. DAMPER MOTORS: TWO-POSITION ACTION, ELECTRICAL CONNECTION: 115 V, SINGLE PHASE, 60 HZ. COORDINATE VOLTAGE WITH FIRE ALARM CONTRACTOR PRIOR TO ORDERING. WHERE BUILDING IS NOT EQUIPPED WITH A FIRE ALARM SYSTEM, PROVIDE A STAND ALONE 120V SMOKE DETECTOR & REMOTE LED INDICATOR LIGHT MOUNTED IN CEILING BELOW DUCT DETECTOR. MOUNT DETECTOR WITHIN 5' OF DAMPER & PROVIDE ALL NECESSARY WIRING & INTERCONNECTIONS TO DAMPER & DETECTOR & RELAYS/POWER SUPPLIES. POWER OPEN, LOCKED & RESET, SPRING CLOSED.
   - G. DAMPER LEAKAGE FOR OUTSIDE AIR AND CONTROL DAMPERS SHALL NOT EXCEED 6.5 CFM/SQUARE FOOT IN FULL CLOSED POSITION AT 4" WG PRESSURE DIFFERENTIAL ACROSS DAMPER. REFERENCE MANUFACTURER & MODEL NUMBER FOR OUTSIDE AIR DAMPERS IS RUSKIN MODEL CD-50.
4. DUCT INSULATION WORK
   - A. DUCT INSULATION & WRAPS SHALL MEET FLAME/SMOKE RATING OF 25/50 PER ASTM E 84.
   - B. LINE ALL LOW PRESSURE SUPPLY & RETURN AIR DUCTWORK W/ 1/2" LINER.
   - C. LINE ALL TRANSFER BOOTS W/ ½" LINER.
   - D. DO NO WRAP EXPOSED SPIRAL DUCTS. PROVIDE PRE-MANUFACTURED 1/2" OR 1" ROUND LINER FOR ALL EXPOSED ROUND DUCTS. CONTRACTOR HAS THE OPTION TO USE DOUBLE WALL PERFORATED LINED ROUND SPIRAL DUCTS FOR EXPOSED DUCTS. WRAP ALL CONCEALED ROUND SUPPLY HVAC DUCTWORK W/ CERTAINTEED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS OR IN UNFINISHED SHELL SPACES.
   - E. WRAP ALL OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTEED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS. EXPOSED RECTANGULAR INSTALLATIONS SHALL USE 1-1/2" THICK RIGID BOARD INSULATION OR LINED WITH 1" LINER.
5. PIPING
   - A. REFRIGERANT PIPING - COPPER TUBE TYPE ACR, HARD TEMPER NITROGENIZED REFRIGERANT TUBE, ASTM B-88, TYPE L OR K, BRAZED JOINTS. INSULATE W/ ARMAFLEX IN THICKNESS PER ASHRAE 90.1. PROVIDE UV STABILIZED EXTERIOR RATED OR COATED ARMAFLEX OUTDOORS.
   - B. COOLING COIL CONDENSATE PIPING - COPPER ASTM B-88, TYPE L OR K. BRAZED JOINTS. INSULATE W/ ARMAFLEX IN THICKNESS PER ASHRAE 90.1.
6. VALVES
   - A. EQUIVALENT VALVES LISTED ON CURRENT COMPARISON CHARTS OF SPECIFIED VALVE MANUFACTURERS BY MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APOLLO, MUELLER, MUESSCO, WATTS, HAYS, ROCKWELL-NORDSTROM.
   - B. BALL VALVES - 2" & UNDER - BRONZE FULL PORT W/ TEFLON SEATS, BRONZE BALL & INSULATED HANDLE.
   - C. BALANCING VALVES - ARMSTRONG MODEL CBV I OR CBV II, 125 PSI-WP AT 250 DEGREES F., METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.
   - D. CHECK VALVES - 2" & SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLON OR BRONZE DISC & SEAT RING. 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED. 200PSI-WOG/125 PSI-WSP.
7. MINI-SPLIT SYSTEMS
   - A. AHU'S, EVAPORATORS, & CONDENSING UNITS AS SCHEDULED, FACTORY ASSEMBLED INCLUDING COIL, CONDENSATE PAN, FAN MOTOR(S), FILTERS & CONTROLS IN INSULATED CASING W/TXV, ARI RATED, UL LISTED & LABELED FOR INDOOR.
   - B. APPROVED EQUIVALENT MANUFACTURERS: DAIKIN, MITSIBUSHI, LG.
   - C. SUSPENDED UNITS: SUSPEND FROM STRUCTURE USING THREADED RODS, SPRING HANGERS, & BUILDING ATTACHMENTS. SECURE RODS TO UNIT HANGER ATTACHMENTS. ADJUST HANGERS SO UNIT IS LEVEL & PLUMB.
   - D. CONTROLS: INSTALL THERMOSTATS & HUMIDISTATS AT MOUNTING HEIGHT OF 60 INCHES ABOVE FLOOR, MANUFACTURER TO FINAL SIZE ALL REFRIGERANT LINES, PROVIDE ALL VALVES, FITTINGS & ANY OTHER COMPONENTS AS REQUIRED FOR REFRIGERANT LINE LENGTHS INDICATED BY DRAWINGS. PROVIDE ALL REFRIGERANT & OIL REQUIRED FOR EACH REFRIGERANT CIRCUIT.
   - E. UNITS SERVING DATA CLOSETS OR OTHER SPACES WHERE CONSTANT COOLING IS REQUIRED SHALL BE PROVIDED WITH ALL NECESSARY ACCESSORIES & ATTACHMENTS FOR OPERATION TO -10F.
8. EXHAUST FANS
   - A. EQUIVALENT BY COOK, PENN, ACME, GREENHECK, JENNAIRE, CAPTIVE AIR.
   - B. BEARINGS SHALL BE DESIGNED FOR 200,000 HOURS OPERATION, VARIABLE PITCH MOTOR SHEAVES SHALL BE STANDARD.
   - C. FANS SHALL BE FURNISHED WITH ACCEPTABLE ELECTRICAL DISCONNECT & BIRDSCREEN. PROVIDE SINGLE PHASE MOTOR EQUIPPED FANS WITH MOTOR RATED START RELAY. PROVIDE MULTIPHASE MOTOR EQUIPPED FANS WITH MAGNETIC MOTOR STARTER. PROVIDE LOCAL DISCONNECT MEANS FOR ALL FANS. COORDINATE LOCATION OF STARTER & DISCONNECTS WITH OTHER TRADES.
   - D. CEILING & CABINET EXHAUST FANS - AVAILABLE MANUFACTURERS: COOK, PENN, ACME, GREENHECK, JENNAIRE, PANASONIC. SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE. PROVIDE SPEED CONTROLS TO BE FURNISHED TO E/C FOR MOUNTING AT FAN. PROVIDE WALL/ROOF JACKS AS INDICATED ON PLANS.
9. FURNACES, EVAPORATORS, & CONDENSING UNITS
   - A. FURNACE - MIN 90% EFF NATURAL GAS, AGA CERT, ALUMINIZED STEEL HX, MULTI-SPEED DIRECT DRIVE BLOWER MOTOR. PROVIDE 2" OR 3" PLASTIC C/A & FLUE PIPING COMPLETE W/ CONCENTRIC TERMINATION KITS. 2" MERV 7 FILTERS. MOUNT FILTER IN SLIDE RACK W/ HINGED DOOR & LATCH IN R/A DUCT WORK. COIL - BLOW-THRU D/X MODULE, FULLY INSULATED METAL CASING W/ DRAIN PAN & DUCT FLANGES, COPPER TUBES W/ ALUMINUM FINS, W/ TXV.
   - B. CONDENSING UNIT - HEAVY GAUGE BASE, SCROLL COMPRESSOR(S). RATED SEER NOT LESS THAN 10.3, (1) YR PARTS & LABOR SYSTEM WARRANTY & ADDITIONAL 4 YR COMPRESSOR ONLY WARRANTY, ANTI-SHORT CYCLE PREVENTION CONTROLS. PROVIDE LIQUID LINE ANTI-MIGRATION VALVE FOR ALL SYSTEMS WITH LINES LONGER THAN 100 FEET. PROVIDE UNIT WITH SUCTION LINE ACCUMULATORS WHERE CONDENSING UNITS ARE LOCATED BELOW EVAPORATOR COILS. LOUVERED COIL HAIL GUARDS, 30 DEG LOW AMBIENT.
   - C. EQUIVALENT BY TRANE, LENNOX, YORK, CARRIER.
10. SPLIT SYSTEM AHUS, EVAPORATORS, & CONDENSING UNITS
    - A. AHU/EVAPORATOR - FACTORY ASSEMBLED INCLUDING COIL, CONDENSATE PAN, FAN MOTOR(S), FILTERS & CONTROLS IN INSULATED CASING W/ TXV, ARI RATED, UL LISTED & LABELED FOR INDOOR BLOWER COIL UNITS. HEAVY GAUGE, GALV STEEL. INSULATED W/ FIBERGLASS. UL & CSA ELECTRIC HEAT MODULES. HEATERS AS SCHEDULED SINGLE-POINT CONNECTION & TERMINAL STRIP CONNECTIONS. HD NI-CHROM ELEMENTS. INTEGRAL DISC SWITCH & INTERNAL FUSING. 2" MERV 7 FILTERS. MOUNT FILTER IN SLIDE RACK W/ HINGED DOOR & LATCH IN R/A DUCTWORK.
    - B. CONDENSING UNIT - HEAVY GAUGE BASE, SCROLL COMPRESSOR(S), RATED SEER NOT LESS THAN 10.3, (1) YR PARTS & LABOR SYSTEM WARRANTY & ADDITIONAL 4 YR COMPRESSOR ONLY WARRANTY, ANTI-SHORT CYCLE PREVENTION CONTROLS. PROVIDE LIQUID LINE ANTI-MIGRATION VALVE FOR ALL SYSTEMS WITH LINES LONGER THAN 100', PROVIDE UNIT W/ SUCTION LINE ACCUMULATORS WHERE CONDENSING UNITS ARE LOCATED BELOW EVAPORATOR COILS. LOUVERED COIL HAIL GUARDS, 30 DEG LOW AMBIENT.
    - C. EQUIVALENT BY LENNOX, JCI, CARRIER, DAIKIN.
11. PROGRAMMABLE THERMOSTATS
    - A. STAGES OF COOLING & HEATING AS REQUIRED BY STAGES ON SPECIFIED EQUIPMENT. 7-DAY PROGRAMMING CAPABILITY W/ 2 OCC/UNOCC PERIODS/DAY. AUTO HEAT/COOL CHANGE OVER. LOCKING SETPOINTS TO PREVENT TAMPERING. PROVIDE W/ ALL INTERFACES TO OTHER EQUIPMENT AS REQUIRED.
    - B. THERMOSTATS BY HONEYWELL, JOHNSON CONTROLS, WHITE-ROGERS, TRANE, CARRIER OR APPROVED EQUAL
12. MECHANICAL EXECUTION
    - A. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. M/C IS RESPONSIBLE FOR ALL CONTROL & INTERLOCK WIRING UNLESS SPECIFCALLY SHOWN ON ELECTRICAL DRAWINGS. ALL ELECTRICAL WORK SHALL COMPLY W/ ELECTRICAL SPECIFICATIONS.
    - B. ALL PIPING SHALL BE PROPERLY SUPPORTED WITH HANGERS & SUPPORTS SPECIFICALLY INTENDED FOR THAT PURPOSE. PROVIDE CLEVIS HANGERS, UNISTRUT BRACKETS & PIPE CLAMPS & SIMILAR SYSTEMS. PROTECT INTEGRITY OF INSULATION & PROVIDE RIGID INSULATION INSERTS OR PIPE SADDLES AS NECESSARY.
    - C. ALL EXTERIOR CONTROL WIRING SHALL BE IN CONDUIT.
    - D. PROVIDE GROUND-MOUNTED UNITS ON 4", REINFORCED CONCRETE BASE, 6" LARGER THAN UNIT ON EACH SIDE.
    - E. ROOF-MOUNTED UNITS ON EQUIPMENT SUPPORTS OR CURBS, SLOPED AS REQ'D. ANCHOR UNITS TO SUPPORTS. COORDINATE ALL REQUIREMENTS TO MAINTAIN ROOF WARRANTIES.
    - F. PROVIDE FACTORY-AUTHORIZED SERVICE START UP ON EQUIPMENT. TRAIN OWNER'S MAINTENANCE PERSONNEL ON STARTUP, SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE.
    - G. PROVIDE CLEAN FILTERS AT TIME OF PROJECT TURNOVER. PROVIDE
13. FINAL TESTING & ADJUSTMENTS
    - A. FINAL SYSTEM TESTING, BALANCING & ADJUSTMENTS SHALL BE PERFORMED BY CONTRACTOR CERTIFIED BY NEBB, AABC OR OTHER APPROVED AGENCY. PERFORM TEST READINGS ON FANS, UNITS, COILS, ETC. & ADJUST EQUIPMENT TO DELIVER SPECIFIED AMOUNTS OF AIR OR WATER. PREPARE TESTING & BALANCING REPORT LOG SHOWING AIR SUPPLY QUANTITIES, AIR ENTERING & LEAVING TEMPERATURES & PRESSURES, FAN & UNIT TEST READINGS, MOTOR VOLTAGE & AMP DRAWS, ETC., & SUBMIT PDF OF FINAL COMPILATION OF DATA TO ARCHITECT FOR EVALUATION & APPROVAL BEFORE FINAL INSPECTION OF PROJECT. BALANCE AIR SYSTEMS TO WITHIN PLUS OR MINUS 10 PERCENT FOR TERMINAL DEVICES & BRANCH LINES & PLUS OR MINUS 5 PERCENT FOR MAIN DUCTS & AIR HANDLING EQUIPMENT OF AMOUNTS OF AIR SHOWN ON DRAWINGS. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. ADJUST EQUIPMENT TO OPERATE AS INTENDED BY SPECIFICATION. ALIGN BEARINGS & REPLACE BEARINGS THAT HAVE DIRT OR FOREIGN MATERIAL IN THEM W/ NEW BEARINGS WITHOUT ADDITIONAL COST TO OWNER. BALANCE CONTRACTOR SHALL INCLUDE IN REPORT ANY IMPROPERLY INSTALLED OR MISSING BALANCING DEVICES THAT WOULD NEGATIVELY IMPACT SYSTEM OPERATION. ADJUST THERMOSTATS & CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER & EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE & THAT SYSTEM IS OPERATING SATISFACTORILY. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. CALIBRATE, SET, & ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, & OPERATION OF SAFETY CONTROLS. VERIFY CLEAN FILTERS ARE INSTALLED.
14. STARTUP SERVICE
    - A. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICE FOR ALL EQUIPMENT & SYSTEMS.
    - B. COMPLETE INSTALLATION & STARTUP CHECKS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. MAINTAIN WRITTEN RECORDS OF ALL STARTUP ACTIVITIES & ALSO DO THE FOLLOWING:
      1) INSPECT FOR VISIBLE DAMAGE TO ANY PART, CASING OR COMPONENT.
      2) VERIFY THAT LABELS ARE CLEARLY VISIBLE.
      3) VERIFY SERVICE CLEARANCES ARE PROVIDED.
      4) VERIFY THAT CONTROLS ARE CONNECTED & OPERABLE.
      5) VERIFY THAT FILTERS ARE INSTALLED.
      6) CLEAN ALL INTERIOR AND EXTERIOR COMPONENTS OF CONSTRUCTION DEBRIS.
      7) RELEASE AND ADJUST VIBRATION ISOLATORS.
      8) INSPECT ALL ROTATING COMPONENTS FOR DIRECTION AND CORRECT.
      9) START UNIT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
      10) INSPECT & RECORD PERFORMANCE OF INTERLOCKS & PROTECTIVE DEVICES; VERIFY SEQUENCES.
      11) CALIBRATE THERMOSTATS, SENSORS AND SIMILAR EQUIPMENT,
      12) INSPECT CONTROLS FOR CORRECT SEQUENCING OF HEATING, MIXING DAMPERS, REFRIGERATION, & NORMAL & EMERGENCY SHUTDOWN.
      13) AFTER STARTUP & PERFORMANCE TESTING, CHANGE FILTERS, VACUUM HEAT EXCHANGER & COOLING & OUTSIDE COILS, LUBRICATE BEARINGS, ADJUST BELT TENSION, & INSPECT OPERATION OF POWER VENTS.
      14) PROVIDE ONE SPARE SET OF CLEAN FILTERS & DELIVER TO OWNER.
    - C. ADJUSTING
      1) ADJUST INITIAL TEMPERATURE & HUMIDITY SET POINTS.
      2) SET FIELD-ADJUSTABLE SWITCHES & CIRCUIT-BREAKER TRIP RANGES AS INDICATED.
      3) OCCUPANCY ADJUSTMENTS: WHEN REQUESTED WITHIN 12 MONTHS OF DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON-SITE ASSISTANCE IN ADJUSTING SYSTEM TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO TWO VISITS TO SITE OUTSIDE NORMAL OCCUPANCY HOURS FOR THIS PURPOSE, WITHOUT ADDITIONAL COST.
    - D. DEMONSTRATION
      1) ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, & MAINTAIN ALL HVAC EQUIPMENT & SYSTEMS.

END OF DIVISION 230000

COORDINATION NOTES

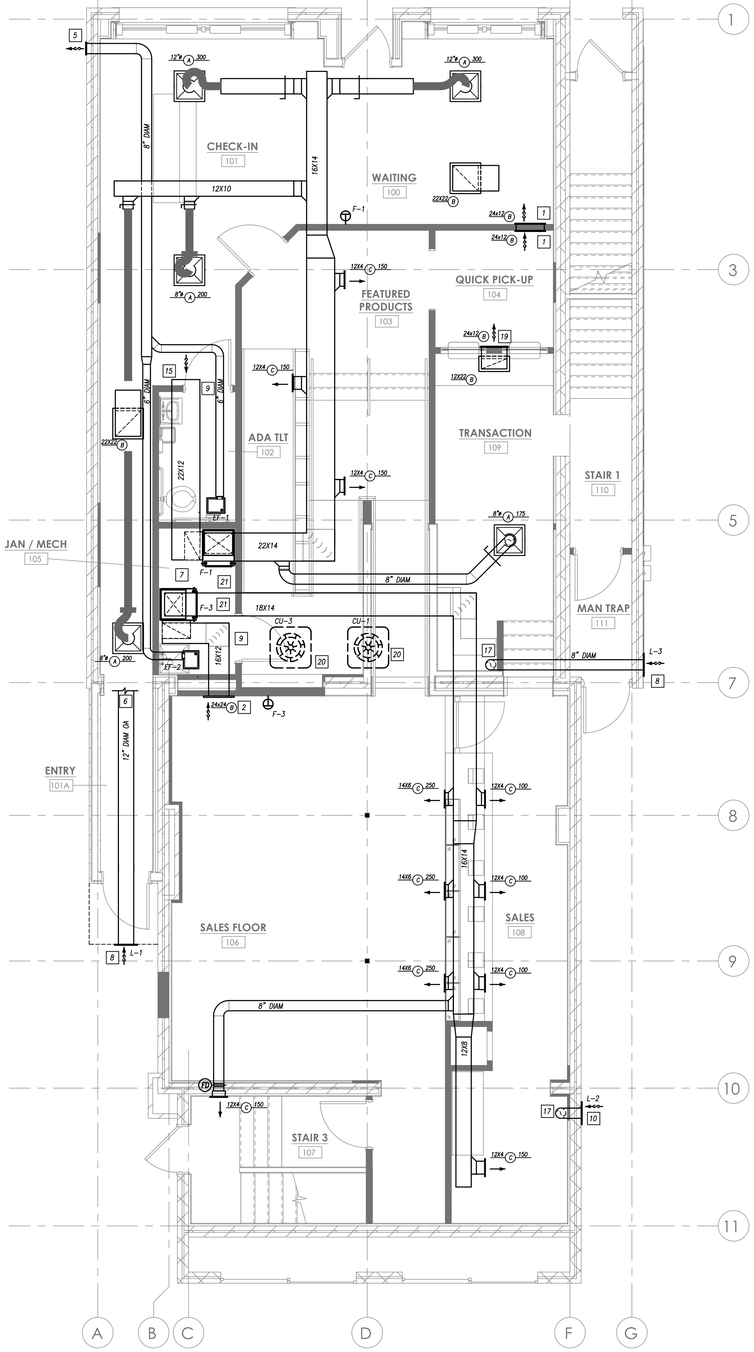
1. *COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.*
2. *THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.*
3. *COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.*
4. *CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.*
5. *TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.*
6. *WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.*
7. *COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.*
8. *DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE. SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.*
9. *CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.*
10. *ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.*
11. *WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.*
12. *COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.*
13. *COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.*

DEMOLITION NOTES

1. *ALL WORK SHOWN DARK AND DASHED IS TO BE DEMOLISHED. WORK SHOWN LIGHT IS EXISTING TO REMAIN.*
2. *REFER TO ARCHITECTURAL PLANS FOR FURTHER EXTENT OF DEMOLITION REQUIREMENTS.*
3. *ALL EXISTING PIPING SCHEDULED FOR DEMOLITION THAT ROUTES BELOW SLAB SHALL BE GROUND FLUSH WITH FLOOR, PLUGGED AND THE FLOOR PATCHED TO MATCH SURROUNDING FLOOR.*
4. *COORDINATE ALL DEMOLITION WORK WITH OWNER.*
5. *CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF UTILITIES BELOW GRADE.*
6. *MAINTAIN ALL EXISTING DEVICES, EQUIPMENT, ASSOCIATED CIRCUITS ETC, SHOWN AS EXISTING TO REMAIN OR OTHERWISE UNRELATED TO THE SCOPE OF THE PROJECT IN WORKING ORDER.*
7. *CONTRACTOR SHALL REMOVE LAY-IN CEILINGS, LIGHT FIXTURES, ETC, AS REQUIRED FOR CONSTRUCTION WHERE NEEDED PRIOR TO DEMOLITION AND REPLACE SAME AFTER CONSTRUCTION. EXISTING CONDUITS ABOVE CEILINGS SHALL BE RELOCATED AND/OR TEMPORARILY REMOVED TO FACILITATE THE INSTALLATION OF NEW EQUIPMENT.*
8. *THE OWNER SHALL REMOVE ALL ITEMS THEY DESIRED TO SALVAGE PRIOR TO CONSTRUCTION BEGINNING.*
9. *NOTES AND DRAWINGS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND MAY NOT INDICATE ALL ITEMS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND THE SCOPE OF WORK FOR THE CONTRACT PRIOR TO BID. ANY EXISTING CONDITION WHICH IS APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.*
10. *REFER TO NEW WORK PLANS FOR ANY ITEMS THAT MAY REQUIRE RELOCATION AFTER DEMOLITION.*
11. *PROPERLY DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE.*
12. *REMOVE ALL MISCELLANEOUS CONDUITS, PIPES, ETC, THOUGH NOT SPECIFICALLY SHOWN ON PLAN, THAT ARE EITHER UNUSED OR WILL BECOME UNUSED DUE DEMOLITION ACTIVITIES, IN ORDER TO PROVIDE A "CLEAN" SPACE FOR THE OWNER.*
13. *PROTECT ALL EXISTING SURFACES AND EQUIPMENT DURING CONSTRUCTION. EXISTING ITEMS TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK, AS REQUIRED. ANY ITEMS DAMAGED OR MARRED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNERS SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.*
14. *PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, CONDUITS, PIPES, ETC.*
15. *REMOVE ALL ITEMS SHOWN IN WALLS TO BE DEMOLISHED. ALL ELECTRICAL CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARDS AND PROPERLY TERMINATED.*
16. *SAW CUT FLOOR FOR THE INSTALLATION OF NEW SANITARY PIPING. REFER TO PLUMBING PLANS SHOWING NEW WORK.*
17. *SAVE, CLEAN, AND RE-LAMP ALL LIGHT FIXTURES NOTED AS BEING RELOCATED. REFER TO NEW WORK PLANS AND LIGHT FIXTURE SCHEDULE FOR DESCRIPTIONS, QUANTITIES, AND LOCATIONS OF FIXTURES TO BE RE-USED.*

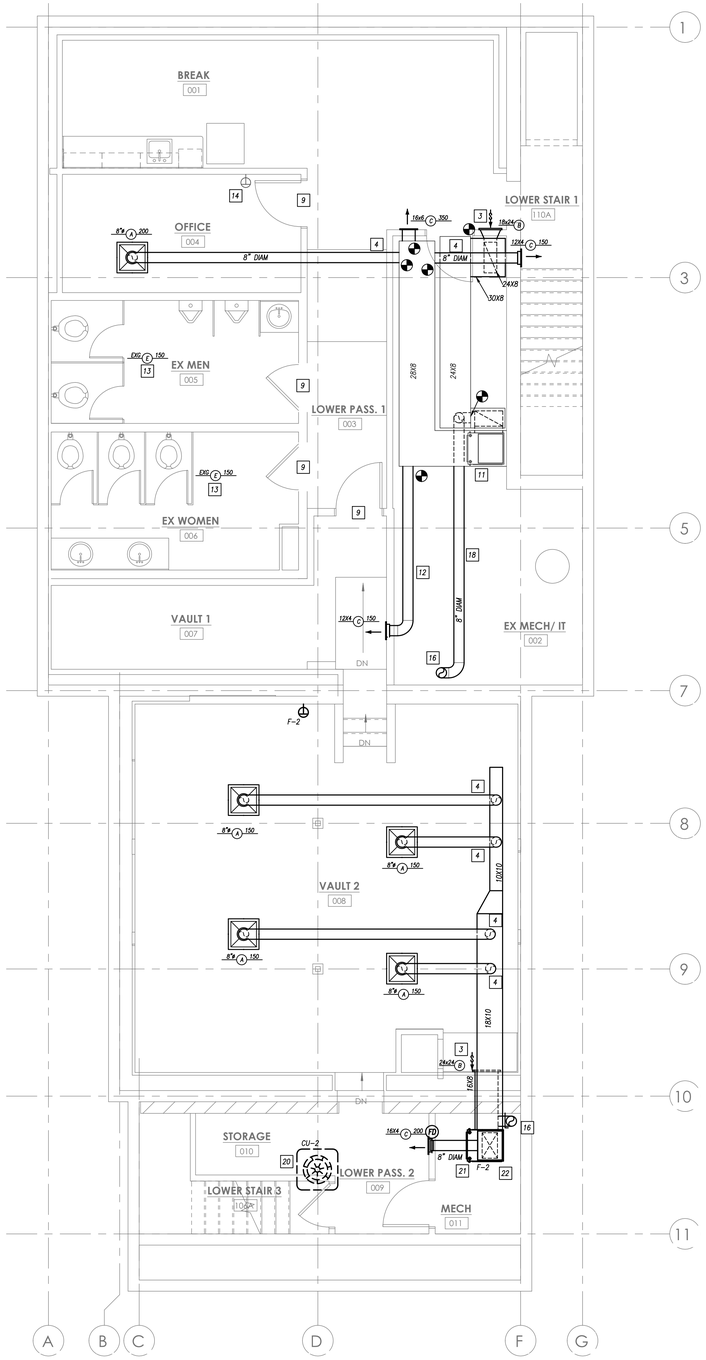
GENERAL NOTES

1. *SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.*
2. *IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.*
3. *THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIO



GROUND FLOOR PLAN - HVAC

1/4" = 1'-0"



LOWER LEVEL FLOOR PLAN - HVAC

1/4" = 1'-0"

GENERAL HVAC NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
3. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
4. ALL RUNOUTS TO TERMINAL BOXES SHALL BE ONE SIZE LARGER THAN BOX INLETS UNLESS NOTED OTHERWISE.
5. ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
6. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
7. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
8. PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC, FIRE, AND SMOKE DAMPERS.
9. FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.

HVAC PLAN KEYED NOTES

1. RETURN AIR TRANSFER GRILLE BTM 6" AFF.
2. RETURN AIR GRILLE AS HIGH ON WALL AS POSSIBLE.
3. RETURN AIR GRILLE AS LOW ON WALL AS POSSIBLE.
4. TAP MAIN DUCT AND ROUTE BRANCH DUCTWORK UP IN JOISTS. PROVIDE CONNECTIONS, OFFSETS, ETC. AS NEEDED.
5. EXTERIOR EXHAUST LOUVER. COORDINATE LOCATION AND COLOR WITH ARCHITECT.
6. OUTSIDE AIR DUCT TO RETURN AIR SIDE OF F1 AND F3. PROVIDE 10" TAP WITH BALANCING DAMPER TO F1 AND 8" TAP WITH BALANCING DAMPER TO F3. FIELD COORDINATE ROUTING AND PROVIDE REQUIRED OFFSETS FOR INSTALLATION.
7. ROUTE CONDENSATE PIPING TO JANITOR SINK.
8. EXTERIOR OUTSIDE AIR LOUVER. BALANCE PER OUTSIDE AIR CALCS/FURNACE SCHEDULE WHICH EVER IS HIGHER. COORDINATE LOCATION AND COLOR WITH ARCHITECT. MAINTAIN MINIMUM 10'-0" FROM ALL EXHAUST OPENINGS.
9. COORDINATE WITH GC TO UNDERCUT DOOR FOR 1" MINIMUM CLEARANCE FROM FINISHED FLOOR.
10. EXTERIOR OUTSIDE AIR LOUVER. BALANCE PER OUTSIDE AIR CALCS/FURNACE SCHEDULE WHICH EVER IS HIGHER. COORDINATE LOCATION AND COLOR WITH ARCHITECT. MAINTAIN MINIMUM 120" AFG TO BTM OF LOUVER. MAINTAIN MINIMUM 10'-0" FROM ALL EXHAUST OPENINGS.
11. EXISTING FURNACE AND ASSOCIATED CONDENSING UNIT TO REMAIN. CONTRACTOR TO FIELD TEST AND CHECK FOR PROPER OPERATION. REBALANCE AS REQUIRED FOR NEW CFM'S AS NOTED. REMOVE ALL BRANCH DUCTWORK NOT NEEDED AND PATCH DUCTWORK AS REQUIRED.
12. 8" DIAMETER SA DUCT. HOLD TIGHT TO WALL AND CEILING. FIELD COORDINATE ROUTING.
13. EXISTING SUPPLY AIR AND EXHAUST TO REMAIN THIS ROOM. FIELD VERIFY EXHAUST FAN IS OPERATIONAL. PROVIDE NEW SA GRILLE AND CONNECT TO EXISTING DUCTWORK. BALANCE SA GRILLE AS INDICATED.
14. EXISTING THERMOSTAT RELOCATED TO HERE.
15. RA DUCT ROUTED TO ABOVE ACCESSIBLE CEILING.
16. UP TO GROUND FLOOR.
17. DOWN TO LOWER LEVEL.
18. OUTSIDE AIR DUCT ROUTED TIGHT TO BTM OF STRUCTURE.
19. TRANSFER GRILLE LOCATED ABOVE TRANSACTION WINDOWS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL.
20. NEW CONDENSING UNIT LOCATED ON ROOF. FIELD COORDINATE EXACT LOCATION WITH EXISTING EQUIPMENT, ARCHITECT, AND STRUCTURAL.
21. ROUTE FURNACE COMBUSTION AIR AND EXHAUST TO EXTERIOR PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED OFFSETS AS NECESSARY FOR ROUTING. TERMINATE EXHAUST A MINIMUM 10'-0" FROM FURNACE OUTSIDE AIR INTAKE. COORDINATE ROUTING AND TERMINATION WITH ARCHITECT.
22. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN. PROVIDE PUMP AND OFFSETS AS REQUIRED.

NOTES:
THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO
COREY ROBERT BANDEL
E-91209
REGISTERED PROFESSIONAL ENGINEER
12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
18605 DETROIT AVE
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

ISSUE DATE: 12/20/2024

SHEET NAME:
FLOOR PLAN - MECHANICAL

SHEET NO.
M101

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5/14/2024 10:27:27 AM C:\Users\rketchum\Documents\Revit\24019 The Forest 3301 Boston St - CENTRAL_rketchum29625.rvt

MECHANICAL VENTILATION AIR REQUIREMENTS (Based on ANSI/ASHRAE 62.1-2022 Table - 6-1)

Zone/ System	Area Basis			Occupancy Basis					Required Ventilation Air(CFM) (C+F)/G	Design Ventilation CFM
	A Area (ft^2)	B (CFM/ ft^2)	C CFM (AXB)	Persons / 1000 FT^2	D # people	E CFM/ person	F CFM (DXE)	G Zone air Distribution Efectiveness		
F-1/CU-1										
WAITING 100	175	0.06	10.50	10	1.75	5	8.75	0.80	24	
CHECK-IN 101	220	0.06	13.20	10	2.20	5	11.00	0.80	30	
ENTRY 101A	166	0.06	9.96	-	-	-	-	0.80	12	
ADA TOILET 102	42	-	-	-	-	-	-	0.80	-	
FEATURED PRODUCTS 103	347	0.06	20.82	8	2.78	8	20.82	0.80	52	
QUICK PICK-UP 104	59	0.12	7.08	2	0.12	10	1.18	0.80	10	
JAN/MECH 105	48	0.06	2.88	2	0.10	5	0.48	0.80	4	
TRANSACTION 109	160	0.12	19.20	2	0.32	10	3.20	0.80	28	
									Total OA CFM	161
F-2/CU-2										
VAULT 2 008	598	0.06	35.88	5	2.99	5	14.95	0.80	64	
LOWER PASS 2 009	149	0.06	8.94	-	-	-	-	0.80	11	
STORAGE 010	37	0.06	2.22	2	0.07	5	0.37	0.80	3	
MECH 011	44	0.06	2.64	2	0.09	5	0.44	0.80	4	
									Total OA CFM	82
F-3/CU-3										
SALES 106	491	0.06	29.46	8	3.93	7.5	29.46	0.80	74	
STAIRS 107	94	0.06	5.64	-	-	-	-	0.80	7	
SALES 108	268	0.06	16.08	5	1.34	5	6.70	0.80	28	
									Total OA CFM	109
EXISTING F/CU										
BREAK 001	239	0.06	14.34	25	5.98	5	29.88	0.80	55	
EX MECH / IT 002	279	0.06	16.74	2	0.56	5	2.79	0.80	24	
LOWER PASS 1 003	48	0.06	2.88	-	-	-	-	0.80	4	
OFFICE 004	120	0.06	7.20	5	0.60	5	3.00	0.80	13	
EX MEN 005	129	-	-	-	-	-	-	0.80	-	
EX WOMEN 006	141	-	-	-	-	-	-	0.80	-	
VAULT 1 007	141	0.06	8.46	5	0.71	5	3.53	0.80	15	
LOWER STAIR 1 110A	60	0.06	3.60	-	-	-	-	0.80	5	
									Total OA CFM	116

LOUVER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	AIRFLOW (CFM)	WIDTH (IN)	HEIGHT (IN)	MAXIMUM S.P. DROP	FREE AREA (SF)	REMARKS
L1	*GREENHECK*	*ESD-202*	*440*	*18*	*24*	*0.03*	*0.95*	*1,2,3*
L2, L3	*GREENHECK*	*ESD-202*	*120*	*12*	*14*	*0.03*	*0.28*	*1,2,3*
-	-	-	-	-	-	-	-	----

REMARKS:
1. *PROVIDE EXTENDED SILL AND MOUNTING FRAME TO MATCH CONSTRUCTION. COORDINATE EXACT LOUVER SIZE TO INSTALL WITHIN WALL DIMENSIONS AND ARCHITECT.*
2. *PROVIDE COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.*
3. *PROVIDE WITH BIRDSCREEN.*

FURNACE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TOTAL CFM	OUTDOOR AIR CFM	EXT STATIC PRESSURE	MOTOR HP	HEAT INPUT MBH	HEAT OUTPUT MBH	HEAT STAGES	EVAPORATOR MODEL	COOLING CAPACITY	ENTERING AIR DRY/WET	LEAVING AIR DRY/WET	ELECTRICAL	MCA	MOCP	FILTER	NOTES
F-1	*DAIKIN*	*DM96VC1005DNA*	*1625*	*240*	*0.5"*	*1 HP/ECM*	*120*	*115.2*	*2*	*CAPEA6030D4*	*5 TON*	*80/67*	*57/55*	*120 V, 1 PH.*	*13.9*	*20*	*MERV 13*	*1, 2, 3, 4, 5*
F-2	*DAIKIN*	*DM96VC040JBNA*	*800*	*120*	*0.5"*	*1/2 HP/ECM*	*40*	*38.4*	*2*	*CAPEA2422B4*	*2 TON*	*80/67*	*57/55*	*120 V, 1 PH.*	*7.6*	*15*	*MERV 13*	*1, 2, 3, 4, 5*
F-3	*DAIKIN*	*DM96VC0804CNA*	*1350*	*200*	*0.5"*	*3/4 HP/ECM*	*80*	*76.8*	*2*	*CAPEA4830C4*	*4 TON*	*80/67*	*57/55*	*120 V, 1 PH.*	*10.9*	*15*	*MERV 13*	*1, 2, 3, 4, 5*

NOTES LEGEND
1. PROVIDE 5 YEAR PARTS WARRANTY FOR ENTIRE SYSTEM.
2. PROVIDE FACTORY INSTALLED HI/LOW PRESSURE SWITCHES.
3. PROVIDE 9-SPEED SUPPLY FAN MOTOR.
4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH WIFI.
5. PROVIDE STAINLESS STEEL HEAT EXCHANGER.

CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	NOMINAL SIZE	COOLING MBH	HEAT PUMP MBH	COOLING AMBIENT	HEATING AMBIENT	SUCTION	LIQUID	ELECTRICAL	MCA	MOCP	SEER2	HSPF2	DISCONNECT	NOTES
CU-1	*DAIKIN*	*DH6VSA6010A*	*5 TONS*	*53.5*	*34.8*	*95*	*17*	*7/8"*	*3/8"*	*208/240V, 1PH.*	*37.5*	*40*	*16*	*8.2*	*YES*	*1,2,3*
CU-2	*DAIKIN*	*DH6VSA2410A*	*2 TONS*	*23.2*	*14.6*	*95*	*17*	*3/4"*	*3/8"*	*208/240V, 1PH.*	*16.8*	*20*	*18*	*8.5*	*YES*	*1,2,3*
CU-3	*DAIKIN*	*DH6VSA4810A*	*4 TONS*	*45.5*	*29.8*	*95*	*17*	*7/8"*	*3/8"*	*208/240V, 1PH.*	*31.8*	*35*	*16.2*	*8.2*	*YES*	*1,2,3*

NOTES LEGEND
1. PROVIDE TXV VALVE, SERVICE VALVES, AND REFRIGERANT ACCUMULATOR AT SUCTION LINE
2. PROVIDE COIL HAIL GUARDS
3. VERIFY EXACT REFRIGERANT LINE SIZES WITH MANUFACTURER

GRILLE, REGISTER & DIFFUSER SCHEDULE

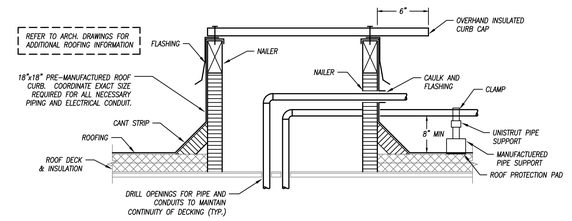
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	MATERIAL COLOR	NOTES
A	*PRICE*	*SMD-3P*	*SUPPLY*	*GRID/FLANGE*	*NO/YES*	*STEEL*	*WHITE*	*2,3*
B	*PRICE*	*535-0*	*RETURN*	*GRID/FLANGE*	*NO*	*STEEL*	*WHITE*	*1,3*
C	*PRICE*	*520-D*	*SUPPLY*	*FLANGE*	*YES*	*STEEL*	*WHITE*	*-*
E	*EXISTING*	*-*	*SUPPLY/RETURN*	*-*	*-*	*-*	*-*	*-*

NOTES LEGEND
1. PROVIDE WITHOUT SCREW HOLES WHERE USED IN A GRID CEILING
2. PAN TO FIT A 2'X2' GRID.
3. COORDINATE CEILING TYPE WITH ARCHITECTURAL. CORRESPONDING DAMPER REQUIREMENT TO MATCH CEILING TYPE.
4. COLOR TO BE SELECTED BY ARCHITECT.
5. LENGTH TO BE 2'-0". COORDINATE WIDTH TO MATCH CEILING PLANKS. COORDINATE WITH ARCHITECT.

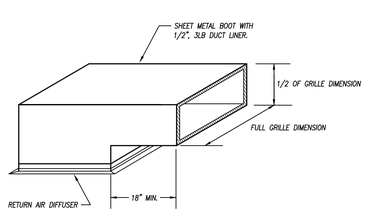
EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	SERVICE	CFM	STATIC PRESSURE	ELECTRICAL	DRIVE	DISCONNECT	DAMPER	NOTES
EF-1	*GREENHECK*	*SP-B90*	*CEILING*	*EXHAUST*	*75*	*1/4"*	*50 WATTS, 120V, 1 PH.*	*DIRECT*	*YES*	*BACKDRAFT*	*1,2*
EF-2	*GREENHECK*	*SP-B90*	*CEILING*	*EXHAUST*	*75*	*1/4"*	*50 WATTS, 120V, 1 PH.*	*DIRECT*	*YES*	*BACKDRAFT*	*3,4*

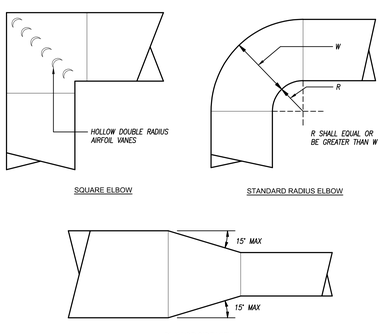
NOTES LEGEND
1. PROVIDE WITH WALL DISCHARGE WITH BUILT IN BIRDSCREEN AND BACK DRAFT DAMPER.
2. EXHAUST FAN TO RUN CONTINUOUS DURING OCCUPIED HOURS PER BUILDING SCHEDULE.
3. REFER THIS SHEET FOR ROOF PENETRATION DETAIL.
4. EXHAUST FAN TO RUN CONTINUOUS DURING OCCUPIED HOURS PER BUILDING SCHEDULE.



ROOF PIPING / CONDUIT - PENETRATION DETAIL
NOT TO SCALE



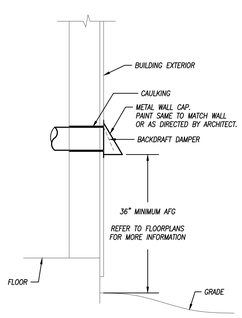
RETURN AIR BOOT
NOT TO SCALE



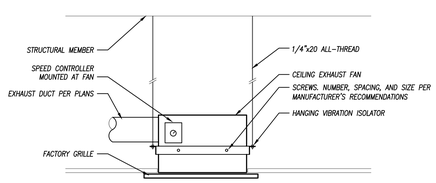
SQUARE ELBOW NOTES:
1. *FOR DUCT WIDTH LESS THAN 18" USE MINIMUM 26 GA VANES AT 2-1/8" O.C. FOR DUCT 18" AND WIDER, USE MINIMUM 24 GA VANES AT 3-1/4" O.C.*

RADIUS ELBOW NOTES:
1. *THE INTERIOR SURFACE OF ALL RADIUM ELBOWS SHALL BE MADE ROUND*
2. *RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS ONLY WHERE SPACE DOES NOT ALL FOR STANDARD. ALL SHORT SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA*

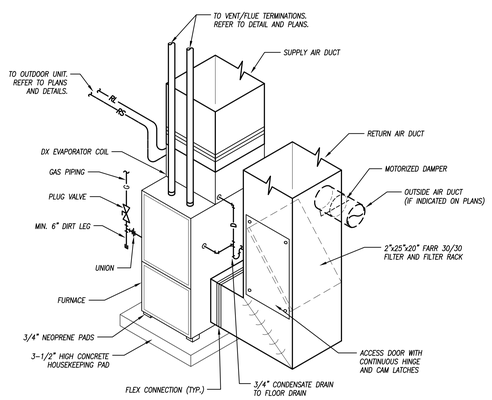
TYPICAL DUCT ELBOWS AND TRANSITION
NOT TO SCALE



EXHAUST/VENT CAP AT EXTERIOR WALL
NOT TO SCALE

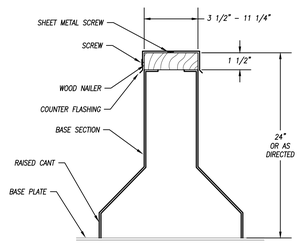


CABINET EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE

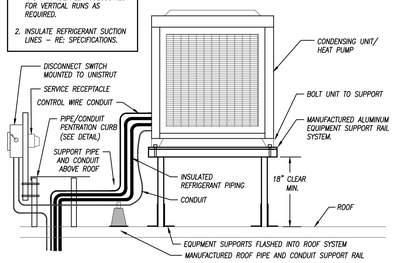


HIGH-EFFICIENCY FURNACE DETAIL
NOT TO SCALE

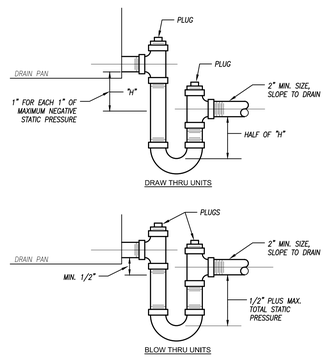
NOTES:
1. *CONDENSING UNIT MANUFACTURER TO SIZE ALL REFRIGERANT LINES AND PROVIDE ALL ACCESSORIES FOR VERTICAL RUNS AS REQUIRED.*
2. *INSULATE REFRIGERANT SUCTION LINES – RE: SPECIFICATIONS.*



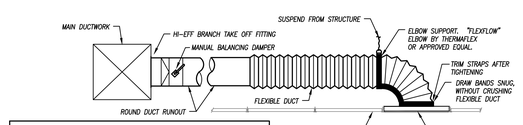
EQUIPMENT SUPPORT RAIL
NOT TO SCALE



CONDENSING UNIT DETAIL
NOT TO SCALE



CONDENSATE TRAP DETAIL
NOT TO SCALE



NOTES:
1. *RUN-OUT DUCT SIZE SHALL BE SAME AS SIZE SPECIFIED FOR DIFFUSER INLET. INCREASE RUN-OUT DUCT SIZE 2" WHEN LENGTH OF RUN-OUT DUCT EXCEEDS 20'-0" AND PROVIDE TRANSITION AT THE DIFFUSER.*
2. *MAXIMUM FLEXIBLE DUCTWORK LENGTH IS 6'-0" UNLESS OTHERWISE NOTED ON DRAWINGS.*
3. *FLEXIBLE DUCTWORK MUST BE FULLY EXTENDED AND NOT IN CONTACT WITH PIPES AND/OR CONDUITS.*
4. *INSTALL FLEXIBLE DUCTWORK SUPPORTS AT ALL ROUND NECK OUTLETS/INLETS UNLESS OTHERWISE NOTED ON DRAWINGS.*
5. *FLEXIBLE DUCTWORK IS NOT TO BE USED IN UNACCESSIBLE LOCATIONS. (ABOVE GYP. BOARD CEILINGS, ETC.)*

DUCT CONNECTION TO LAY-IN DIFFUSER DETAIL
NOT TO SCALE

NOTES:
THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO COREY ROBERT BANDEL E-91209 REGISTERED PROFESSIONAL ENGINEER
12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
18606 DETROIT AVE
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

ISSUE DATE: 12/20/2024

SHEET NAME: MECHANICAL SCHEDULES & DETAILS

SHEET NO. **M501**

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ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

- HOME RUN (2)#12 1/#12G UNO)
- INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR

LIGHTING

- GRD-MOUNTED TROFFER LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- SURFACE/RECESSED LIGHT FIXTURE
- WALL-MOUNTED LIGHT FIXTURE
- EXIT LIGHT
- BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)
- BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)
- WALL-MOUNTED COMBINATION EXIT LIGHT/ BATTERY-OPERATED EMERGENCY LIGHT
- LIGHT SWITCH – SINGLE POLE
- LIGHT SWITCH – 3-WAY
- LIGHT SWITCH – 4-WAY
- LIGHT SWITCH – DIMMER
- LIGHT SWITCH – 3-WAY DIMMER
- WALL-MOUNTED MOTION SWITCH
- CEILING-MOUNTED MOTION SWITCH
- TC — TIMECLOCK – REFER TO PLANS / DETAILS

EQUIPMENT

- DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
- TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
- SURFACE PANELBOARD

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING

POWER DEVICES

- DUPLEX RECEPTACLE.
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- GFI — SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
- QUADPLEX RECEPTACLE
- FB — FLOOR BOX
- J — JUNCTION BOX

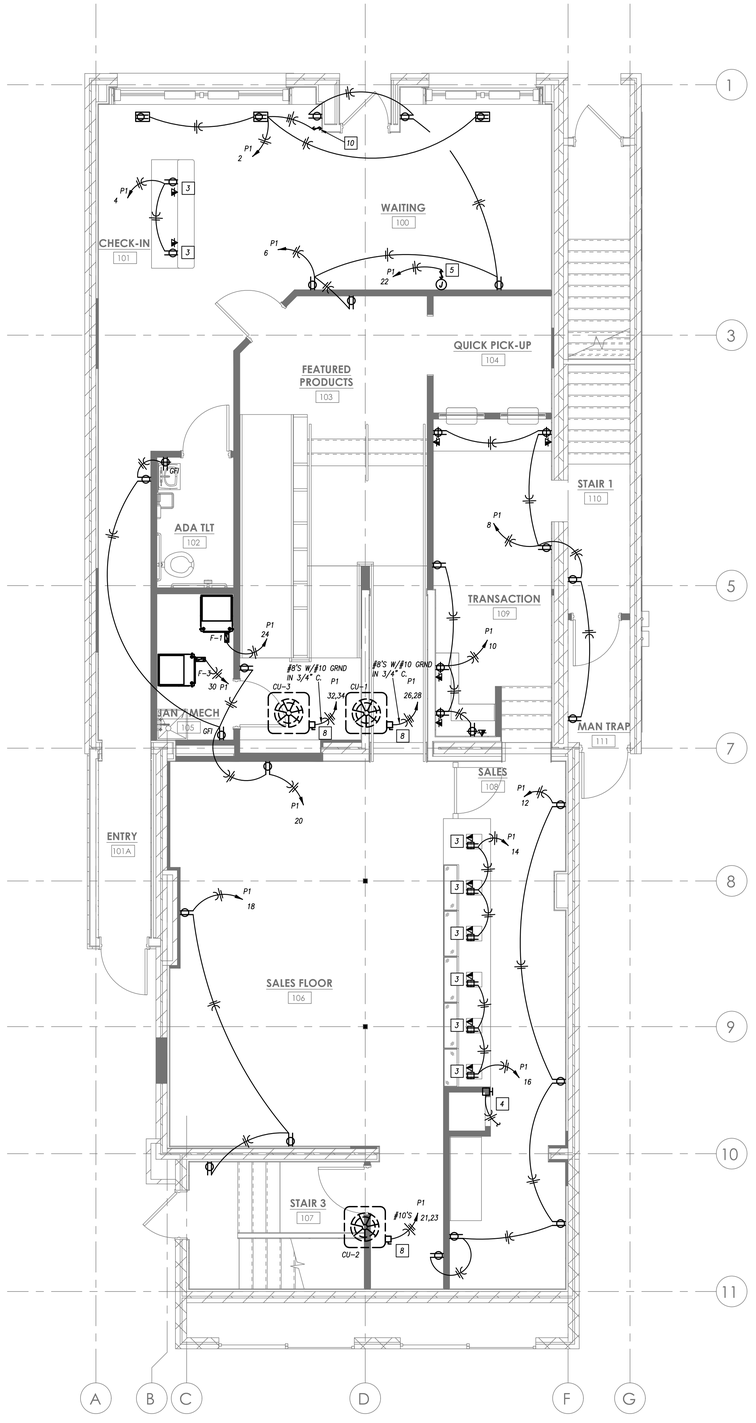
TELEPHONE/DATA

- LINE THRU DEVICE INDICATES ABOVE COUNTER
- TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)

ELECTRICAL SPECIFICATIONS

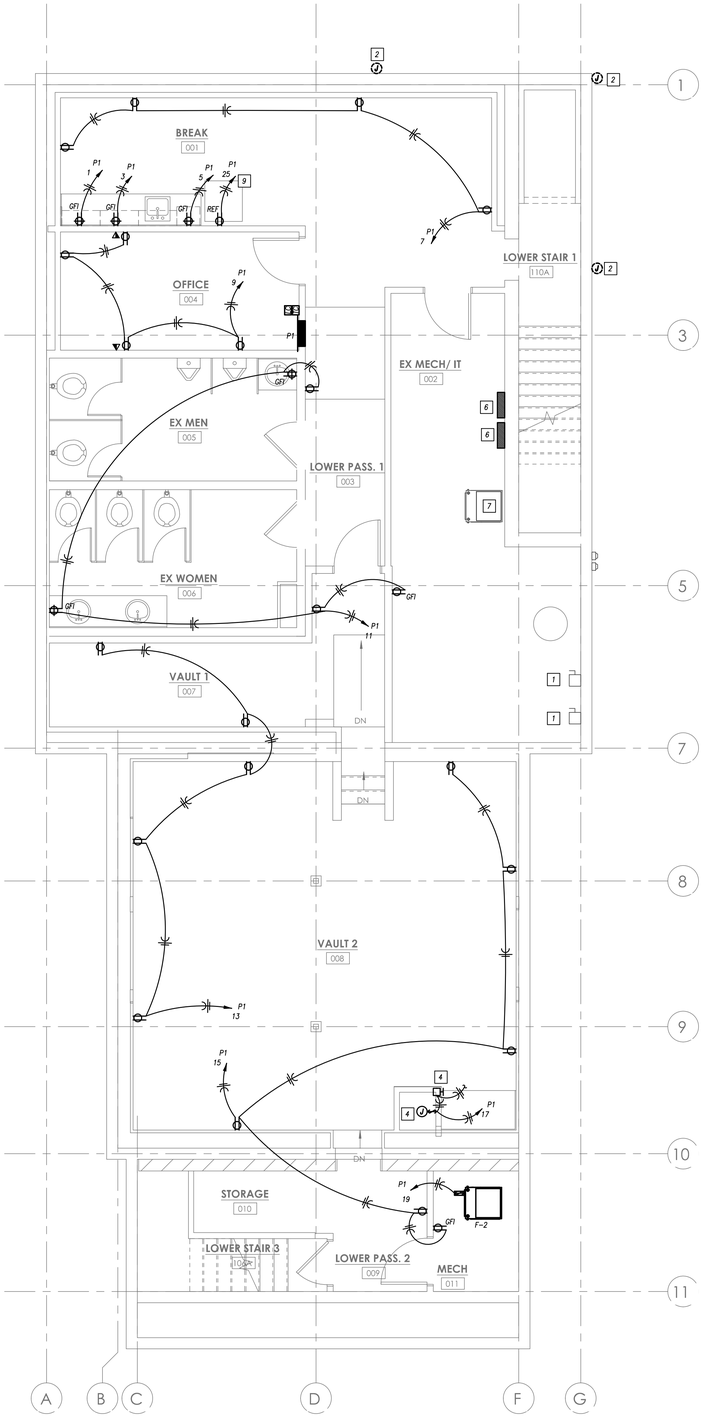
SECTION 260000 - ELECTRICAL

1. GENERAL ELECTRICAL REQUIREMENTS
   - A. REFER TO GENERAL MECHANICAL, ELECTRICAL & PLUMBING REQUIREMENTS.
   - B. WIRING OF MECHANICAL EQUIPMENT
     1) PROVIDE ALL RACEWAYS & POWER WIRING FOR ALL DIVISION 23 EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, INCLUDING, BUT NOT LIMITED TO, PUMPS, WATER HEATERS, & HVAC EQUIPMENT, & ALL LINE VOLTAGE CONTROL & INTERLOCK WIRING NOT PROVIDED UNDER DIVISION 23, CONNECT PER MANUFACTURERS' WIRING DIAGRAMS. COORDINATE WITH DIVISION 23 FOR DISCONNECTS FURNISHED W/ EQUIPMENT, & PROVIDE ALL DISCONNECT SWITCHES AS REQUIRED, AFTER INSTALLING WIRING, VERIFY THAT EACH MOTOR LOAD HAS CORRECT PHASE ROTATION.
     2) VERIFY ACTUAL "MAXIMUM OVERCURRENT PROTECTION" (MOCP) DEVICE RATINGS & "MINIMUM CIRCUIT AMPACITY" (MCA) CONDUCTOR SIZING FOR MECHANICAL EQUIPMENT FROM EQUIPMENT NAMEPLATE, BASE ELECTRICAL INSTALLATIONS ON ACTUAL REQUIRED AMPERAGES, WHICH MAY VARY SOMEWHAT FROM CONDUCTOR & EQUIPMENT SIZES SHOWN ON DRAWINGS; HOWEVER, IN NO CASE, REDUCE SIZE OF CONDUCTORS INDICATED ON DRAWINGS WITHOUT AUTHORIZATION FROM ENGINEER, PROVIDE PROPERLY SIZED ELECTRICAL WIRING & EQUIPMENT WITHOUT EXTRA COST TO OWNER, NOTIFY ENGINEER OF ALL CHANGES REQUIRED IN ELECTRICAL INSTALLATION DUE TO EQUIPMENT VARIANCES SO THAT EFFECTS ON FEEDERS, BRANCH CIRCUITS, PANELBOARDS, FUSES & CIRCUIT BREAKERS CAN BE CHECKED PRIOR TO PURCHASING & INSTALLATION, BE RESPONSIBLE FOR COORDINATING W/ DIVISION 23 TO VERIFY ACTUAL AMPACITIES & CORRECT SIZES OF ALL CONDUCTORS & OVERCURRENT PROTECTIVE DEVICES FOR ALL EQUIPMENT, & CORRECT OVERLOAD HEATERS FOR ALL MOTORS, WHEN STARTERS ARE PROVIDED UNDER DIVISION 26.
   - C. WIRING OF THERMOSTATS, TIME, & TEMPERATURE CONTROLS
     1) PROVIDE ALL RACEWAYS, POWER WIRING, & LINE-VOLTAGE CONTROL AND INTERLOCK WIRING NOT PROVIDED UNDER DIVISION 23, FOR ALL THERMOSTATS, TEMPERATURE CONTROL DEVICES, & CONTROLS, INCLUDING, BUT NOT LIMITED TO, NIGHT-STATS, WATER HEATER INTERLOCKS, TIME SWITCHES & OVERRIDE TIMERS, SEE MECHANICAL DRAWINGS FOR LOCATIONS & TEMPERATURE CONTROL DIAGRAMS, LOW-VOLTAGE CONDUCTORS FOR THERMOSTATS & TEMPERATURE CONTROL SYSTEM WHERE EXPOSED ABOVE FINISHED ACCESSIBLE CEILINGS, IF APPROVED & LISTED FOR THIS PURPOSE, BUT SHALL BE INSTALLED IN CONDUIT WITHIN WALLS & WHERE EXPOSED IN WORK AREAS.
2. CONDUIT & CONDUCTORS
   - A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 3/4" & NO CONDUCTORS SMALLER THAN #12 GA, UNLESS NOTED OTHERWISE.
   - B. CONDUCTORS #10 AND SMALLER SHALL BE SOLID.
   - C. IF NO CONDUCTOR SIZE IS INDICATED ON DRAWINGS FOR BRANCH CIRCUIT, PROVIDE CONDUCTORS & CONDUIT SIZED PER NFPA 70 & BASED ON INDICATED BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE (OCPD) RATING & NUMBER OF POLES.
   - D. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR:
     1) ALL CIRCUITS & FEEDERS GREATER THAN 30A.
     2) KITCHEN CIRCUITS.
     3) HOME RUNS.
   - E. MC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS & LIGHTING CIRCUITS, DO NOT DAISY CHAIN LIGHT FIXTURES, PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN 5-FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6 FEET IN UNSUPPORTED LENGTHS.
     1) DO NOT USE MC CABLE FOR FOLLOWING: HOMERUNS TO PANELBOARDS, WHERE EXPOSED TO VIEW OR DAMAGE, HAZARDOUS LOCATIONS, IN CONCRETE, BLOCK WALLS OR WET LOCATIONS, & WHEN DISALLOWED BY LOCAL AHJ OR LANDLORD.
   - F. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THHN-THWN-2 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES, NO RUBBER, PLASTIC FLEX TUBING ETC PERMITTED, LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN INDIVIDUAL FIXTURE MANUFACTURERS RECOMMENDED RATING.
   - G. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THHN-THWN-2 600 VOLT, 75 DEG C.
   - H. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS: DESIGNED FOR, PROPERLY SIZED FOR, & UL LISTED FOR SPECIFIC APPLICATION & CONDUCTORS INVOLVED, & INSTALLED IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.
   - I. WHERE WIRING IS INDICATED AS INSTALLED, BUT CONNECTION IS INDICATED "FUTURE" OR "BY OTHER DIVISION, TRADES, OR CONTRACTS", LEAVE MINIMUM 3-FOOT "PIGTAIL" AT BOX, TAPE ENDS OF CONDUCTORS, & COVER BOX.
   - J. NUMBER OF CONDUCTORS IN SPECIFIC RACEWAY "HOME RUN" IS INDICATED W/ CROSS LINES (TICK MARKS) ON EACH "CIRCUIT RUN" ON DRAWINGS. IN GENERAL, DIRECTION OF BRANCH CIRCUIT "HOME RUN" ROUTING IS INDICATED ON DRAWINGS, COMPLETE W/ CIRCUIT NUMBERS & PANELBOARD DESIGNATION. CONTINUE ALL SUCH "HOME RUN" WIRING TO DESIGNATED PANELBOARD, AS THOUGH "CIRCUIT RUNS" WERE INDICATED IN THEIR ENTIRETY.
   - K. WIRING SHALL HAVE INSULATION OF PROPER COLOR TO MATCH NEC COLOR CODE, IN LARGER SIZES, WHERE PROPERLY COLORED INSULATION IS NOT AVAILABLE, USE VINYL PLASTIC ELECTRICAL TAPE OF APPROPRIATE COLOR AROUND EACH CONDUCTOR AT ALL TERMINATION POINTS, JUNCTION & PULL BOXES.
3. GROUNDING
   - A. SUPPLEMENT GROUNDED NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT & OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL & PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.
   - B. SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.
   - C. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE, SWITCHGEAR BRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.
   - D. PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.
   - E. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.
   - F. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR.
   - G. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY NEC.
4. RACEWAY INSTALLATION
   - A. INSTALL ALL CONDUCTORS & CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR SPLICES, SPLICE OR TAP ONLY IN APPROVED BOXES & ENCLOSURES W/ APPROVED SOLDERLESS CONNECTORS, OR CRIMP CONNECTORS & TERMINAL BLOCKS FOR CONTROL WIRING, & KEEP TO MINIMUM REQUIRED, INSULATE ALL SPLICES, TAPS, & JOINTS AS REQUIRED BY CODES.
   - B. INSTALL ALL CIRCULAR RACEWAYS CONCEALED ABOVE SUSPENDED CEILINGS OR CONCEALED IN WALLS OR FLOORS WHEREVER POSSIBLE EXCEPT WHERE OTHERWISE INDICATED.
     1) ALL CONDUIT, JUNCTION BOXES, ETC, ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE, PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.
     2) SUPPORT ALL CONDUCTORS & CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA 70, BY INSTALLING CABLE SUPPORTS OR PLUG-TYPE CONDUIT RISER SUPPORTS, OR WIRE-MESH SAFETY GRIPS.
   - C. CONDUIT INSTALLED BELOW GRADE SHALL BE PVC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED (UV-RESISTANT) USE.
     1) SCHEDULE 40 PVC ACCEPTABLE FOR MOST UNDERGROUND INSTALLATIONS.
     2) SCHEDULE 80 PVC SHALL BE USED WHERE CONDUIT IS EXPOSED ABOVE GRADE OR OTHERWISE SUSCEPTIBLE TO DAMAGE, OR WHERE OTHERWISE REQUIRED BY CODE FOR MECHANICAL PROTECTION.
     3) FOR UNDERGROUND RUNS OF OVER 300' AND/OR MORE THAN (2) 90° ELBOWS, PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
   - D. METAL RACEWAY BELOW GRADE OR EXPOSED TO WEATHER OR OTHER HAZARDOUS CONDITIONS SHALL BE GRS.
     1) PROVIDE ANY GRS INSTALLED BELOW GRADE W/ CORROSION RESISTANT BONDED-PLASTIC OR APPROVED MASTIC COATING. THIS SHALL INCLUDE 90-DEGREE ELBOW BELOW GRADE & ENTIRE VERTICAL TRANSITION TO ABOVE GRADE.
   - E. PROVIDE INTERLOCKING SPACERS FOR MULTIPLE RUNS OF UG CONDUITS IN SAME TRENCH.
   - F. ALL OTHER RACEWAY MAY BE EMT WHERE APPROVED BY LOCAL CODE, USE COMPRESSION TYPE FITTINGS FOR EMT, W/ ALL FITTINGS UL LISTED FOR ENVIRONMENT IN WHICH THEY ARE USED.
   - G. USE FMC FOR FINAL CONNECTION TO EACH MOTOR & TRANSFORMER, & TO ANY DEVICE THAT WOULD OTHERWISE TRANSMIT MOTION, VIBRATION, OR NOISE. USE LFMC WHERE EXPOSED TO LIQUIDS, VAPORS OR SUNLIGHT.
     1) PROVIDE ALL FMC & LFMC W/ AN INSULATED BONDING CONDUCTOR.
   - H. INSTALL RACEWAYS PARALLEL & PERPENDICULAR TO BUILDING LINES.
   - I. INSTALL RACEWAYS TO REQUIREMENTS OF STRUCTURE & TO REQUIREMENTS OF ALL OTHER WORK ON PROJECT. INSTALL RACEWAY TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, REINFORCING STEEL, & OTHER IMMOVABLE OBSTACLES, INSTALL RACEWAYS SET IN FORMS FOR CONCRETE STRUCTURE IN SUCH MANNER THAT INSTALLATION WILL NOT AFFECT STRENGTH OF STRUCTURE.
   - J. INSTALL RACEWAYS CONTINUOUS BETWEEN CONNECTIONS TO OUTLETS, BOXES & CABINETS W/ MINIMUM POSSIBLE NUMBER OF BENDS & NOT MORE THAN EQUIVALENT OF FOUR 90-DEGREE BENDS BETWEEN CONNECTIONS, USE MANUFACTURED ELBOWS FOR ALL 45- & 90-DEGREE BENDS, UNLESS APPROVED BY ENGINEER IN ADVANCE. MAKE OTHER BENDS SMOOTH & EVEN & WITHOUT FLATTENING RACEWAY OR FLAKING GALVANIZING OR ENAMEL. RADII OF BENDS SHALL BE AS LONG AS POSSIBLE & NEVER SHORTER THAN CORRESPONDING TRADE ELBOW, USE LONG RADIUS ELBOWS WHERE NECESSARY, INDICATED, OR BOTH.
   - K. SECURELY FASTEN RACEWAYS IN PLACE W/ APPROVED STRAPS, HANGERS & STEEL SUPPORTS AS REQUIRED. ATTACH RACEWAY SUPPORTS TO BUILDING STRUCTURE. HANG CABLE RACEWAYS FOR FEEDERS W/ MALLEABLE SPLIT RING HANGERS W/ ROD & TURNBUCKLE SUSPENSION FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE.
   - L. CLAMP GROUPS OF HORIZONTAL FEEDER RACEWAYS TO STEEL CHANNELS THAT ARE SUSPENDED FROM INSERTS SPACED NOT OVER 10 FEET APART IN CONSTRUCTION ABOVE. SECURELY CLAMP VERTICAL FEEDER RACEWAYS TO STRUCTURAL STEEL MEMBERS ATTACHED TO STRUCTURE. INSTALL CABLE CLAMPS FOR SUPPORT OF VERTICAL FEEDERS WHERE REQUIRED. ADD RACEWAY SUPPORTS WITHIN 12 INCHES OF ALL BENDS, ON BOTH SIDES OF BENDS, DO NOT SUPPORT RACEWAYS FROM SUSPENDED CEILING COMPONENTS.
   - M. REAM RACEWAY ENDS, THOROUGHLY CLEAN RACEWAYS BEFORE INSTALLATION, & KEEP CLEAN AFTER INSTALLATION, PLUG OR COVER OPENINGS & BOXES AS REQUIRED TO KEEP RACEWAYS CLEAN DURING CONSTRUCTION & FISH ALL RACEWAYS CLEAR OF OBSTRUCTIONS BEFORE PULLING CONDUCTORS WIRES, PROVIDE RACEWAYS OF AMPLE SIZE FOR PULLING OF WIRE & NOT SMALLER THAN CODE REQUIREMENTS & NOT LESS THAN 3/4", UNLESS INDICATED OTHERWISE ON DRAWINGS.
   - N. PROTECT ALL RACEWAY INSTALLATIONS AGAINST DAMAGE DURING CONSTRUCTION. REPAIR ALL RACEWAYS DAMAGED OR MOVED OUT OF LINE AFTER ROUGHING-IN TO MEET ENGINEER'S APPROVAL WITHOUT ADDITIONAL COST TO OWNER.
   - O. ALIGN & INSTALL TRUE & PLUMB ALL RACEWAY TERMINATIONS AT PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL EQUIPMENT & JUNCTION BOXES.
   - P. INSTALL APPROVED EXPANSION/DEFLECTION FITTINGS WHERE RACEWAYS PASS THROUGH (IF EMBEDDED) OR ACROSS (IF EXPOSED) EXPANSION JOINTS.
   - Q. INSTALL PULL WIRE IN EACH EMPTY RACEWAY THAT IS LEFT FOR INSTALLATION OF CONDUCTORS OR CABLES UNDER OTHER DIVISIONS OR CONTRACTS, USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE. LEAVE MIN. 24" SLACK AT EACH END.
   - R. MAKE ALL JOINTS & CONNECTIONS IN MANNER THAT WILL ENSURE MECHANICAL STRENGTH & ELECTRICAL CONTINUITY.
   - S. EFFECTIVELY SEAL RACEWAYS, BY INSTALLING CONDUIT FITTING AT BOUNDARY OF TWO SPACES, & FILLING IT W/ AN APPROVED PLIABLE MATERIAL, AFTER CONDUCTORS OR CABLES HAVE BEEN INSTALLED & TESTED, WHENEVER RACEWAYS PASS FROM NON-COOLED TO COOLED SPACES OR TRANSITION FROM OUTSIDE FACILITY OR ENCLOSURE TO INSIDE, WHETHER BURIED OR EXPOSED.
5. BUSHINGS & LOCKNUTS
   - A. RIGIDLY TERMINATE CONDUITS ENTERING SHEET METAL ENCLOSURES TO ENCLOSURE W/ BUSHING & LOCKNUT ON INSIDE & LOCKNUT OR AN APPROVED HUB ON OUTSIDE. CONDUIT SHALL ENTER ENCLOSURE SQUARELY.
   - B. PROVIDE BUSHINGS & LOCKNUTS MADE OF GALVANIZED MALLEABLE IRON W/ SHARP, CLEAN-CUT THREADS. WHERE EMT ENTERS BOX, PROVIDE APPROVED EMT COMPRESSION CONNECTORS.
   - C. USE INSULATED, GROUNDING, OR COMBINATION, BUSHINGS WHEREVER CONNECTION IS SUBJECT TO VIBRATION OR MOISTURE WHEN REQUIRED BY NFPA 70, OR BOTH.
6. JUNCTION & OUTLET BOXES
   - A. ALL BOXES INCLUDING LIGHT FIXTURE, SWITCH, RECEPTACLE, & SIMILAR OUTLET BOXES: NATIONAL ELECTRICAL, APPLETON, STEEL CITY, RACO, OR APPROVED EQUAL, GALVANIZED STEEL KNOCKOUT BOXES, SUITABLE IN DESIGN TO PURPOSE THEY SERVE & SPACE THEY OCCUPY. SIZE AS REQUIRED FOR SPECIFIC FUNCTION OR AS REQUIRED BY NFPA 70, WHICHEVER IS LARGER.
     1) LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE.
   - B. SET ALL OUTLET BOXES IN WALLS, COLUMNS, FLOORS, OR CEILINGS SO THEY ARE FLUSH W/ FINISHED SURFACE, ACCURATELY SET, & RIGIDLY SECURED IN POSITION, PROVIDE PLASTER RINGS, EXTENSION RINGS &/OR MASONRY RINGS AS REQ'D FOR FLUSH MOUNTING. PROVIDE APPROVED CAST OUTLET BOXES, W/ HUBS & WEATHERPROOF COVERS, IN ALL AREAS SUBJECT TO DAMP, WET, OR HARSH CONDITIONS.
   - C. COORDINATE LOCATIONS OF OUTLET BOXES, OUTLETS ARE ONLY APPROX LOCATED ON SMALL SCALE DRAWINGS. USE GREAT CARE IN ACTUAL LOCATION BY CONSULTING VARIOUS LARGE SCALE DETAILED DRAWINGS USED BY OTHER DIVISION TRADES, & BY SECURING DEFINITE LOCATIONS FROM ARCHITECT.
   - D. ALL OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" AFF FLOOR UNLESS NOTED OTHERWISE ON PLANS, REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS & CABINETRY COORDINATION.
7. ELECTRICAL IDENTIFICATION
   - A. MANUFACTURED LABELS FOR EACH PANELBOARD. TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS. WHERE ELECTRICAL EQUIPMENT IS INSTALLED AS SERVICE ENTRANCE EQUIPMENT, CONTRACTOR SHALL FURNISH & INSTALL NAMEPLATE LISTING THE FOLLOWING: EQUIP SHORT-CIRCUIT CURRENT RATING in AMPS (RMS SYM), AS INDICATED ON THE DRAWINGS, WHETHER OR NOT EQUIPMENT IS FULLY OR SERIES-RATED, AVAILABLE FAULT CURRENT IN AMPS, CONTRACTOR SHALL PERFORM AVAILABLE FAULT STUDY, CALCULATION TO OBTAIN AVAILABLE FAULT AT SERVICE EQUIPMENT, DATE FAULT CURRENT CALCULATIONS WERE PERFORMED.
   - B. PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CKT #,
   - C. MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.
   - D. BRANCH CIRCUITS - IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL & WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING, FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #, BOX COVERS ABOVE LAY-IN CEILINGS NEATLY MARKED W/ INDELIBLE MARKER.
   - E. FIRE ALARM - NAMEPLATE ON EACH FIRE ALARM TERMINAL CABINET. LABEL ALL WIRING.
8. DIGITAL LIGHTING CONTROLS
   - A. PROVIDE DLM SYSTEMS CONSISTING OF LIGHTING CONTROL PANELS, ROOM CONTROLLERS, MOTION SENSORS, DAYLIGHT SENSORS, & OTHER CONTROLS AS NECESSARY TO PROVIDE FULL LIGHTING SWITCHING & DIMMING CONTROL INDICATED ON THE DRAWINGS. COORDINATE ALL INTERFACES, DIMMING STYLES ETC WITH LIGHTING FIXTURES AND OTHER LOADS CONTROLLED.
   - B. PROVIDE ALL INTERCONNECTING WIRING, CONTROLS, PROGRAMMING & OWNER TRAINING FOR THE SYSTEM(S).
   - C. PROVIDE SYSTEMS BY: COOPER, HUBBELL, LEVITON, PHILLIPS, SENSOR SWITCH, WATT STOPPER, LUTRON, NLIGHT.
   - D. EXECUTION:
     1) CALIBRATE ALL SENSOR TIME DELAYS & SENSITIVITY FOR PROPER DETECTION OF OCCUPANTS & ENERGY SAVINGS, ADJUST TIME DELAYS.
     2) PROVIDE DOCUMENTATION OF ROOM BY ROOM SYSTEM CONFIGURATION INCLUDING: SENSOR PARAMETERS, TIME DELAYS, SENSITIVITIES, & DAYLIGHTING SETPOINTS, SEQUENCE OF OPERATION, LOAD PARAMETERS.
     3) POST START-UP TUNING - 30 DAYS AFTER OCCUPANCY CONTRACTOR SHALL ADJUST SENSORS TO MEET THE OWNER'S REQUIREMENTS. PROVIDE A DETAILED REPORT TO THE ARCHITECT / OWNER OF POST START-UP ACTIVITY.
9. PANELBOARDS
   - A. BRANCH CIRCUIT 208/240V PANELS SHALL BE CAPACITY SHOWN W/ TIN PLATED COPPER BUSSING & BRACED FOR MINIMUM OF 10,000A AIC OR AS OTHERWISE NOTED OR REQUIRED (SERIES RATED ACCEPTABLE). BOLT ON CIRCUIT BREAKERS, 480V PANELS SAME EXCEPT 14,000A AIC MIN, OR AS OTHERWISE NOTED, MINIMUM 20" WIDE W/ GALV STEEL ENCLOSURE W/ HINGED DOOR & KEYED LOCK. COORD TRIM W/ MOUNTING LOCATION, TYPEWRITTEN CARD DIRECTORY.
   - B. EQUIVALENT BY SQUARE D, SIEMENS, CUTLER HAMMER, OR GE.
   - C. CIRCUIT BREAKERS SHALL PROVIDE AFCI AND/OR GFCI PROTECTION WHERE REQUIRED BY CODE.
10. WIRING DEVICES
    - A. COLOR OF DEVICES AS DIRECTED BY ARCHITECT.
    - B. PROVIDE CLEAR LABEL WITH BLACK TEXT ON EACH COVERPLATE FOR ASSOCIATED CIRCUIT #.
    - C. CONVENIENCE OUTLETS:
      1) SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES, OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFCI RATED DEVICES WHERE INDICATED & AS REQ'D PER CODE.
      2) EQUIVALENT DEVICES BY COOPER/EATON, HUBBELL, LEVITON, PASS & SEYMOUR/LEGRAND
    - D. SWITCHES:
      1) LIGHT SWITCHES - SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.
      2) WALL MOTION SWITCHES - SPEC GRADE, PIR, OVERRIDE.
      3) CEILING MOTION SWITCHES - SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS & RELAYS.
      4) WALL MOTION SWITCHES (BATHROOM) - DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY,
      5) DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON-OFF SWITCHES, WITH AUDIBLE FREQUENCY AND EMI/RFI SUPPRESSION FILTERS, CONTINUOUSLY ADJUSTABLE SLIDER; WITH SINGLE-POLE OR THREE-WAY SWITCHING. COMPLY WITH UL 1472, 600W OR 1200W AS REQUIRED BY LOAD.
         INCANDESCENT LAMP DIMMERS: 120 V; CONTROL SHALL FOLLOW SQUARE-LAW DIMMING CURVE. ON-OFF SWITCH POSITIONS SHALL BYPASS DIMMER MODULE.
         LED DIMMERS: MODULAR; COMPATIBLE WITH DIMMING DRIVERS IN FIXTURE(S); IF OTHER THAN 0-10V DIMMING IS PROVIDED, VERIFY DIMMER IS COMPATIBLE WITH DRIVER FOR FULL RANGE OF DIMMING (100-10%).
      6) EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSTOPPER, LITHONIA, SENSOR SWITCH.
    - E. WEATHERPROOF COVER PLATES:
      1) PROVIDE GFCI RECEPTACLES FOR WEATHERPROOF RECEPTACLES.
      2) FOR WET LOCATIONS: IN-USE NEMA 3R, UL-LABELED PLATES DIE CAST METAL AND LOCKABLE.
      3) FOR DAMP LOCATIONS: UL-LISTED FOR WET LOCATIONS W/ COVER(S) CLOSED; DIE-CAST ALUMINUM OR TYPE 302 SS; SINGLE-COVER FOR SWITCHES & VERTICALLY MOUNTED RECEPTACLES; DOUBLE-COVER FOR HORIZONTALLY MOUNTED RECEPTACLES; SELF-CLOSING COVERS.
11. DISCONNECT (SAFETY) SWITCHES
    - A. DISCONNECT (SAFETY) SWITCHES: SQUARE D, SIEMENS, EATON, OR GE FUSED OR NON-FUSED (AS INDICATED ON DRAWINGS OR REQUIRED) NEMA KS1, HEAVY DUTY, EXTERNALLY OPERATED, VISIBLE-BLADE SAFETY SWITCHES. NEMA ENCLOSURE TYPE INDICATED ON DRAWINGS OR SUITABLE FOR ENVIRONMENT IN WHICH INSTALLED, BASED ON FUSIBLE SWITCH & FUSE SIZES INDICATED, INCLUDE CLASS R, J, OR L FUSE PROVISIONS AS APPLICABLE.
    - B. WHERE INDICATED, PROVIDE FUSIBLE SWITCHES PERMANENTLY LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, W/ INTEGRAL & SEPARATE NEUTRAL & GROUND ASSEMBLIES, SUITABLE FOR SIZES OF CONDUCTORS INDICATED, DO NOT DOUBLE-LUG ANY TERMINATIONS NOT SPECIFICALLY LISTED AS SUITABLE FOR MORE THAN ONE CONDUCTOR.
    - C. PROVIDE SWITCHES WHERE NOT FURNISHED W/ STARTING EQUIPMENT, AT ALL OTHER POINTS REQUIRED BY NFPA 70, & WHERE INDICATED ON DRAWINGS.
    - D. PROVIDE PRINTED LABEL FOR EACH DISCONNECT AS TO LOAD SERVED.
12. LUMINAIRES, LAMPS & BALLASTS
    - A. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.
    - B. EQUIVALENT LUMINAIRES BY HUBBELL, INFINITY, LITHONIA, WILLIAMS, EATON [COOPER].
    - C. FLUORESCENT FIXTURES:
      1) LAMPS SHALL BE TYPE RECOMMENDED BY FIXTURE MANUF, LAMP NONE ABOVE MANUF RECOMMENDED MAX WATTAGE, COLOR TEMPERATURE SHALL BE COORDINATED THROUGHOUT PROJECT. WITH GENERALLY 4100K INTERIOR LAMPS AND MIN. 85 CRI, EQUIVALENT LAMPS BY G.E., VENTURE, PHILLIPS OR SYLVANIA,
      2) BALLASTS - FLUORESCENT - ELECTRONIC, <20%THD, EQUIVALENT BY ADVANCE, G.E., MOTOROLA, OR MAGNETEK.
    - D. LED FIXTURES:
      1) LAMPS & MODULES: PHILIPS, GENERAL ELECTRIC, OSRAM/SYLVANIA, CREE, NICHIA.
      2) LED COMPONENTS, LAMPS, DRIVERS, AND FIXTURES SHALL COMPLY WITH: PCC 47 CFR PART 15; UL 8750; ANSI/NEMA STANDARDS C78.377, NEMA SSL-1, C82.77, IESNA STANDARDS TM-16-05, RP-16, LM-79, LM-80 AND TM-21.
      3) DRIVERS SHALL BE INTEGRAL TO THE FIXTURE UNLESS OTHERWISE SHOWN OR SPECIFIED. COORDINATE DIMMING DRIVERS WITH ANY DIMMING DLM OR OTHER SYSTEMS.
    - E. EMERGENCY BALLASTS/DRIVERS/BATTERIES/INVERTERS - SHALL BE BODINE; IOTA; COORDINATE VOLTAGES AND OUTPUTS FOR MIN. 90 MINUTE OPERATION WITH FIXTURES SCHEDULED AND CONTROLS INDICATED AND PROVIDED.
    - F. EXECUTION:
      1) PROVIDE LIGHTING FIXTURES W/ LAMPS & ACCESSORIES REQ'D FOR HANGING. COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & G/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C, SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.
      2) FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL BE PROVIDED & INSTALLED W/ FIRE RATED ENCLOSURES TO MAINTAIN CEILING INTEGRITY.
      3) POLES & SUPPORT COMPONENTS: COMPLY W/ AASHTO LTS-4, PROVIDE STEEL POLES IN COLOR AS SPECIFIED OR SELECTED BY ARCHITECT, PROVIDE BOLT COVERS, PROVIDE CONCRETE BASE FOR POLE & GROUND ROD.
13. ADJUSTING, ALIGNING & TESTING
    - A. ADJUST, ALIGN, & TEST ALL ELECTRICAL EQUIPMENT ON THIS PROJECT PROVIDED UNDER THIS DIVISION & ALL EL



GROUND FLOOR PLAN - POWER

1/4" = 1'-0"



LOWER LEVEL FLOOR PLAN - POWER

1/4" = 1'-0"

GENERAL POWER NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER-RESISTANT, HOSPITAL-GRADE, AND TAMPER-RESISTANT RECEPTACLES.
4. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
5. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

POWER PLAN KEYED NOTES

1. EXISTING DISCONNECTS TO REMAIN.
2. EXISTING JUNCTION BOX AND CONDUIT FOR EXTERIOR SIGN TO BE REMOVED.
3. COORDINATE MOUNTING OF ELECTRICAL AND COMMUNICATION DEVICES WITH ARCHITECT/OWNER/CABINET CONTRACTOR.
4. POWER AND CONTROLS FOR DUMBWAITER. COORDINATE REQUIREMENTS WITH MANUFACTURER. CONTRACTOR TO INSTALL OPERATORS, LIMIT SWITCHES, ETC AS REQUIRED FOR CORRECT OPERATION.
5. CUSTOM LOGO LIGHT. COORDINATE CONTROL WITH OWNER/ARCHITECT AND MANUFACTURER. REFER ARCHITECTURAL PLANS FOR LOCATION.
6. EXISTING ELECTRICAL EQUIPMENT AND UNUSED CIRCUITS TO BE REMOVED. EXTEND EXISTING CIRCUITS TO REMAIN TO NEW PANELBOARD.
7. EXISTING FURNACE AND ASSOCIATED CONDENSING UNIT ELECTRICAL CONNECTION TO REMAIN. EXTEND EXISTING CIRCUITRY TO NEW PANELBOARD.
8. NEW CU ON ROOF. DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT LOCATION AND DETAILS WITH MECHANICAL CONTRACTOR.
9. PROVIDE GFCI BREAKER.
10. COORDINATE LOCATION OF SWITCH WITH OWNER/ARCHITECT.

NOTES:
THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO
COREY ROBERT BANDEL
E-91209
REGISTERED PROFESSIONAL ENGINEER
12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
18606 DETROIT AVE
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

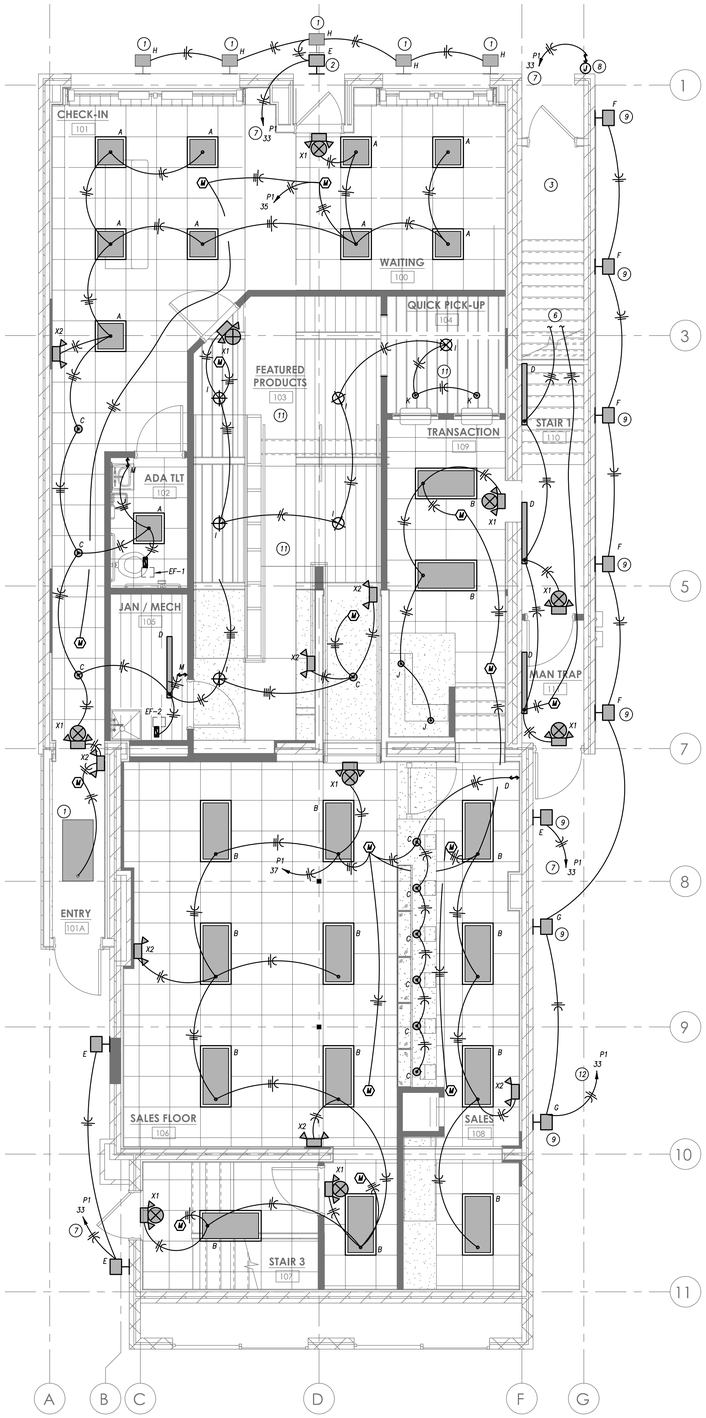
VERVE PROJECT NO.: 24071
ISSUE DATE: 12/20/2024

SHEET NAME: FLOOR PLAN - POWER

SHEET NO. **E101**

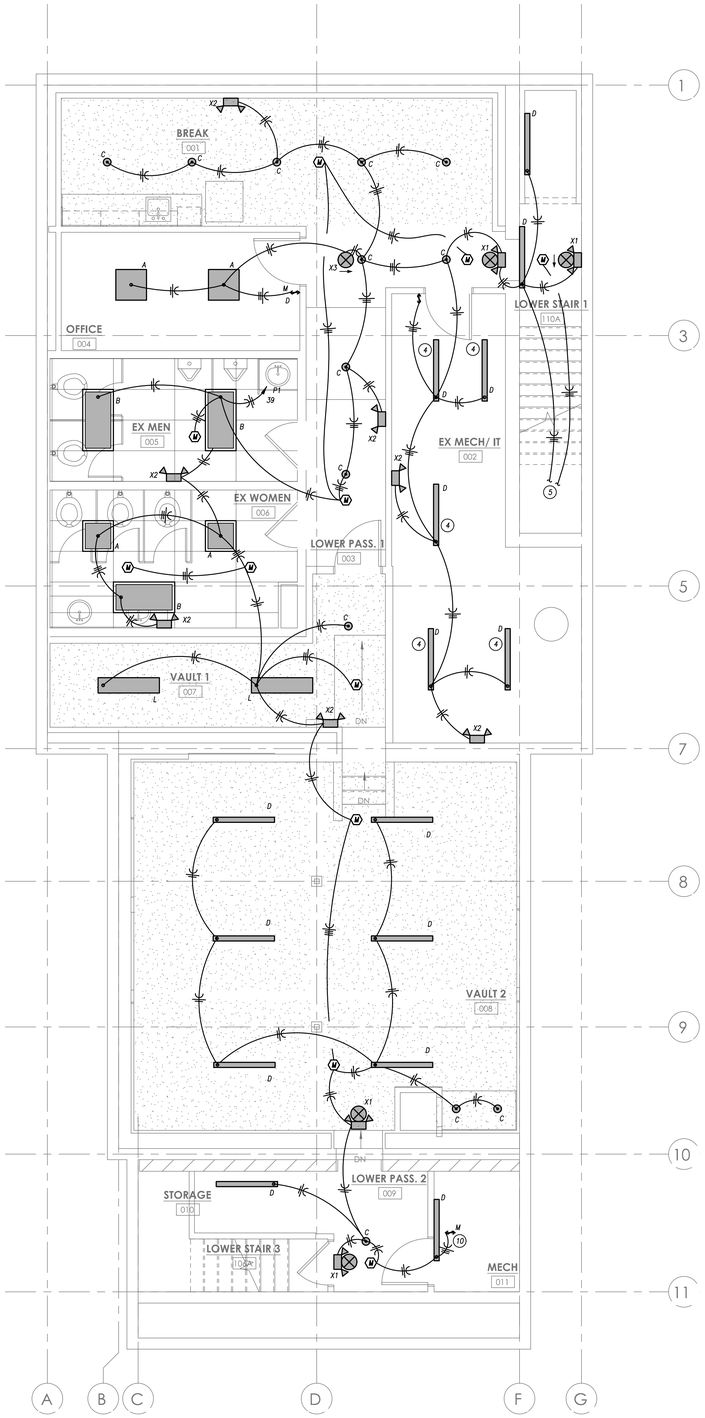
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GROUND FLOOR PLAN - LIGHTING

1/4" = 1'-0"



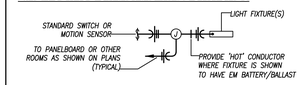
LOWER LEVEL FLOOR PLAN - LIGHTING

1/4" = 1'-0"

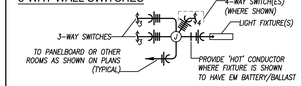
TYPICAL WIRING OF CONTROLS AND LIGHT FIXTURES

THE WIRING AND/OR TIC MARKS SHOWN BELOW ARE NOT SHOWN ON PLANS FOR CLARITY. PROVIDE WIRING FROM JUNCTION BOX(ES) TO SWITCHES/CONTROLLERS AND LIGHTS AS SHOWN BELOW FOR EACH ROOM/AREA.

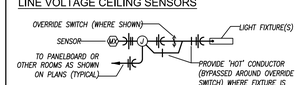
LINE VOLTAGE STANDARD WALL SWITCHES



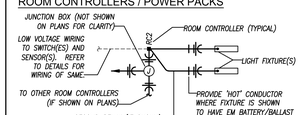
3-WAY WALL SWITCHES



LINE VOLTAGE CEILING SENSORS



ROOM CONTROLLERS / POWER PACKS



GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

2. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
   - 2.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DAISY-CHAINING OF FIXTURES IS NOT ALLOWED.
   - 2.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
   - 2.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
   - 2.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LIGHTING PLAN KEYED NOTES

1. EXISTING LIGHTING TO REMAIN. RE-CIRCUIT AS INDICATED.
2. NEW LIGHT IN EXISTING LOCATION ABOVE ENTRANCE.
3. EXISTING LIGHTING AND CONTROLS TO REMAIN THIS ROOM, UNO.
4. COORDINATE NEW LIGHTING LOCATIONS WITH EXISTING DUCTWORK, PIPING, ETC. CONTRACTOR TO FIELD VERIFY EXACT LOCATION FOR MOUNTING.
5. REFER GROUND LEVEL FLOOR PLAN FOR CONTINUATION.
6. REFER LOWER LEVEL FLOOR PLAN FOR CONTINUATION.
7. ROUTE THRU EXTERIOR LIGHTING CONTROLS. REFER ELECTRICAL SERIES SHEETS FOR MORE DETAILS. COORDINATE CONTROL WITH OWNER.
8. WEATHERPROOF JBOX AND DISCONNECT FOR EXTERIOR SIGN MOUNTED NEAR ROOF. REFER ARCHITECTURAL PLANS FOR EXACT LOCATION.
9. REFER ARCHITECTURAL PLANS FOR EXACT LOCATION AND HEIGHT.
10. WALL MOTION SENSOR LOCATED ON WALL, SHOWN HERE FOR CLARITY.
11. COORDINATE EXPOSED CONDUIT ROUTING WITH ARCHITECT, TYPICAL THIS ROOM.
12. ROUTE THRU EXTERIOR LIGHTING CONTROLS. REFER ELECTRICAL SERIES SHEETS FOR MORE DETAILS. COORDINATE CONTROL AND LOCATION OF DIMMER WITH OWNER.

NOTES:
THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO
COREY ROBERT BANDEL
E-91209
REGISTERED PROFESSIONAL ENGINEER
12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
18606 DETROIT AVE
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

ISSUE DATE: 12/20/2024

SHEET NAME: FLOOR PLAN - LIGHTING

SHEET NO. **E201**

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LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	FINISH	WATTS/LUMENS	CRI/CCT	NOTES
A	WILLIAMS	BP-22-LS/8CS-DIM-UNV	RECESSED	WHITE	40W/4200 LUMENS	80/3500K	1
B	WILLIAMS	BP-24-LS/8CS-DIM-UNV	RECESSED	WHITE	48W/5700 LUMENS	80/3500K	1
C	JUNO	WF6-SWW5-90CRI-MW-DIM	RECESSED	WHITE	13W/990 LUMENS	80/3500K	1
D	WILLIAMS	FS-4-LS-8-CS-DIM-UNV	SURFACE/SUSPENDED	WHITE	33W/4800 LUMENS	80/3500K	1
E	COOPER	XTOR6B-X-X-CBP	SURFACE	BY ARCHITECT	58W/6129 LUMENS	70/4000K	2,3
F	LIGMAN	UMV-30052-2X20W-EW-EW-W40-X-120/277V-DIM-SCBT	SURFACE	BY ARCHITECT	40W/3000 LUMENS	70/4000K	2,3,7
G	LIGMAN	UMV-30052-1X20W-EW-EW-W40-X-120/277V-DIM-SCBT	SURFACE	BY ARCHITECT	20W/1500 LUMENS	70/4000K	2,3,7,8
H	EXISTING	RELAMP	SURFACE	EXISTING	13W/1500 LUMENS	70/4000K	5
I	DALS	LNPD48-CC-BK	PENDANT	BY ARCHITECT	40W/3000 LUMENS	90/3500K	2,4,6
J	JUNO	WF4-SWW5-90CRI-MW-DIM	RECESSED	WHITE	9W/670 LUMENS	80/3500K	1
K	WILLIAMS	6CR-TL-10-L20-80-3500-X-0-M-CS-PM	PENDANT	BY ARCHITECT	19.8W/2002 LUMENS	80/3500K	2,4,6
X1	DUAL LITE	HCXURW-03L	SURFACE WALL/CEILING	WHITE	LED/LED	–	
X2	DUAL LITE	EV-2	SURFACE WALL/CEILING	WHITE	LED/LED	–	
X3	DUAL LITE	LXURWE	SURFACE WALL/CEILING	WHITE	LED/LED	–	

NOTES LEGEND

1 - COORDINATE CEILING TYPE WITH ARCHITECTURAL PLANS, PROVIDE FLANGE KIT AS NEEDED.
2 - STANDARD COLOR SELECTED BY ARCHITECT.
3 - PROVIDE WET LOCATION RATED FIXTURE
4 - PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION.
5 - RELAMP EXISTING LIGHT WITH AN EXTERIOR OPEN RATED LAMP. CONTRACTOR TO VERIFY EXISTING LIGHT & LAMP COMPATIBILITY.
6 - REFER ARCHITECTURAL PLANS FOR REQUIRED SUSPENSION LENGTH.
7 - PROVIDE COMBATIBLE DIMMER SWITCH AT LOCATION DIRECTED BY OWNER.
8 - MATCHING LUMINAIRE WITH DOWN LIGHT ONLY.

PANEL DESIGNATION: P1
MOUNTING: *RECESSED*
LOCATION: *OFFICE 004*

MAIN LUG AMPS: *225*
MAIN BREAKER: *M.L.O.*
VOLTAGE: *240/120*
PHASE/WIRE: *1Ø, 3W*

DESCRIPTION	PHASE A	PHASE B	C/B TRIP	C/B POLE	CIRCUIT #		C/B POLE	C/B TRIP	PHASE A	PHASE B	DESCRIPTION
BRK RM RCPT	*180*		*20*	*1*	1	2	*1*	*20*	*540*		*WTG & CK IN RCPTS*
BRK RM RCPT		*180*	*20*	*1*	3	4	*1*	*20*		*360*	*CK IN RCPTS*
BRK RM RCPT	*180*		*20*	*1*	5	6	*1*	*20*	*900*		*WTG & CK IN RCPTS*
BRK RM RCPTS		*720*	*20*	*1*	7	8	*1*	*20*		*900*	*TRANSACTION AND MISC RCPTS*
OFFICE RCPTS	*720*		*20*	*1*	9	10	*1*	*20*	*720*		*TRANSACTION RCPTS*
LOWER LEVEL RCPTS		*900*	*20*	*1*	11	12	*1*	*20*		*900*	*SALES AND MISC RCPTS*
VAULT RCPTS	*900*		*20*	*1*	13	14	*1*	*20*	*1080*		*SALES CNTR RCPTS*
VAULT & MISC RCPTS		*1080*	*20*	*1*	15	16	*1*	*20*		*1080*	*SALES CNTR RCPTS*
DUMB WAITER	*200*		*15*	*1*	17	18	*1*	*20*	*540*		*SALES AND MISC RCPTS*
FURNACE F-2		*730*	*15*	*1*	19	20	*1*	*20*		*900*	*SALES AND MISC RCPTS*
CU-2	*1612*		*20*	*2*	21	22	*1*	*20*	*500*		*WTG LOGO SIGN*
-		*1612*	*-*	*-*	23	24	*1*	*20*		*1334*	*F-1*
*BRK RM RCPT**	*1000*		*20*	*1*	25	26	*2*	*40*	*3600*		*CU-1*
EXISTING FURNACE		*800*	*15*	*1*	27	28	*-*	*-*		*3600*	*-*
*EXISTING CU***	*2000*		*30*	*2*	29	30	*1*	*15*	*1046*		*F-3*
-		*2000*	*-*	*-*	31	32	*2*	*35*		*3052*	*CU-3*
EXT LTS, EXT SIGN, LTG CTRLS	*686*		*20*	*1*	33	34	*-*	*-*	*3052*		*-*
GROUND FLOOR INTERIOR LTS		*845*	*20*	*1*	35	36	*1*	*20*		*-*	*SPARE*
GROUND FLOOR INTERIOR LTS	*768*		*20*	*1*	37	38	*1*	*20*	*-*		*SPARE*
LOWER LEVEL INTERIOR LTS		*1133*	*20*	*1*	39	40	*1*	*20*		*-*	*SPARE*
SPARE	*-*		*20*	*1*	41	42	*1*	*20*	*-*		*SPARE*
TOTALS	*8246*	*10000*							*11978*	*12126*	TOTALS

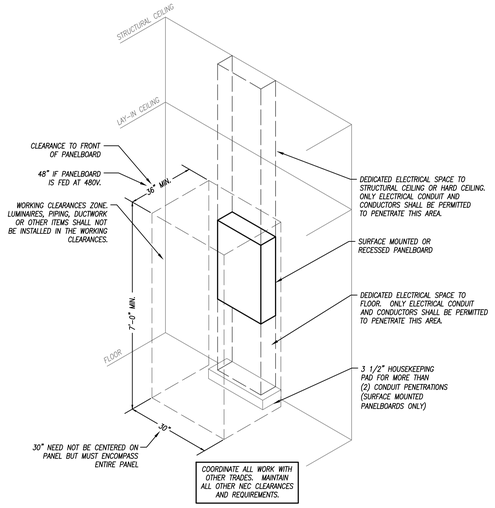
PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	*3,932*	*1.25*	*4,915*
RECEPTACLES	*12,780*	180VA + 50% REST	*11,390*
MOTORS	*200*	1.25*LARGEST+ SUM OF REST	*250*
AIR CONDITIONING	*24,438*	*1.00*	*24,438*
SPACE HEATING	*0*	*0.00*	*0*
CONTINUOUS	*0*	*1.25*	*0*
NON-CONTINUOUS	*1,000*	*1.00*	*1,000*
MISC. LOADS 1	*0*	*1.00*	*0*
MISC. LOADS 2	*0*	*1.00*	*0*
		SIZING LOAD:	41,993
		SIZING LOAD (AMPS):	175

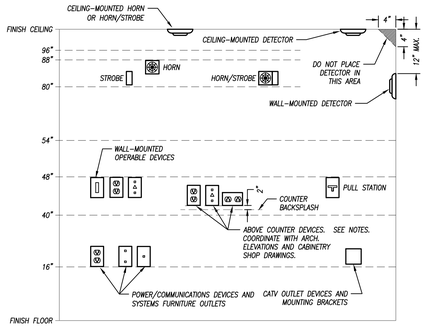
CONNECTED PHASE LOADS

PHASE	VA	AMPS
A	*20,224*	*168.5*
B	*22,126*	*184.4*
TOTALS	42,350	176.5

REMARKS:
1. ** - PROVIDE GFCI CIRCUIT BREAKER.*
2. *** - FIELD VERIFY EXISTING BREAKER SIZE.*
3.
4.
5.



TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



GENERAL NOTES:
1. *MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.*
2. *SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.*
3. *ALL INSTALLATIONS SHALL COMPLY WITH ADA.*

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA)

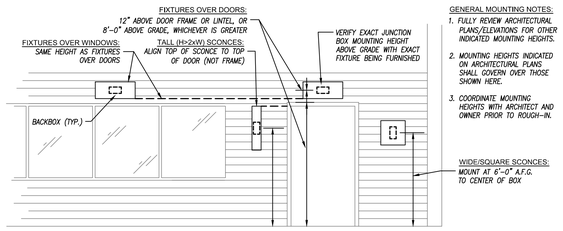
FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
NURSE/PATIENT CALL DEVICES (INLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES
NOT TO SCALE



GENERAL MOUNTING NOTES:
1. *FULLY REVIEW ARCHITECTURAL PLANS/ELEVATIONS FOR OTHER INDICATED MOUNTING HEIGHTS.*
2. *MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL PLANS SHALL GOVERN OVER THOSE SHOWN HERE.*
3. *COORDINATE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.*

EXTERIOR BUILDING-MOUNTED LIGHT FIXTURE MOUNTING HEIGHTS DETAIL
NOT TO SCALE

SERVICE ENTRANCE EQUIPMENT LABEL — PHENOLIC
EQUIPMENT FULLY-RATED AT 65,000 AMPERES RMS SYM AVAILABLE FAULT CURRENT: 61,603 AMPERES DATE CALCULATED: 04/19/2022

SWITCHBOARD LABEL — PHENOLIC
SWITCHBOARD SWDP1 FED FROM UTILITY COMPANY TRANSFORMER 208/120V, 1200A, 3-PHASE

ELECTRICAL PANELBOARD LABEL — PHENOLIC
PANELBOARD LN1 FED FROM SWITCHBOARD SWDP1 IN ROOM #332 208/120V, 200A, 3-PHASE

DISCONNECT SWITCH/STARTER EQUIPMENT LABEL
RTU-1A LP1-CKT 32,34,36 — PHENOLIC

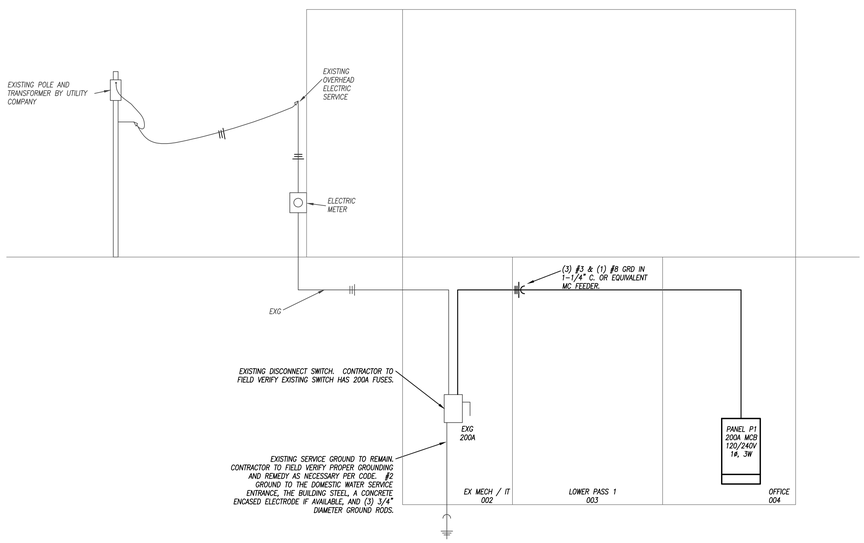
REMOTE DUCT DETECTOR TEST
RTU-1A — PRINTED LABEL (CLEAR W/ BLACK TEXT)

HP1-02 — LIGHTING CONTROL DEVICES

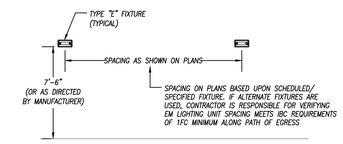
EMERGENCY — ENGRAVED (EM DEVICES ONLY)
302 SS BRUSHED PLATE (TYPICAL ALL WIRING DEVICES)
LP1-02 — RECEPTACLES
CIRCUIT INFORMATION MAY ENGRAVED OR LABELED WITH CLEAR PLASTIC LABELS (WITH BLACK TEXT) (TYP.)

GENERAL LABELING NOTES:
1. *REFER TO PLANS/SPECS FOR ADDITIONAL REQUIREMENTS, INCLUDING:*
   A) DEVICE AND LABEL COLORS.
   B) LABELING REQUIREMENTS FOR OTHER ITEMS NOT SHOWN HERE.
2. *CIRCUIT NUMBERS/INFORMATION SHOWN ON THIS DETAIL ARE FOR EXAMPLE ONLY. REFER TO FLOOR PLANS / PANELBOARD SCHEDULES FOR EXACT INFORMATION TO BE ON LABELS.*

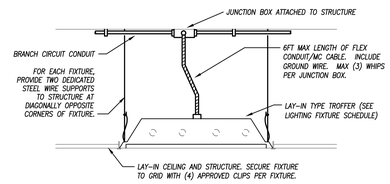
LABELING DETAIL
NOT TO SCALE



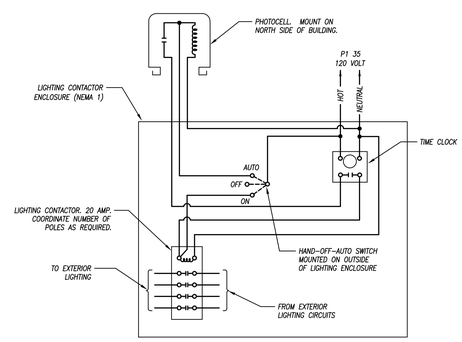
ELECTRICAL RISER DETAIL
NOT TO SCALE



EMERGENCY LIGHTING FIXTURES DETAIL
NOT TO SCALE



TYPICAL TROFFER SUPPORT AND WIRING
NOT TO SCALE



EXTERIOR LIGHTING CONTROL
NOT TO SCALE

NOTES:
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MARK	DATE	DESCRIPTION

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VERVE PROJECT NO.: 24071
ISSUE DATE: 12/20/2024

SHEET NAME: ELECTRICAL SCHEDULES & DETAILS
SHEET NO. **E501**

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COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: The Forest
Project Type: Alteration

Construction Site:
18605 Detroit Ave
Lakewood, Ohio 44107

Owner/Agent:

Designer/Contractor:

Efficiency Packages

Description	Credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Waiting 100 (Common Space Types:Lobby - General)	175	0.84	147
2-Check-In 101 (Common Space Types:Lobby - General)	220	0.84	185
3-Entry 101A (Common Space Types:Corridor/Transition <8 ft wide)	166	0.71	118
4-ADA Toilet 102 (Common Space Types:Restrooms)	42	0.63	26
5-Featured Products 103 (Common Space Types:Sales Area)	347	1.05	364
6-Quick Pick-Up 104 (Common Space Types:Sales Area)	59	1.05	62
7-Jan.Mech 105 (Bank:Banking Activity Area)	48	0.61	29
8-Sales 106 (Common Space Types:Sales Area)	491	1.05	516
9-Stairs 107 (Common Space Types:Corridor/Transition <8 ft wide)	94	0.71	67
10-Sales 108 (Common Space Types:Sales Area)	268	1.05	281
11-Transaction 109 (Common Space Types:Sales Area)	160	1.05	168
12-Stair 110 (Common Space Types:Corridor/Transition <8 ft wide)	174	0.71	124
13-Break 001 (Common Space Types:Lounge/Breakroom)	239	0.59	141
14-Exg Mech IT 002 (Common Space Types:Electrical/Mechanical)	279	0.43	120
15-Lower Pass 1 003 (Common Space Types:Corridor/Transition <8 ft wide)	142	0.71	101
16-Office 004 (Common Space Types:Office - Enclosed)	120	0.74	89
17-Ex Men 005 (Common Space Types:Restrooms)	129	0.63	81
18-Ex Women 006 (Common Space Types:Restrooms)	141	0.63	89
19-Vault 1 007 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	141	0.38	54
20-Vault 2 008 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	598	0.38	227
21-Lower Pass 2 009 (Common Space Types:Corridor/Transition <8 ft wide)	149	0.71	106
22-Storage 010 (Common Space Types:Storage <50 sq.ft.)	37	0.38	14
23-Mech 011 (Common Space Types:Electrical/Mechanical)	44	0.43	19
		Total Allowed Watts =	3710

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Waiting 100 (Common Space Types: Lobby - General, 175 sq.ft.)				
A: A: LED:	0	4	40	160
Check-In 101 (Common Space Types: Lobby - General, 220 sq.ft.)				
A: A: LED:	0	5	40	200
Entry 101A (Common Space Types: Corridor/Transition <8 ft wide, 166 sq.ft.)				
C: C: LED:	0	3	13	39
B: B: LED:	0	1	48	48
ADA Toilet 102 (Common Space Types: Restrooms, 42 sq.ft.)				
A: A: LED:	0	1	40	40
Featured Products 103 (Common Space Types: Sales Area, 347 sq.ft.)				
I: I: LED:	0	5	40	200
C: C: LED:	0	1	13	13
Quick Pick-Up 104 (Common Space Types: Sales Area, 59 sq.ft.)				
I: I: LED:	0	1	40	40
K: K: LED:	0	2	20	40
Jan.Mech 105 (Bank: Banking Activity Area, 48 sq.ft.)				
D: D: LED:	0	1	33	33
Sales 106 (Common Space Types: Sales Area, 491 sq.ft.)				
B: B: LED:	0	7	48	336
Stairs 107 (Common Space Types: Corridor/Transition <8 ft wide, 94 sq.ft.)				
B: B: LED:	0	1	48	48
Sales 108 (Common Space Types: Sales Area, 268 sq.ft.)				
B: B: LED:	0	4	48	192
Transaction 109 (Common Space Types: Sales Area, 160 sq.ft.)				
B: B: LED:	0	2	48	96
J: J: LED:	0	2	9	18
Stair 110 (Common Space Types: Corridor/Transition <8 ft wide, 174 sq.ft.)				
D: D: LED:	0	5	33	165
Break 001 (Common Space Types: Lounge/Breakroom, 239 sq.ft.)				
C: C: LED:	0	5	13	65
Exg Mech IT 002 (Common Space Types: Electrical/Mechanical, 279 sq.ft.)				
D: D: LED:	0	5	33	165
Lower Pass 1 003 (Common Space Types: Corridor/Transition <8 ft wide, 142 sq.ft.)				
C: C: LED:	0	4	13	52
Office 004 (Common Space Types: Office - Enclosed, 120 sq.ft.)				
A: A: LED:	0	2	40	80
Ex Men 005 (Common Space Types: Restrooms, 129 sq.ft.)				
B: B: LED:	0	2	48	96
Ex Women 006 (Common Space Types: Restrooms, 141 sq.ft.)				
A: A: LED:	0	2	40	80
B: B: LED:	0	1	48	48
Vault 1 007 (Common Space Types: Storage >=50 - <=1000 sq.ft., 141 sq.ft.)				
D: D: LED:	0	2	33	66
C: C: LED:	0	1	13	13
Vault 2 008 (Common Space Types: Storage >=50 - <=1000 sq.ft., 598 sq.ft.)				
D: D: LED:	0	6	33	198
C: C: LED:	0	2	13	26
Lower Pass 2 009 (Common Space Types: Corridor/Transition <8 ft wide, 149 sq.ft.)				
C: C: LED:	0	1	13	13
Storage 010 (Common Space Types: Storage <50 sq.ft., 37 sq.ft.)				
D: D: LED:	0	1	33	33
Mech 011 (Common Space Types: Electrical/Mechanical, 44 sq.ft.)				

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
D: D: LED:	0	1	33	33
		Total Proposed Watts =		2636

Proposed Interior Lighting Controls

Fixture	Lighting Control
Waiting 100 (Common Space Types: Lobby - General, 175 sq.ft.)	
A: A: LED:	Occupancy Sensor
Check-In 101 (Common Space Types: Lobby - General, 220 sq.ft.)	
A: A: LED:	Occupancy Sensor
Entry 101A (Common Space Types: Corridor/Transition <8 ft wide, 166 sq.ft.)	
C: C: LED:	Occupancy Sensor
B: B: LED:	Occupancy Sensor
ADA Toilet 102 (Common Space Types: Restrooms, 42 sq.ft.)	
A: A: LED:	Occupancy Sensor
Featured Products 103 (Common Space Types: Sales Area, 347 sq.ft.)	
I: I: LED:	Occupancy Sensor
C: C: LED:	Occupancy Sensor
Quick Pick-Up 104 (Common Space Types: Sales Area, 59 sq.ft.)	
I: I: LED:	Occupancy Sensor
K: K: LED:	Occupancy Sensor
Jan.Mech 105 (Bank: Banking Activity Area, 48 sq.ft.)	
D: D: LED:	Occupancy Sensor
Sales 106 (Common Space Types: Sales Area, 491 sq.ft.)	
B: B: LED:	Occupancy Sensor
Stairs 107 (Common Space Types: Corridor/Transition <8 ft wide, 94 sq.ft.)	
B: B: LED:	Occupancy Sensor
Sales 108 (Common Space Types: Sales Area, 268 sq.ft.)	
B: B: LED:	Occupancy Sensor
Transaction 109 (Common Space Types: Sales Area, 160 sq.ft.)	
B: B: LED:	Occupancy Sensor
J: J: LED:	Occupancy Sensor
Stair 110 (Common Space Types: Corridor/Transition <8 ft wide, 174 sq.ft.)	
D: D: LED:	Occupancy Sensor
Break 001 (Common Space Types: Lounge/Breakroom, 239 sq.ft.)	
C: C: LED:	Occupancy Sensor
Exg Mech IT 002 (Common Space Types: Electrical/Mechanical, 279 sq.ft.)	
D: D: LED:	Manual Control
Lower Pass 1 003 (Common Space Types: Corridor/Transition <8 ft wide, 142 sq.ft.)	
C: C: LED:	Occupancy Sensor
Office 004 (Common Space Types: Office - Enclosed, 120 sq.ft.)	
A: A: LED:	Occupancy Sensor
Ex Men 005 (Common Space Types: Restrooms, 129 sq.ft.)	
B: B: LED:	Occupancy Sensor
Ex Women 006 (Common Space Types: Restrooms, 141 sq.ft.)	
A: A: LED:	Occupancy Sensor
B: B: LED:	Occupancy Sensor
Vault 1 007 (Common Space Types: Storage >=50 - <=1000 sq.ft., 141 sq.ft.)	
D: D: LED:	Occupancy Sensor
C: C: LED:	Occupancy Sensor
Vault 2 008 (Common Space Types: Storage >=50 - <=1000 sq.ft., 598 sq.ft.)	
D: D: LED:	Occupancy Sensor
C: C: LED:	Occupancy Sensor
Lower Pass 2 009 (Common Space Types: Corridor/Transition <8 ft wide, 149 sq.ft.)	
C: C: LED:	Occupancy Sensor
Storage 010 (Common Space Types: Storage <50 sq.ft., 37 sq.ft.)	
D: D: LED:	Occupancy Sensor
Mech 011 (Common Space Types: Electrical/Mechanical, 44 sq.ft.)	
D: D: LED:	Occupancy Sensor

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Corey Bandel - Vice President (Name - Title) | Signature | 12.20.2024 (Date)

COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: The Forest
Project Type: Alteration
Exterior Lighting Zone 2 (Neighborhood business district (LZ2))

Construction Site:
18605 Detroit Ave
Lakewood, Ohio 44107

Owner/Agent:

Designer/Contractor:

Efficiency Packages

Description	Credit

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
West Parking (Parking area)	3150 ft2	0.04	Yes	126
North Ext (Entry canopy)	640 ft2	0.25	Yes	160
West Entrance (Walkway < 10 feet wide)	40 ft of	0.5	Yes	20
		Total Tradable Watts (a) =		306
		Base Site Allowance (b) =		400
		Total Allowed Watts =		306

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
West Parking (Parking area, 3150 ft2): Tradable Wattage				
F: F: LED:	0	5	40	200
G: G: LED:	0	2	20	40
E: E: LED:	0	1	58	58
North Ext (Entry canopy, 640 ft2): Tradable Wattage				
H: H: LED:	0	5	13	65
E: E: LED:	0	1	58	58
West Entrance (Walkway < 10 feet wide, 40 ft of walkway length): Tradable Wattage				
E: E: LED:	0	2	58	116
		Total Tradable Proposed Watts =		537

Proposed Exterior Lighting Controls

Fixture	Lighting Control
West Parking (Parking area, 3150 ft2): Tradable Wattage	
F: F: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
G: G: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
E: E: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
North Ext (Entry canopy, 640 ft2): Tradable Wattage	
H: H: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
E: E: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
West Entrance (Walkway < 10 feet wide, 40 ft of walkway length): Tradable Wattage	
E: E: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Corey Bandel - Vice President (Name - Title) | Signature | 12.20.2024 (Date)

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: The Forest
Location: Lakewood, Ohio
Climate Zone: 5a
Project Type: Alteration

Construction Site:
18605 Detroit Ave
Lakewood, Ohio 44107

Owner/Agent:

Designer/Contractor:

Efficiency Packages

Description	Credit

Mechanical Systems List

Quantity	System Type & Description
1	F-1/CU-1 (Single Zone): Heating: 1 each - Central Furnace (Heating Mode), Gas, Capacity = 115 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Split System (Cooling Mode), Capacity = 54 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None Proposed Efficiency = 16.00 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	F-2/CU-2 (Single Zone): Heating: 1 each - Central Furnace (Heating Equip), Gas, Capacity = 38 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Split System (Cooling Equip), Capacity = 23 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None Proposed Efficiency = 18.00 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	F-3/CU-3 (Single Zone): Heating: 1 each - Central Furnace (Heating Equip), Gas, Capacity = 77 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Split System (Cooling Equip), Capacity = 46 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None Proposed Efficiency = 16.20 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	Existing WH-1: Gas Storage Water Heater, Capacity: 74 gallons, Input Rating: 75 kBtu/h No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Corey Bandel - Vice President (Name - Title) | Signature | 12.20.2024 (Date)

NOTES:
THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO
COREY ROBERT BANDEL
E-91209
REGISTERED PROFESSIONAL ENGINEER
12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
18605 DETROIT AVE
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071
ISSUE DATE: 12/20/2024

SHEET NAME: ENERGY COMPLIANCE

SHEET NO. EN001

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5/14/2024 10:27:27 AM C:\Users\rketchum\Documents\Revit\24019 The Forest 330] Boston St - CENTRAL_rketchum529635.rvt

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "E" Series Sheets
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "E" Series Sheets

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.13.2 C403.13.3 [FO9][1]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][1]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.12.3 [ME61][1]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer Mechanical Series Sheets
C403.8.1 [ME65][1]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets *See the Mechanical Systems list for values.*
C403.8.3 [ME117][1]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer Mechanical Series Sheets.
C403.8.3 [ME117][1]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer Mechanical Series Sheets.
C403.8.3 [ME117][1]	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer Mechanical Series Sheets.
C403.9 [ME144][1]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.13.1 [ME71][1]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.3 [ME55][1]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.2 [ME115][1]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.6 [ME141][1]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.5 [ME116][1]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.12.1 C403.12.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.3.3 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h - 25%	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer Mechanical Series Sheets
C404.2.1 [ME111][1]	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 92 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C403.11.3 ,1, C403.11.3 ,2 [ME123][1]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "E" Series Sheets
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Areas such as security or emergency areas that need continuous lighting.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Areas such as security or emergency areas that need continuous lighting.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "E" Series Sheets
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "E" Series Sheets
C405.7 [EL26][1]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.8 [EL27][1]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.9.1, C405.9.2 [EL28][1]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][1]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "E" series sheets.
C405.1.1 [EL30][1]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.3, C408.2.5.3 [FI8][1]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.1.1 [FI50][1]	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer Mechanical Series Sheets
C403.3.1 [FI27][1]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C403.4.1 [FI47][1]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C403.4.1.2 [FI38][1]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C403.4.1.3 [FI20][1]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C403.4.2 [FI39][1]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C403.4.2.1 C403.4.2.2 [FI40][1]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C404.3 [FI11][1]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

NOTES:
THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS NOT TO BE CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AT THE SITE AND PERFORM THE WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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STATE OF OHIO CERTIFICATE OF AUTHORITY # 07116

STATE OF OHIO COREY ROBERT BANDEL E-91209 REGISTERED PROFESSIONAL ENGINEER 12/20/24

COREY ROBERT BANDEL
LICENSE E-91209

THE FOREST
18605 DETROIT AVE
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071

ISSUE DATE: 12/20/2024

SHEET NAME:
ENERGY COMPLIANCE

SHEET NO.
EN002

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C408.2.3.1 [FI31][1]	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Unitary or packaged HVAC equipment without supply air economizers.
C408.2.3.2 [FI10][1]	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C408.2.5 [FI17][1]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C408.2.5.2 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "M" Series Sheets
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Refer "E" Series Sheets

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

NOTES:
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CONSTRUCTION DOCUMENTS

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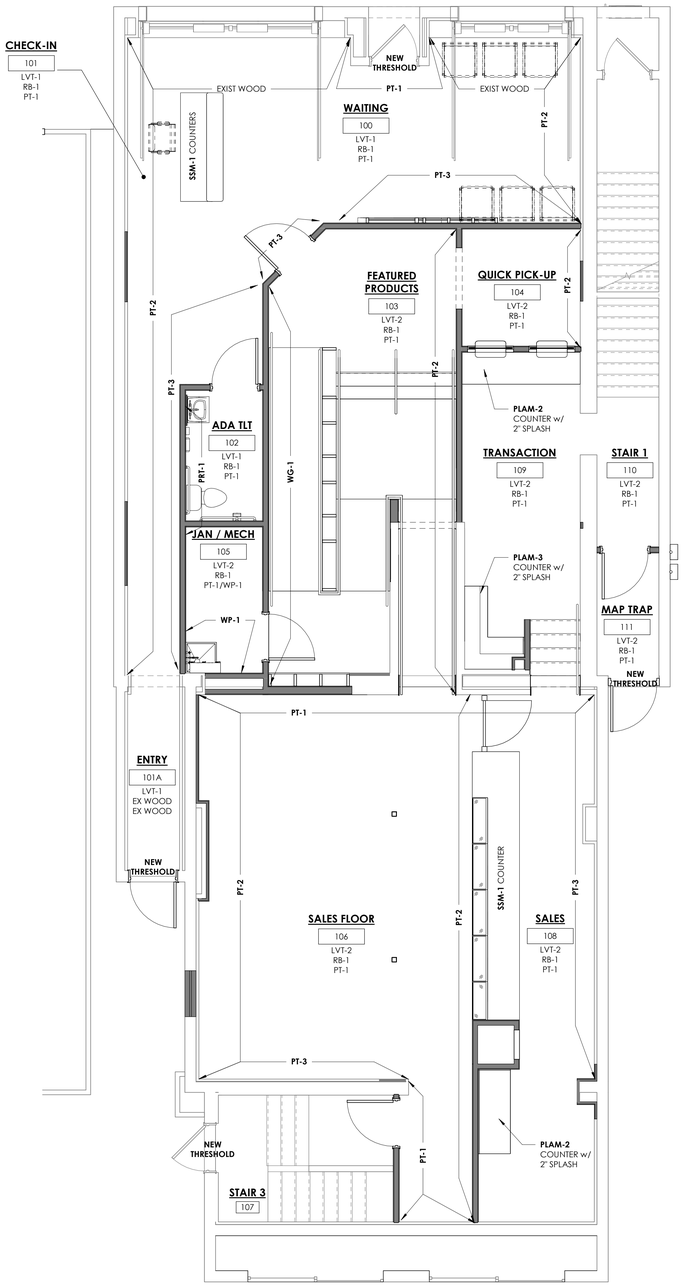
VERVE PROJECT NO.: 24071
ISSUE DATE: 12/20/2024

SHEET NAME:
ENERGY COMPLIANCE

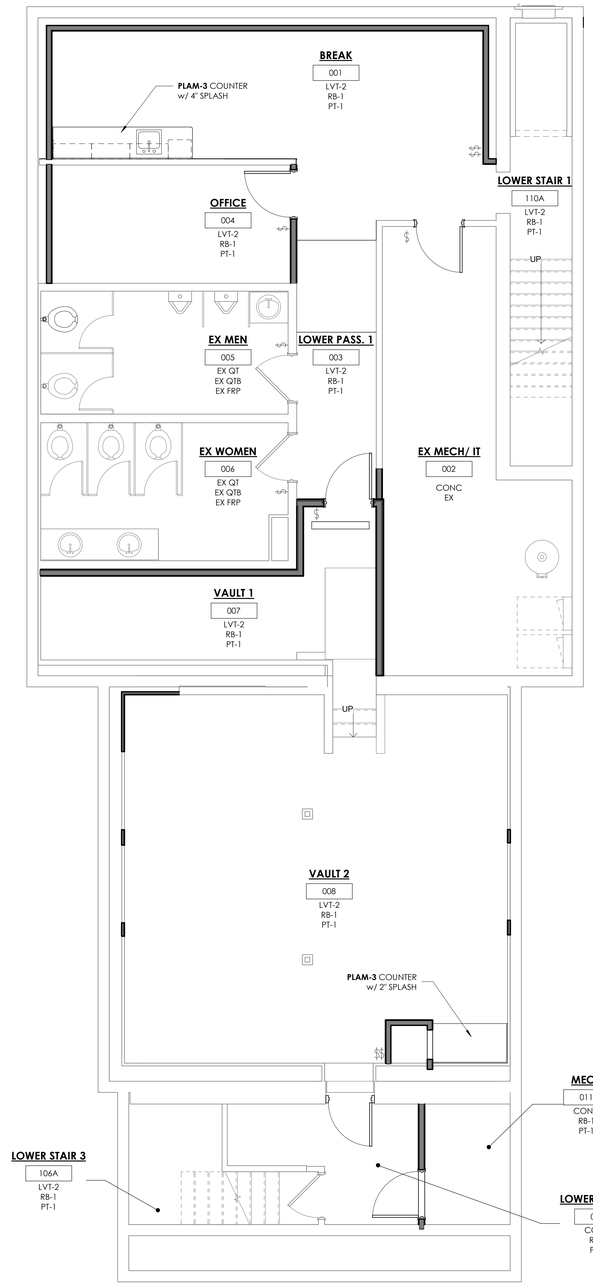
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EN003

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1 / 1100 FIRST FLOOR PLAN
1/4" = 1'-0"



2 / 1100 LOWER LEVEL INTERIORS PLAN
1/4" = 1'-0"

FINISH MATERIAL NOTES:

1. ALL INTERIOR FINISH MATERIAL SHALL COMPLY W/ THE FLAME SPREAD & SMOKE DEVELOPMENT LIMITATIONS LISTED IN CHAPTER 8 OF THE INTERNATIONAL BLDG. CODE AND/OR PER APPLICABLE LOCAL CODES
2. ALL INTERIOR WALL COVERINGS MUST COMPLY W/ THE FOLLOWING: CLASS 1, FLAME SPREAD RATING 0-25, ASTM E-84 PER FINISH SHEET.
3. ALL PAINTED WALLS & DOOR FRAMES TO RECEIVE 2 COATS PER FINISH PAINT COLOR PER FINISH SELECTIONS OR PER OWNER / INTERIOR DESIGNER.
4. CARPET / FLOOR COVERING TO COMPLY W/ DOC-FF-1 PILL TEST ASTM E648. CONTRACTOR TO SUPPLY COPY OF TEST REPORT TO PERMIT REVIEWER & SHALL IDENTIFY CARPET NAME, STYLE & MANUF. INSTALL ARMSTRONG VCT FLOORING WHERE VCT IS INDICATED W/ COLOR PER OWNER / INTERIOR DESIGNER FINISH SELECTIONS.
5. ALL INTERIOR TENANT DOORS ARE TO BE BLDG. STANDARD SOLID CORE W/ H.M. FRAMES STAINED PER OWNER / INTERIOR DESIGNER. SEE ALSO HARDWARE SCHEDULE.
6. ALL BLOCKING USED IN CONSTRUCTION TO BE FIRE TREATED LUMBER (FRT) OR METAL STRAPPING. PROVIDE BLOCKING FOR ALL WALL HUNG ITEMS INCLUDING BUT NOT LIMITED TO GRAB BARS AND CASEWORK.

FINISH MATERIALS FOR APPROVAL:

1. SPECIFICATIONS, SHOP DRAWINGS/LAYOUTS, AND TWO SAMPLES OF EACH MATERIAL SELECTED ARE TO BE PROVIDED FOR APPROVAL BY OWNER & INTERIOR DESIGNER/ARCHITECT. CLIENT MUST SIGN OFF ON ALL SAMPLES APPROVED BEFORE THE INTERIORS ARE INSTALLED.
2. SUBSTITUTIONS NOT ALLOWED UNLESS OTHERWISE NOTED. SPECIFICATIONS MUST BE SUBMITTED WITH PROPOSED SUBSTITUTIONS IMMEDIATELY FOR TENANT/DESIGNER/ARCHITECT APPROVAL.

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STATE OF OHIO
GEOFFREY L CROWLEY
ARC/1316023
REGISTERED ARCHITECT
12-23-2024

GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
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VERVE PROJECT NO.: 24071
ISSUE DATE: 12/23/2024

SHEET NAME: INTERIOR PLANS

SHEET NO. I100

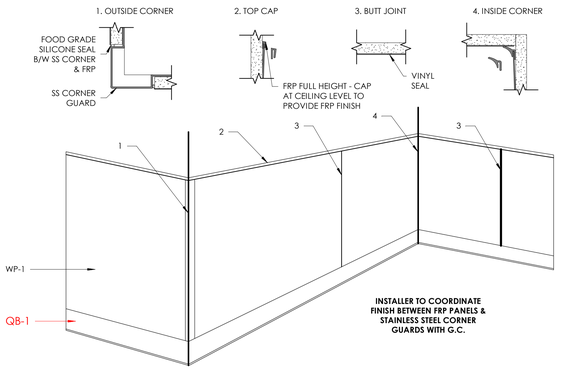
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12/23/2024 10:59:49 AM C:\Users\rcrankfed\Documents\24071 Standard Wellness - Lakewood OH - SELECTED OPTION_CENTRAL_rcrankfed.rvt

FINISH SCHEDULE

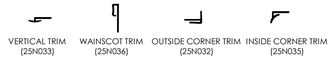
NUMBER	NAME	FLOOR FINISH	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILINGS HEIGHT	CEILINGS FINISH	CABINET FINISH	COUNTER FINISH	REMARKS
001	BREAK	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	7' - 4 3/8"	GYP BD / PT-5	PLAM-3	PLAM-3	
002	EX MECH/ IT	CONC	EX	EX	EX	EX	EX	OPEN		-	-	
003	LOWER PASS. 1	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	EX	ACT-1	-	-	
004	OFFICE	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	7' - 4 3/8"	GYP BD / PT-5	-	-	
005	EX MEN	EX QT	EX QTB	EX FRP	EX FRP	EX FRP	EX FRP	EX	EX ACT	EX	EX	1
006	EX WOMEN	EX QT	EX QTB	EX FRP	EX FRP	EX FRP	EX FRP	EX	EX ACT	EX	EX	1
007	VAULT 1	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	7' - 0"	GYP BD / PT-5	-	-	
008	VAULT 2	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1		GYP BD / PT-5	-	PLAM-3	
009	LOWER PASS. 2	CONC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN	EX	-	-	
011	MECH	CONC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN	EX	-	-	
100	WAITING	LVT-1	RB-1	PT-1 / EX WOOD	PT-1 / PT-3	PT-1 / PT-2	PT-2	10' - 0"	ACT-1	-	-	
101	CHECK-IN	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	10' - 0"	ACT-1	PLAM-1	SSM-1	
101A	ENTRY	LVT-1	EX WOOD	EX WOOD	EX WOOD	EX WOOD	EX WOOD	EX	EX WOOD	-	-	
102	ADA TLT	LVT-1	RB-1	PT-1	PT-1	PT-1	PRT-1	10' - 0"	ACT-1	-	-	
103	FEATURED PRODUCTS	LVT-2	RB-1	PT-1	PT-1	PT-2	WG-1	EX	EX WOOD	PLAM-1	PLAM-1	
104	QUICK PICK-UP	LVT-2	RB-1	PT-1	PT-1	PT-2	PT-1	EX	EX WOOD	-	PLAM-2	
105	JAN / MECH	LVT-2	RB-1	PT-1 / WP-1	PT-1	PT-1	PT-1 / WP-1	10' - 0"	EX WOOD	-	-	
106	SALES FLOOR	LVT-2	RB-1	PT-1	PT-1 / PT-3	PT-2	PT-1 / PT-3	8' - 0"	ACT-1	PLAM-1 / PLAM-2	SSM-1	
106A	LOWER STAIR 3	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN		-	-	
107	STAIR 3	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	8' - 0"	ACT-1	-	-	
108	SALES	LVT-2	RB-1	PT-1	PT-1	PT-1 / PT-2	PT-1	8' - 0"	ACT-1	PLAM-1	SSM-1 / PLAM-2	
109	TRANSACTION	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	10' - 0"	ACT-1	PLAM-3	PLAM-2 / PLAM-3	
110	STAIR 1	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN		-	-	
110A	LOWER STAIR 1	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN		-	-	
111	MAP TRAP	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN		-	-	

REMARKS:
1. GC TO CLEAN EXISTING QUARRY TILE FLOOR AND BASE TO LIKE NEW CONDITION.

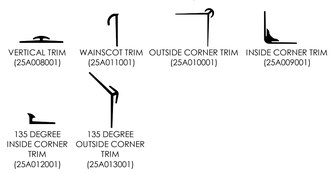


1 / 1600 FRP INSTALLATION DETAILS
1" = 1'-0"

STANDARD TRIMS



METAL TRIMS



2 / 1600 FRP TRIM DETAIL
1" = 1'-0"

FINISH LEGEND

ABBREVIATION	DESCRIPTION	MANUFACTURER	STYLE	COLOR	NUMBER	SIZE	INSTALLATION METHOD	LOCATION	CONTACT	COMMENTS
DIVISION 05 METALS										
05 50 00 METAL FABRICATIONS										
05 52 00 METAL RAILINGS										
HR-1	HAND RAIL									
DIVISION 09 - FINISHES										
09 30 00 - TILING										
09 30 13 - CERAMIC TILE										
PRT-1	PORCELAN TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE ARTIC WHITE	7090	3" x 6"	BRICK	TLT WET WALLS	NIKKI STELLOH 314-327-9764	
09 32 13 - MORTAR BED CERAMIC TILING										
GT-1	GROUT	MAPEI		WARM GRAY	93	1/8"	PER MANUF. SPEC	@ PRT-1		
09 50 00 - CEILINGS										
09 51 00 - ACOUSTICAL CEILINGS										
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	CALLA	WHITE	2821	24" x 48"	PER MANUF. SPEC	SEE FINISH SCHEDULE	BRETT LINDENMEYER 618-830-5462	15/16" SQUARE LAY-IN
ACT-2	ACOUSTIC CEILING TILE									
09 53 00 - ACOUSTICAL CEILING SUSPENSION ASSEMBLIES										
GD-1	CEILING GRID	ARMSTRONG	PRELUDE	WHITE		15/16"	PER MANUF. SPEC	@ ACT-1		
09 54 00 - SPECIALTY CEILINGS										
SPC-1	SPECIALTY CEILING									
09 60 00 - FLOORING										
09 65 00 - RESILIENT FLOORING										
LVT-1	LUXURY VINYL TILE	PATCRAFT	AGGREGATE	BEDROCK	00580	24" x 24"	QUARTER TURN	ALL FLOORS U.N.O.	AMY ELLIS 314-348-7677	
LVT-2	LUXURY VINYL TILE									
RB-1	RUBBER BASE	JOHNSONITE	TRADITIONAL COVE	BLACK	40	4" COVE	PER MANUF. SPEC	ALL WALL BASES		
TS-1	TRANSITION STRIP	JOHNSONITE	ADAPTOR	IRON MOUNTAIN	CGA-TG3-A	1-3/8"	PER MANUF. SPEC	SEE INTERIOR PLAN	AMY ELLIS 314-348-7677	LVT TO CPT
TS-2	TRANSITION STRIP	JOHNSONITE	REDUCER	GATEWAY	RRS-TA4-D	1/8"	PER MANUF. SPEC	SEE INTERIOR PLAN		LVT TO SC OR CONC.
09 68 00 - CARPETING										
CPT-1	CARPET	PATCRAFT	LINEAR TENSION	MOSS	00350	18" x 36"	BASKETWEAVE	OFFICE	TIFFANY AUER 314-440-6235	
09 70 00 - WALL FINISHES										
09 72 13 - WALL COVERINGS										
VWC-1	VINYL WALL COVERING	WOLF GORDON	CANOPY	FOREST	GOH 34079201		PER MANUF. SPEC	WAITING, SEE FINISH SCHEDULE	KRISTIN MINKEVICH 314-303-9874	PREP SURFACE TO LEVEL 5 FINISH
09 90 00 - PAINTING AND COATING										
09 91 00 - PAINTING										
PT-1	PAINT	SHERWIN WILLIAMS	EG-SHELL	PASSIVE	SW7064		PER MANUF. SPEC	MAIN PAINT	HANK MEINKING 314-281-7485	PREP SURFACE TO LEVEL 4 FINISH
PT-2	PAINT	SHERWIN WILLIAMS	EG-SHELL	PAVESTONE	SW7642		PER MANUF. SPEC	ACCENT PAINT		PREP SURFACE TO LEVEL 4 FINISH
PT-3	PAINT	SHERWIN WILLIAMS	EG-SHELL	KALE GREEN	SW6460		PER MANUF. SPEC	ACCENT PAINT		PREP SURFACE TO LEVEL 4 FINISH
PT-4	PAINT	SHERWIN WILLIAMS	EG-SHELL	IRON ORE	SW7069		PER MANUF. SPEC	HM FRAME & DOOR PAINT		
PT-5	PAINT	SHERWIN WILLIAMS	EG-SHELL	PASSIVE	SW7064		PER MANUF. SPEC	GYP. BD. CEILING PAINT		PREP SURFACE TO LEVEL 4 FINISH
PT-6	PAINT	SHERWIN WILLIAMS	EG-SHELL - EXTERIOR	KALE GREEN	SW6460		PER MANUF. SPEC	EXTERIOR TRIM, SILLS & AWNINGS		PREP EXTERIOR SURFACES
PT-7	PAINT	SHERWIN WILLIAMS	EG-SHELL - EXTERIOR	TBD BY OWNER			PER MANUF. SPEC	EXTERIOR BRICK		ALL "CREAM" COLORED BRICK TO BE PAINTED
09 97 00 - SPECIAL COATINGS										
SC-1	SEALED CONCRETE	H&C		CLEAR					HANK MEINKING 314-281-7485	
DIVISION 10 - SPECIALTIES										
10 20 00 - INTERIOR SPECIALTIES										
10 21 00 - COMPARTMENTS AND CUBICLES										
TP-1	TOILET PARTITIONS									
10 26 00 - WALL AND DOOR PROTECTION										
CG-1	CORNER GUARDS	ACROVYN							NATHAN HOMANN 636-349-1645	
WP-1	WALL PROTECTION	INPRO							TOM FORSTER 314-409-5100	
DIVISION 12 - FURNISHINGS										
12 20 00 - WINDOW TREATMENTS										
12 21 00 - WINDOW BLINDS										
WT-1	WINDOW TREATMENT									
12 30 00 - CASEWORK										
12 34 00 - MANUFACTURED WOOD CASEWORK										
PLAM-1	PLASTIC LAMINATE	LAMINART	FINE GRAIN	AGED OAK	3070		PER MANUF. SPEC	POS CASEWORK FRONT	PATTY EGAN 314-809-5114	SEE CASEWORK SECTIONS
PLAM-2	PLASTIC LAMINATE	WILSONART	TEXTURED GLOSS	DESIGNER WHITE	D354-07		PER MANUF. SPEC	POS CASEWORK BACK	ANN YOUNG 314-221-2434	SEE CASEWORK SECTIONS
PLAM-3	PLASTIC LAMINATE	WILSONART	FINE VELVET TEXTURE	CHARCOAL	10592-38		PER MANUF. SPEC	BOH CASEWORK		
12 36 00 - COUNTERTOPS										
PLAM-4	PLASTIC LAMINATE	PANOLAM	ARP (T-)	WHITE KINETIC	AW1800		PER MANUF. SPEC	DRY COUNTER		
SSM-1	SOLID SURFACE	CORIAN		DESIGNER WHITE			PER MANUF. SPEC	BREAK COUNTER	GENE WYATT 309-825-4039	
DIVISION 26 - ELECTRICAL										
26 20 00 - LOW-VOLTAGE ELECTRICAL DISTRIBUTION										
26 27 00 - WALL PLATES										
DCP-1	DEVICE COVER PLATES			WHITE						

FINISH MATERIAL NOTES:

1. ALL INTERIOR FINISH MATERIAL SHALL COMPLY W/ THE FLAME SPREAD & SMOKE DEVELOPMENT LIMITATIONS LISTED IN CHAPTER 8 OF THE INTERNATIONAL BLDG. CODE AND/OR PER APPLICABLE LOCAL CODES
2. ALL INTERIOR WALL COVERINGS MUST COMPLY W/ THE FOLLOWING: CLASS 1, FLAME SPREAD RATING 0-25, ASTM E-84 PER FINISH SHEET.
3. ALL PAINTED WALLS & DOOR FRAMES TO RECEIVE 2 COATS PER FINISH PAINT COLOR PER FINISH SELECTIONS OR PER OWNER / INTERIOR DESIGNER.
4. CARPET / FLOOR COVERING TO COMPLY W/ DOC-FF-1 PILL TEST ASTM E648. CONTRACTOR TO SUPPLY COPY OF TEST REPORT TO PERVAIT REVIEWER & SHALL IDENTIFY CARPET NAME, STYLE & MANUF. INSTALL ARMSTRONG VCT FLOORING WHERE VCT IS INDICATED W/ COLOR PER OWNER / INTERIOR DESIGNER FINISH SELECTIONS.
5. ALL INTERIOR TENANT DOORS ARE TO BE BLDG. STANDARD SOLID CORE W/ H.M. FRAMES STAINED PER OWNER / INTERIOR DESIGNER. SEE ALSO HARDWARE SCHEDULE.
6. ALL BLOCKING USED IN CONSTRUCTION TO BE FIRE TREATED LUMBER (FRT) OR METAL STRAPPING. PROVIDE BLOCKING FOR ALL WALL HUNG ITEMS INCLUDING BUT NOT LIMITED TO GRAB BARS AND CASEWORK.

FINISH MATERIALS FOR APPROVAL:

1. SPECIFICATIONS, SHOP DRAWINGS/LAYOUTS, AND TWO SAMPLES OF EACH MATERIAL SELECTED ARE TO BE PROVIDED FOR APPROVAL BY OWNER & INTERIOR DESIGNER/ARCHITECT. CLIENT MUST SIGN OFF ON ALL SAMPLES APPROVED BEFORE THE INTERIORS ARE INSTALLED.
2. SUBSTITUTIONS NOT ALLOWED UNLESS OTHERWISE NOTED. SPECIFICATIONS MUST BE SUBMITTED WITH PROPOSED SUBSTITUTIONS IMMEDIATELY FOR TENANT/DESIGNER/ARCHITECT APPROVAL.

VERVE DESIGN STUDIO
1558 S. BROADWAY
ST. LOUIS, MISSOURI 63104
314-822-4007
www.VERVEDS.com

ANVIL AGRINOMICS
ANVIL AGRINOMICS LLC
6002 MONROVIA ST.
SHAWNEE, KS 66216
913-226-7077
STATE OF OHIO CERTIFICATE OF AUTHORITY # 07116

STATE OF OHIO
GEOFFREY L. CROWLEY
ARC/1316023
REGISTERED ARCHITECT
12-23-2024

GEOFFREY LEWIS CROWLEY
NUMBER ARC 1316023

THE FOREST
18605 DETROIT AVE.
LAKEWOOD, OH 44107

CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION

THIS SHEET IS PART OF A COMPLETE SET. REFER TO DRAWING INDEX FOR COMPLETE LIST OF DOCUMENTS. SHEET SIZE 30 X 42

VERVE PROJECT NO.: 24071
ISSUE DATE: 12/23/2024

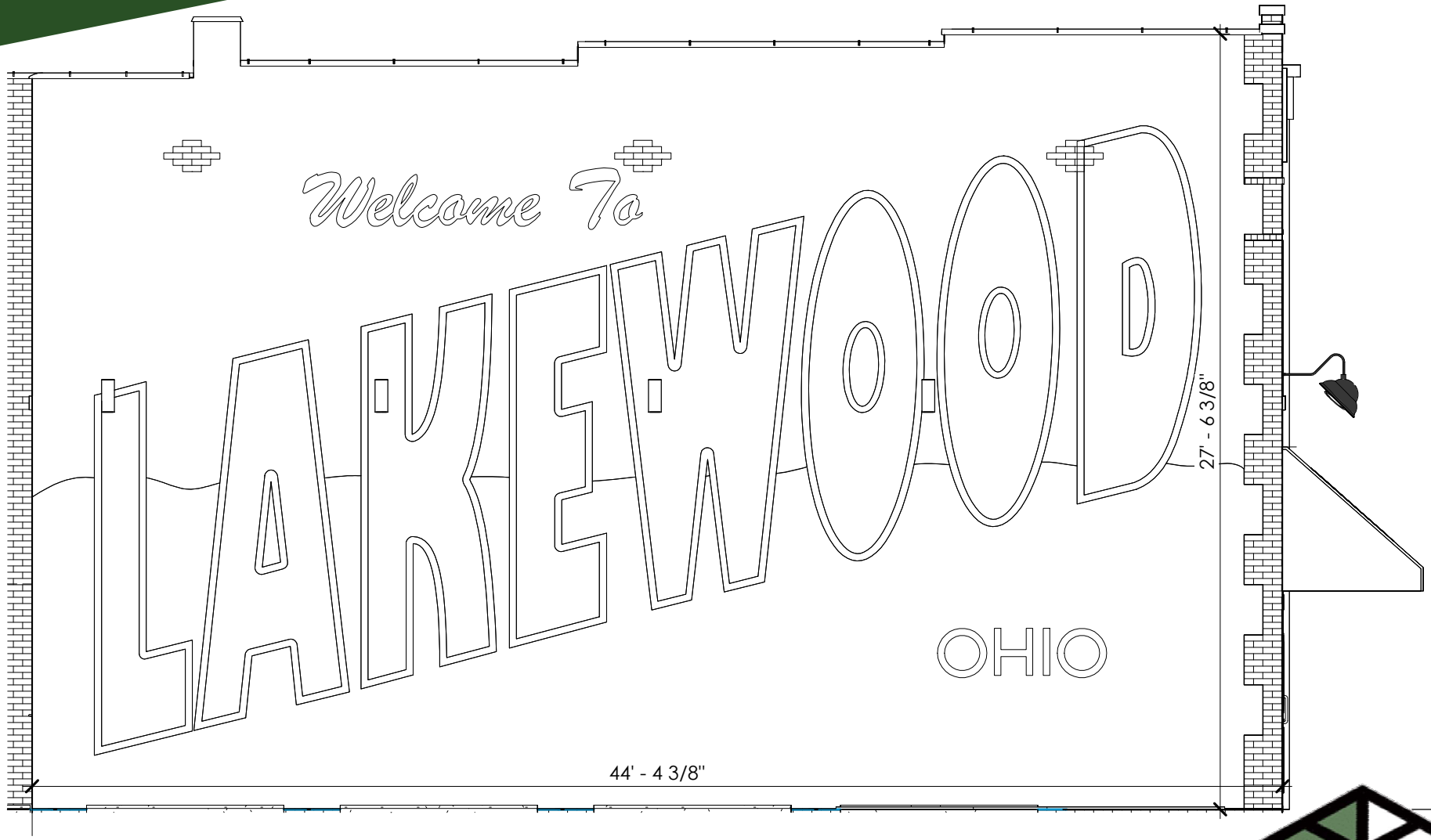
SHEET NAME: FINISH SCHEDULE

SHEET NO. 1600

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12/23/2024 10:59:52 AM C:\Users\ncarlsted\Documents\24071 Standard Wellness - Lakewood OH - SELECTED OPTION _ CENTRAL_ncarlsted.rvt

THE FOREST



24071

VERVE DESIGN STUDIO

01/16/25

18605 DETROIT AVE.
LAKEWOOD, OH 44107

EAST ELEVATION SK-06


BOSCH
M
50' 9 3/16"
GLR225
Min Max
M+
M=
M-
m/ft


NO
TURN
ON RED
RTA
MUST USE
LEFT LANE
FOR BUS
TURNAROUND
WAR HORSE INK
TATTOOS 216-533-1150
HARRY BUFFALO
WAR HORSE INK
WAR HORSE INK
JOIN THE HERD
RISE


Graber
ALT
6
Detroit Ext
RISE
DISPENSARY
18607
18605
FAMILY
DENTAL


HARRY BUFFALO


NEW
HOURS
MON.—TUES.—WEDS.—THURS.
3:00pm—12:00am
FRIDAY 3:00pm—2:00am
SATURDAY 11:00am—2:00am
SUNDAY 11:00am—12:00am




WAR HORSE INK
TATTOOS 216-633-1150
HARRY BUFFALO


NO
PARKING

LET'S DO BRUNCH
SATURDAYS
SUNDAYS
11-3PM
HARRY
BUFFALO
NEW
HOURS
WEDS.–THURS.
12:00am
FRIDAY 3:00pm–2:00am
SATURDAY 11:00am–2:00am
SUNDAY 11:00am–12:00am


HARRY BUFFALO
CHAMPAGNE
WINE
M.G.D
PRODUCT OF SPAIN
GUINNESS
FROM IRELAND
NO MORE SKINNY CANS
BACARDI

SIP ME
I'M IRISH
JAMESON
EST? 1780
TRIPLE DISTILLED
IRISH WHISKEY

Jenga




EXIT
Tito's
ORIGINAL
WINE
M.G.D
PRODUCT OF SPAIN
HARP
BEER
GUINNESS
NO MORE SKINNY CANS
BURGER NIGHT
$2 OFF ALL BURGERS
EVERY WEDNESDAY
DINE-IN ONLY
HARP BUFFALO


HARRY
BUFFALO
NEW
HOURS






EXIT
RESTROOMS


EXIT

MANUFACTURED PALLET
PALLET
00617143

CLEAR


EXIT
BUNN
ICED TEA
BRUNCH


Miller Lite
VELAND FOOTBALL
T FANS GOOD CA
FRAGILE

FRAGILE

CHAMPAG


EXIT
HARRY
UFFALO
CORONA
MEXICO
RED STRIPE
JAMAICA
RED DOG
MOVE


EXIT


EXIT
HEAD HUNTER


The MOOSE is LOOSE
MOOSEHEAD
BEER
EXIT
EXIT



City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-15-25

Permit No.: BBS25-000009

Applicant Name: Forest Sluzewski, Dialogue Collaborative

Project Address: 2230 Brown Rd.

Project Name: n/a

Project: Applicant proposes a porch addition and reconstructed garage.

Owner Authorization Affidavit
Development Applications

This affidavit certifies that the party listed below as the "Applicant," has been granted authorization by and from the property owner(s) to obtain a permit(s) or entitlement(s) on behalf of the property owner(s). This form must be filled out completely by the joint, sole, officer of, or authorized representative of the owner(s) if another party is submitting an application on the owner's behalf. This form must be submitted at the time of application submission to Story County Planning and Development.

I, Michael Polk Jr. , am the owner; or joint, sole, officer of, or authorized representative of the owner; of
(Print Name(s))

the property listed below, and I certify that I have granted/authorized, Forest Sluzewski representing
(Print Applicant's Name)

Dialogue Collaborative as my duly authorized agent and give permission to Applicant to obtain the permits or
(Print Company's Name)

entitlements necessary for the approval, construction (or installation) at the following address(es):

2230 Brown Road, Lakewood, OH 44107 for the planning, construction or

installation of: Residence Porch Addition and Reconstructed Garage

I authorize the applicant to file this application and to represent me on all matters concerning the associated application.

I hereby permit County officials to enter upon the property for the purpose of site visit, and, if necessary, to post a public notice sign on the property.

As a condition of this application and to the fullest extent of the law, applicant hereby agrees to and shall defend, indemnify, release and hold harmless Story County, its officers, officials, employees, agents, commissions, boards, and committees (collectively, "Indemnitees") from any claim, action, lawsuit, or proceeding brought against any of the Indemnitees arising from or related to, directly, indirectly or remotely, this application or the issuance of the permit, or the failure of such applicant, or the agents, employees or servants of such applicant, to abide by or comply with any of the provisions of the Story County Code of Ordinances or the terms and conditions of such permit. This duty of indemnification and defense shall include, and is not limited to, damages, costs, expenses, award of damages, attorney fees, or expert witness fees that may be asserted against Indemnitees by any person or entity, including the applicant, arising out of or in conjunction with this application. The applicant shall indemnify the County for all of its costs, attorney's fees, and damages which County incurs in enforcing the indemnification provisions set forth herein. Applicant hereby represents and warrants that it either 1) is the owner of the property subject to this application, or 2) has lawful authority to bind itself and the property owner(s) to the foregoing indemnification.

Signatures: By: _____ Date: 01/21/2025

Print Name Michael Polk Jr.

By: _____ Date: 01/21/2025

Print Name _____



ANSI D 22X34 2025-01-15

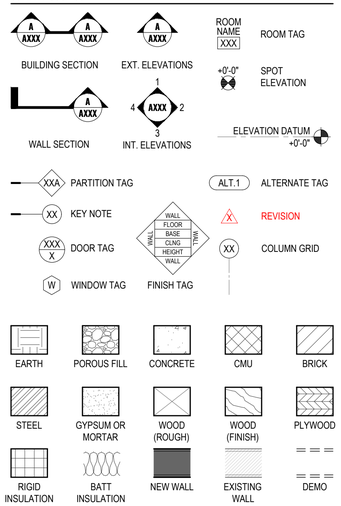
HANEY RESIDENCE

SINGLE FAMILY RESIDENCE | RENOVATION
2230 BROWN ROAD, LAKEWOOD, OHIO 44107

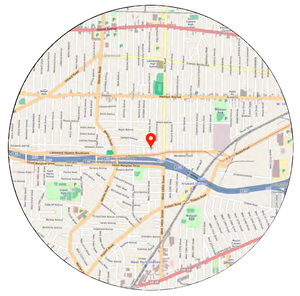
ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF	LAMINATED PLASTIC	LAM
ADJUSTABLE	ADJ	LANDLORD	LL
ALUMINUM	ALUM	LEFT-HAND	LH
ANCHOR BOLT	AB	LONG LEG HORIZONTAL	LLH
APPROXIMATELY	APPROX	LONG LEG VERTICAL	LLV
ARCHITECTURAL	ARCH	LONG	LG
AT	@	MANHOLE	MH
BEAM	BM	MANUFACTURER	MFR
BEARING	BRG	MASONRY OPENING	MO
BLOCKING	BLKG	MATERIAL	MATL
BOARD	BD	MAXIMUM	MAX
BOTTOM	BTM or B/	MECHANICAL	MECH
BUILDING	BLDG	METAL	MTL
CATCH BASIN	CB	MINIMUM	MIN
CEILING	CLNG	MISCELLANEOUS	MISC
CENTER TO CENTER	C/C	MOUNTED	MTD
CENTERLINE	CL	NOT APPLICABLE	NA
CLEAN OUT	CO	NOT IN CONTRACT	NIC
COLUMN	COL	NOT TO SCALE	NTS
CONCRETE MASONRY UNIT	CMU	ON CENTER	OC or o.c.
CONCRETE	CONC	OPENING	OPNG
CONSTRUCTION	CONST	OPPOSITE	OPP
CONTINUOUS	CONT	OUTSIDE DIAMETER	OD
CONTROL JOINT	CJ	OVERFLOW ROOF DRAIN	ORD
COURSE	CRS	PAINT	PT
DIAMETER	DIA	PAIR	PR
DIMENSION	DIM	PLASTIC LAMINATE	PLAM
DOWN	DN	PLATE	PL
DOWNSPOUT	DS	PLUS OR MINUS	±
DRAWING	DWG	PLYWOOD	PLWD
EACH FACE	EF	POINT OF SALE	POS
EACH WAY	EW	PRESERVATIVE TREATED	PPT
EACH	EA	PROPERTY LINE	P/L
ELECTRIC	ELEC	QUARRY TILE	QT
ELECTRIC WATER COOLER	EWC	RADIUS	RAD or R
ELEVATION	ELEV	RAIN WATER CONDUCTOR	RWC
EQUAL	EQ	REINFORCED	REINF
EXISTING	EXIST	REQUIRED	REQ'D
EXPANSION JOINT	EJ	REVISION	REV
EXTERIOR	EXT	RIGHT HAND	RH
EXTERIOR INSULATION & FINISH SYSTEM	EIFS	RIGHT OF WAY	ROW
FIBER REINFORCED PLASTIC	FRP	ROOF DRAIN	RD
FINISH	FIN	SECTION	SECT
FINISHED FLOOR	FF	SHEET	SHT
FIRE EXTINGUISHER CABINET	FEC	SIMILAR	SIM
FIRE RETARDANT TREATED	FRT	SPECIFICATION	SPEC
FIXTURE	FIXT	SQUARE FEET	SF
FLOOR	FLR	STAINLESS STEEL	SS
FLOOR DRAIN	FD	STANDARD	STD
GALVANIZED	GALV	STEEL	STL
GAUGE	GA	STRUCTURAL	STRUCT
GENERAL CONTRACTOR	GC	SUSPENDED	SUSP
GLASS	GL	TELEPHONE	TEL
GLASS FIBER REINFORCED CONCRETE	GFRC	TONGUE AND GROOVE	T&G
GLASS FIBER REINFORCED GYPSUM	GFRG	TOP OF	T.O.
GYPSUM BOARD	GYP BD	TOP OF JOIST	TOJ
HANDICAPPED	HCPD	TOP OF MASONRY	TOM
HARDWOOD	HDWD	TOP OF STEEL	TOS
HEATING/VENTILATING/AIR CONDITIONING	HVAC	TYPICAL	TYP
HEAVY DUTY	HD	UNLESS NOTED OTHERWISE	UNO
HOLLOW CORE	HC	VERTICAL	VERT
HOLLOW METAL	HM	VINYL COMPOSITION TILE	VCT
HORIZONTAL	HORIZ	VINYL TILE	VT
HOSE BIBB	HB	VINYL WALL COVERING	VWC
HOT WATER HEATER	WH	WALL COVERING	WC
HOUR	HR	WELDED WIRE FABRIC	WWF
INSIDE DIAMETER	ID	WITH	W/
INSULATION	INSUL	WITHOUT	W/O
INTERIOR	INT	WOOD	WD
JOIST BEARING	JB	WORK POINT	WP

SYMBOLS



VICINITY MAP



PROJECT TEAM

ARCHITECT

DIALOGUE COLLABORATIVE
E: forest@dialogue-collab.com
PH: +1 440 539 8609

FOREST SLUZEWSKI, RA
PO BOX 1953
CLEVELAND, OHIO 44106

CLIENT

STEPHANIE HANEY
E: haneystephanie@gmail.com
PH: +1 330 705 8966

2230 BROWN ROAD
LAKEWOOD, OHIO 44107

PROJECT SUMMARY

THIS PROJECT ILLUSTRATES THE ALTERATION OF A SINGLE-FAMILY RESIDENCE AND NEW CONSTRUCTION OF A GARAGE.

THE PROJECT CONSISTS OF THE DEMOLITION OF AN EXISTING GARAGE STRUCTURE FOR THE CONSTRUCTION OF A NEW, EQUIVALENT, WOOD-FRAMED GARAGE ON THE EXISTING FOUNDATIONS.

ALTERATIONS CONSIST OF:

1. ADDITION OF A 2-STORY WOOD FRAMED PORCH ON THE FRONT OF THE HOUSE.
2. ADDITION OF A CONDITIONED "MUD ROOM" AND POWDER ROOM IN THE FOOTPRINT OF AN EXISTING EXTERIOR PORCH.
3. ALTERATION OF THE INTERIORS INCLUDING LIGHTING, FINISHES, MECHANICAL SYSTEM REPLACEMENT, ELECTRICAL DISTRIBUTION REPAIR AND REPLACEMENT, AND THE ADDITION OF PLUMBING FIXTURES.

THIS PROJECT SHALL ABIDE BY THE HERITAGE HOME PROGRAM (HHP), A LINKED DEPOSIT PROGRAM OF THE CUYAHOGA COUNTY TREASURER AND THE CLEVELAND RESTORATION SOCIETY (CRS)

CODE REVIEW

2024

APPLICABLE CODES:

2019 RESIDENTIAL CODE OF OHIO [RCO]
2017 OHIO ACCESSIBILITY CODE [ICC A117.1]
2024 OHIO MECHANICAL CODE [OMC]
2024 OHIO PLUMBING CODE [OPC]
2023 NATIONAL ELECTRICAL CODE [NEC/NFPA 70]

ZONING DATA:

CITY:	LAKEWOOD
PARCEL:	314-23-039
ZONING DISTRICT:	R-2
LOT SIZE:	3,456 SF
ACCESSORY STRUCTURE HT:	MAX. 15' (13' PROPOSED)
PRIMARY FRONT SETBACK:	22' OR AVERAGE OF EXISTING FRONT YARD DEPTHS (REFER TO AS101) EXTERIOR STEPS LEADING TO A MAIN ENTRANCE OF A PRINCIPAL BUILDING SHALL BE EXCLUDED FROM THE FRONT YARD REQUIREMENT.
ACCESSORY REAR SETBACK:	18" (EXISTING)
ACCESSORY SIDE SETBACK:	18" (EXISTING)

RCO 2019 CODE DATA:

THERE ARE NO PROPOSED CHANGES TO OCCUPANCY, USE, OWNERSHIP, OCCUPANT LOAD, INTENSITY OF USE, FIRE AREA, EGRESS CAPACITY, BUILDING HEIGHT OR NUMBER OF STORIES.

NEW WORK SHALL COMPLY WITH APPLICABLE CODES LISTED AS WELL AS CHAPTER 3781 + 3791 OF THE OHIO REVISED CODE.

CH. 11 ENERGY EFFICIENCY

ADDITION + NEW:	ZONE 5
FENESTRATION U-FACTOR:	0.30
CEILING R-VALUE:	R-49
WOOD-FRAMED WALLS:	R-20
BASEMENT WALLS:	R10 c.i.
SLAB:	R10 c.i. / 2FT
CRAWL SPACE:	R10 c.i.
ALTERATION + REPAIR:	ZONE 5
FENESTRATION U-FACTOR:	0.35
CEILING R-VALUE:	R-38
WOOD-FRAMED WALLS:	R-20
BASEMENT WALLS:	R10 c.i.
SLAB:	R10 c.i. / 2FT
CRAWL SPACE:	R10 c.i.

DRAWING INDEX

SHEET NO.	DESCRIPTION
GENERAL	
G001	COVER SHEET AND CODE REVIEW
ARCHITECTURAL	
	EXTERIOR SCOPE
AS101	ARCHITECTURAL SITE DEMOLITION AND PLAN
A101	DEMOLITION PLANS - EXTERIOR SCOPE
A102	FLOOR PLANS - EXTERIOR SCOPE
A103	EXTERIOR ELEVATIONS
A104	DETAIL PLANS - EXTERIOR SCOPE
A105	DETAILS - EXTERIOR SCOPE
A106	DETAILS - PORCH SCOPE
	INTERIOR SCOPE
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

DELEGATED DESIGN REQ'S

1. PERFORMANCE AND DESIGN CRITERIA: WHERE PROFESSIONAL DESIGN SERVICES OR CERTIFICATIONS ARE REQUIRED BY THE CONTRACT, PROVIDE PRODUCTS AND SYSTEMS MEETING SPECIFIED PERFORMANCE AND DESIGN CRITERIA. IF THE CRITERIA ARE INSUFFICIENT FOR THE REQUIRED SERVICES OR CERTIFICATION, SUBMIT A WRITTEN REQUEST FOR MORE INFORMATION TO THE ARCHITECT.
2. DELEGATED-DESIGN SUBMITTAL: IN ADDITION TO SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS, SUBMIT SIGNED, SEALED STATEMENTS FOR EACH ASSIGNED PRODUCT/SYSTEM, CONFIRMING COMPLIANCE WITH CONTRACT CRITERIA; INCUDING, BUT NOT LIMITED TO, CODES, LOADS, AND PERTINENT FACTORS.
3. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PE REGISTERED IN THE STATE OF OHIO.

DELEGATED DESIGN SYSTEMS

1. **MECHANICAL**

   SYSTEM DESIGN PER APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO:

   LOAD CALCULATIONS PER ACCA MANUAL J, VENTILATION REQUIREMENT PER ASHRAE STANDARD 62.2, DUCT SIZING AND LAYOUT PER MANUAL D, EQUIPMENT SPECIFICATION, CONTROL SPECIFICATION, GAS DEMAND AND SIZING CALCULATIONS PER NFPA 54.

2. **ELECTRICAL**

   SYSTEM DESIGN PER APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO:

   LOAD CALCULATIONS PER NEC ARTICLE 220, PANEL SIZING AND SCHEDULES, CIRCUIT LOADING, ONE LINE DIAGRAMS, GROUNDING, BONDING, WIRING AND CONDUIT SPECIFICATION, LIGHTING CONTROLS

3. **PLUMBING**

   SYSTEM DESIGN PER APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO:

   WATER SUPPLY FIXTURE UNIT CALCULATIONS, DRAINAGE FIXTURE UNIT CALCULATIONS, RISER DIAGRAMS, PIPING SPECIFICATION AND SIZING, FIXTURE SIZING, GAS DEMAND AND SIZING CALCULATIONS PER NFPA 54.

ALTERNATES

ALT.1: PROVIDE ALTERNATE VENTED ROOF ASSEMBLY TO MEET ENERGY COMPLIANCE.

ALT.2: DEDUCT NEW DOOR TO ATTIC ONLY IF OWNER APPROVES INSULATING, FINISHING, AND CONDITIONING ATTIC SPACE.

REFERENCE

EXHIBIT A - CRS MINIMUM DESIGN STANDARDS SPECIFICATIONS

IF ANY DISCREPANCIES OR AMBIGUITIES, THE CRS MINIMUM DESIGN STANDARD SPECIFICATION SHALL TAKE PRECEDENT TO THE DRAWINGS HEREWITHIN.

GENERAL NOTES AND REQUIREMENTS

THE DESIGN, DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT. ALL RIGHTS ARE RESERVED.

1. **DEFINITIONS**

   FURNISH: THE TERM "FURNISH' MEANS TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS

   INSTALL: THE TERM 'INSTALL' DESCRIBES OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING AND SIMILAR OPERATIONS.

   PROVIDE: THE TERM 'PROVIDE' MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

2. **INTENT OF CONTRACT DOCUMENTS**

   DO NOT SCALE DRAWINGS. REQUEST CLARIFICATION FROM THE ARCHITECT TO RESOLVE DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR TO SUPPLY ADDITIONAL INFORMATION.

   THE INTENT OF THE CONTRACT DOCUMENTS IS TO ILLUSTRATE THE ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR AND SUBCONTRACTOR. IT IS UNDERSTOOD AND AGREED THAT THE MECHANICAL, PLUMBING OR ELECTRICAL ENGINEERING, OR DESIGN, ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. DIALOGUE COLLABORATIVE LLC ACCEPTS NO RESPONSIBILITY FOR THE MECHANICAL, PLUMBING OR ELECTRICAL FAILINGS DUE TO OR INDUCED BY DEFICIENCIES OR ERRORS IN THE DESIGN, ENGINEERING, OR CONSTRUCTION OF THESE SYSTEMS.

   THESE DRAWINGS ARE PART OF A COMPLETE SET OF DOCUMENTS INCLUDING SPECIFICATIONS WHICH PERTAIN TO THIS PROJECT. DEVIATION FROM DESIGN INTENT AND MATERIALS REPRESENTED IN THESE DOCUMENTS ARE PROHIBITED AND THE SOLE RESPONSIBILITY OF THE CONTRACTOR, UNLESS SPECIFIC WRITTEN CONSENT IS GRANTED BY THE ARCHITECT.

3. **INTERPRETATION OF CONTRACT DOCUMENTS**

   ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS.

   IF ANY DISCREPANCIES, AMBIGUITIES IN, OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS ARE FOUND, OR INQUIRIES RELATIVE TO THE MEANING OR INTENT OF THE CONTRACT DOCUMENTS ARISE, THEY SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO THE START OF CONSTRUCTION, OR INSTALLATION, SO THAT A CLARIFICATION CAN BE ISSUED. SUCH INSTRUCTIONS AND OTHER ADDENDA ISSUED PRIOR TO DATE OF THE SIGNING OF THE AGREEMENT WILL BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS AND BE BINDING TO THE CONTRACTOR AND SUBCONTRACTOR.

   ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR EXPENSE.

4. **COORDINATION OF THE WORK**

   THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BEGINNING OF CONSTRUCTION AND INSTALLATION, AND FOR THE WORK AND METHODS OF CONSTRUCTION.

   CONTRACTORS SHALL REVIEW JOB CONDITIONS WITH RELATED TRADES TO ASCERTAIN THEIR PORTION OF WORK PRIOR TO SUBMITTING BIDS.

   THESE CONTRACT DOCUMENTS ARE ARRANGED IN DISCIPLINE AND TRADE, BUT SUCH SEGREGATION SHALL NOT BE CONSIDERED AS LIMITING OF THE WORK REQUIRED BY ANY INDIVIDUAL TRADE. THE DIVISION AND COORDINATION OF WORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

   WITHOUT ADDITIONAL COST, THE CONTRACTOR SHALL COORDINATE AND PROVIDE INCIDENTAL ITEMS. LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT IS IMPLIED, OR NECESSARY, FOR THE COMPLETION OF THE PROJECT. THE DETERMINATION OF WHICH IS DEEMED INCIDENTAL SHALL IN ALL CASES BE LEFT TO THE JUDGEMENT OF THE ARCHITECT.

   WORK IS TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, CONDITIONS STATED ON THE CONTRACT DOCUMENTS, LOCAL ORDINANCES, THE U.S. DEPARTMENT OF JUSTICE 2010 ADA STANDARDS, AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION (AHJ).

5. **PERMITTING**

   THE CONTRACTOR SHALL OBTAIN, AND PAY FOR, ALL REQUIRED PERMITS, TESTING, AND INSPECTIONS.

6. **BETTERMENT**

   IF ANY REQUIRED ITEM OR COMPONENT OF THE PROJECT IS OMITTED FROM THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR PAYING THE COST TO ADD SUCH ITEM OR COMPONENT TO THE EXTENT THAT SUCH ITEM, OR COMPONENT, WOULD HAVE BEEN OTHERWISE NECESSARY TO THE PROJECT, AND/OR OTHERWISE ADDS VALUE OR BETTERMENT TO THE PROJECT.

   IF THE DOCUMENTS CONTAIN A CONFLICT REGARDING QUALITY OR QUANTITY, THE CONTRACTOR SHALL INCLUDE IN THE BID, AND WORK, THE GREATER QUANTITY AND/OR HIGHER QUALITY.

   IN NO EVENT WILL THE ARCHITECT BE RESPONSIBLE FOR ANY COST OR EXPENSE THAT PROVIDES BETTERMENT, UPGRADE OR ENHANCEMENT OF THE PROJECT.

   ON-SITE & EXISTING CONDITIONS VERIFICATION:

   THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID TO REVIEW THE PROJECT WITH THE OWNER AND TO BECOME FAMILIAR WITH EXISTING CONDITIONS.

   THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCING THE WORK. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

7. **WARRANTY AND GUARANTEE**

   ALL WORK SHALL BE PERFORMED TO THE HIGHEST INDUSTRY STANDARDS FOR QUALITY WORKMANSHIP. ALL MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MATERIALS AND METHODS SHALL CONFORM TO APPROPRIATE NATIONAL TRADE PUBLICATIONS.

   CONTRACTOR SHALL GUARANTEE THAT ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE (1) YEAR FOLLOWING SUBSTANTIAL COMPLETION OF ALL WORK AND THAT ALL DEFECTS ARISING WITHIN THIS PERIOD OF TIME SHALL BE CORRECTED, REPAIRED OR REPLACED WITHIN 30 DAYS OF NOTIFICATION OF SUCH DEFECTS BY OWNER OR ARCHITECT. ADDITIONAL WARRANTY AND GUARANTEES REQUIRED BEYOND ONE (1) YEAR MAY BE REQUIRED; REFER TO ADDITIONAL SPECIFICATION SECTIONS FOR ADDITIONAL WARRANTY REQUIREMENTS.

   INSTALL WORK DURING TIME PERIODS AND CONDITIONS WHICH WILL ENSURE BEST POSSIBLE RESULTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH REQUIRED INSPECTIONS AND TESTING.

8. **MANUFACTURER'S PRODUCTS AND FABRICATIONS**

   ALL MANUFACTURER'S AND FABRICATOR'S PRINTED WARNING FOR HANDLING OF THEIR PRODUCTS MUST BE STRICTLY OBSERVED. ALSO AS PER LOCAL CODES AND OTHER REQUIREMENTS.

   ALL MATERIALS TO BE INSTALLED SHALL BE NEW AND BEAR U.L. LABELS WHERE REQUIRED AND MEET APPROPRIATE N.E.M.A. STANDARDS.

   ALL PRODUCTS AND MATERIALS MUST BE PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. IN THE EVENT OF CONFLICT BETWEEN THE DRAWINGS OR THE SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS, THE MOST DETAILED, OR STRINGENT REQUIREMENTS SUPERSEDE. NOTIFY THE ARCHITECT AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

9. **SUBSTITUTIONS:**

   THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND MATERIALS OF NEW, AND FIRST QUALITY, AS SPECIFIED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. CONTRACTOR MAY SUBSTITUTE MATERIALS WHICH ARE SIMILAR IN CHARACTERISTICS AND PERFORMANCE ONLY IF THEY CONFORM TO THE CURRENT EDITION OF THE RESIDENTIAL CODE OF OHIO. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY SUBSTITUTIONS ARE SUITABLE FOR THE INTENDED USE AND COMPATIBLE WITH OTHER MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, MODIFICATIONS AND CHANGES WHICH MAY BE AFFECTED BY THE SUBSTITUTIONS.

10. **CONSTRUCTION MATERIALS**

    ALL MATERIALS SHALL BE STORED ON THE SITE AS DIRECTED BY THE OWNER.

    ISOLATE NON-COMPATIBLE MATERIALS FROM CONTACT SUFFICIENTLY TO PREVENT DETERIORATION.

    ANCHOR WORK SECURELY IN PLACE, PROPERLY LOCATED BY MEASURED LINE AND LEVEL, ORGANIZED FOR BEST POSSIBLE UNIFORMITY, VISUAL AESTHETIC, OPERATIONAL EFFICIENCY, DURABILITY AND SIMILAR BENEFIT TO OWNER'S USE.

    WHERE REQUIRED TO MATCH EXISTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

11. **CONSTRUCTION RATINGS**

    WOOD BLOCKING IN RATED EXTERIOR WALLS, FIRE WALLS, PARTITIONS, BARRIERS, OR OTHER SYSTEMS SHALL BE FIRE-RETARDANT TREATED.

    PROVIDE UL APPROVED SEALANT, SLEEVES, OR OTHER APPROVED SYSTEMS AT ELECTRICAL, PLUMBING AND MECHANICAL PENETRATIONS OF RATED CONSTRUCTION. CONTRACTOR SHALL SUBMIT DETAILS AND PRODUCT DATA TO ARCHITECT AND CITY FOR APPROVAL.

12. **SAFETY**

    THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, BRACING, AND EXTERIOR LOAD BEARING WALLS ARE COMPLETE AND HAVE ACHIEVED DESIGN STRENGTH. THE CONTRACTOR IS SOLELY RESPONSIBLE TO MAINTAIN STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.

13. **LIABILITY INSURANCE**

    THE CONTRACTOR SHALL CARRY FOR THIS PROJECT CONTRACTORS PUBLIC LIABILITY INSURANCE (INCLUDING PRODUCT AND COMPLETED OPERATIONS) IN THE AMOUNT OF NOT LESS THAN $500,000 PER OCCURRENCE OF BODILY INJURY AND NOT LESS THAN $1,000,000 PER OCCURRENCE FOR PROPERTY DAMAGE.

14. **PROTECTION**

    PRECAUTIONS SHALL BE TAKEN TO PROTECT THE GROUNDS, PLANTINGS, DRIVE, ETC FROM ANY DAMAGE. DAMAGE INCURRED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING AT THE CONTRACTOR'S EXPENSE. COMPLY WITH SPECIAL WORKING CONDITIONS RELATING TO THE PROJECT, INCLUDING BUT NOT LIMITED TO REQUIREMENTS FOR TEMPORARY PROTECTION, TRASH MANAGEMENT, NOISE, LIGHT, DUST AND POLLUTION CONTROL, AND LIMITATIONS ON WORKING HOURS.

15. **CLEANING**

    AT THE COMPLETION OF EACH INSTALLATION AND COMPLETION OF THE PROJECT THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL WORK, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

    a. REMOVAL OF MORTAR SPLATTERS OR STAINS FROM ALL INTERIOR AND EXTERIOR FINISHES
    b. REMOVAL OF MASONRY WATERPROOFING ABOVE FINISH GRADE
    c. REMOVAL OR ANY SPLATTERS OR STAINS FROM EXTERIOR SIDING, ROOFING, OR OTHER EXTERIOR MATERIALS
    d. REMOVAL OF ALL STAINS FROM ALL EXPOSED CONCRETE WORK, WITH EXCEPTION OF CRAWL SPACE CONCRETE.
    e. REMOVAL OF STAINS AND CLEANING OF ALL INTERIOR FINISHES (COUNTERTOPS, PLUMBING FIXTURES, FLOORING, ETC.)
    f. THOROUGH CLEANING OF FAUCET SCREENS AND PLUMBING TRAPS
    g. VACUUMING OF ALL FLOORS, FOLLOWED BY WET MOPPING OF ALL HARD SURFACE FLOORS
    h. DUSTING OF ALL WALLS, CEILINGS, TRIMS, DOORS, WINDOWS, CABINETS, ETC., INCLUDING THE INTERIOR SURFACES OF ALL CABINETS
    i. REMOVAL OF ALL WINDOW AND DOOR STICKERS, INCLUDING GLUE RESIDUE, PAINT OR STAIN OVERLAPPING ON GLASS AND OTHER GLASS SPATTERS
    j. POLISHING OF ALL WINDOWS, MIRRORS OR SURFACES WITH REFLECTIVE OR TRANSPARENT QUALITIES.
    k. ADDITIONALLY, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, INCLUDING VACUUMING, OF ALL CONSTRUCTION, OR OTHER DEBRIS, FROM JOIST, RAFTER, STUD, OR OTHER CAVITIES, PRIOR TO GYPSUM BOARD, INSULATION, FINISH FLOORING OR SURFACING.

16. **CONSTRUCTION DEBRIS**

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DIRT AND DEBRIS FROM THE EXCAVATION, DEMOLITION AND CONSTRUCTION AS REQUIRED.

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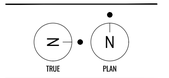
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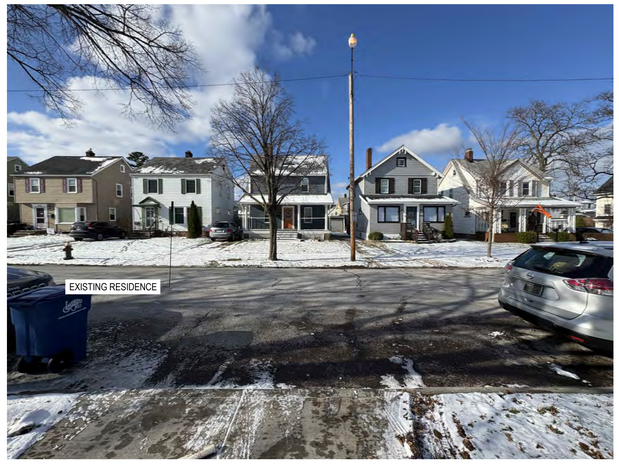
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EXISTING GARAGE

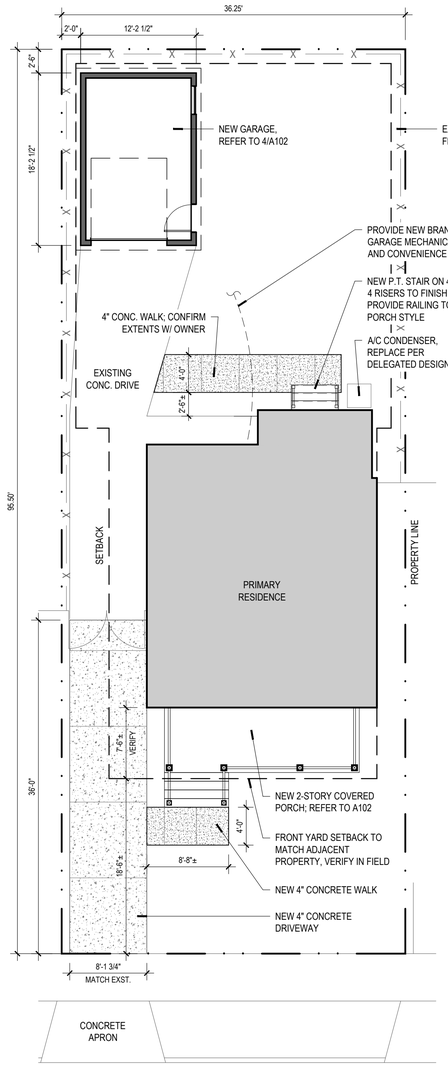


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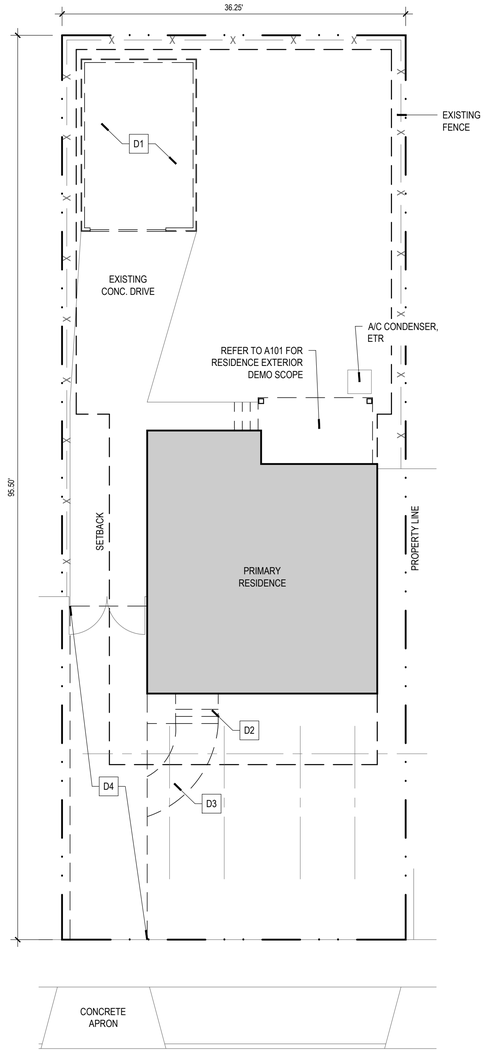


EXISTING FRONT ELEVATION W/ NEIGHBORING PORCH

03 EXISTING PHOTOGRAPHS



02 OVERALL SITE PLAN
1/8"=1'-0"



01 SITE DEMO PLAN
1/8"=1'-0"

GENERAL DEMO NOTES

1. REFER TO SPECIFICATIONS FOR GENERAL DEMOLITION REQUIREMENTS

DEMO KEY NOTES

- D1 DEMO GARAGE COMPLETE; SALVAGE SLAB, FOUNDATION AND STEM WALLS
- D2 DEMO MASONRY STOOP AND STAIRS
- D3 DEMO CONCRETE WALK
- D4 DEMO CONCRETE DRIVEWAY

GENERAL SITE NOTES

1. OWNER RESPONSIBLE FOR LANDSCAPING - SUCH AS LAWN, TREES, SHRUBS, ETC.
2. ALL EXTERIOR CONCRETE WALKWAYS SHALL BE MIN. 3,500PSI 4" THICK CONCRETE W/ 6X6 W2.9X2.9 WWF OVER 4" COMPACTED SUB BASE, U.N.O.
3. MINIMIZE EXCAVATION LIMITS TO CONTROL SITE DISTURBANCE.
4. SITE SURVEY TO VERIFY PIN LOCATIONS AND HOME LOCATION PRIOR TO EXCAVATION. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. ALL FINISH GRADES SHALL BE SMOOTH AND UNIFORM.

GENERAL STAIR AND RAILING NOTES

1. STAIRWAYS SHALL HAVE A MIN. WIDTH OF 34". HAND RAILS MAY ENCROACH A MAX. OF 3 1/2" INTO THE REQUIRED WIDTH.
2. TREADS SHALL HAVE A MIN. WIDTH OF 10". STAIR TREADS MUST BE UNIFORM AND CAN NOT VARY FROM THE LARGEST TO THE SMALLEST BY MORE THAN 3/8".
3. STAIRWAYS SHALL HAVE MIN. 6'-8" OF HEADROOM AT THE NOSE OF THE STAIR.
4. ENCLOSED USABLE SPACE UNDER INTERIOR STAIRS SHALL BE PROTECTED ON THE ENCLOSED FACE WITH 5/8" TYPE "X" GYPSUM WALL BOARD.
5. STAIRWAYS SHALL HAVE AT LEAST ONE HANDRAIL LOCATED 36" ABOVE THE NOSING OF TREADS AND LANDINGS. THE HAND GRIP PORTION OF HANDRAILS SHALL NOT BE LESS THAN 1-1/2" OR GREATER THAN 2" IN CROSS-SECTIONAL DIMENSION. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. THE ENDS OF HANDRAILS SHALL RETURN TO WALL OR TERMINATE INTO A NEWEL POST OR SAFETY TERMINAL.
6. STAIRWAYS HAVING LESS THAN 2 RISERS DO NOT REQUIRE A HAND RAIL.
7. GUARDRAILS SHALL BE PROVIDED AT PORCHES, DECKS, BALCONIES, STAIRWAYS AND LANDINGS WHERE THE ADJACENT SURFACE IS GREATER THAN 24" BELOW AND SHALL HAVE A 34" MIN. HEIGHT.
8. RAILING AND GUARDRAIL BALUSTER SPACING SHALL BE NO GREATER THAN 4".
9. THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD, AND BOTTOM OF GUARDRAIL SHALL NOT ALLOW A 6" DIAMETER SPHERE TO PASS THROUGH.

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TRUE N PLAN

ARCHITECTURAL SITE DEMOLITION + SITE PLAN

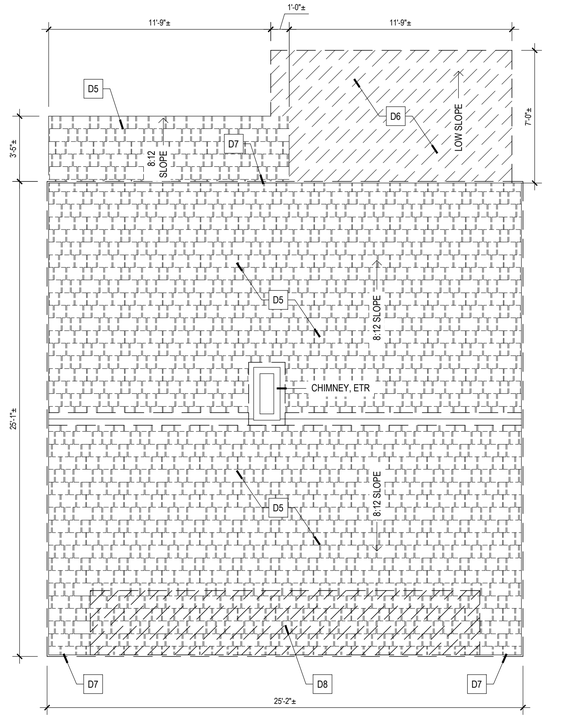
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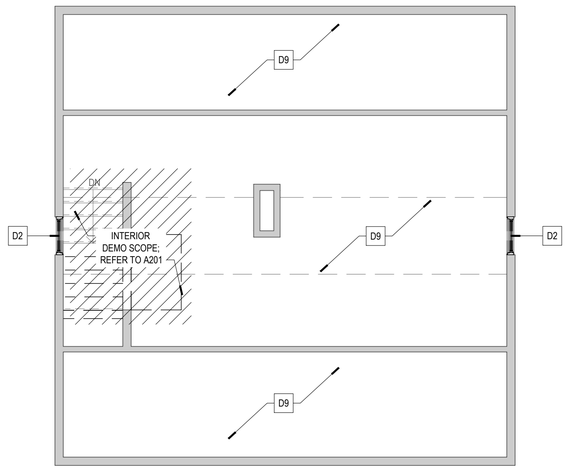
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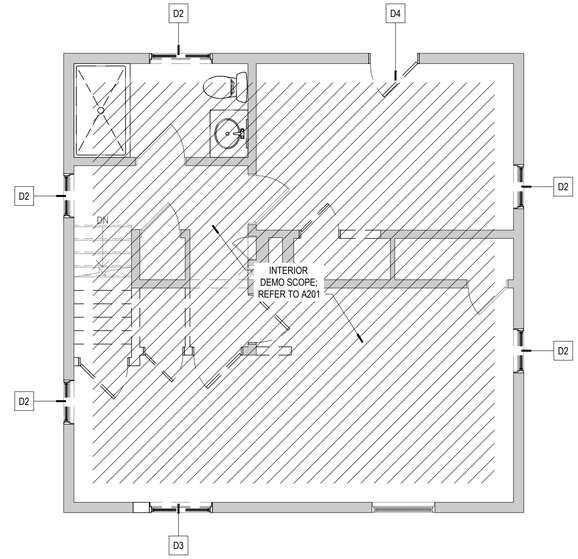
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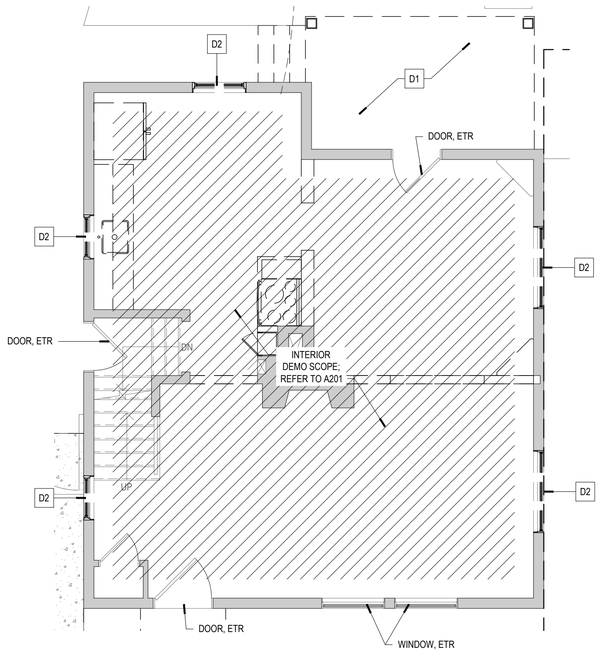
04 ROOF DEMO PLAN
1/4"=1'-0"



03 ATTIC DEMO PLAN
1/4"=1'-0"



02 SECOND FLOOR DEMO PLAN
1/4"=1'-0"



01 FIRST FLOOR DEMO PLAN
1/4"=1'-0"

GENERAL DEMO NOTES

1. COMPLY WITH ALL APPLICABLE CODES AND SAFETY REGULATIONS.
2. OBTAIN NECESSARY PERMITS FOR DEMOLITION AND UTILITY WORK.
3. RECORD ACTUAL LOCATIONS OF CAPPED AND ACTIVE UTILITIES AND SUBSURFACE CONSTRUCTION IN PROJECT DOCUMENTS.
4. EMPLOY A DEMOLITION CONTRACTOR SPECIALIZING IN THE REQUIRED WORK.
5. ADHERE TO GOVERNING EPA NOTIFICATION REGULATIONS.
6. REMOVE ENTIRE BUILDINGS OR SPECIFIED PORTIONS AS INDICATED ON DRAWINGS.
7. REMOVE PAVING, CURBS, AND UNDERGROUND TANKS AS REQUIRED FOR NEW WORK.
8. ENSURE NO UNPLANNED DISRUPTION OF UTILITIES OR SERVICES.
9. COORDINATE WITH UTILITY PROVIDERS AND FOLLOW THEIR GUIDELINES.
10. PROTECT AND MARK UTILITIES TO REMAIN, ENSURING MINIMAL DISRUPTION.
11. DISCONNECT AND CAP UTILITIES OUTSIDE THE DEMOLITION ZONE AS REQUIRED.
12. REMOVE SPECIFIED ITEMS FOR SALVAGE, RELOCATION, AND RECYCLING.
13. FILL EXCAVATIONS, PITS, AND HOLES WITH SPECIFIED FILL, COMPACTED AS REQUIRED.
14. CONDUCT AN ENGINEERING SURVEY TO EVALUATE STRUCTURAL INTEGRITY DURING DEMOLITION.
15. VERIFY CONSTRUCTION AND UTILITY ARRANGEMENTS; REPORT DISCREPANCIES TO THE ARCHITECT.
16. SEPARATE ALTERATION AREAS FROM OCCUPIED ZONES USING DUSTPROOF PARTITIONS.
17. MAINTAIN WEATHERPROOF EXTERIOR ENCLOSURES; ENSURE NO WATER OR HUMIDITY DAMAGE.
18. REMOVE, RELOCATE, OR ADAPT EXISTING WORK AS NEEDED FOR NEW CONSTRUCTION.
19. PROTECT ACTIVE SYSTEMS AND ENSURE UNINTERRUPTED OPERATION DURING ALTERATIONS.
20. SALVAGE OR RECYCLE MATERIALS AND REMOVE DEBRIS OFF-SITE.
21. PERFORM CUTTING AND PATCHING TO:
    - A. COMPLETE WORK.
    - B. CREATE OPENINGS FOR MECHANICAL, ELECTRICAL, OR OTHER SERVICES.
    - C. REPAIR AND RESTORE AFFECTED AREAS TO ORIGINAL OR SPECIFIED CONDITIONS.
    - D. USE SKILLED WORKERS FOR CRITICAL CUTTING AND PATCHING TASKS.
    - E. SEAL PENETRATIONS IN FIRE-RATED ELEMENTS WITH APPROVED MATERIALS TO MAINTAIN FIRE RATING.
22. PROVIDE TEMPORARY BARRIERS AND MAINTAIN ACCESS FOR PUBLIC AND PRIVATE USE.
23. PROTECT EXISTING STRUCTURES AND FEATURES NOT SLATED FOR REMOVAL.
24. MINIMIZE DUST AND DEBRIS; RECYCLE MATERIALS WHENEVER POSSIBLE.
25. REFER TO MECHANICAL AND ELECTRICAL SPECIFICATIONS FOR FURTHER REQUIREMENTS.
26. REMOVE ALL DEMOLITION DEBRIS, TRASH, AND JUNK FROM THE SITE.
27. CLEAN THE SITE TO A CONDITION READY FOR SUBSEQUENT WORK.
28. ADDRESS ANY SPILLAGE OR WIND-BLOWN DEBRIS FROM THE AREA.

DEMO KEY NOTES

D1	DEMO PORCH SLAB, POSTS, CONCRETE STAIRS, AND ALUMINUM SOFFIT CEILING; COORDINATE DEMOLITION WITH NEW WORK AND SHORE STRUCTURAL ELEMENTS. ROOF FRAMING SHALL BE SALVAGED.
D2	DEMO WINDOW AND PREP FOR REPLACEMENT WINDOW
D3	DEMO WINDOW AND FRAMING TO ALLOW FOR NEW DOOR; COORDINATE DIMENSION WITH NEW WORK.
D4	DEMO DOOR AND FRAME; CUT AND PATCH DAMAGED FLOOR SHEATHING.
D5	DEMO ROOF SHINGLES, RIDGE CAP, FLASHINGS, DRIP CAPS, AND UNDERLAYMENTS; CUT AND PATCH WATER DAMAGED ROOF SHEATHING WHERE INTEGRITY IS COMPROMISED.
D6	DEMO BITUMINOUS ROOFING AND FLASHINGS TO SUBSTRATE
D7	DEMO FASCIA AND CUT VENTILATION STRIP IN SUBFASCIA; COORDINATE WITH NEW FASCIA DETAIL
D8	COORDINATE DEMOLITION OF SHEATHING TO TIE IN NEW PORCH ROOFING
D9	DEMO RAFTER BAY INSULATION

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TRUE PLAN

DEMOLITION PLANS - EXTERIOR SCOPE

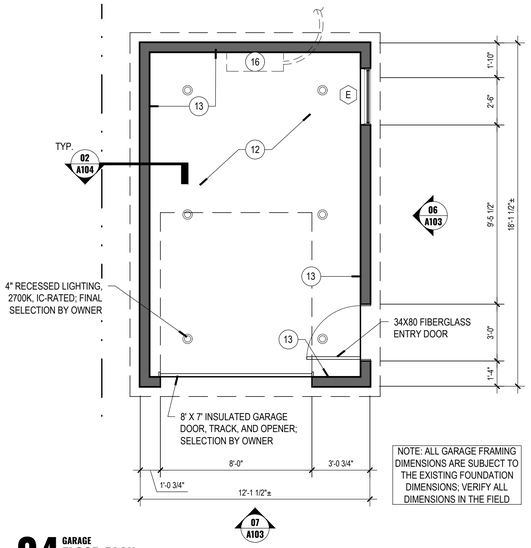
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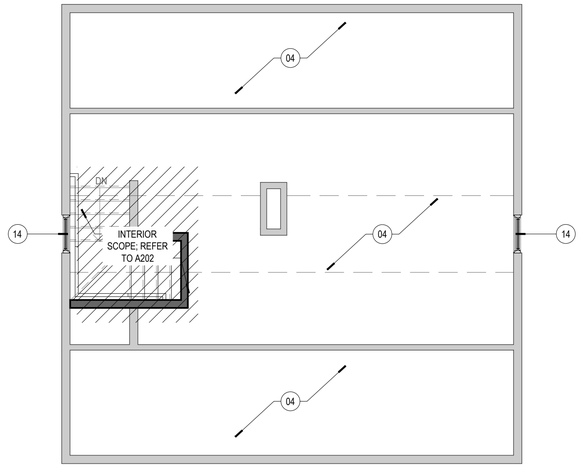
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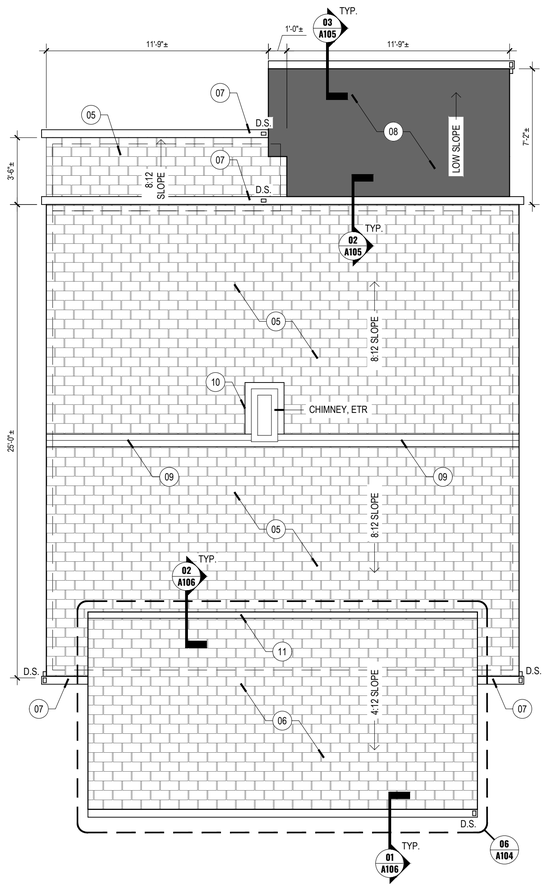


NOTE: ALL GARAGE FRAMING DIMENSIONS ARE SUBJECT TO THE EXISTING FOUNDATION DIMENSIONS; VERIFY ALL DIMENSIONS IN THE FIELD

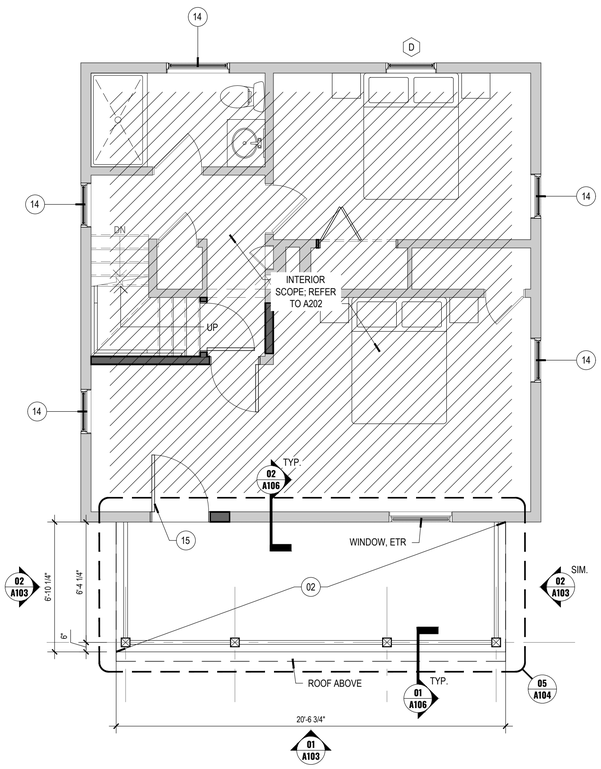
04 GARAGE FLOOR PLAN
1/4"=1'-0"



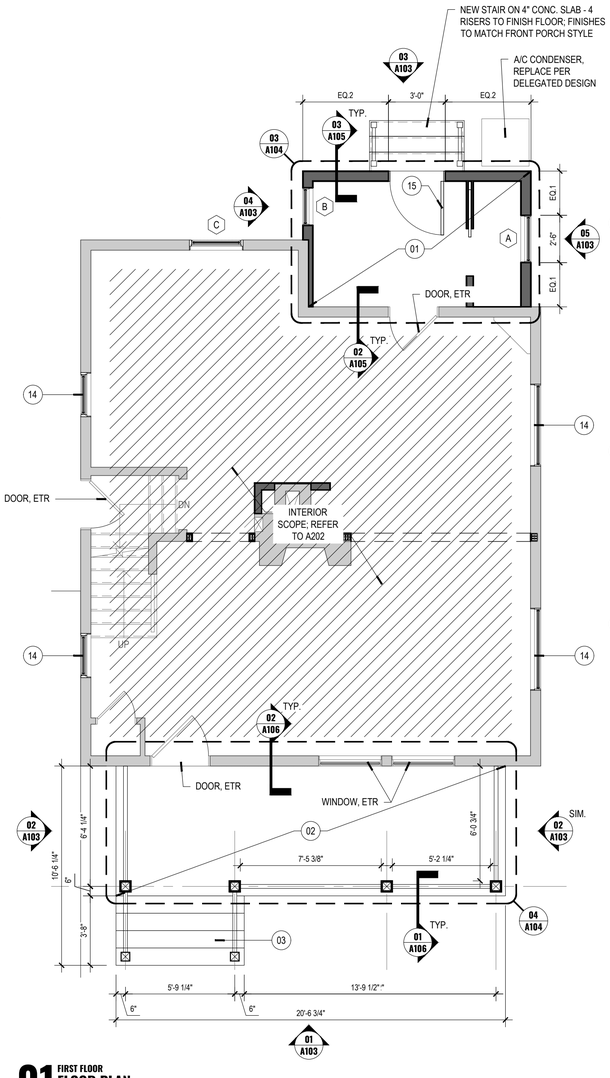
2A ATTIC FLOOR PLAN
1/4"=1'-0"



03 ROOF PLAN
1/4"=1'-0"



02 SECOND FLOOR FLOOR PLAN
1/4"=1'-0"



01 FIRST FLOOR FLOOR PLAN
1/4"=1'-0"

GENERAL NOTES

1. ALL WALLS ARE DIMENSIONED FACE OF FRAMING TO FACE OF FRAMING. ALL MASONRY AND MASONRY VENEER IS DIMENSIONED TO FINISH FACE OF THE MASONRY.
2. CONTRACTOR TO COORDINATE ROUGH OPENING DIMENSIONS WITH WINDOW AND DOOR SCHEDULES. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT AND COORDINATE MANUF. RECOMMENDED OPENINGS PRIOR TO FRAMING / ORDERING WINDOWS AND DOORS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND IS RESPONSIBLE FOR ALL DIMENSIONS.
4. ROOF SHEATHING SHALL BE 15/32" OSB OR 1/2" PLYWOOD 32/16 APA RATED W/ 8d @ 6" O/C ALL SUPPORTED PANEL EDGES, 12" O/C FIELD
5. ALL EXTERIOR WALLS SHALL BE 2X6 FRAMING @ 16" O.C. W/ R-21 UNFACED FIBERGLASS BATTS, PROVIDE 1/2" INTERIOR DRYWALL, U.N.O.

GENERAL STAIR AND RAILING NOTES

1. STAIRWAYS SHALL HAVE A MIN. WIDTH OF 34". HAND RAILS MAY ENCROACH A MAX. OF 3 1/2" INTO THE REQUIRED WIDTH.
2. TREADS SHALL HAVE A MIN. WIDTH OF 10". STAIR TREADS MUST BE UNIFORM AND CAN NOT VARY FROM THE LARGEST TO THE SMALLEST BY MORE THAN 3/8".
3. STAIRWAYS SHALL HAVE MIN. 6'-8" OF HEADROOM AT THE NOSE OF THE STAIR.
4. ENCLOSED USABLE SPACE UNDER INTERIOR STAIRS SHALL BE PROTECTED ON THE ENCLOSED FACE WITH 5/8" TYPE "X" GYPSUM WALL BOARD.
5. STAIRWAYS SHALL HAVE AT LEAST ONE HANDRAIL LOCATED 36" ABOVE THE NOSING OF TREADS AND LANDINGS. THE HAND GRIP PORTION OF HANDRAILS SHALL NOT BE LESS THAN 1-1/2" OR GREATER THAN 2" IN CROSS-SECTIONAL DIMENSION. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. THE ENDS OF HANDRAILS SHALL RETURN TO WALL OR TERMINATE INTO A NEWEL POST OR SAFETY TERMINAL.
6. STAIRWAYS HAVING LESS THAN 2 RISERS DO NOT REQUIRE A HAND RAIL.
7. GUARDRAILS SHALL BE PROVIDED AT PORCHES, DECKS, BALCONIES, STAIRWAYS AND LANDINGS WHERE THE ADJACENT SURFACE IS GREATER THAN 24" BELOW AND SHALL HAVE A 34" MIN. HEIGHT.
8. RAILING AND GUARDRAIL BALUSTER SPACING SHALL BE NO GREATER THAN 4".
9. THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD, AND BOTTOM OF GUARDRAIL SHALL NOT ALLOW A 6" DIAMETER SPHERE TO PASS THROUGH.

EXTERIOR KEY NOTES

01	NEW FLOOR AND WALL FRAMING
02	NEW 2-STORY PORCH; COMPOSITE DECKING, PAINTED RAILINGS, AND PAINTED COLUMNS
03	NEW STAIRS - 4 RISERS; COMPOSITE TREADS, PAINTED RAILINGS AND RISERS.
04	THROUGH-OUT ATTIC, PROVIDE MIN. 2" CLOSED CELL SPRAY FOAM INSULATION TIGHT TO DECK BETWEEN RAFTER BAYS, PROVIDE R-13 UN-FACED FIBERGLASS BATTS TO INTERIOR SIDE OF CAVITY, FINISH WITH 1/2" DRYWALL THROUGHOUT.
ALT.1 04	THROUGH-OUT ATTIC, PROVIDE MIN. 1" VENT BAFFLE FULL LENGTH OF RAFTER CAVITY, FROM EAVE TO RIDGE; PROVIDE R-19 UN-FACED FIBERGLASS BATTS TO INTERIOR SIDE OF CAVITY, FINISH WITH 1/2" DRYWALL THROUGHOUT.
05	NEW 30 YEAR ARCHITECTURAL SHINGLE, COLOR TO MATCH EXISTING; ON SYNTHETIC ROOFING FELTS; ON ICE AND WATER SHIELD AT EAVES; ON EXISTING ROOF SHEATHING. NOTE: REPLACE ROOF SHEATHING WHERE WATER DAMAGE COMPROMISED STRUCTURAL INTEGRITY.
06	30 YEAR ARCHITECTURAL SHINGLE, COLOR TO MATCH EXISTING; ON ICE AND WATER SHIELD; ON ROOF SHEATHING; ON 2X6 RAFTER @ 16" O.C.; REPLACE RAKE FLASHINGS AND FASCIA CAPS WHERE DAMAGED
07	WHERE DAMAGED, REPLACE FASCIA CAP, GUTTER AND DOWNSPOUTS TO MATCH EXISTING
ALT.1 07	NEW FASCIA CAP W/ INTEGRAL "FASCIA VENT"; CUT EXISTING SUB-FASCIA TO ALLOW MIN. 1" AIR FLOW THROUGH RAFTER CAVITY; REPLACE GUTTER AND DOWNSPOUTS TO MATCH EXISTING WHERE DAMAGED.
08	EPDM ADHERED ROOFING; ON 4" FOIL FACED POLYISO RIGID INSULATION MECHANICALLY FASTENED; ON ICE AND WATER SHEILD; ON EXISTING SHEATHING AND FRAMING. EXTEND RAFTERS W/ SISTERED JOISTS OF EQUIVALENT DEPTH AS NECESSARY; FILL CEILING JOIST CAVITY WITH MIN. R-30 UNFACED FIBERGLASS BATTS. FINISH INTERIOR CEILING W/ 1/2" GYP. BOARD.
09	RIDGE CAP SHINGLES, UNVENTED
ALT.1 09	RIDGE CAP SHINGLES AND RIDGE VENT; CUT MIN. 1" VENTILATION STRIP, BOTH SIDES OF RIDGE, IN EXISTING ROOF SHEATHING.
10	PROVIDE NEW STEP FLASHINGS AT CHIMNEY BASE; TUCKPOINT CHIMNEY MORTAR WHERE DAMAGED.
11	PROVIDE FLASHING @ ROOF TRANSITION
12	EXISTING CONCRETE SLAB AND THICKENED EDGE FOUNDATION; VERIFY DIMENSION AND STRUCTURAL INTEGRITY IN THE FIELD
13	GARAGE INTERIOR SHALL BE FINISH WITH 1/2" MOISTURE RESISTANT GYP BOARD AND ACRYLIC PAINT; COLOR SELECTION BY OWNER. COORD. MECHANICAL AND ELECTRICAL WITH DELEGATED DESIGN BY OWNER'S CONTRACTOR.
14	REPLACE WINDOW TO MATCH EXISTING DIMENSIONS
15	NEW 34X80 EXTERIOR DOOR
16	CONSOLE AIR CONDITIONER/HEAT PUMP - SINGLE ZONE

HANEY RESIDENCE

2230 BROWN ROAD, LAKEWOOD, OHIO 44107

RESIDENTIAL ALTERATION
NO. 24-1016

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ISSUE	DATE
CLIENT REVIEW	12-13-2024
CLIENT REVIEW	12-20-2024
BIDDING	01-13-2025

TRUE N PLAN

FLOOR PLANS - EXTERIOR SCOPE

TITLE

A102

DISCIPLINE + NUMBER

DIALOGUE
PO 1953, E. 101st Street
Cleveland, Ohio 44106
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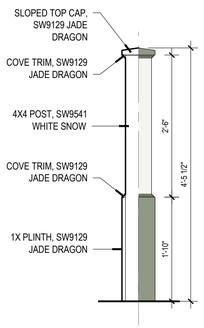
ANSI D 22X34 2025-01-15

WINDOW SCHEDULE (A)

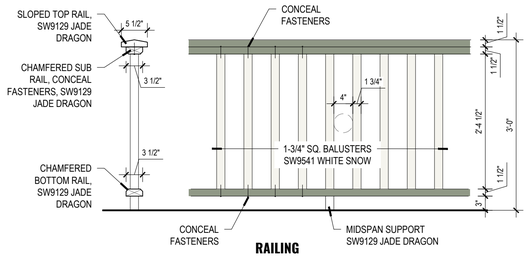
#	WINDOW TYPE				SIZE		REMARKS
	OPERATION	TYPE	MODEL	MANUF	WIDTH	HEIGHT	
A	DBL HUNG	WD. CLAD	ELEVATE	MARVIN	2'-6"	3'-4"	FROSTED GLAZING, BOTTOM PANE
B	FIXED	WD. CLAD	ELEVATE	MARVIN	2'-2"	3'-0"	
C	DBL HUNG	WD. CLAD	ELEVATE	MARVIN	3'-0"	3'-0"	
D	DBL HUNG	WD. CLAD	ELEVATE	MARVIN	2'-8"	3'-0"	
E	DBL HUNG	VINYL	ELEVATE	MARVIN	2'-6"	3'-4"	

WINDOWS AND GLAZING

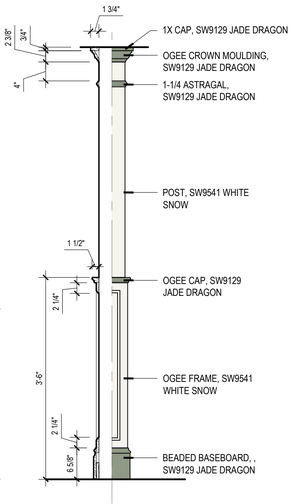
1. ALL WINDOWS NOT INDICATED TO BE REPLACED OR NEW SHALL BE EXISTING TO REMAIN. REPLACEMENT WINDOWS ARE NOT TAGGED AND SHALL BE REPLACED IN KIND (I.E. COLOR, MUTTONS, SIZE)
2. ALL WINDOWS SHALL BE MARVIN ELEVATE SERIES, OR EQUIV.
3. WINDOW HEAD HEIGHTS SHALL MATCH EXISTING / DOOR HEAD HEIGHTS (± 80" A.F.F.)
4. WINDOW ROUGH OPENING: FRAME DIMENSION + 1/2" FOR TOP AND BOTTOM & 1/2" FOR EA. SIDE, UNO BY MFG
5. ALL EXTERIOR WINDOWS SHALL BE 1" INSULATED GLASS W/ LOW-E COATING
6. GLAZING SHALL BE TEMPERED (CATEGORY CLASS 2) IN THE FOLLOWING LOCATIONS:
   a. ALL GLAZING WITHIN 6' OF HOT TUBS, WHIRLPOOL, SAUNAS, STEAM ROOMS, BATHTUB AND SHOWERS.
   b. EXPOSED AREA OF INDIVIDUAL PANE IS GREATER THEN 9 SQ FT
   c. BOTTOM EDGE IS LESS THAN 18" A.F.F. AND TOP EDGE IS GREATER THAN 36" A.F.F.
   d. ONE OR MORE WALKING SURFACES WITH 36" OF GLAZING
   e. GLAZING IN SWINGING DOORS AND SLIDING DOORS
   f. ALL RAILING GLASS PANELS



NEWEL POST



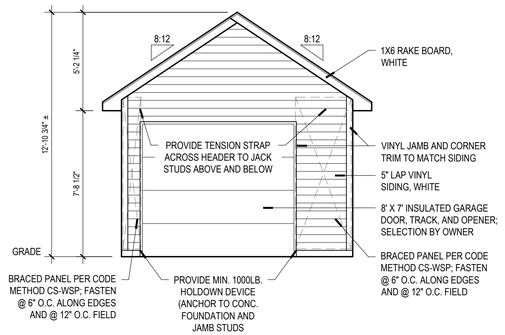
RAILING



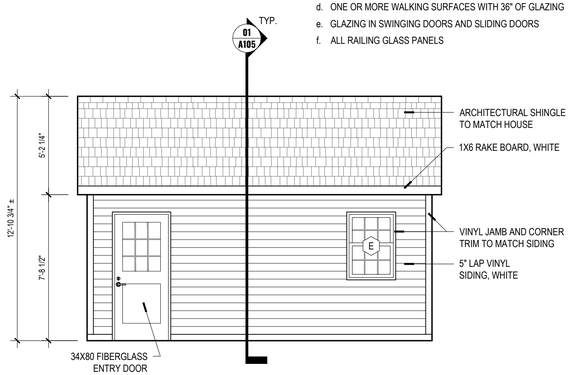
POST

GARAGE
ELEVATIONS
1/4"=1'-0"

ALL ELEMENTS SHALL BE PAINTED



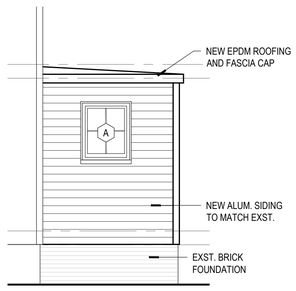
EAST



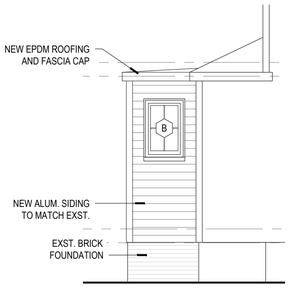
NORTH

GARAGE
ELEVATIONS
1/4"=1'-0"

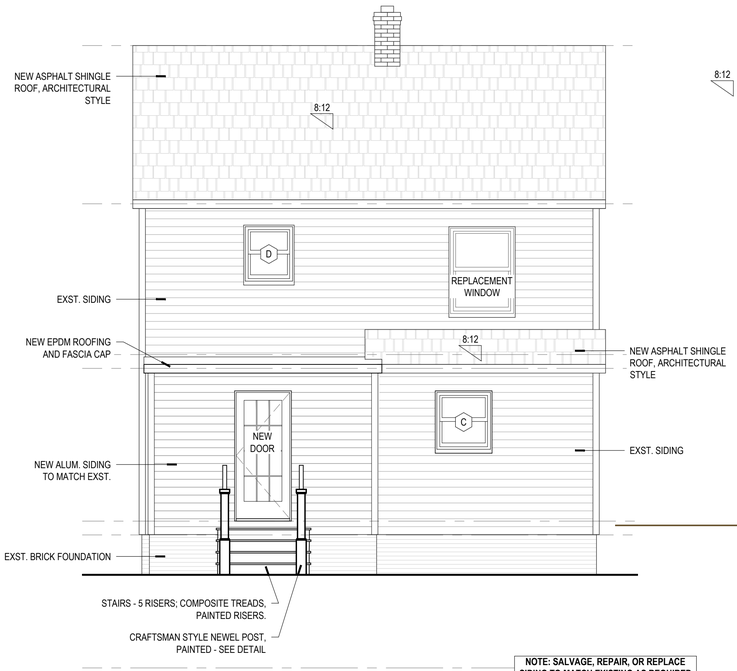
GARAGE
ELEVATIONS
1/4"=1'-0"



PARTIAL
EXTERIOR ELEVATION - NORTH
1/4"=1'-0"

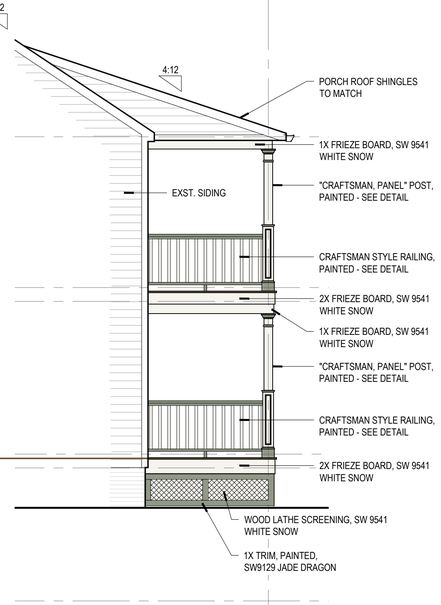


PARTIAL
EXTERIOR ELEVATION - SOUTH
1/4"=1'-0"

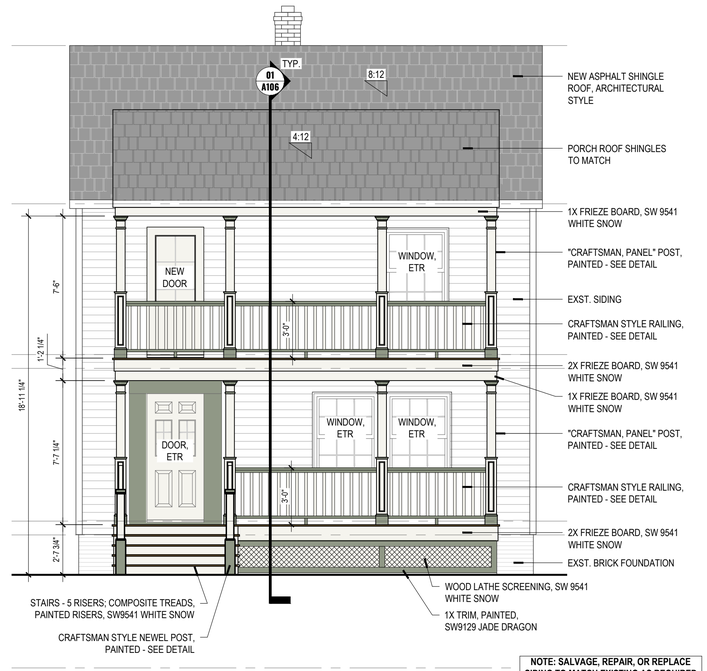


NOTE: SALVAGE, REPAIR, OR REPLACE SIDING TO MATCH EXISTING AS REQUIRED THROUGHOUT THE EXTERIOR SCOPE OF WORK. THOROUGHLY CLEAN ALL SIDING UPON COMPLETION.

REAR
EXTERIOR ELEVATION - WEST
1/4"=1'-0"



PORCH
EXTERIOR ELEVATION - SOUTH
1/4"=1'-0"



NOTE: SALVAGE, REPAIR, OR REPLACE SIDING TO MATCH EXISTING AS REQUIRED THROUGHOUT THE EXTERIOR SCOPE OF WORK. THOROUGHLY CLEAN ALL SIDING UPON COMPLETION.

FRONT
EXTERIOR ELEVATION - EAST
1/4"=1'-0"

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TRUE PLAN

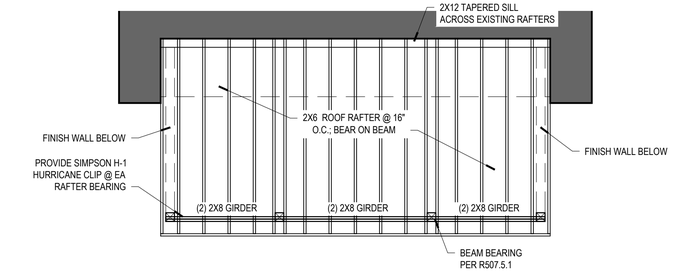
EXTERIOR ELEVATIONS

TITLE

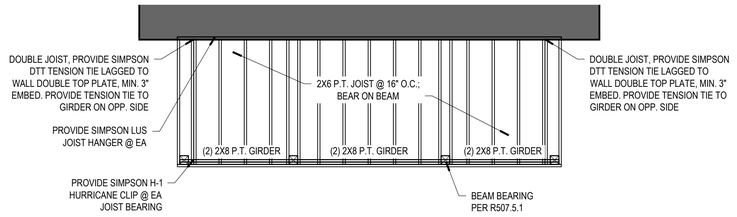
DISCIPLINE • NUMBER

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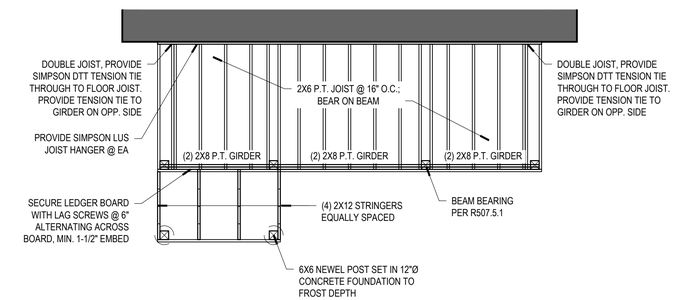
ANSI D 22X34 2025-01-15



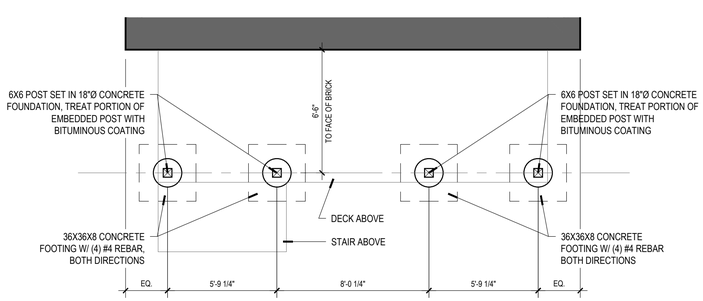
06 ROOF PORCH FRAMING PLAN
1/4"=1'-0"



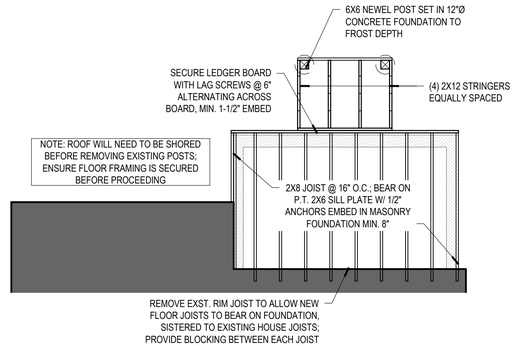
05 SECOND FLOOR PORCH FRAMING PLAN
1/4"=1'-0"



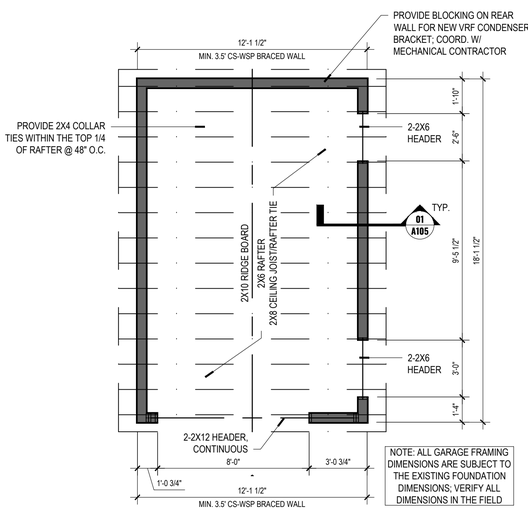
04 FIRST FLOOR PORCH FRAMING PLAN
1/4"=1'-0"



03 PORCH FOUNDATION PLAN
1/4"=1'-0"



02 REAR BATHROOM FRAMING PLAN
1/4"=1'-0"



01 GARAGE FRAMING PLAN
1/4"=1'-0"

STUD WALL HEADER SCHEDULE

USE THIS SCHEDULE FOR ALL HEADERS AND LINTELS NOT CALLED OUT ON PLAN.

BEARING WALLS			
ROUGH OPENING	HEADER	JACK STUDS	KING STUDS
UP TO 3'-0"	2 - 2X6	1 EA. END	1 EA. END
OVER 3'-0" TO 4'-0"	2 - 2X8	1 EA. END	1 EA. END
OVER 4'-0" TO 5'-0"	2 - 2X10	2 EA. END	2 EA. END
OVER 5'-0" TO 6'-0"	2 - 2X12	2 EA. END	2 EA. END
NON-BEARING WALLS			
ROUGH OPENING	HEADER	JACK STUDS	KING STUDS
UP TO 4'-0"	2 - 2X6	1 EA. END	1 EA. END
OVER 4'-0" TO 6'-0"	2 - 2X8	1 EA. END	1 EA. END
OVER 6'-0" TO 8'-0"	2 - 2X10	2 EA. END	2 EA. END
OVER 8'-0" TO 10'-0"	2 - 2X12	2 EA. END	2 EA. END

GENERAL FOUNDATION NOTES

1. FOUNDATIONS MUST BEAR A MINIMUM OF 42" BELOW FINISH GRADE.
2. ANCHOR BOLTS: ALL ANCHOR BOLTS TO BE 1/2" DIAMETER X 10" AT 42" O.C., UNLESS NOTED OTHERWISE (UNO).
3. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A-615, GRADE 60.
4. OVERLAP ALL REINFORCING STEEL A MINIMUM OF 24" FOR SPLICES.
5. PROVIDE CORNER BARS MATCHING CONTINUOUS STEEL SPECIFICATIONS.
6. CONCRETE
   - 6.1. MINIMUM ALLOWABLE COMPRESSIVE STRENGTH: 3000 PSI AT 26 DAYS.
   - 6.2. MAXIMUM AGGREGATE SIZE: 1".
   - 6.3. MAXIMUM AIR ENTRAINMENT: 3%.
   - 6.4. CEMENT TYPE: TYPE 1 OR TYPE 2.
7. SOIL BEARING CAPACITY IS ASSUMED TO BE 1500 PSF. NOTIFY THE PROJECT ENGINEER IF CONDITIONS VARY.
8. ALL FOOTINGS MUST BEAR ON UNDISTURBED SOIL.
9. STABILIZE ALL SLOPES AS NECESSARY.
10. ADJACENT GROUND SURFACES MUST BE SLOPED AWAY FROM THE STRUCTURE TO ENSURE PROPER DRAINAGE AND PREVENT EROSION OR SOIL ACCUMULATION NEAR FOOTINGS.
11. NON-UNIFORM SOIL CONDITIONS, INCLUDING CUT/FILL AREAS, MUST BE EXCAVATED AND REPLACED WITH UNIFORM ENGINEERED FILL MATERIAL TO MINIMIZE DIFFERENTIAL MOVEMENT.
12. THE TOPS OF FOUNDATIONS MUST EXTEND AT LEAST 6" ABOVE THE ADJACENT FINISH GRADE.
13. CRAWL SPACE CLEARANCE: MINIMUM CLEARANCE OF 18" IS REQUIRED FOR WOOD JOIST GIRDERS IN THE CRAWL SPACE UNLESS TREATED WOOD IS USED THROUGHOUT THE FLOOR SYSTEM.

GENERAL FRAMING NOTES

1. DIMENSIONAL LUMBER: ALL DIMENSIONAL LUMBER SHALL BE S-P-F NO. 2 OR BETTER. LARGER MEMBERS SHALL BE DOUGLAS FIR NO. 1 OR BETTER, UNLESS NOTED OTHERWISE (UNO).
2. ALL WALLS ARE DIMENSIONED FACE OF FRAMING TO FACE OF FRAMING. ALL MASONRY AND MASONRY VENEER IS DIMENSIONED TO FINISH FACE OF THE MASONRY.
3. CONTRACTOR TO COORDINATE ROUGH OPENING DIMENSIONS WITH WINDOW AND DOOR SCHEDULES. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT AND COORDINATE MANUF. RECOMMENDED OPENINGS PRIOR TO FRAMING / ORDERING WINDOWS AND DOORS.
4. PROVIDE MID SPAN X-BRIDGING OR BLOCKING AT ALL FLOOR AND ROOF JOISTS.
5. ALL I-JOISTS AND LVL MEMBERS MUST BE INSTALLED PER THEIR SPECIFIC MANUFACTURER LISTINGS.
6. ALL TRUSSES SHALL BE ENGINEERED, STAMPED, AND ACCOMPANIED BY A SEPARATE ENGINEERED DOCUMENT.
7. PRE-MANUFACTURED JOISTS & TRUSSES MUST MATCH THE SIZE AND TYPE SPECIFIED IN THE DRAWINGS AND COMPLY WITH MANUFACTURER RECOMMENDATIONS, INCLUDING WIND UPLIFT REQUIREMENTS.
8. INSTALLATION SHALL BE VERIFIED IN WRITING BY THE MANUFACTURER TO THE CONTRACTOR/ENGINEER. ALTERNATE JOIST SYSTEMS ARE PERMISSIBLE IF THEY MEET THE PROJECT'S LOAD CAPACITY, STIFFNESS, DIMENSIONAL, AND FIRE RATING REQUIREMENTS AND ARE ENGINEER-APPROVED.
9. INSTALL SOLID BLOCKING AT BEARING POINTS OF ALL JOISTS AND RAFTERS.
10. USE SIMPSON FRAMING ANCHORS TO CONNECT BLOCKING TO TOP WALLS AND HURRICANE CLIPS (SIMPSON H-1) @ EA ROOF RAFTER.
11. ALL CONNECTIONS MUST MEET OR EXCEED MEMBER CAPACITY. NON-STANDARD CONNECTIONS REQUIRE ENGINEER APPROVAL.
12. USE SIMPSON OR ICC-LISTED CONNECTIONS FOR ALL APPLICATIONS.
13. SHEAR WALL SHEATHING NAILS: HOT-DIPPED GALVANIZED OR PER IBC TABLE 2304.9.1/IRC TABLE R602.3(1).
14. ALL SHEATHING SHALL BE 7/16" OSB OR EQUAL, FASTENED WITH 8D NAILS @ 6" O.C. EDGES AND 12" O.C. IN-FIELD.
15. ELIMINATE THRUST WITH COLLAR TIES AND CEILING JOISTS WHERE APPLICABLE.
16. PROVIDE BEVELED BEARING PLATES AT BEARING POINTS FOR ENGINEERED RAFTERS.
17. EXTEND ALL COLUMNS TO THE FOUNDATION WITH BRACING AT FLOOR LEVELS. COLUMNS SHALL MATCH THE WIDTH OF THE SUPPORTED MEMBERS.
18. USE APA-RATED SHEATHING, EXPOSURE 1, PER DRAWING SPECIFICATIONS.
19. ALLOW 1/8" SPACING AT PANEL ENDS/EDGES UNLESS OTHERWISE SPECIFIED.
20. GLULAM BEAMS: FABRICATE PER U.S. PS-56 STANDARDS, 24F-V4 DF/DF FOR SIMPLE SPANS, AND 24F-V8 DF/DF FOR CONTINUOUS SPANS. ONE COAT OF END SEALER SHALL BE APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER SHOP OR FIELD.
21. TREAT ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY.
22. NOTIFY THE ENGINEER OF RECORD (EOR) BEFORE DRILLING HOLES IN STEEL BEAMS.

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TRUE N PLAN

DETAIL PLANS - EXTERIOR SCOPE

TITLE

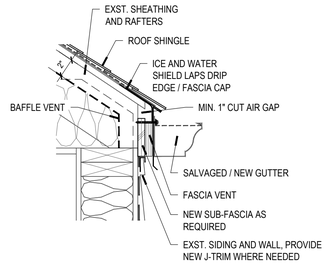
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DISCIPLINE • NUMBER

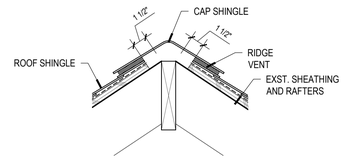
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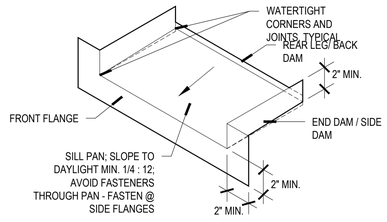
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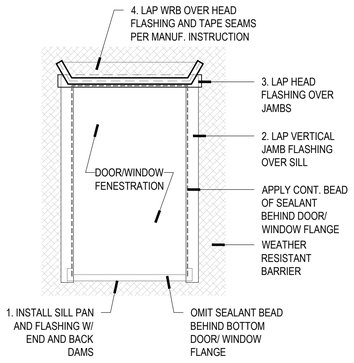
07 TYPICAL ROOF EAVE DETAIL
1-1/2"



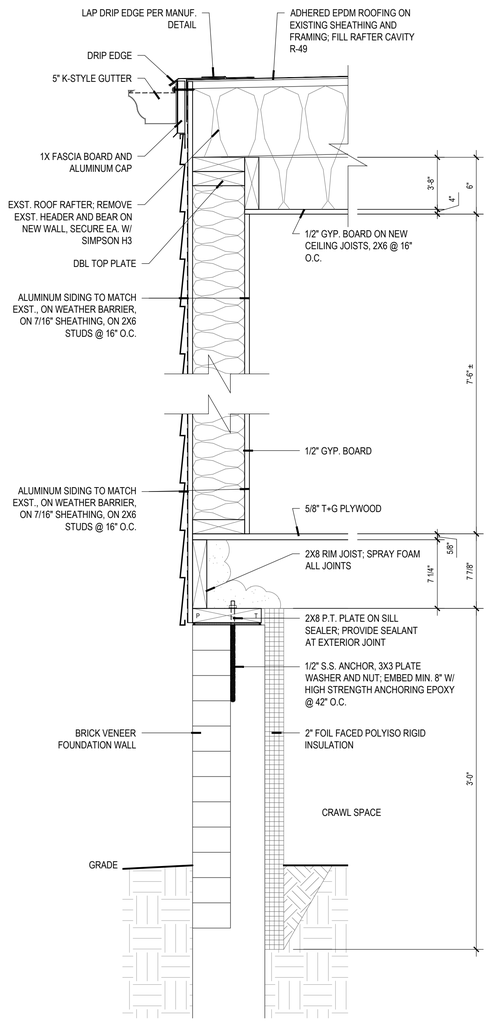
06 TYPICAL ROOF RIDGE DETAIL
1-1/2"



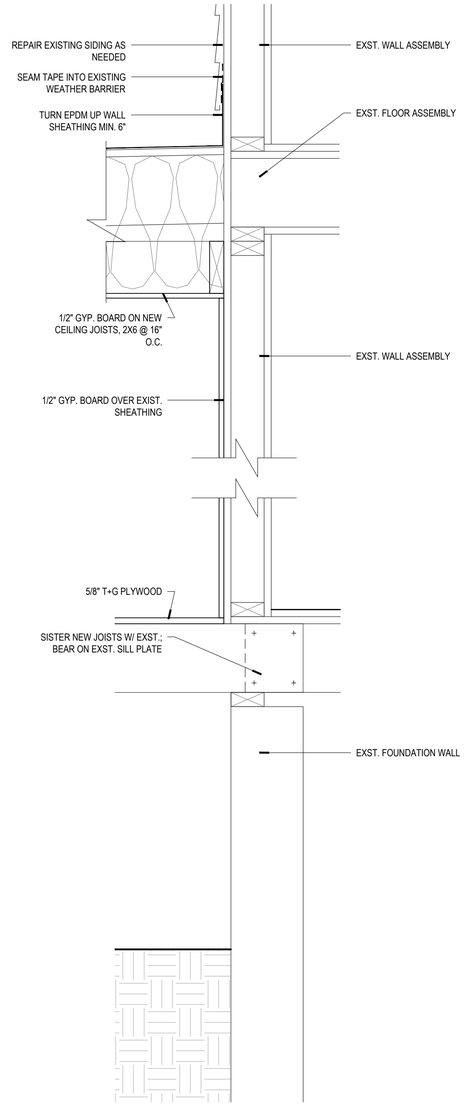
05 TYPICAL SILL PAN DETAIL - DOORS + WINDOWS
N.T.S.



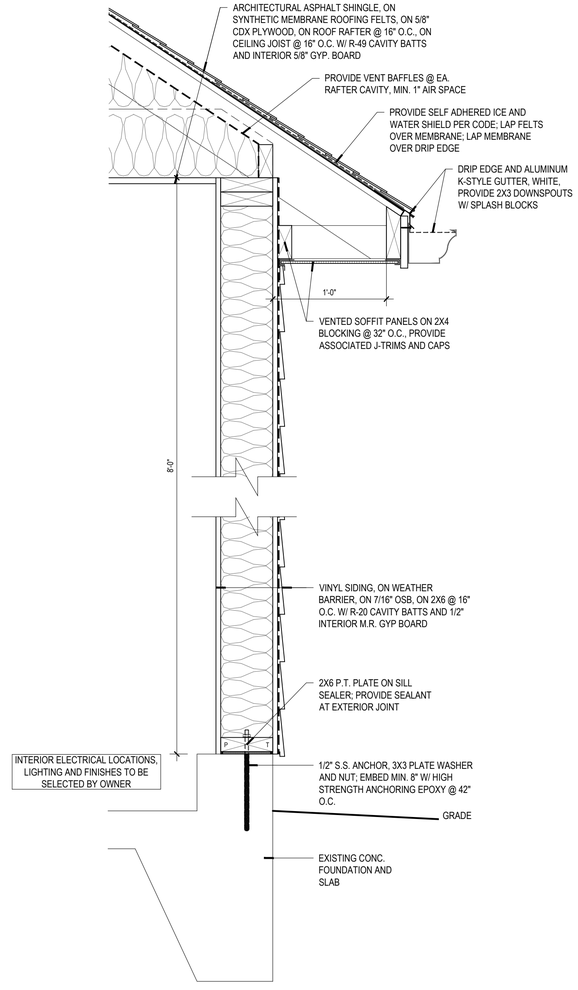
04 TYPICAL FLASHING DETAIL - DOORS + WINDOWS
N.T.S.



03 REAR BATHROOM WALL SECTION
1-1/2"=1'-0"



02 REAR BATHROOM WALL SECTION
1-1/2"=1'-0"



01 GARAGE WALL SECTION
1-1/2"=1'-0"

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TRUE PLAN

DETAILS - EXTERIOR SCOPE

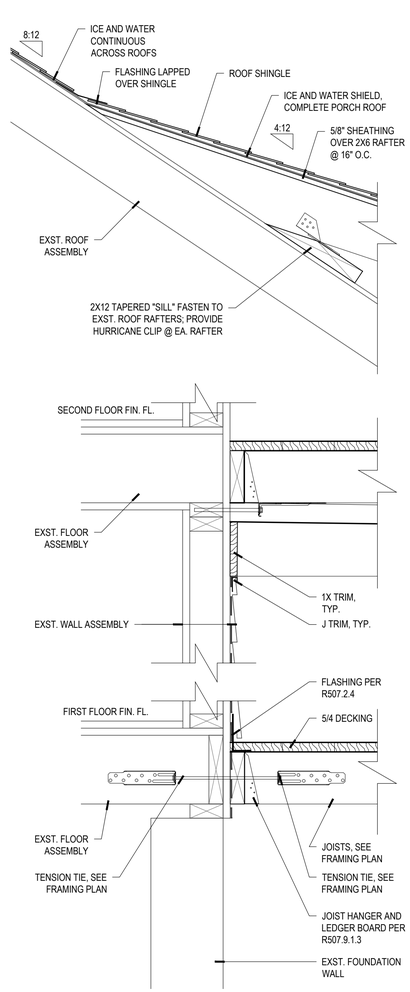
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A105

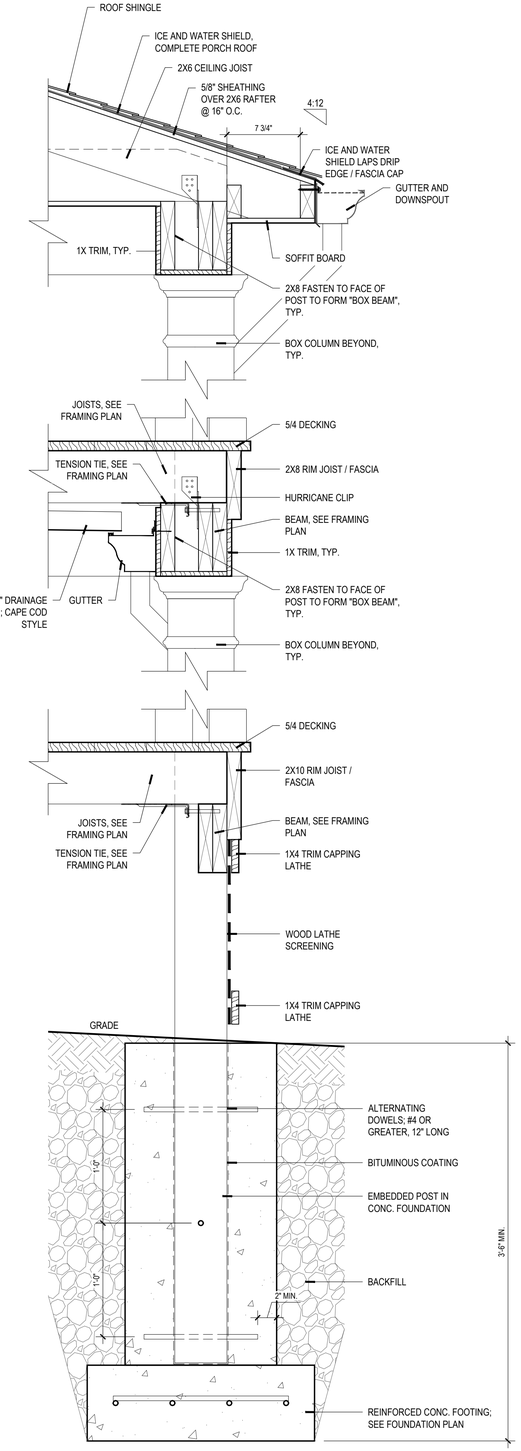
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02 PORCH
WALL SECTION
1-1/2"=1'-0"



01 PORCH
WALL SECTION
1-1/2"=1'-0"

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NO. 24-1016

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ISSUE	DATE
CLIENT REVIEW	12-13-2024
CLIENT REVIEW	12-20-2024
BIDDING	01-13-2025

TRUE PLAN

DETAILS - PORCH SCOPE

TITLE

A106

DISCIPLINE + NUMBER

DIALOGUE
PO 1953, E. 101st Street
Cleveland, Ohio 44106
dialogue-collab.com
+1 216 230 7350

DOUBLE HUNG



Double Hung windows in Designer Black with Matte Black hardware



Double Hung window in White with White hardware

DOUBLE HUNG

- Equipped with a standard full screen; optional half screen is available.
- Tilt latches are ergonomically designed and easy to operate, making tilting and cleaning effortless.
- Sash lock provides a positive detent, reassuring the user that the window is either locked or unlocked.
- Up to PG50 performance rating.
- Equal, Cottage, and Reverse Cottage sash provide a variety of looks and checkrail heights.
- Available in standard and special sizes up to 4 feet 6 inches wide by 7 feet high.
- Coordinating Picture and Transom windows also available.
- Double Hung Insert option features ¾ inch insert replacement frame with through jamb installation and up to PG40 performance rating.



DOUBLE HUNG



DOUBLE HUNG INSERT

Available with IZ3
(Excludes Insert option)

DESIGN OPTIONS

INTERIOR AND EXTERIOR FINISHES

Elevate windows and doors features rich pine interiors and a durable, strong, and fully paintable Ultrex® fiberglass exterior, featuring our AAMA-verified acrylic finish for low-maintenance and superior aesthetics. Elevate Round Tops include the extruded aluminum exterior finished in commercial-grade paint for superior resistance to fading and chalking.

WOOD INTERIOR FINISHES

BARE PINE
Wood comes bare and ready to be painted or stained

CLEAR COAT
Wood is finished in the factory with a clear coat

PAINTED WHITE
Factory painted

PAINTED DESIGNER BLACK
Factory painted

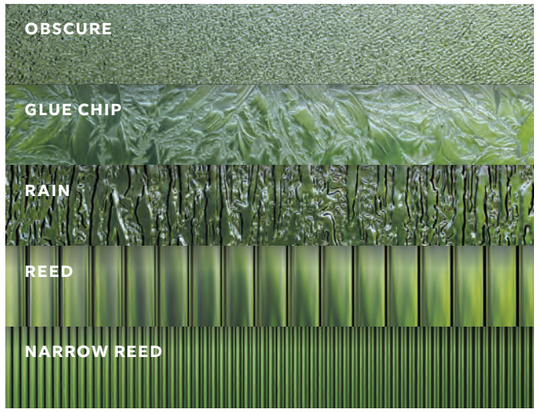
FIBERGLASS EXTERIOR COLORS

- STONE WHITE
- CASHMERE
- PEBBLE GRAY
- BRONZE
- GUNMETAL
- EBONY

GLASS OPTIONS

Glass is available with Standard Dual Pane or optional Triple Pane on select products. Available with Low E1, Low E2, Low E3, and Low E3/ERS insulated glass with argon gas.* Options include glazing for sound abatement (STC/OITC), high altitudes, and California fire zones. Laminated glass is also offered in products designed specifically for hurricane zones.

DECORATIVE GLASS





DIVIDED LITES

GRILLES-BETWEEN-THE-GLASS (GBG)
Available in several popular lite cut options for a classic divided lite look and easy glass cleaning. Available in Stone White, Bronze, and Ebony interior and Stone White, Cashmere, Pebble Gray, Bronze, Gunmetal or Ebony exterior.*

SIMULATED DIVIDED LITE (SDL)
Bars permanently adhered to both sides of the glass for a more authentic look. Available with or without spacer bar and in several lite cut options.


GRILLES-BETWEEN-THE-GLASS

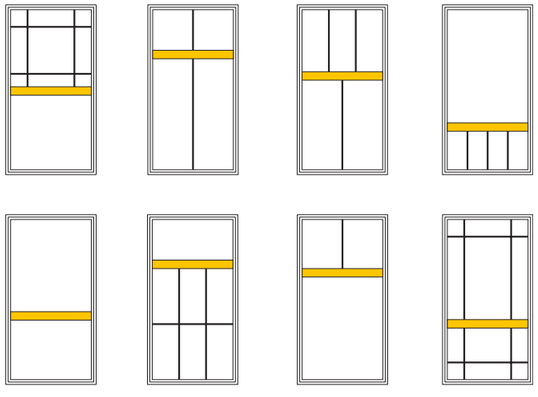

SIMULATED DIVIDED LITE

SIMULATED CHECKRAIL

Simulated Checkrail is the perfect solution when aesthetics call for the beauty of a double hung, but operation, egress, or performance demand another solution.

You specify placement of the horizontal simulated checkrail bar and the lite cut patterns above and below.

These illustrations offer a sampling of ⅞" Simulated Divided Lite (SDL) patterns that can be selected in combination with the 2 ¹¹⁄₃₂" Simulated Checkrail on Casement, Awning, Glider, Direct Glaze Rectangle, Picture windows, and all Elevate doors.



* Not available in polygons except direct glaze rectangles.

* Argon gas not available in high elevations where capillary tubes are required.

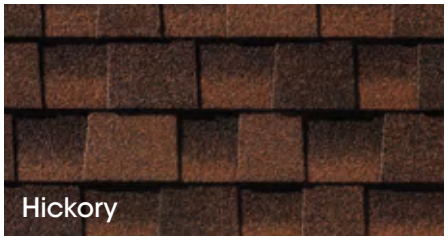
Timberline HDZ® Shingles

America's #1-selling shingle got even better. Timberline HDZ® Shingles feature LayerLock® Technology, which powers the industry's widest nail zone. When installed with the required combination of four qualifying GAF Accessories, Timberline HDZ® Shingles are eligible for an industry first: a wind warranty with no maximum wind speed limitation.[1] And now, with a 25-year StainGuard Plus™ Algae Protection Limited Warranty,[2] Timberline HDZ® offers everything you can expect from an architectural shingle roof, and more. **gaf.com/TimberlineHDZ**















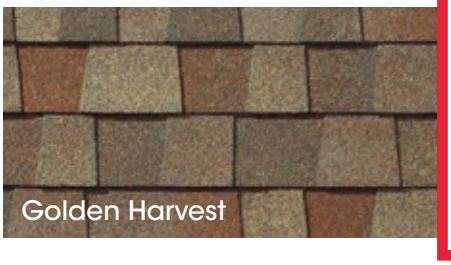






Harvest Blend Colors









[1] 15-year WindProven™ limited wind warranty on Timberline HDZ® Shingles requires the use of GAF Starter Strips, Roof Deck Protection, Ridge Cap Shingles, and Leak Barrier or Attic Ventilation. See *GAF Roofing System Limited Warranty* for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. For installations not eligible for the WindProven™ limited wind warranty, see *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions.

[2] 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions, and qualifying products.

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

City of Lakewood
Board of Building Standards • Architectural Board of Review • Sign Review Board

P: (216) 529-6630
F: (216) 529-5907
planning@lakewoodoh.gov

Application Cover Page

Docket No.: 02-16-25

Permit No.: BBS25-000010

Applicant Name: Nate Bailey, Hara Architects

Project Address: 17415 Detroit Ave.

Project Name: Garden Bar

Project: Applicant proposes an outdoor covered bar at the southeast corner.


ST JAMES HALL













GARDEN BAR

PROJECT INFORMATION

CITY LAKEWOOD
COUNTY CUYAHOGA COUNTY
ZONING C2 COMMERCIAL

AREA

PROJECT NEW COVERED OUTDOOR BAR/

PROJECT TEAM

ARCHITECT:	STRUCTURAL ENGINEERS:	MEP ENGINEER:
HARA ARCHITECTS	**-**	**-**
HUDSON, OHIO	-	-
P: 419.410.6241	P: -	P: -
CONTACT: NATE BAILEY	CONTACT: -	CONTACT: -

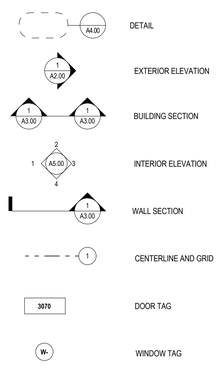
DRAWING INDEX

G100	COVER SHEET	01/22/2025
A101	FLOOR PLANS	01/22/2025
A102	RENDERINGS	01/22/2025
A201	ROOF PLAN & EXTERIOR ELEVATIONS	01/22/2025

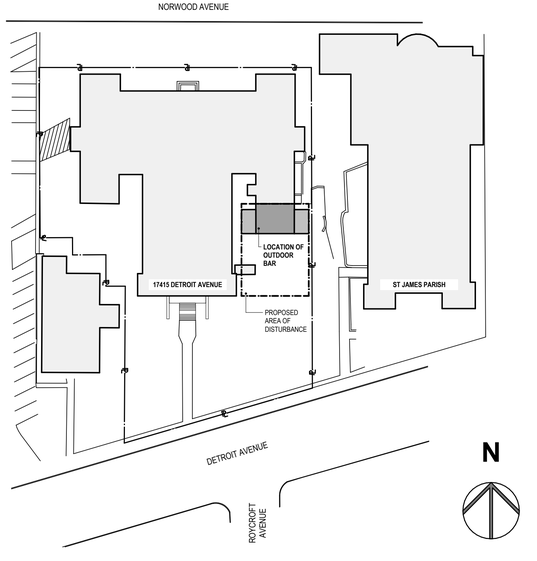
ABBREVIATIONS

ABV	ABOVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
ALUM	ALUMINUM
APPROX.	APPROXIMATELY
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BD	BOARD
BLDG	BUILDING
BOTT	BOTTOM OF
BRG	BEARING
BOTT	BOTTOM
BTW	BETWEEN
CF	CUBIC FEET
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CO	CLEAN OUT
CONT	CONTINUOUS
DBL	DOUBLE
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
EQ	EQUAL
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN.	FINISHED
FLR	FLOOR
FT	FOOT
FTG	FOOTING
FUR	FURRING
GALV	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
GYP. BD.	GYPSUM BOARD
GYP	GYPSUM
HC	HOLLOW CORE
HDWR.	HARDWARE
HM	HOLLOW METAL
HVAC	HEATING, VENTILATION, AND AIR COND.
HT	HEIGHT
INSUL	INSULATION
JST	JOIST
LAM	LAMINATED
LF	LINEAR FOOT
MAS	MASONRY
MATL	MATERIAL
MAX.	MAXIMUM
MECH	MECHANICAL
MFG.	MANUFACTURER
MIN.	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
O.C.	ON CENTER
OPN	OPENING
PREFAB	PREFABRICATED
PLYWD	PLYWOOD
P. LAM	PLASTIC LAMINATE
PR	PAIR
PSI	POUNDS PER SQUARE INCH
REF	REFERENCE
RM	ROOM
RO	ROUGH OPENING
REQ	REQUIRED
SC	SOLID CORE
SECT	SECTION
SIM.	SIMILAR
STRUC	STRUCTURAL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WWF	WELDED WIRE FABRIC

DRAWING SYMBOLS



SITE PLAN



2 **SITE PLAN**
SCALE: 1" = 50'

PROJECT GENERAL NOTES

THE CONTRACTOR WILL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, PERMITS, TAXES, AND INSURANCE NECESSARY TO COMPLETE THE WORK INDICATED AND/ OR IMPLIED IN THE CONSTRUCTION DOCUMENTS UNLESS NOTED OTHERWISE AND WILL COORDINATE THE WORK RESPONSIBILITIES OF ALL SUBCONTRACTORS. ALL LABOR AND MATERIALS TO CARRY OUT FULLY THE INTENTIONS OF THE PLANS AND SPECIFICATIONS ARE PART OF THE CONTRACT, WHETHER OR NOT SPECIFICALLY DOCUMENTED.

ALL WORK WILL CONFORM TO THE CURRENT OHIO BUILDING, MECHANICAL & PLUMBING CODES, AS WELL AS THE CURRENT NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL OTHER APPLICABLE CITY CODES, LOCAL LAWS, AND AUTHORITIES HAVING JURISDICTION. CODE STANDARDS AND PUBLICATIONS OF PRIVATE AND PUBLIC BODIES MENTIONED WITHIN THE SPECIFICATIONS OR ON THE DRAWINGS, WILL BE CONSIDERED TO BE THOSE IN FORCE AT THE TIME OF THE CONTRACT AWARD.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONTROLLED INSPECTIONS AND ANY TECHNICAL TESTING REQUIRED FOR CONTROLLED INSPECTIONS AS STIPULATED BY ALL APPLICABLE CODES.

ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT WILL BE NEW AND FREE OF DEFECTS AND WILL BE SUPPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED AS DIRECTED BY THE RESPECTIVE MANUFACTURERS, UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES IN AND BETWEEN THE DRAWINGS AND THE SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK. IF SUCH NOTICE IS NOT FURNISHED TO THE ARCHITECT, THE CONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE DRAWINGS AND SPECIFICATIONS AND TO HAVE FOUND THEM IN PROPER FORM FOR EXECUTION.

THE CONTRACTOR REPRESENTS THAT HE HAS HAD ADEQUATE ACCESS TO THE JOB SITE AND BUILDING AREA IN WHICH THE WORK IS TO BE PERFORMED, THAT HE HAS SATISFIED HIMSELF AT TO THE NATURE AND LOCATION OF WORK, INCLUDING ANY OBSTRUCTIONS, SCOPE OF WORK, ACTUAL LEVELS, THE EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING THE EXECUTION OF THE WORK AND ALL OTHER MATTERS, WHICH CAN IN ANY WAY AFFECT THE WORK OR THE COST THEREOF UNDER THIS CONTRACT, AND THAT HE HAS STUDIED THE CONTRACT DOCUMENTS AND ALL OTHER DOCUMENTS PERTAINING TO THE INSTALLATION OF OTHER TRADES WHICH MAY INFLUENCE HIS WORK.

THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY, INCLUDING RESPONSIBILITY FOR ALL RELATED COSTS FOR ANY AND ALL WORK DONE WITHOUT THE APPROVAL OF THE ARCHITECT IF SUCH WORK IS IN CONFLICT WITH THE CONTRACT, DRAWINGS, OR SPECIFICATIONS.

THE OWNER WILL ESTABLISH THE LIMITS OF THE CONSTRUCTION SITE IN ADDITION TO ANY CONTRACT LIMIT LINES SHOWN IN THE DRAWINGS. THE CONTRACTOR WILL CONTINUE HIS OPERATIONS WITHIN THESE LIMITS, UNLESS UPON WRITTEN REQUEST AND REPLY, A VARIANCE IS AGREED TO BY THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR TRESPASS ON AND/ OR DAMAGE TO OTHER PROPERTY BY ANY OF HIS EMPLOYEES OR HIS SUBCONTRACTOR'S EMPLOYEES.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFE WORKING CONDITIONS AT THE SITE. THE ARCHITECT AND OWNER WILL NOT BE DEEMED TO HAVE ANY RESPONSIBILITY OR LIABILITY IN CONNECTION HEREWITH.

CONSTRUCTION OPERATIONS WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, ELECTRICAL, OR OTHER SERVICES TO ANY PORTION OF THE BUILDING OUTSIDE THE LIMITS OF THE CONSTRUCTION SITE DESCRIBED IN NOTE 9.

THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES CUASED BY DEFECTIVE OR ILL TIMED WORK AT NO ADDITIONAL COST TO THE OWNER.

NO SUBSTITUTIONS ARE PERMITTED EXCEPT WHERE THE TERM "APPROVED EQUAL" APPEARS. ALL SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR IS TO SUBMIT SAMPLES OR CATALOG CUTS OF ALL VISIBLE MATERIALS AND EQUIPMENT FOR THE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.

HARA ARCHITECTS
haraarchitects.com
PROJECT TEAM:
ARCHITECT
HARA ARCHITECTS

GARDEN BAR
17415 DETROIT AVENUE, LAKEWOOD, OHIO 44107

PROJECT #: 2503

ISSUE	ID	DATE
ARB	A	01/22/2025

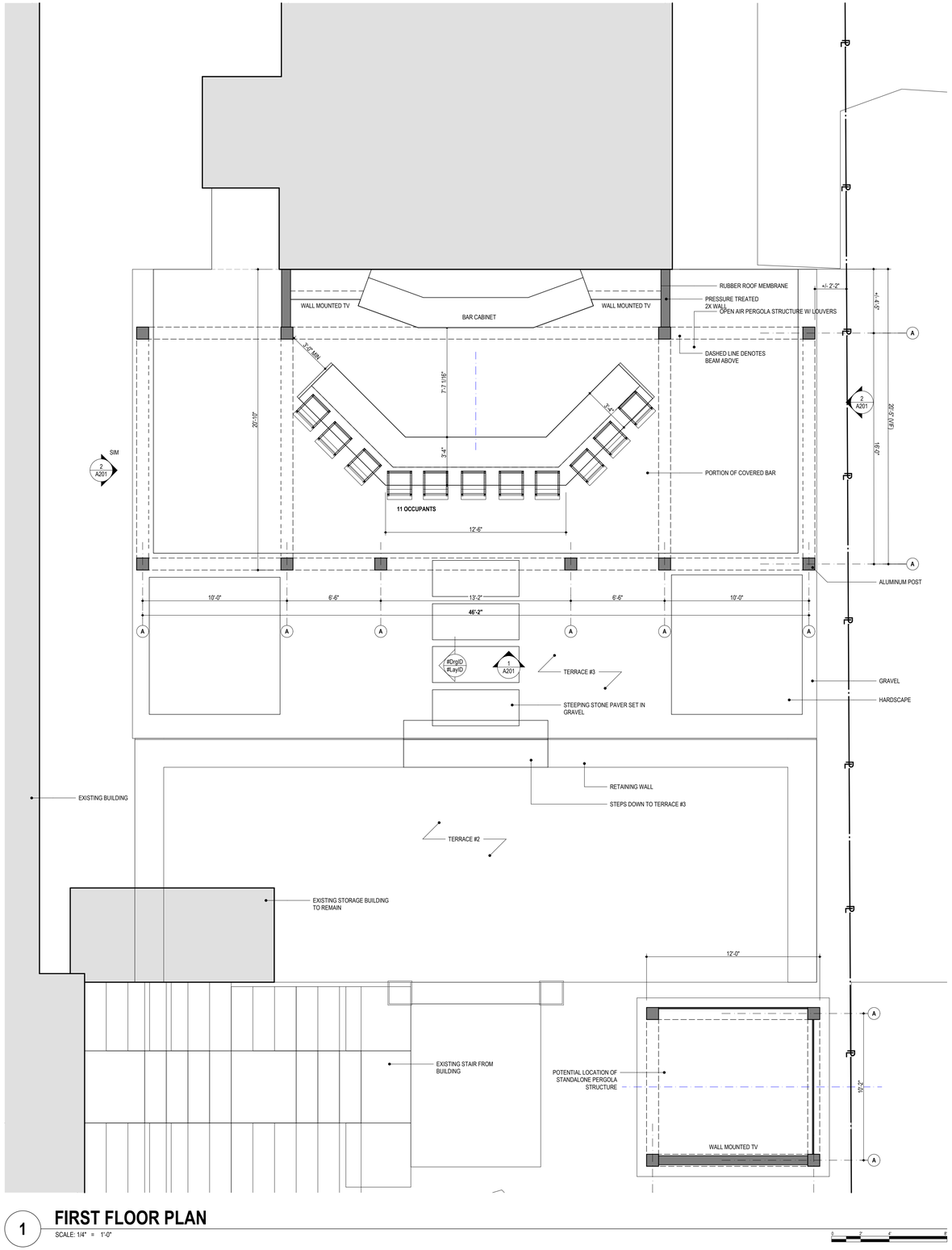
COVER SHEET

G100

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AERIAL RENDERING



1 **FIRST FLOOR PLAN**

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

HARA ARCHITECTS

haraarchitects.com

PROJECT TEAM:

ARCHITECT
HARA ARCHITECTS

GARDEN BAR

17415 DETROIT AVENUE, LAKEWOOD, OHIO 44107

PROJECT #: 2503

ISSUE	ID	DATE
ARB	A	01/22/2025

FLOOR PLANS

A101

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HARA ARCHITECTS

haraarchitects.com

PROJECT TEAM:

ARCHITECT
HARA ARCHITECTS

GARDEN BAR

17415 DETROIT AVENUE, LAKEWOOD, OHIO 44107

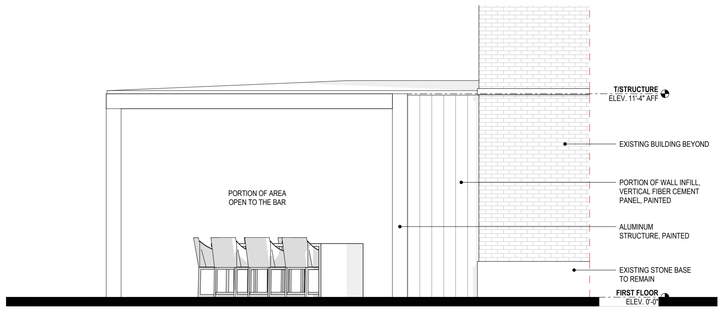
PROJECT #: 2503

ISSUE	ID	DATE
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RENDERINGS

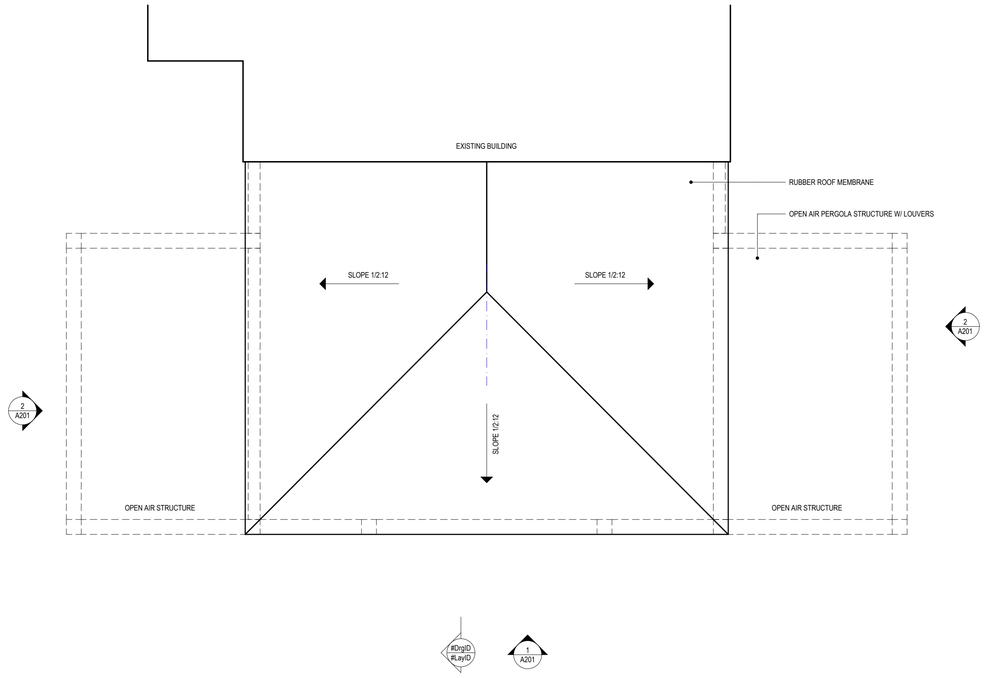
A102

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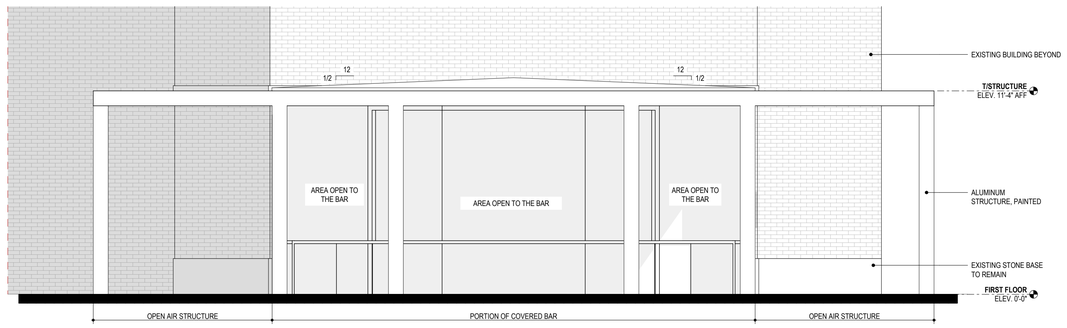
2 WEST ELEVATION

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



3 ROOF PLAN

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

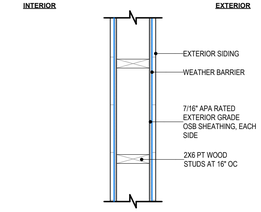


1 SOUTH ELEVATION

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

EXTERIOR WALL TYPES

NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW



ROOF PLAN GENERAL NOTES

OVERHANG DIMENSIONS ARE NOTED FROM THE EXTERIOR FACE OF SHEATHING TO THE EXTERIOR FACE OF THE 1X FASCIA BOARD

ALL BEARING ELEVATIONS NOTED ARE FROM THE INSIDE FACE OF THE 2X FRAMING U.N.O.

OVERFRAMING AND CRICKETS TO BE CONSTRUCTED OF A MINIMUM 2 X 8 FRAMING.

ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLTION TO ENSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.

FLASH AND TERMINATE ALL PROOF PENETRATIONS PER MANUFACTURERS RECOMMENDATIONS U.N.O.

PROVIDE A MINIMUM OF 72" ICE GUARD AT ALL EAVES. WRAP OVER FASCIA AND UP VALLEY 8"

HARA ARCHITECTS

haraarchitects.com

PROJECT TEAM:

ARCHITECT
HARA ARCHITECTS

GARDEN BAR

17415 DETROIT AVENUE, LAKEWOOD, OHIO 44107

PROJECT #: 2503

ISSUE	ID	DATE
ARB	A	01/22/2025

ROOF PLAN & EXTERIOR ELEVATIONS

A201

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City of Lakewood
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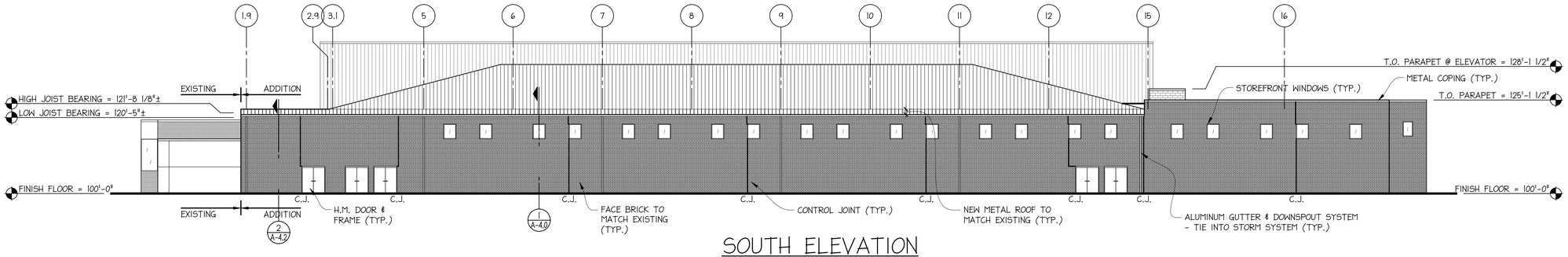
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planning@lakewoodoh.gov

Communication Cover Page

Docket No.: 02-17-25

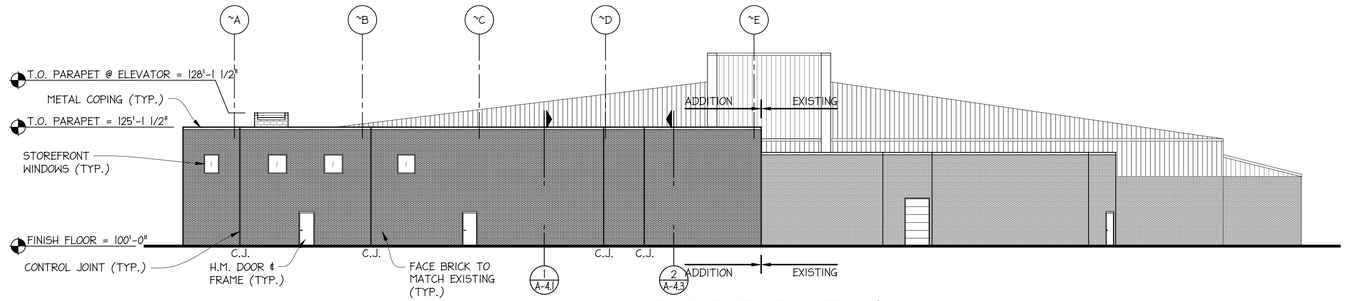
Permit No.: BBS25-000011

Project: Communication regarding renovation of 14740 Lakewood Heights Blvd., Winterhurst Ice Arena



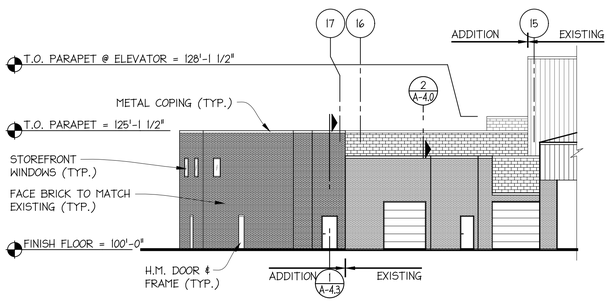
SOUTH ELEVATION

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



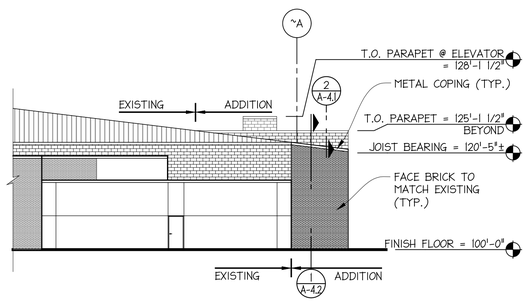
EAST ELEVATION

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



NORTH ELEVATION

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



WEST ELEVATION

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

ANDRUS ARCHITECTURE
PHONE: 616.863.8850
WWW.ANDRUSARCHITECTURE.COM
11629 NORTHLAND DRIVE - SUITE 200
ROCKFORD, MI 49341

WINTERHURST ICE RINK
ADDITION & RENOVATION
14740 LAKEWOOD HEIGHTS BLVD.
LAKEWOOD, OH 44107

ELEVATIONS

DESCRIPTION: OWNER REVIEW
DATE: 01/02/25

PROJECT NO: 23-104

SHEET: A-3.0

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Winterhurst Ice Arena

Locker Room/Rink Space Renovation

Architectural Board of Review (ABR) – Feb 2025

City of Lakewood

Department of Planning and Development

David Baas, Assistant Director

Winterhurst - Locker Room/Rink Space Renovation

Timeline: April 2025 – February 2026

Goals:

a) Reconfigure and renovate existing (original 1974-75) **locker room space(s)** to provide contemporary facilities that can be used interchangeably by both male/female teams. Within budget limitations, increase number of youth/high school locker rooms available via more efficient use of existing space or by limited expansion of building footprint.

b) Develop most feasible option for the addition of an **indoor off-ice training space** for athletes and teams.

c) Replace existing (also original 1974-75) **spectator stands** in both rinks with contemporary and ADA-accessible designs while working to improve pathways (from lobby to rear locker room spaces) and enhance organizational/team storage space under spectator stands.

Concurrent actions: repair frost heaving and install new scoreboards.

LAKEWOOD OHIO


Site - Winterhurst
Delaware Ave
Alger Rd
Emily Ave
Warren Rd & Delaware AV
Warren Rd
2226
2230
2225
2268
2231
2272
14723
14719
14715
14711
14707
14703
14701
2246
2248
2256
2253
2259
2261
2263
2275
14515
2235
2237
2241
14740
14900
14818
14816
14814
14812
Lakewood Heights Blvd
Alger Rd
Lakewood Heights Blvd
Lakewood Heights Blvd
Lakewood Heights Blvd
Northwest Fwy
Northwest Fwy

Site - Winterhurst

Existing Conditions



Existing Conditions



Existing Conditions




Existing Conditions

Existing Conditions



Existing Conditions



Existing Conditions



Existing Conditions



Existing Conditions



Existing Conditions



Existing Conditions

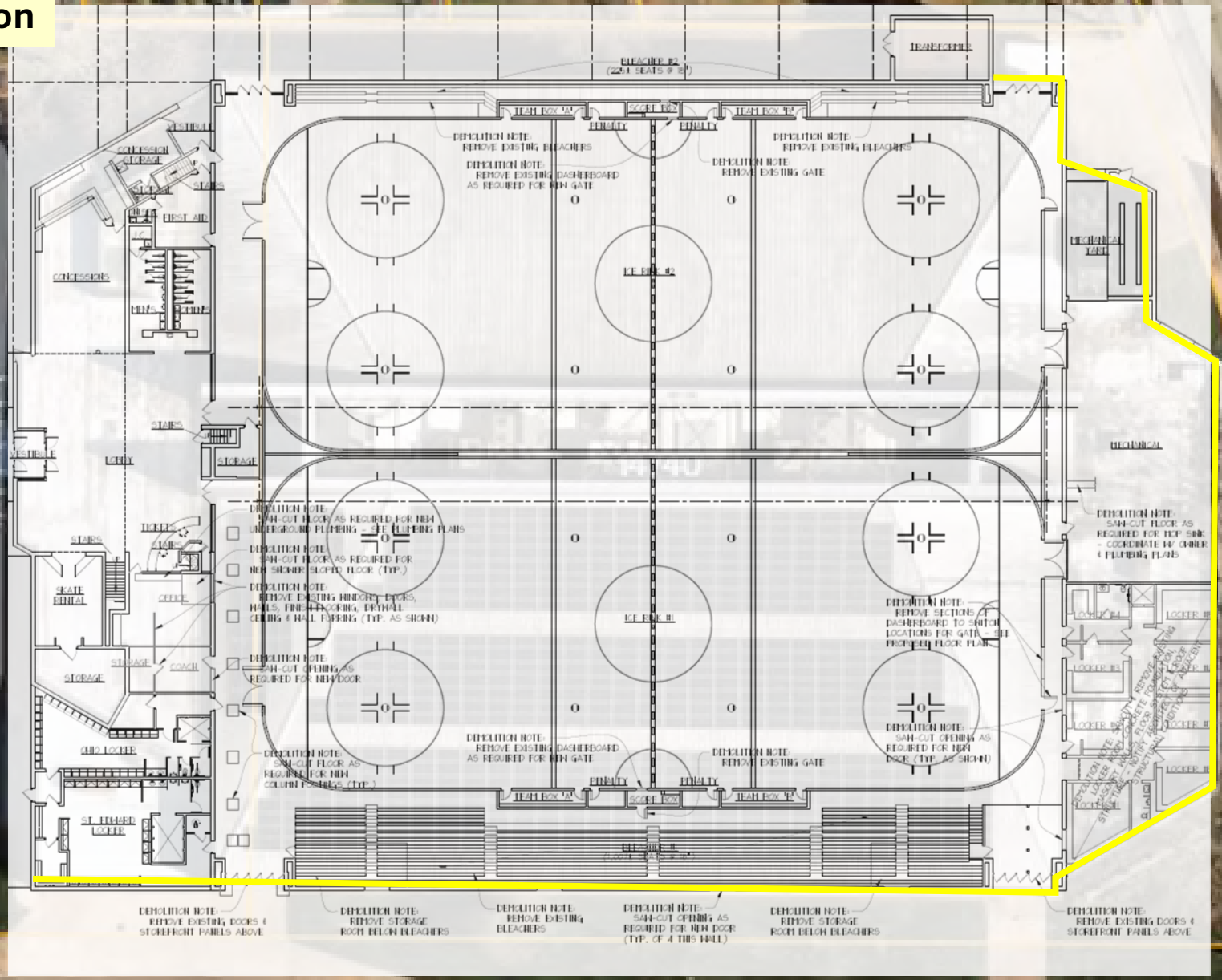


Existing Conditions

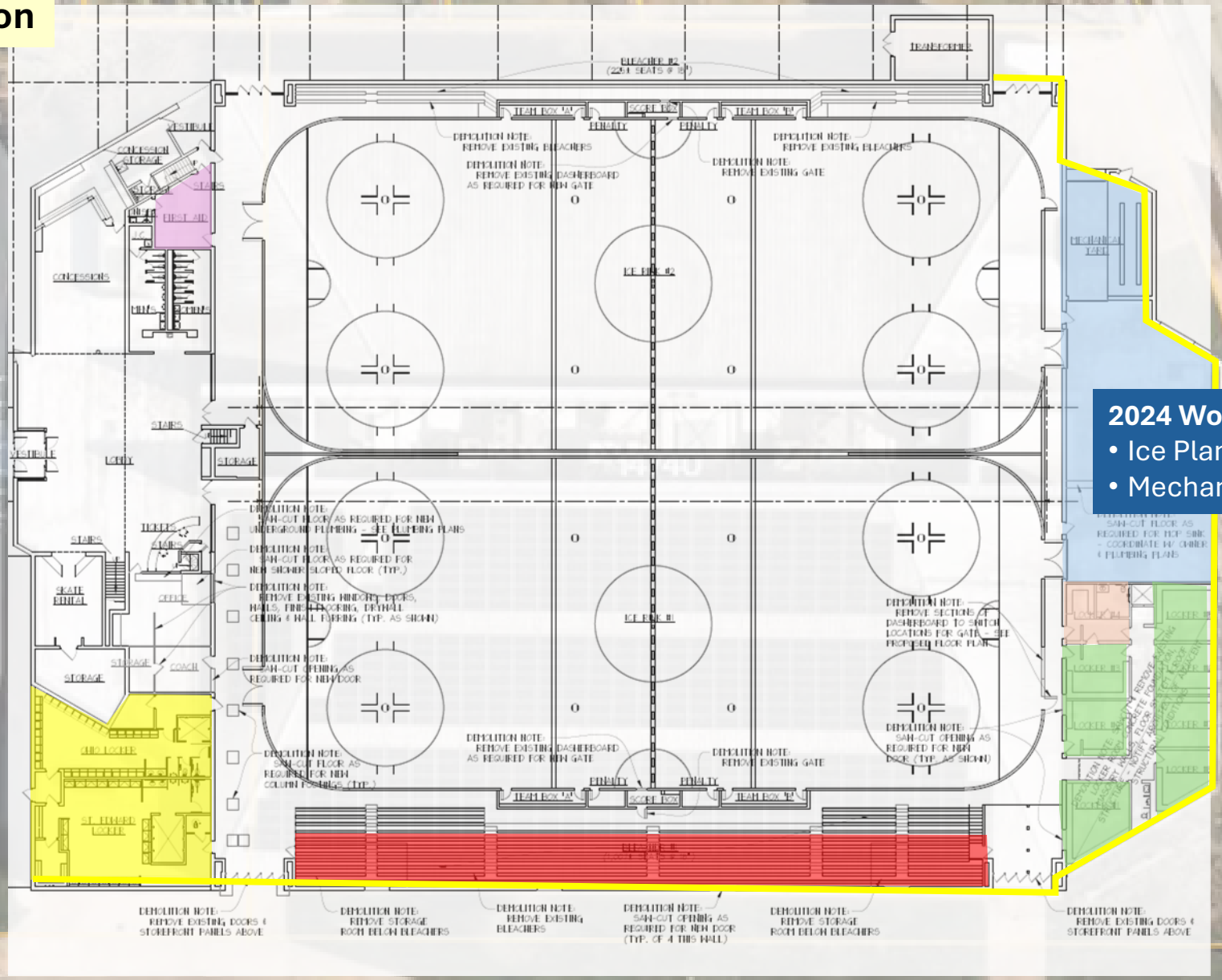


Site – Current Footprint

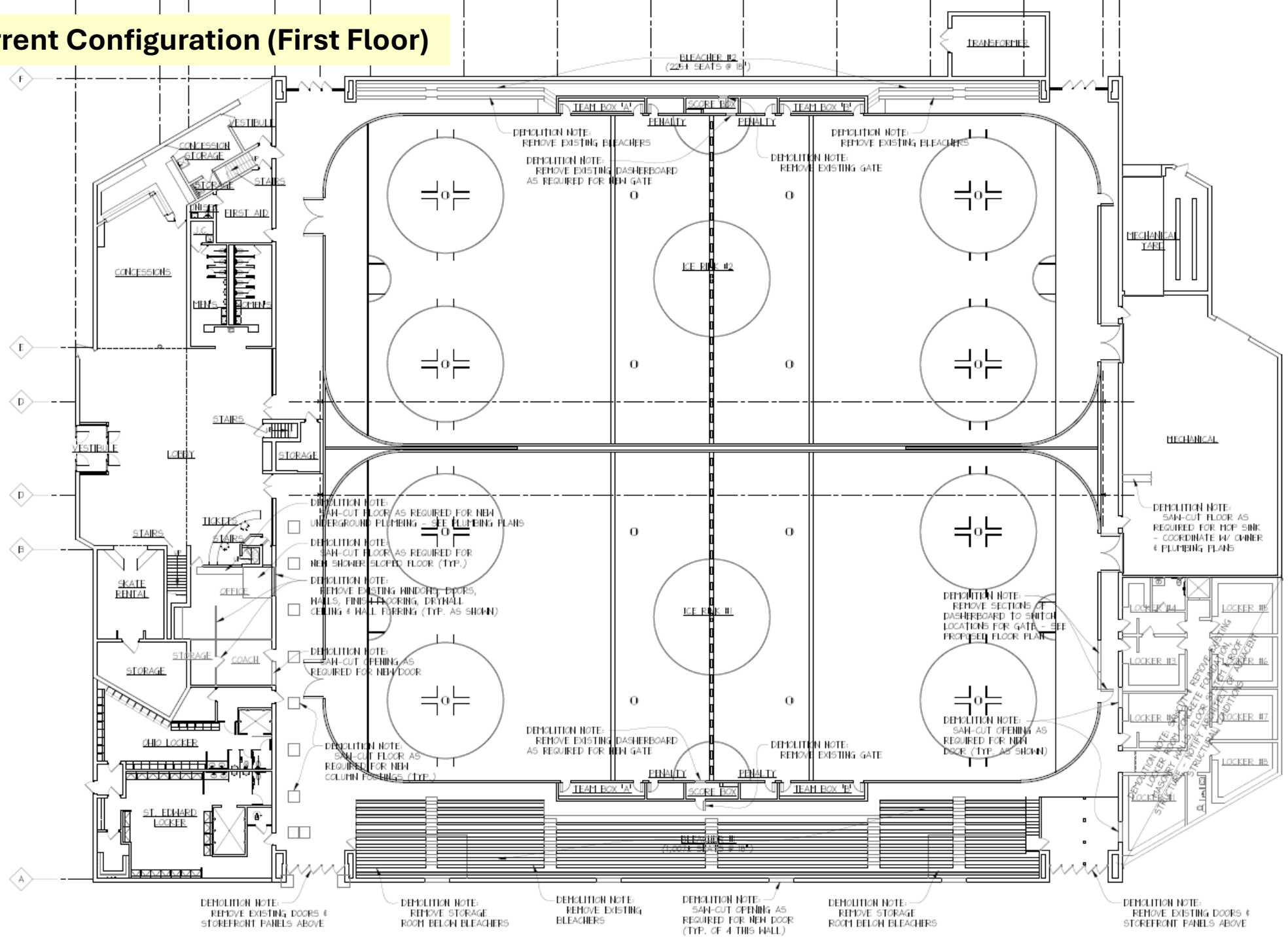
Site – Current Configuration



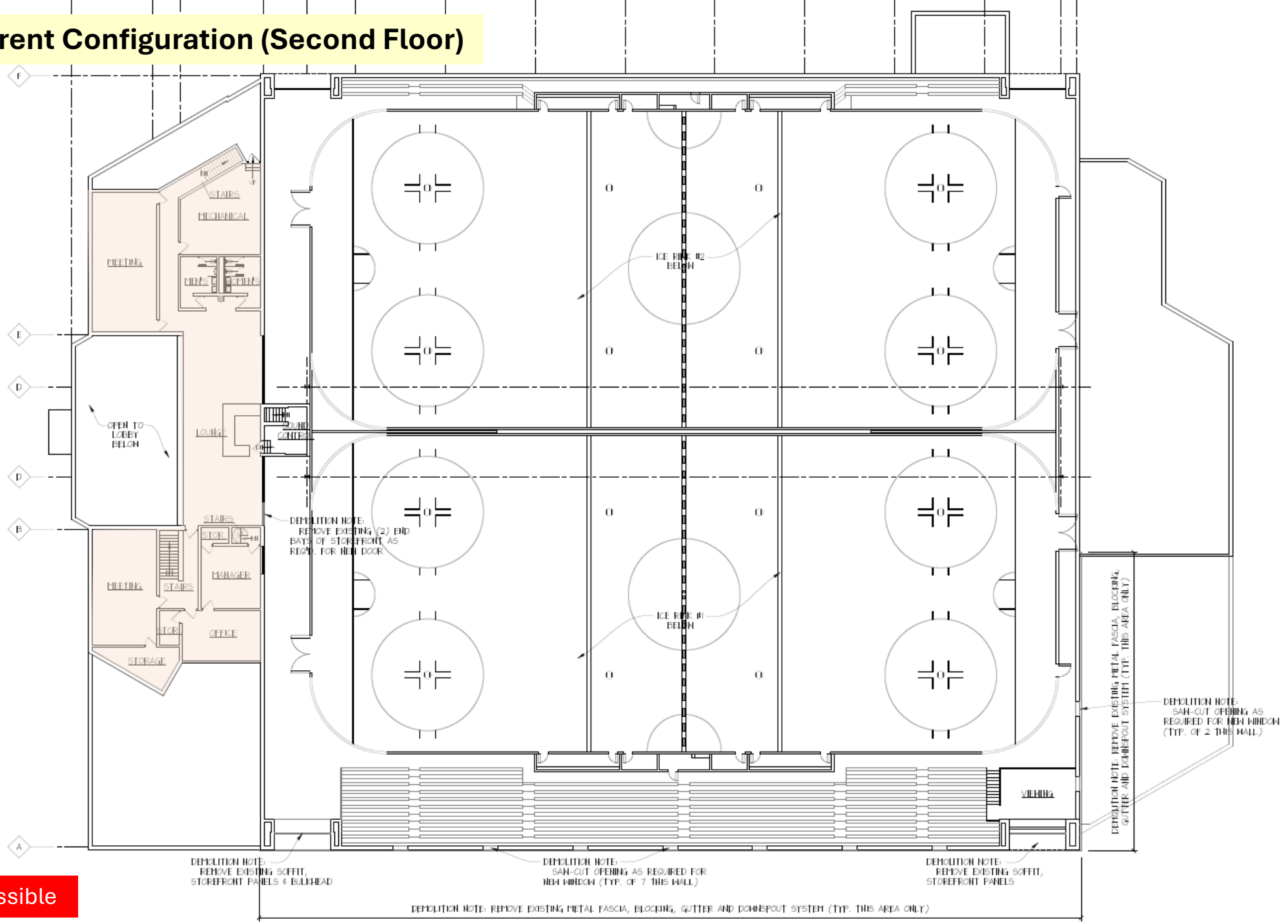
Site – Current Configuration


BLEACHER #2
(225# SEATS @ 18")
TEAM BOX "A"
SCORE BOX
PENALTY
TEAM BOX "B"
DEMOLITION NOTE:
REMOVE EXISTING BLEACHERS
DEMOLITION NOTE:
REMOVE EXISTING DASHERBOARD AS REQUIRED FOR NEW GATE
DEMOLITION NOTE:
REMOVE EXISTING GATE
CONCESSION STORAGE
VESTIBULE
STAIRS
FIRST AID
CONCESSIONS
ICE RINK #2
LOBBY
STORAGE
TOILETS
SKATE RENTAL
OFFICE
COACH
SKATE SHARPENING
SKI LOCKERS
ST. HYACINTHE LOUNGE
ICE RINK #1
DEMOLITION NOTE:
SAW-CUT FLOOR AS REQUIRED FOR NEW UNDERGROUND PLUMBING - SEE PLUMBING PLANS
DEMOLITION NOTE:
SAW-CUT FLOOR AS REQUIRED FOR NEW SHOWER SLOPED FLOOR (TYP.)
DEMOLITION NOTE:
REMOVE EXISTING WINDOWS, DOORS, WALLS, FINISH FLOORING, DRYWALL CEILING & WALL FURRING (TYP. AS SHOWN)
DEMOLITION NOTE:
SAW-CUT OPENING AS REQUIRED FOR NEW DOOR
DEMOLITION NOTE:
SAW-CUT FLOOR AS REQUIRED FOR NEW COLUMN FOOTINGS (TYP.)
DEMOLITION NOTE:
REMOVE SECTIONS OF DASHERBOARD TO SWITCH LOCATIONS FOR GATE - SEE PROPOSED FLOOR PLAN
DEMOLITION NOTE:
SAW-CUT OPENING AS REQUIRED FOR NEW DOOR (TYP. AS SHOWN)
DEMOLITION NOTE:
REMOVE EXISTING DOORS & STOREFRONT PANELS ABOVE
DEMOLITION NOTE:
REMOVE STORAGE ROOM BELOW BLEACHERS
DEMOLITION NOTE:
REMOVE EXISTING BLEACHERS
DEMOLITION NOTE:
SAW-CUT OPENING AS REQUIRED FOR NEW DOOR (TYP. OF 4 THIS WALL)
DEMOLITION NOTE:
REMOVE STORAGE ROOM BELOW BLEACHERS
DEMOLITION NOTE:
REMOVE EXISTING DOORS & STOREFRONT PANELS ABOVE
LOCKER ROOM
LOCKER ROOM
LOCKER ROOM

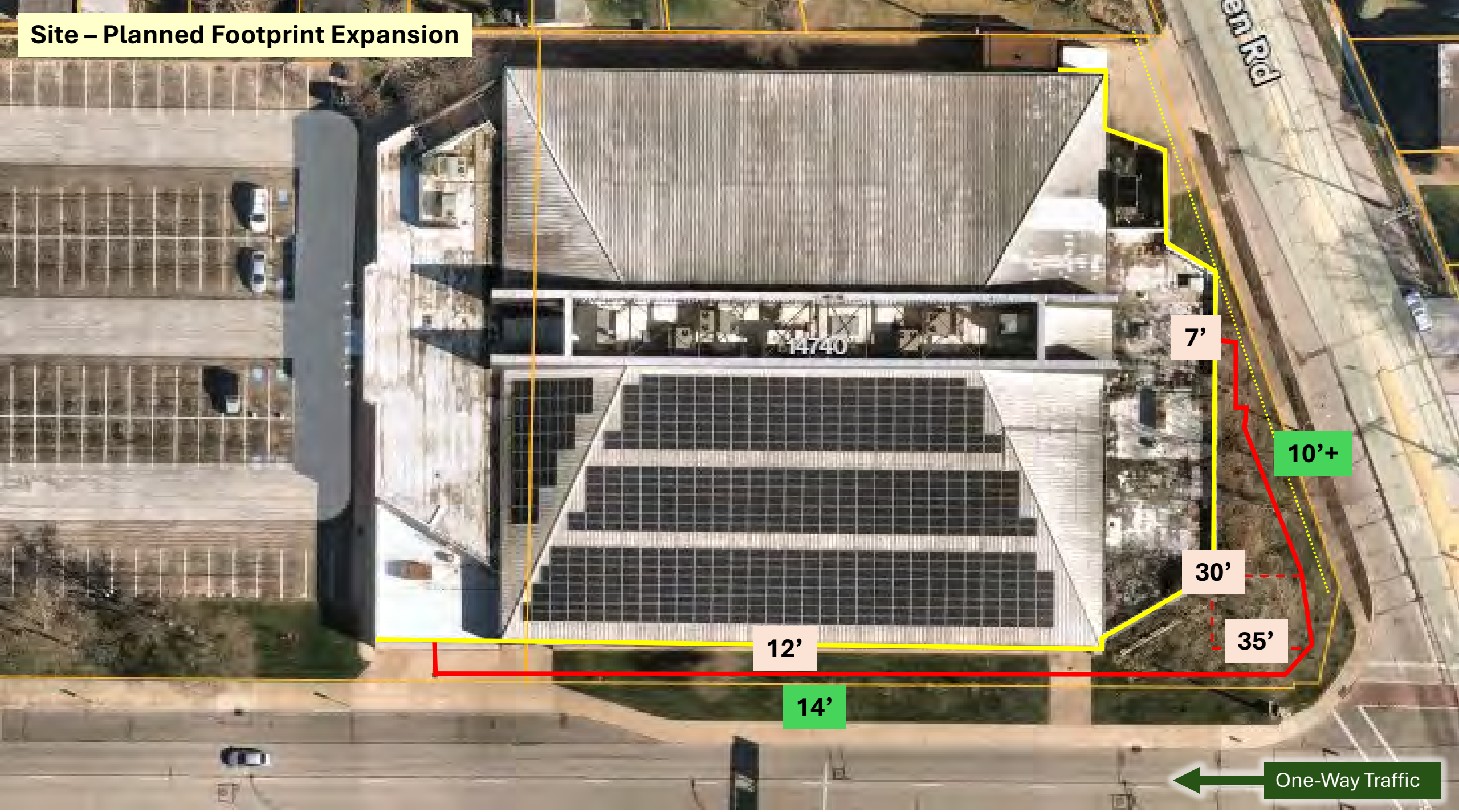
Site – Current Configuration (First Floor)



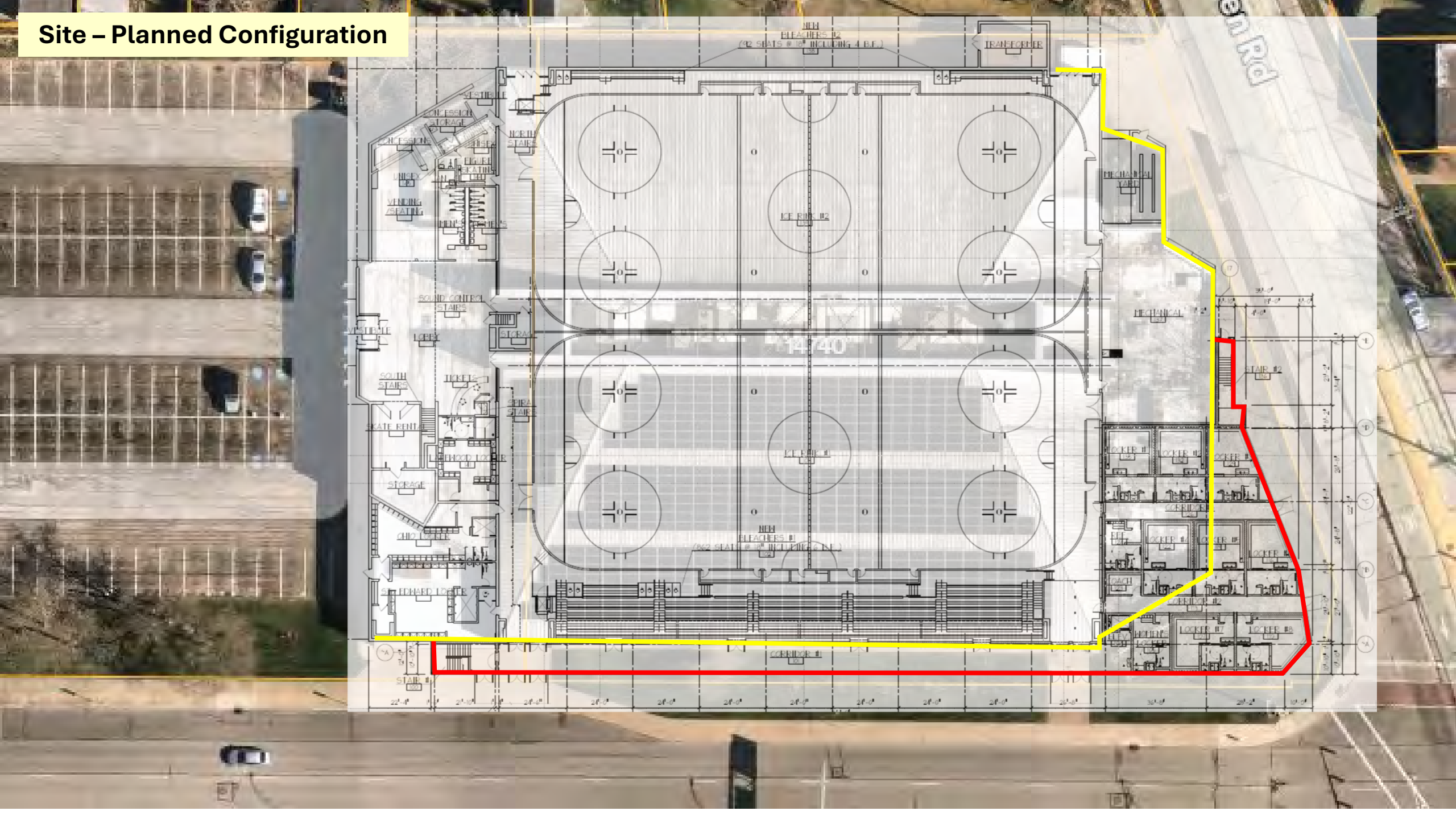
Site – Current Configuration (Second Floor)



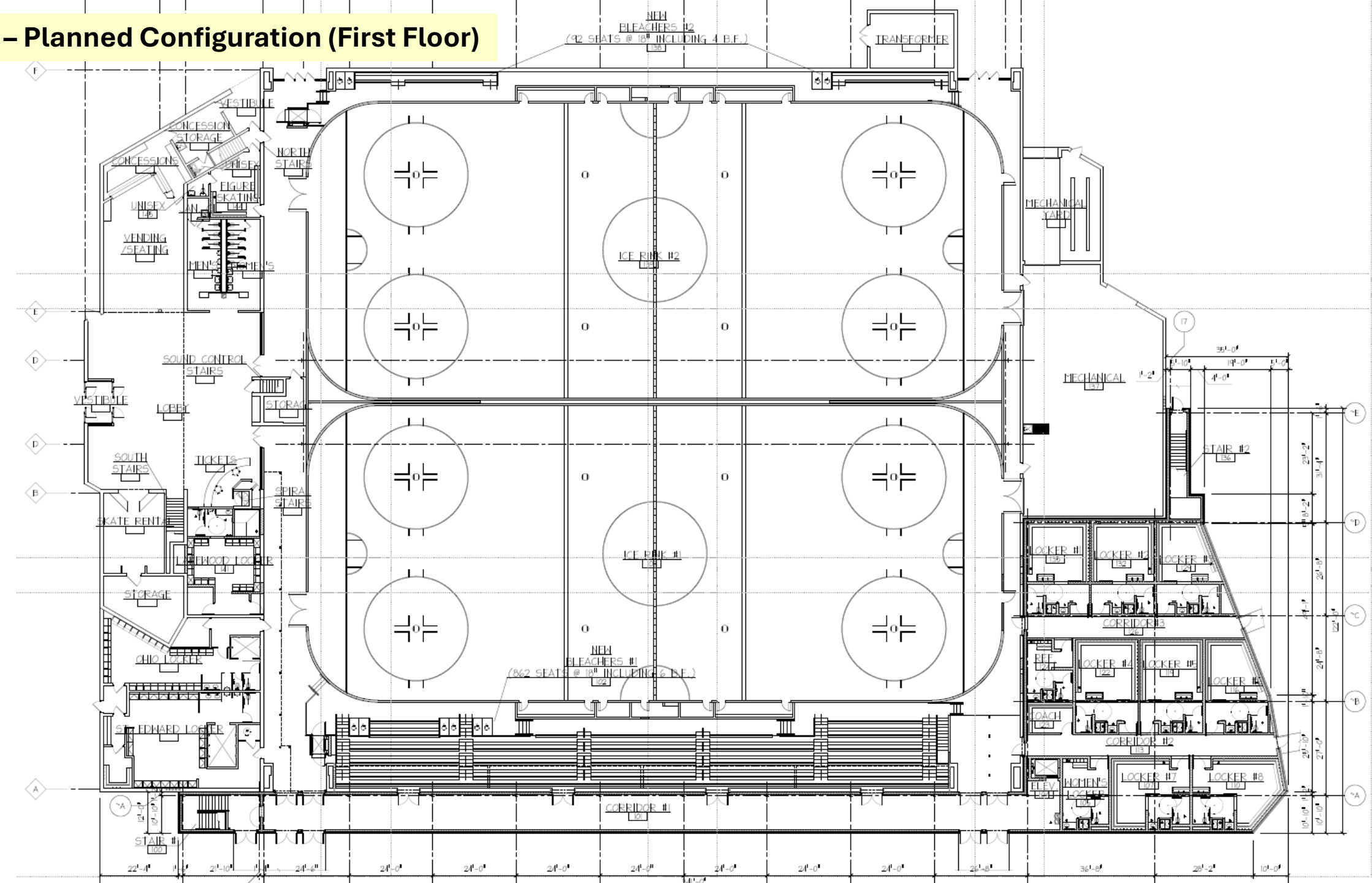
Not ADA Accessible


Site – Planned Footprint Expansion
14740
7’
10’+
30’
35’
12’
14’
One-Way Traffic

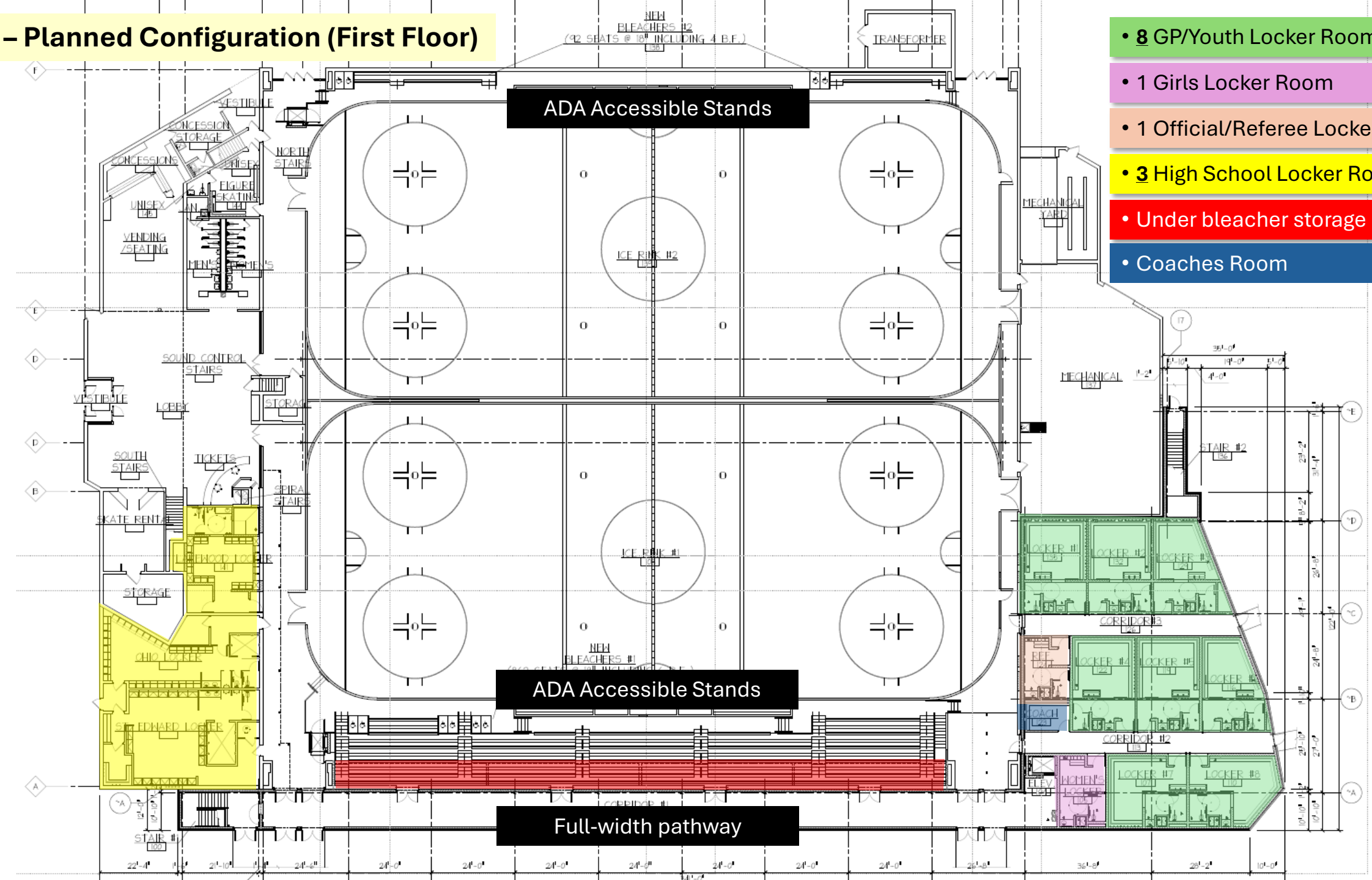
Site – Planned Configuration



Site – Planned Configuration (First Floor)

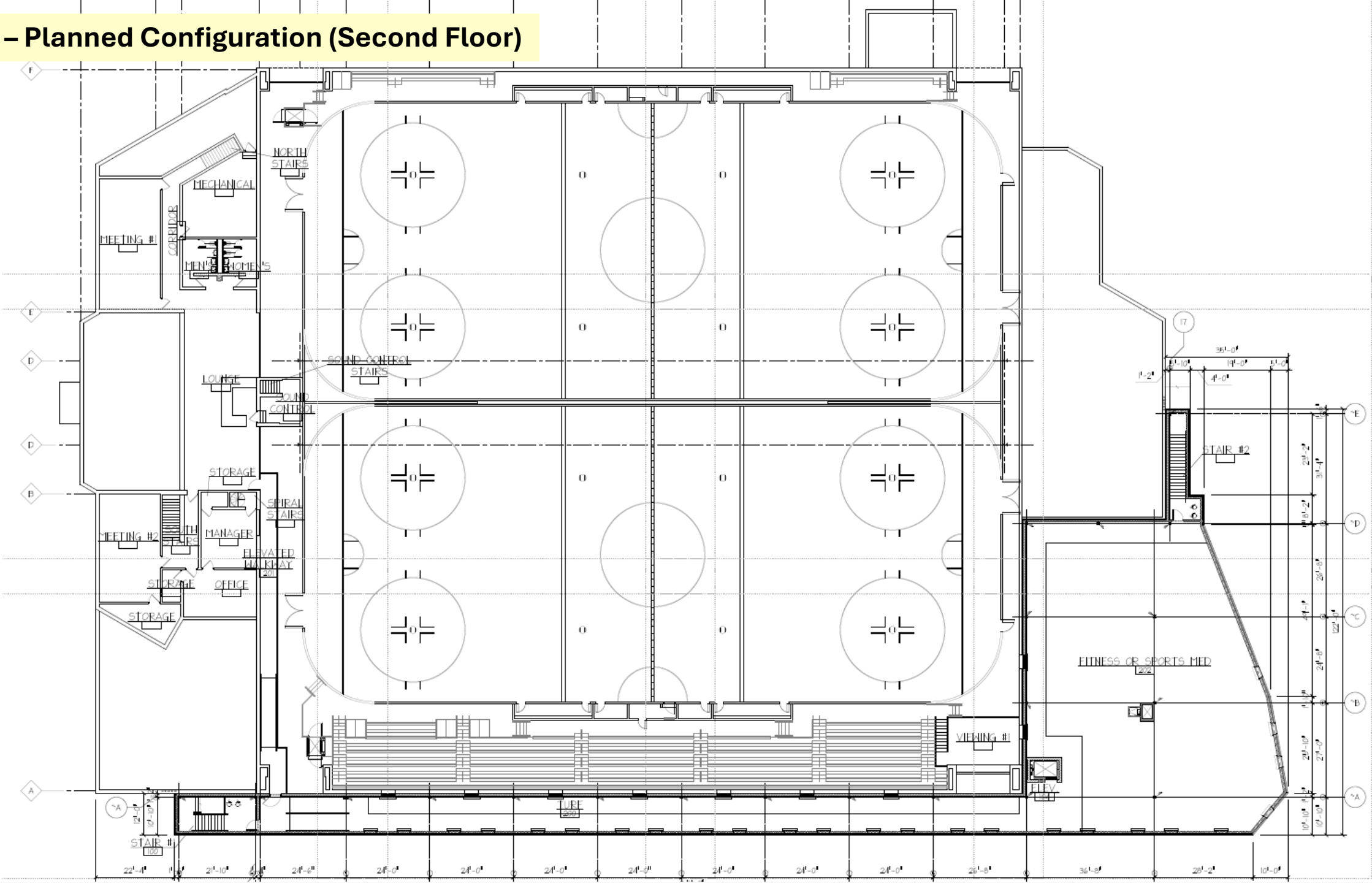


Site – Planned Configuration (First Floor)

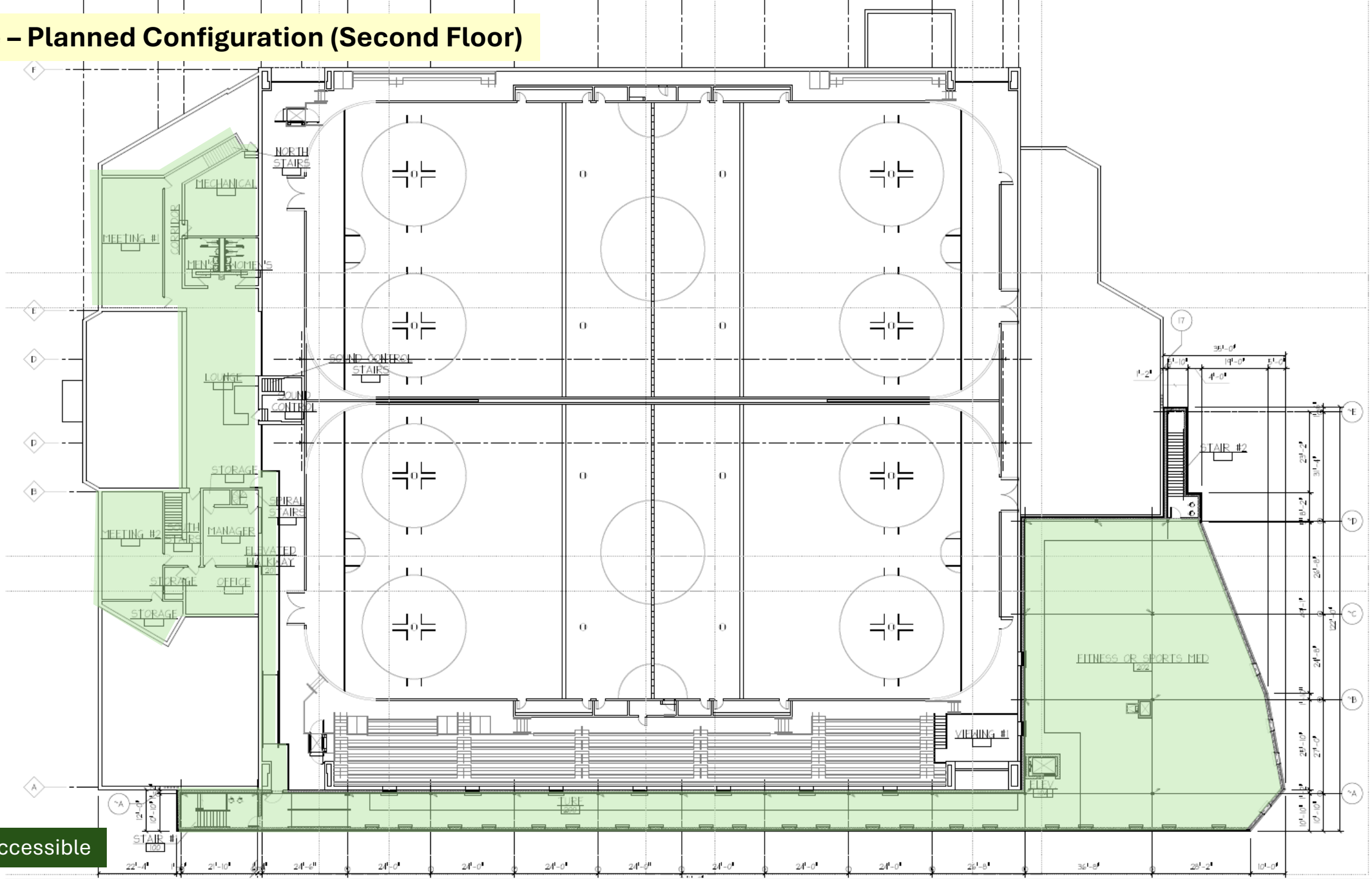


- **8** GP/Youth Locker Rooms
- 1 Girls Locker Room
- 1 Official/Referee Locker Room
- **3** High School Locker Rooms
- Under bleacher storage
- Coaches Room

Site – Planned Configuration (Second Floor)

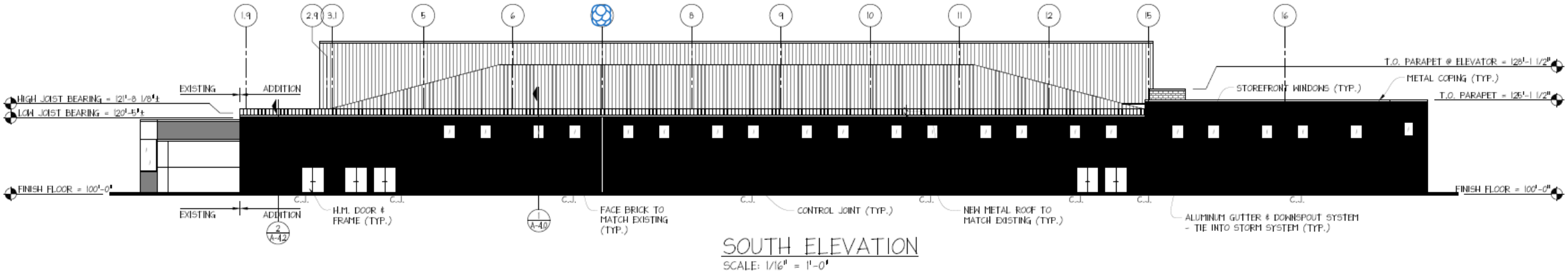


Site – Planned Configuration (Second Floor)



ADA Accessible

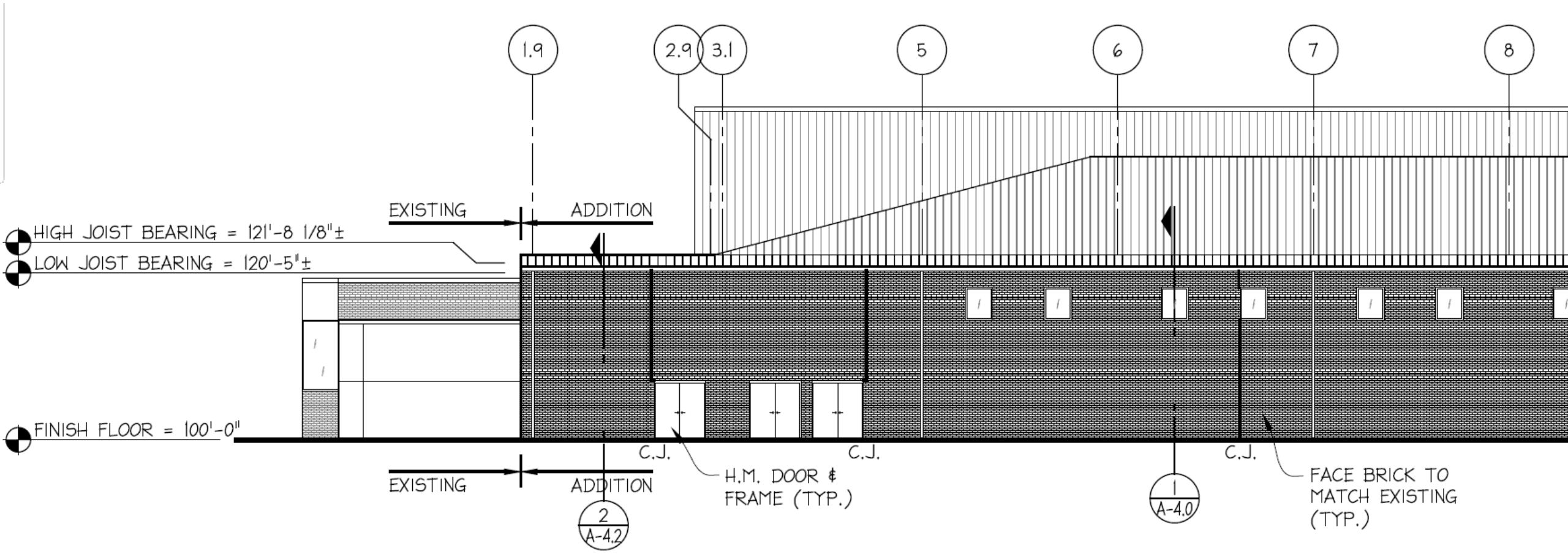
Planned Elevation - South



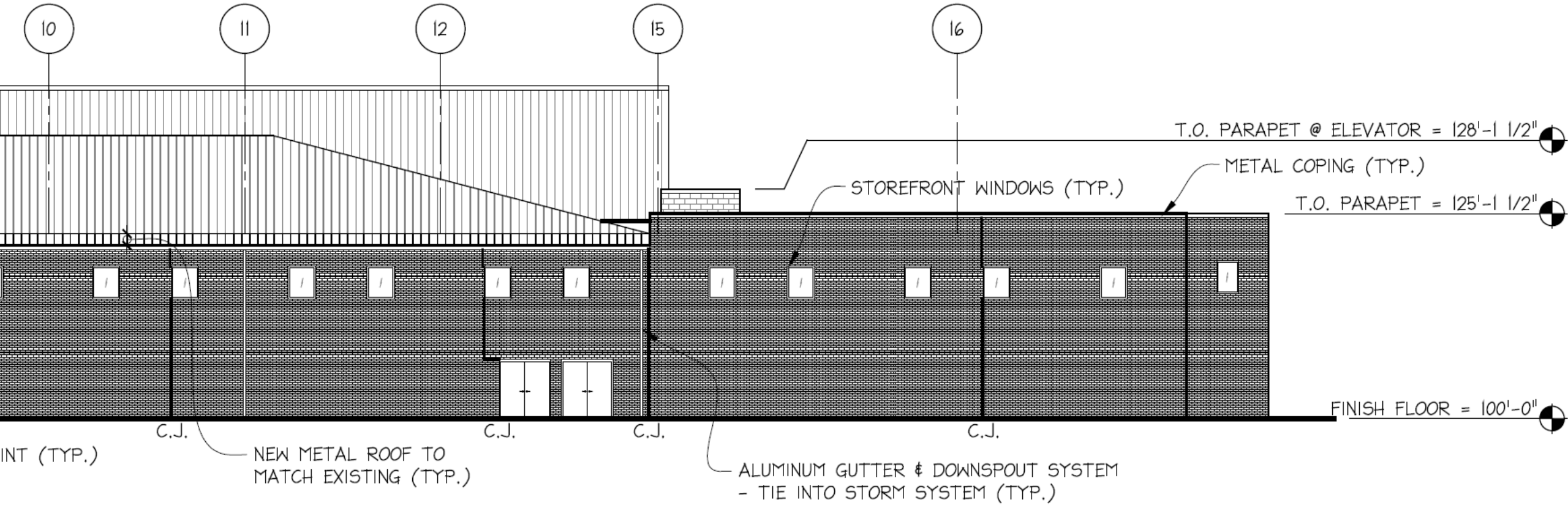
SOUTH ELEVATION

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

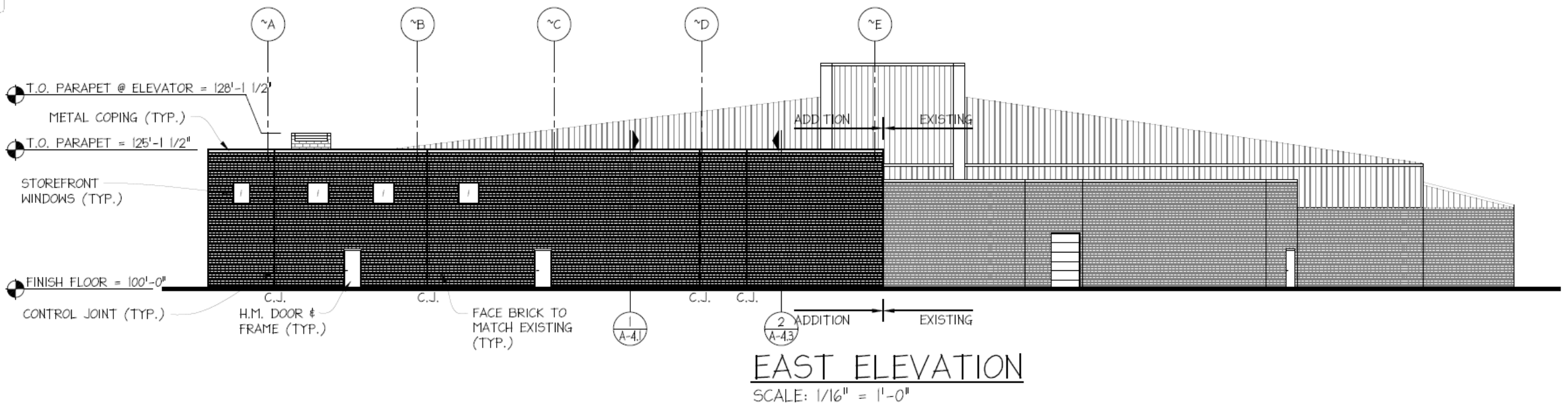
Planned Elevation – South (Detail – West End)



Planned Elevation – South (Detail – East End)



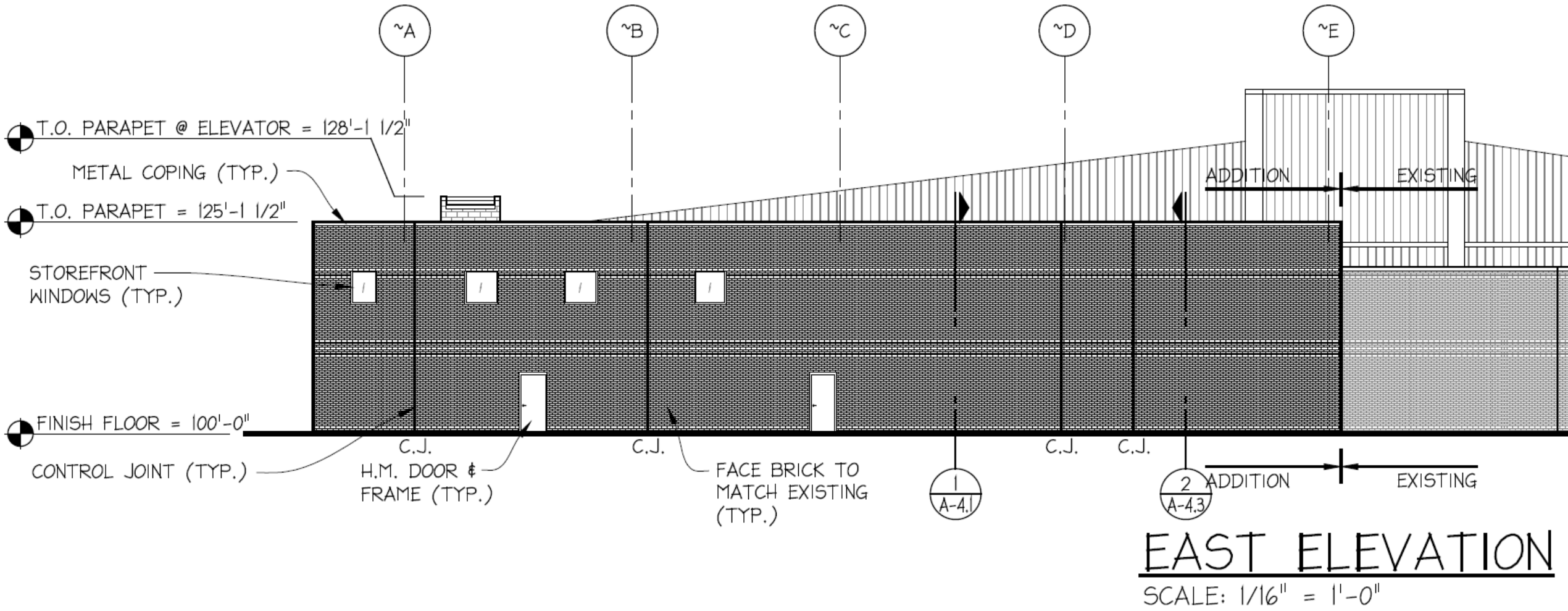
Planned Elevation - East



EAST ELEVATION

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

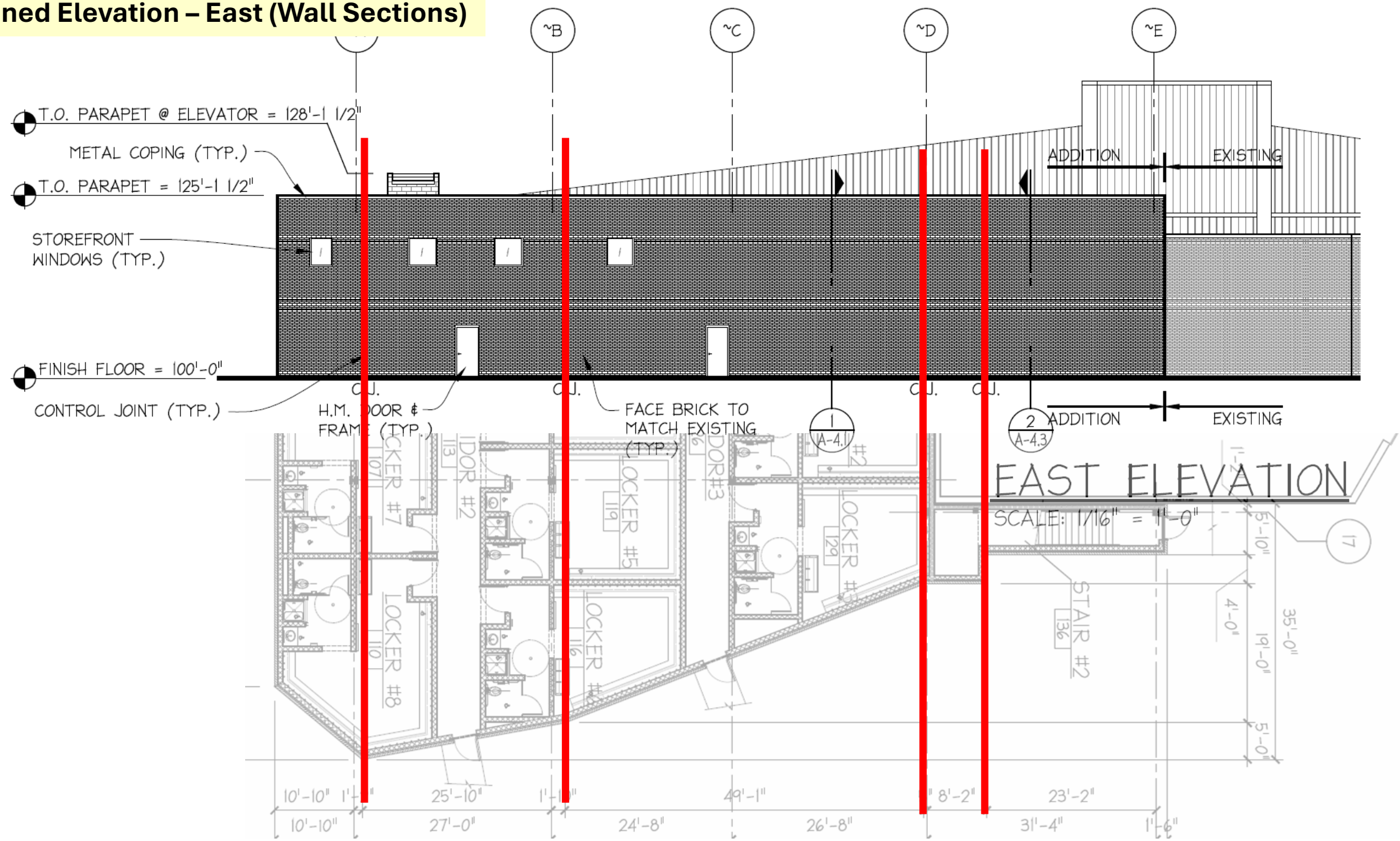
Planned Elevation – East (Detail)



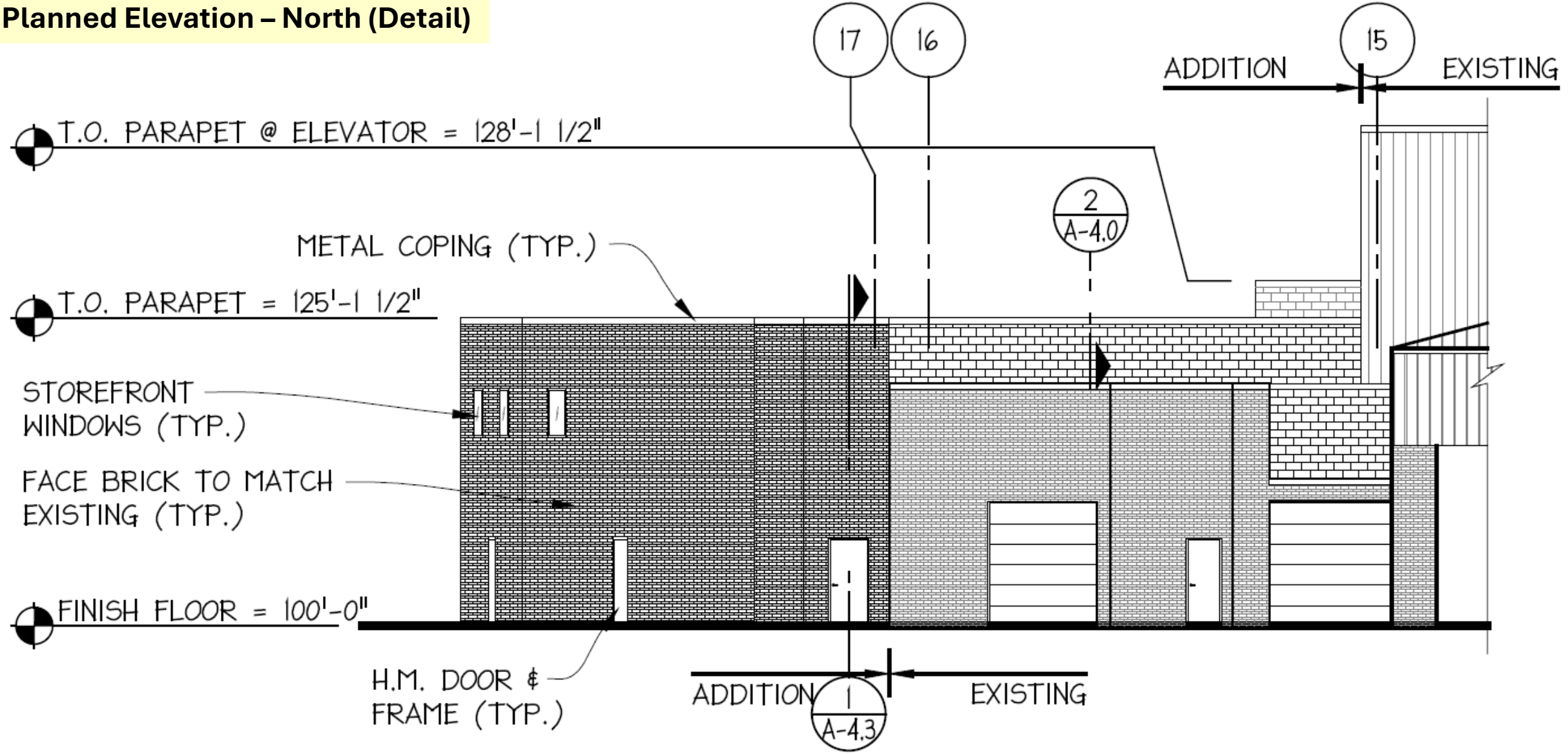
EAST ELEVATION

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

Planned Elevation – East (Wall Sections)



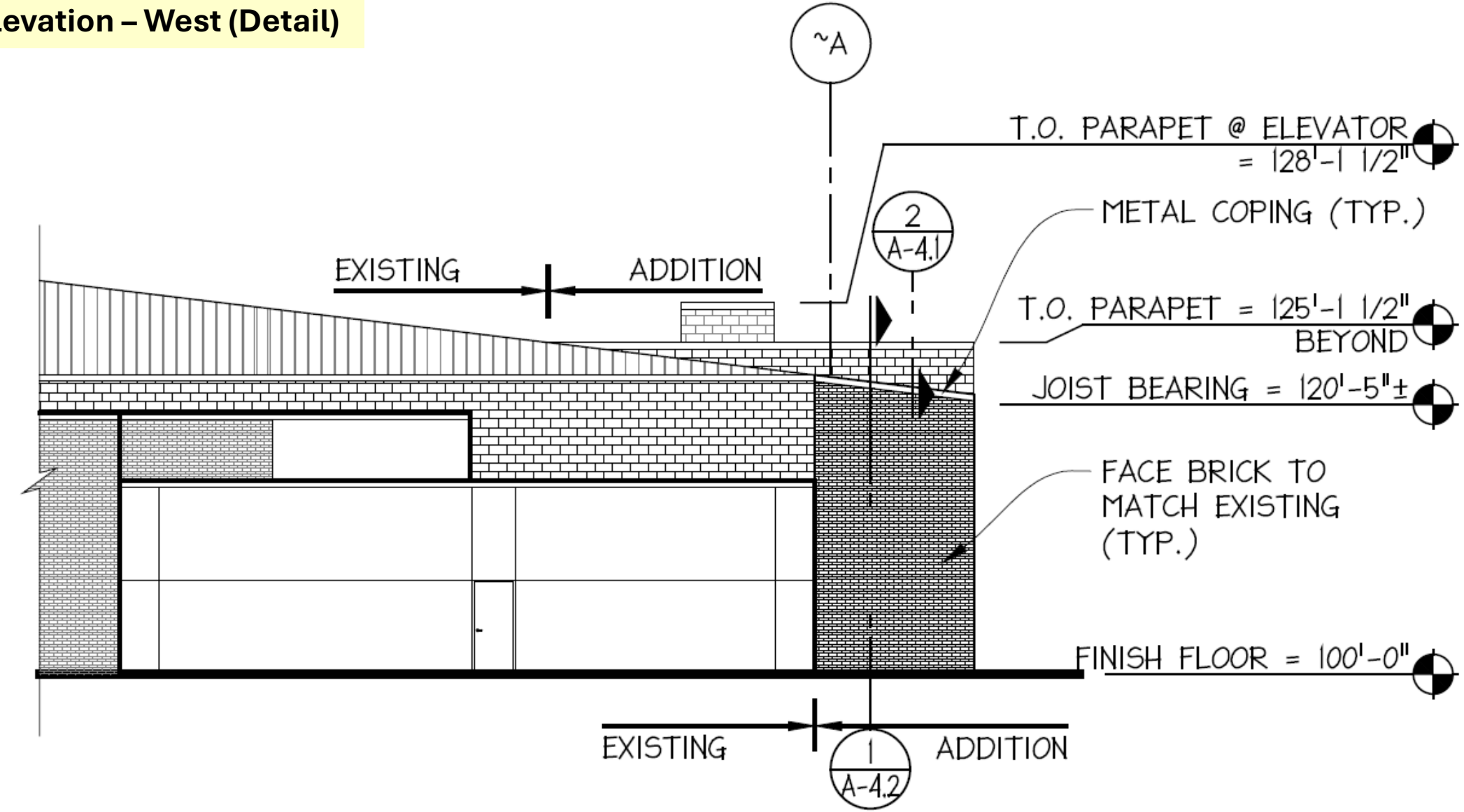
Planned Elevation – North (Detail)



NORTH ELEVATION

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

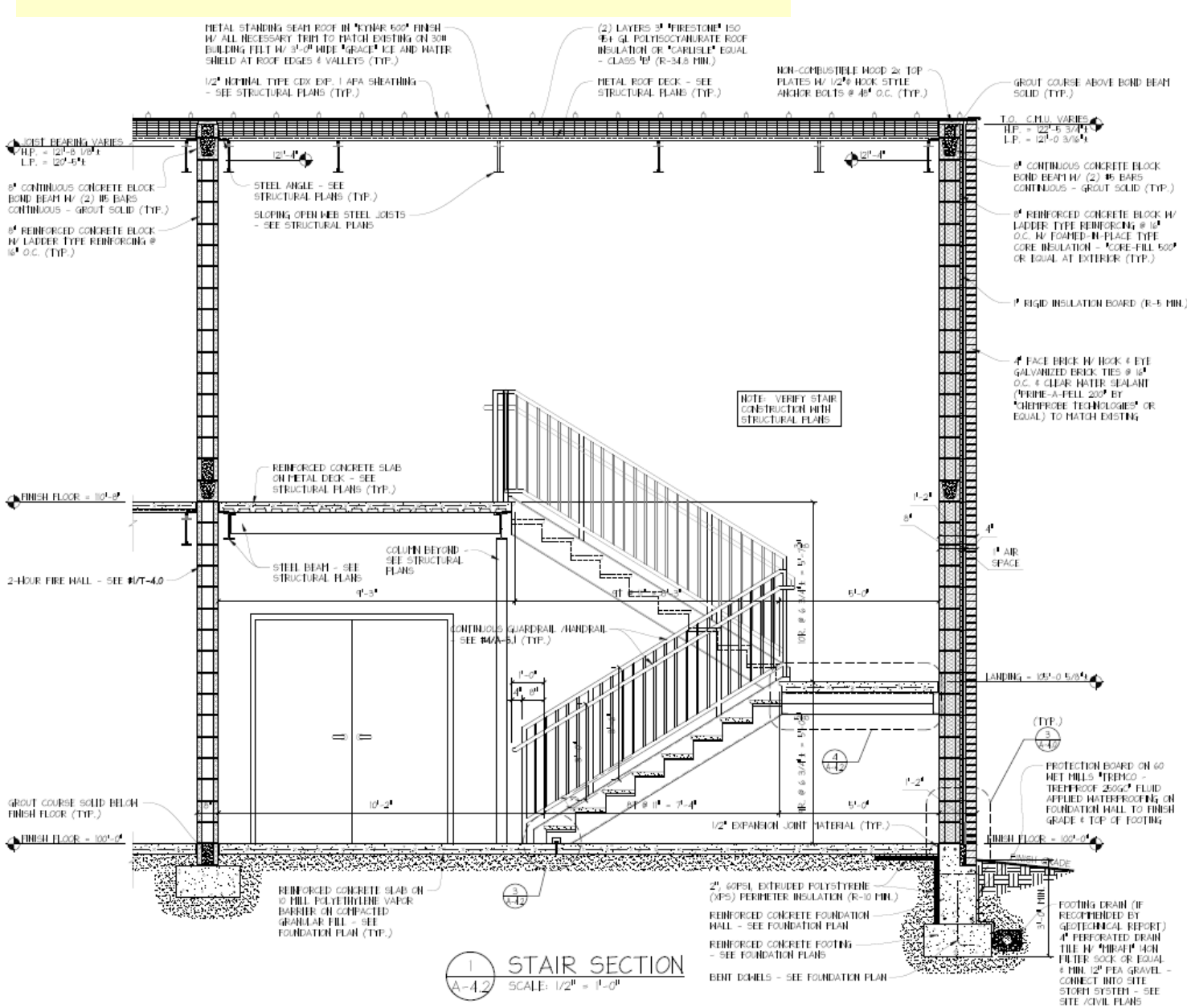
Planned Elevation – West (Detail)



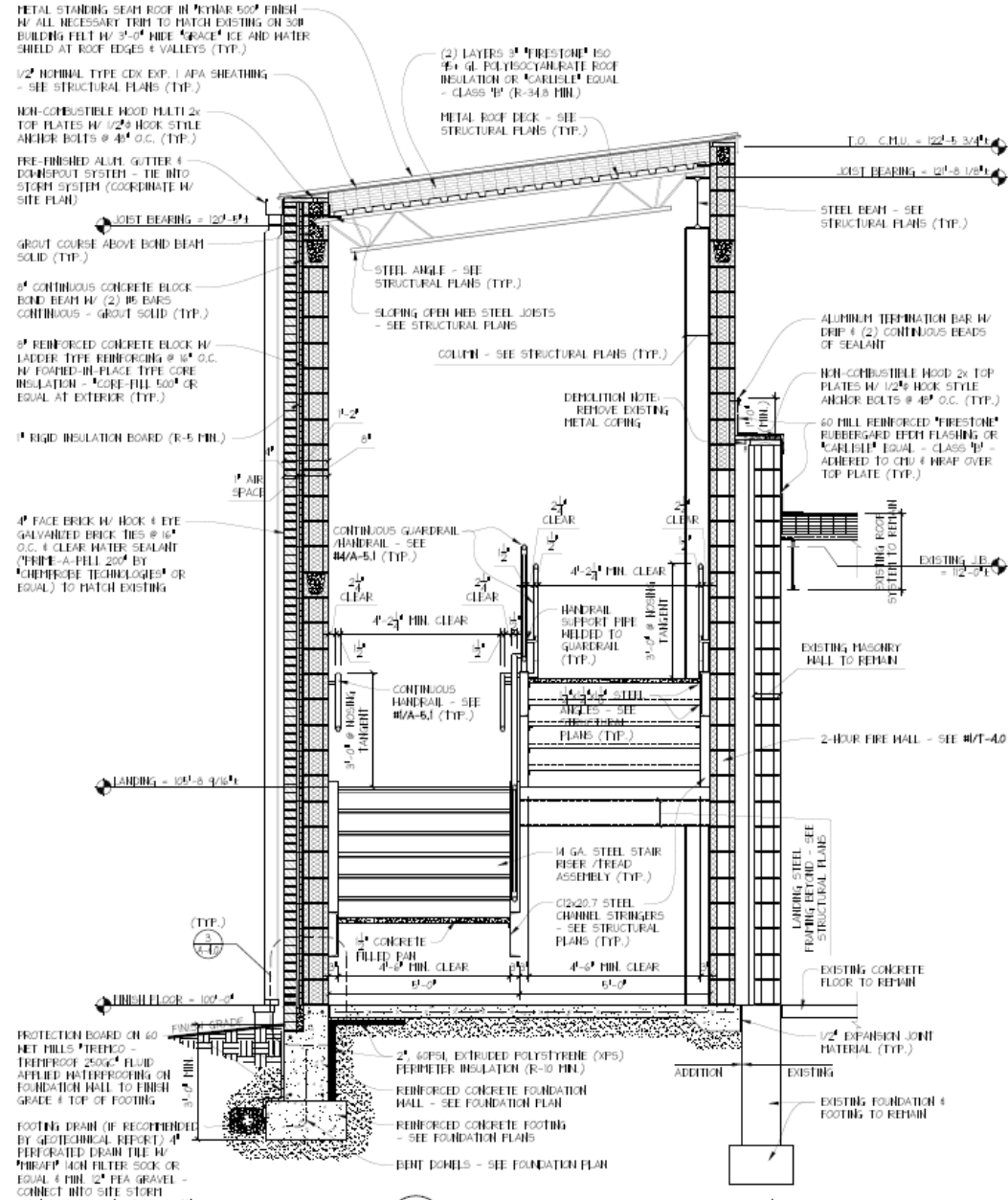
WEST ELEVATION

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

Planned Section – Western End/Stairwell

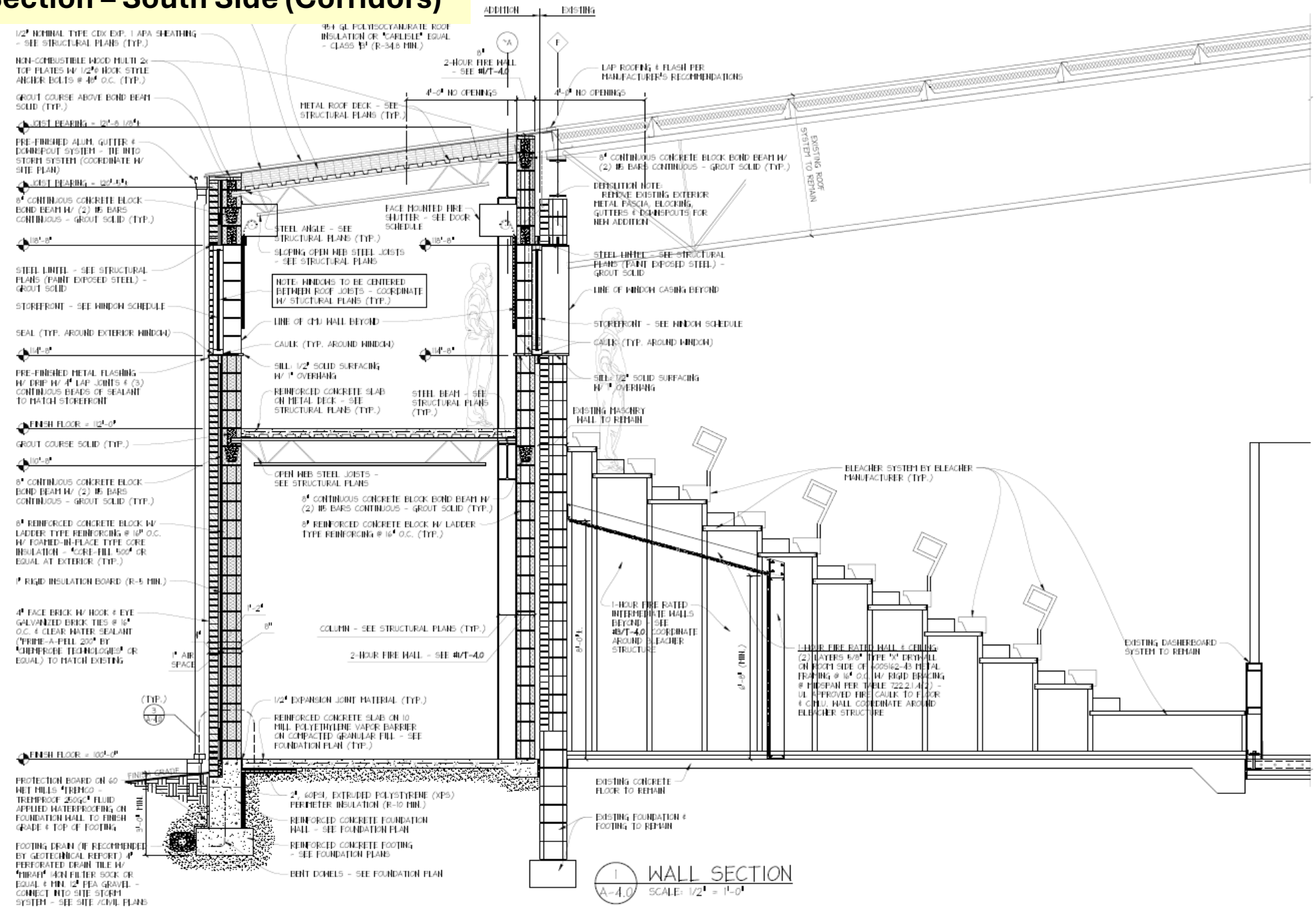


1 A-4.2 STAIR SECTION
SCALE: 1/2" = 1'-0"

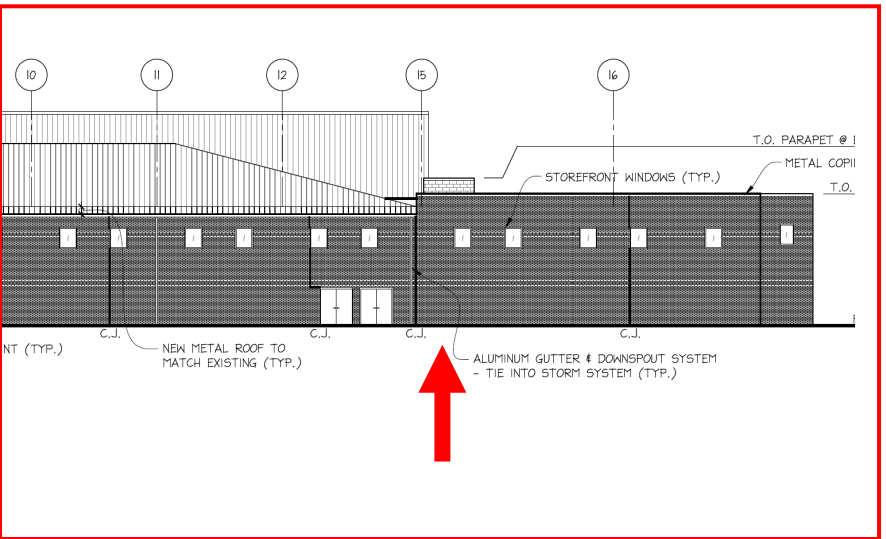


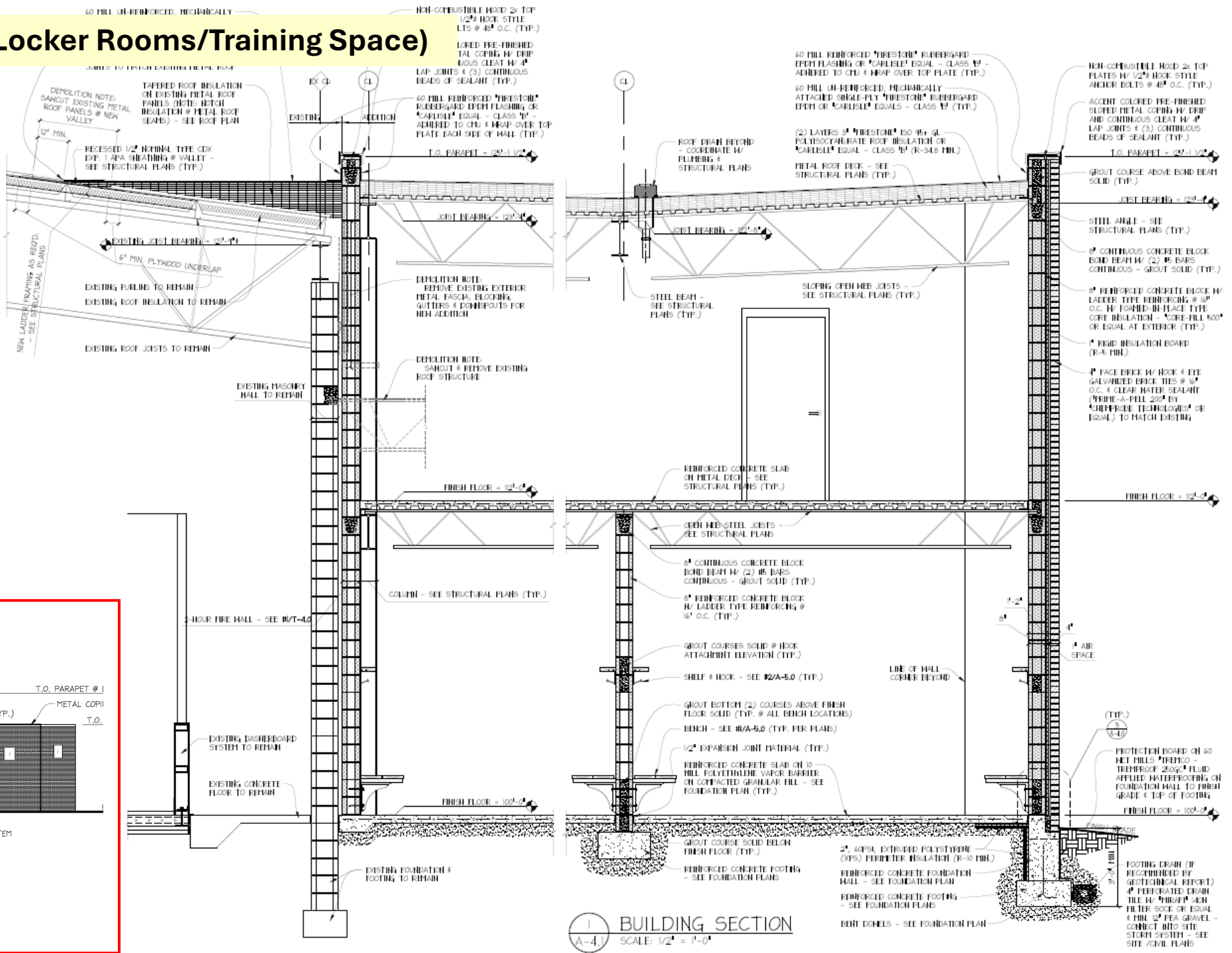
2 A-4.2 STAIR CROSS SECTION
SCALE: 1/2" = 1'-0"

Planned Section – South Side (Corridors)



Planned Section – East End (Locker Rooms/Training Space)

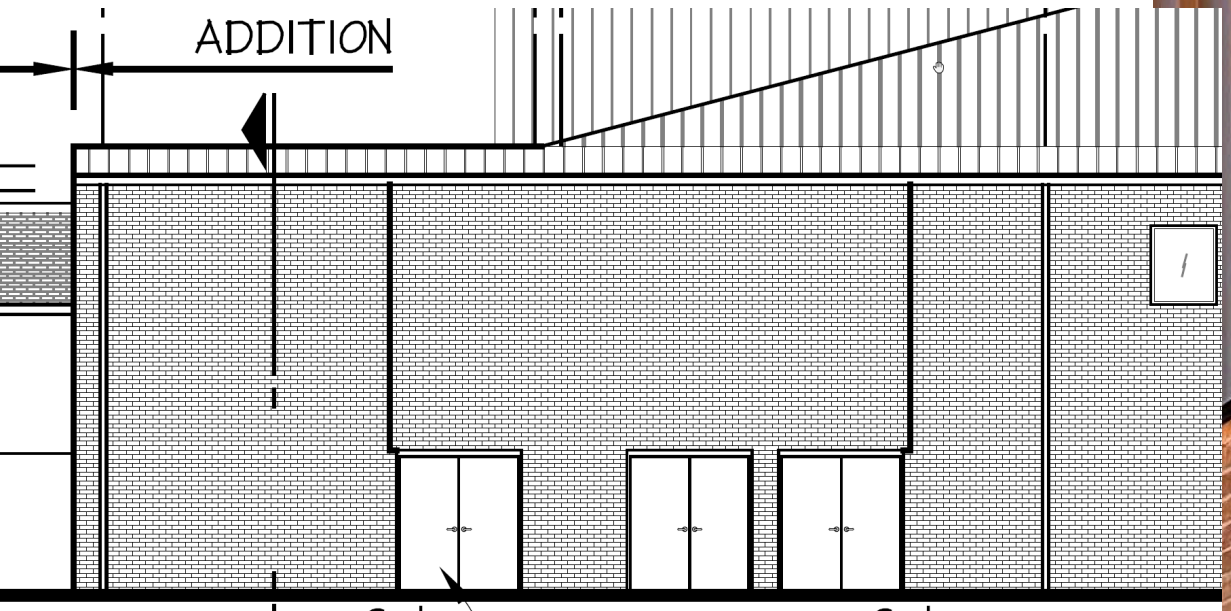


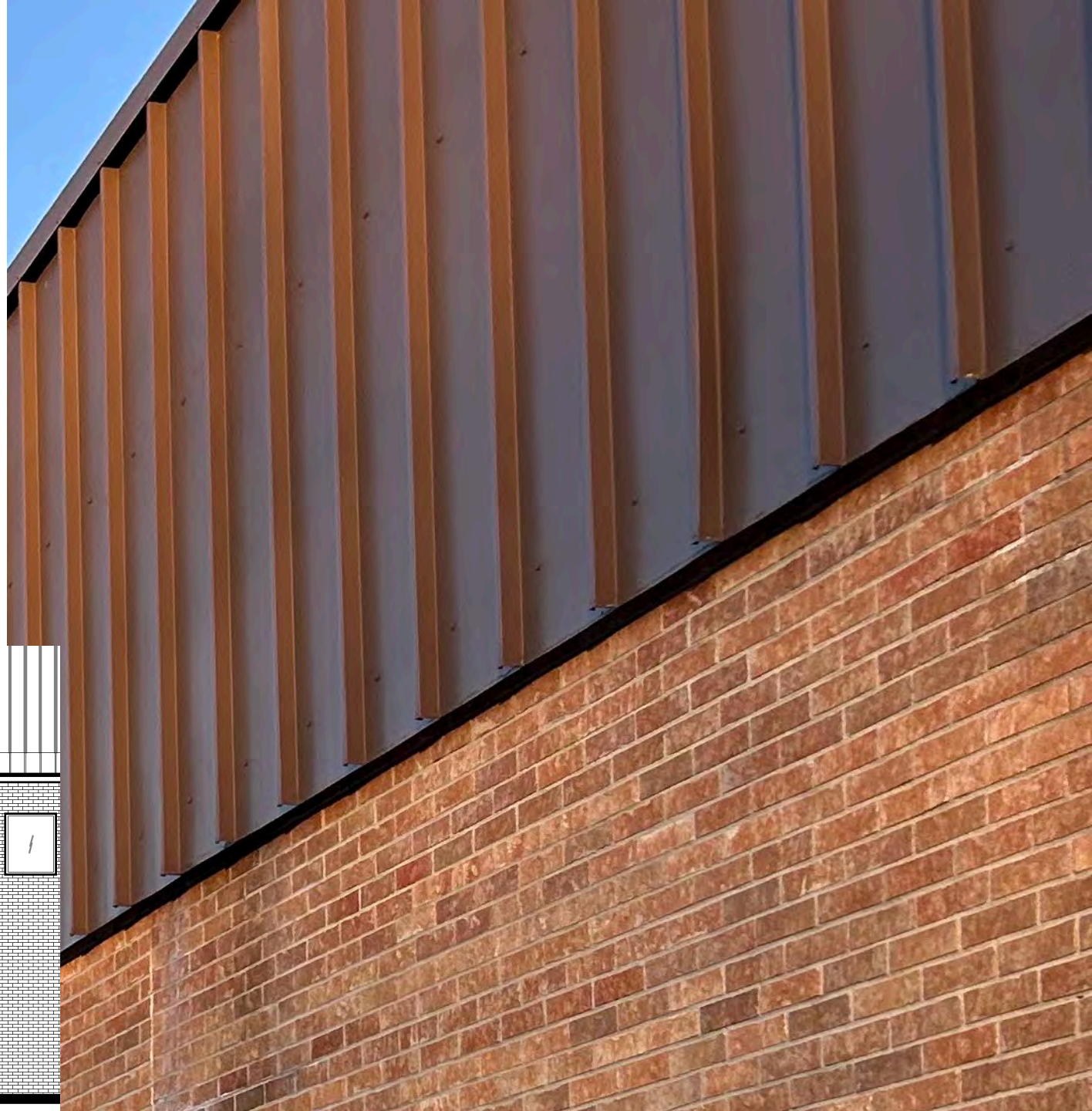


Materials - Exterior

Intention is to match/compliment existing:

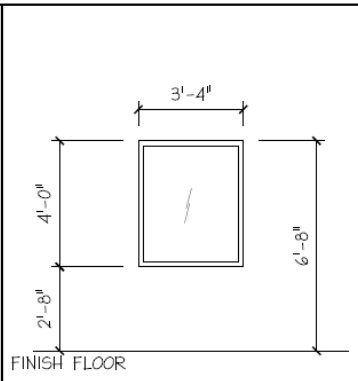
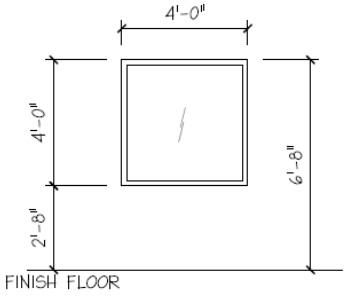
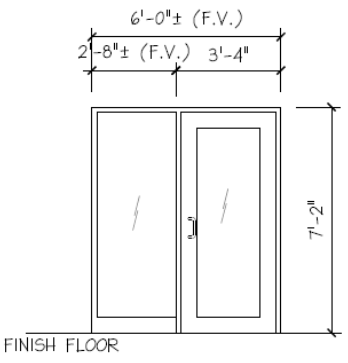
- (Existing) Brick
- (Brown) Metal finishes
- Windows/Doors
- Gutters/Flashing

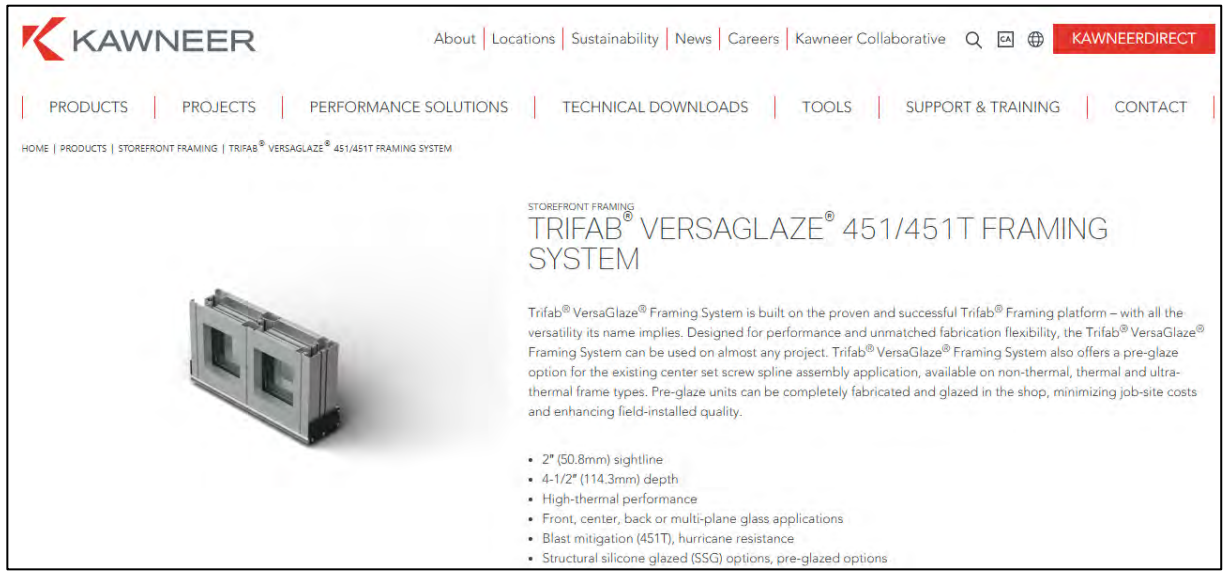


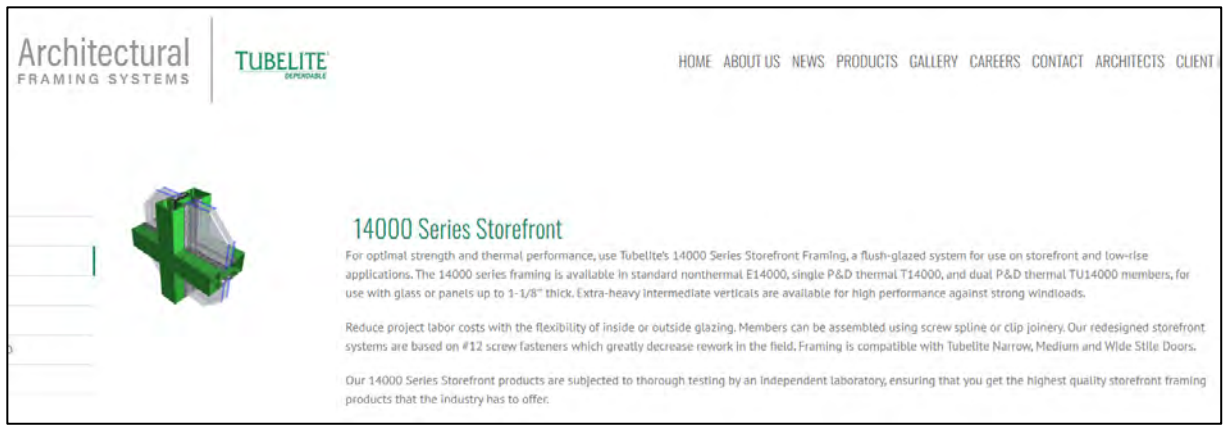


Materials - Exterior

DOOR FRAME /WINDOW SCHEDULE

SIZE			
TAG	A	B	C
TYPE	HOLLOW METAL	HOLLOW METAL	ALUMINUM
OPERATION	FIXED	FIXED	FIXED
GLAZING	1" INSULATED, LOW-E, TINTED, TEMPERED	1" INSULATED, CLEAR, TEMPERED	1" INSULATED, CLEAR, TEMPERED
RATING	----	----	----
FILM	----	----	----
QUANTITY (G.C. TO VERIFY)	25	9	1
MANUFACTURER /MODEL	KAWNEER TRI-FAB 451T OR TUBELITE T14000	KAWNEER TRI-FAB 451T OR TUBELITE T14000	KAWNEER TRI-FAB 451T OR TUBELITE T14000
FRAME COLOR	T.B.D.	T.B.D.	MATCH EXISTING
NOTES	----	----	----





Materials – Exterior (Cost Alternatives)

If standard brick is cost prohibitive:

- Metal Paneling (similar to existing)
- Split Face Block

Context – Local Recreational Facilities/Facades







Context – Refuse/Recycling Center Materials



Lighting/Landscaping/Signage

Parking Lot Lighting

Parking Lot Lighting

Sign

Sign

14740

Existing Signage Remounted





Streetlight

New Corner Sign (TBD)

Replace Street Trees

Streetlight

Streetlight

One-Way Traffic

Mural Replacement

inflatable images®

THE PASTIMES
WINTERHURST
3-2023

QTY 1 OF EACH
BRICKWRAP



KEY
47.6”h x 22.7”w

While every effort will be made to produce a product to match this rendering, slight variations may occur during the manufacturing process. The appearance of the final product may vary. Rendering copyright 2023 Scherba Industries, Inc.

1:8

181.7”h x 408”w



Intention to work with Artist to replace/reposition (resize) existing mural

Expanded Footprint – Context

West End (Not to scale/Illustration Only)



Expanded Footprint – Context

East End (Not to scale/Illustration Only)

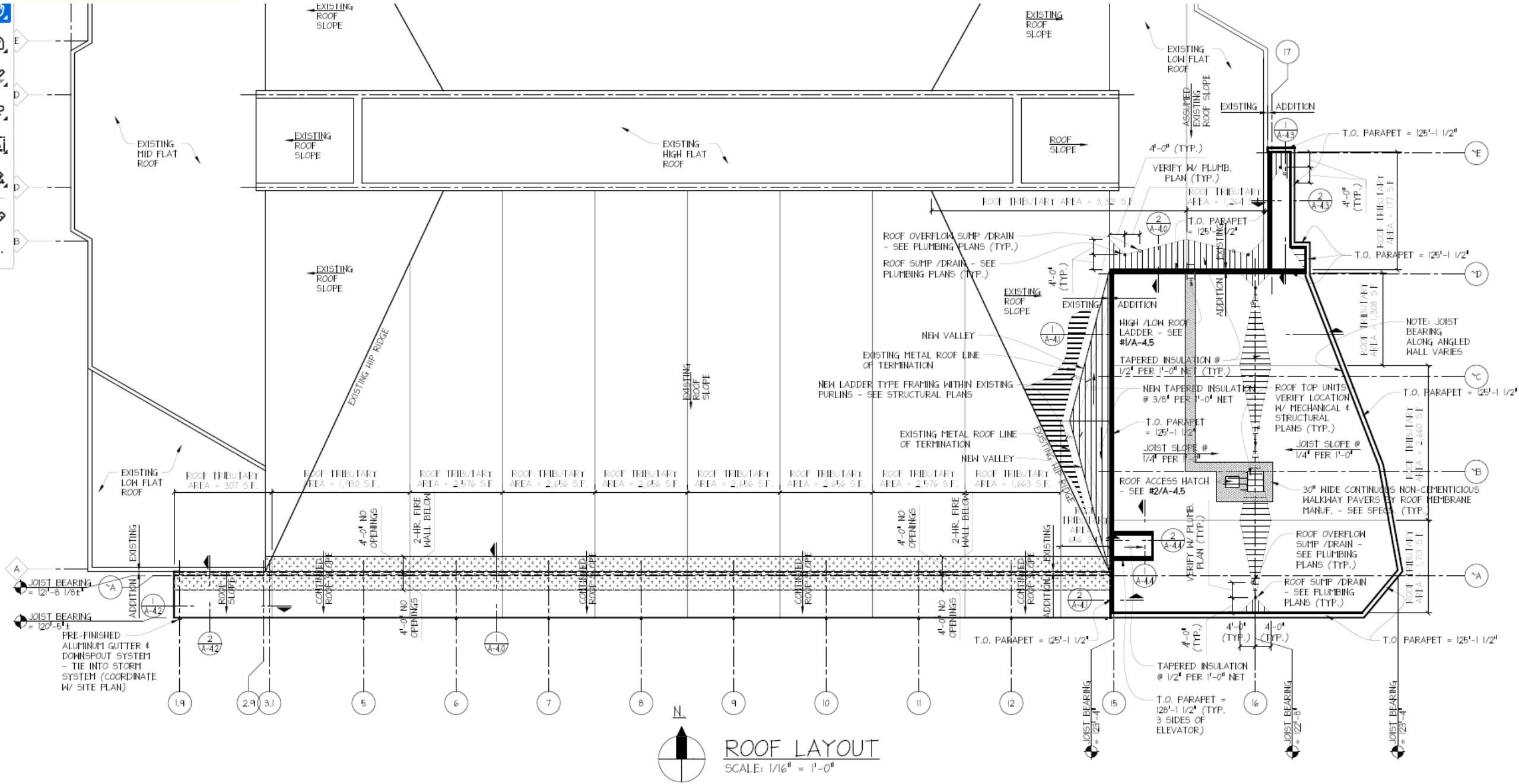


Expanded Footprint – Context

North End (Not to scale/Illustration Only)



Roof Plan

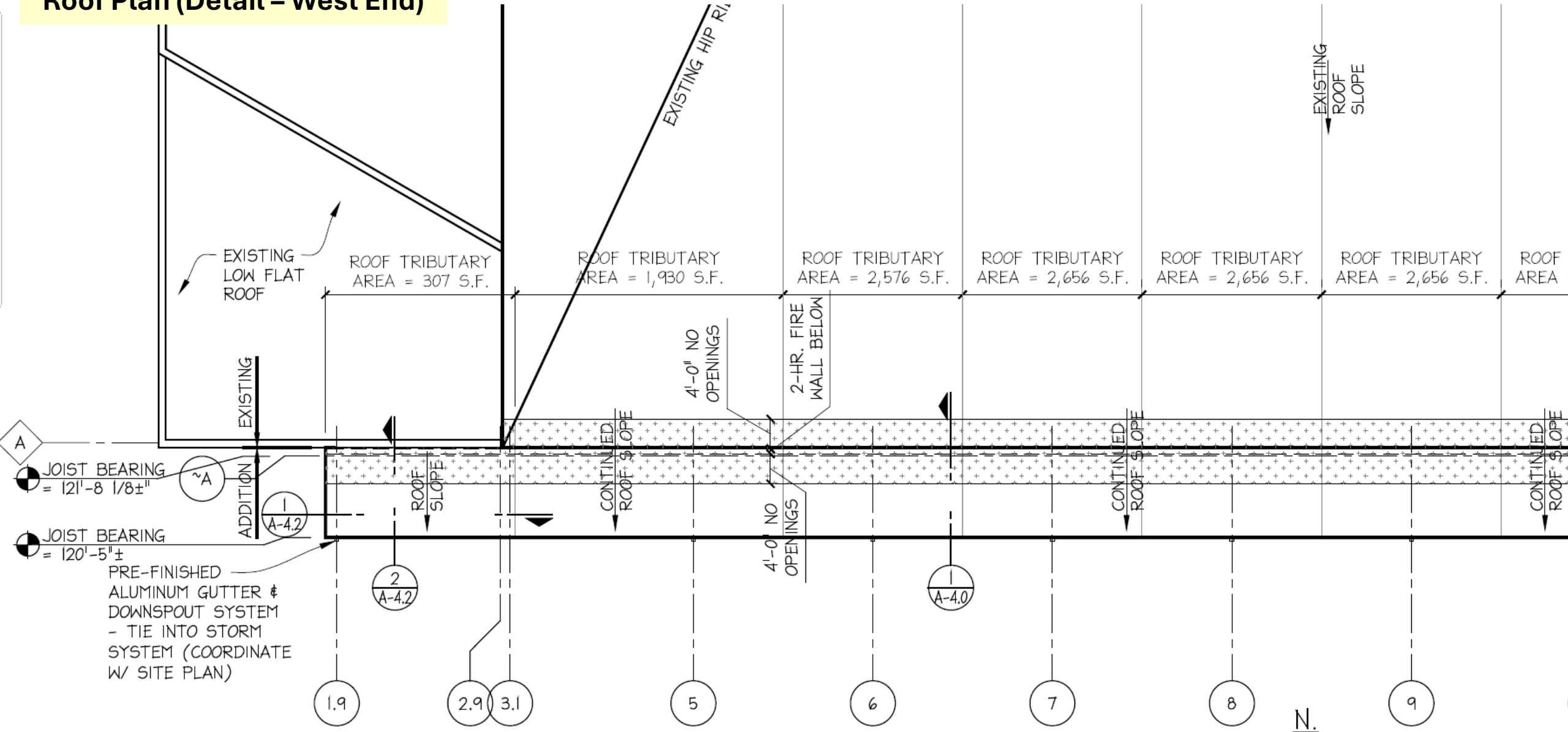


N.

ROOF LAYOUT

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

Roof Plan (Detail – West End)



ROOF LA

SCALE: 1/16" = 1

Roof Plan (Detail – East End)

