

TAX HAWK OFFICE AND BASKETBALL FACILITY

ARCHITECTURE DRAWING SET

PROJECT DATA

Project Type: New Construction (Core & Shell)

CIVIL RIGHTS
ADA Standards for Accessible Design, 2010

APPLICABLE CODES
International Building Code, including Appendix J (IBC), 2018
International Mechanical Code (IMC), 2018
International Plumbing Code (IPC), 2018
National Electrical Code (NEC), 2020
International Energy Conservation Code (IECC), 2018
ICC/ANSI A117.1
International Fire Code (IFC), 2018
International Fuel Gas Code (IFGC), 2018

CRITERIA

Occupancy Classification: GROUP 'B' AND GROUP 'A-3' W/O SPECTATORS

Separation of Occupancies: Not Separated

Construction Type: TYPE II-B

Sprinkled: YES

Building Height
Allowable Height (Stories/Feet): 4 / 75 FT
Actual Building Height (Stories/Feet): 3 / 52 FT

Building Area (insert floors as needed) 69,000 SQ.FT
1st Floor 29,071.75 Sq.ft
2nd Floor 23,030.29 Sq.ft
3rd Floor 22,247.45 Sq.ft
Total 74,349.49 Sq.ft

Allowable Building Area Calculation
Not Applicable (Existing building with no increase in square footage and no change in Occupancy)
Building Perimeter (P)
Building Perimeter on 20' min Public Way (F)

Fire-Resistance Ratings for Building Elements (IBC Table 601)

Construction Type: II B
Primary Structural Frame: 0 hr
Exterior Bearing Walls: 0 hr
Interior Bearing Walls: 0 hr
Exterior Non-Bearing Walls: 0 hr (Section 602)
Interior Non-Bearing Walls: 0 hr
Floor Construction & Associated Secondary Members: 0 hr
Roof Construction & Associated Secondary Members: 0 hr

Interior Exit Stairway (IBC Sec. 1023)
Exit Access Stairway (IBC Sec. 1019)
Two Story Vertical Openings (IBC Sec. 712.1.9)
Shafts (IBC Sec. 713.4)

Climate Zone: 5

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G100	COVER SHEET
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A101b	LEVEL 1 FLOOR PLAN-AREA B
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A102b	LEVEL 2 FLOOR PLAN-AREA B
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A311	WALL SECTIONS
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A602	DOOR AND WINDOW SCHEDULES
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A902	3D VIEWS
A903	3D VIEWS
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S101b	FOOTING PLAN
M101	LEVEL 1 MECHANICAL PLAN
E101	LEVEL 1 ELECTRICAL PLAN



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

CIVIL ENGINEERING
CIVIL ENGINEER
ADDRESS
PHONE

STRUCTURAL ENGINEERING
STRUCTURAL ENGINEER
ADDRESS
PHONE

MECHANICAL ENGINEERING
MECHANICAL ENGINEER
ADDRESS
PHONE

ELECTRICAL ENGINEERING
ELECTRICAL ENGINEER
ADDRESS
PHONE

Project Name:

TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

Client Name:



1366 E 1120th S
Provo, UT 84606

Project Number: 2022.08.22

Issued Date: 07 December, 2022

Drawn By: Aastha Shrestha

Checked By: Ar. Robert Pinon

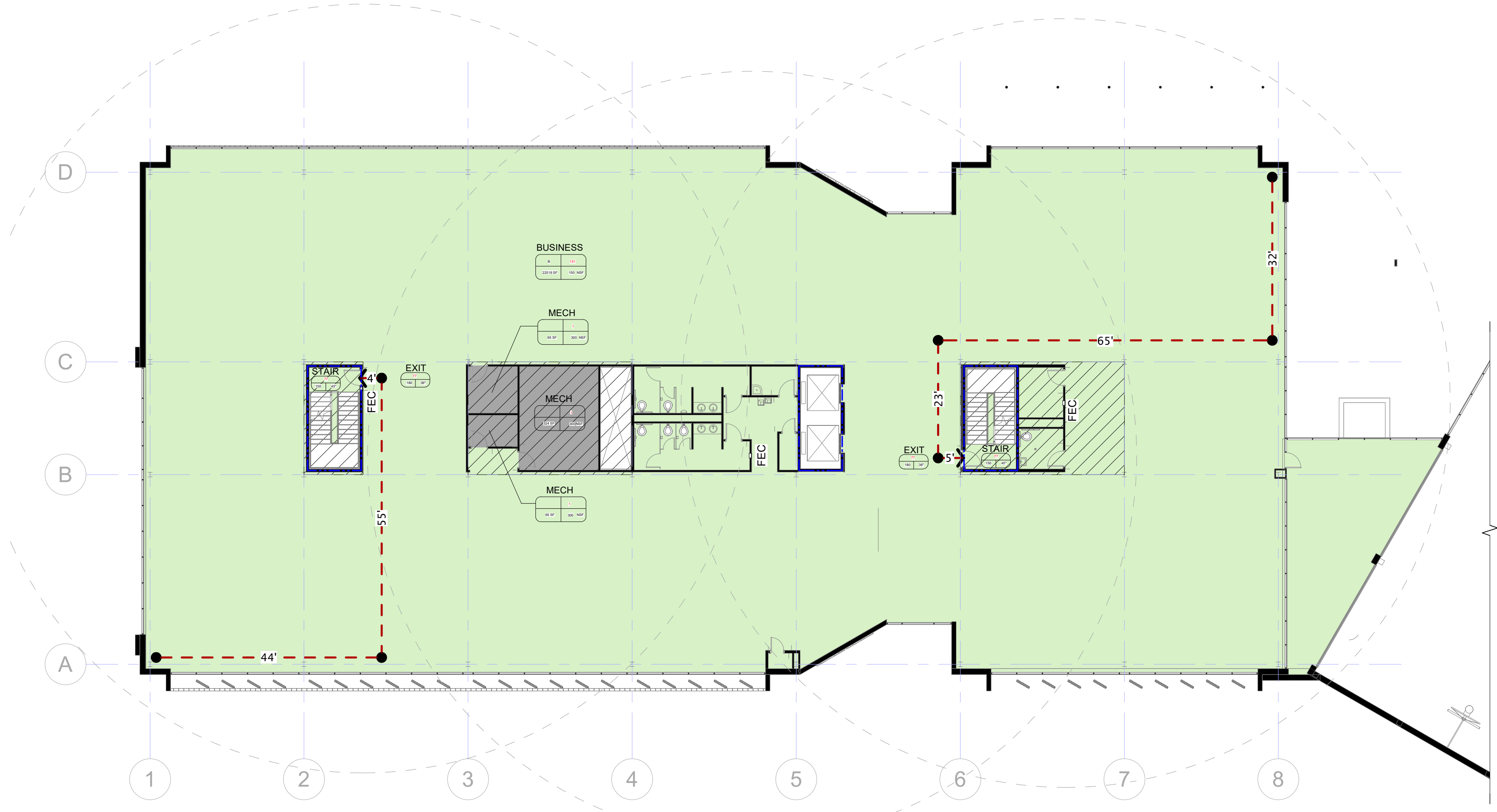
AREA FUNCTION (IBC 1004.1.2)

- BUSINESS
- GYMNASIUM
- MECH

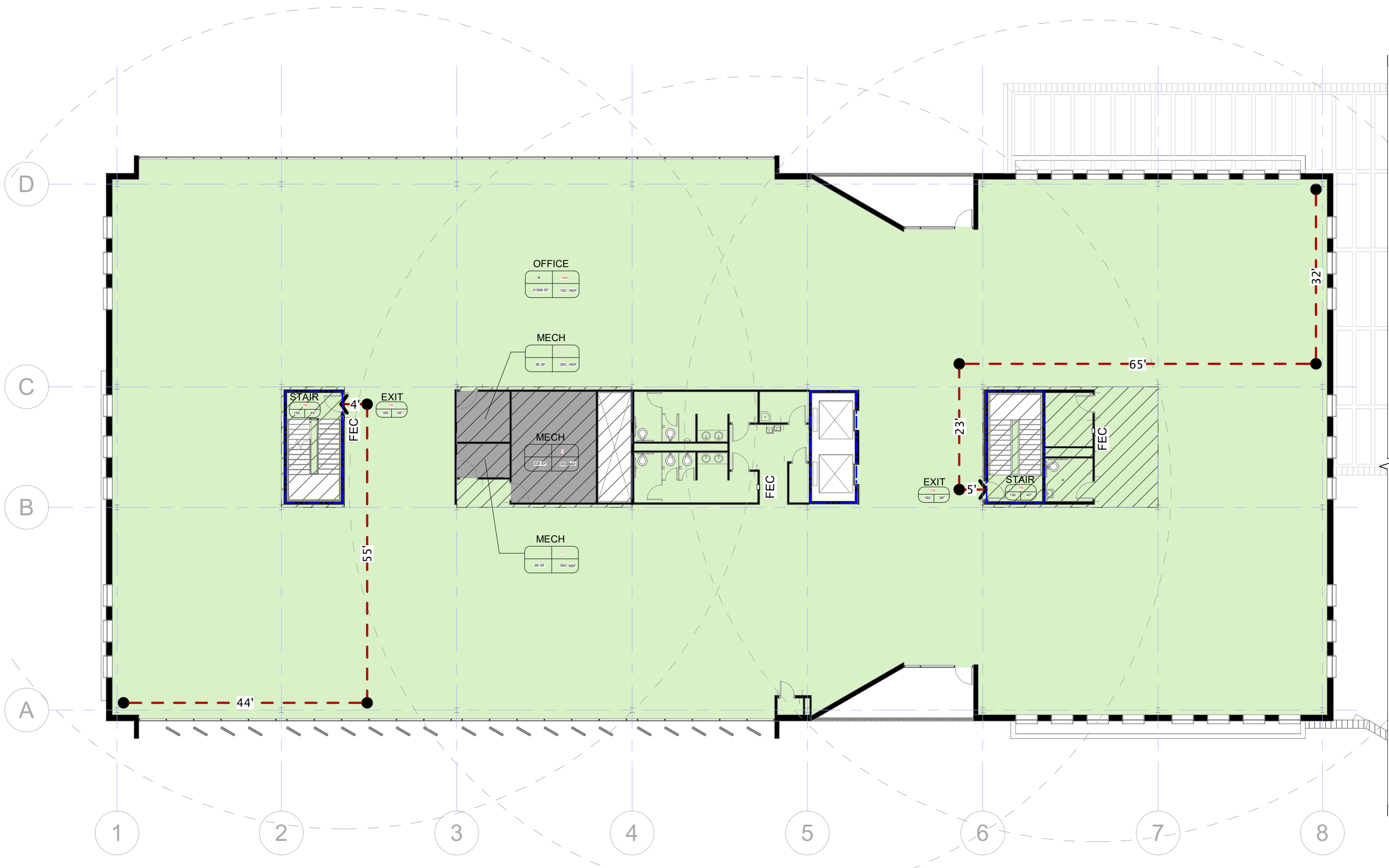


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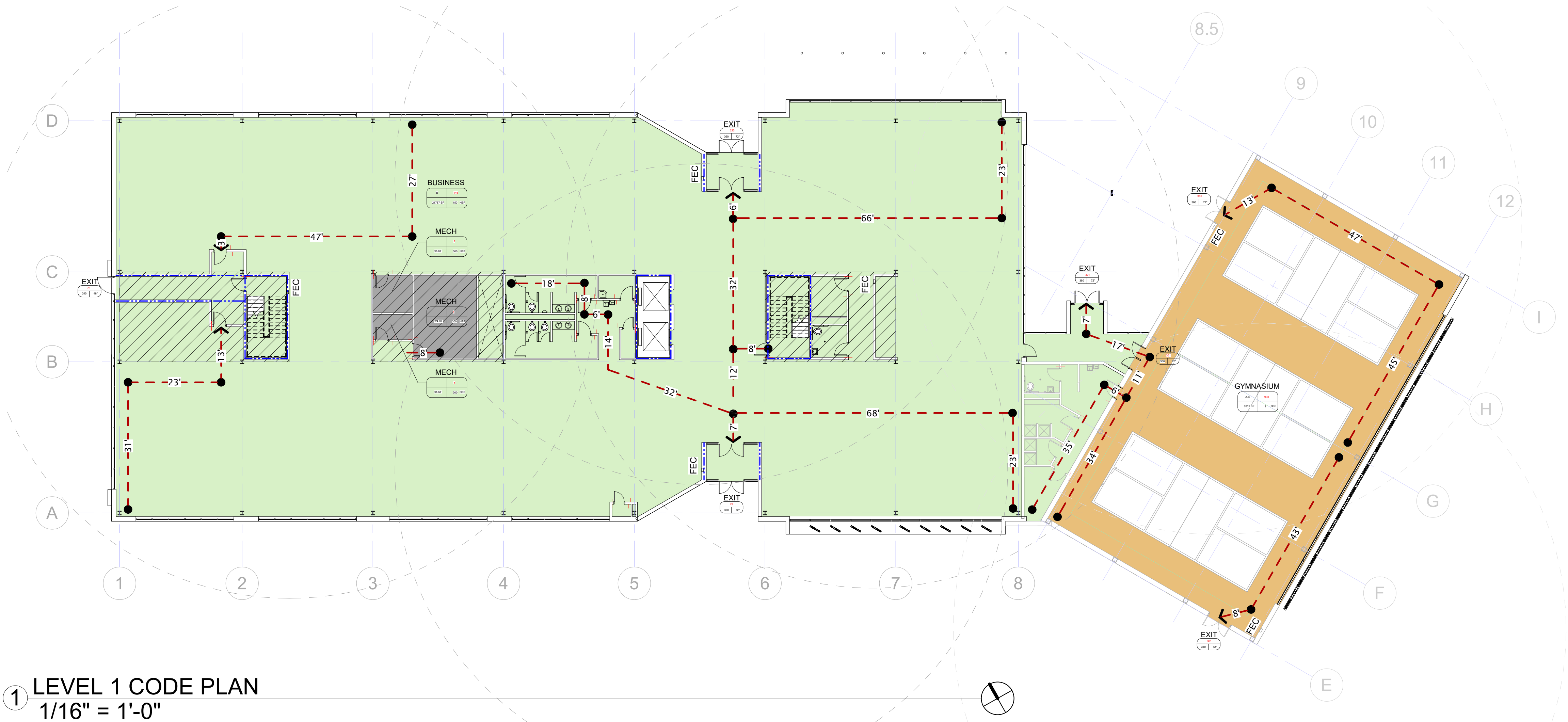
No.	Description	Date



2 LEVEL 2 CODE PLAN
1/16" = 1'-0"



3 LEVEL 3 CODE PLAN
1/16" = 1'-0"



1 LEVEL 1 CODE PLAN
1/16" = 1'-0"

LIFE SAFETY LEGEND

- AREA USE

B 38

5700 SF 150 NSF

SQUARE FOOTAGE
- OCCUPANCY GROUP

OCCUPANT LOAD

OCCUPANT LOAD FACTOR
GROSS: GSF NET: NS
- EXIT

183

335 67"

EXIT CAPACITY
- EXIT LOAD

EXIT WIDTH PROVIDED
- PATH OF TRAVEL

FIRE BARRIER - 2HR

SMOKE BARRIER - 1HR

SMOKE PARTITION

EXTENT OF 2 HR SPRAY
APPLIED FIRE
PROTECTION -
STRUCTURAL MEMBERS

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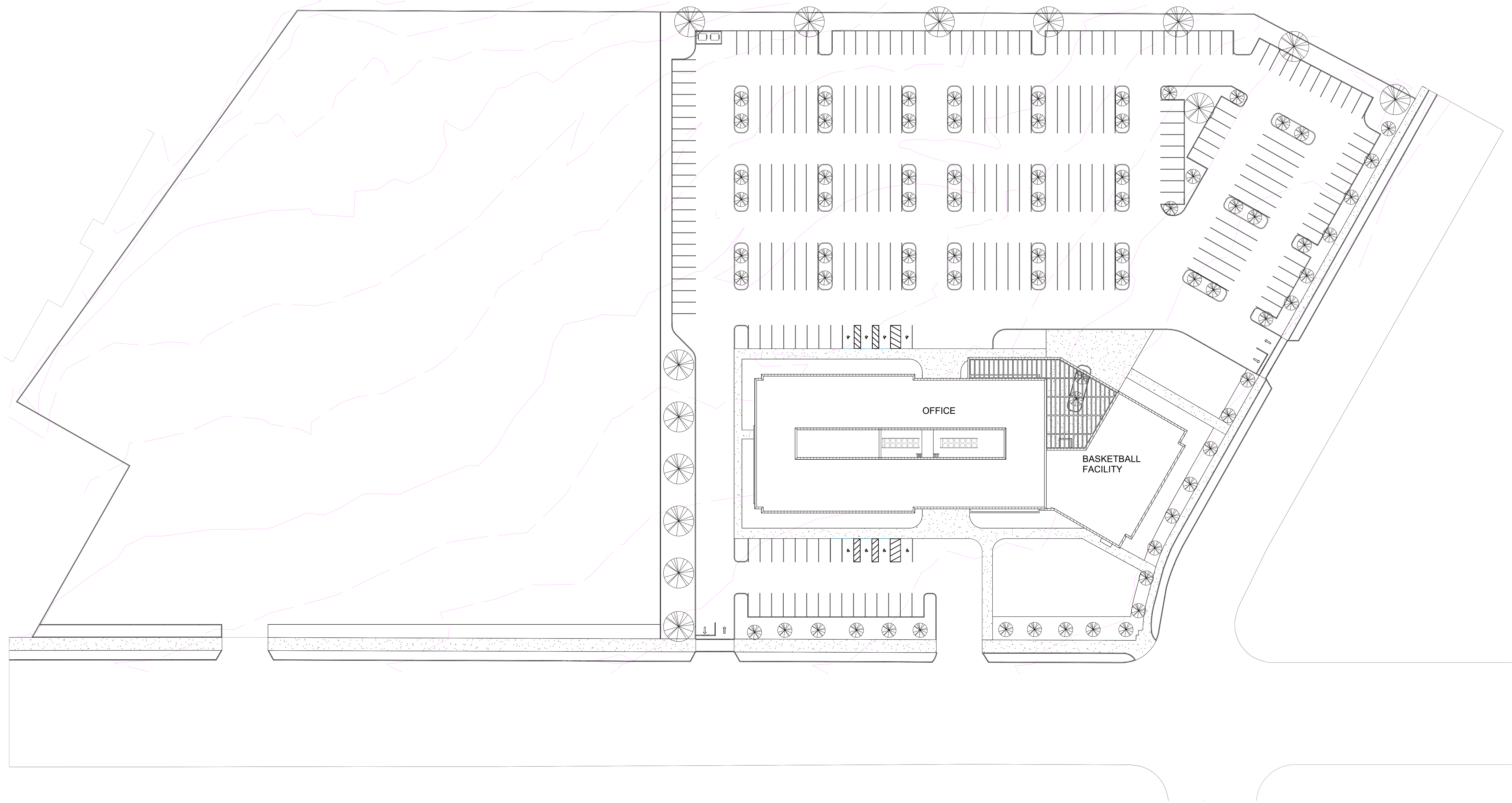
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LIFE SAFETY PLAN

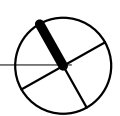


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No.	Description	Date



1 ARCHITECTURAL SITE PLAN
1" = 40'-0"



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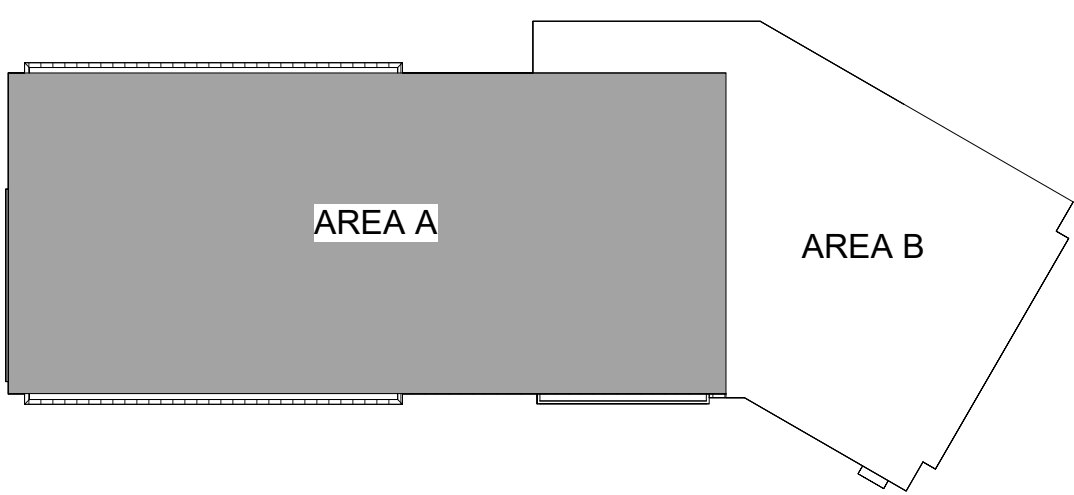
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ARCHITECTURAL SITE
PLAN

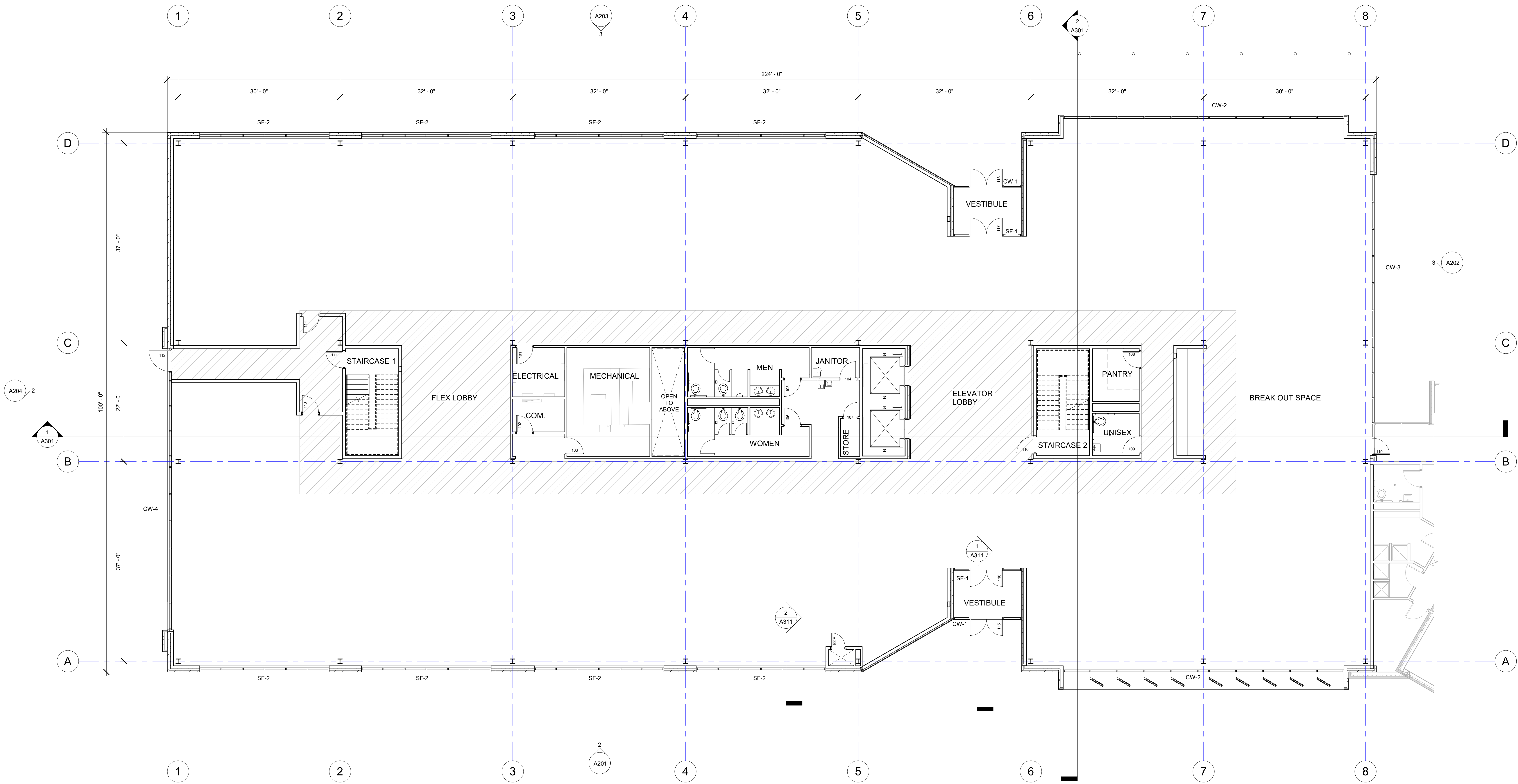


KEY PLAN



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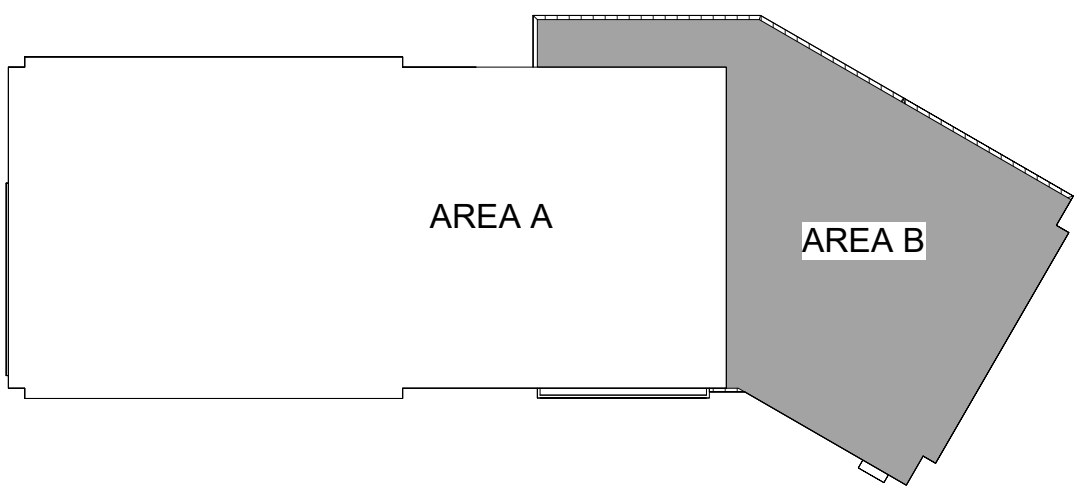
1 LEVEL 1 FLOOR PLAN-AREA A
1/8" = 1'-0"

Project Name:
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LEVEL 1 FLOOR
PLAN-AREA A

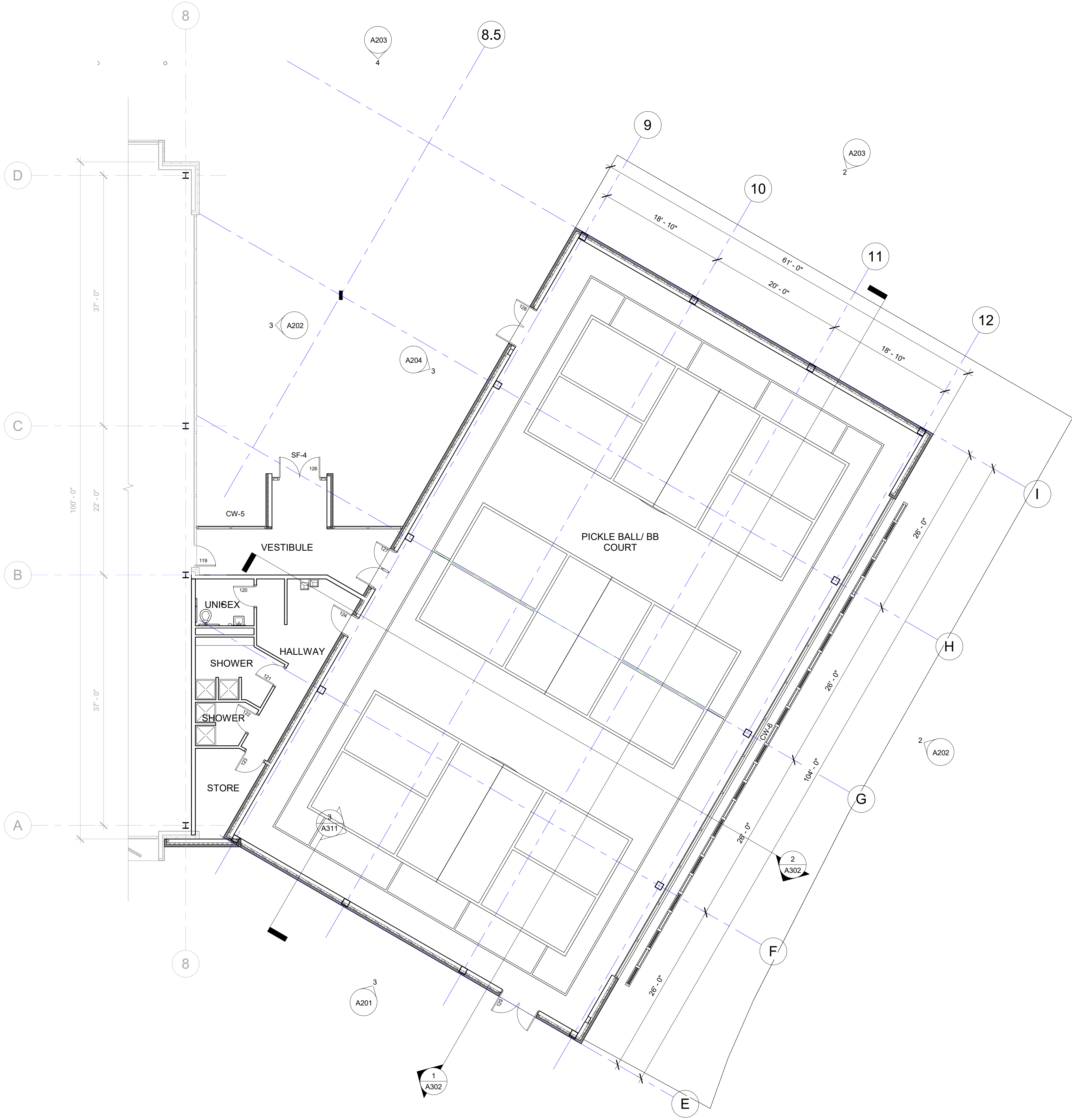


KEY PLAN



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No.	Description	Date



2 LEVEL 1 FLOOR PLAN-AREA B
1/8" = 1'-0"

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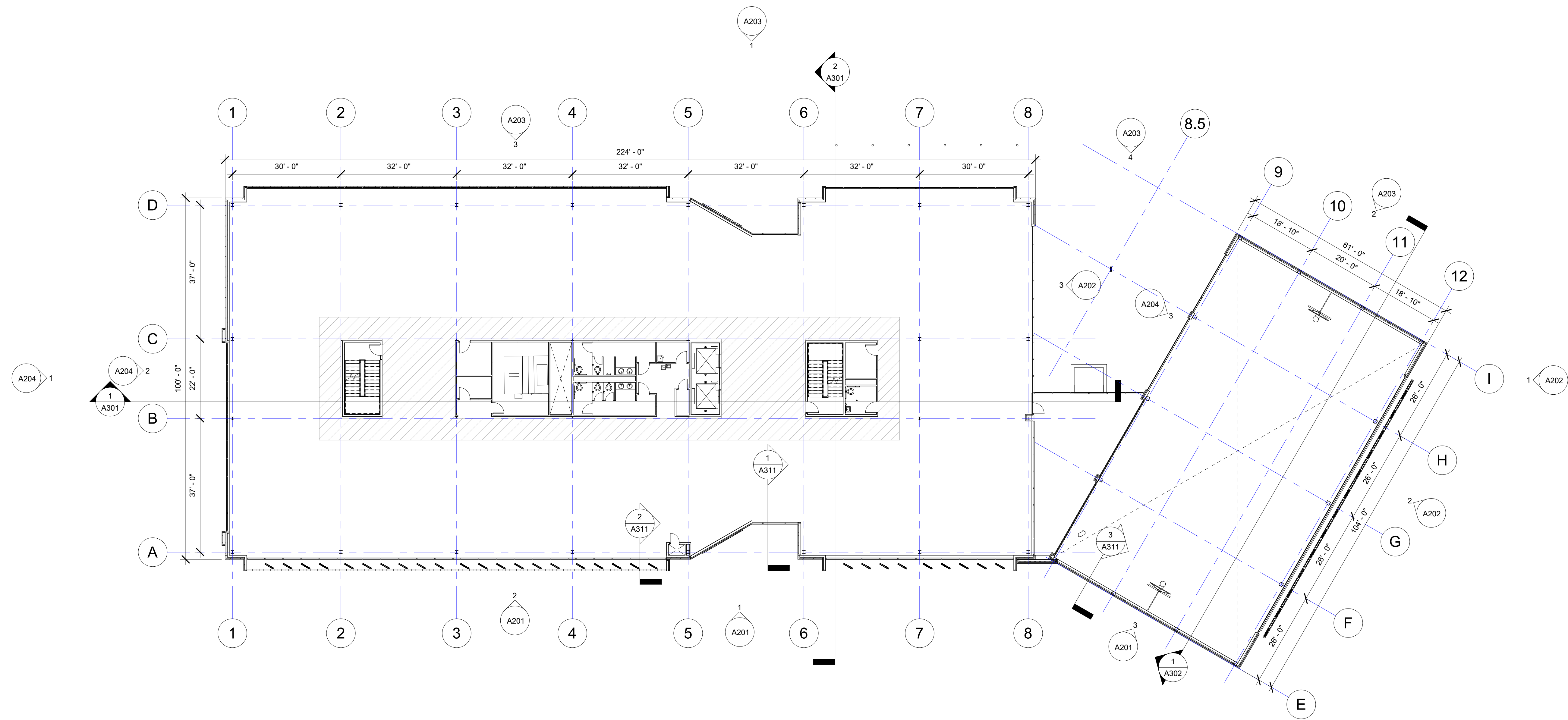
Checked By: Ar. Robert Pinon

LEVEL 1 FLOOR
PLAN-AREA B



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No.	Description	Date



1 LEVEL 2 OVERALL FLOOR PLAN
1/16" = 1'-0"

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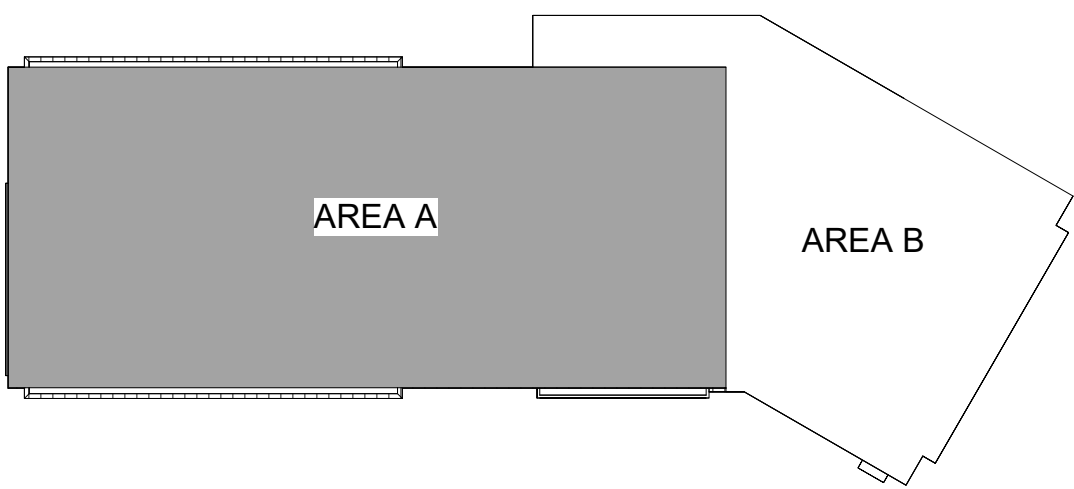
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OVERALL PLAN LEVEL 2

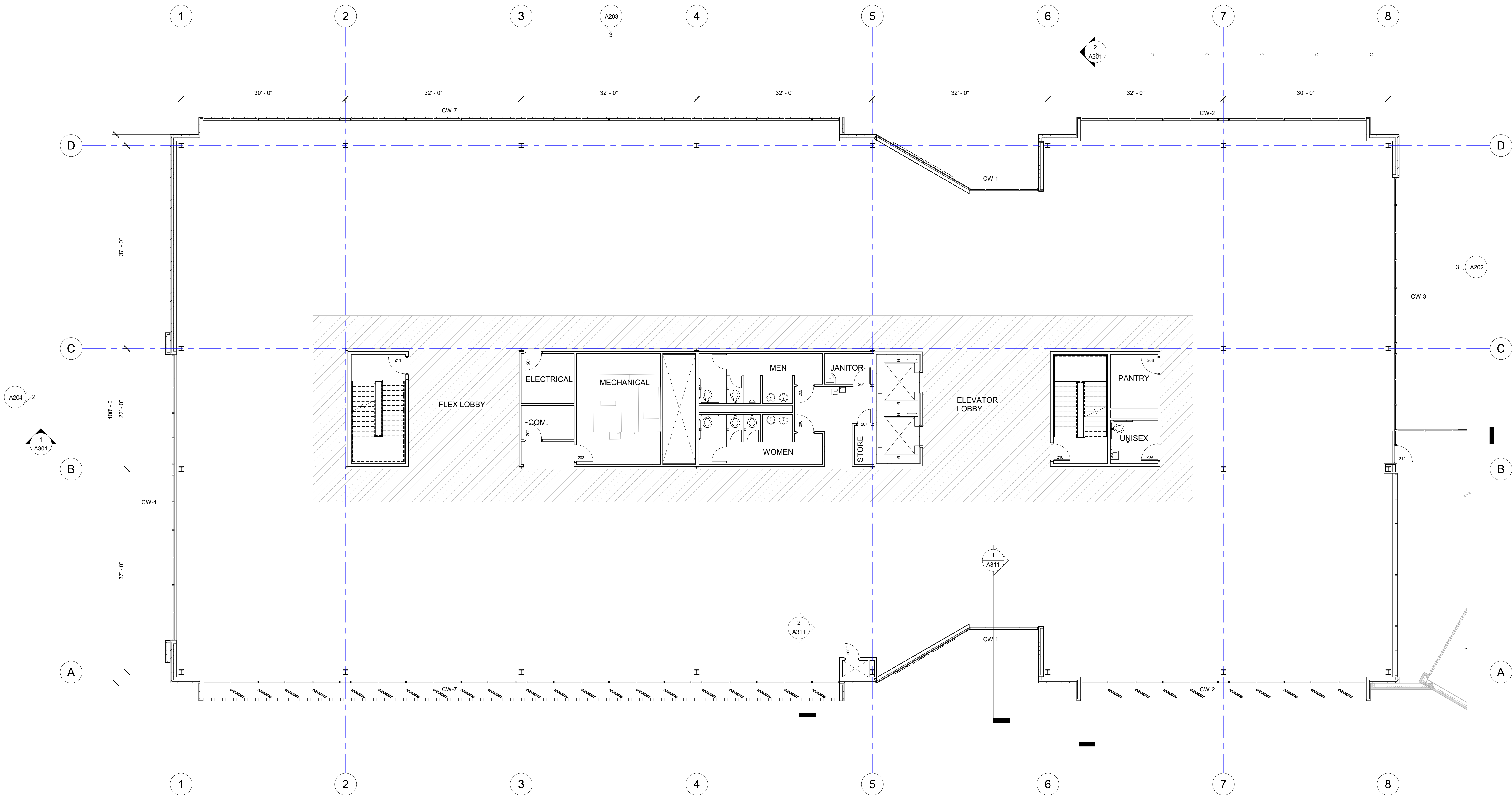


KEY PLAN



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1 LEVEL 2 FLOOR PLAN-AREA A
1/8" = 1'-0"

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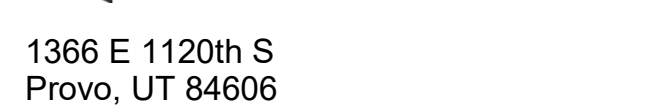
LEVEL 2 FLOOR
PLAN-AREA A



Project Name: _____

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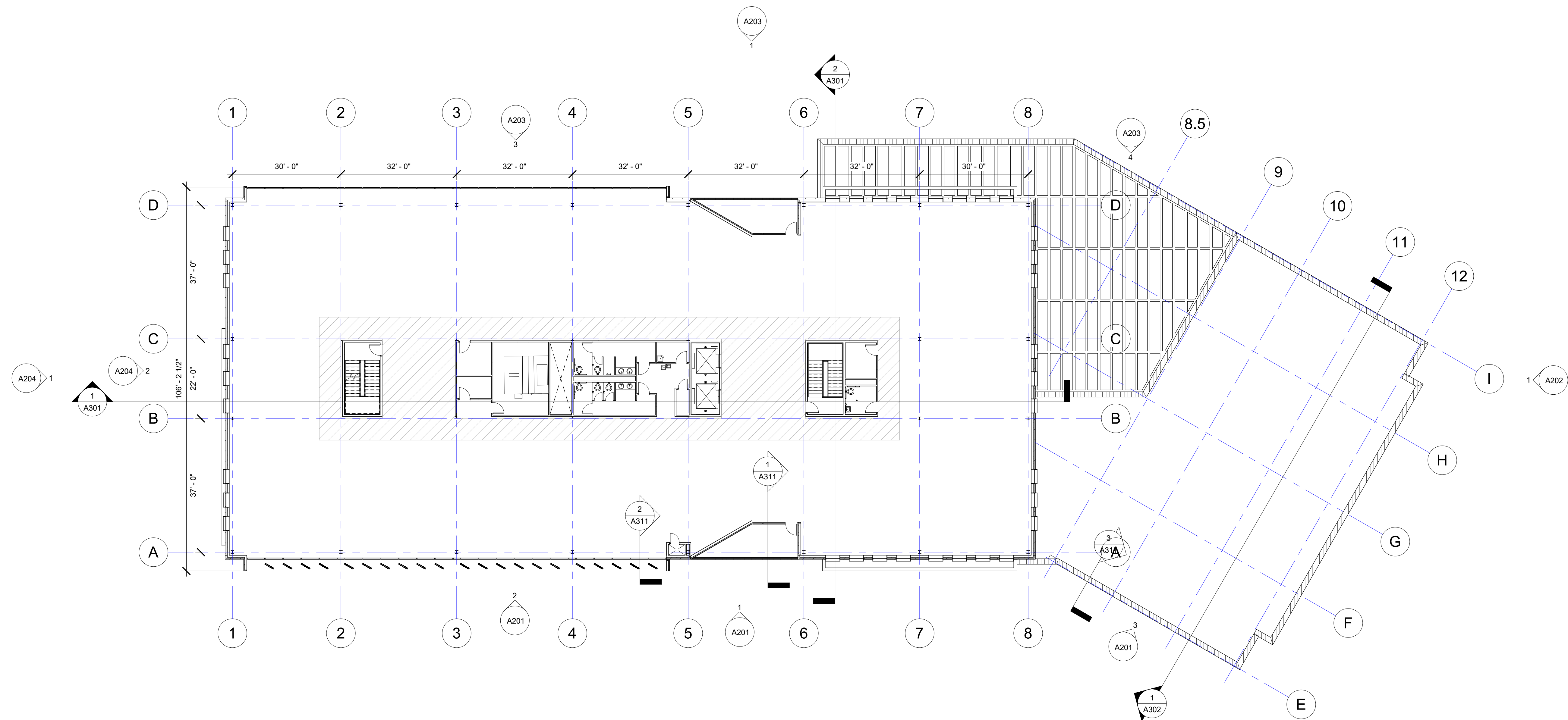
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A102b | REV



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No.	Description	Date



① LEVEL 3 OVERALL FLOOR PLAN
1/16" = 1'-0"

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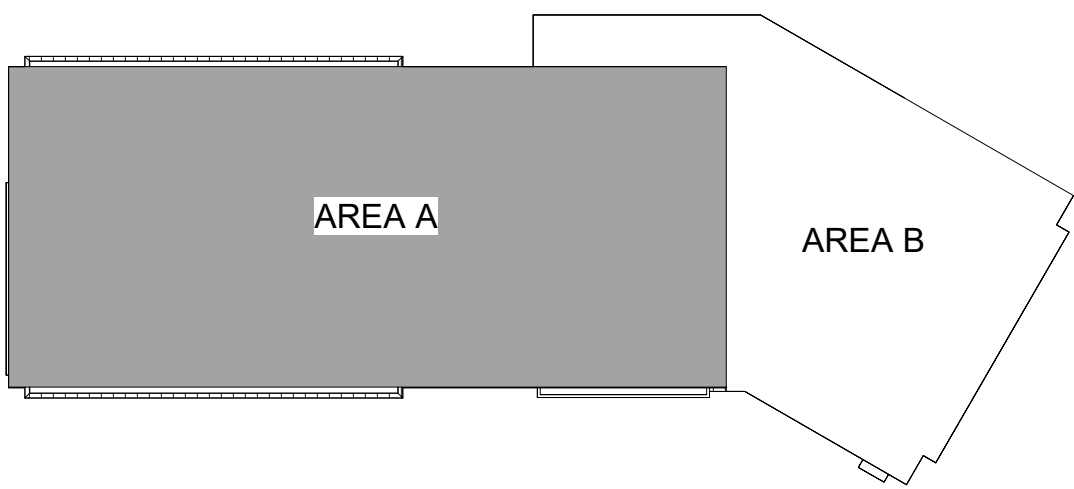
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OVERALL PLAN LEVEL 3

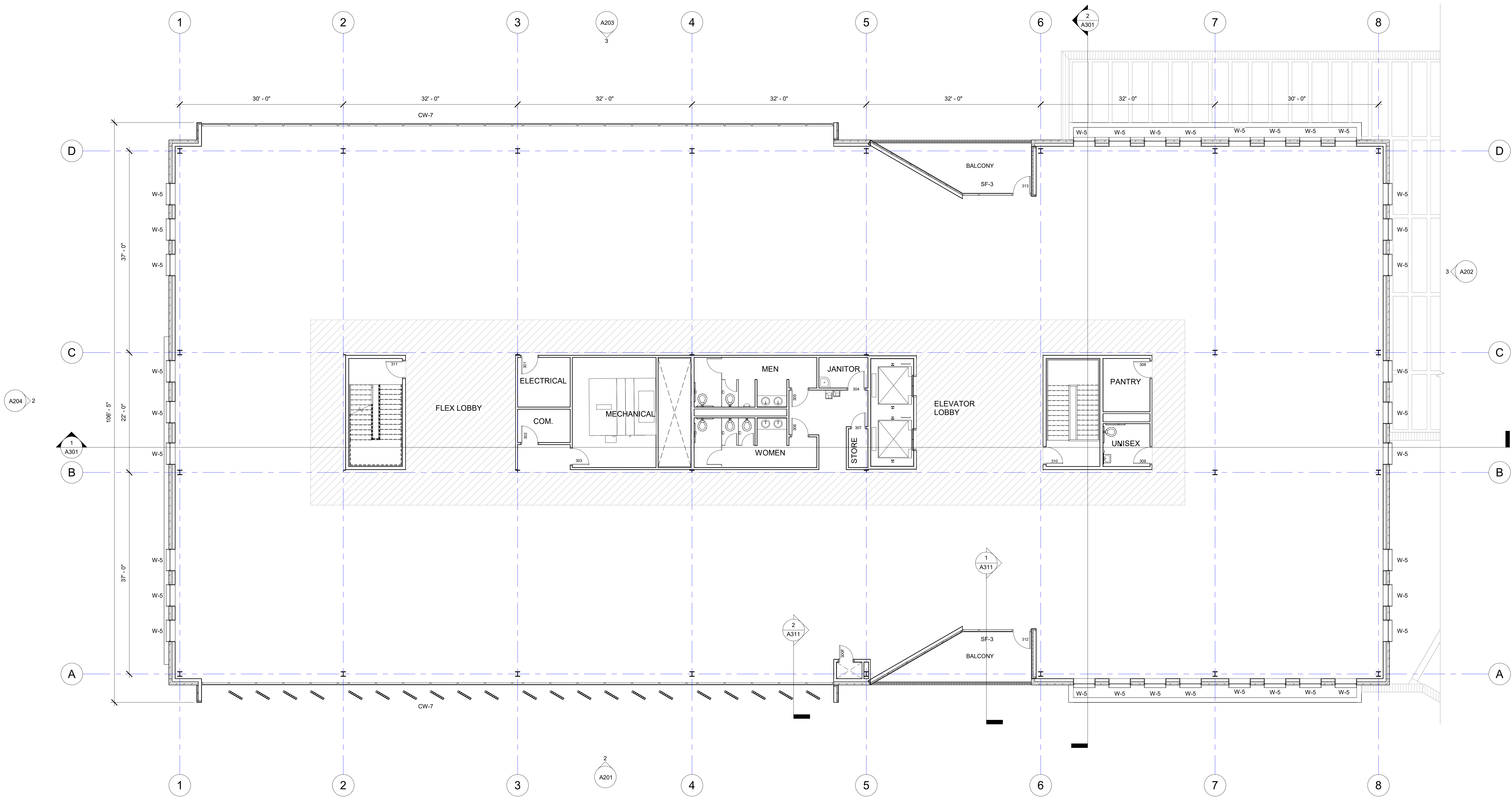


KEY PLAN



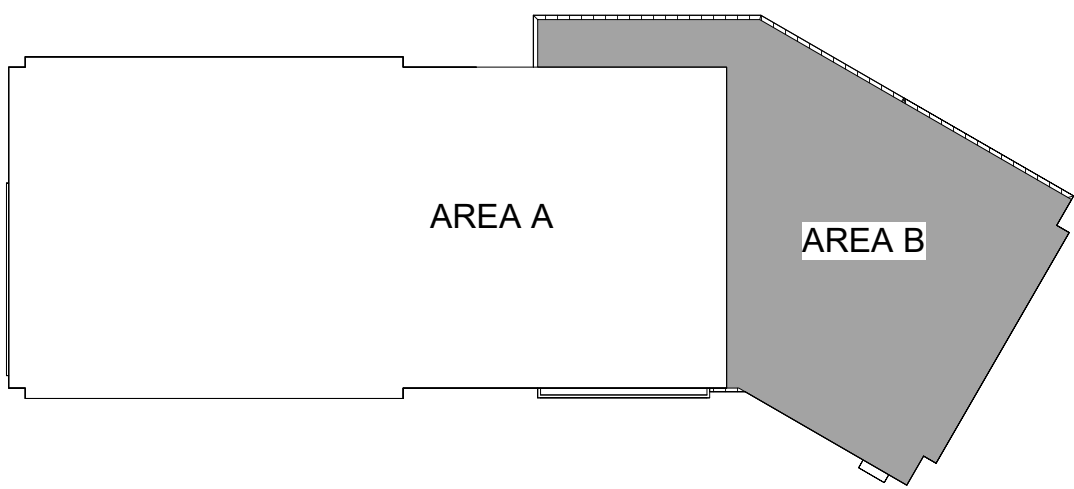
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**LEVEL 3 FLOOR
PLAN-AREA A**

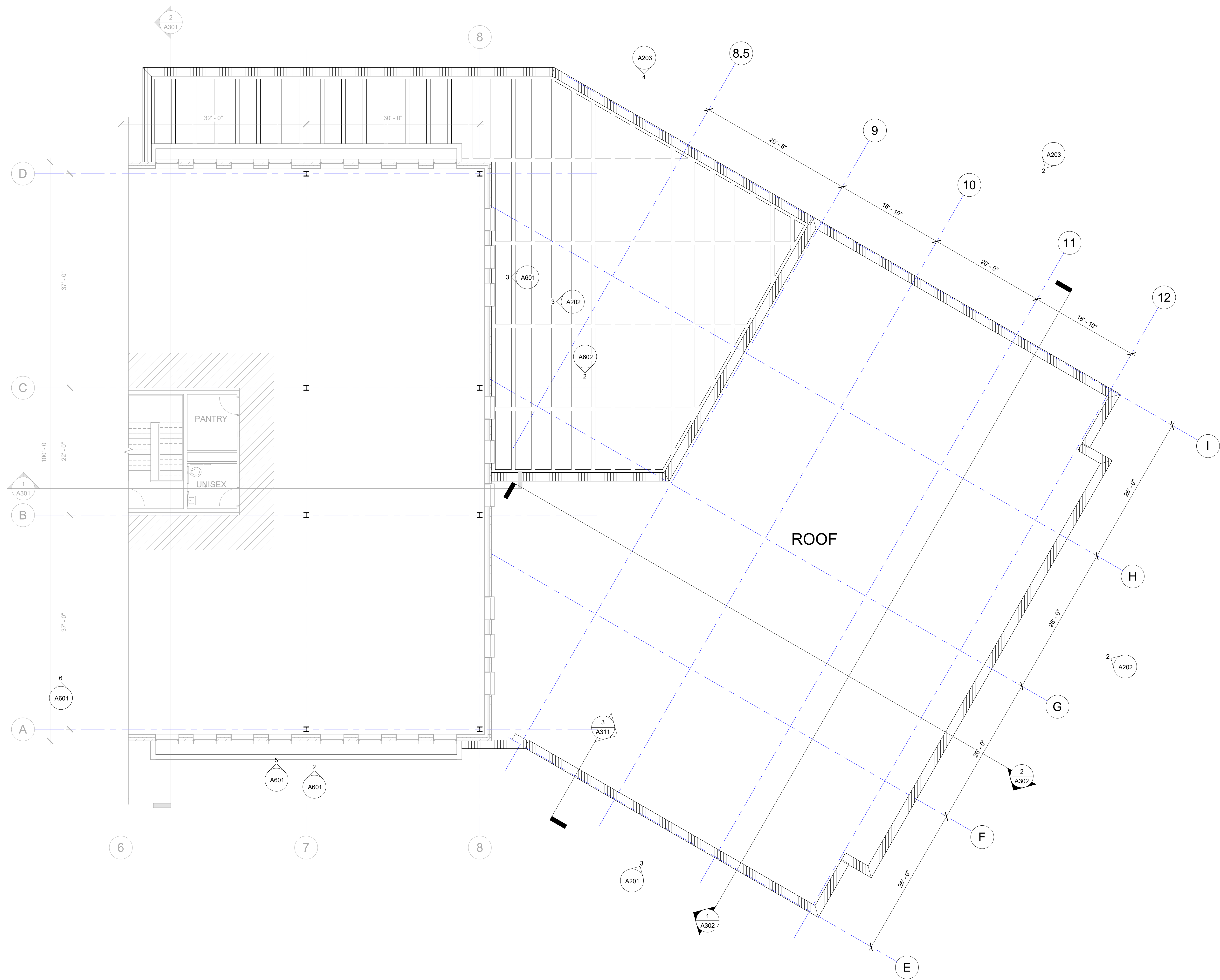


KEY PLAN



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2 LEVEL 3 FLOOR PLAN-AREA B
1/8" = 1'-0"

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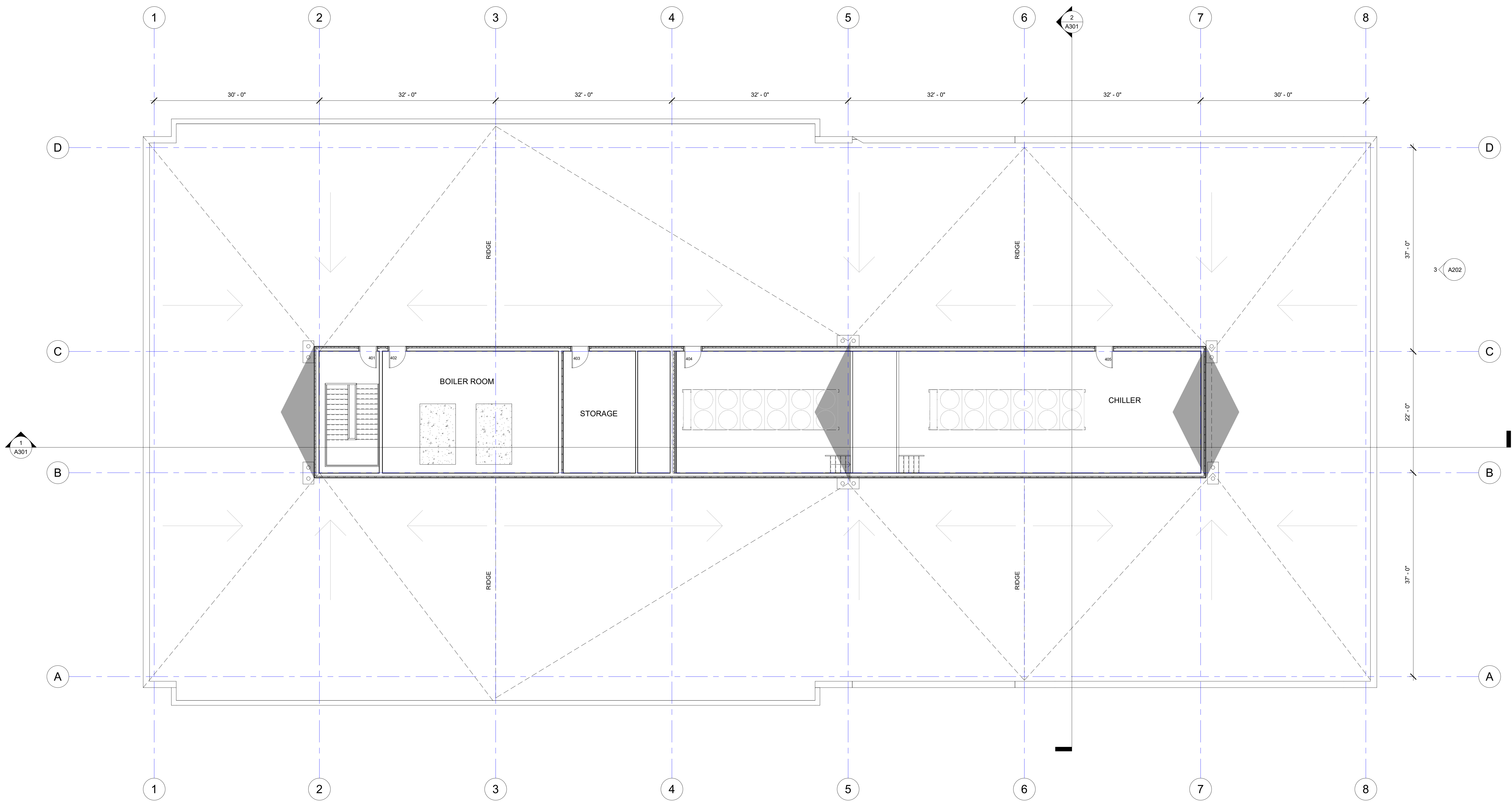
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LEVEL 3 FLOOR
PLAN-AREA B



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

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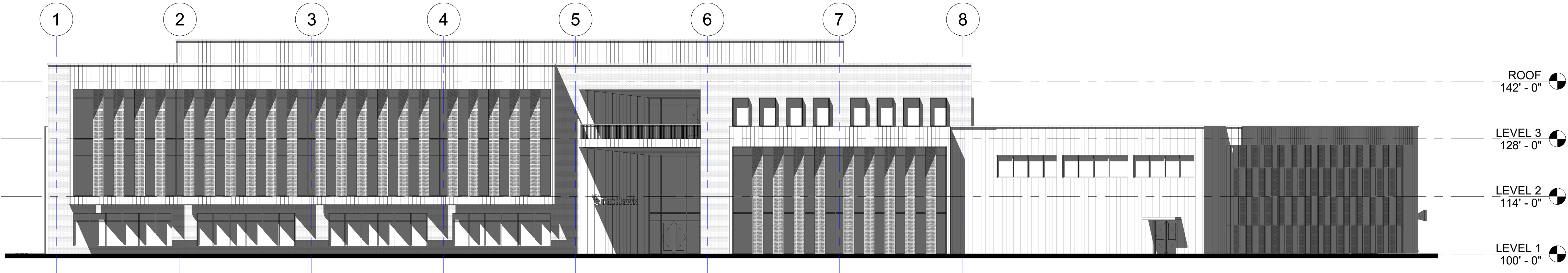
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ROOF PLAN

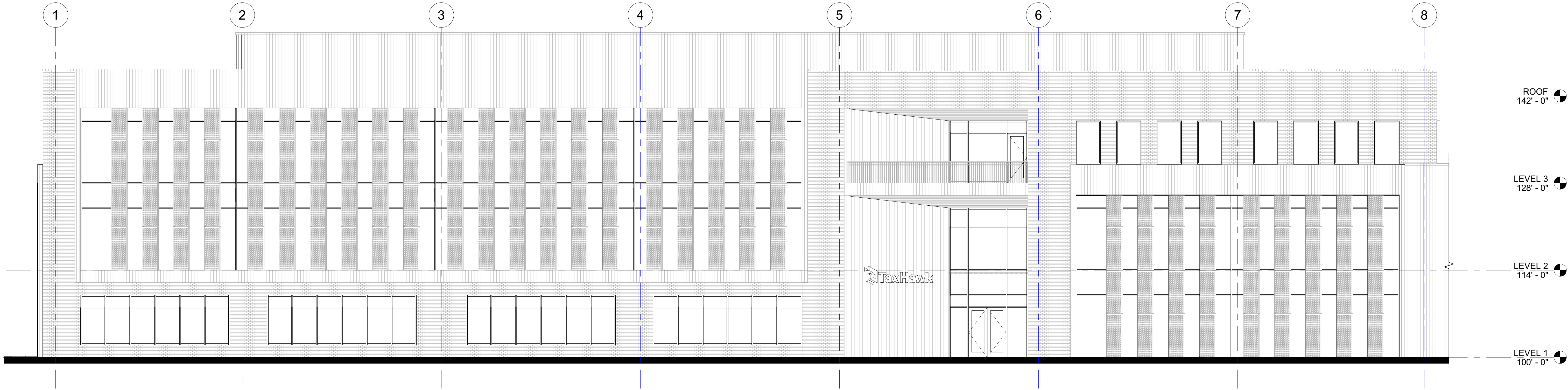


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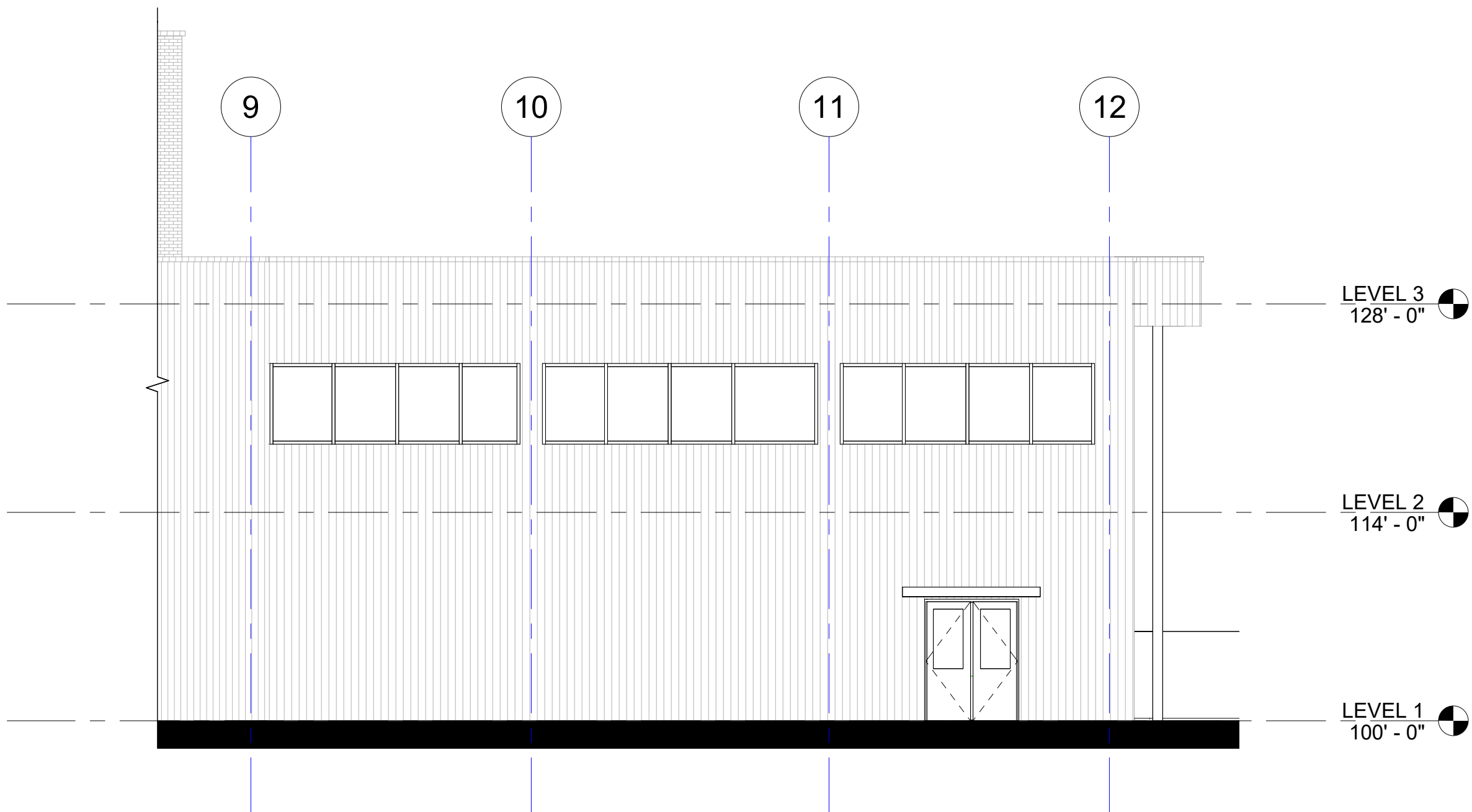
No.	Description	Date



① OVERALL WEST ELEVATION
1/16" = 1'-0"



② WEST ELEVATION
1/8" = 1'-0"



③ WEST - BB COURT
1/8" = 1'-0"

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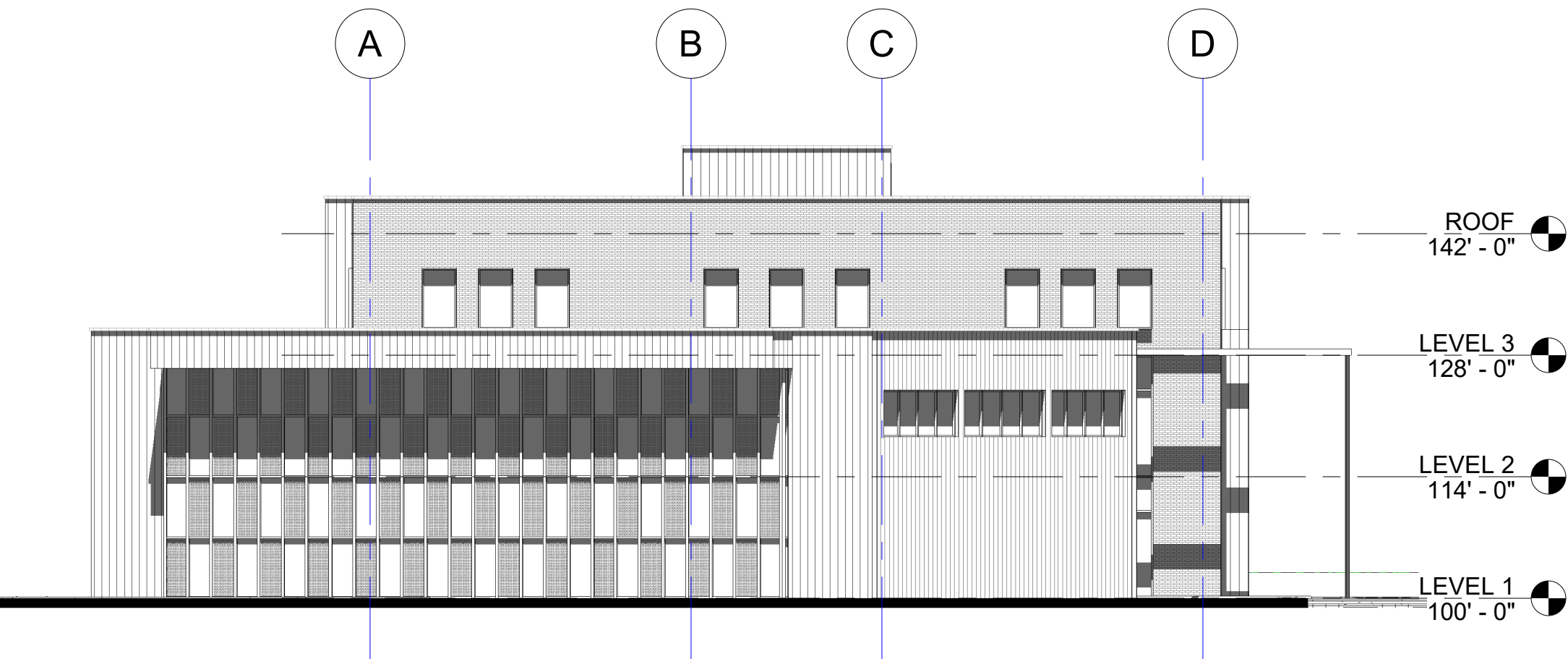
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ELEVATIONS

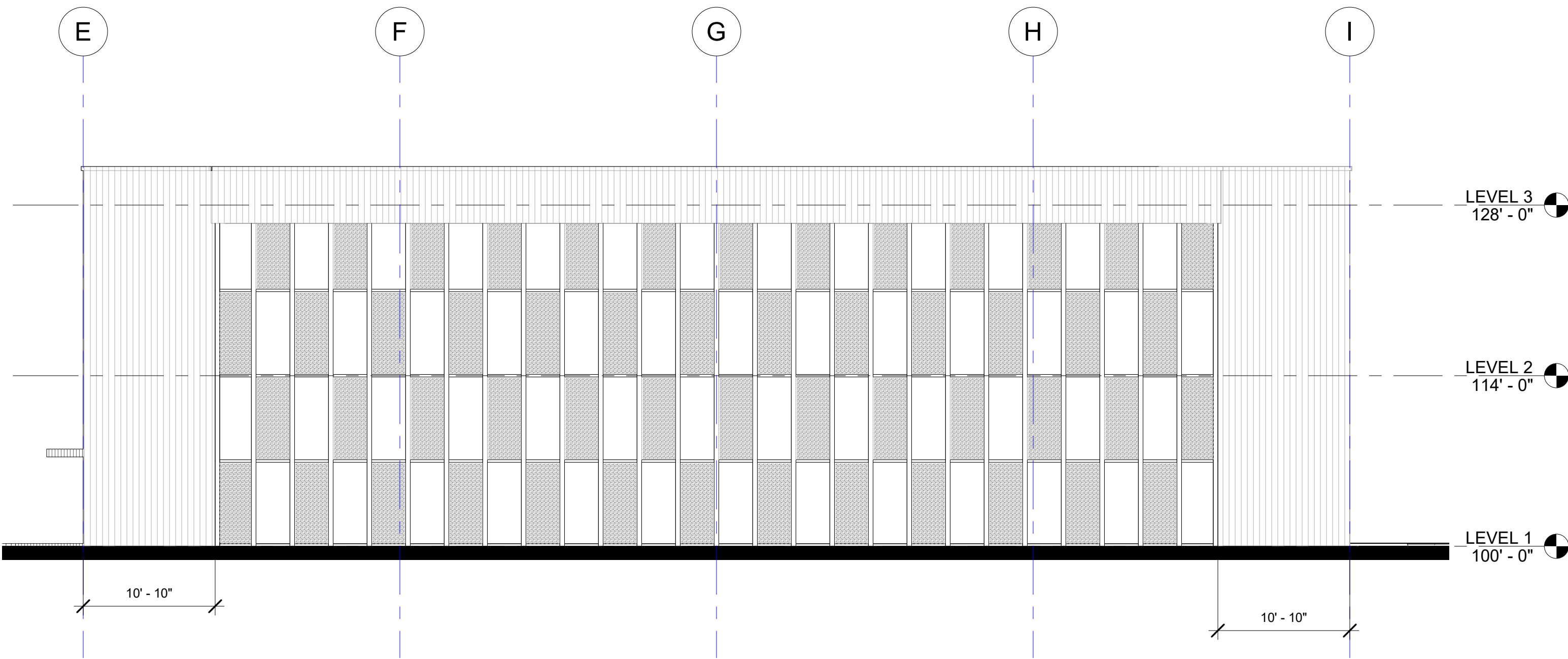


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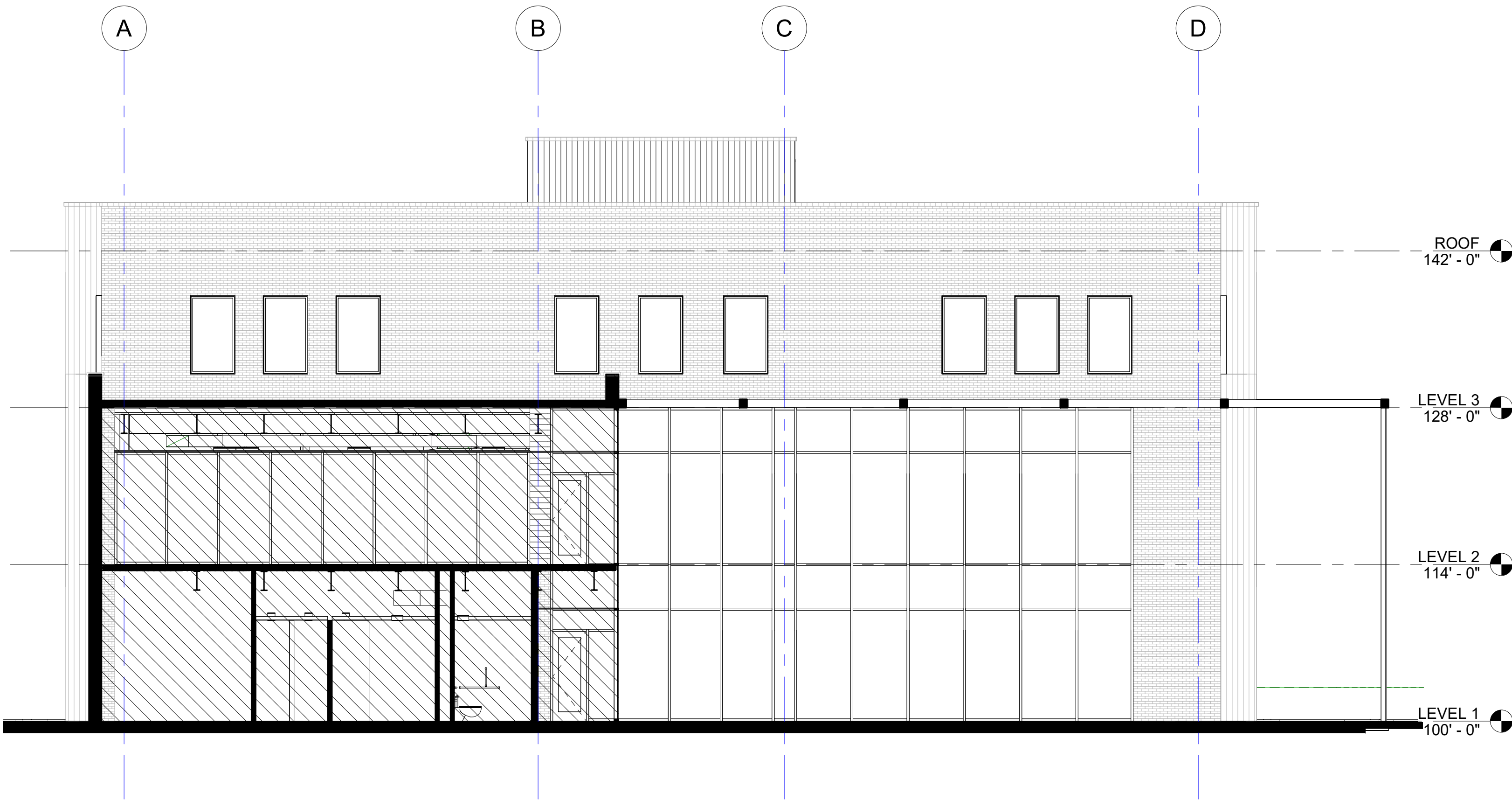
No.	Description	Date



① SOUTH ELEVATION
1/16" = 1'-0"



② SOUTH - BB COURT
1/8" = 1'-0"



③ SOUTH INNER ELEVATION
1/8" = 1'-0"

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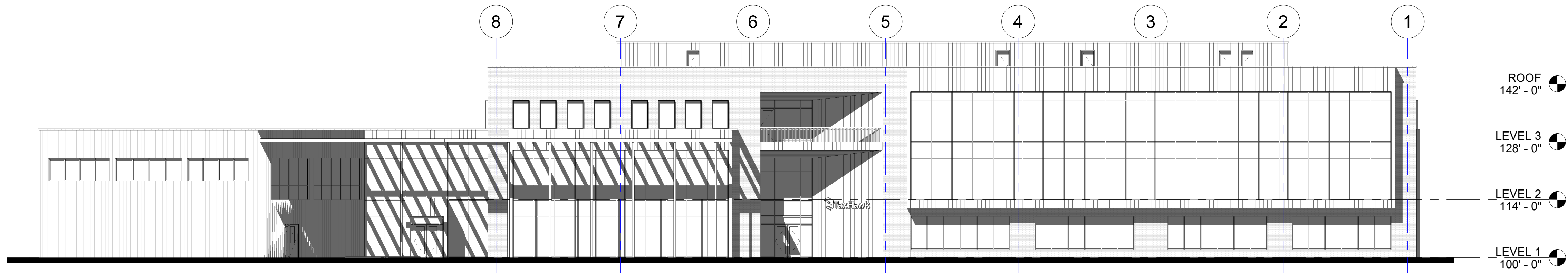
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ELEVATIONS

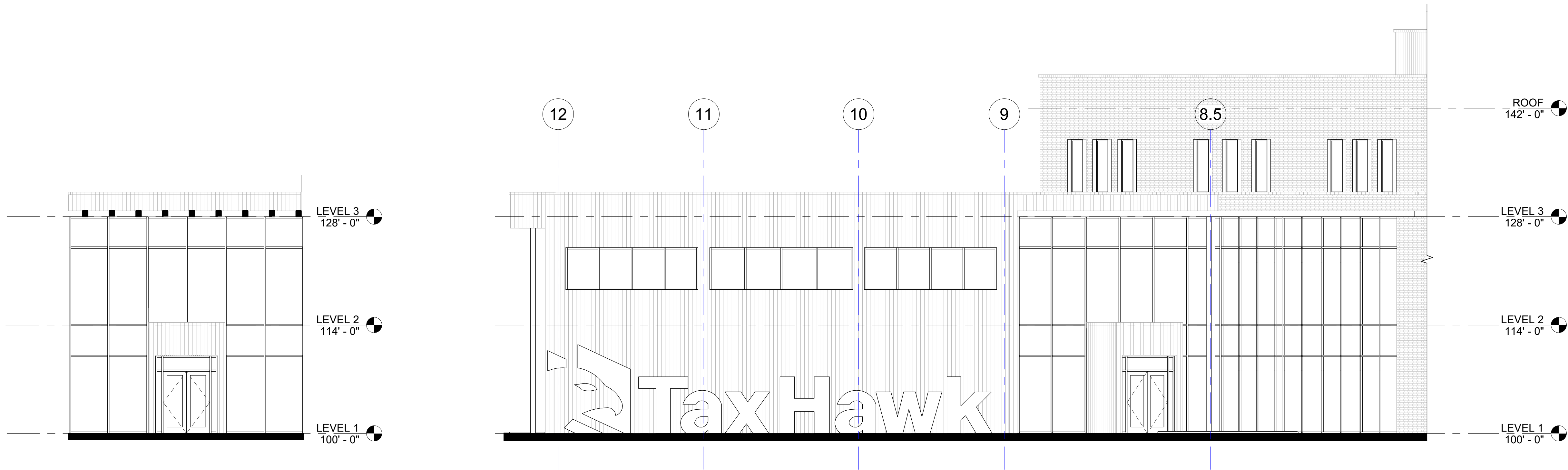


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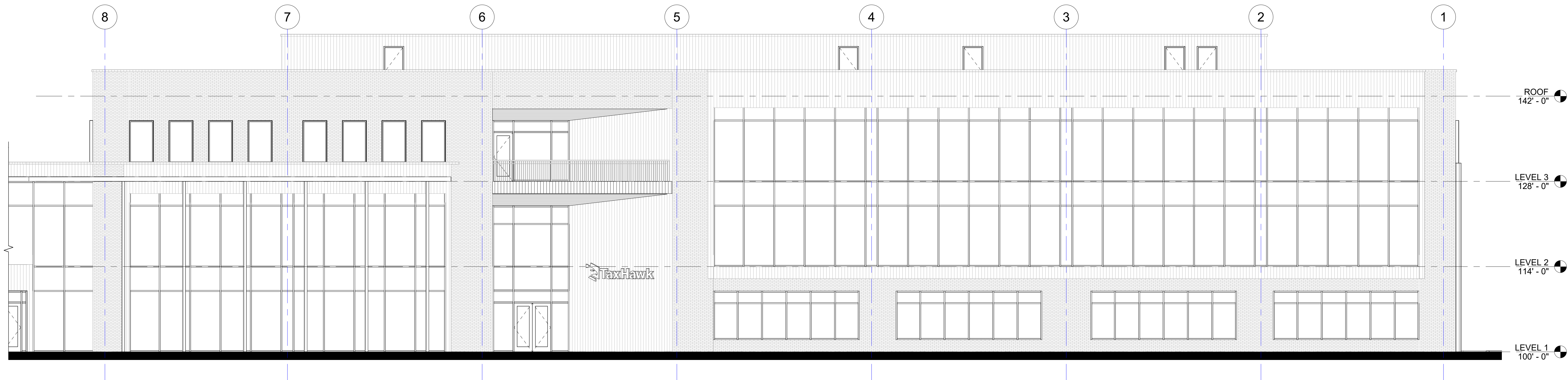


① EAST ELEVATION
1/16" = 1'-0"



④ EAST - PLAZA
1/8" = 1'-0"

② EAST - BB COURT
1/8" = 1'-0"



③ EAST - OFFICE BUILDING
1/8" = 1'-0"

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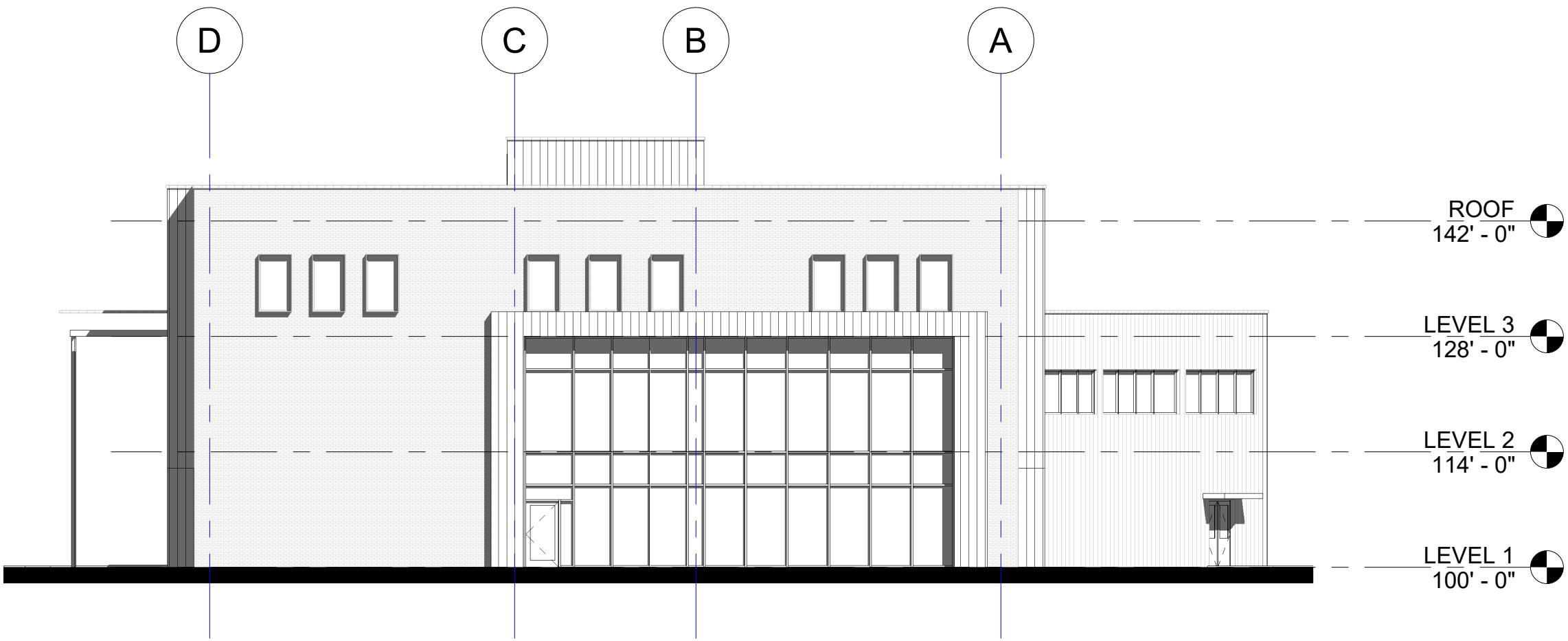
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ELEVATIONS

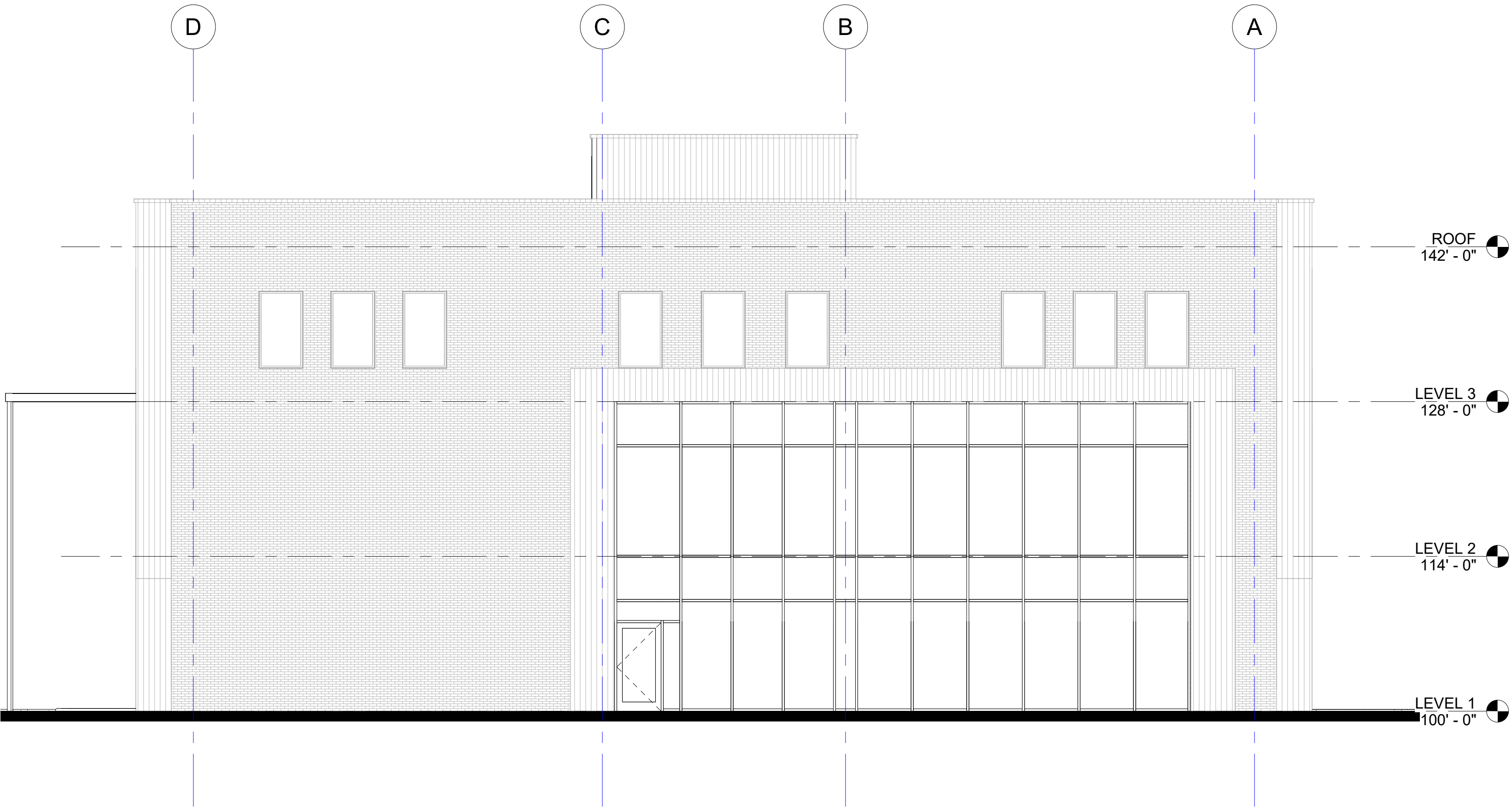


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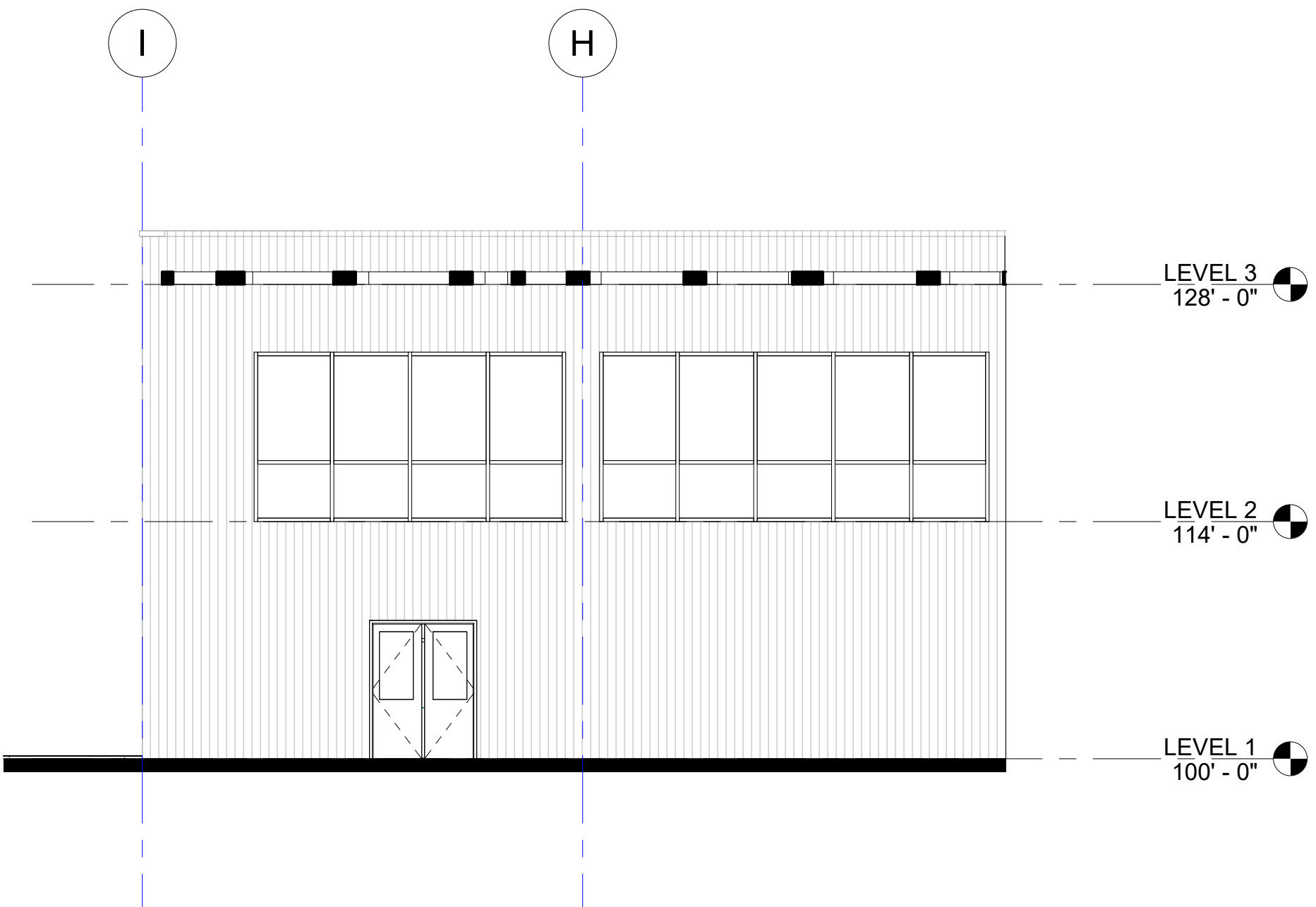
No.	Description	Date



① NORTH ELEVATION W/ SHADOW
1/16" = 1'-0"



② NORTH ELEVATION
1/8" = 1'-0"



③ NORTH - BB COURT
1/8" = 1'-0"

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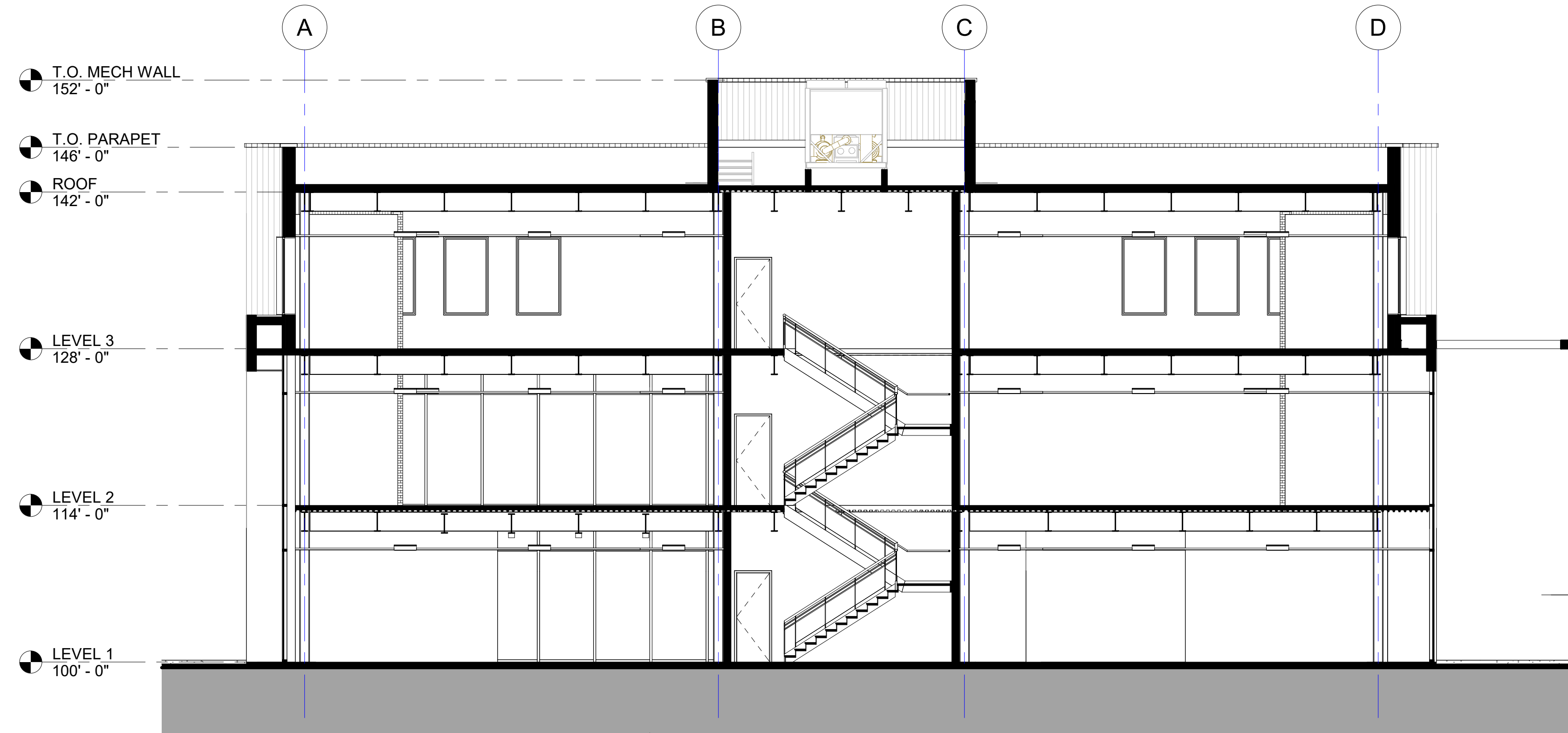
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ELEVATIONS



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No.	Description	Date



② SECTION 2
1/8" = 1'-0"



① SECTION 1
1/8" = 1'-0"

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BUILDING SECTIONS

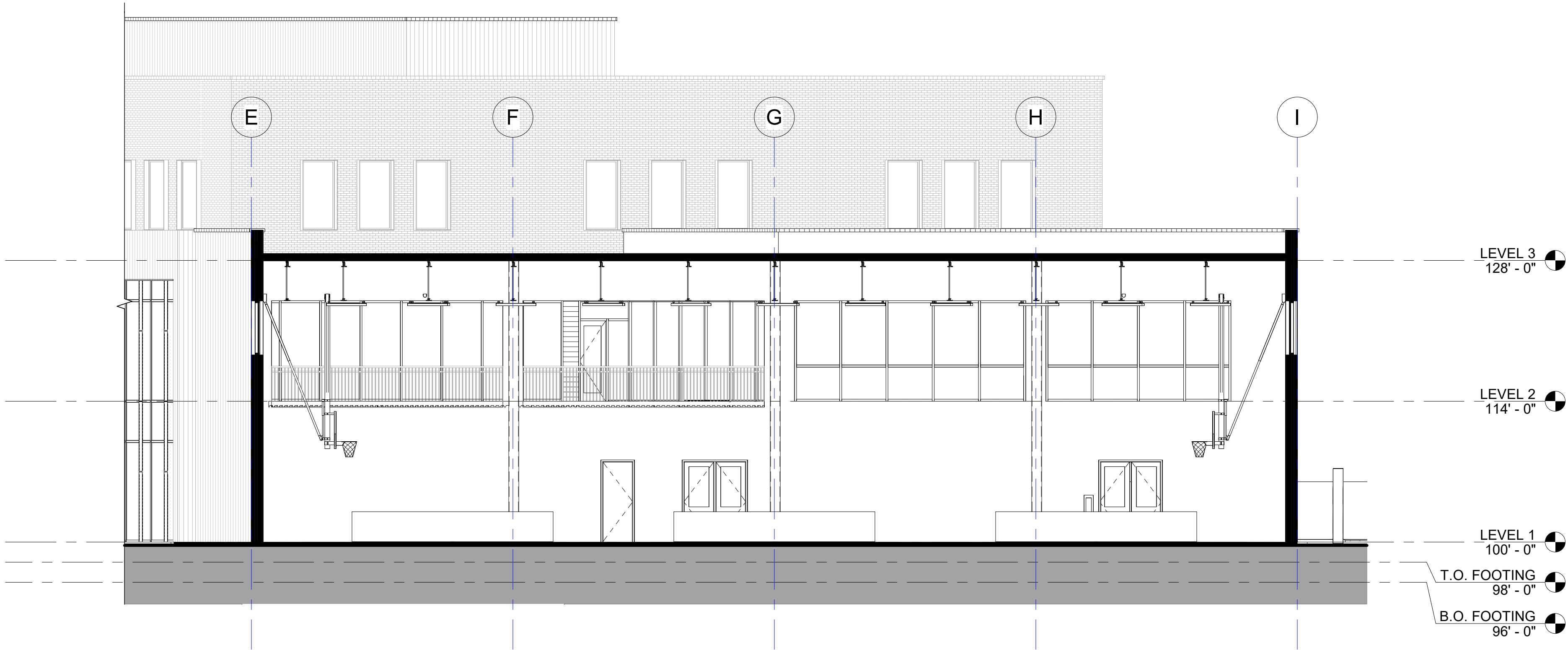


ARCH 6016-001 FALL 2022 ELECTIVE
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SECTION 4
1/8" = 1'-0"



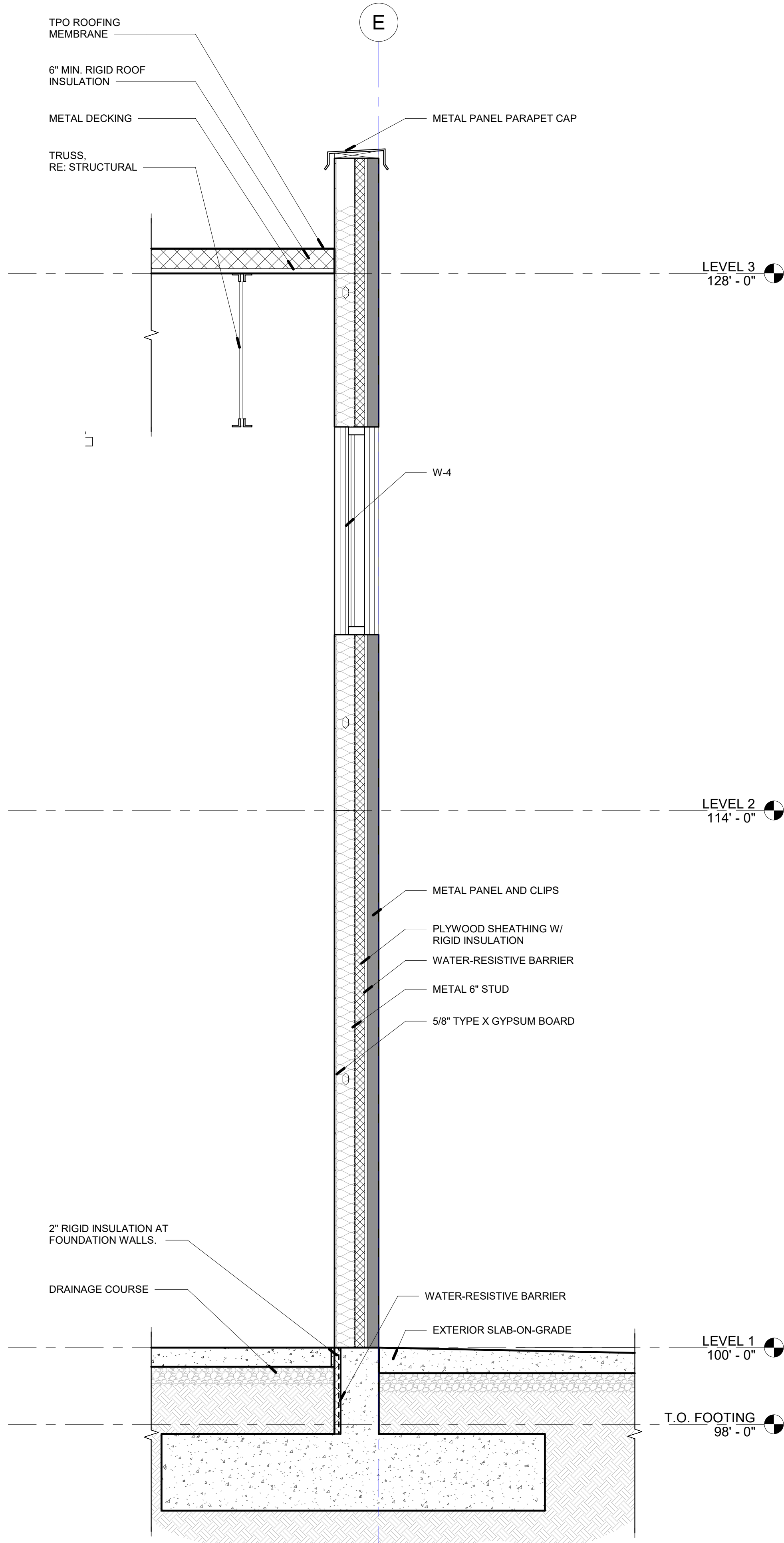
SECTION 3
1/8" = 1'-0"

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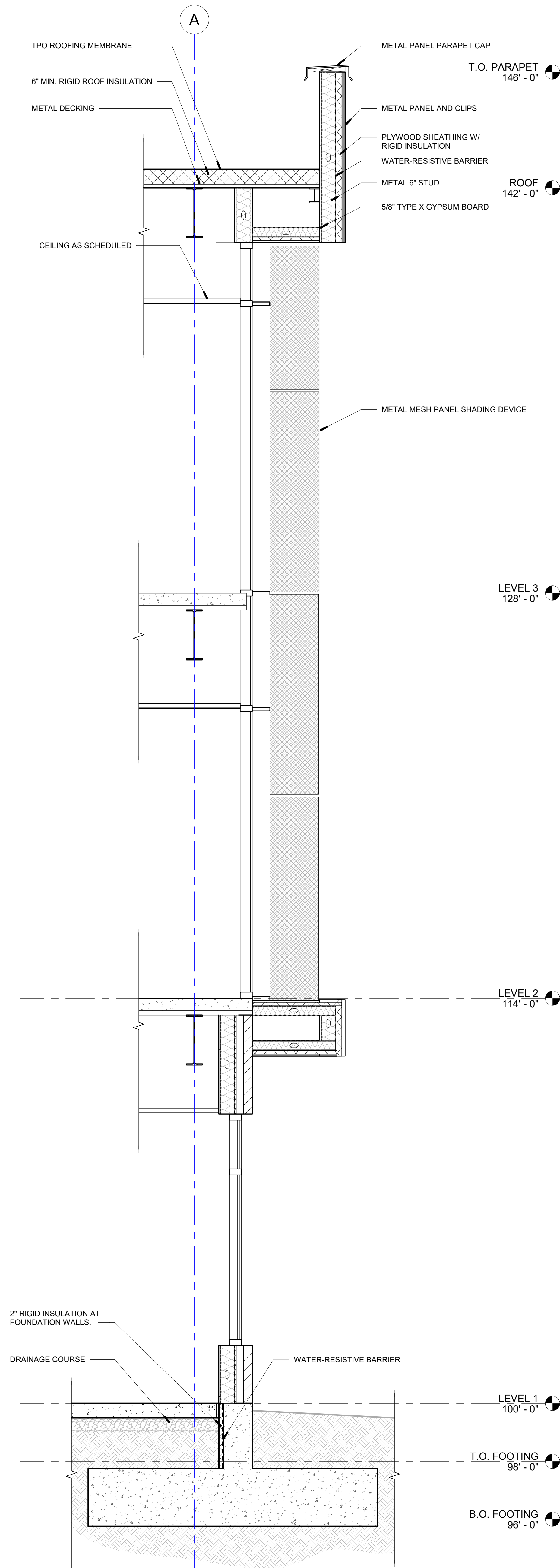
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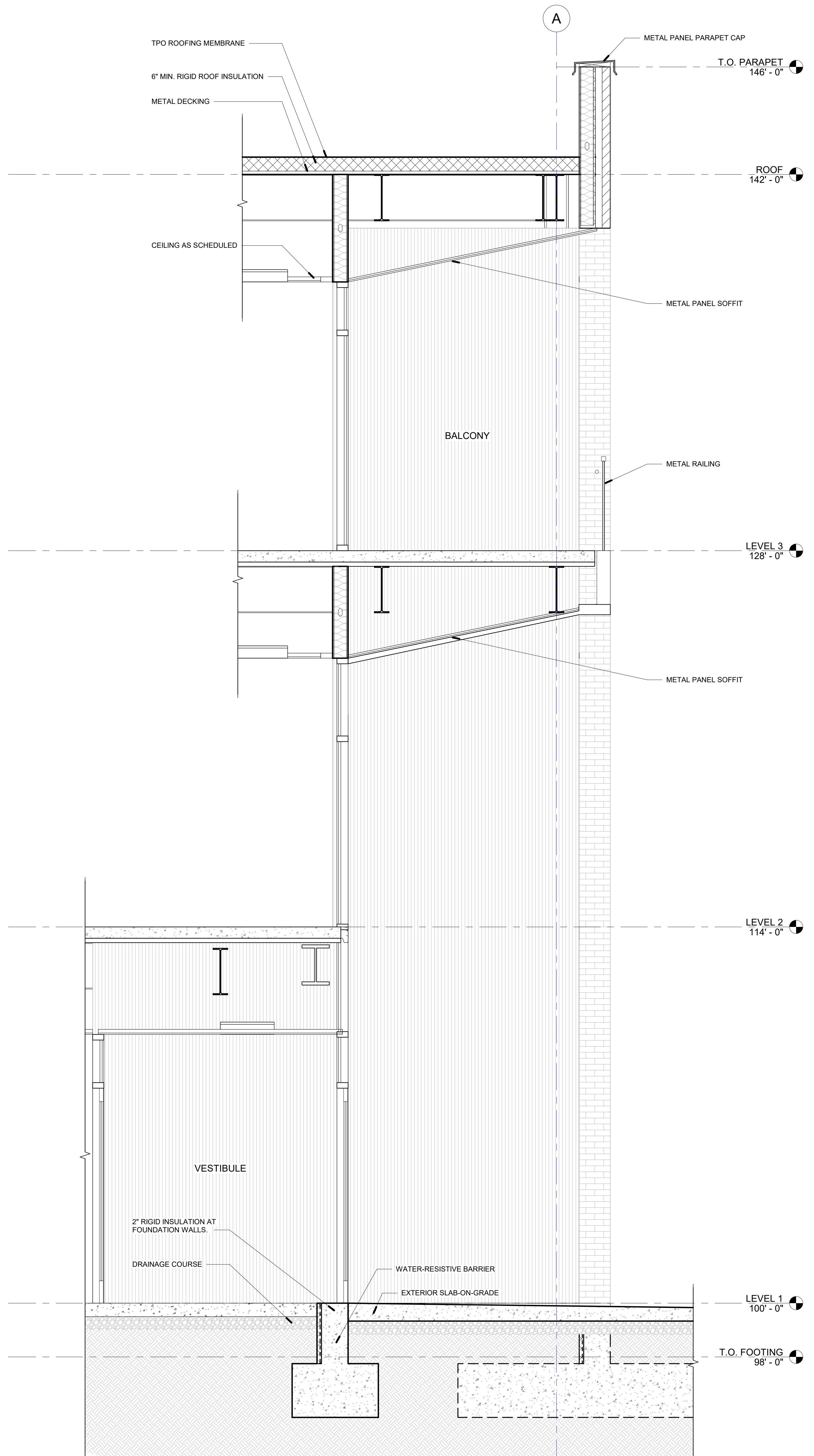
BUILDING SECTIONS



③ WALL SECTION 3
1/2" = 1'-0"



② WALL SECTION 2
1/2" = 1'-0"



① WALL SECTION 1
1/2" = 1'-0"



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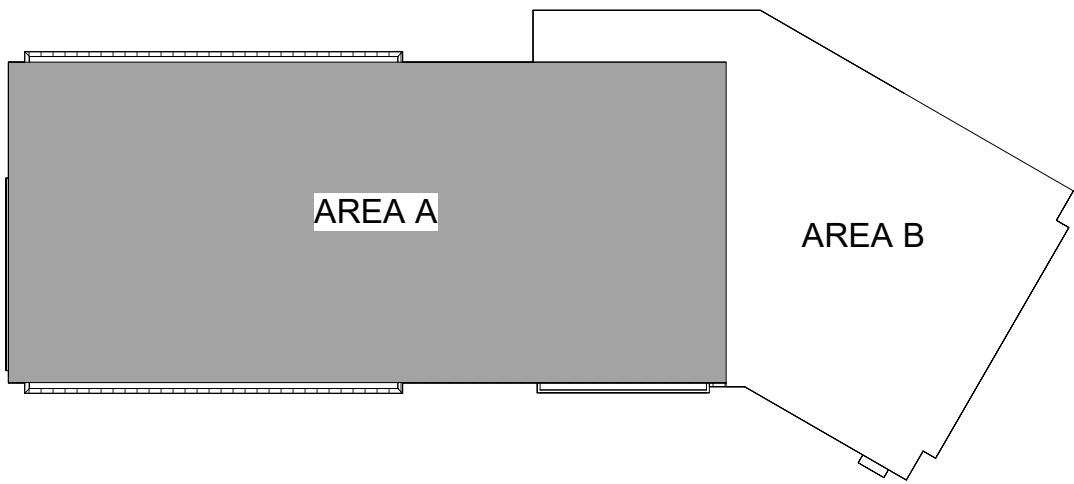
Drawn By: Aastha Shrestha

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WALL SECTIONS

CEILING TYPE LEGEND

- 2' X 2' ACOUSTIC CEILING TILE
- PICKLE BALL COURT (A-3)
- STORAGE (S)

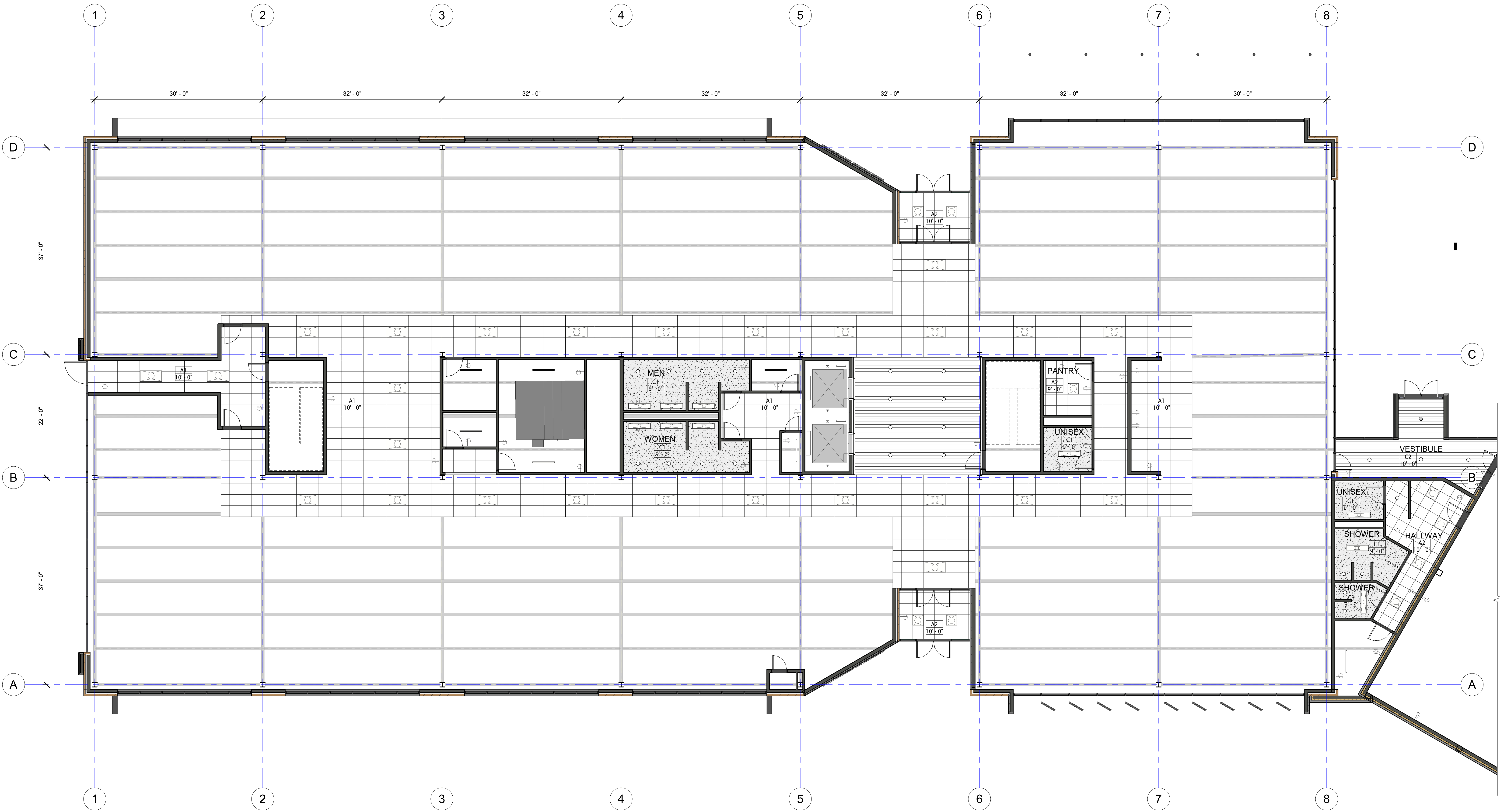


KEY PLAN



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1 LEVEL 1 CEILING PLAN
1/8" = 1'-0"

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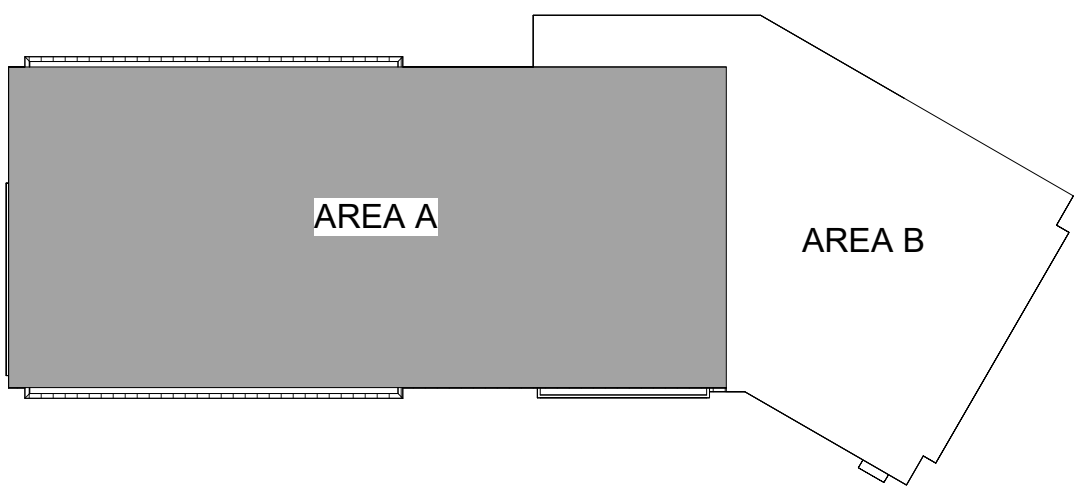
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Client Name:
TaxHawk®
1366 E 1120th S
Provo, UT 84606

Project Number: 2022.08.22
Issued Date: 07 December, 2022
Drawn By: Aastha Shrestha
Checked By: Ar. Robert Pinon

RCP LEVEL 1

CEILING LEGEND
A1 - 2' X 4' ACT CEILING SYSTEM
A2 - 2' X 2' ACT CEILING SYSTEM
C1 - 5/8" GYPSUM BOARD ON METAL STUDS
C2 - 6" WOODEN BATTENS ON METAL HANGERS

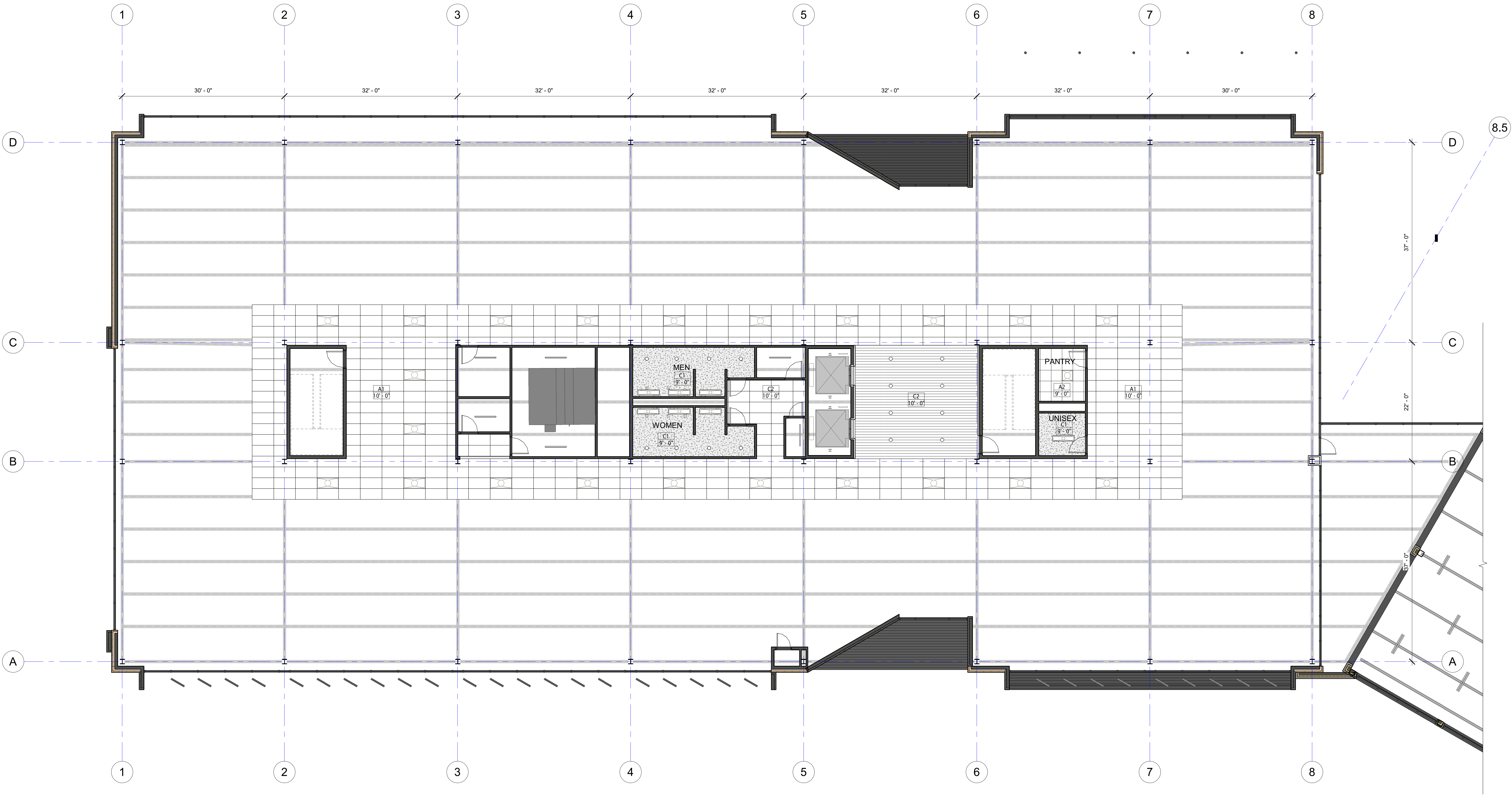


KEY PLAN



ARCH 6016-001 FALL 2022 ELECTIVE GRADUATE STUDIO

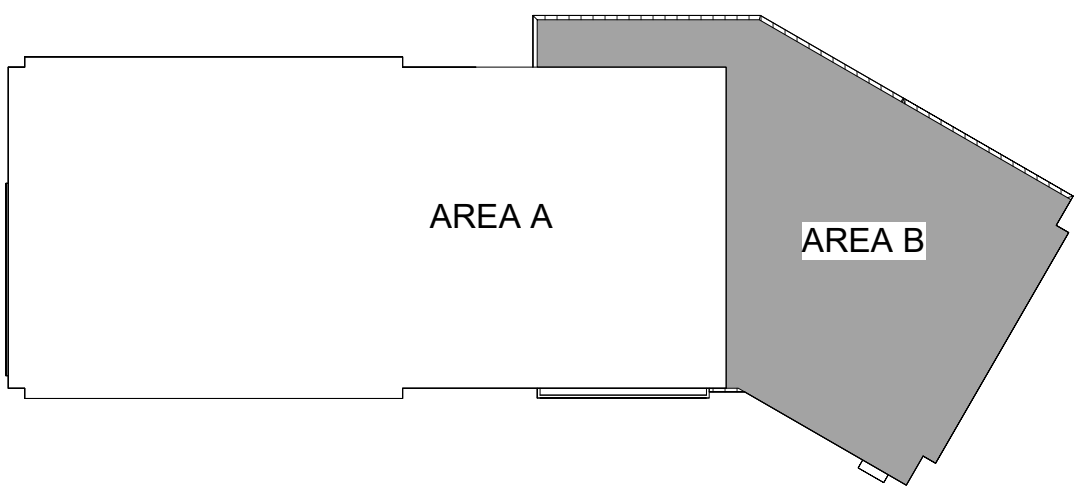
No.	Description	Date



1 LEVEL 2 CEILING PLAN-AREA A
1/8" = 1'-0"

Project Name:
TAX HAWK OFFICE AND BASKETBALL FACILITY
Location:
1255 S State Street
Provo, UT 84606
Client Name:

1366 E 1120th S
Provo, UT 84606
Project Number: 2022.08.22
Issued Date: 07 December, 2022
Drawn By: Aastha Shrestha
Checked By: Ar. Robert Pinon
RCP LEVEL 2-AREA A

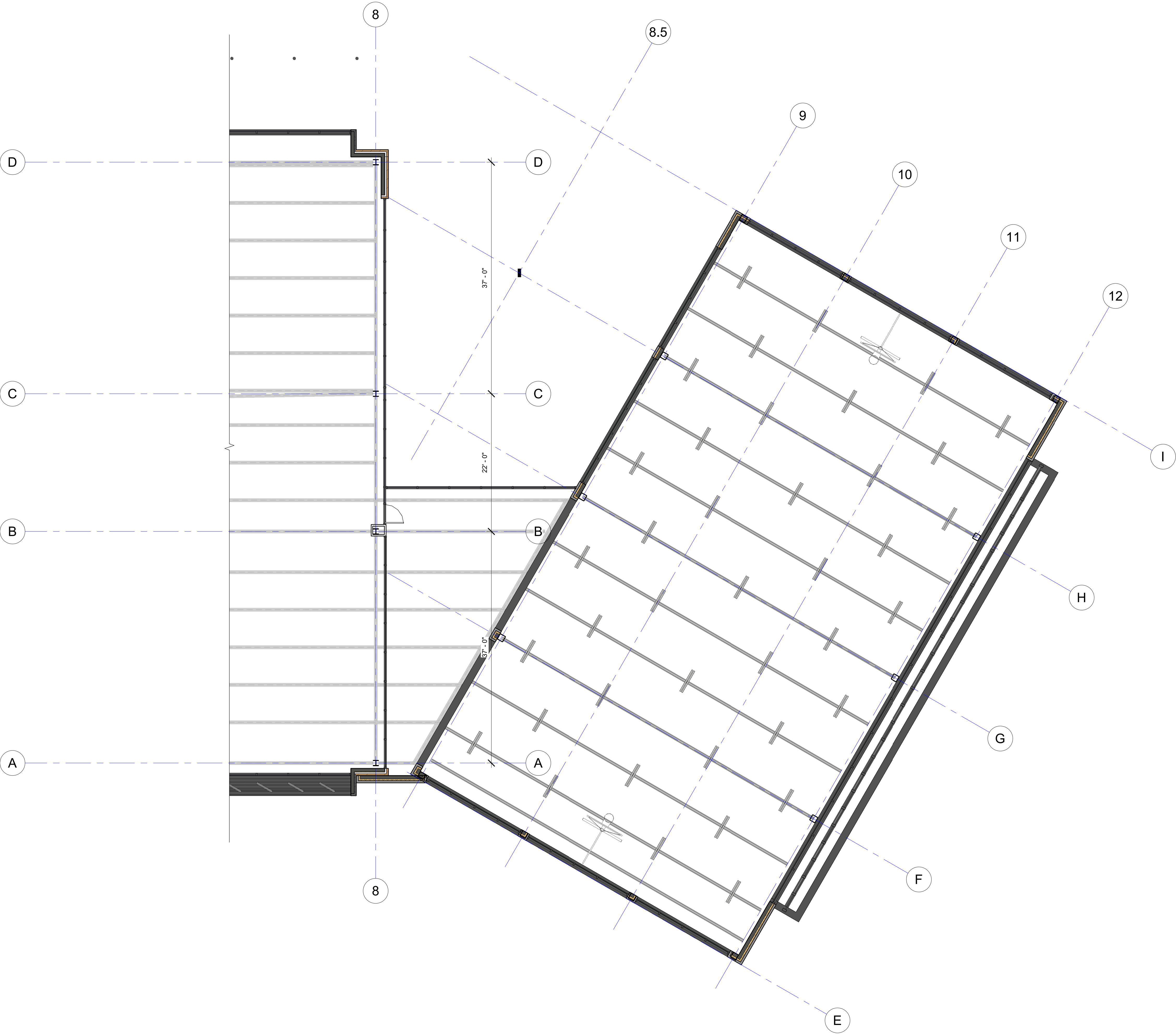


KEY PLAN



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



① LEVEL 2 CEILING PLAN-AREA B
1/8" = 1'-0"

Project Name:
TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

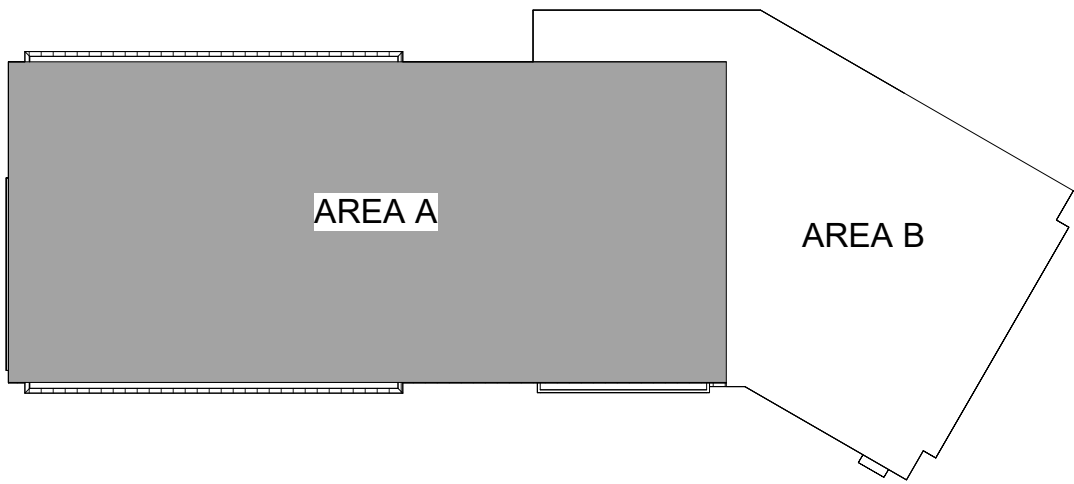
Client Name:

1366 E 1120th S
Provo, UT 84606

Project Number: 2022.08.22
Issued Date: 07 December, 2022
Drawn By: Aastha Shrestha
Checked By: Ar. Robert Pinon

RCP LEVEL 2-AREA B

CEILING LEGEND	
A1	- 2' X 4' ACT CEILING SYSTEM
A2	- 2' X 2' ACT CEILING SYSTEM
C1	- 5/8" GYPSUM BOARD ON METAL STUDS
C2	- 6" WOODEN BATTENS ON METAL HANGERS



KEY PLAN



ARCH 6016-001 FALL 2022 ELECTIVE GRADUATE STUDIO

No.	Description	Date



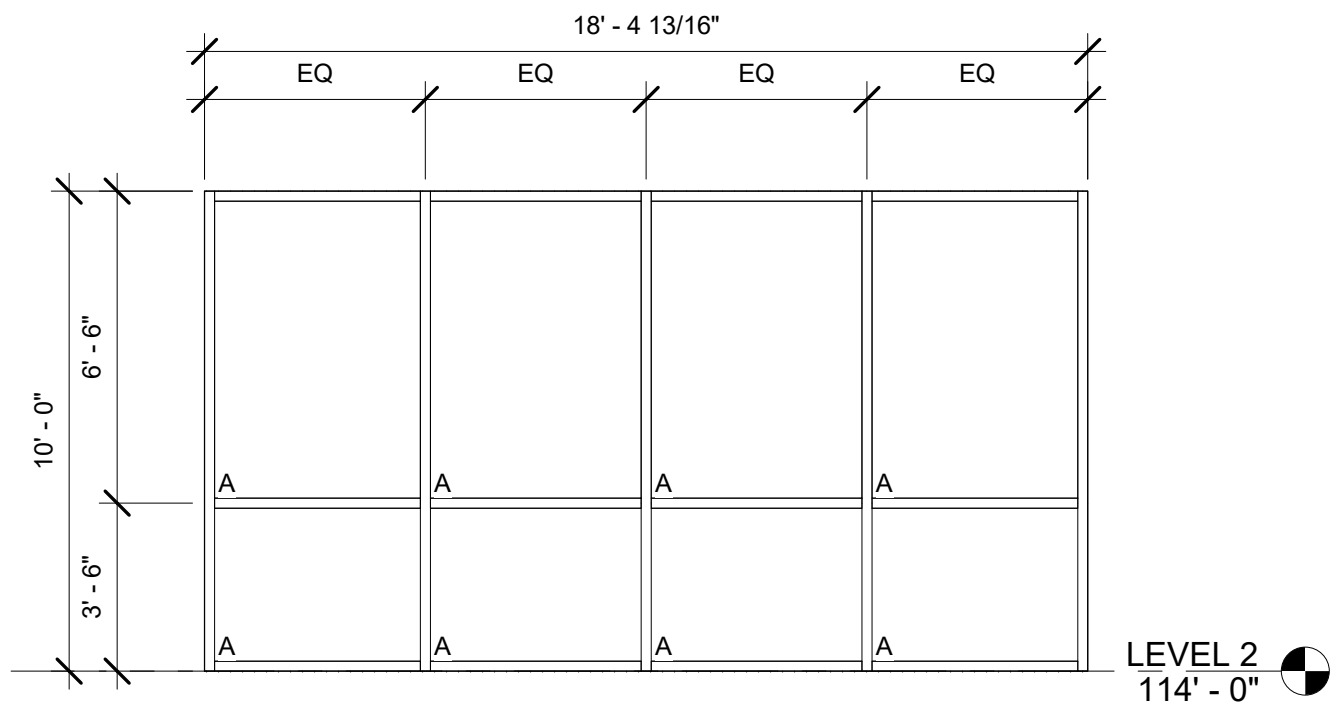
1 LEVEL 3 CEILING PLAN
1/8" = 1'-0"

Project Name:
TAX HAWK OFFICE AND BASKETBALL FACILITY
 Location:
 1255 S State Street
 Provo, UT 84606
 Client Name:

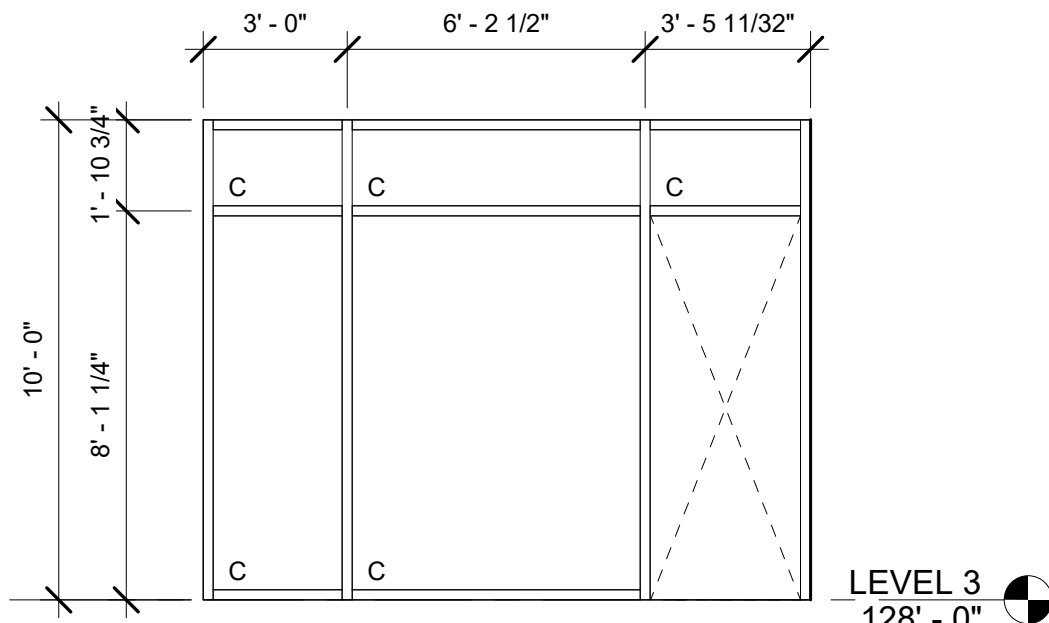
 1366 E 1120th S
 Provo, UT 84606
 Project Number: 2022.08.22
 Issued Date: 07 December, 2022
 Drawn By: Aastha Shrestha
 Checked By: Ar. Robert Pinon

RCP LEVEL 3

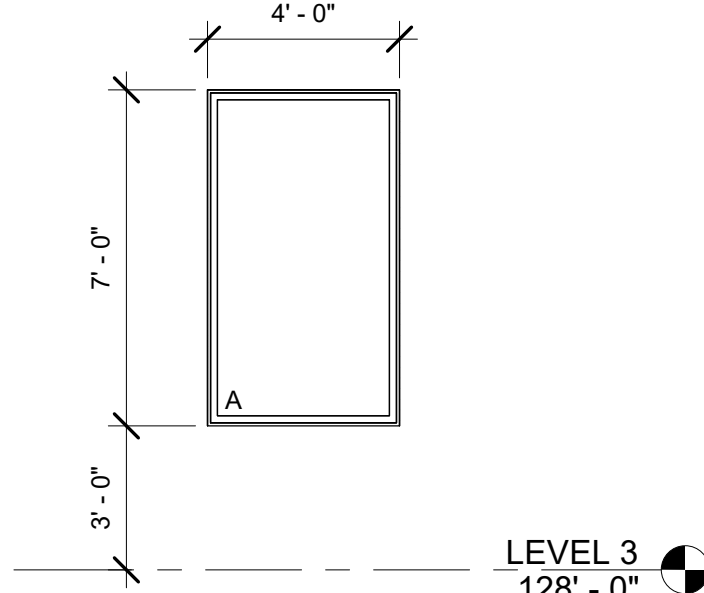
GLAZING LEGEND	
A	- LAMINATED DOUBLE GLAZED GLASS
B	- CLEAR TEMPERED GLASS
C	- SPANDREL GLASS



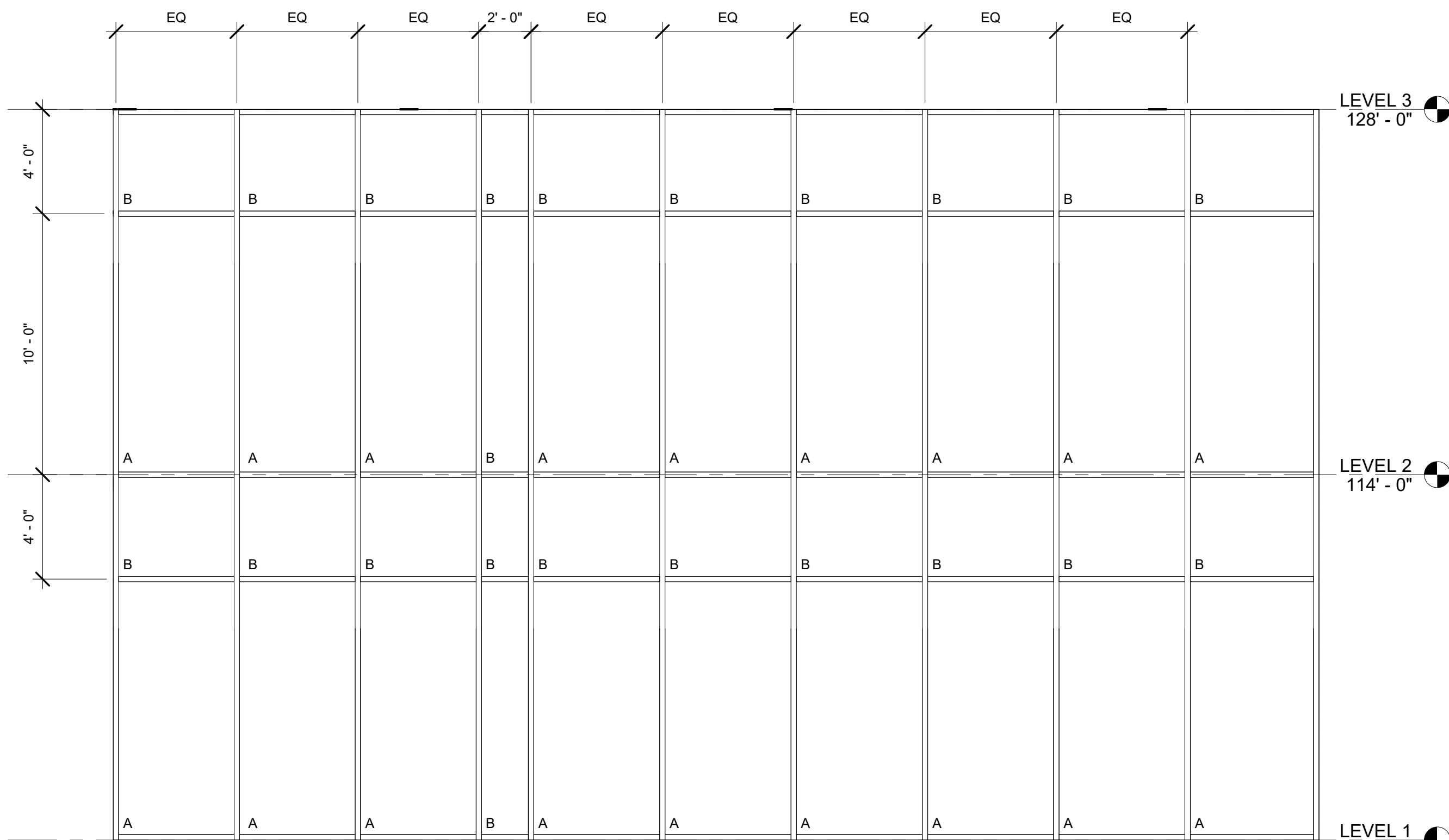
W - 2



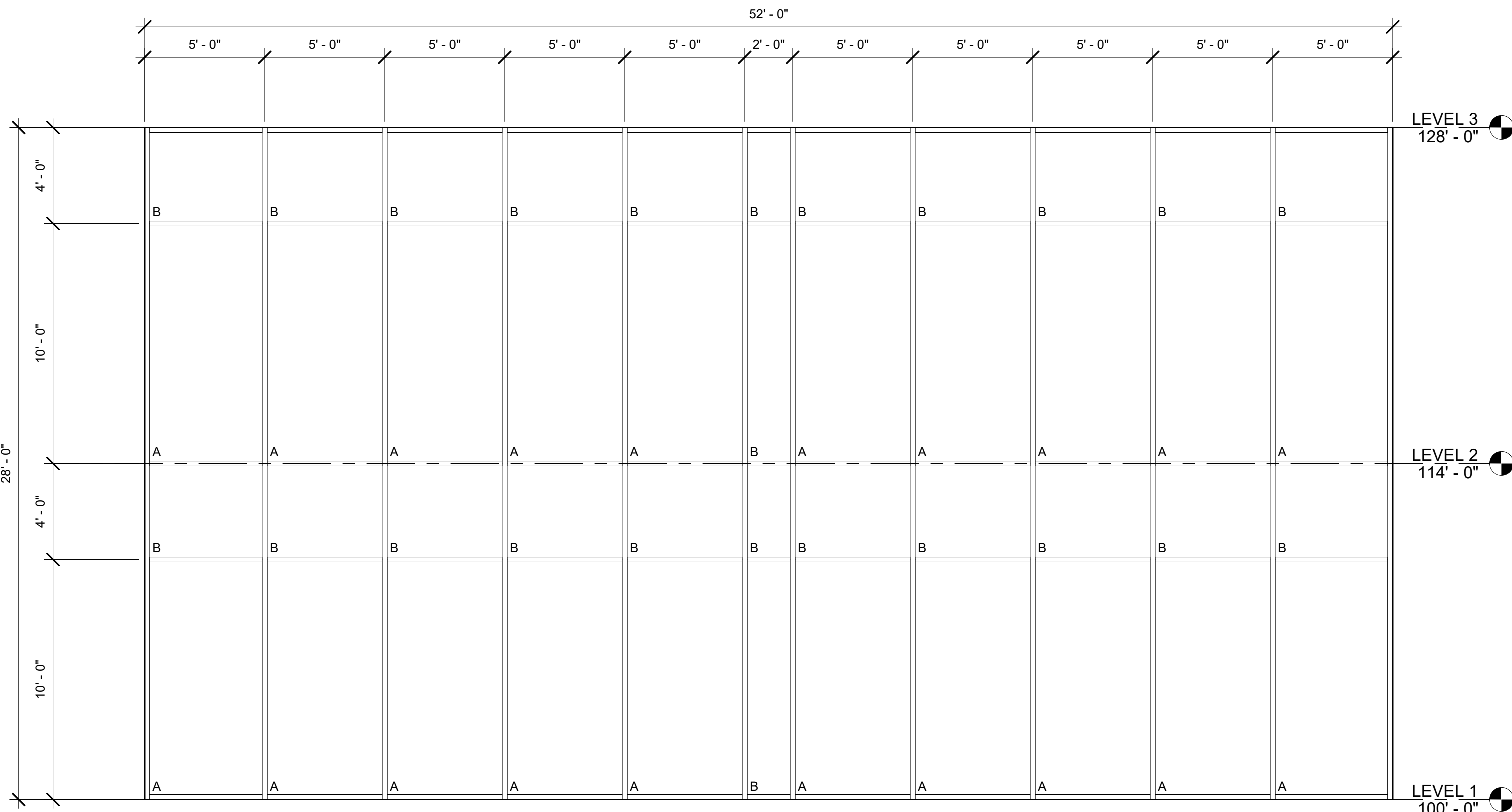
SF - 3



W - 5

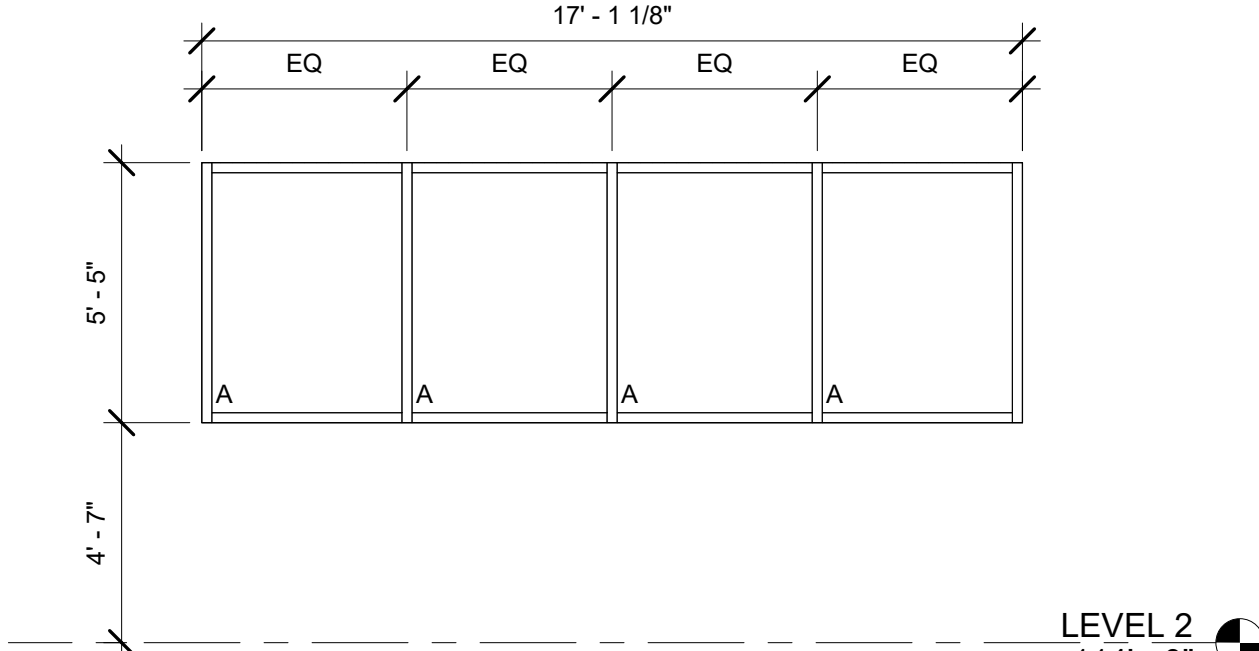


CW - 3

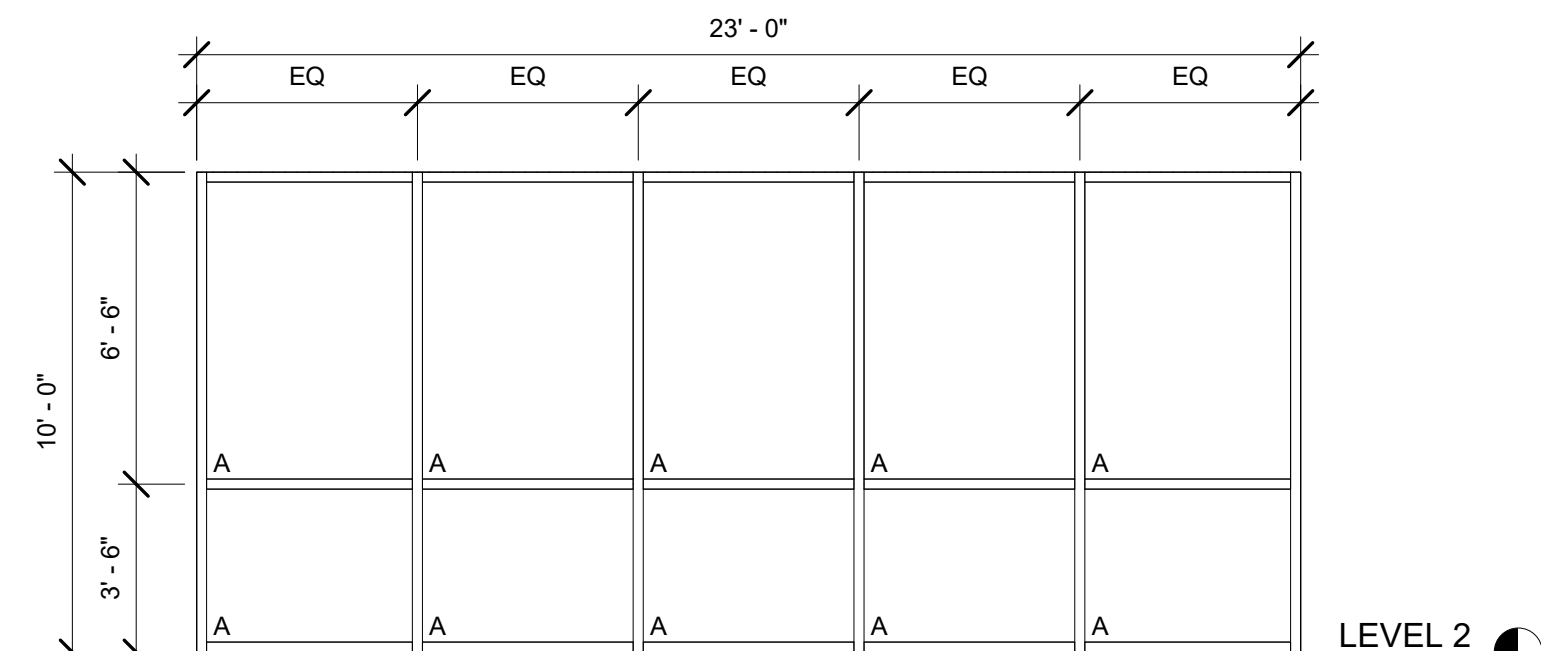


CW - 2

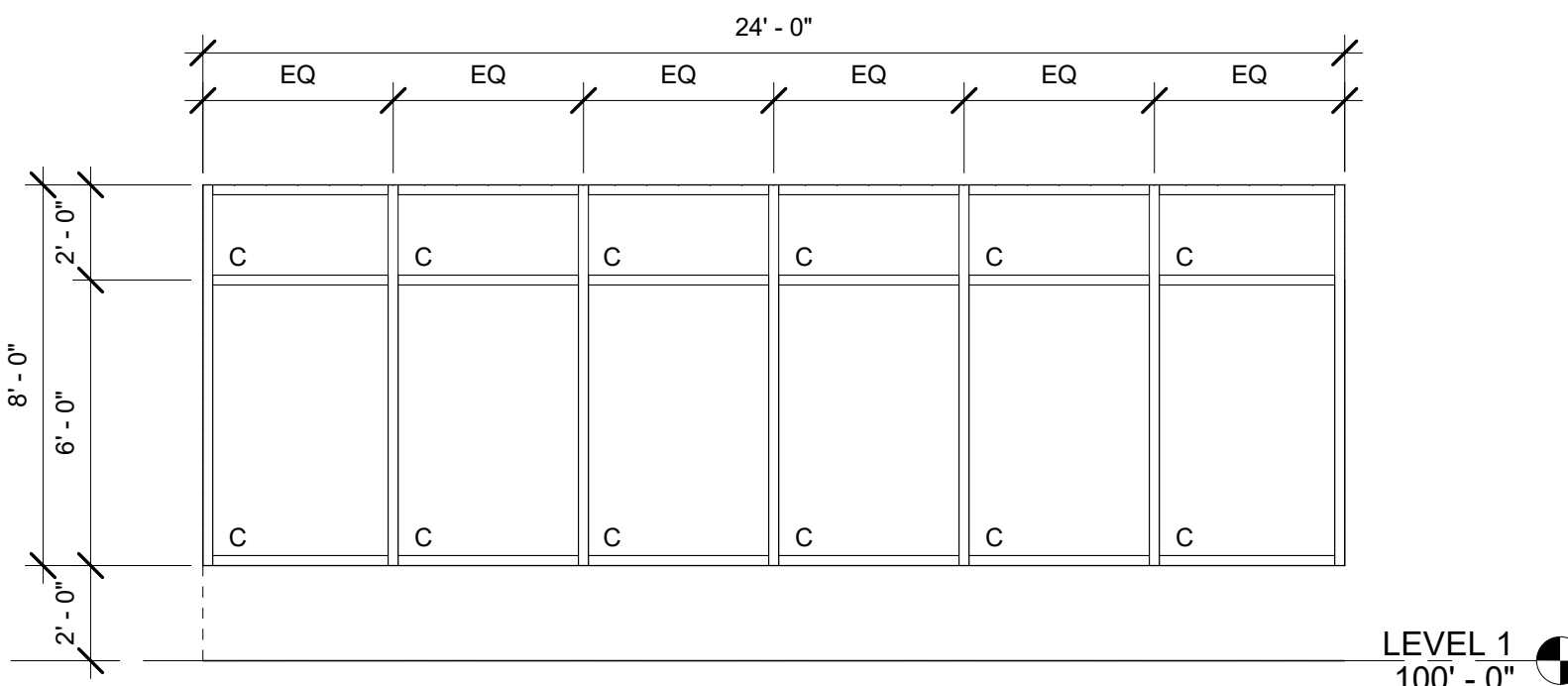
Door Schedule							
Door Number	Door Panels Number	Door Panel Width	Door Panel Height	Door Panel Material Finish	Type	Door Frame Material Finish	Comments
100F	SNGL	2' - 6"	8' - 0"	WD / STN	Single	HM / PNT	
101	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
102	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
103	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
104	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
105	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
106	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
107	SNGL	2' - 6"	8' - 0"	WD / STN	Single	HM / PNT	
108	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
109	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
110	SNGL	3' - 0"	8' - 0"	DOOR PANELS TH	Single	HM / PNT	
111	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
112	SNGL	4' - 0"	8' - 0"	ALUM / CLR	Single	ALUM / CLR	
113	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
114	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
115	PR	3' - 0"	8' - 0"	ALUM / MAT	Double	ALUM / CLR	
116	PR	3' - 0"	8' - 0"	ALUM / MAT	Double	ALUM / CLR	
117	PR	3' - 0"	8' - 0"	ALUM / MAT	Double	ALUM / CLR	
118	PR	3' - 0"	8' - 0"	ALUM / MAT	Double	ALUM / CLR	
119	SNGL	3' - 0"	8' - 0"	ALUM / MAT	Single	ALUM / CLR	
120	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
121	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
122	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
123	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
124	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
126	PR	3' - 0"	8' - 0"	ALUM / MAT	Double	ALUM / CLR	
127	PR	3' - 0"	8' - 0"	WD / STN	Double	HM / PNT	
128	PR	3' - 0"	8' - 0"	WD / STN	Double	HM / PNT	



W - 4

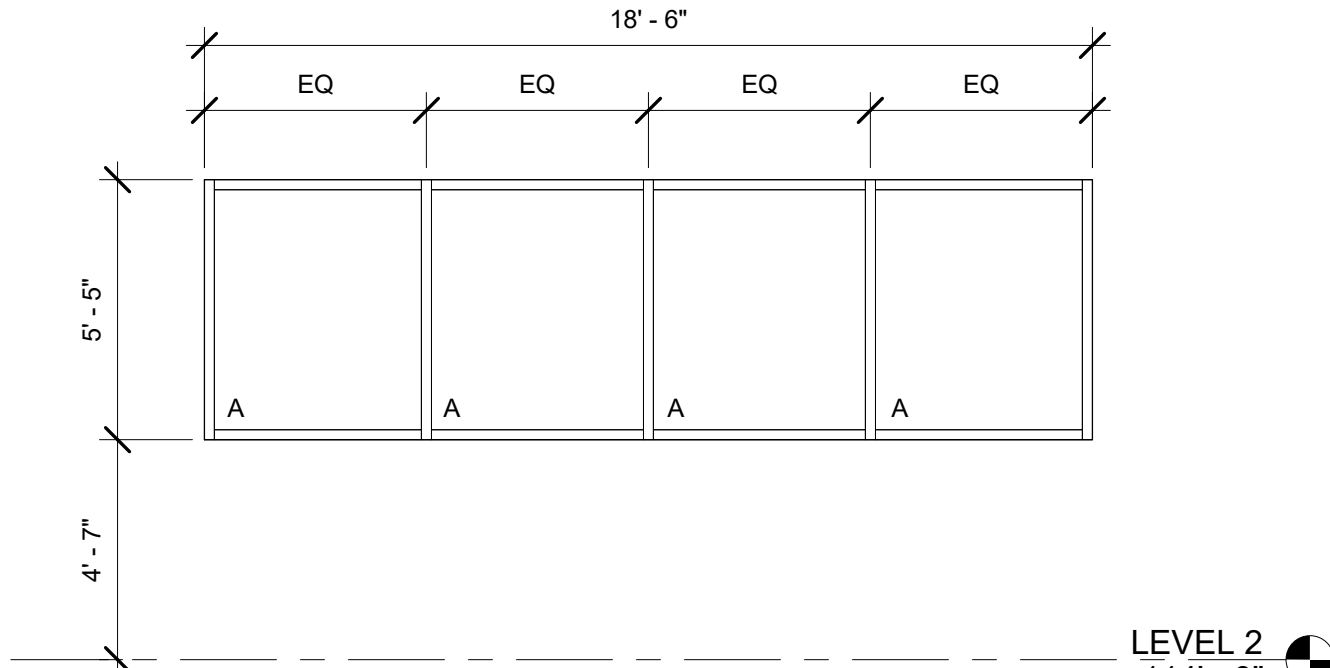


W - 1

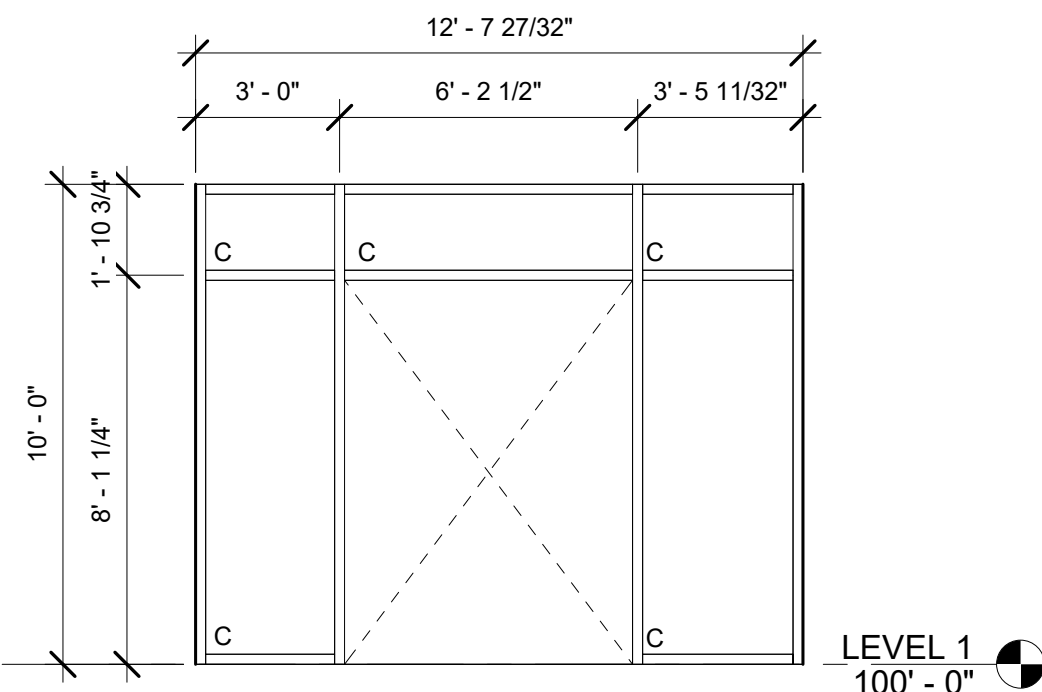


SF - 2

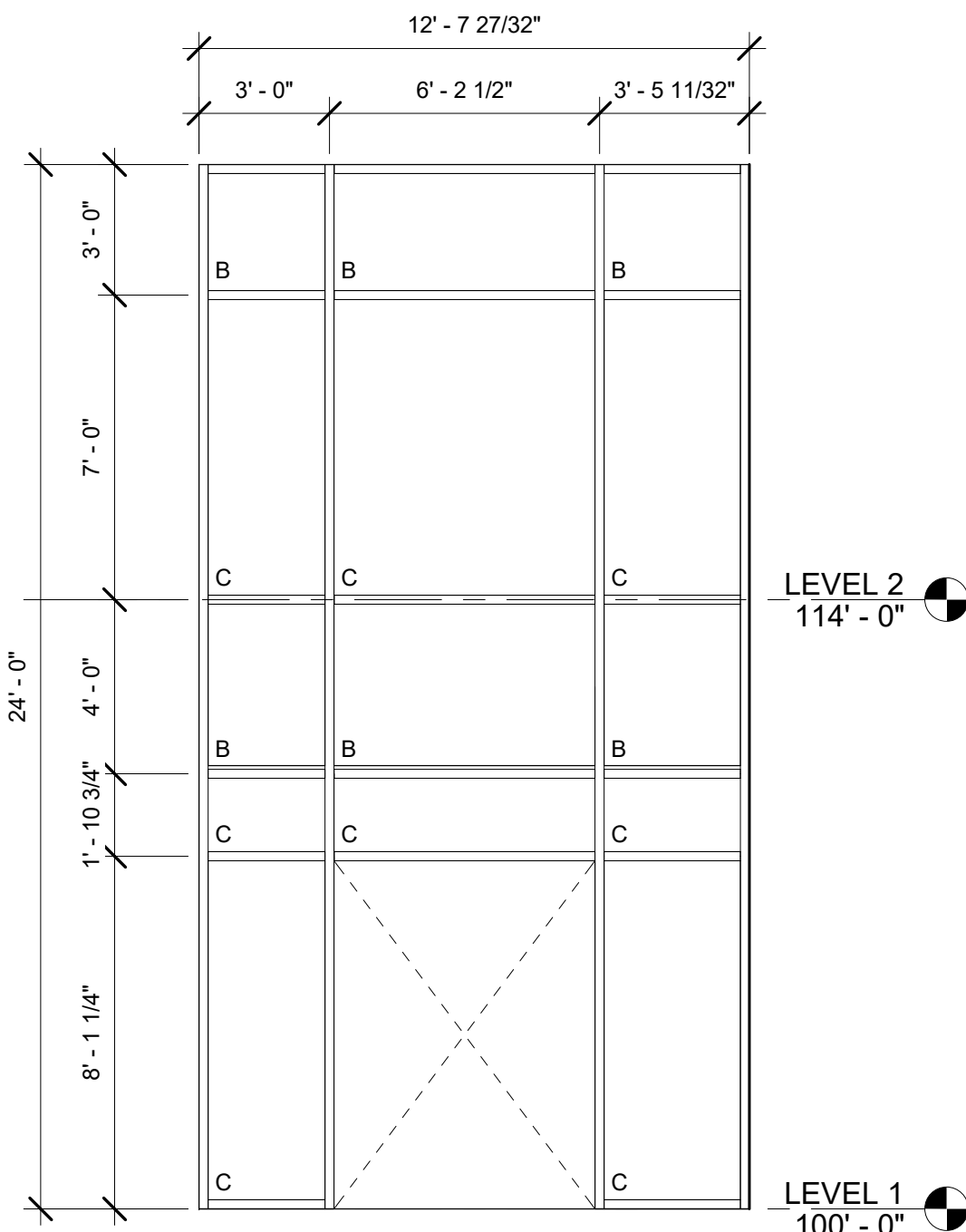
Door Schedule							
Door Number	Door Panels Number	Door Panel Width	Door Panel Height	Door Panel Material Finish	Type	Door Frame Material Finish	Comments
129	PR	3' - 0"	8' - 0"	WD / STN	Double	HM / PNT	
200F	SNGL	2' - 6"	8' - 0"	WD / STN	Single	HM / PNT	
201	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
202	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
203	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
204	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
205	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
206	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
207	SNGL	2' - 6"	8' - 0"	WD / STN	Single	HM / PNT	
208	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
209	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
210	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
211	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
212	SNGL	3' - 0"	8' - 0"	ALUM / MAT	Single	ALUM / CLR	
300F	SNGL	2' - 6"	8' - 0"	WD / STN	Single	HM / PNT	
301	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
302	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
303	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
304	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
305	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
306	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
307	SNGL	2' - 6"	8' - 0"	WD / STN	Single	HM / PNT	
308	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
309	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
310	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
311	SNGL	3' - 0"	8' - 0"	WD / STN	Single	HM / PNT	
312	SNGL	3' - 1 1/2"	8' - 0"	ALUM / MAT	Single	ALUM / CLR	
313	SNGL	3' - 1 1/2"	8' - 0"	ALUM / MAT	Single	ALUM / CLR	
401	SNGL	3' - 0"	8' - 0"	ALUM / MAT	Single	HM / PNT	
402	SNGL	3' - 0"	8' - 0"	ALUM / MAT	Single	HM / PNT	
403	SNGL	3' - 0"	8' - 0"	ALUM / MAT	Single	HM / PNT	
404	SNGL	3' - 0"	8' - 0"	ALUM / MAT	Single	HM / PNT	
405	SNGL	3' - 0"	8' - 0"	ALUM / MAT	Single	HM / PNT	



W - 3



SF - 1



CW - 1



ARCH 6016-001 FALL 2022 ELECTIVE GRADUATE STUDIO

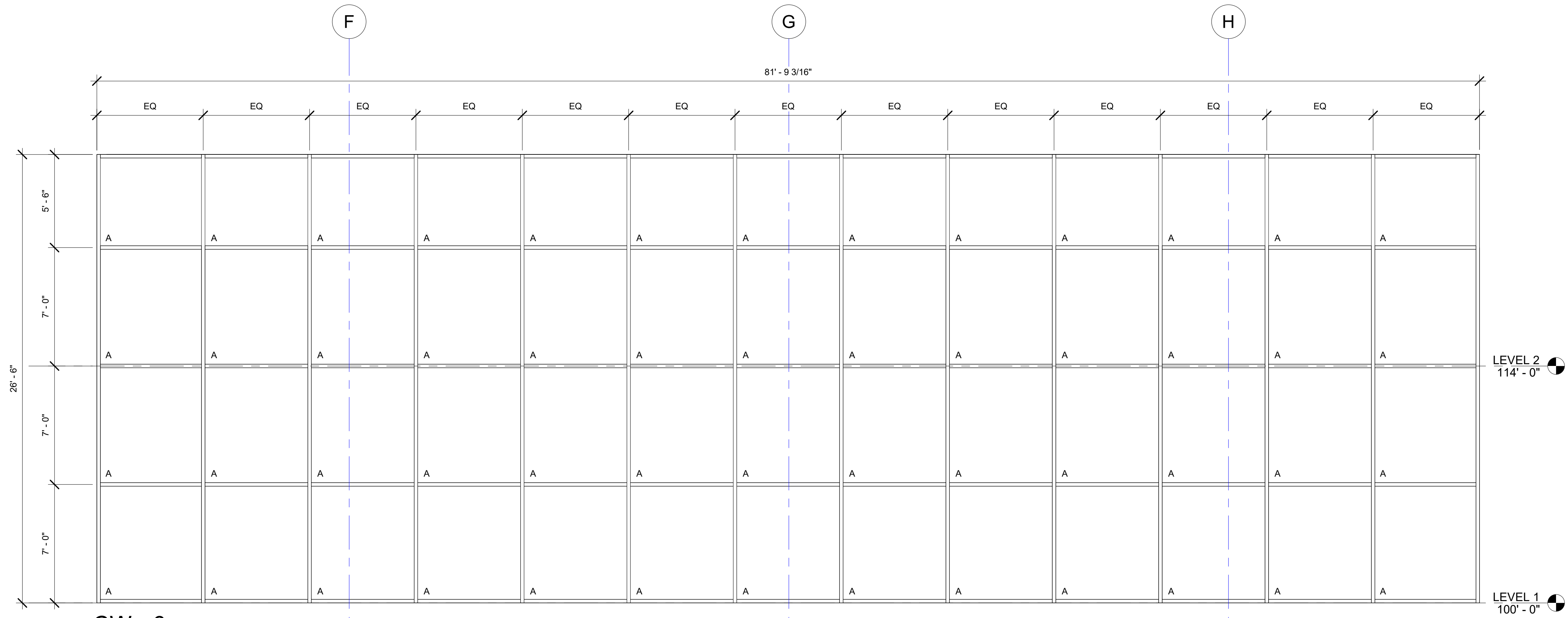
No.	Description	Date

Project Name:
TAX HAWK OFFICE AND BASKETBALL FACILITY
Location:
1255 S State Street
Provo, UT 84606
Client Name:
TaxHawk
1366 E 1120th S
Provo, UT 84606

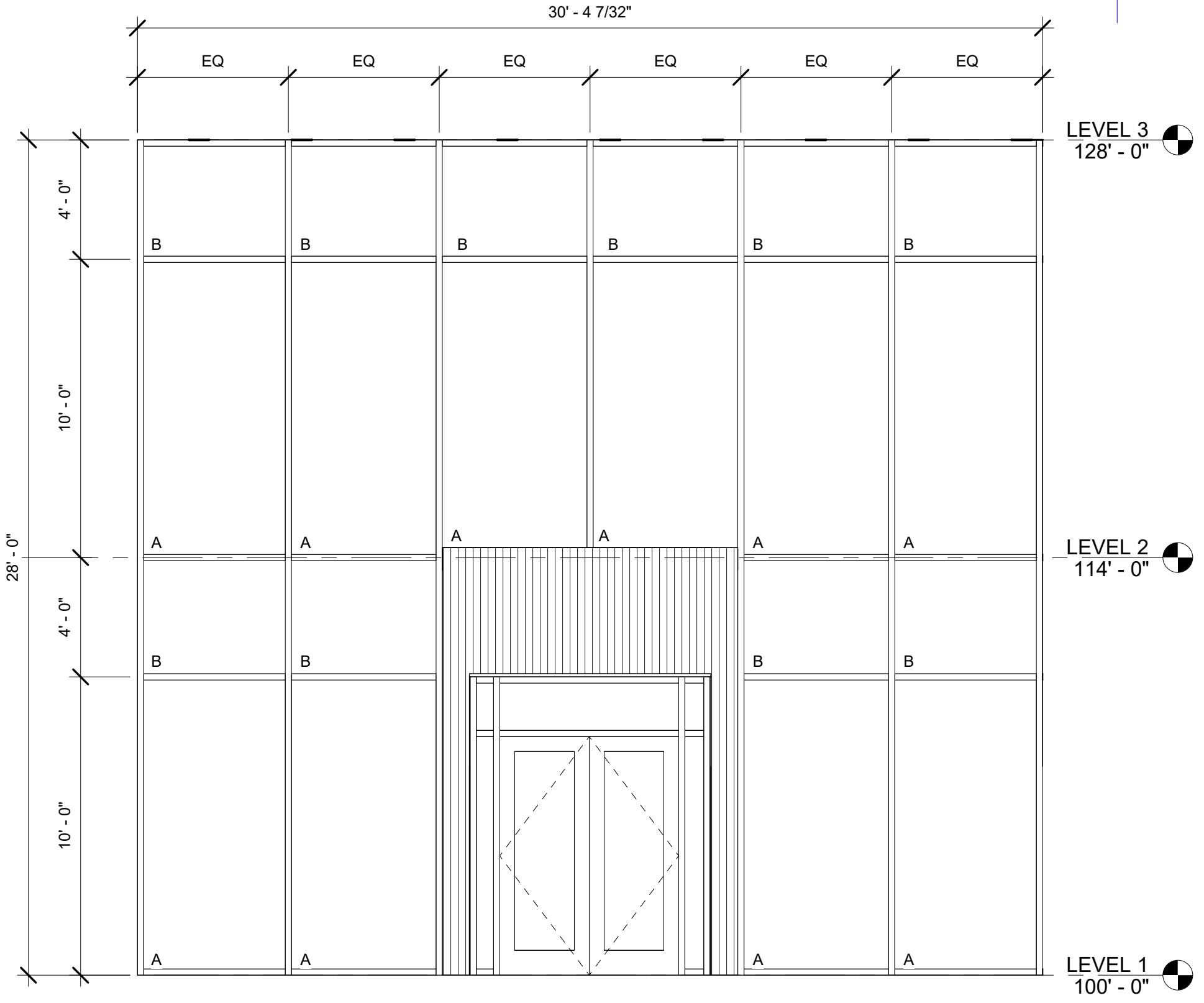
Project Number: 2022.08.22
Issued Date: 07 December, 2022
Drawn By: Aastha Shrestha
Checked By: Ar. Robert Pinon

DOOR AND WINDOW SCHEDULES

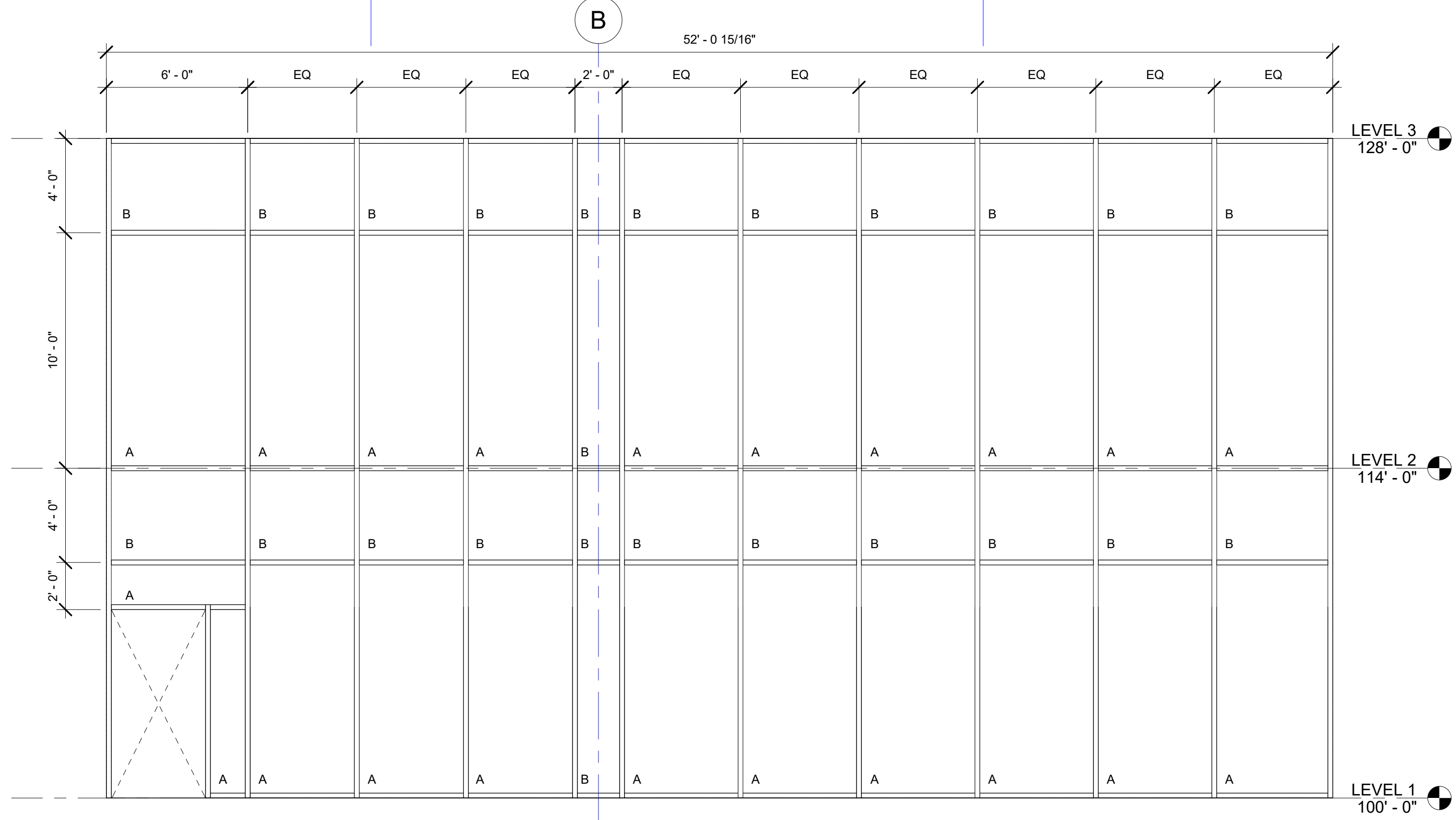
GLAZING LEGEND	
A	- LAMINATED DOUBLE GLAZED GLASS
B	- CLEAR TEMPERED GLASS
C	- SPANDREL GLASS



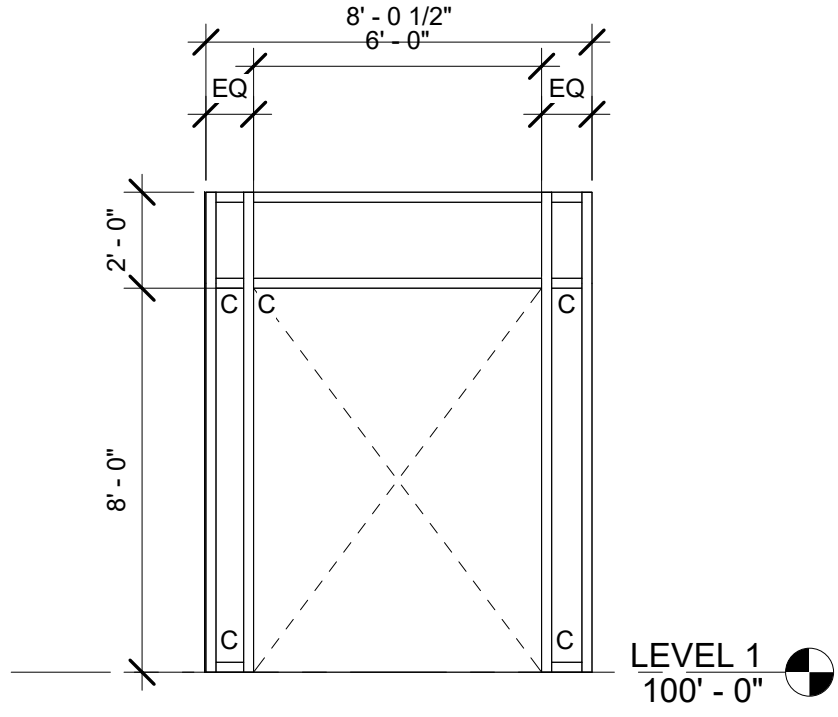
CW - 6



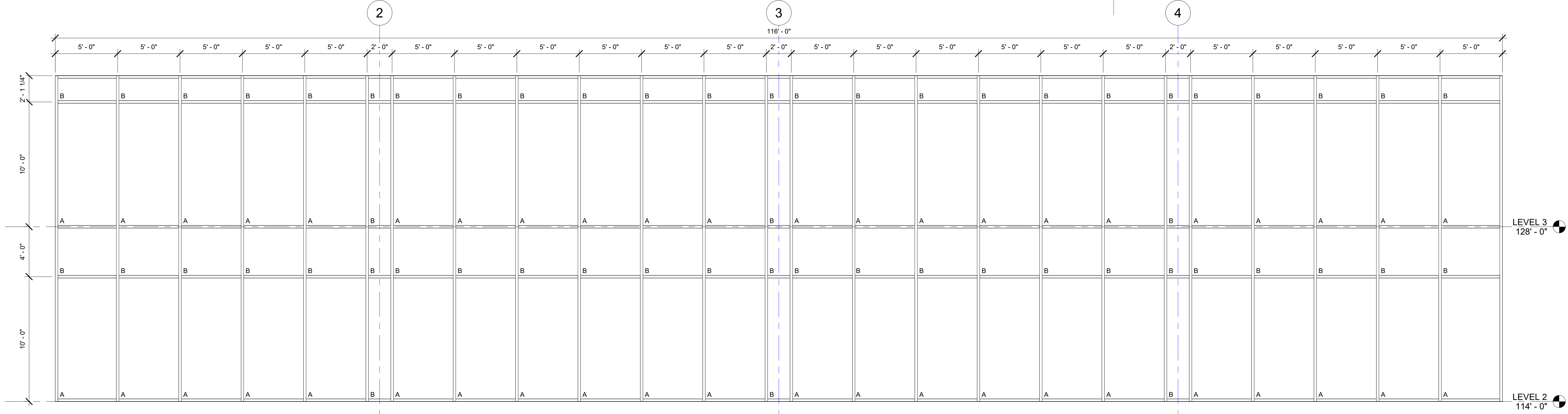
CW - 5



CW - 4



SF - 4



CW - 7



ARCH 6016-001 FALL 2022 ELECTIVE GRADUATE STUDIO

No.	Description	Date

Project Name:
**TAX HAWK OFFICE
AND
BASKETBALL FACILITY**
Location:
1255 S State Street
Provo, UT 84606

Client Name:
TaxHawk®
1366 E 1120th S
Provo, UT 84606

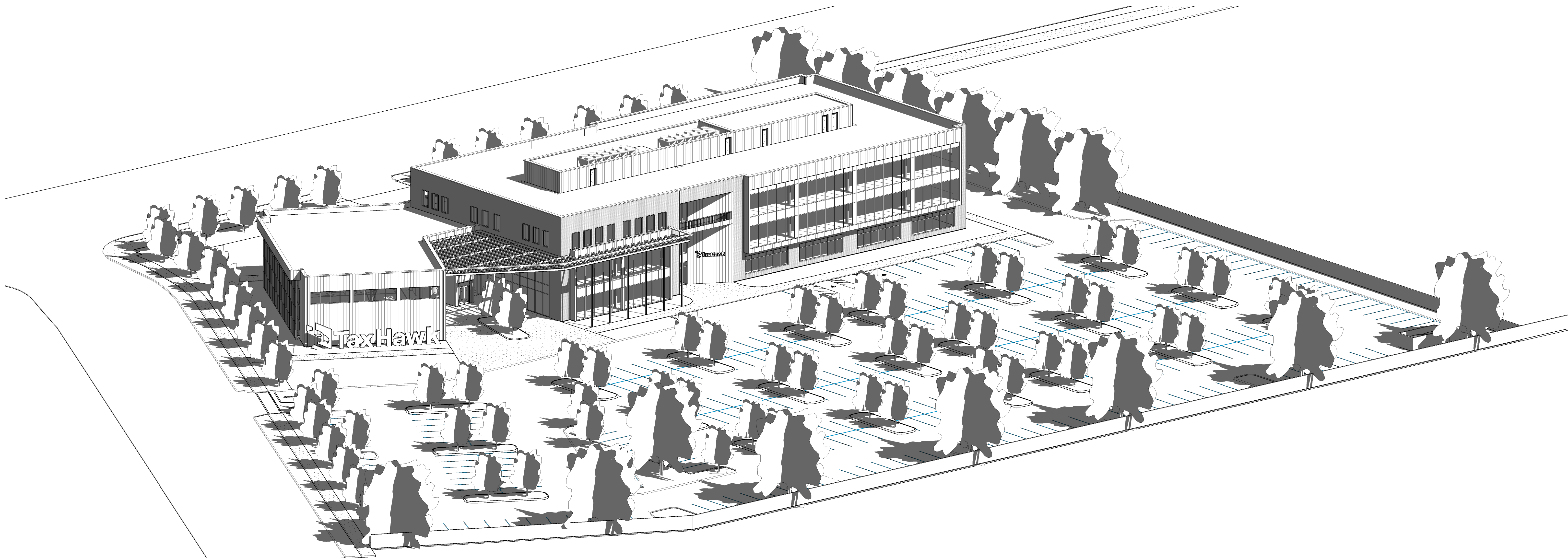
Project Number: 2022.08.22
Issued Date: 07 December, 2022
Drawn By: Aastha Shrestha
Checked By: Ar. Robert Pinon

**DOOR AND WINDOW
SCHEDULES**

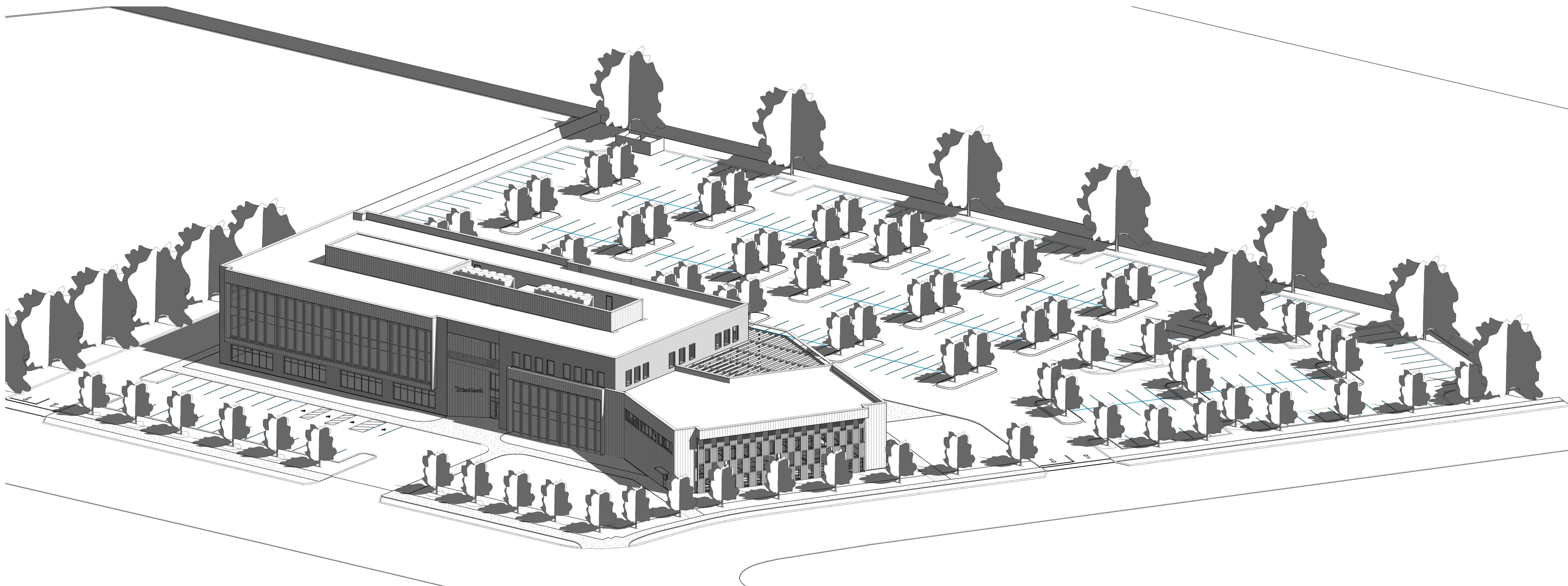


ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



2 AXONOMETRIC VIEW 2



1 AXONOMETRIC VIEW 1

Project Name:
**TAX HAWK OFFICE
AND
BASKETBALL FACILITY**

Location:
1255 S State Street
Provo, UT 84606

Client Name:

1366 E 1120th S
Provo, UT 84606

Project Number: 2022.08.22
Issued Date: 07 December, 2022
Drawn By: Aastha Shrestha
Checked By: Ar. Robert Pinon

AXONOMETRIC VIEWS



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



4. VIEW OF INNER DRIVEWAY



2. VIEW OF MAIN ENTRY FROM STATE STREET



3. VIEW FROM STATE STREET



1. VIEW FROM STREET CORNER

Project Name:

TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

Client Name:



1366 E 1120th S
Provo, UT 84606

Project Number: 2022.08.22

Issued Date: 07 December, 2022

Drawn By: Aastha Shrestha

Checked By: Ar. Robert Pinon

3D VIEWS



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



4. VIEW OF INNER DRIVEWAY



2. VIEW OF PLAZA FROM EAST DRIVEWAY



3. VIEW FOF PICKLE BALL COURT FROM SECONDARY ENTRANCE



1. VIEW FROM EAST DRIVEWAY

Project Name:

TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

Client Name:



1366 E 1120th S
Provo, UT 84606

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Issued Date: 07 December, 2022

Drawn By: Aastha Shrestha

Checked By: Ar. Robert Pinon

3D VIEWS



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



4. VIEW OF TENANT SPACE - NORTHWEST



2. VIEW FROM TENANT SPACE - EAST



3. VIEW OF PICKLE BALL COURT



1. VIEW OF ELEVATOR LOBBY

Project Name:

TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

Client Name:



1366 E 1120th S
Provo, UT 84606

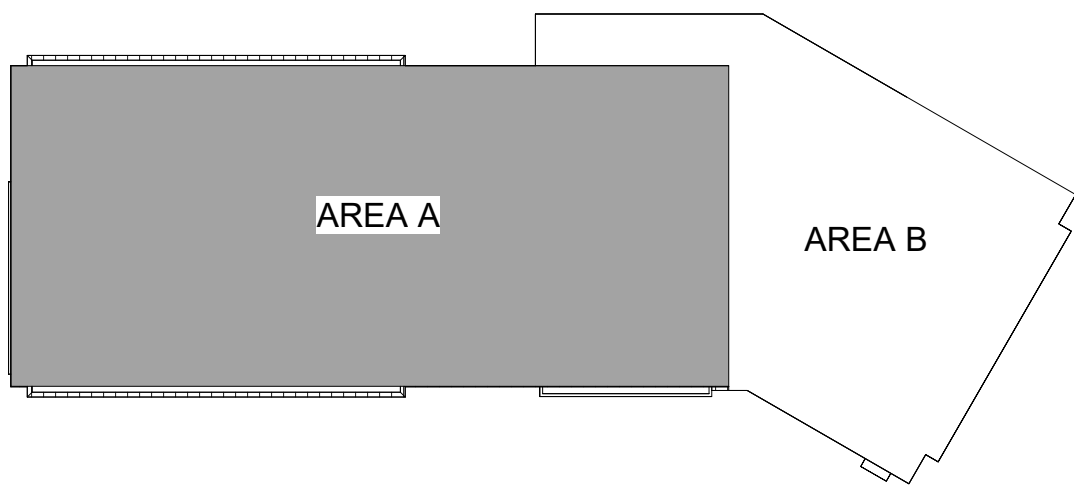
Project Number: 2022.08.22

Issued Date: 07 December, 2022

Drawn By: Aastha Shrestha

Checked By: Ar. Robert Pinon

3D VIEWS

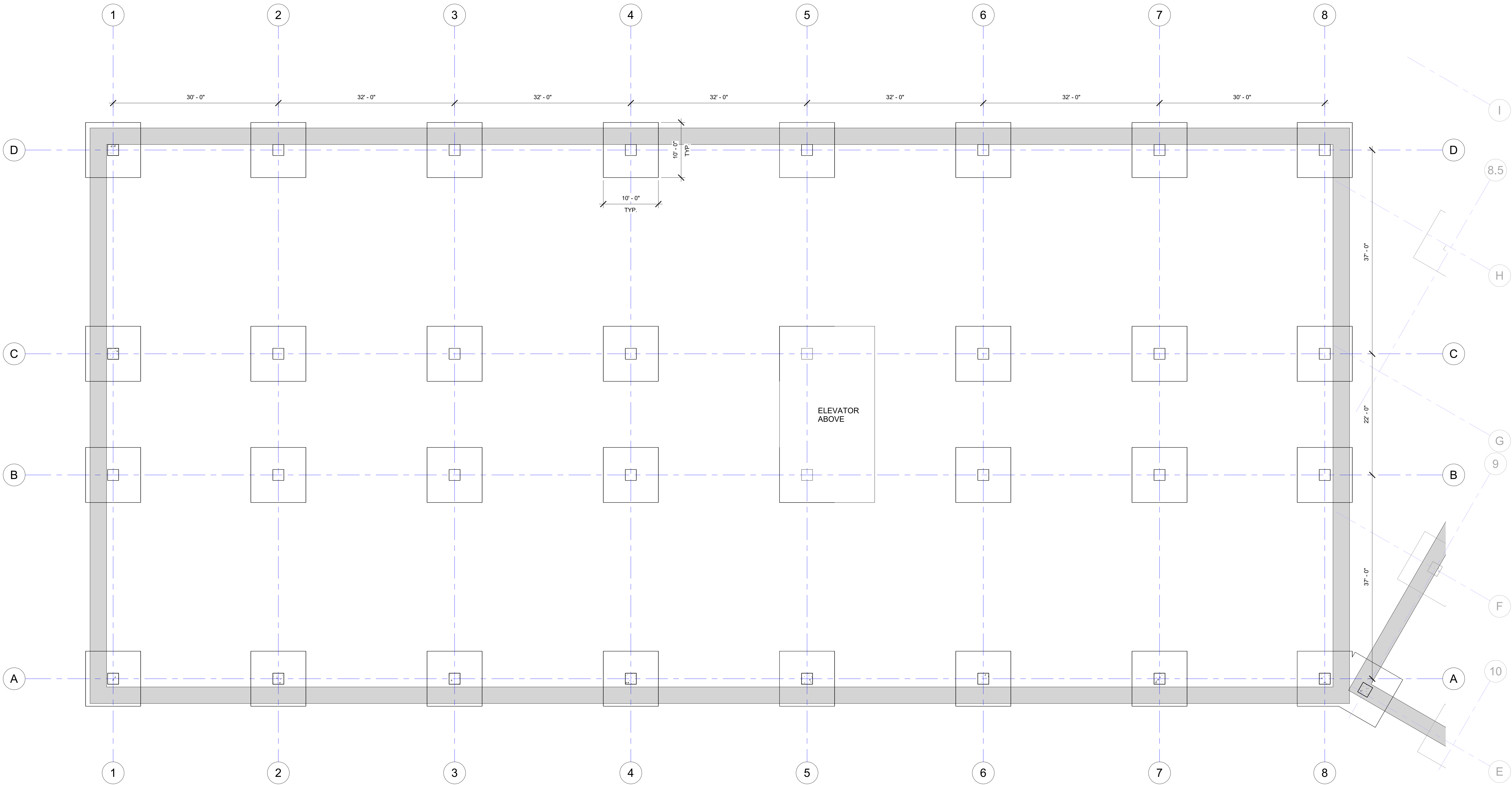


KEY PLAN

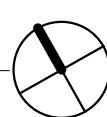


ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



1 FOOTING PLAN-AREA A
1/8" = 1'-0"



Project Name:

TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

Client Name:


1366 E 1120th S
Provo, UT 84606

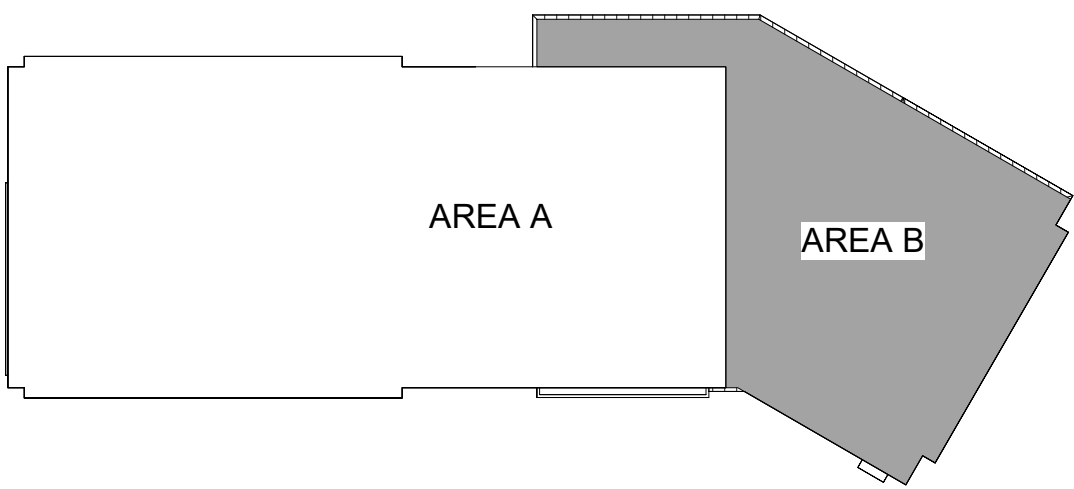
Project Number: 2022.08.22

Issued Date: 07 December, 2022

Drawn By: Aastha Shrestha

Checked By: Ar. Robert Pinon

FOOTING PLAN

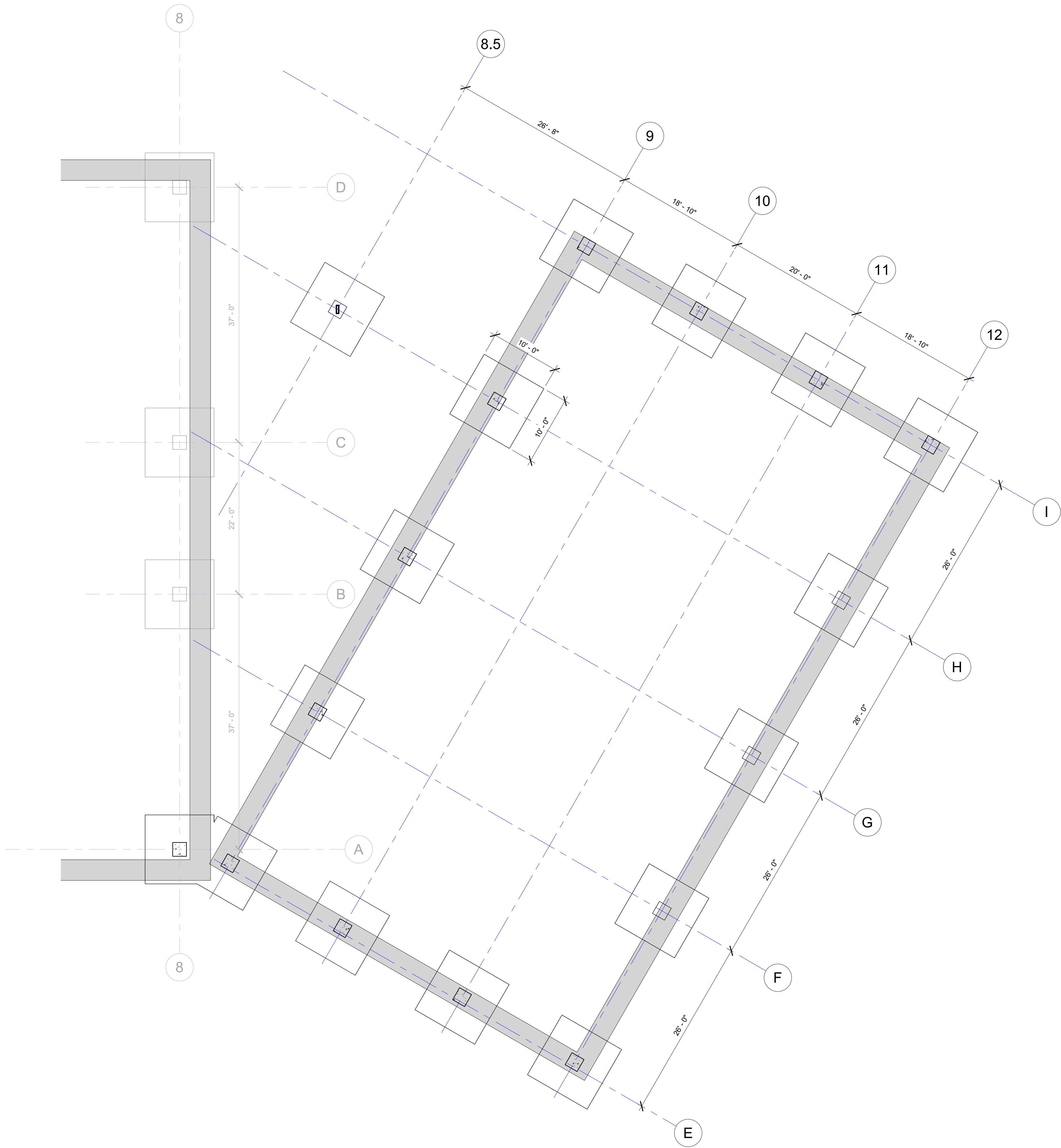


KEY PLAN



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



② FOOTING PLAN-AREA B
1/8" = 1'-0"

Project Name:

TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

Client Name:



1366 E 1120th S
Provo, UT 84606

Project Number: 2022.08.22

Issued Date: 07 December, 2022

Drawn By: Aastha Shrestha

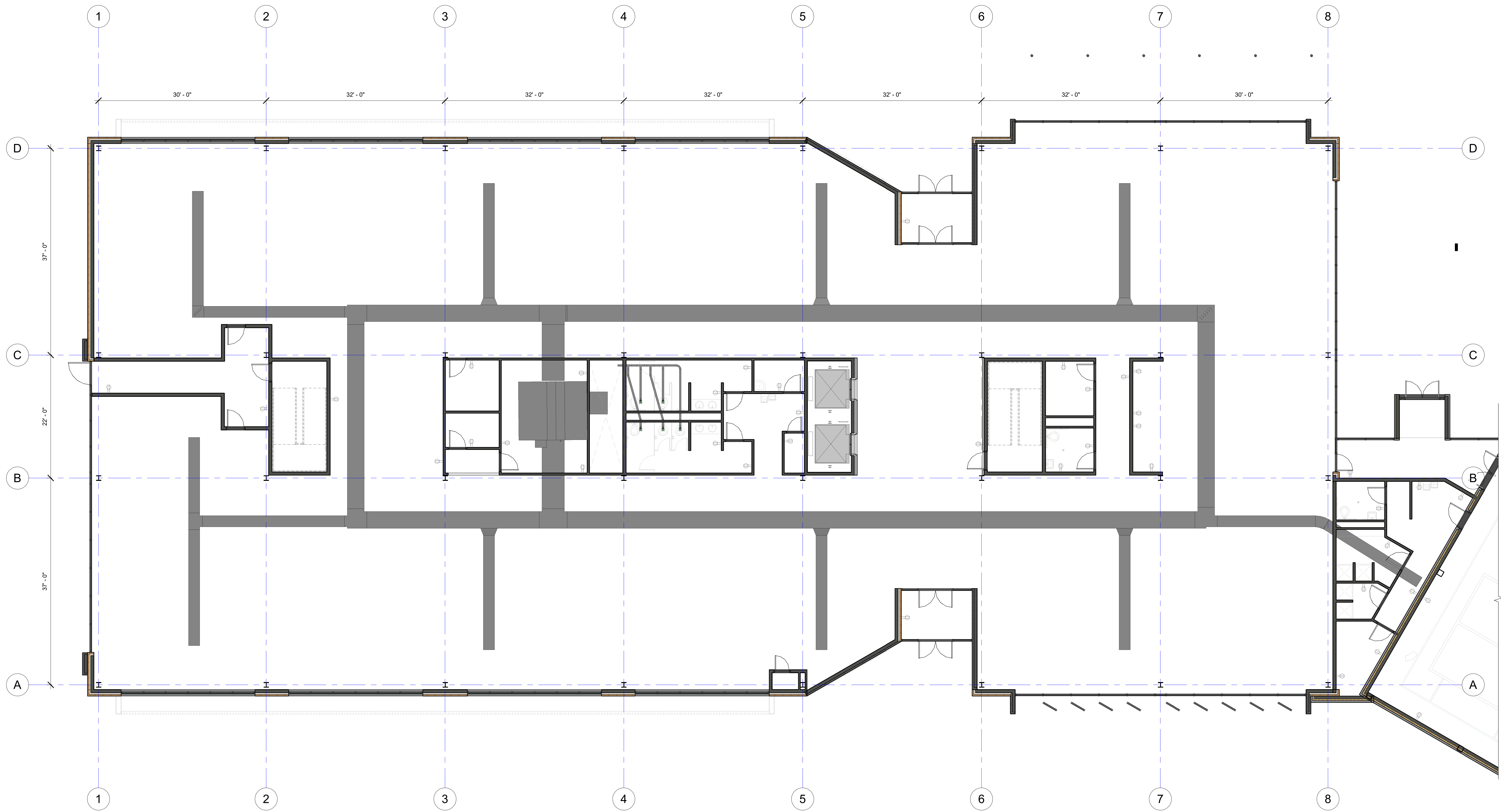
Checked By: Ar. Robert Pinon

FOOTING PLAN



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



① LEVEL 1 MECHANICAL PLAN
1/8" = 1'-0"

Project Name:
**TAX HAWK OFFICE
AND
BASKETBALL FACILITY**
Location:
1255 S State Street
Provo, UT 84606

Client Name:
TaxHawk®
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Provo, UT 84606

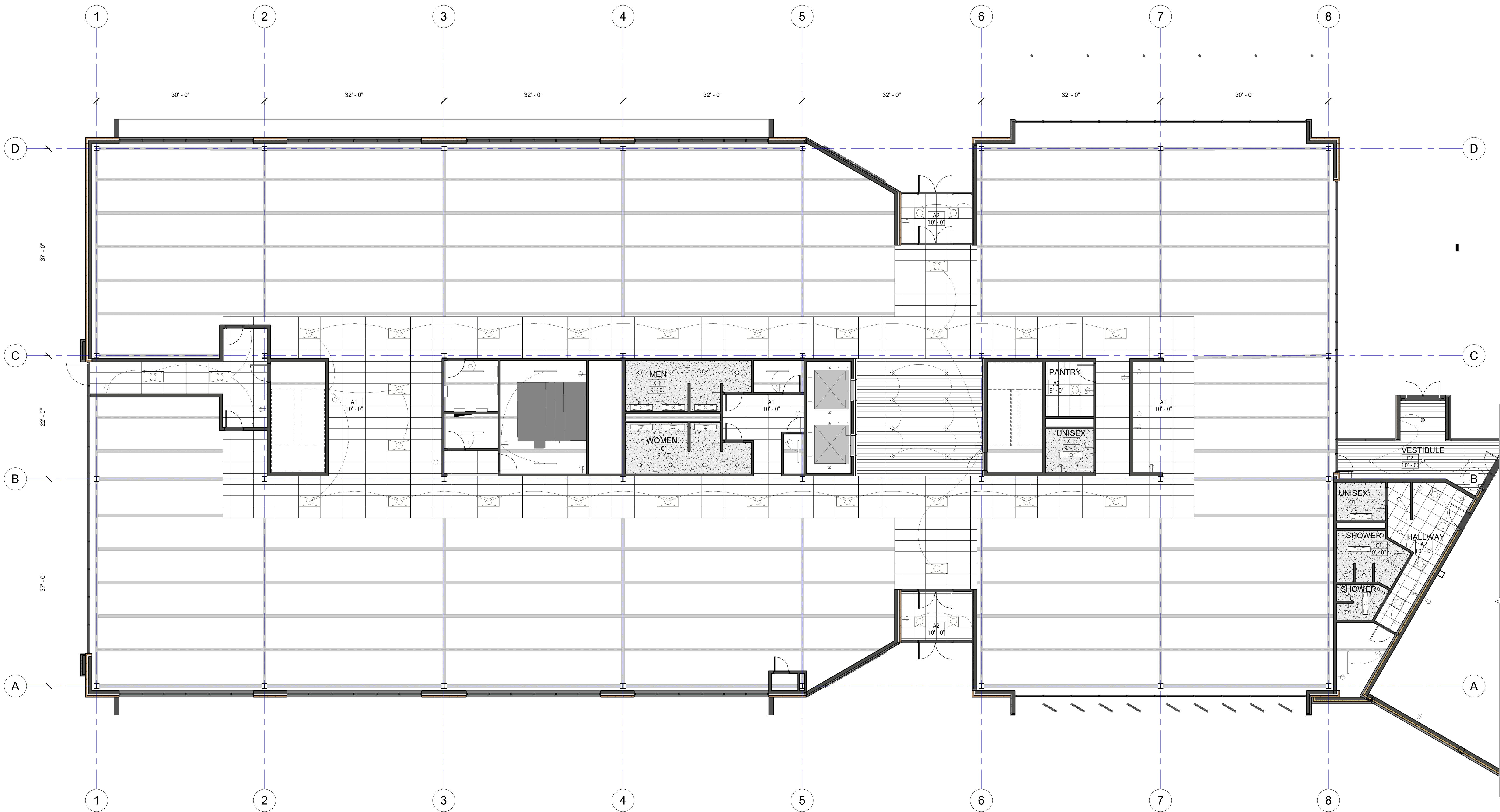
Project Number: 2022.08.22
Issued Date: 07 December, 2022
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LEVEL 1 MECHANICAL
PLAN



ARCH 6016-001 FALL 2022 ELECTIVE
GRADUATE STUDIO

No.	Description	Date



1 LEVEL 1 ELECTRICAL PLAN
1/8" = 1'-0"

Project Name:

TAX HAWK OFFICE
AND
BASKETBALL FACILITY

Location:
1255 S State Street
Provo, UT 84606

Client Name:



1366 E 1120th S
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Project Number: 2022.08.22

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Drawn By: Aastha Shrestha

Checked By: Ar. Robert Pinon

LEVEL 1 ELECTRICAL
PLAN

Analysis Summary

Location

1255 S State St, Provo, UT 84606, USA

Climate Zone

ASHRAE Climate Zone 5

33

Walk Score®

Car-Dependent

13

Transit Score®

Minimal Transit

42

Bike Score®

Somewhat Bikeable



Office

19

Overall Energy

The current model is done using [ASHRAE 2019 - IECC 2021 Equivalent](#) energy code assumptions. The current design is [better](#) than the national average and can be significantly improved by higher performance of envelope, HVAC and more. The building load is driven by [Equipment](#) and [Heating](#).

Initial Energy modeling, outputs, and conservation

Proposed Whole Baseline EUI



Office

26.7 kBtu/ft²/yr

LEED Points - EAc2 Credit ?



Electricity

\$30735.12 /yr

Gas

\$4867.77 /yr

CO2 Reduction %



2030 Baseline

964.6 Tonne

CO₂e/yr

Emissions

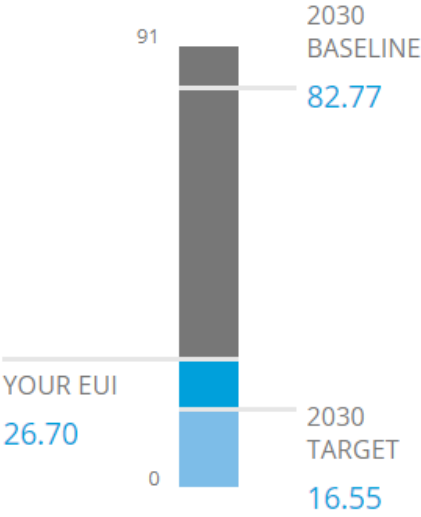
311.2 Tonne

CO₂e/yr

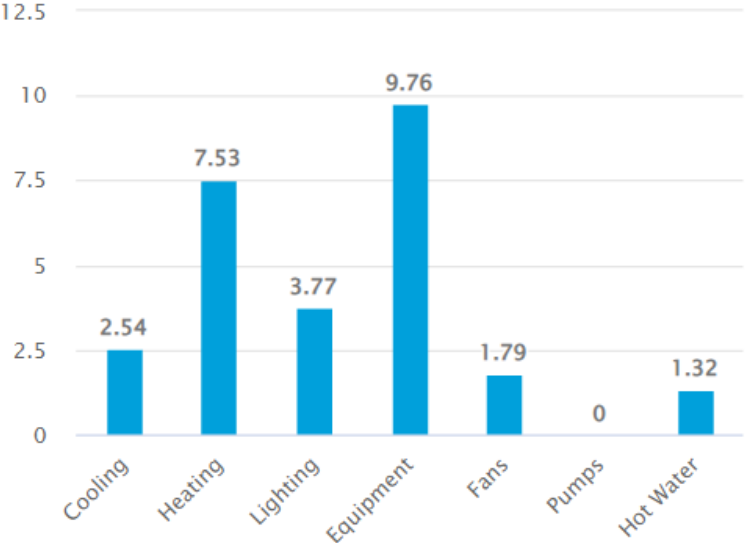
You Saved

98 Trucks of Ice/yr

Benchmarking Energy



Proposed Whole Baseline EUI Breakdown



Water Consumption Analysis

Total Water Use (gal/yr)



LEED Points - WEC1-c2 Credit ?

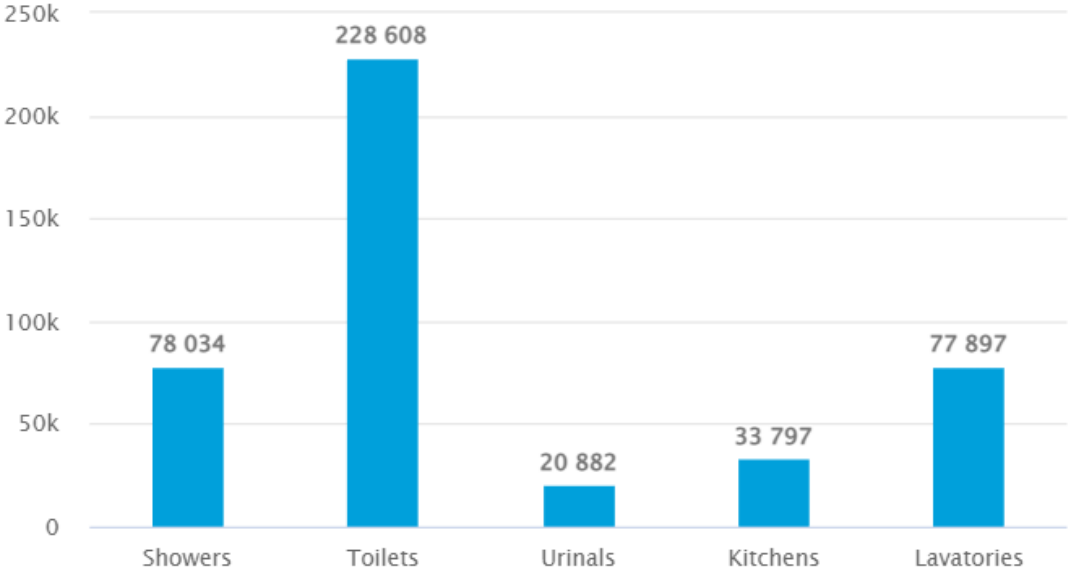


Office
Cooling
Tower
Outdoor
WU

439218 gal/yr
0 gal/yr
6084 gal/yr

Indoor Reduction 37 %
Outdoor Reduction 0 %

Indoor Water Use Breakdown



Indoor, outdoor, and stormwater management calculation.

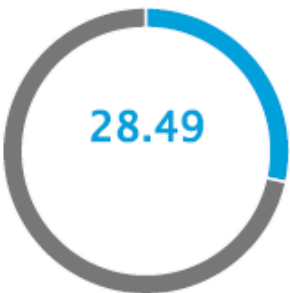
Indoor WUI (gal/ft²/yr)



Office

5.88 gal/ft²/yr

Stormwater Managed Onsite %



Total Runoff

157500 gal/yr

Irrigation WUI (gal/ft²/yr)



Total
Irrigation
Water Use

6084 gal/yr

Indoor Water Use ?

Toilets (gal/flush) ?

1.6

Urinals (gal/flush) ?

1

Showers (gal/min) ?

2.5

Kitchens (gal/min) ?

2.2

Lavatories (gal/min) ?

0.5

Graywater (%) ?

0

Baseline Flow Rate

Low Flow Rate

1.1

0.2

1.5

1.3

0.5

Rainwater Storage (ft³) ?

0

Impervious Area (ft²) ?

165400

Turf Area (ft²) ?

12300

Native Plants Area (ft²) ?

44750

Semi-Pervious Area (ft²) ?

0

Irrigated Area (ft²) ?

12300

Potable Water Irrigation ?

Yes

Evapotranspiration (in) ?

Cool Humid

Plant Quality Factor ?

Baseline

Plant Factor (Pf) ?

Turf: 1

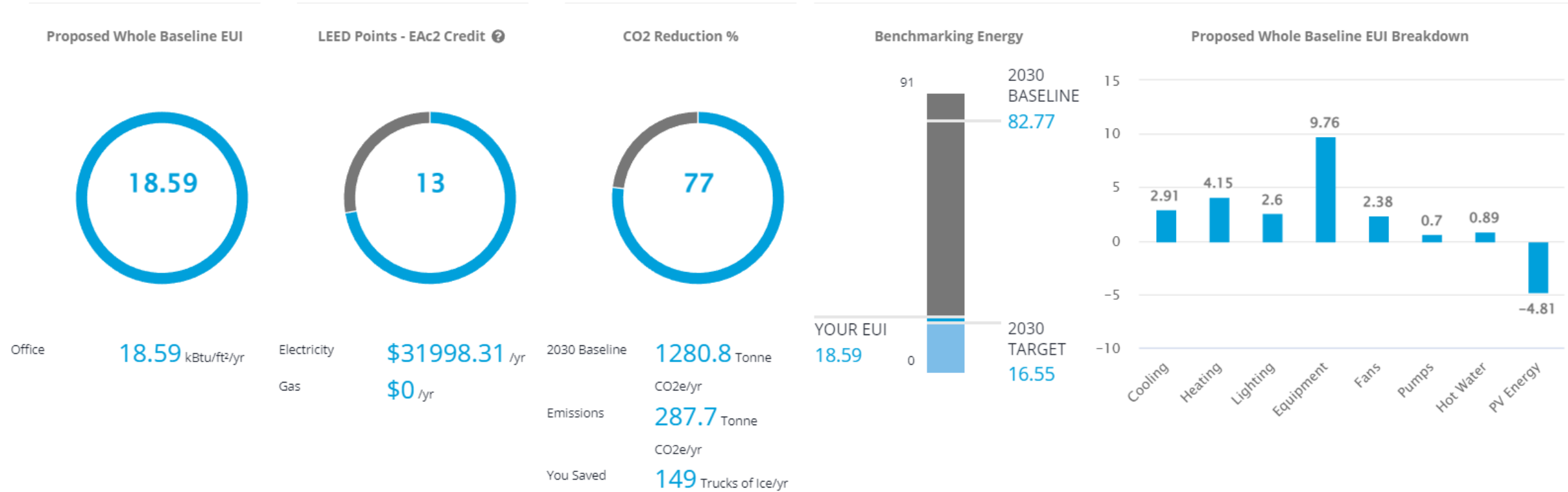
Irrigation Efficiency ?

Sprinklers

NOTES

- Using native plants that require less water and having a minimal footprint of lawn area by design helps to keep the irrigation usage to a minimum as much as possible.

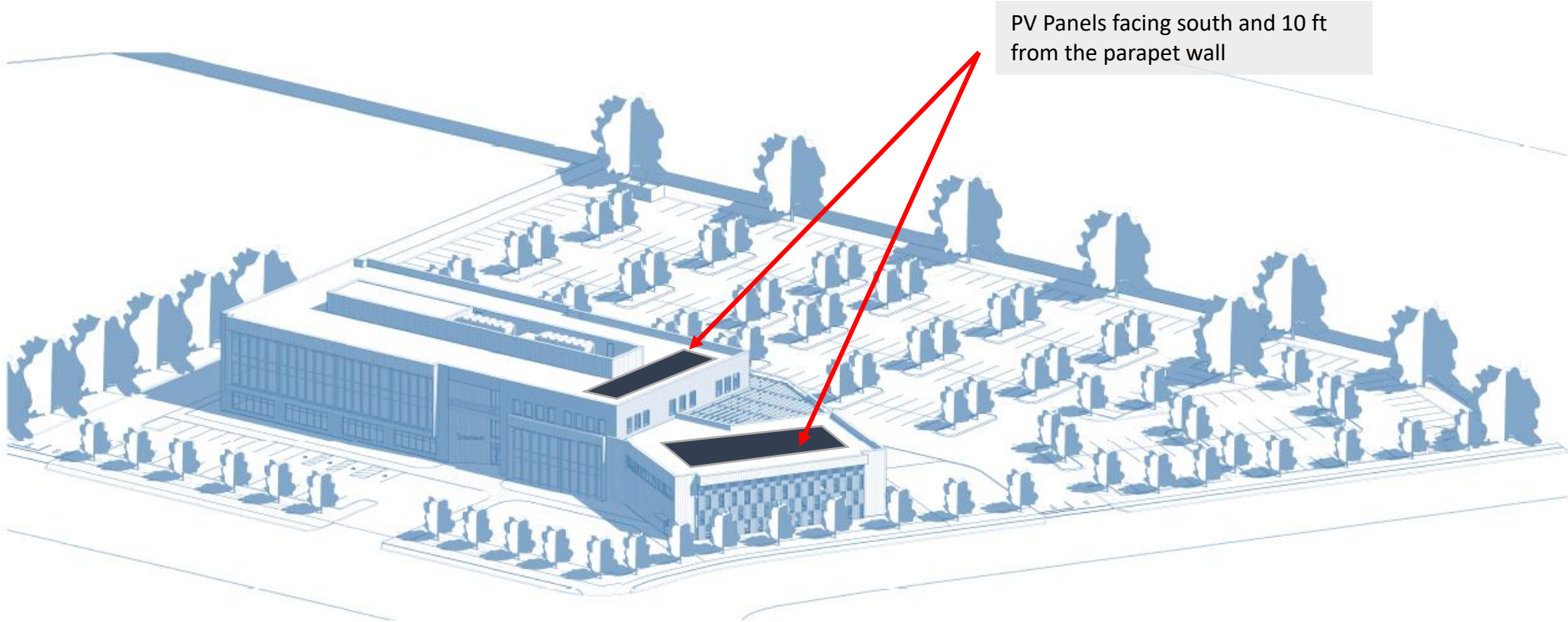
Optimization outputs: Final Baseline Energy before Cost vs Energy Optimization



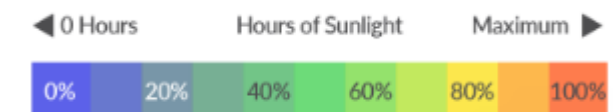
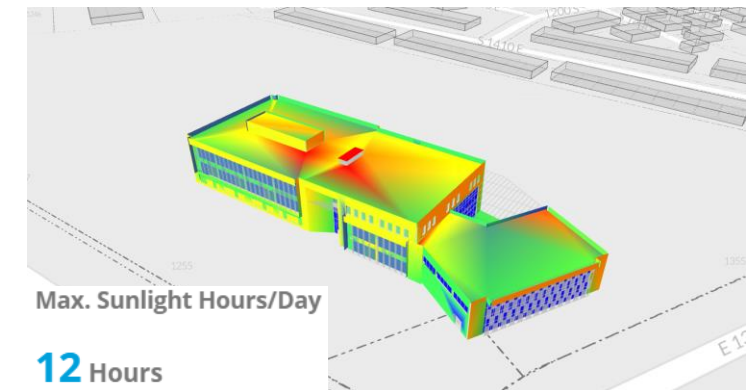
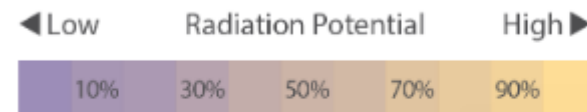
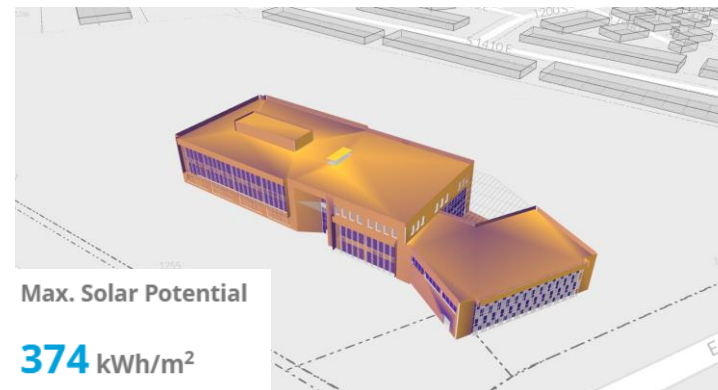
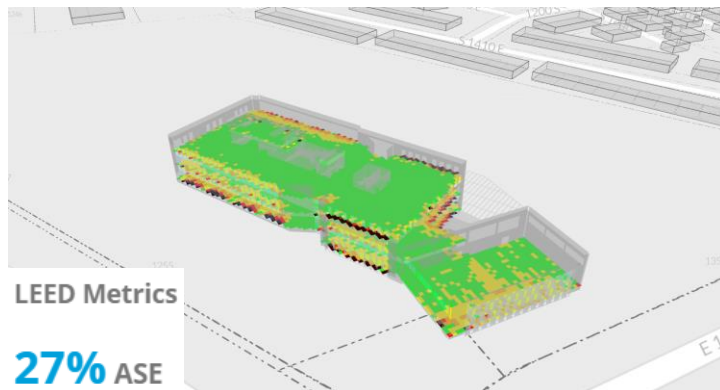
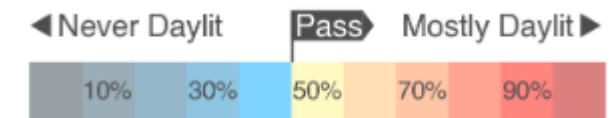
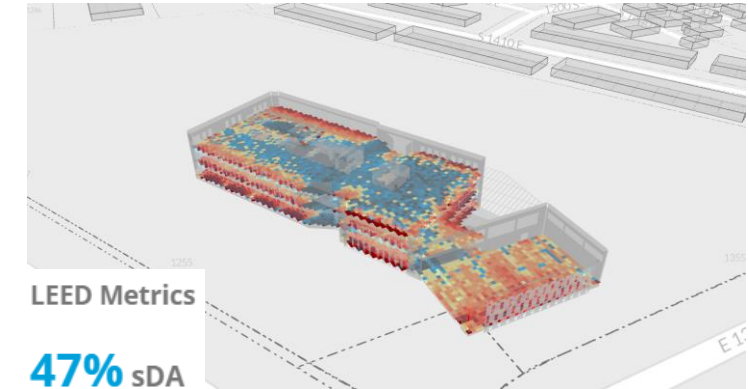
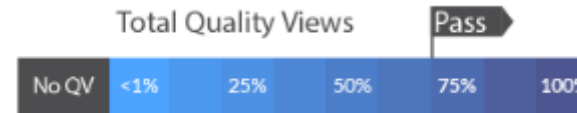
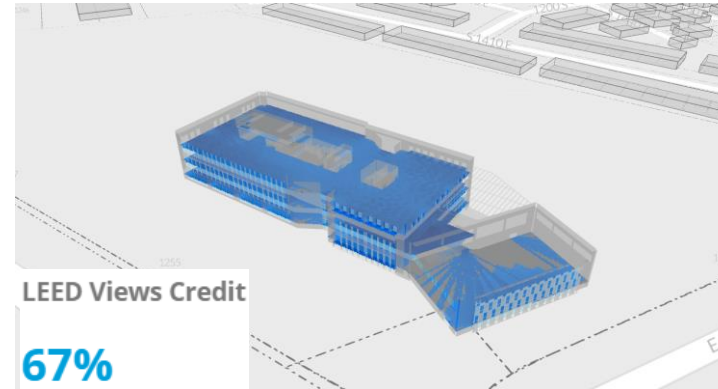
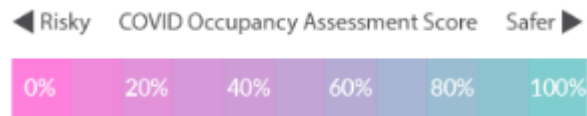
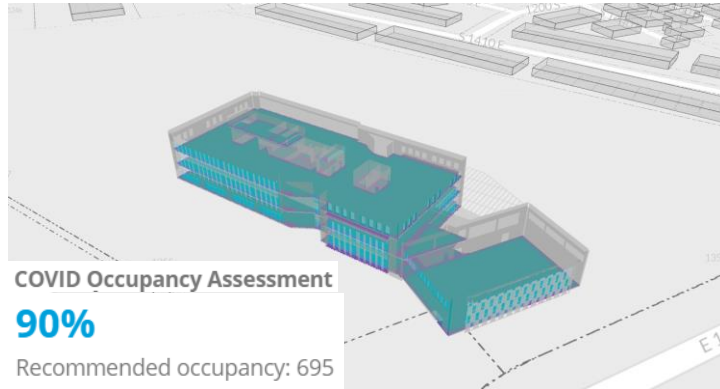
NOTES

- The initial baseline energy usage with default settings was around 27 EUI. I was able to offset 5.3 EUI by proposing solar panels on the southern side of the building. Also, changing the HVAC system, occupancy, R-values of roof and wall, and adding interior blinds and heat recovery option helped to bring down the total EUI from 27 EUI to 18.59 EUI which is very close to the target.

Proposed PV panel Locations



Three-dimensional (3D) visualization for daylight, glare, shadow, radiation, view quality, COVID, etc.



Shadow Study and Massing optimization

NOTES

- The building form is designed to be a heating-dominated building where the floor area is compact as possible for minimizing heat loss and HVAC efficiency.
- The massing has been broken up into two blocks: 1. Office and 2. Basketball Facility with a plaza in-between. These blocks are parallel to the streets that are facing respectively.
- The designed plaza between the office block and basketball block serves well as an outdoor space to house afternoon and evening events during the summer season. It remains shaded during the time period when the heat is the strongest.

