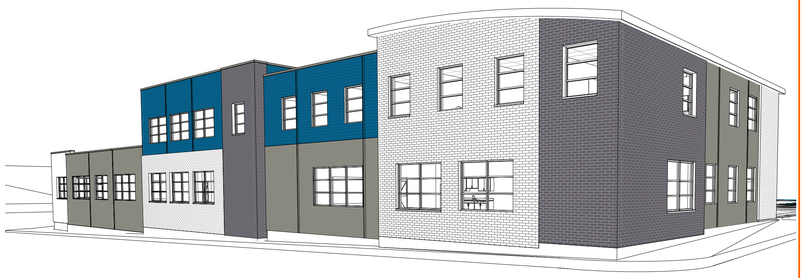


Design that *Makes* A Mark.

BOYS & GIRLS CLUB OF GREATER CINCINNATI

PRICE HILL TEEN CENTER & CORPORATE OFFICES

1205 Dewey Ave, Cincinnati, OH 45205

Drawing List

Sheet Number	Sheet Name
GENERAL	
G000	COVER SHEET
G100	CODE DATA SHEET
CIVIL	
C100	TITLE SHEET
C200	EXISTING CONDITIONS / DEMO PLAN
C300	GRADING PLAN
C400	UTILITY PLAN
C500	SITE LAYOUT PLAN
ARCHITECTURAL SITE	
AS100	ARCHITECTURAL SITE
ARCHITECTURAL	
A100	FIRST FLOOR PLAN
A101	SECOND FLOOR PLAN
A102	ROOF PLAN
A200	EXTERIOR ELEVATIONS
A201	ENLARGED BRICK ELEVATIONS
A202	ENLARGED BRICK ELEVATIONS
A203	BUILDING SECTIONS
A300	ENLARGED PLANS & INTERIOR ELEVATIONS
A400	FIRST FLOOR REFLECTED CEILING PLAN
A401	SECOND FLOOR REFLECTED CEILING PLAN
A500	WALL SECTIONS
A501	WALL SECTIONS
A503	PLAN & SECTION DETAILS
A600	SCHEDULES
STRUCTURAL	
S001	GENERAL STRUCTURAL NOTES
S002	GENERAL STRUCTURAL NOTES
S120	2ND FLOOR FRAMING AND LOW ROOF
S130	HIGH ROOF FRAMING PLAN
S200	ELEVATIONS
S201	ELEVATIONS
S310	FOUNDATION SECTIONS
S311	FOUNDATION SECTIONS
S320	FRAMING SECTIONS
S321	FRAMING SECTIONS
S330	FRAMING SECTIONS
S400	TYPICAL DETAILS
FIRE PROTECTION	
FP100	FIRE PROTECTION FIRST FLOOR PLAN
FP101	FIRE PROCTECTION SECOND FLOOR PLAN

Sheet Number	Sheet Name
PLUMBING	
P100	PLUMBING FIRST FLOOR PLAN
P101	PLUMBING SECOND FLOOR PLAN
P102	PLUMBING ROOF PLAN
P200	PLUMBING DETAILS, SCHEDULES, AND ISOMETRIC
MECHANICAL	
M100	MECHANICAL FIRST FLOOR PLAN
M101	MECHANICAL SECOND FLOOR PLAN
M102	MECHANICAL ROOF PLAN
M200	MECHANICAL DETAILS
ELECTRICAL	
E001	ELECTRICAL SITE PLAN
E100	ELECTRICAL POWER FIRST FLOOR PLAN
E101	ELECTRICAL POWER SECOND FLOOR PLAN
E102	ELECTRICAL POWER ROOF PLAN
E200	ELECTRICAL LIGHTING FIREST FLOOR PLAN
E201	ELECTRICAL LIGHTING SECOND FLOOR PLAN
E300	ELECTRICAL DETAILS AND SCHEDULES
S301	ELECTRICAL DETAILS
TELECOMMUNICATIONS	
T001	TECHNOLOGY LEGENDS
T002	TECHNOLOGY NOTES
T003	TECHNOLOGY NOTES
T010	TECHNOLOGY SITE PLAN
T011	FIRST FLOOR CABLE PATHWAY PLAN
T012	SECOND FLOOR CABLE PATHWAY PLAN
T101	TECHNOLOGY WIRELESS FIRST FLOOR PLAN
T102	TECHNOLOGY WIRELESS SECOND FLOOR PLAN
T103	COMMUNICATIONS NETWORK FIRST FLOOR PLAN
T104	COMMUNICATIONS NETWORK SECONDFLOOR PLAN
T105	PAGING SYSTEM FIRST FLOOR PLAN
T106	PAGING SYSTEM SECOND FLOOR PLAN
T107	SECURITY FIRST FLOOR PLAN
T108	A/V FIRST FLOOR PLAN
T109	A/V SECOND FLOOR PLAN
T501	TECHNOLOGY ROOMS AND GROUNDING
T502	TECHENOLOGY DETAILS (FACE PLATES)
T503	TECHNOLOGY DETAILS (ACCESS CONTROL DOORS)
T504	TECHNOLOGY DETAILS (SECURITY CAMERAS)
T505	TECHNOLOGY DETAILS (INTRUSION DETECTION)
T506	TECHNOLOGY DETAILS (PAGING)

Team

Owner:
BOYS & GIRLS CLUBS OF GREATER CINCINNATI
600 Dalton Ave. Cincinnati, OH 45203
Ph: 513.421.8909

OWNER'S REP:
JS HELD
3950 Virginia Ave, Cincinnati, OH
Ph: 513.838.3904

Architect:
Emboss
906 Monmouth Street, Newport, KY 41071
Ph: 859.431.8612

Civil Engineer:
ABERCROMBIE & ASSOCIATES
8111 Cheviot Road, Suite 200 Cincinnati, Ohio 45247
Ph: 513.385.5757

Structural Engineer:
Advantage Structural Engineers
1527 Madison Road, Cincinnati, OH 45206
Ph: 513.396.8900

Mechanical, Electrical, Plumbing, & Fire Protection Engineer:
Engineered Building System Inc.
515 Monmouth Street, Suite 201, Newport, KY 41071
Ph: 859.261.0585

General Project Notes

DIVISION 01 – GENERAL REQUIREMENTS

013000 – ADMINISTRATIVE REQUIREMENTS
1. Contractor shall be responsible for verification and coordination of sub-contractors work to secure compliance with the drawings and specifications.
2. Safety: In accordance with generally accepted construction practices, Contractor will be solely and completely responsible for conditions of job site, including safety of all persons and property during performance of this work. This requirement will apply continuously and not be limited to normal working hours.
3. The Architect shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by the Contractor.

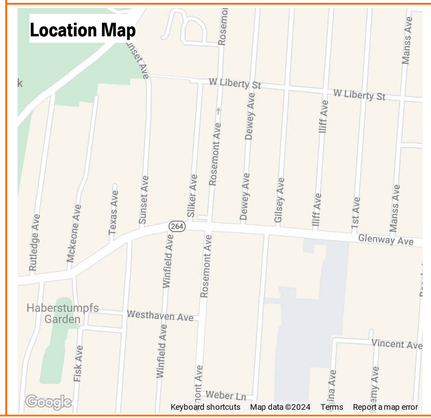
014000 – QUALITY REQUIREMENTS
1. The Contractor shall obtain and pay for all required permits and inspections unless indicated otherwise.
2. All work shall conform to the current building code, and all applicable laws, rules, regulations and ordinances or governing authorities. In case of conflict the most restrictive shall not limit their applicability.
3. The term "provide" when used shall mean "furnish and install" unless noted otherwise.
4. Provide blocking in walls, ceilings, etc. wherever items will be attached to these surfaces (i.e. toilet accessories, wall mounted door stops, fixtures, casework, handrails, A/V equipment, etc.).
5. Provide firestopping at all locations required by governing codes and authorities. Contact building inspector for inspection of all firestopping prior to installation of any material which may conceal the firestopping.
6. All steel exposed to the exterior shall be galvanized and painted, unless noted to be stainless steel or galvanized (unpainted).

015000 – TEMPORARY FACILITIES AND CONTROLS
1. Contractor is responsible for providing any temporary water, electrical service, heating and trash removal as needed to complete the work.
2. Contractor shall collect and remove all rubbish, surplus material, tools and scaffolding pertaining to his work on a regular basis throughout the construction in order to maintain an orderly working environment.
3. Temporarily brace structural components as required to maintain stability until complete and functioning as a designed unit.
4. Fumes and dust shall be controlled so as to prevent any harmful or undesirable effects in the surrounding area.

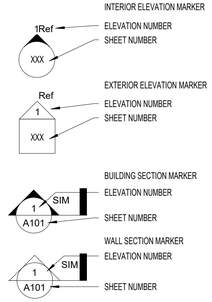
DIVISION 02 – EXISTING CONDITIONS

022000 – ASSESSMENT
1. Commencement of work by the Contractor or Trade shall signify the acceptance of the site conditions.
2. Area and dimensions: It shall be the responsibility of the Contractor(s) or Trade(s) to verify all area takeoffs and dimensions by making their own field measurements before starting work or ordering materials.
3. The Contractor shall verify at the job site, all dimensions and conditions shown on the drawings and within the Contract Documents and shall notify the Architect of any discrepancies, omissions and/or conflicts before proceeding with the project. All discrepancies shall be resolved before starting work or ordering materials.
4. The Contractor shall not scale drawings, written dimensions shall govern. Large scale drawings shall govern over small scale drawings. Field verify existing conditions where no dimensions exist.
5. All dimensions to existing construction are to the finished face. All dimensions to new construction are to face of concrete, face of masonry, face of stud or column centerline unless noted otherwise. Any dimension noted as 'CLEAR' or "CLR" is from finished face to finished face.
6. Contractor shall verify location of all existing utilities. Take precautions as necessary to protect them. Repair all utilities damaged during construction at no cost to the Owner.
7. Contractor shall replace topsoil and re-seed lawn areas disturbed by construction.
8. The removal and installation of mechanical, electrical, plumbing and architectural items may require the penetrations or removal of existing floors, ceilings, and walls. Patch and finish all existing surfaces that are disturbed during construction unless noted otherwise.

Location Map



SYMBOL LEGEND



ABBREVIATIONS

AFF	ALIGN FINISH FACE
A.F.F.	ABOVE FINISH FLOOR
C.L.	CENTERLINE
CLG.	CEILING
C.J.	CONTROL JOINT
E.J.	EXPANSION JOINT
EQ.	EQUAL
FE	FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET
FEC	FIRE EXTINGUISHER IN CABINET
TYP.	TYPICAL
O.C.	ON CENTER
U.N.O.	UNLESS NOTED OTHERWISE

Symbol Legend & Abbreviations

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson
Expiration Date:
No. ARC. 2118357
12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

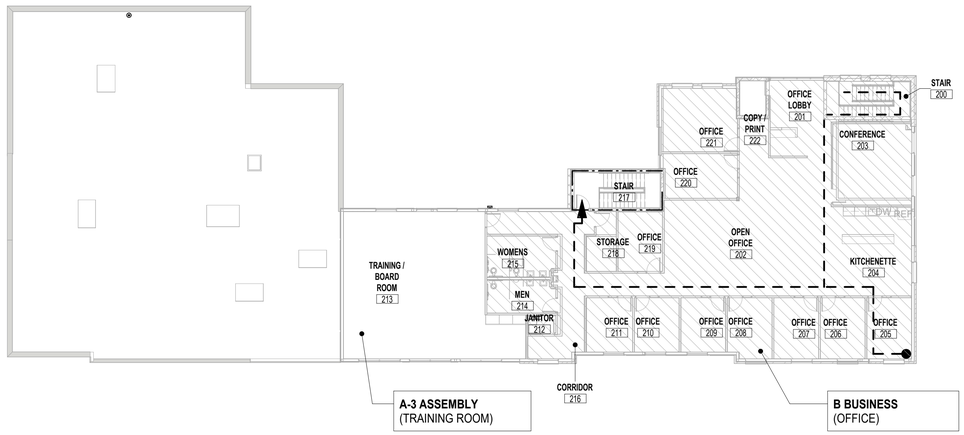
NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

COVER SHEET

21-052

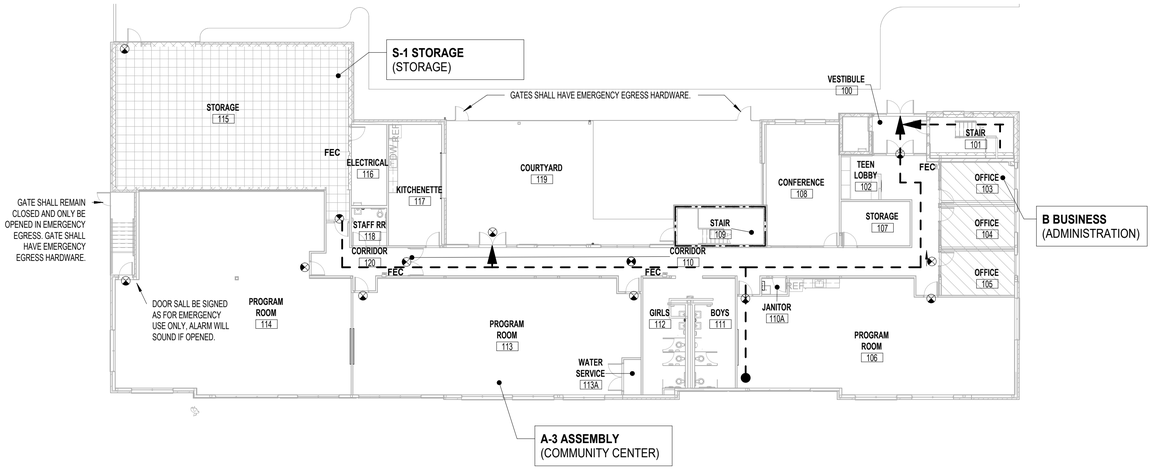
G000

PRINT DATE: 2/21/2024 4:45:28 PM



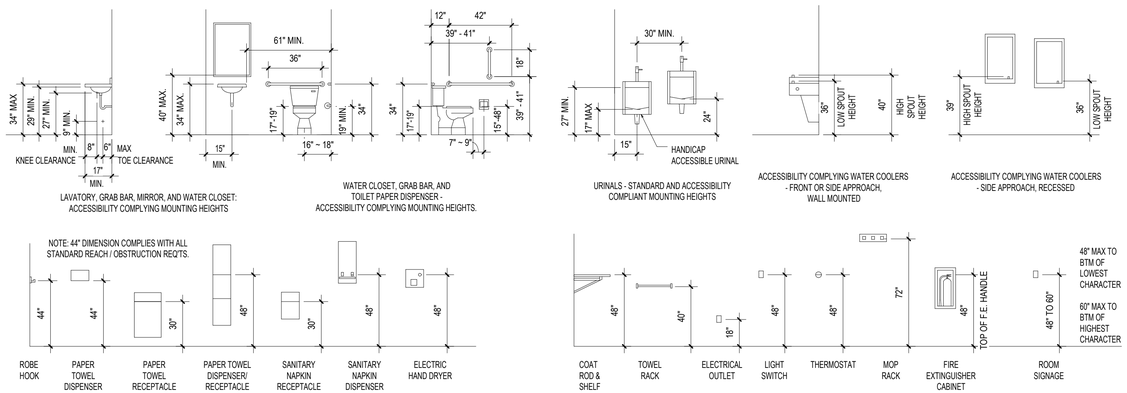
3 LIFE SAFETY PLAN - SECOND FLOOR

G100 SCALE: 1/16" = 1'-0"



2 LIFE SAFETY PLAN - FIRST FLOOR

G100 SCALE: 1/16" = 1'-0"



1 STANDARD ACCESSIBILITY MOUNTING HEIGHTS

G100 SCALE: 1/4" = 1'-0"

LIFE SAFETY PLAN LEGEND

FIRE RATING - 1 HOUR

NON RATED ASSEMBLY - PARTITION WALL

(X' - X") EGRESS PATH - (X' - X") EQUALS TRAVEL DISTANCE

MAXIMUM EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED = 250'

SEE ELECTRICAL PLANS FOR EXIT LIGHTS

Area Based Occupant Load - Second Floor (for Exiting Design...

#	Name	Area	Occ/SF	OLF GrossNet	Persons
200	STAIR	156 SF			
201	OFFICE LOBBY	278 SF	100 SF	Gross	3
202	OPEN OFFICE	1,007 SF	100 SF	Gross	11
203	CONFERENCE	317 SF	100 SF	Gross	4
204	KITCHENETTE	354 SF	200 SF	Gross	2
205	OFFICE	136 SF	100 SF	Gross	2
206	OFFICE	136 SF	100 SF	Gross	2
207	OFFICE	136 SF	100 SF	Gross	2
208	OFFICE	132 SF	100 SF	Gross	2
209	OFFICE	121 SF	100 SF	Gross	2
210	OFFICE	121 SF	100 SF	Gross	2
211	OFFICE	126 SF	100 SF	Gross	2
212	JANITOR	24 SF			
213	TRAINING / BOARD ROOM	1,130 SF	15 SF	Net	76
214	MEN	113 SF			
215	WOMENS	139 SF			
216	CORRIDOR	412 SF			
217	STAIR	155 SF			
218	STORAGE	78 SF	300 SF	Gross	1
219	OFFICE	132 SF	100 SF	Gross	2
220	OFFICE	164 SF	100 SF	Gross	2
221	OFFICE	238 SF	100 SF	Gross	3
222	COPY / PRINT	41 SF			

Area Based Occupant Load - First Floor (for Exiting Design Only)

#	Name	Area	Occ/SF	OLF GrossNet	Persons
100	VESTIBULE	99 SF			
101	STAIR	164 SF			
102	TEEN LOBBY	235 SF	100 SF	Gross	3
103	OFFICE	155 SF	100 SF	Gross	2
104	OFFICE	158 SF	100 SF	Gross	2
105	OFFICE	163 SF	100 SF	Gross	2
106	PROGRAM ROOM	1,435 SF	15 SF	Net	96
107	STORAGE	152 SF	300 SF	Gross	1
108	CONFERENCE	445 SF	100 SF	Gross	5
109	STAIR	155 SF			
110	CORRIDOR	901 SF			
110A	JANITOR	20 SF			
111	BOYS	200 SF			
112	GIRLS	224 SF			
113	PROGRAM ROOM	1,601 SF	15 SF	Net	107
113A	WATER SERVICE	31 SF	300 SF	Gross	1
114	PROGRAM ROOM	2,131 SF	15 SF	Net	143
115	STORAGE	1,660 SF	300 SF	Gross	6
116	ELECTRICAL	142 SF	300 SF	Gross	1
117	KITCHENETTE	321 SF	100 SF	Gross	4
118	STAFF RR	66 SF			
119	COURTYARD	1,787 SF			
120	CORRIDOR	178 SF			

PLUMBING FIXTURE REQUIREMENTS

BUILDING OCCUPANTS:	FIRST FLOOR				SECOND FLOOR		
	114 OCCUPANTS				103 OCCUPANTS		
		M	F	U		M	F
		57	57			52	52
Water Closets:							
A-3 1: 125M 1: 65F	48 M / 48 F	0.38	.738		38 M / 38 F	0.30	.58
S-1 1: 100M 1: 100F	3 M / 3 F	.03	.03		-	-	-
B 1: 50M 1: 50F	6 M / 6 F	0.12	0.12		14 M / 14 F	0.28	0.28
Water Closets	**Required**	1	5		**Required**	1	1
	Provided	2	8	1	**Provided**	1	2
Urinals	**Provided**	1	-		**Provided**	1	-
	TOTAL	3	3	1	**TOTAL**	2	2
Lavatories:							
A-3 1: 200M 1: 200F	48 M / 48 F	0.24	0.24		38 M / 38 F	0.19	0.19
S-1 1: 100M 1: 100F	3 M / 3 F	0.03	0.03		-	-	-
B 1: 80M 1: 80F	6 M / 6 F	0.75	0.75		14 M / 14 F	0.18	0.18
Lavatories	**Required**	1	1		**Required**	1	1
	Provided	2	2	1	**Provided**	2	2
Showers: Not Required by Code							
Drinking Fountains:							
A-3 1: 500 RATIO	96 OCCUPANTS	0.19			76 OCCUPANTS	0.15	
S-1 1: 1000 RATIO	6 OCCUPANTS	0.006			-	-	
B 1: 100 RATIO	12 OCCUPANTS	0.12			27 OCCUPANTS	0.27	
Drinking Fountains	**Required**	1			**Required**	1	
	Provided	2*			**Provided**	2*	
Service Sinks:	**Required**	1			**Required**	1	
	Provided	2			**Provided**	1	

*(2) FOUNTAINS AND BOTTLE FILLERS PROVIDED
M = MALE
F = FEMALE
U = UNISEX

Code Notes

APPLICABLE CODES

Building: Cincinnati Building Code; 2017 Ohio Building Code
Fire Safety: Ohio Fire Code
Mechanical: 2017 Ohio Mechanical Code
Electric: 2017 National Electric Code
Plumbing: Ohio Plumbing Code
Accessibility: 2017 Ohio Building Code & 2009 ICC A117.1
Zoning: Cincinnati Zoning Code

BUILDING DEPARTMENT: City of Cincinnati, Ohio

Chapter 3
Section 302: Classification: Non-Separated Mixed Use:
A-3 Assembly (Community Center)
B Business (First and Second floor Office areas)
S-1 Storage - (Storage 115)

Chapter 5
Section 504: Building Height: Table 504.3 Allowable Height = 75'
Proposed Height: 31' - 0"

Section 504: Building Number of Stories: Table 504.4 Stories above Grade Plane
Allowable = 3 Stories Proposed = 2 Stories

Section 506: Building Area: Table 506.2 Allowable area per floor
Allowable = 28,500 SF (A-3) Proposed:
First Floor = 11,100 SF
Second Floor = 6,120 SF

Chapter 6
Section 601 Construction Type: Type IIB - Noncombustible
Fire Resistance Rating Requirements for Building Elements: Table 601

Primary Structural Frame:	0 Hours
Bearing Walls Exterior:	0 Hours
Bearing Walls Interior:	0 Hours
Nonbearing Exterior Walls:	0 Hours
Nonbearing Interior Walls:	0 Hours
Floor Construction:	0 Hours
Roof Construction:	0 Hours

Chapter 9
Section 903 Fire Suppression: NFPA 13 Fire Suppression will be provided throughout the building.
Section 907 Fire Alarm and Detection Systems: A fire alarm system will be provided throughout the building

Chapter 10
Section 1004 Occupant Load

Design Occupant Load (for egress design)
First floor

Assembly Unconcentrated (tables and chairs)			
106 Program Room	1435 net sf / 15 sf	=	96
113 Program Room	1601 net sf / 15 sf	=	107
114 Program Room	1669 net sf / 15 sf	=	143
Accessory storage areas, mechanical equipment room			
107 Storage	152 gross sf / 300 sf	=	1
113 Water Service	31 gross sf / 300 sf	=	1
115 Storage	1669 gross sf / 300 sf	=	6
116 Electrical	142 gross sf / 300 sf	=	1
117 Kitchenette	321 gross sf / 100 sf	=	4
Business Areas			
102 Teen Lobby	236 gross sf / 100 sf	=	3
103 Office	157 gross sf / 100 sf	=	2
104 Office	158 gross sf / 100 sf	=	2
105 Office	168 gross sf / 100 sf	=	2
108 Conference	446 gross sf / 100 sf	=	5
Total First Floor occupant load		=	*373*

Second floor

Assembly Unconcentrated (tables and chairs)			
213 Training / Board Room	1608 net sf / 15 sf	=	76
Accessory storage areas, mechanical equipment room			
218 Storage	78 gross sf / 300 sf	=	1
212 Janitor	24 gross sf / 300 sf	=	1
Business Areas			
201 Office Lobby	277 gross sf / 100 sf	=	3
202 Open Office	1008 gross sf / 100 sf	=	11
203 Conference	317 gross sf / 100 sf	=	4
204 Kitchenette	354 gross sf / 100 sf	=	4
205 Office	136 gross sf / 100 sf	=	2
206 Office	136 gross sf / 100 sf	=	2
207 Office	136 gross sf / 100 sf	=	2
208 Office	132 gross sf / 100 sf	=	2
209 Office	121gross sf / 100 sf	=	2
210 Office	121 gross sf / 100 sf	=	2
211 Office	126 gross sf / 100 sf	=	2
219 Office	132 gross sf / 100 sf	=	2
220 Office	164 gross sf / 100 sf	=	2
221 Office	238 gross sf / 100 sf	=	2
Total First Floor occupant load		=	*119*
Total occupant load		=	*492*

Actual Occupancy (for HVAC & plumbing design)

First Floor Occupancy
First floor actual occupancy is based on occupancy of the program rooms, storage, and business areas. Children are either in their respective program room or in accessory spaces.

A-3 Program Rooms is based on 50 s.f. / person

106 Program Room	1435 net sf / 50 sf	=	29
113 Program Room	1601 net sf / 50 sf	=	33
114 Program Room	1669 net sf / 50 sf	=	34
	Total =		96
S-1 Storage	1669 gross sf / 300 sf	=	6
B Business Areas	1165 gross sf / 100 sf	=	12
Total First Floor occupant load		=	*114*

Second floor Occupany

A-3 Assembly Unconcentrated (tables and chairs)	1608 net sf / 15 sf	=	76
B Business Areas	2727 gross sf / 100 sf	=	27
Total First Floor occupant load		=	*103*
Total occupant load		=	*217*

Section 1005 Means of Egress Sizing: nch / Occupant per 1005.3.1, Exception 1.
All other Egress Components: 0.15 inch / Occupant per 1005.3.2, Exception 1.

Section 1017 Exit Access Travel Distance: Table 1017.2 Exit Access Travel Distance
Allowable = 250'-0" (with Sprinkler System)

Section 1023 Interior Exit Stairways and Ramps: Stair Enclosures: 1 Hour

EMBOSS
EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC 2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

CODE DATA SHEET

21-052

G100

PRINT DATE: 2/21/2024 4:45:30 PM

PRICE HILL TEEN CENTER & OFFICES FOR BOYS & GIRLS CLUB

CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

GENERAL CONSTRUCTION NOTES

OVERALL:

APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION, THE EXACT LOCATION OF UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS.

ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH "CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION".

UNLESS OTHERWISE NOTED ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION".

THE ENGINEER/SURVEYOR DOES NOT ASSUME ANY LIABILITY FOR THE LOCATION OF UTILITIES, INCLUDING INDIVIDUAL SERVICE LINES & PRIVATE MAINS NOT SHOWN ON PUBLIC RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXACTLY LOCATING AND PROTECTING ALL UTILITIES, BOTH ABOVE AND BELOW GROUND, THAT EXIST IN THE WORK AREA AND WHICH MAY COME IN CONFLICT WITH HIS OPERATIONS. ANY DAMAGE TO UTILITIES WHICH HAVE BEEN ACCURATELY LOCATED, WHICH IS CAUSED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ASSISTANCE IN LOCATING UNDERGROUND UTILITIES CAN BE OBTAINED BY CONTACTING THE UTILITY COMPANIES AT THE LOCATIONS LISTED ON THIS PAGE. IF A DISCREPANCY IS FOUND TO EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

EACH INSTALLING CONTRACTOR IS RESPONSIBLE FOR THEIR OWN COORDINATION OF INSTALLATION OF THEIR SYSTEMS UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY. ABERCROMBIE & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS & METHODS OF CONSTRUCTION ON DRAWINGS.

THE CONTRACTOR SHALL OBTAIN OR VERIFY THAT ALL PERMITS ARE OBTAINED.

THE CONTRACTOR SHALL VERIFY EXISTING SITE INFORMATION AND REQUIRED EARTHWORK.

A GEOTECHNICAL INSPECTION IS RECOMMENDED AND ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED.

ALL PROPOSED SPOT ELEVATIONS ARE TO FINISHED GRADE.

TYPICAL PARKING SPACES ARE 9' WIDE AND 18' LONG, UNLESS OTHERWISE NOTED.

PAVEMENT MARKINGS TO BE HIGH SOLIDS, WATER BASED ACRYLIC PAINT CONTAINING ULTRAVIOLET RESISTANT PIGMENTS, LEAD & CHROMATE FREE, READY MIXED, COMPLYING WITH FTS TT-PP-1952 WITH A DRYING TIME OF LESS THAN 45 MINUTES. PARKING & LANE PARKERS STRIPING TO BE WHITE, HANDICAP SPACES TO BE BLUE, PEDESTRIAN CROSSING LANES & NO PARKING ZONES TO BE YELLOW. APPLY PAINT WITH MECHANICAL EQUIPMENT, AT MANUFACTURER'S RECOMMENDATIONS & AT A MINIMUM WET FILM THICKNESS OF 15 MILS.

UTILITY SPECIFICATION:

ALL STORM SEWER TO BE PRIVATE, MAINTAINED BY THE OWNER AND BE CORRUGATED POLYETHYLENE SMOOTH LINED PIPE, CONFORMING TO ODOT ITEM 707.33 OR PVC CORRUGATED SMOOTH INTERIOR PIPE, CONFORMING TO ODOT ITEM 707.42 AND INSTALLED PER ODOT ITEM 603.

STEPS SHALL BE REQUIRED IN ALL CATCH BASINS WHERE THE DEPTH EXCEEDS FOUR (4) FEET AND SHALL MEET THE REQUIREMENTS OF THE STATE OF OHIO STANDARD CONSTRUCTION DRAWING MH-1.

ALL CATCH BASINS, INLETS & MANHOLES IN PAVED AREAS SHALL BE SLOPED ACCORDINGLY WITH FINAL PAVEMENT SURFACE PER GRADING PLAN.

ALL DOWNSPOUTS ARE TO TIE IN TO THE STORM SEWER SYSTEM.

UNDERDRAINS TO BE INSTALLED AT LOW POINTS IN PAVEMENT PER DETAIL.

DOMESTIC AND IRRIGATION WATER SERVICE TO BE TYPE "K" COPPER, UNLESS OTHERWISE NOTED. FIRE LINE TO BE DUCTILE IRON CLASS 53 (O.D.O.T. ITEM 748.01) OR PVC AWWA C900, (ODOT ITEM 748.02) UNLESS OTHERWISE NOTED.

ALL SANITARY SEWER PIPE SHALL BE P.V.C., SDR 35, ASTM D-3034.

UTILITY TRENCH BACKFILL SHALL BE PER THE DETAILS SHOWN ON THE PLANS.

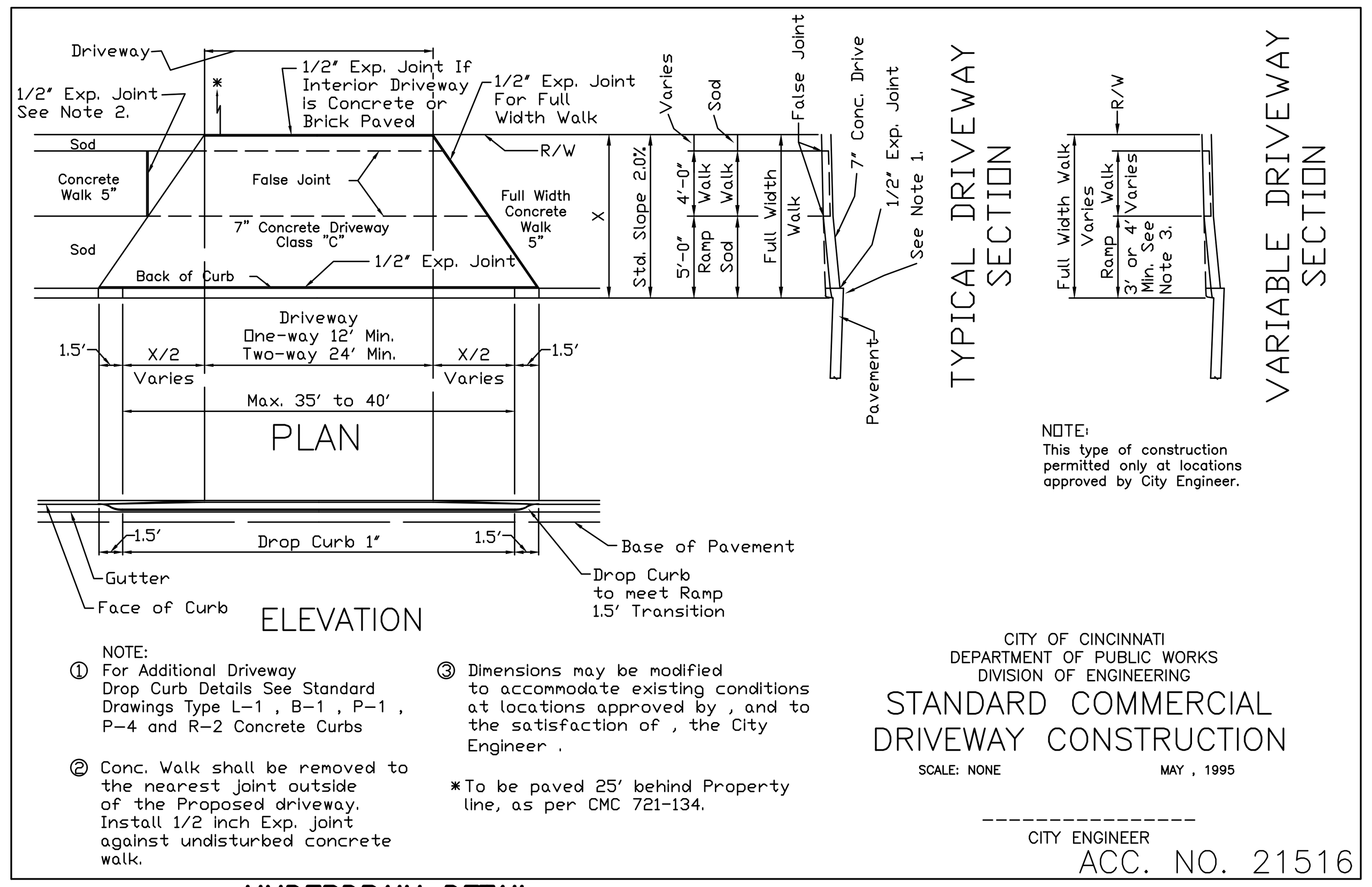
EROSION CONTROL:

ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY STRIPPING OF VEGETATION OR EXCAVATION.

SILT FENCES USED FOR EROSION AND SEDIMENT CONTROL ARE TO BE ENTRENCHED AT LEAST 6" INCHES BELOW GRADE, AND FOLDED ACCORDING TO THE DETAIL AS SHOWN.

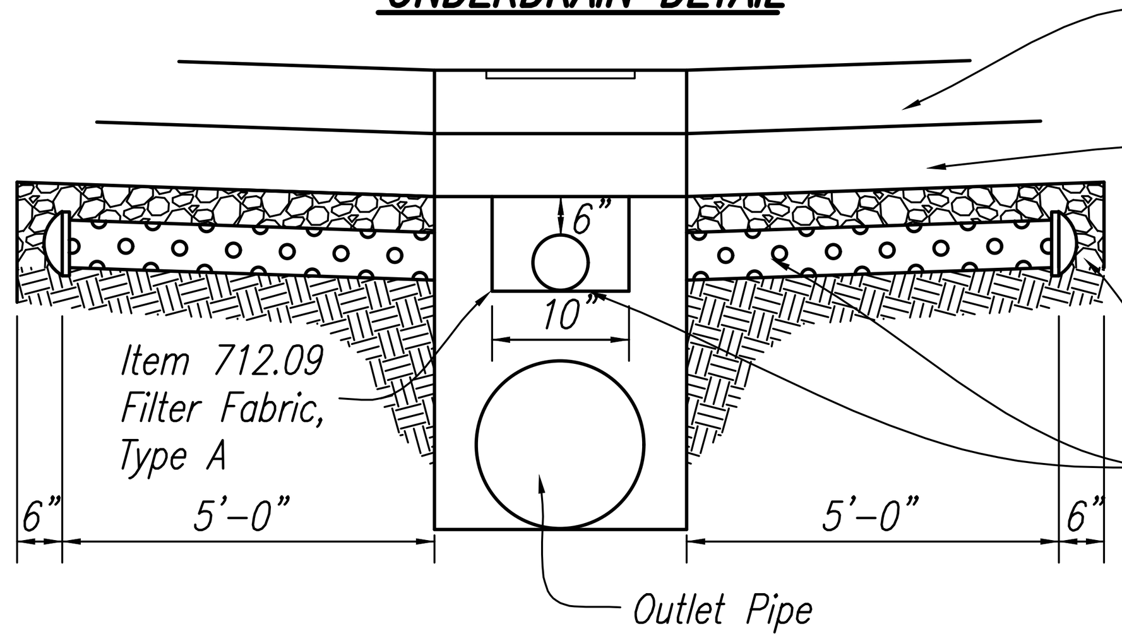
ALL EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT PRODUCING GREATER THAN 1/2 INCH OF RAIN IN A 24 HOUR PERIOD. ALL EROSION CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION BY REMOVING COMPACTED SILT AND SEDIMENT, AND REDISTRIBUTING IT AS IS APPROPRIATE. SEEDING AND MULCHING SHALL BE APPLIED IN ACCORDANCE WITH OHIO RAINWATER AND LAND DEVELOPMENT MANUAL TO ALL DISTURBED AREAS WITHIN 7 DAYS IF THE AREA IS AT FINAL GRADE OR IS TO REMAIN DORMANT FOR MORE THAN 14 DAYS.

ALL CATCH BASINS SHALL HAVE SEDIMENT INLET PROTECTION METHODS INSTALLED DURING CONSTRUCTION, USING THE DETAILS SHOWN ON THE PLAN.



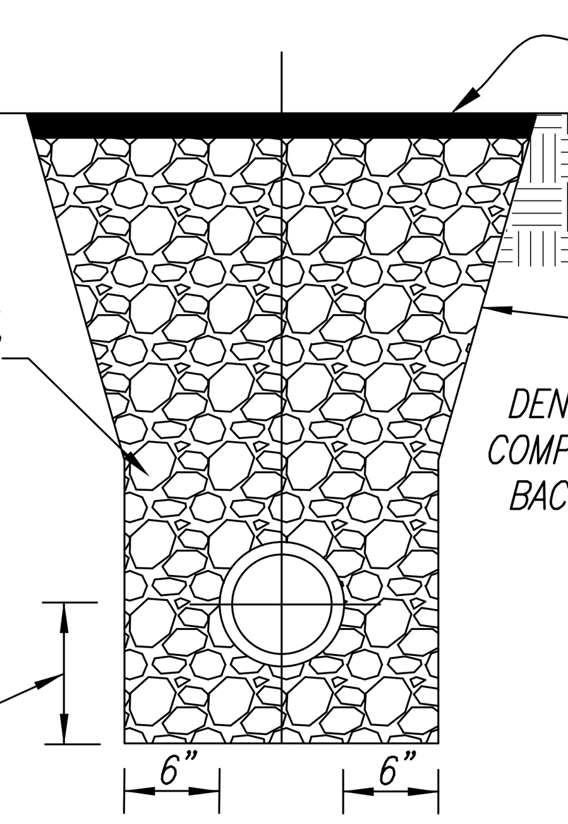
Driveway
1/2" Exp. Joint See Note 2.
1/2" Exp. Joint If Interior Driveway is Concrete or Brick Paved
1/2" Exp. Joint For Full Width Walk
R/W
Sod
Concrete Walk 5'
False Joint
Full Width Concrete Walk 5'
7" Concrete Driveway Class "C"
1/2" Exp. Joint
Back of Curb
Driveway One-way 12' Min. Two-way 24' Min.
X/2
Varies
Max. 35' to 40'
PLAN
Drop Curb 1"
Base of Pavement
Gutter
Face of Curb
Drop Curb to meet Ramp 1.5' Transition
ELEVATION
TYPICAL DRIVEWAY SECTION
VARIABLE DRIVEWAY SECTION
NOTE: This type of construction permitted only at locations approved by City Engineer.
NOTE:
① For Additional Driveway Drop Curb Details See Standard Drawings Type L-1 , B-1 , P-1 , P-4 and R-2 Concrete Curbs
② Conc. Walk shall be removed to the nearest joint outside of the Proposed driveway. Install 1/2 inch Exp. Joint against undisturbed concrete walk.
③ Dimensions may be modified to accommodate existing conditions at locations approved by , and to the satisfaction of , the City Engineer .
*To be paved 25' behind Property line, as per CMC 721-134.
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
STANDARD COMMERCIAL DRIVEWAY CONSTRUCTION
SCALE: NONE
MAY , 1995
CITY ENGINEER
ACC. NO. 21516

UNDERDRAIN DETAIL



Asphalt Courses (See Pavement Detail)
Item 304 Aggregate Base
Granular Filter Material (No. 57 Gravel) As per ODOT Item 605.03
Item 712.09 Filter Fabric, Type A
Item 707.41 – 4" PVC Perforated Pipe W/ Filter Fabric Sock, And End Cap per Item 712.09, Type A
Outlet Pipe
6"
10"
5'-0"

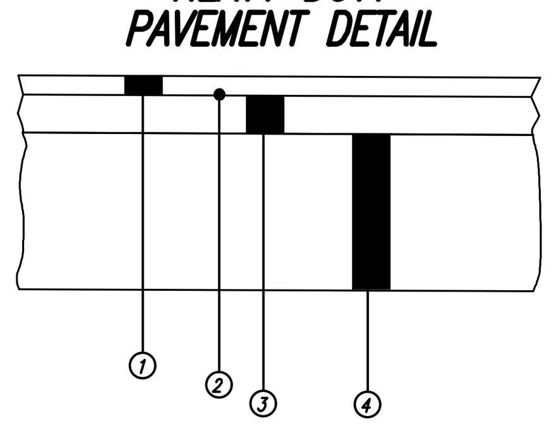
STANDARD UTILITY TRENCH FOR PIPES UNDER PAVEMENT



PAVEMENT LINE
CLASS I, II OR III BACKFILL WITH ANGULAR CRUSHED STONE, COMPACTED TO 98% STANDARD DENSITY. NO ROUNDED AGGREGATE PERMITTED
TRENCH SIDES PER OSHA REQUIREMENTS
DENSELY COMPACTED BACKFILL
6" MIN. BEDDING AROUND PIPE. MIDDLE 1/3 BENEATH PIPE INVERT SHALL BE LOOSELY PLACED.
6"

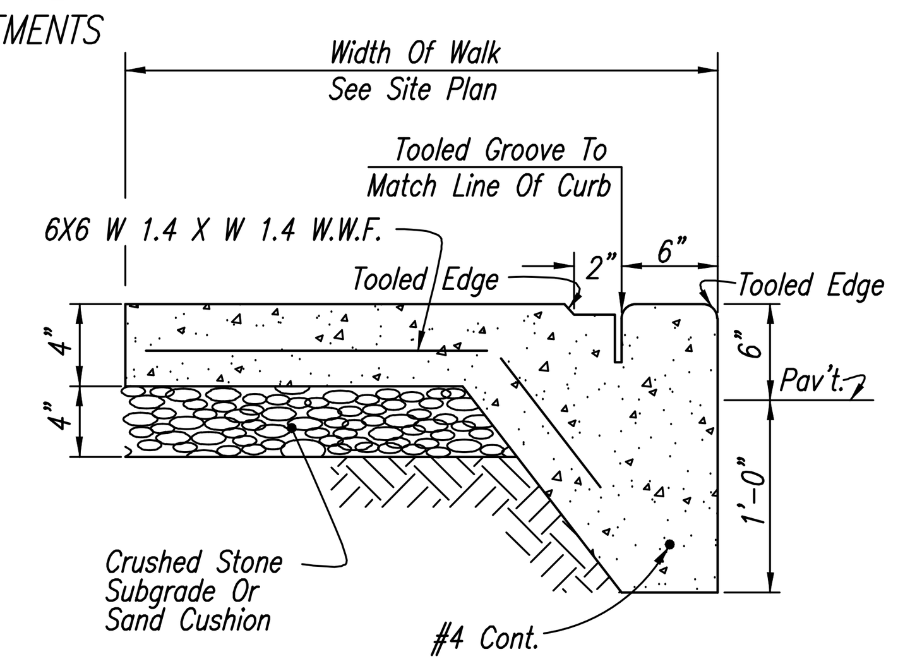
REFER TO O.D.O.T ITEM 603.04 FOR ADDITIONAL BEDDING INFORMATION
REFER TO O.D.O.T ITEM 603.08 FOR ADDITIONAL BACKFILLING INFORMATION
REFER TO PIPE MANUFACTURER SPECIFICATIONS FOR DETENTION PIPING

HEAVY DUTY PAVEMENT DETAIL

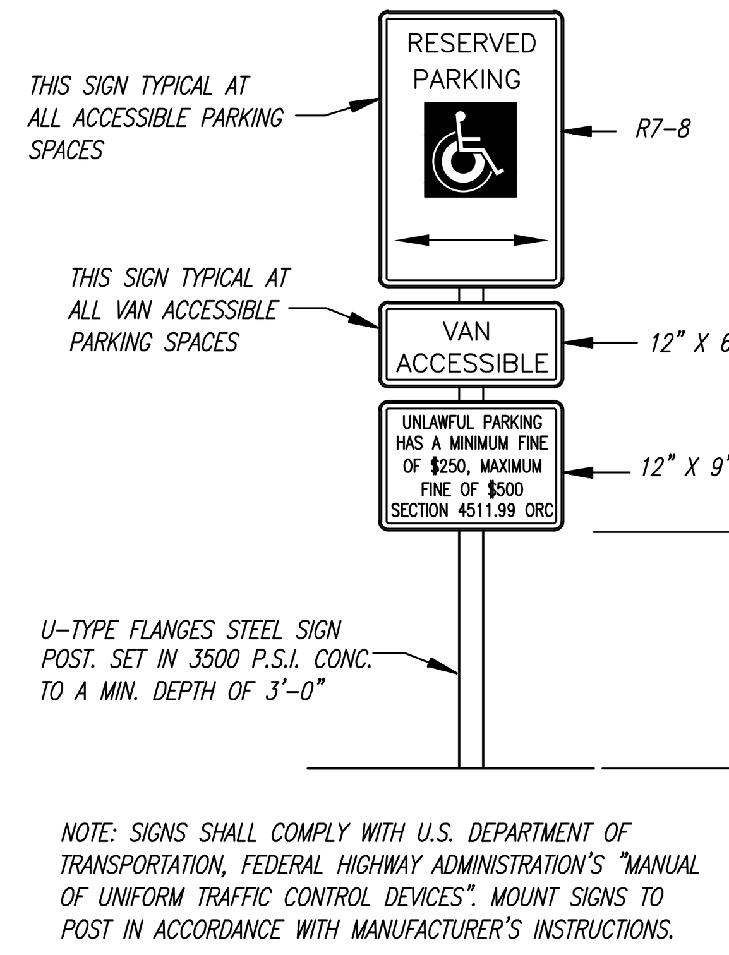


① Item 448 1 1/2" Asphalt Concrete Surface Course, Type 1 (PG 64-22)
② Item 407 Tack Coat
③ Item 448 3" Asphalt Concrete Intermediate Course (1 1/2" Courses) Type 2 (PG 64-22)
④ Item 304 8" Aggregate Base (4" Courses)

SIDEWALK DETAIL



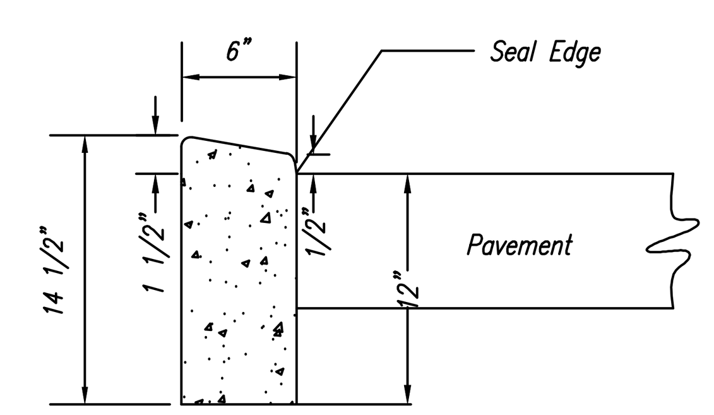
HANDICAP ACCESSIBLE PARKING SIGN



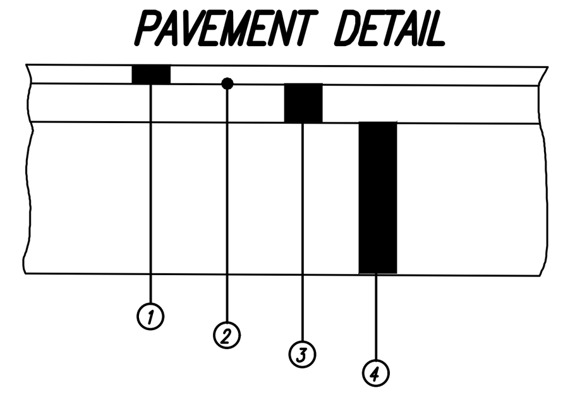
THIS SIGN TYPICAL AT ALL ACCESSIBLE PARKING SPACES
RESERVED PARKING
R7-8
THIS SIGN TYPICAL AT ALL VAN ACCESSIBLE PARKING SPACES
VAN ACCESSIBLE
12" X 6"
UNLAWFUL PARKING HAS A MINIMUM FINE OF $250, MAXIMUM FINE OF $500 SECTION 4511.99 ORC
12" X 9"
U-TYPE FLANGES STEEL SIGN POST. SET IN 3500 P.S.I. CONC. TO A MIN. DEPTH OF 3'-0"
5'-0"

NOTE: SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

DEPRESSED CURB DETAIL

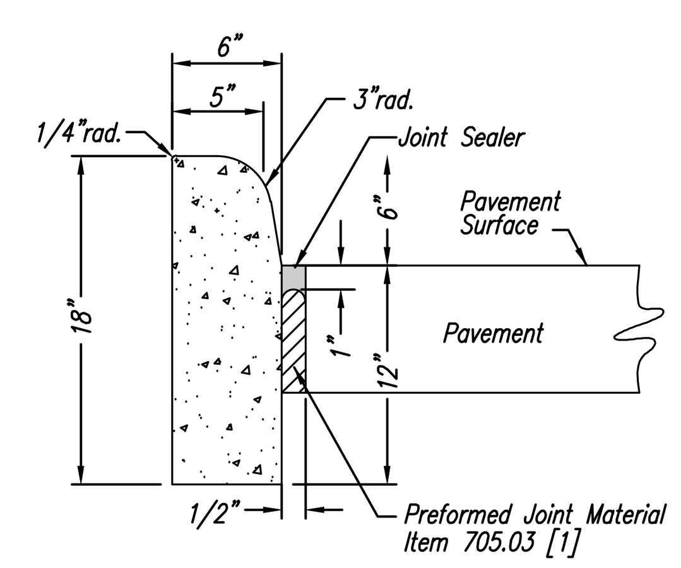


LIGHT DUTY PAVEMENT DETAIL



① Item 448 1 1/2" Asphalt Concrete Surface Course Type 1 (PG-64-22)
② Item 407 Tack Coat
③ Item 448 1 1/2" Asphalt Concrete Intermediate Course Type 2 (PG-64-22)
④ Item 304 8" Aggregate Base (4" Courses)

TYPE 6 CONCRETE CURB



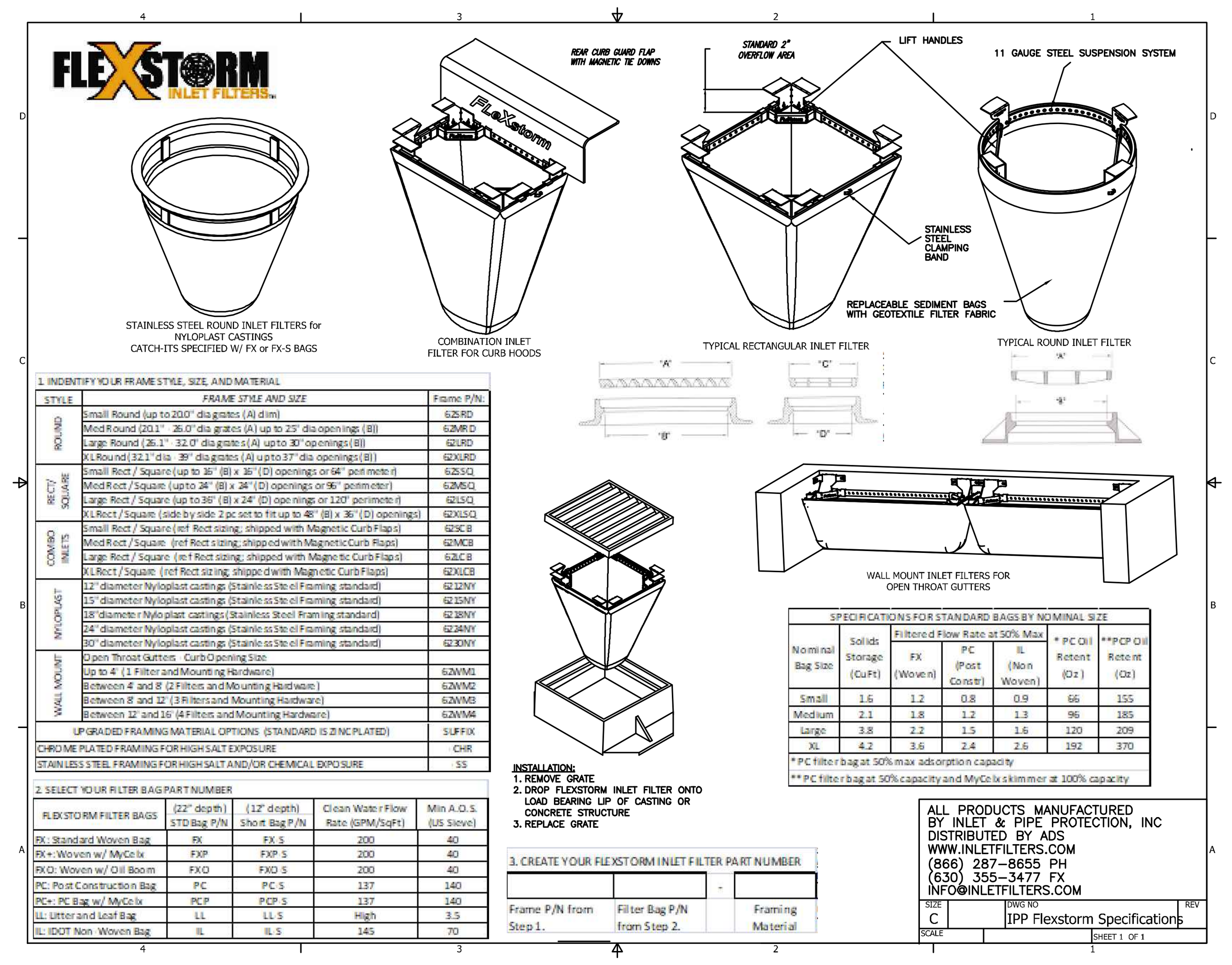
NOTES

Joints: 1" Expansion Joints Shall Extend Up To The Top Of The Top Of The Curb And Shall Be Constructed In The Curb And Gutter Section In Such A Manner That The Joint Seal Will Extend The Full Width Of The Gutter And Into The Curb Face A Sufficient Distance To Seal The Joint To An Elevation Of At Least 2" Above The Flow Line Of The Gutter. Dowel Bars Shall Be Used In The Curb And Gutter Section At Expansion Joints And To The Surface Of The Pavement. Transverse Expansion Joint Material Shall Meet The Requirements Of Item 705.03.

[1] Expansion Joint Material And Joint Sealer Are Not Required For The Portion Of The Curb That Is Adjacent To A Flexible Pavement Type. Both Materials Are Required, As Detailed, For The Full Height Of Rigid Pavement And Concrete Bases.

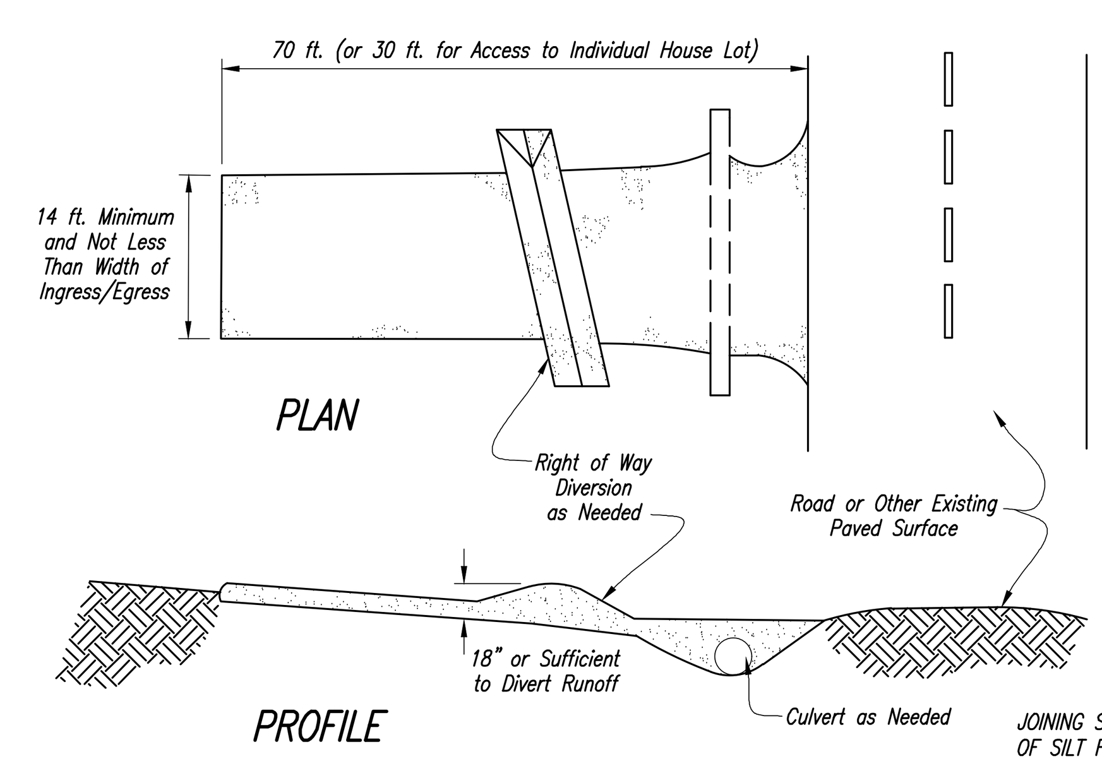
FLUSH CONCRETE SIDEWALK DETAIL

One Course Portland Cement Concrete Sidewalks, Class "C" Concrete, Four Inches (4") In Thickness Shall Be Constructed Where Shown On The Plans Or Typical Sections. One Half Inch (½") Full Depth Expansion Joints Shall Be Installed At Intervals Not To Exceed One Hundred Feet (100'). All Sidewalks, Including Curb Ramps, Shall Connect To The Pavement Or Curb With One-Half (½") Full Depth Expansion Joint Material Between The Walk And Curb.



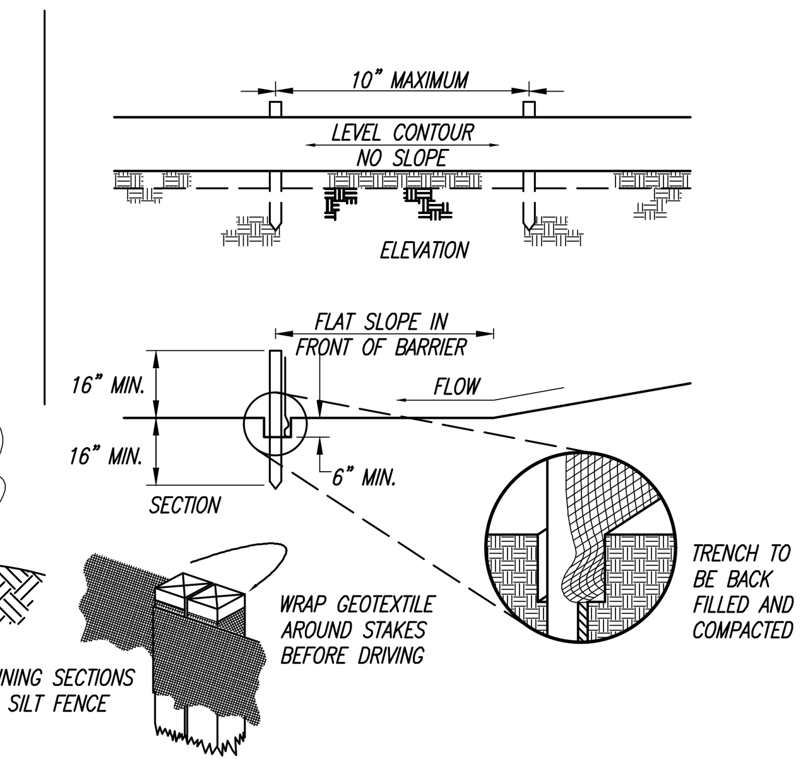
FLEXSTORM
INLET FILTERS
STAINLESS STEEL ROUND INLET FILTERS
COMBINATION INLET FILTER FOR CURB HOODS
TYPICAL RECTANGULAR INLET FILTER
TYPICAL ROUND INLET FILTER
WALL MOUNT INLET FILTERS FOR OPEN THROAT GUTTERS
ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC
WWW.INLETFILTERS.COM
INFO@INLETFILTERS.COM
IPP Flexstorm Specifications

CONSTRUCTION ENTRANCE DETAIL



SEE THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL, CURRENT EDITION, FOR CONSTRUCTION ENTRANCE SPECIFICATIONS.

SPECIFICATIONS FOR SILT FENCE



SEE THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL, CURRENT EDITION, FOR SILT FENCE SPECIFICATIONS.

OWNER
BOYS & GIRLS CLUBS OF GREATER CINCINNATI
600 DALTON AVE.
CINCINNATI, OHIO 45203

OWNER
JS HELD
3950 VIRGINIA AVE.
CINCINNATI, OHIO 45227

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com
23-0016\DSGN\CA-STPL

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764

811 Know what's below. Call before you dig.

emboss
EmbossDesign.com 906 Monmouth Street,
(859)431-8612 Newport, KY 41071

STATE OF OHIO
BENJAMIN POOLE
88431
REGISTERED PROFESSIONAL ENGINEER
1/30/24

STATE OF OHIO
CRAIG T. ABERCROMBIE
6377
REGISTERED PROFESSIONAL SURVEYOR
1/30/24

PRICE HILL TEEN CENTER & OFFICES FOR BOY AND GIRLS CLUB

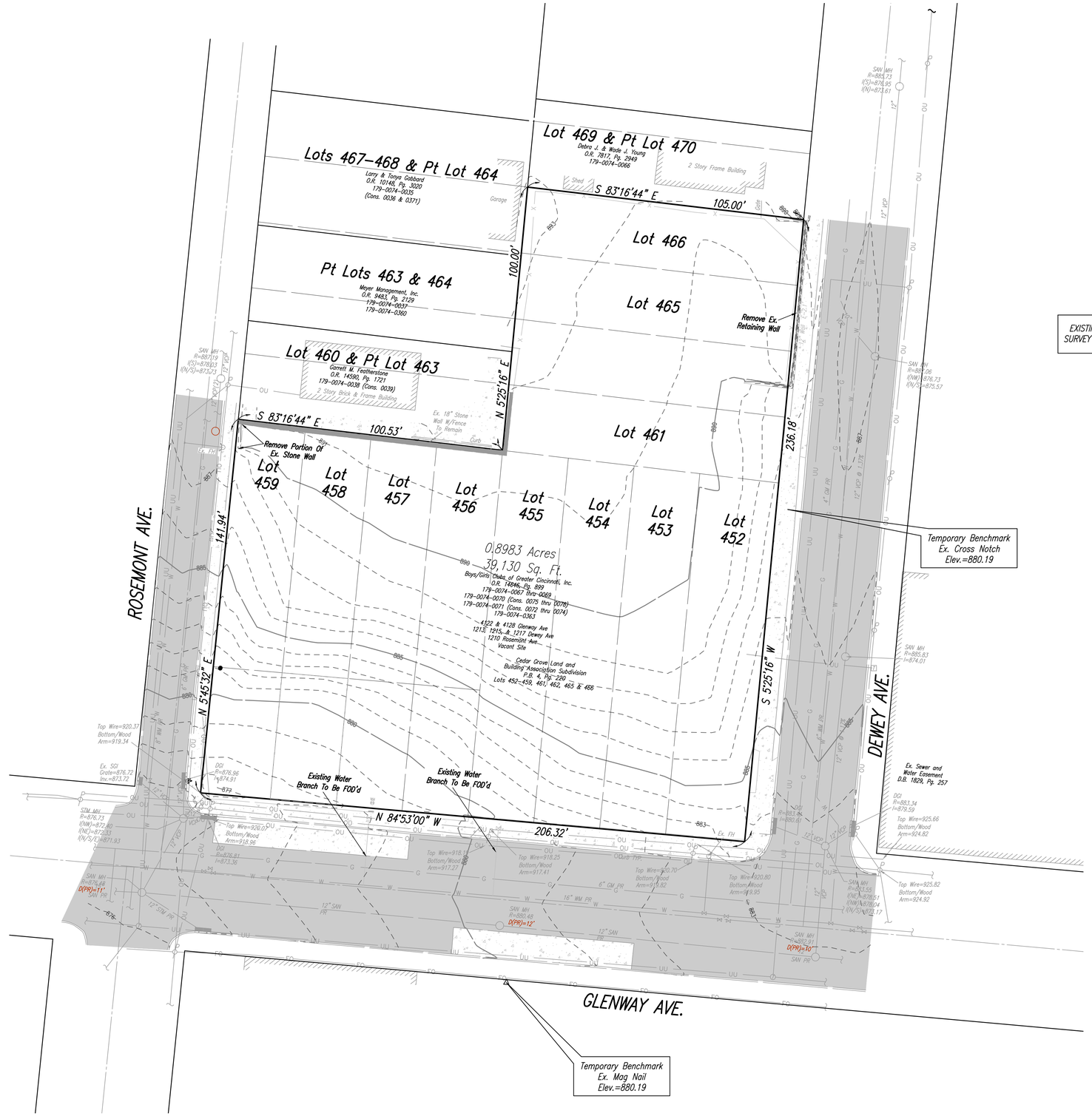
1205 Dewey Avenue
Cincinnati, Ohio, 45205

NO.	DESCRIPTION	DATE
	DD SET	11/13/23
1	PERMIT SET	01/08/24
2	BIDDING DOCUMENTS	02/12/24

SITE TITLE SHEET

23–0016

C100



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

EXISTING CONDITIONS BASED ON ALTA/NSPS LAND TITLE SURVEY PROVIDED BY BERDING SURVEYING DATED 3–1–23.

LEGEND

- POWER POLE
- GAS VALVE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- TELEPHONE BOX
- TELEPHONE MANHOLE
- SANITARY MANHOLE
- SANITARY MANHOLE PER RECORD
- STORM MANHOLE
- DOUBLE GRATE INLET
- SINGLE GRATE INLET
- SIGN
- OHU — OVERHEAD UTILITIES
- SANITARY SEWER
- SANITARY SEWER PER RECORD
- STORM SEWER
- STORM SEWER PER RECORD
- G — GAS PER RECORD
- W — WATER PER RECORD
- T — UNDERGROUND TELEPHONE PER RECORD
- COM — FIBER OPTIC PER RECORD
- X — FENCE
- BUILDING EXTENTS
- CONCRETE
- ASPHALT
- WALL

STATE OF OHIO
BENJAMIN POOLE
89431
REGISTERED
PROFESSIONAL ENGINEER
1/30/24

OHIO Utilities Protection Service
Call before You Dig
1–800–362–2764
811 Know what's below. Call before you dig.

Nick Keyes
Vice President, Project Support Services
Construction Advisory
513-356-5691
Nkeyes@jsheld.com

EmbossDesign.com 906 Monmouth Street,
(859)431–8612 Newport, KY 41071

STATE OF OHIO
CRAIG T. ABERCROMBIE
8377
REGISTERED
PROFESSIONAL SURVEYOR
1/30/24

PRICE HILL TEEN CENTER & OFFICES FOR BOY AND GIRLS CLUB

1205 Dewey Avenue
Cincinnati, Ohio,
45205

NO.	DESCRIPTION	DATE
	DD SET	11/13/23
1	PERMIT SET	01/08/24
2	BIDDING DOCUMENTS	02/12/24

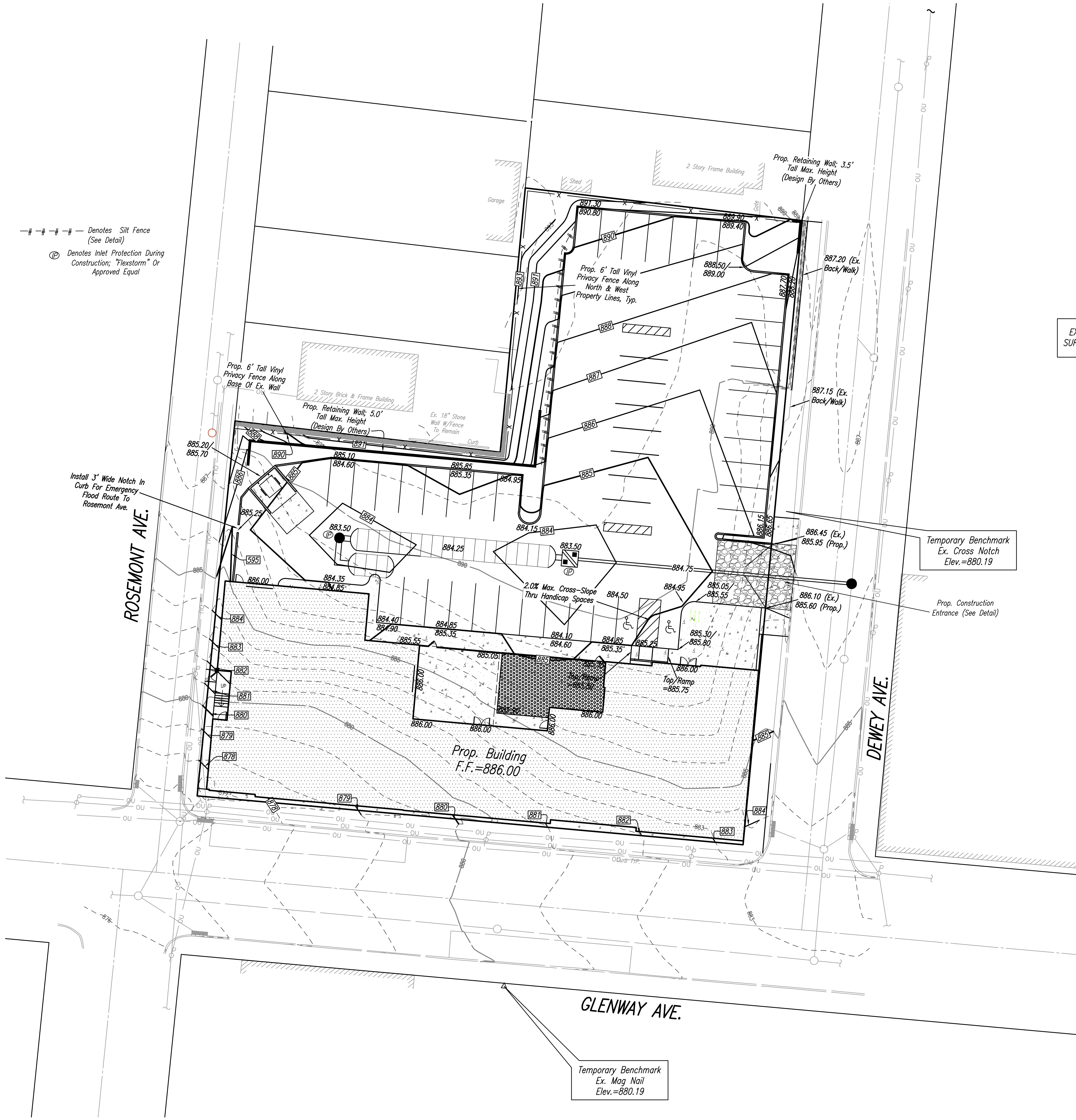
EXISTING CONDITIONS/ DEMO PLAN

23–0016

C200

—# —# —# —# — Denotes Silt Fence (See Detail)

Ⓘ Denotes Inlet Protection During Construction; "Flexstorm" Or Approved Equal



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

EXISTING CONDITIONS BASED ON ALTA/NSPS LAND TITLE SURVEY PROVIDED BY BERDING SURVEYING DATED 3-1-23.

LEGEND

Symbol	Description
	POWER POLE
	GAS VALVE
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	TELEPHONE BOX
	TELEPHONE MANHOLE
	SANITARY MANHOLE
	SANITARY MANHOLE PER RECORD
	STORM MANHOLE
	DOUBLE GRATE INLET
	SINGLE GRATE INLET
	SIGN
OHU	OVERHEAD UTILITIES
	SANITARY SEWER
	SANITARY SEWER PER RECORD
	STORM SEWER
	STORM SEWER PER RECORD
G	GAS PER RECORD
W	WATER PER RECORD
T	UNDERGROUND TELEPHONE PER RECORD
COM	FIBER OPTIC PER RECORD
X	FENCE
	BUILDING EXTENTS
	CONCRETE
	ASPHALT
	WALL

STATE OF OHIO BENJAMIN POOLE 88431 REGISTERED PROFESSIONAL ENGINEER 1/30/24

EmbossDesign.com 906 Monmouth Street,
(859)431-8612 Newport, KY 41071

STATE OF OHIO CRAIG T. ABERCROMBIE 8377 REGISTERED PROFESSIONAL SURVEYOR 1/30/24

PRICE HILL TEEN CENTER & OFFICES FOR BOY AND GIRLS CLUB

1205 Dewey Avenue
Cincinnati, Ohio,
45205

NO.	DESCRIPTION	DATE
	DD SET	11/13/23
1	PERMIT SET	01/08/24
2	BIDDING DOCUMENTS	02/12/24

GRADING PLAN

23-0016

C300

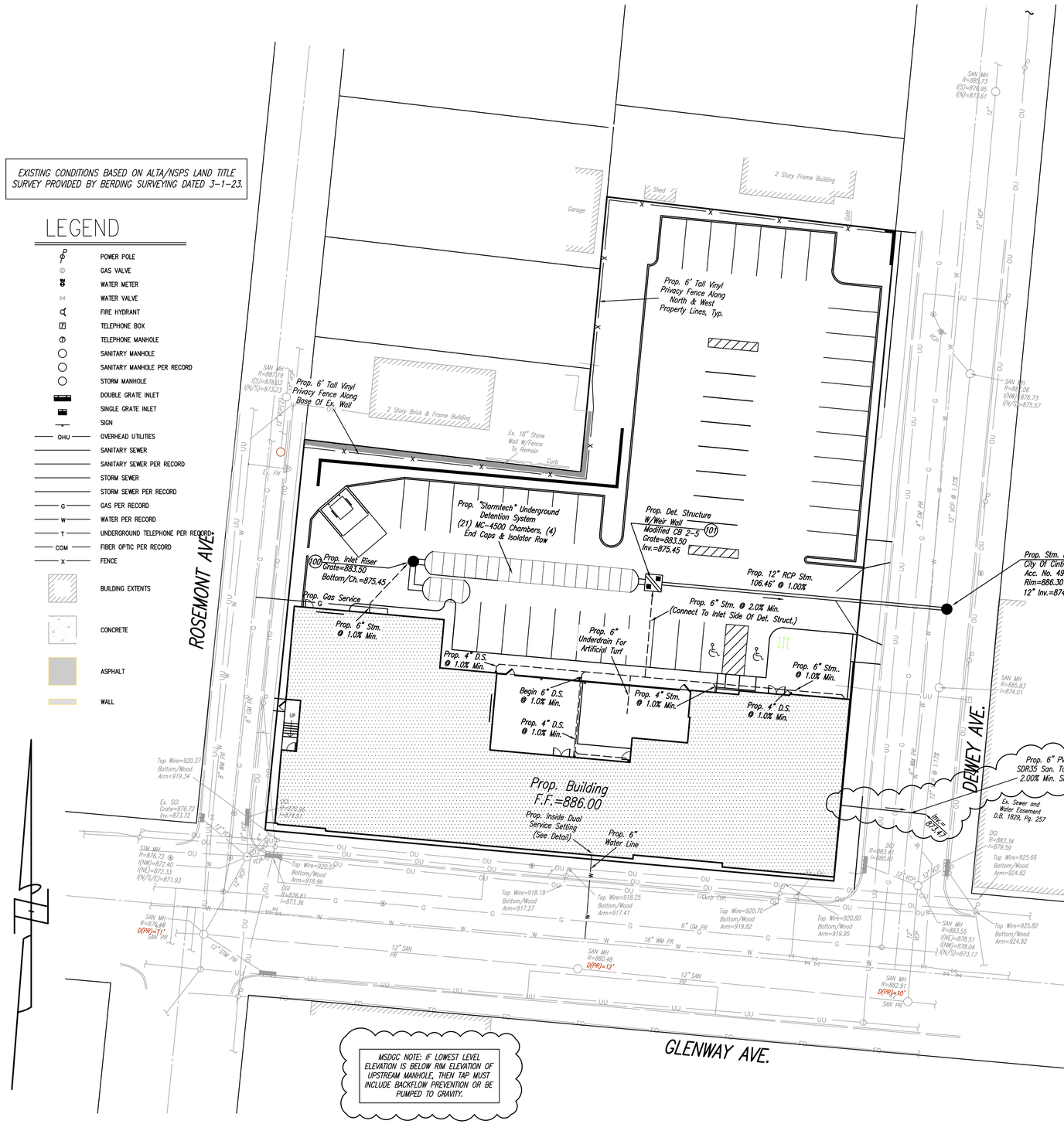
OHIO Utilities Protection SERVICE Call Before You Dig
1-800-362-2764

811 Know what's below. Call before you dig.

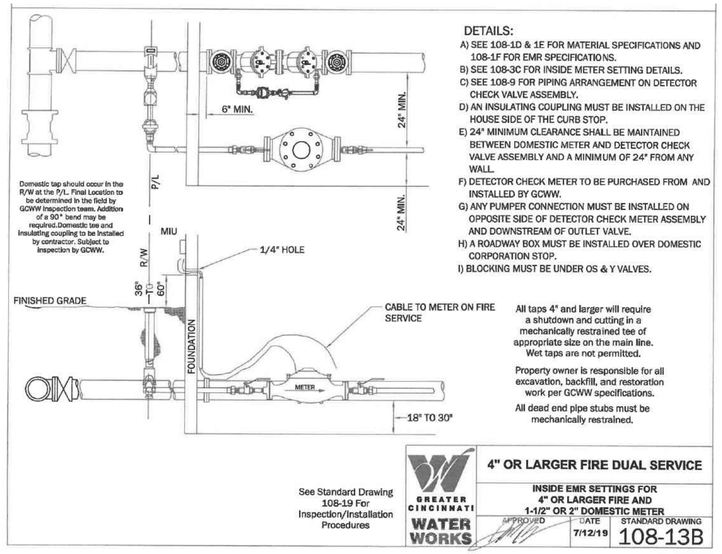
EXISTING CONDITIONS BASED ON ALTA/NSPS LAND TITLE SURVEY PROVIDED BY BERDING SURVEYING DATED 3-1-23.

LEGEND

- POWER POLE
- GAS VALVE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- TELEPHONE BOX
- TELEPHONE MANHOLE
- SANITARY MANHOLE
- SANITARY MANHOLE PER RECORD
- STORM MANHOLE
- DOUBLE GRATE INLET
- SINGLE GRATE INLET
- SIGN
- OHU — OVERHEAD UTILITIES
- SANITARY SEWER
- SANITARY SEWER PER RECORD
- STORM SEWER
- STORM SEWER PER RECORD
- G — GAS PER RECORD
- W — WATER PER RECORD
- T — UNDERGROUND TELEPHONE PER RECORD
- COM — FIBER OPTIC PER RECORD
- X — FENCE
- BUILDING EXTENTS
- CONCRETE
- ASPHALT
- WALL



MSDGC NOTE: IF LOWEST LEVEL ELEVATION IS BELOW RIM ELEVATION OF UPSTREAM MANHOLE, THEN TAP MUST INCLUDE BACKFLOW PREVENTION OR BE PUMPED TO GRAVITY.



DETAILS:

A) SEE 108-1D & 1E FOR MATERIAL SPECIFICATIONS AND 108-1F FOR EMR SPECIFICATIONS.
B) SEE 108-3C FOR INSIDE METER SETTING DETAILS.
C) SEE 108-9 FOR PIPING ARRANGEMENT ON DETECTOR CHECK VALVE ASSEMBLY.
D) AN INSULATING COUPLING MUST BE INSTALLED ON THE HOUSE SIDE OF THE CURB STOP.
E) 24" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN DOMESTIC METER AND DETECTOR CHECK VALVE ASSEMBLY AND A MINIMUM OF 24" FROM ANY WALL.
F) DETECTOR CHECK METER TO BE PURCHASED FROM AND INSTALLED BY GCWW.
G) ANY PUMPER CONNECTION MUST BE INSTALLED ON OPPOSITE SIDE OF DETECTOR CHECK METER ASSEMBLY AND DOWNSTREAM OF OUTLET VALVE.
H) A ROADWAY BOX MUST BE INSTALLED OVER DOMESTIC CORPORATION STOP.
I) BLOCKING MUST BE UNDER OS & Y VALVES.

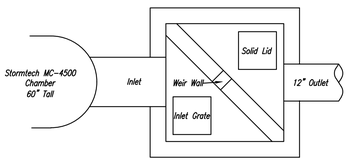
See Standard Drawing 108-19 For Inspection/Installation Procedures

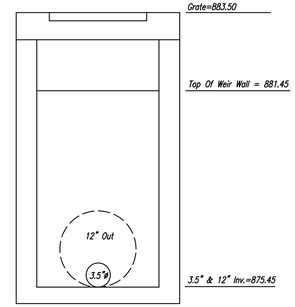
GREATER CINCINNATI WATER WORKS

4" OR LARGER FIRE DUAL SERVICE
INSIDE EMR SETTINGS FOR 4" OR LARGER FIRE AND 1-1/2" OR 2" DOMESTIC METER

APPROVED	DATE	STANDARD DRAWING
	7/12/19	108-13B

DETENTION STRUCTURE DETAIL MODIFIED O.D.O.T. CB 2-5 WITH WEIR WALL





STORM WATER DETENTION FACILITY TABLE

DESIGNATION	HIGHWATER ELEVATION (FT. ABOVE M.S.L.)	PRE-DEV Q ALLOW. (CFS)	POST-DEV Q25 (CFS)	REQUIRED STORAGE VOLUME (C.F.)	PROVIDED STORAGE VOLUME (C.F.)
STORMTECH SYSTEM	881.45	0.82	1.74	3,810	3,849

OHIO Utilities Protection SERVICE Call Before You Dig
1-800-362-2764
811 Know what's below. Call before you dig.

STATE OF OHIO BENJAMIN POOLE 85431 REGISTERED PROFESSIONAL ENGINEER 1/30/24

EMBOSS
EmbossDesign.com 906 Monmouth Street,
(859)431-8612 Newport, KY 41071

STATE OF OHIO CRAIG T. ABERCROMBIE 8377 REGISTERED PROFESSIONAL SURVEYOR 1/30/24

PRICE HILL TEEN CENTER & OFFICES FOR BOY AND GIRLS CLUB

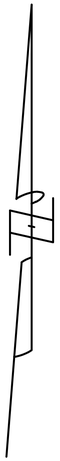
1205 Dewey Avenue
Cincinnati, Ohio, 45205

NO.	DESCRIPTION	DATE
	DD SET	11/13/23
1.	PERMIT SET	01/08/24
2.	BIDDING DOCUMENTS	02/12/24

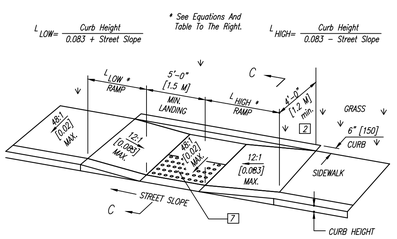
UTILITY PLAN

23-0016

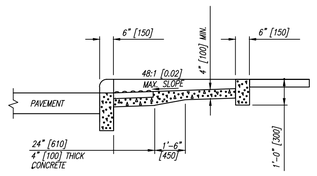
C400



EXISTING CONDITIONS BASED ON ALTA/NSPS LAND TITLE SURVEY PROVIDED BY BERDING SURVEYING DATED 3-1-23.



PARALLEL CURB RAMP DETAIL
TYPE B2 (Double Sided Parallel)



SECTION C-C

LANDSCAPE NOTES

ONE TREE (2" OR MORE IN CALIPER) PER 10 SPACES IS REQUIRED ALONG WITH A 3' WIDE MIN. LANDSCAPE AREA

45 PARKING SPACES PROPOSED; 5 TREES TREES REQUIRED/PROVIDED

DENOTES PROP. 2" MIN. CALIPER TREE, TYPICAL OF (5)

A 15' BOUNDARY BUFFER IS REQUIRED ALONG THE NORTH & WEST PROPERTY LINES THAT ABUT A RESIDENTIAL DISTRICT. A VARIANCE WILL BE REQUIRED TO ALLOW FOR A MORE NARROW BUFFER. A 6' FENCE IS REQUIRED ALONG WITH (1) 6' TALL EVERGREEN, (2) 1 ½" CALIPER TREES & (1) 2 ½" CALIPER TREES PER 50 LINEAL FEET. LINEAL FOOTAGE = 305.53'; (7) EVERGREENS, (13) 1 ½" CALIPER TREES & (7) 2 ½" CALIPER TREES REQUIRED & PROVIDED.

DENOTES PROP. 6' HIGH EVERGREEN, TYPICAL OF (7)

DENOTES PROP. 1 1/2" MIN. CALIPER TREE, TYPICAL OF (13)

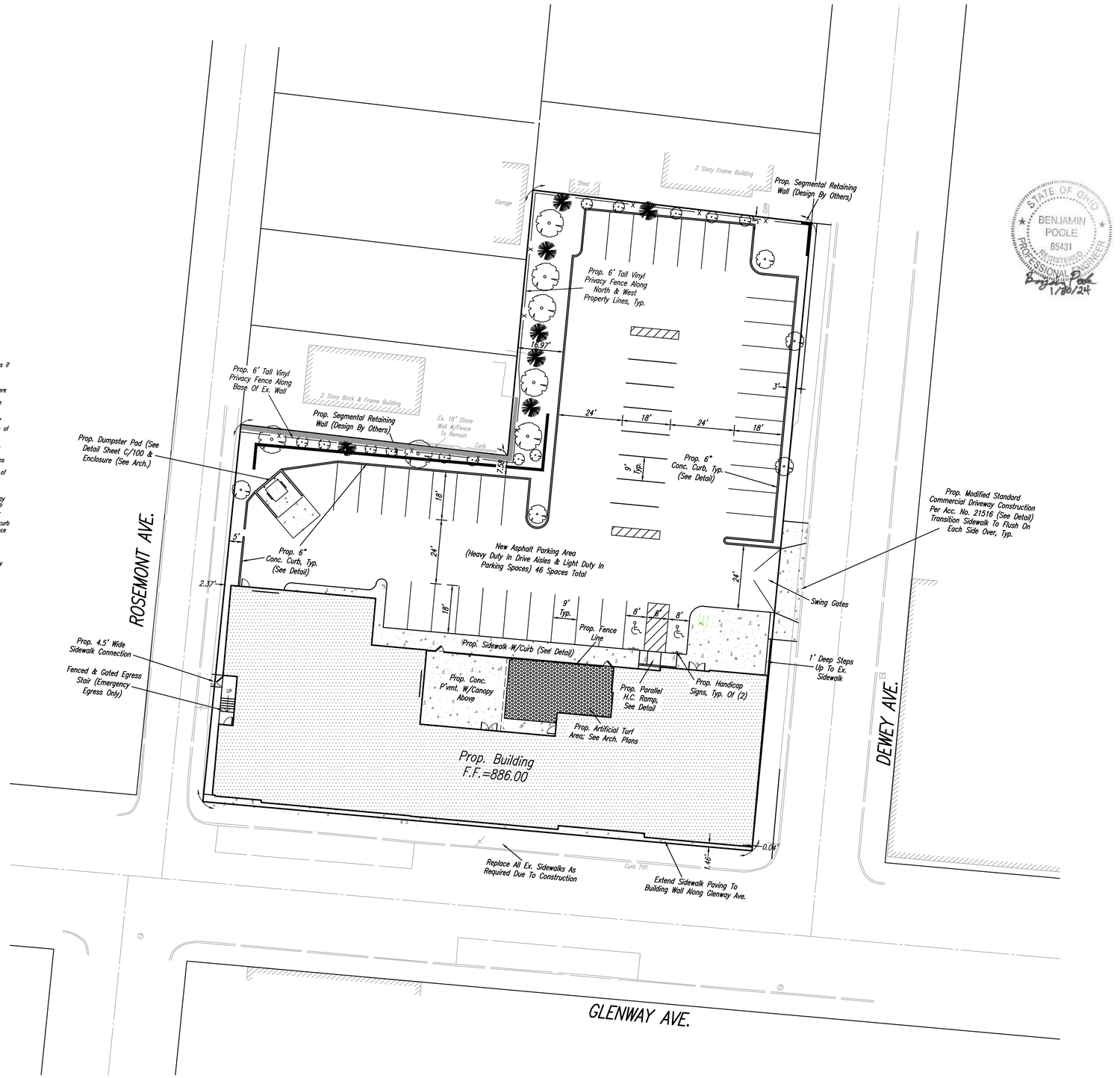
DENOTES PROP. 2 ½" MIN. CALIPER TREE, TYPICAL OF (7)

LEGEND

1. May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
2. May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.
3. Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

   Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.
5. The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.
6. Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.
7. Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp.

STREET SLOPE	RAMP LENGTH @ 1"/FT [0.083]	
	L LOW SIDE*	L HIGH SIDE*
0.01	5'-5" [1.6M]	6'-10" [2.1M]
0.02	4'-10" [1.5M]	7'-11" [2.4M]
0.03	4'-5" [1.3M]	9'-5" [2.9M]
0.04	4'-1" [1.2M]	11'-8" [3.6M]
0.05	3'-9" [1.1M]	15'-2" [4.6M]



emboss
EmbossDesign.com 906 Monmouth Street,
(859)431-8612 Newport, KY 41071

STATE OF OHIO BENJAMIN POOLE 89431 REGISTERED PROFESSIONAL ENGINEER
Benjamin Poole 1/30/24

STATE OF OHIO CRAIG T. ABERCROMBIE 8377 REGISTERED PROFESSIONAL SURVEYOR
1/30/24

PRICE HILL TEEN CENTER & OFFICES FOR BOY AND GIRLS CLUB

1205 Dewey Avenue
Cincinnati, Ohio,
45205

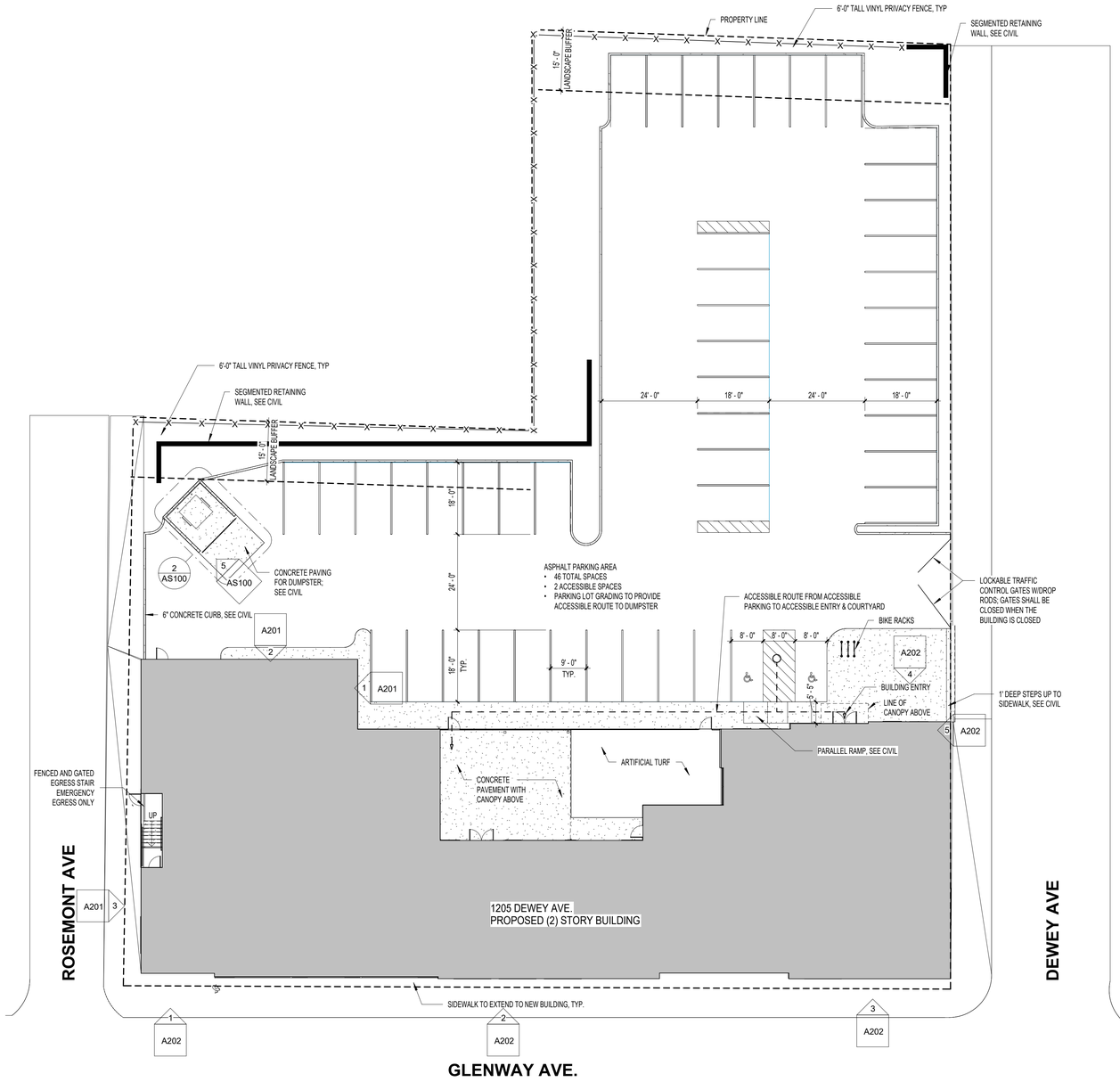
NO.	DESCRIPTION	DATE
	DD SET	11/13/23
1.	PERMIT SET	01/08/24
2.	BIDDING DOCUMENTS	02/12/24

SITE LAYOUT PLAN

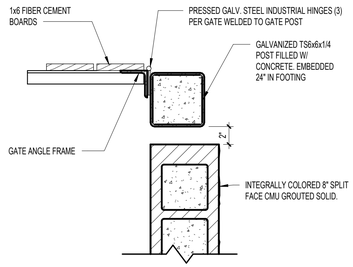
23-0016

C500

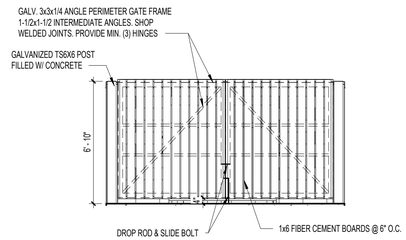
Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com
23-0016\DSGN\CA-DSGN



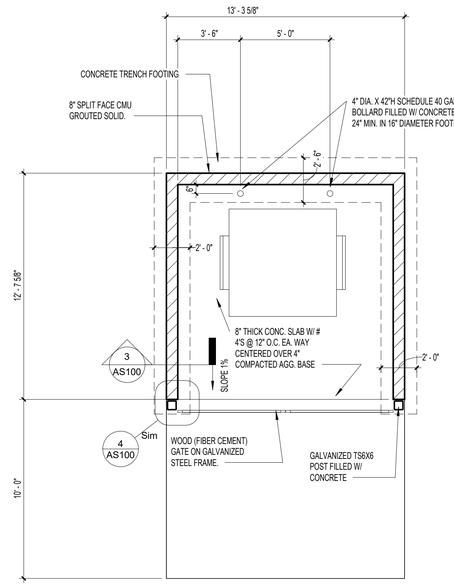
1 ARCHITECTURAL SITE PLAN
AS100 SCALE: 1/16" = 1'-0"



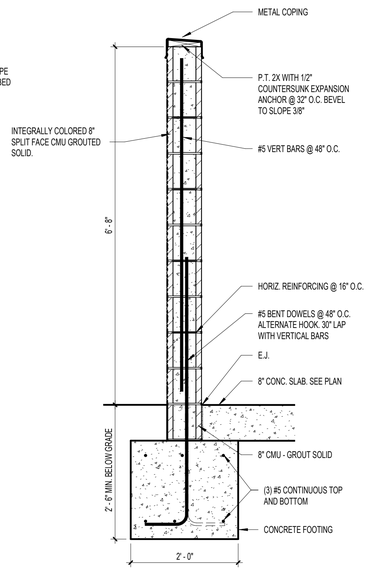
4 DUMPSTER ENCLOSURE PLAN DETAIL
AS100 SCALE: 1 1/2" = 1'-0"



5 DUMPSTER ENCLOSURE ELEVATION
AS100 SCALE: 1/4" = 1'-0"



2 DUMPSTER ENCLOSURE ENLARGED PLAN
AS100 SCALE: 1/4" = 1'-0"



3 DUMPSTER ENCLOSURE SECTION
AS100 SCALE: 3/4" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson
Expiration Date:
No. ARC. 2118357
12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

ARCHITECTURAL SITE

21-052

AS100

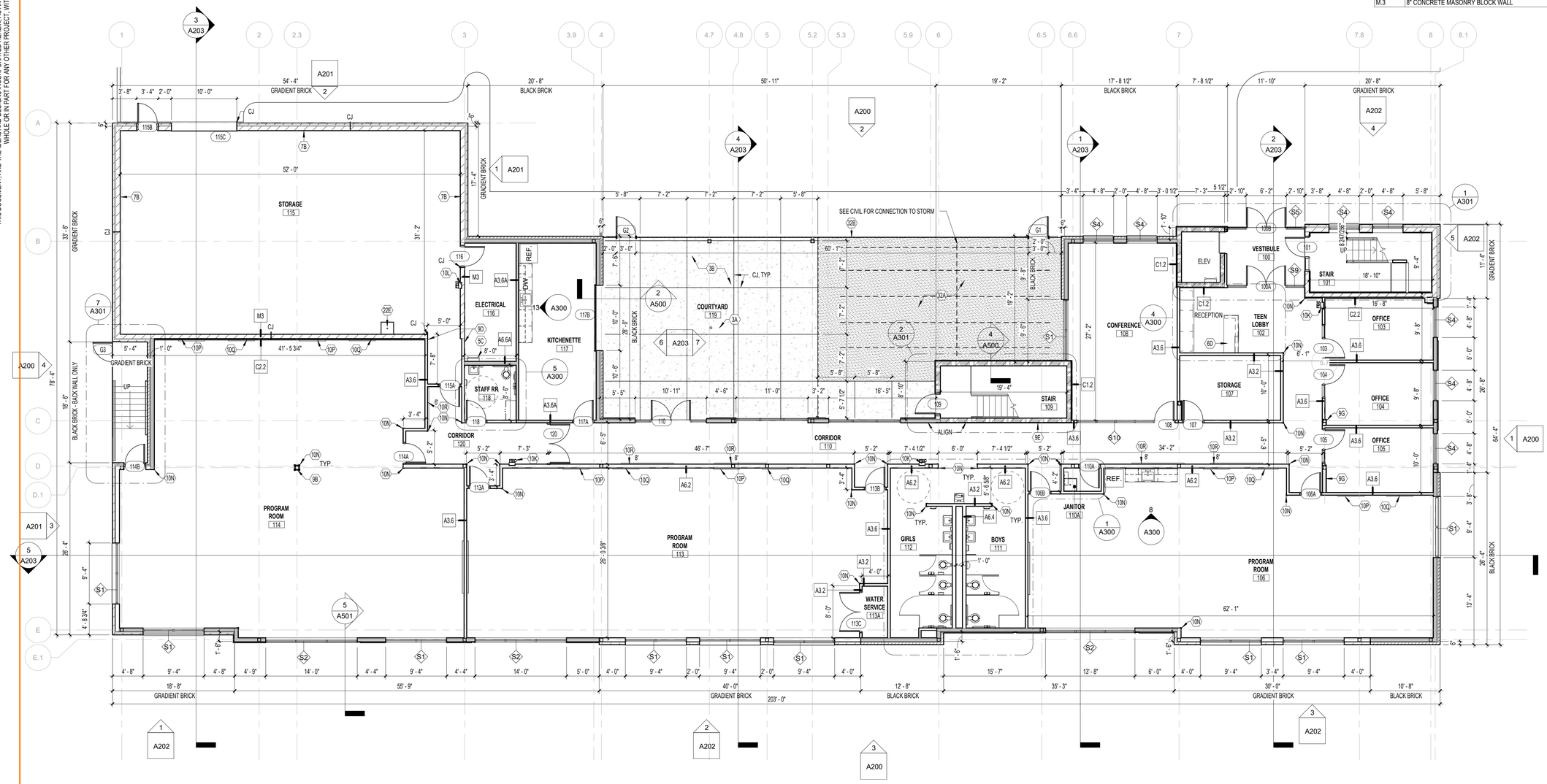
PRINT DATE: 2/21/2024 4:45:34 PM

SHEET KEYNOTES

3A	SLOPE PAVING TO AREA DRAIN
3B	STAMPED COLORED CONCRETE
5C	18" WIDE METAL ROOF ACCESS LADDER
6D	PLASTIC LAMINATE COUNTERTOP.
7B	FILL EXTERIOR CMU WITH SPRAY FOAM INSULATION.
9B	BOX OUT AROUND COLUMN TO MINIMUM DIMENSION
9D	ALIGN FINISH FACE OF GYPSUM WALL BOARD WITH FINISH FACE OF CMU.
9E	LAMINATE FACE OF CMU WITH 5/8" GYPSUM BOARD. ALIGN ADJACENT FACE OF WALL WITH LAMINATED CMU WALL.
9G	BOX OUT AROUND COLUMN. EXTEND FURING TO ADJACENT CORNER.
10K	FIRE EXTINGUISHER IN SEMI RECESSED FIRE EXTINGUISHER CABINET.
10L	FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET.
10N	CORNER GUARD.
10P	4'-0" X 4'-0" MARKER BOARD. BOTTOM MOUNTED @ 3'-0", VERIFY LOCATION W/OWNER PRIOR TO INSTALLATION.
10Q	4'-0" X 4'-0" TACK BOARD. BOTTOM MOUNTED @ 3'-0", VERIFY LOCATION W/OWNER PRIOR TO INSTALLATION.
10R	TACK STRIP. SEE PLAN FOR LENGTH.
22E	UTILITY SINK. SEE PLUMBING DRAWINGS.
32A	PROVIDE ARTIFICIAL TURF AND SUBSURFACE FIELD MATERIAL AND SYSTEMS INCLUDING, GEOTEXTILE MEMBRANE, GRAVEL DRAINAGE LAYER, DRAINAGE PIEP, ACCESSORIES, AND CONNECTION TO THE STORM WATER SYSTEM.
32B	4' HIGH, PREFINISHED SPEAR-TOP PICKET ALUMINUM FENCE.

WALL TYPES

Type Mark	Description	Fire Rating
A3.2	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A3.4	5/8" GYPSUM BOARD (ONE SIDE) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING OR TO STRUCTURE WHERE EXPOSED	-
A3.6	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING. BRACE TO STRUCTURE ABOVE AT 48" O.C .ALTERNATING DIRECTION). TYP. WALL UNLESS NOTED OTHERWISE	-
A3.6A	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO STRUCTURE ABOVE	-
A6.2	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING. BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A6.4	5/8" GYPSUM BOARD (ONE SIDES) OVER 6" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A6.6	5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
A6.6A	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO STRUCTURE ABOVE.	-
C1.2	NEW FURRING: 5/8" GYPSUM BOARD (ONE SIDE) OVER 7/8" X 20 GA. HAT CHANNELS AT 16" O.C.	-
C2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 1-5/8"" x 20 GA. METAL STUDS AT 16" . PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING	-
M3	8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	1
M3.1	(1) HOUR FIRE RATED PARTITION SIMILAR TO U.L. #U905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	1
M.3	8" CONCRETE MASONRY BLOCK WALL	-



MAGNETIC PLAN 1 A100 — FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

PRINT DATE: 2/21/2024 4:45:36 PM

EMBOSS
EmbossDesign.com 906 Monmouth Street,
(859)431-8612 Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT
Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

FIRST FLOOR PLAN

21-052

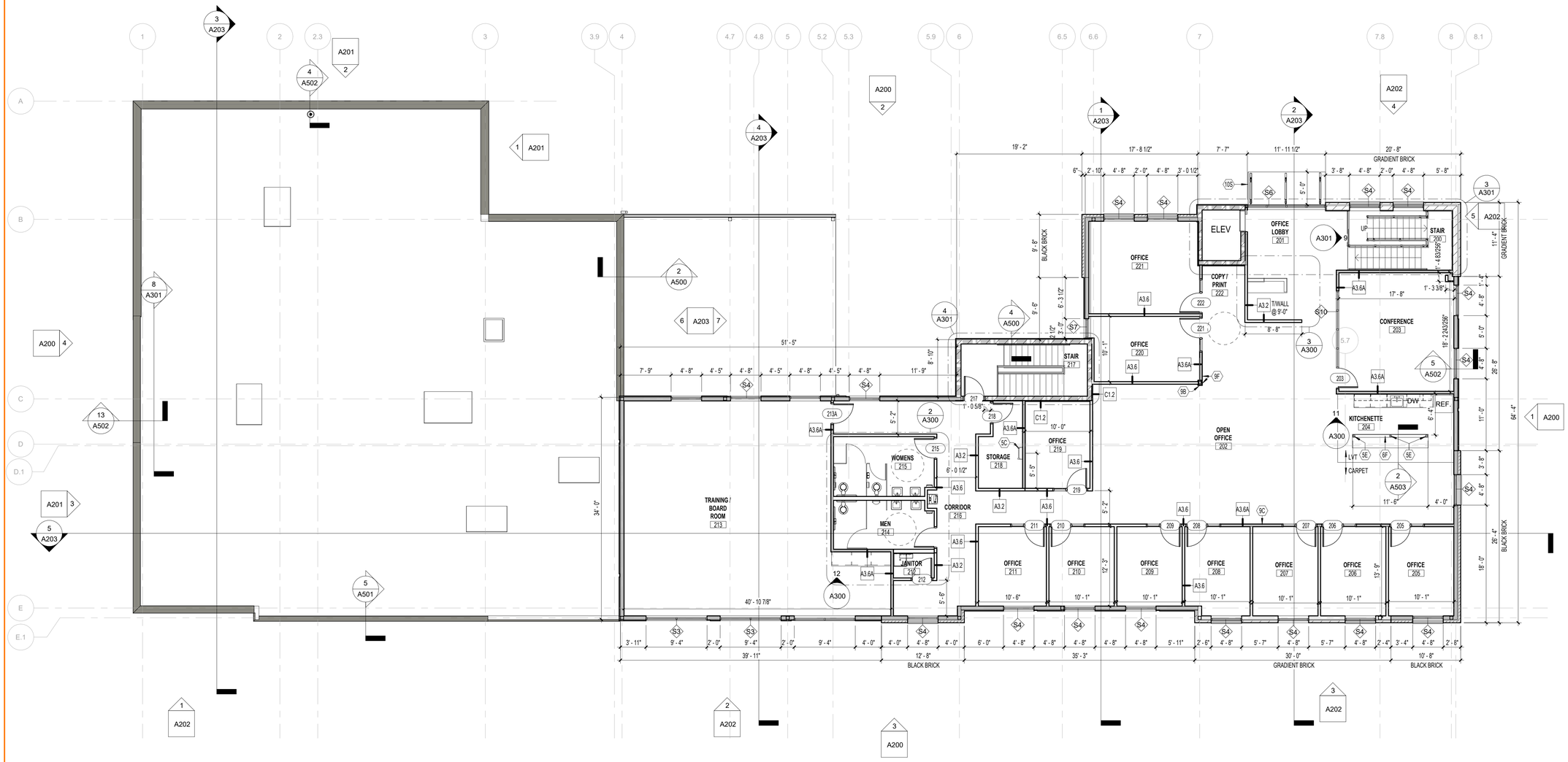
A100

SHEET KEYNOTES

5C	18" WIDE METAL ROOF ACCESS LADDER
5E	TS 3X3X1/4 36" HIGH POST W/ 3X7X1/4" BACKPLATE & (2) 5/8" THRU BOLTS THRU SLAB DECK. ATTATCH STUDS TO TS.
6F	2'-1" WIDE SOLID SURFACE CONTERTOP ON 42" HIGH KNEE WALL. PROVIDE UNDERCOUNTER SUPPORTS AT 4'-0" O.C. MIN.
9B	BOX OUT AROUND COLUMN TO MINIMUM DIMENSION
9C	PORTION OF WALL BETWEEN GRIDLINE 5 AND 6 EXTENDS TO ROOF DECK.
9F	ALIGN FINISH FACE OF COLUMN BOX TO FINISH FACE OF ADJACENT WALL.
10S	PREFABRICATED ALUMINUM HANGER ROD AWNING SHALL BE MAPES ARCHITECTURAL CANOPY, QUEEN CITY AWNING, OR EQUAL. PROVIDE FLAT SOFFIT AND 8" HIGH SMOOTH 'J' FASCIA. WALL MOUNTED BOLTS SHALL BE CONCEALED WITHIN CANOPY SYSTEM. FLASH ROOF SURFACE TO WALL TO PROVIDE WATERTIGHT TRANSITION. CONNECT TO STORMWATER DRAINAGE SYSTEM.

WALL TYPES

Type Mark	Description	Fire Rating
A3.2	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A3.4	5/8" GYPSUM BOARD (ONE SIDE) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING OR TO STRUCTURE WHERE EXPOSED	-
A3.6	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING. BRACE TO STRUCTURE ABOVE AT 48" O.C .ALTERNATING DIRECTION). TYP. WALL UNLESS NOTED OTHERWISE	-
A3.6A	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO STRUCTURE ABOVE	-
A6.2	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING. BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A6.4	5/8" GYPSUM BOARD (ONE SIDES) OVER 6" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A6.6	5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
A6.6A	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO STRUCTURE ABOVE.	-
C1.2	NEW FURRING: 5/8" GYPSUM BOARD (ONE SIDE) OVER 7/8" X 20 GA. HAT CHANNELS AT 16" O.C.	-
C2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 1-5/8"" x 20 GA. METAL STUDS AT 16" . PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING	-
M3	8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	1
M3.1	(1) HOUR FIRE RATED PARTITION SIMILAR TO U.L. #U905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	1
M.3	8" CONCRETE MASONRY BLOCK WALL	-



1 SECOND FLOOR
A101 SCALE: 1/8" = 1'-0"

PRINT DATE: 2/21/2024 4:45:38 PM

emboss
EmbossDesign.com 906 Monmouth Street,
(859)431-8612 Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

SECOND FLOOR PLAN

21-052

A101

ROOF PLAN LEGEND

- ROOF SLOPE DOWN (PITCH)
- DS — 3" x 4" DOWNSPOUT
- GUTTER — 6" GUTTER
- WALL LINE BELOW
- (UNSHADED) SINGLY PLY ROOF MEMBRANE; MECHANICALLY FASTENED UNLESS NOTED OTHERWISE
- STANDING SEAM CURVED ROOF
- TAPERED ROOF INSULATION ON ROOF INSULATION SLOPE 1/4" / 12"
- RD — PRIMARY ROOF DRAIN
- WALKWAY PADS

GENERAL NOTES - ROOF PLAN

A. ROOF PLAN DOES NOT SHOW ALL MECHANICAL / ELECTRICAL ROOFTOP EQUIPMENT AND PENETRATIONS, SUCH AS PLUMBING VENT. SEE RESPECTIVE DRAWINGS FOR SUCH EQUIPMENT AND PENETRATIONS.

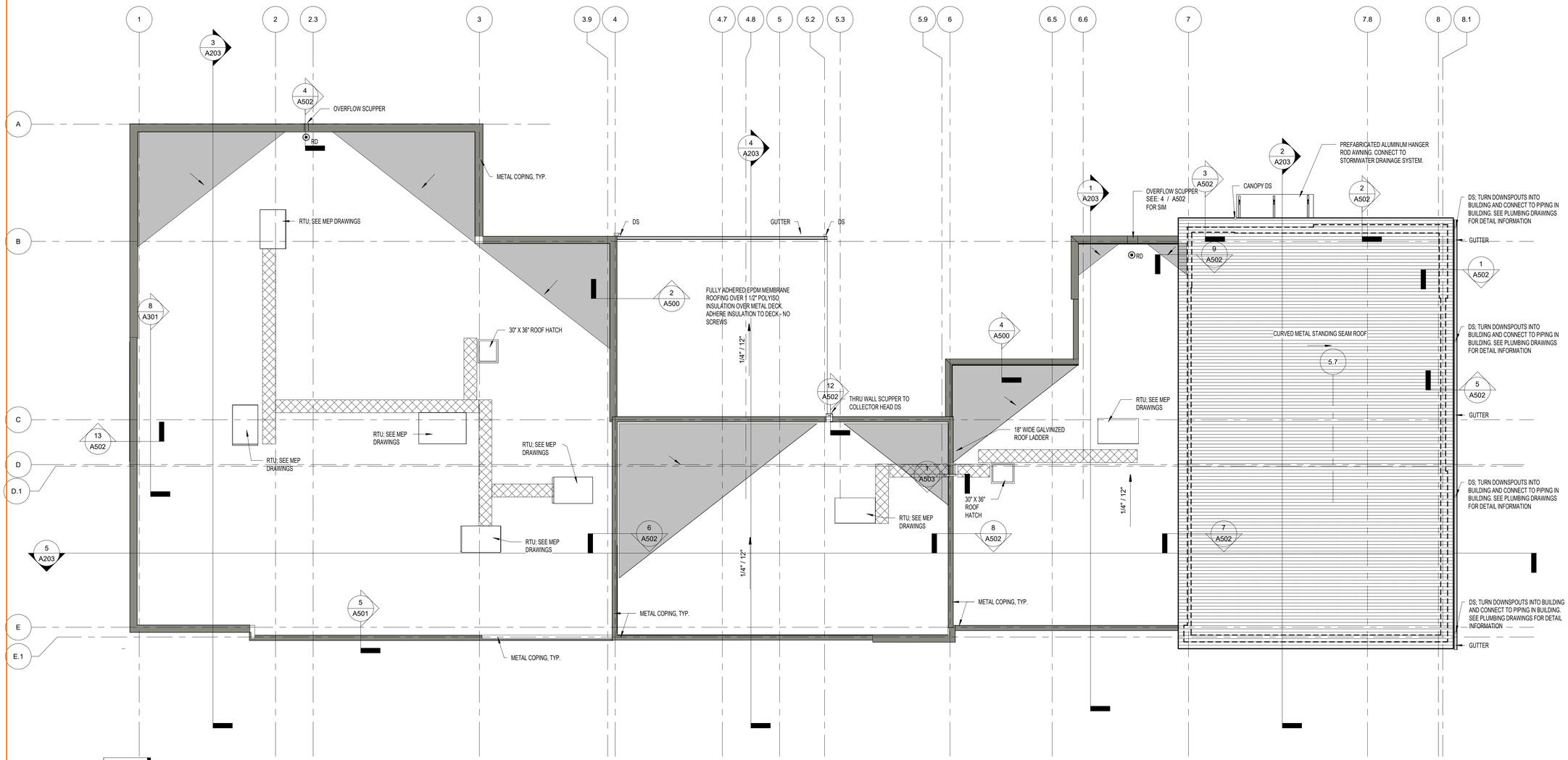
B. PROVIDE TAPERED INSULATION CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP MOUNTED EQUIPMENT.

C. PROVIDE FLASHING AT ALL ROOF PENETRATIONS AS REQUIRED BY ROOFING MANUFACTURER TO PROVIDE WATERTIGHT INSTALLATION AND COMPLY WITH WARRANTY REQUIREMENTS

D. PREFABRICATED ALUMINUM AWNING SHALL BE CANTILEVERED MAPES ARCHITECTURAL CANOPY OR EQUAL. PROVIDE FLAT SOFFIT AND 8" HIGH SMOOTH 'J' FASCIA. WALLMOUNTED BOLTS SHALL BE CONCEALED WITHIN CANOPY SYSTEM. FLASH ROOF SURFACE TO WALL TO PROVIDE WATERTIGHT TRANSITION. DRAIN CANOPY TO SPLASH BLOCK DIRECTING AWAY FROM BUILDING.

E. STANDING SEAM METAL ROOF TO BE 22 GA GALVNIZED SHEET STEEL WITH TWO COAT FLUOROPOLYMER FINISH. SEAM HEIGHT TO BE 1-1/2", PANEL COVERAGE 16". PROVIDE 20 YEAR WEATHERTIGHTNESS WARRANTY AND 20 YEAR WARRANTY ON FINISH.

F. EPDM ROOM MEMBRANE TO BE WHITE 60 MIL MECHANICALLY FASTENED. PROVIDE 15 YEAR WARRANTY.



MAGNETIC PLAN

1 / A102 — ROOF PLAN

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

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson — No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

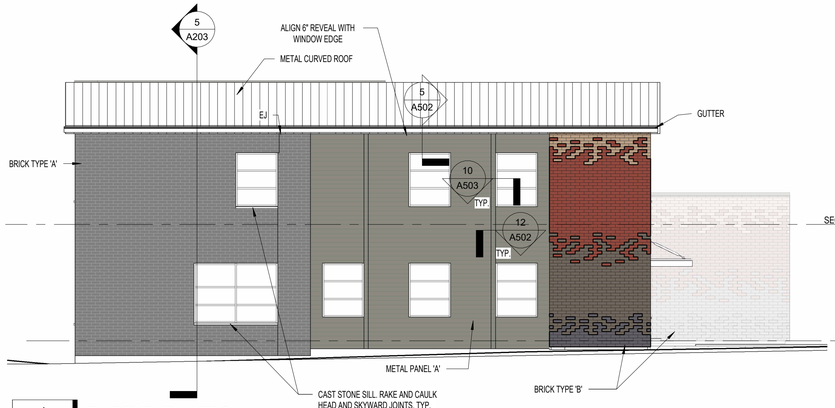
NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

ROOF PLAN

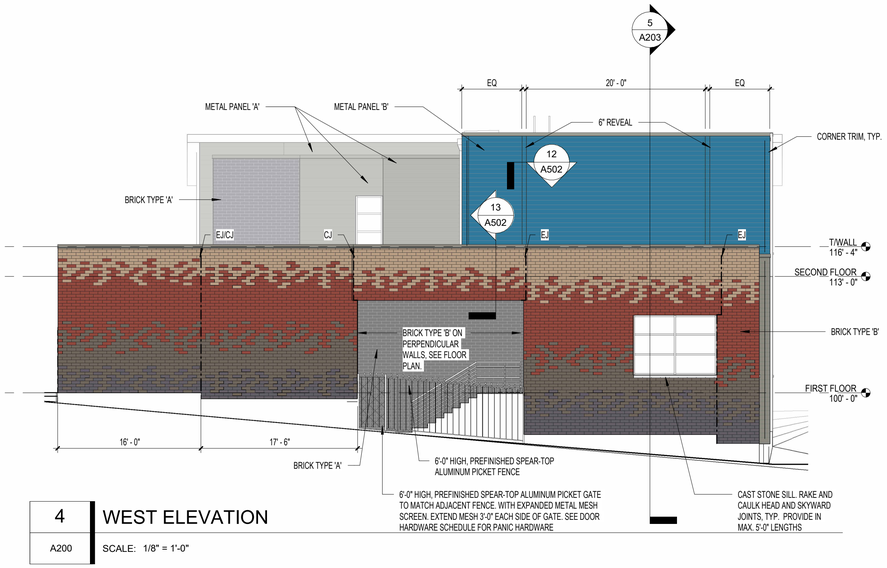
21-052

A102

PRINT DATE: 2/21/2024 4:45:40 PM



1 EAST ELEVATION
A200 SCALE: 1/8" = 1'-0"



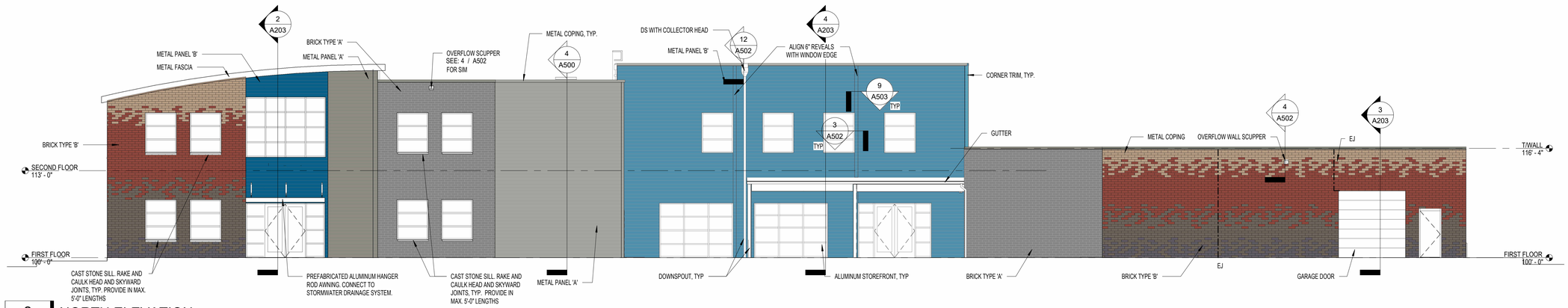
4 WEST ELEVATION
A200 SCALE: 1/8" = 1'-0"

GENERAL NOTES - ELEVATIONS

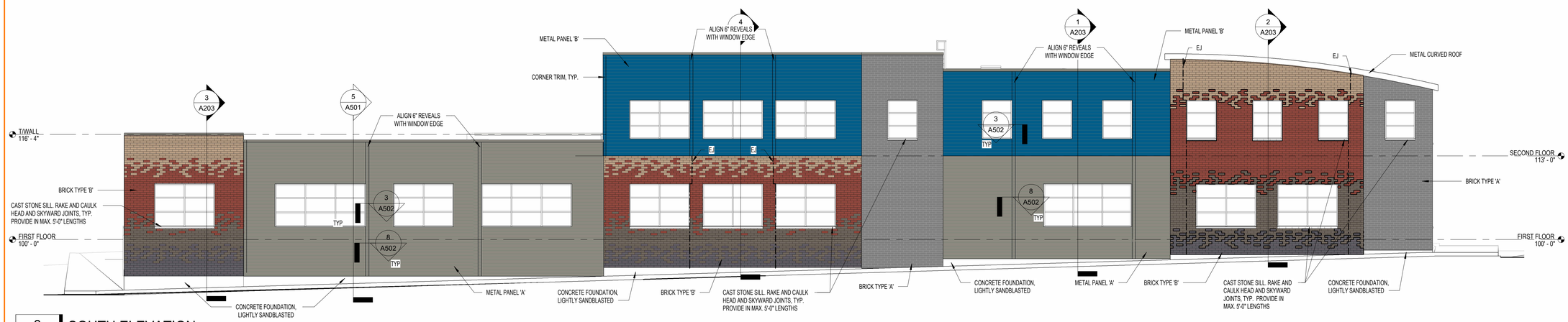
A. METAL PANEL SIDING - TYPE 'A' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLL HORIZONTIAL. COLOR SHALL BE SANDSTONE OR EQUAL
B. METAL PANEL SIDING - TYPE 'B' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLED HORIZONTIAL. COLOR SHALL BE CUSTOM COLOR TO MATCH PANTONE BLUE.
C. BRICK - TYPE 'A'

EXTERIOR ELEVATION MATERIAL LEGEND

- BRICK 4; B.O.D YANKEE HILL, BEIGE VELOUR, UTILITY BRICK
- BRICK 3; B.O.D MATCH BRICK AT SHEAKLEY CLUB, 4100 GLENWAY AVE
- BRICK 2; B.O.D YANKEE HILL, METRO IRONSPOT VELOUR, UTILITY BRICK
- BRICK 1; B.O.D YANKEE HILL, CHARCOAL VELOUR, UTILITY BRICK
- METAL PANEL SIDING - TYPE 'A' BOD DMI FP1012 SMOOTH, 22 GA. INSTALL HORIZONTAL. COLOR SHALL BE SANDSTONE OR EQUAL
- METAL PANEL SIDING - TYPE 'B' BOD DMI FP1012 SMOOTH, 22 GA. INSTALLED HORIZONTAL. COLOR SHALL BE ROYAL BLUE



2 NORTH ELEVATION
A200 SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
A200 SCALE: 1/8" = 1'-0"

emboss
EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC 2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

EXTERIOR ELEVATIONS

21-052

A200

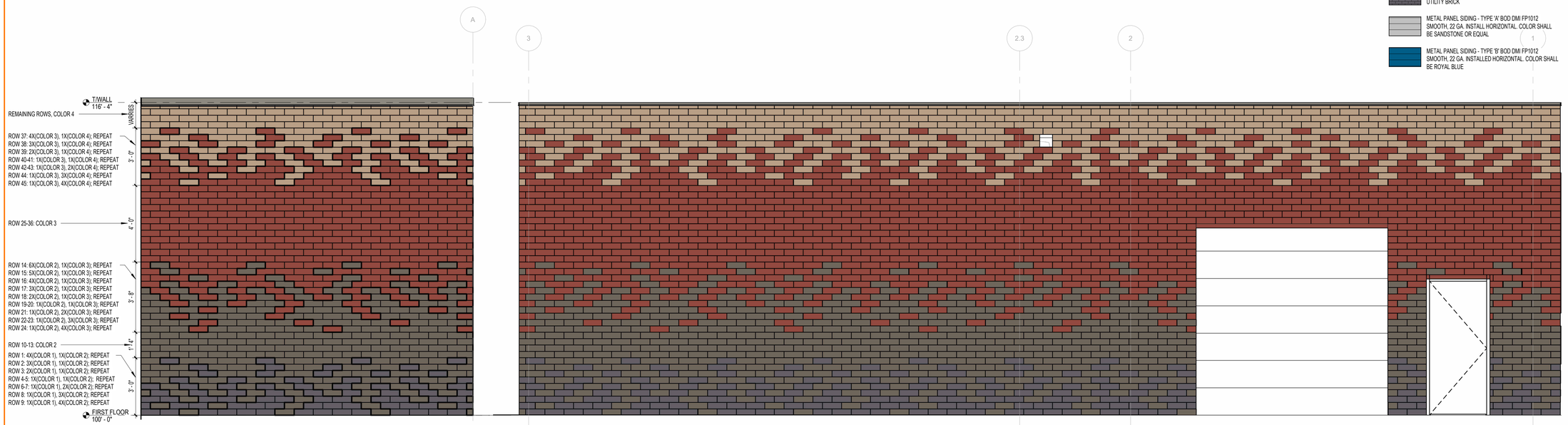
PRINT DATE: 2/21/2024 4:45:52 PM

GENERAL NOTES - ELEVATIONS

A. METAL PANEL SIDING - TYPE 'A' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLL HORIZONTIAL. COLOR SHALL BE SANDSTONE OR EQUAL
B. METAL PANEL SIDING - TYPE 'B' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLED HORIZONTIAL. COLOR SHALL BE CUSTOM COLOR TO MATCH PANTONE BLUE.
C. BRICK - TYPE 'A'
D. BRICK - TYPE 'B' THREE COLOR GRADIENT.

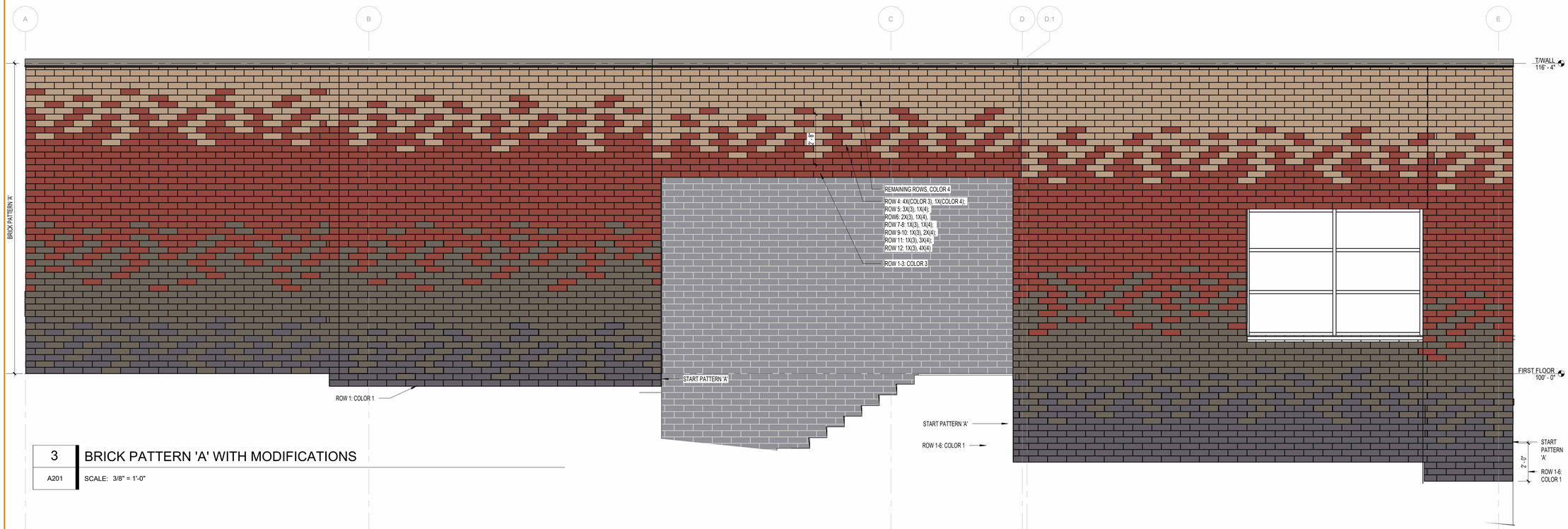
EXTERIOR ELEVATION MATERIAL LEGEND

- BRICK 4; B.O.D YANKEE HILL, BEIGE VELOUR, UTILITY BRICK
- BRICK 3; B.O.D MATCH BRICK AT SHEAKLEY CLUB, 4100 GLENWAY AVE
- BRICK 2; B.O.D YANKEE HILL, METRO IRONSPOT VELOUR, UTILITY BRICK
- BRICK 1; B.O.D YANKEE HILL, CHARCOAL VELOUR, UTILITY BRICK
- METAL PANEL SIDING - TYPE 'A' BOD DMI FP1012 SMOOTH, 22 GA. INSTALL HORIZONTAL. COLOR SHALL BE SANDSTONE OR EQUAL
- METAL PANEL SIDING - TYPE 'B' BOD DMI FP1012 SMOOTH, 22 GA. INSTALLED HORIZONTAL. COLOR SHALL BE ROYAL BLUE



1 | A201 — BRICK PATTERN 'A'
SCALE: 3/8" = 1'-0"

2 | A201 — BRICK PATTERN 'A'
SCALE: 3/8" = 1'-0"



3 | A201 — BRICK PATTERN 'A' WITH MODIFICATIONS
SCALE: 3/8" = 1'-0"

PRINT DATE: 2/21/2024 4:45:59 PM

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

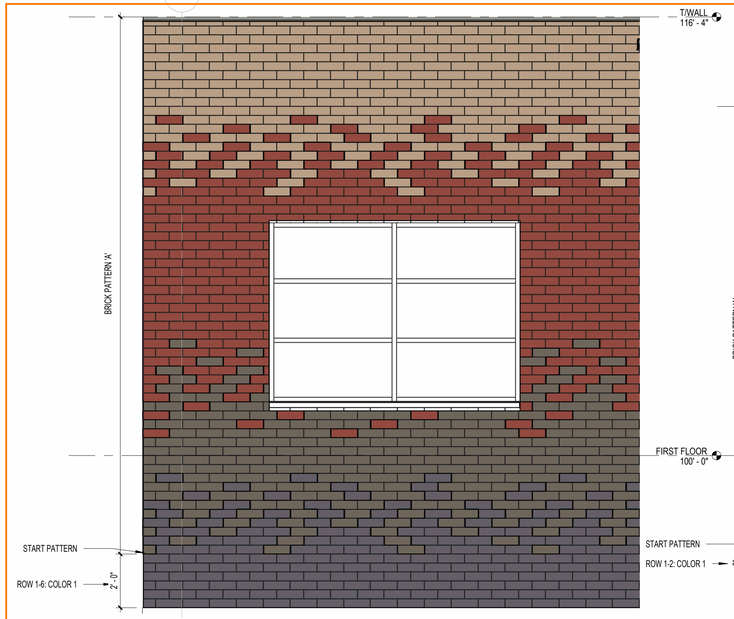
BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
2	BID DOCUMENTS	02/12/2024

ENLARGED BRICK ELEVATIONS

21-052

A201



1 BRICK PATTERN 'A' WITH MODIFICATIONS
A202 SCALE: 3/8" = 1'-0"

2 BRICK PATTERN 'A' WITH MODIFICATIONS
A202 SCALE: 3/8" = 1'-0"

GENERAL NOTES - ELEVATIONS

A. METAL PANEL SIDING - TYPE 'A' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLL HORIZONTIAL. COLOR SHALL BE SANDSTONE OR EQUAL
B. METAL PANEL SIDING - TYPE 'B' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLED HORIZONTIAL. COLOR SHALL BE CUSTOM COLOR TO MATCH PANTONE BLUE.
C. BRICK - TYPE 'A'
D. BRICK - TYPE 'B' [illegible]

EXTERIOR ELEVATION MATERIAL LEGEND

- BRICK 4: B.O.D YANKEE HILL, BEIGE VELOUR, UTILITY BRICK
- BRICK 3: B.O.D MATCH BRICK AT SHEAKLEY CLUB, 4100 GLENWAY AVE
- BRICK 2: B.O.D YANKEE HILL, METRO IRONSPOT VELOUR, UTILITY BRICK
- BRICK 1: B.O.D YANKEE HILL, CHARCOAL VELOUR, UTILITY BRICK
- METAL PANEL SIDING - TYPE 'A' BOD DMI FP1012 SMOOTH, 22 GA. INSTALL HORIZONTAL. COLOR SHALL BE SANDSTONE OR EQUAL
- METAL PANEL SIDING - TYPE 'B' BOD DMI FP1012 SMOOTH, 22 GA. INSTALLED HORIZONTAL. COLOR SHALL BE ROYAL BLUE

3 BRICK PATTERN 'B'
A202 SCALE: 3/8" = 1'-0"

4 BRICK PATTERN 'C'
A202 SCALE: 3/8" = 1'-0"

5 BRICK PATTERN 'C' WITH MODIFICATIONS
A202 SCALE: 3/8" = 1'-0"

PRINT DATE: 2/21/2024 4:46:06 PM

emBOSS
EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

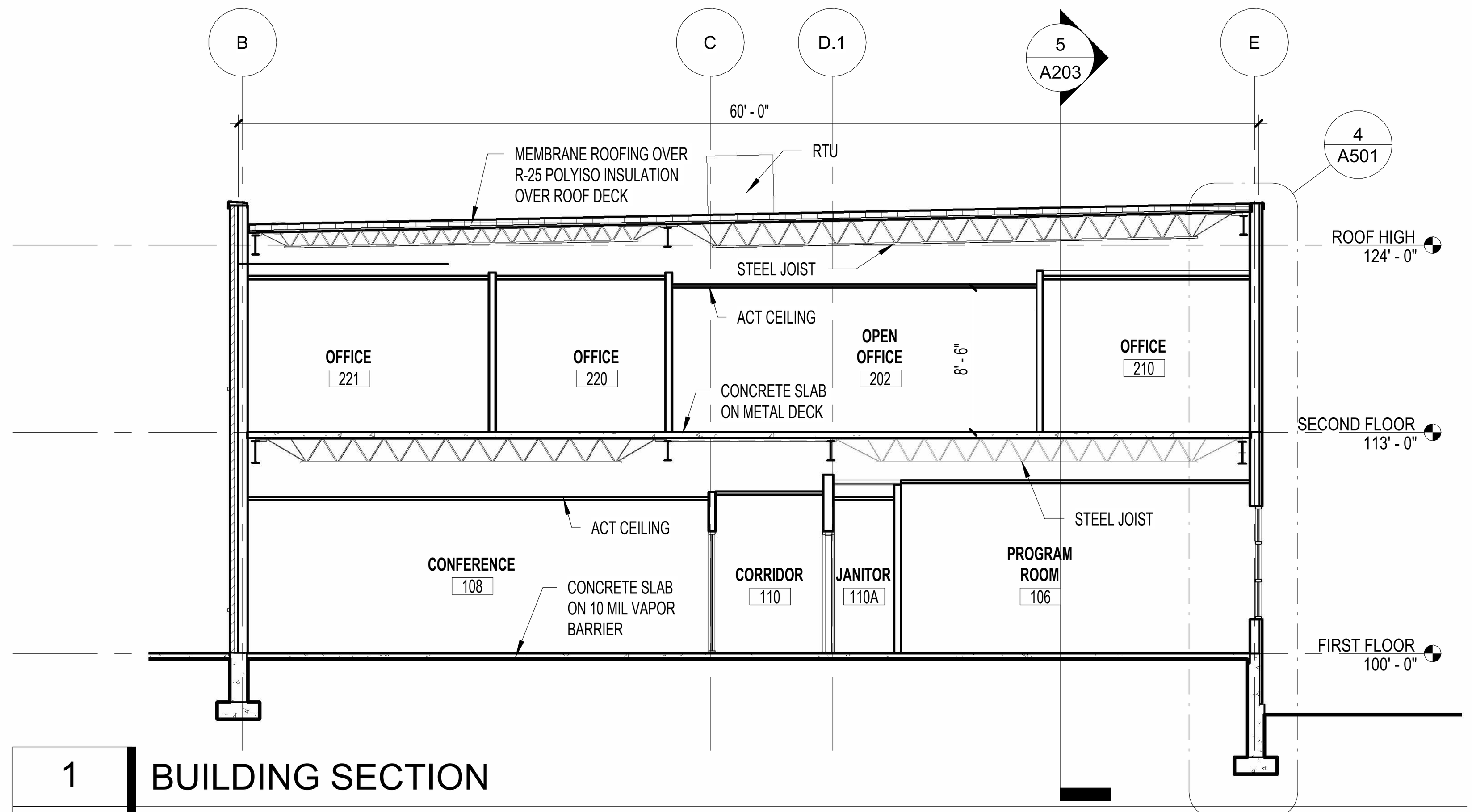
BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
2	BID DOCUMENTS	02/12/2024

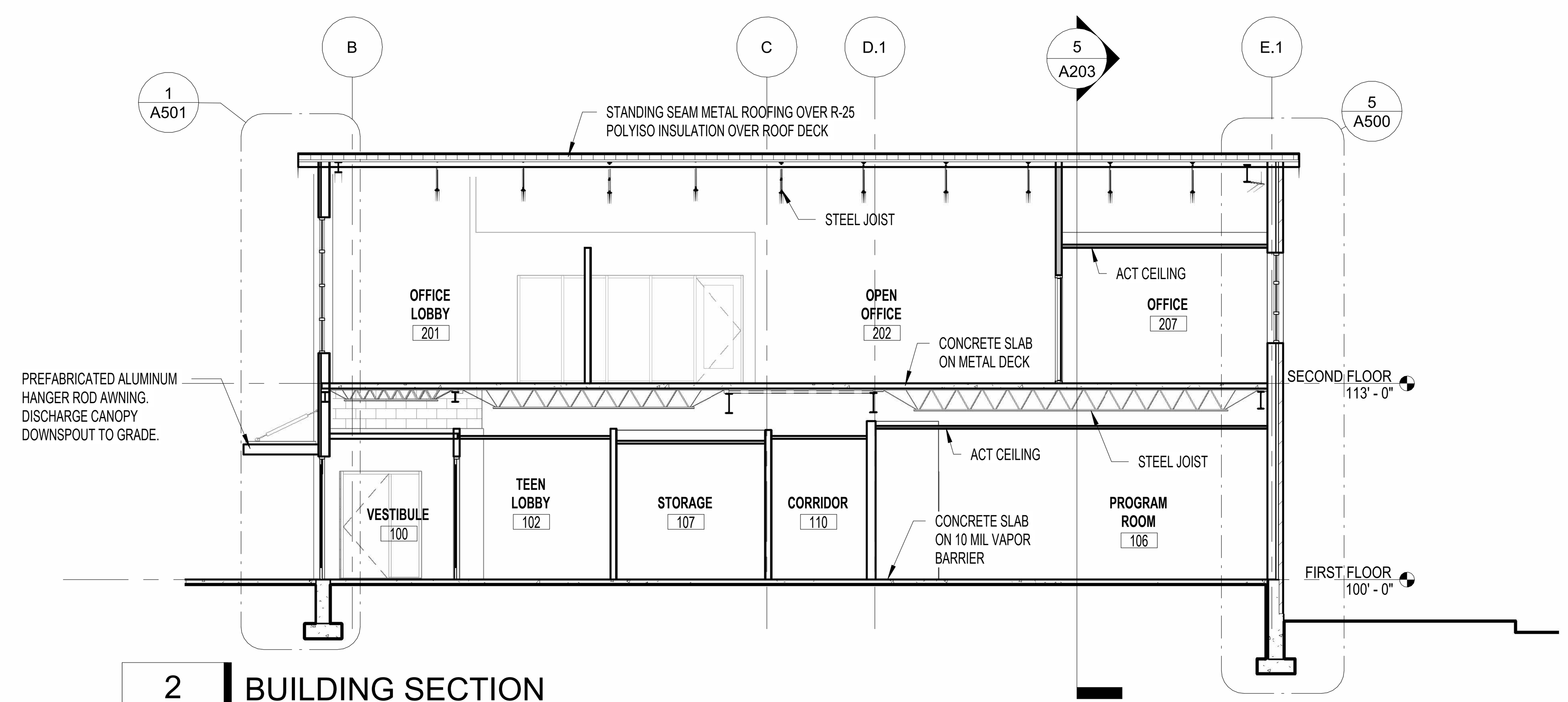
ENLARGED BRICK ELEVATIONS

21-052

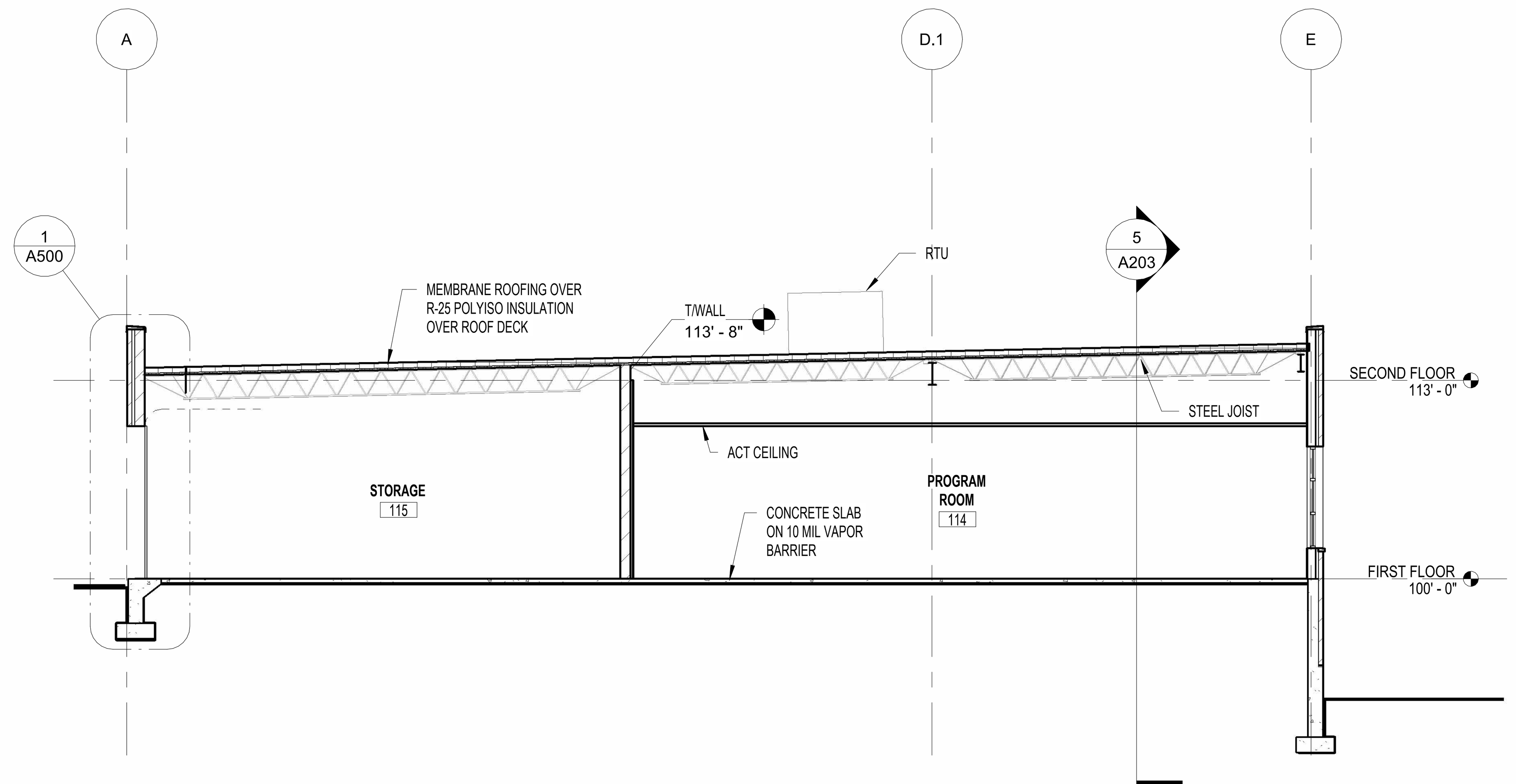
A202



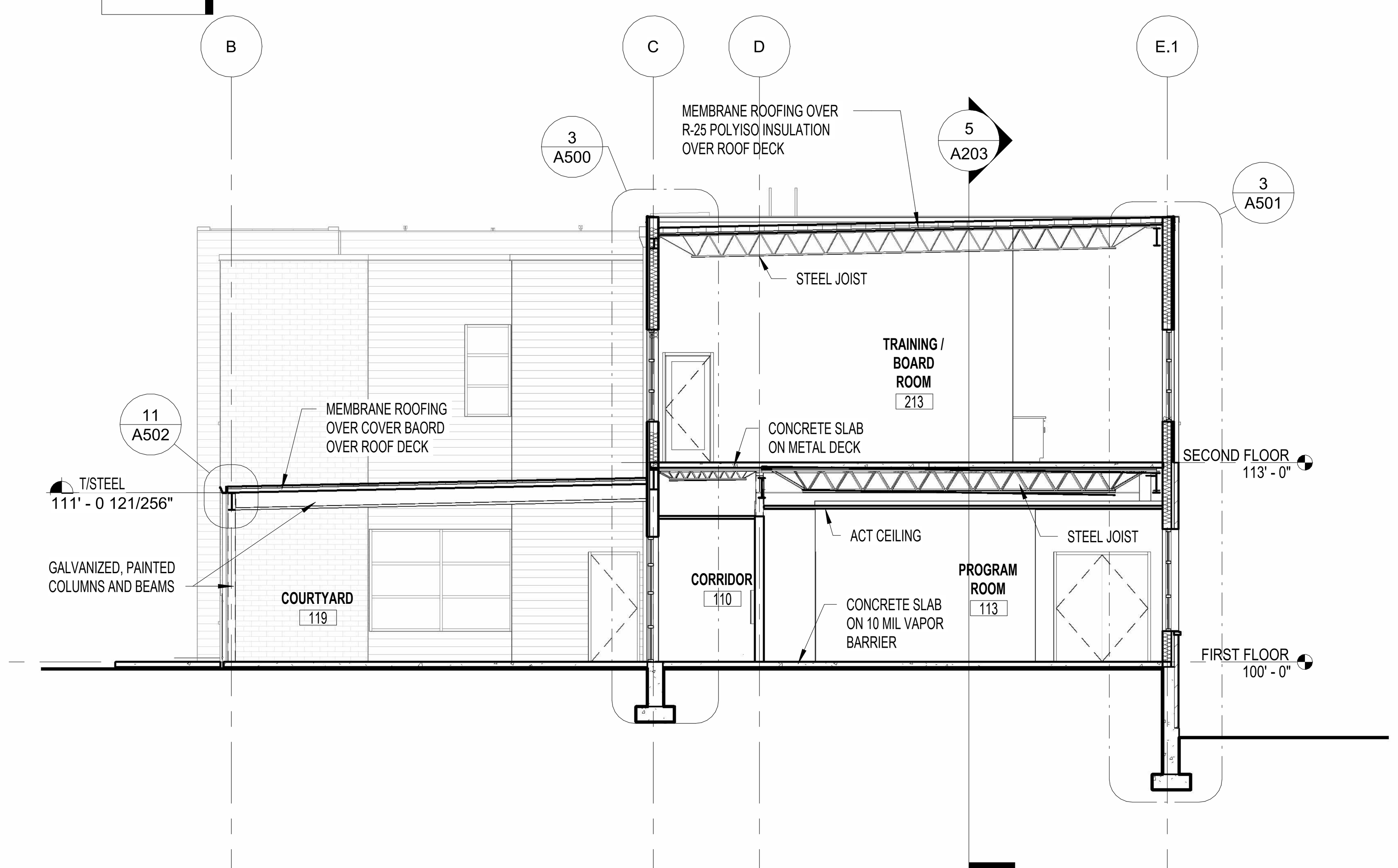
1 BUILDING SECTION
A203 SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
A203 SCALE: 1/8" = 1'-0"



3 BUILDING SECTION
A203 SCALE: 1/8" = 1'-0"



4 BUILDING SECTION
A203 SCALE: 1/8" = 1'-0"

GENERAL NOTES - ELEVATIONS

A. METAL PANEL SIDING - TYPE 'A' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLL HORIZONTIAL. COLOR SHALL BE SANDSTONE OR EQUAL

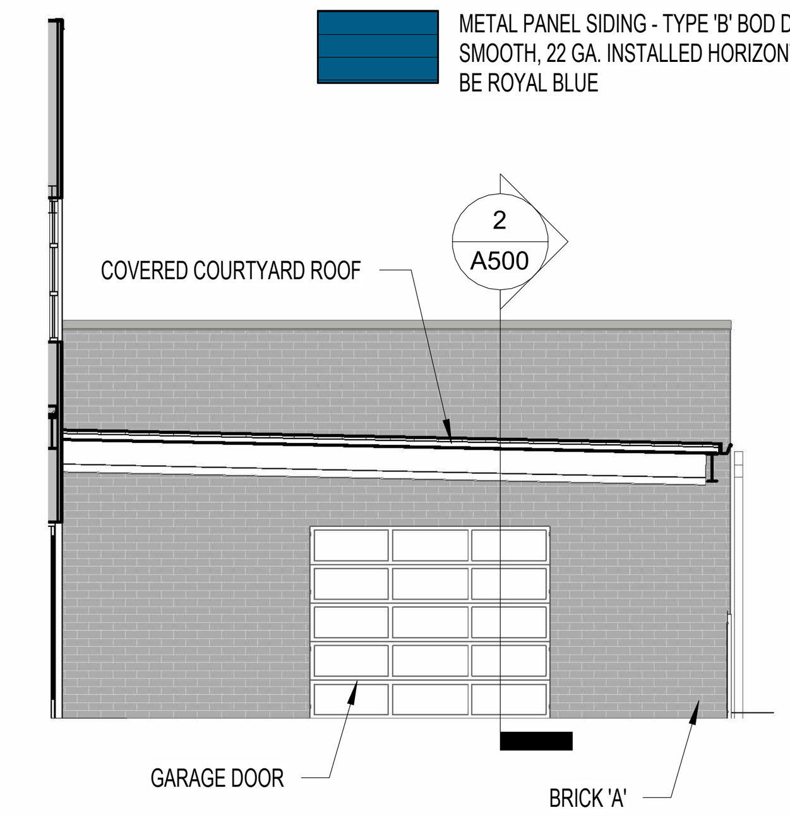
B. METAL PANEL SIDING - TYPE 'B' MATCH MORIN #A-12-0 SMOOTH, 22 GA. INTALLED HORIZONTIAL. COLOR SHALL BE CUSTOM COLOR TO MATCH PANTONE BLUE.

C. BRICK - TYPE 'A'

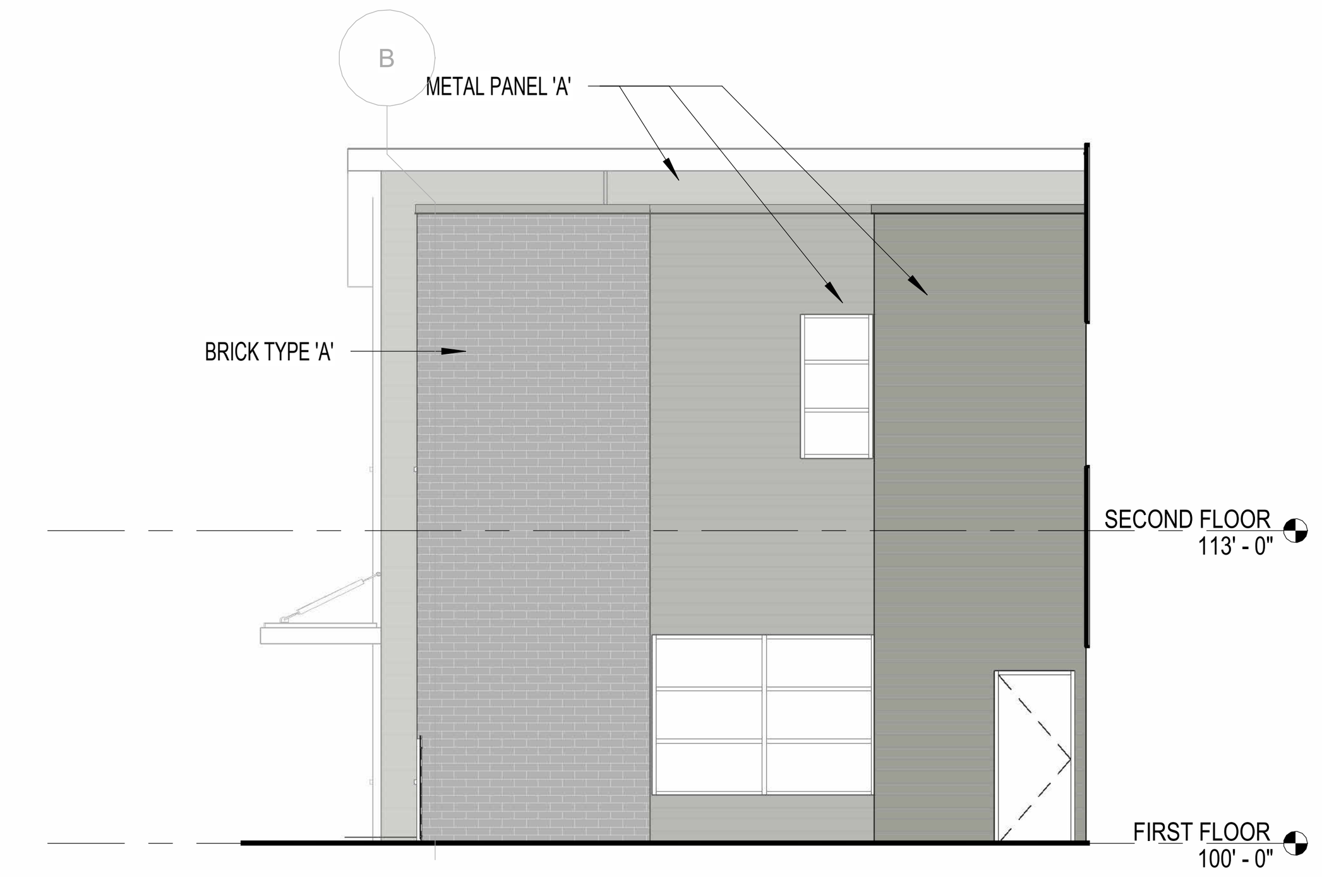
D. BRICK - TYPE 'B' THREE COLOR GRADIENT.

EXTERIOR ELEVATION MATERIAL LEGEND

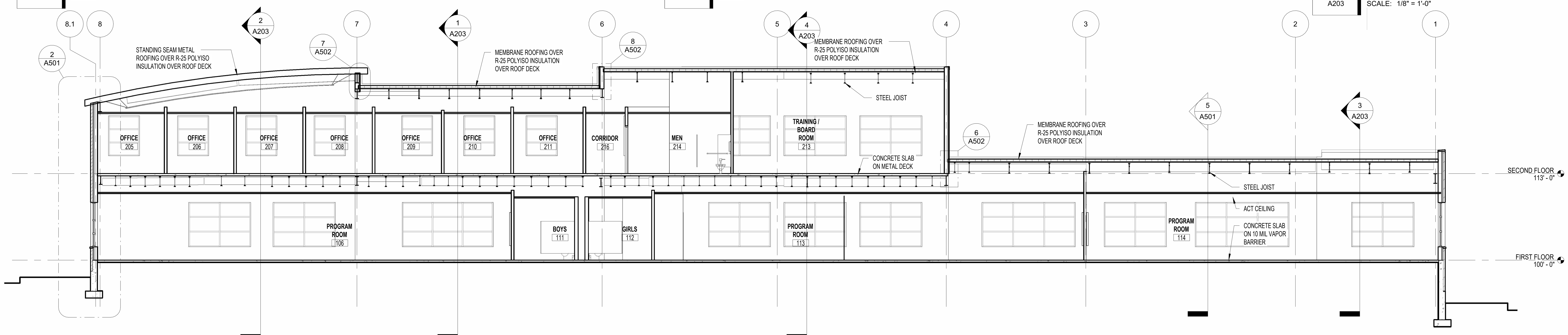
- BRICK 4; B.O.D YANKEE HILL, BEIGE VELOUR, UTILITY BRICK
- BRICK 3; B.O.D MATCH BRICK AT SHEAKLEY CLUB, 4100 GLENWAY AVE
- BRICK 2; B.O.D YANKEE HILL, METRO IRONSPOT VELOUR, UTILITY BRICK
- BRICK 1; B.O.D YANKEE HILL, CHARCOAL VELOUR, UTILITY BRICK
- METAL PANEL SIDING - TYPE 'A' BOD DMI FP1012 SMOOTH, 22 GA. INSTALL HORIZONTAL. COLOR SHALL BE SANDSTONE OR EQUAL
- METAL PANEL SIDING - TYPE 'B' BOD DMI FP1012 SMOOTH, 22 GA. INSTALLED HORIZONTAL. COLOR SHALL BE ROYAL BLUE



6 COURTYARD
A203 SCALE: 1/8" = 1'-0"



7 COURTYARD
A203 SCALE: 1/8" = 1'-0"



5 BUILDING SECTION
A203 SCALE: 1/8" = 1'-0"

emboss
EmbossDesign.com
(859)431-8612
906 Monmouth Street, Newport, KY 41071

STATE OF OHIO REGISTERED ARCHITECT EMMA ADKISSON No. ARC.2118357

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI PRICE HILL TEEN CENTER & CORPORATE OFFICES

1205 Dewey Ave, Cincinnati, OH 45205

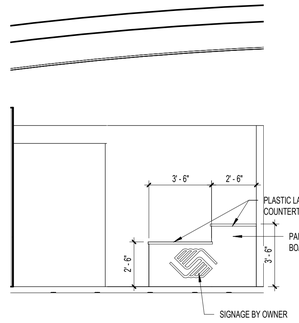
NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

BUILDING SECTIONS

21-052

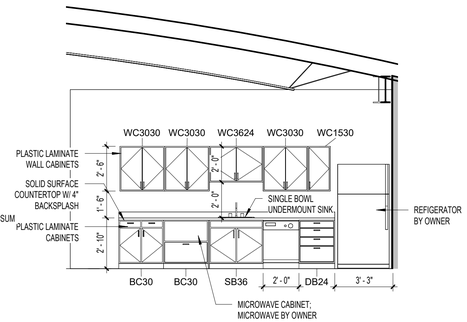
A203

PRINT DATE: 2/21/2024 4:46:12 PM



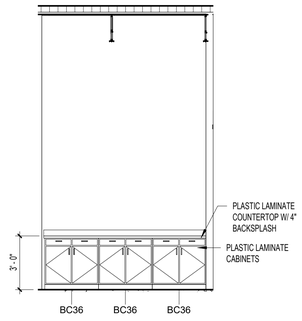
10 OFFICE LOBBY 201

A300 SCALE: 1/4" = 1'-0"



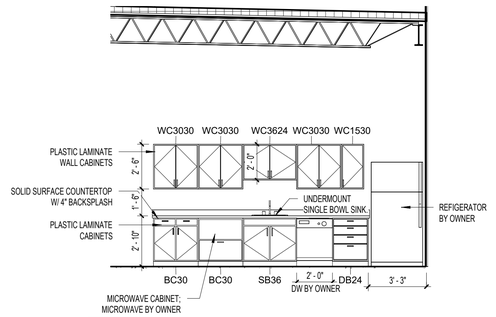
11 KITCHENETTE 204

A300 SCALE: 1/4" = 1'-0"



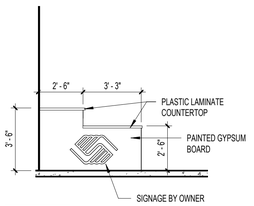
12 TRAINING 213

A300 SCALE: 1/4" = 1'-0"



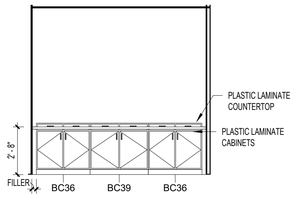
13 KITCHENETTE 117

A300 SCALE: 1/4" = 1'-0"



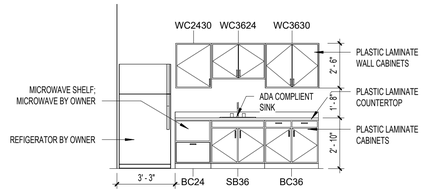
6 TEEN LOBBY 102

A300 SCALE: 1/4" = 1'-0"



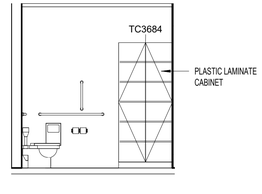
7 TEEN LOBBY 102

A300 SCALE: 1/4" = 1'-0"



8 PROGRAM RM 106

A300 SCALE: 1/4" = 1'-0"



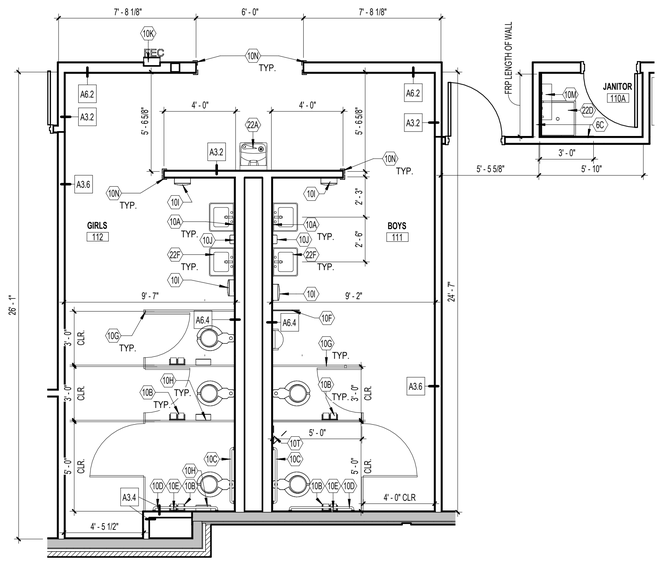
9 STAFF RR 118

A300 SCALE: 1/4" = 1'-0"

WALL TYPES		
Type Mark	Description	Fire Rating
A3.2	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A3.4	5/8" GYPSUM BOARD (ONE SIDE) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING OR TO STRUCTURE WHERE EXPOSED	-
A3.6	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING. BRACE TO STRUCTURE ABOVE AT 48" O.C .ALTERNATING DIRECTION), TYP. WALL UNLESS NOTED OTHERWISE	-
A3.6A	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" . FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO STRUCTURE ABOVE	-
A6.2	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING. BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A6.4	5/8" GYPSUM BOARD (ONE SIDES) OVER 6" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING BRACE TO STRUCTURE ABOVE AT 48" O.C. (ALTERNATING DIRECTION)	-
A6.6	5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
A6.6A	5/8" GYPSUM BOARD (BOTH SIDES) OVER 3-5/8" x 20 GA. METAL STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO STRUCTURE ABOVE.	-
C1.2	NEW FURRING: 5/8" GYPSUM BOARD (ONE SIDE) OVER 7/8" X 20 GA. HAT CHANNELS AT 16" O.C.	-
C2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 1-5/8"" x 20 GA. METAL STUDS AT 16" . PARTITION SHALL EXTEND 6" ABOVE FINISH CEILING	-
M3	8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	1
M3.1	(1) HOUR FIRE RATED PARTITION SIMILAR TO U.L. #U905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	1
M.3	8" CONCRETE MASONRY BLOCK WALL	-

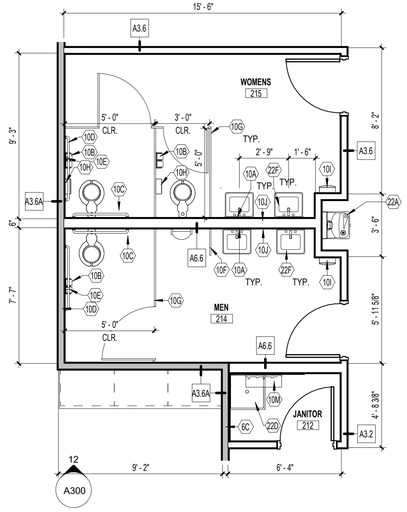
SHEET KEYNOTES

6C	PROVIDE GLASS-FIBER-REINFORCED PANELING (FRP). EXTEND PANELS MINIMUM 4'-0" ABOVE FINISHED FLOOR.
10A	18" X 30" MIRROR CENTERED OVER SINK.
10B	TOILET TISSUE DISPENSER.
10C	36" GRAB BAR.
10D	42" GRAB BAR.
10E	18" VERTICAL GRAB BAR.
10F	URINAL SCREEN.
10G	FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITION.
10H	SANITARY NAPKIN DISPOSAL UNIT.
10I	SURFACE MOUNTED PAPER TOWEL DISPENSER.
10J	SURFACE MOUNTED SOAP DISPENSER.
10K	FIRE EXTINGUISHER IN SEMI RECESSED FIRE EXTINGUISHER CABINET.
10M	MOP HOLDER.
10N	CORNER GUARD.
10T	LOCKABLE 12X12 ACCESSS PANEL.
22A	ADA COMPLIANT DRINKING FOUNTAIN AND BOTTLE FILLER; SEE PLUMBING DRAWINGS.
22D	MOP SINK. SEE PLUMBING DRAWINGS.
22F	ADA WALL HUNG SINK; SEE PLUMBING DRAWINGS.



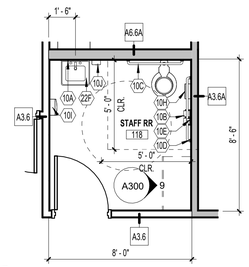
1 ENLARGED RESTROOM PLAN

A300 SCALE: 1/4" = 1'-0"



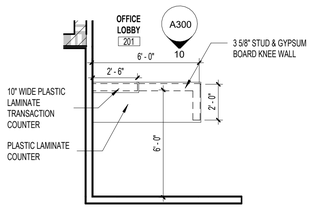
2 ENLARGED OFFICE RESTROOM PLAN

A300 SCALE: 1/4" = 1'-0"



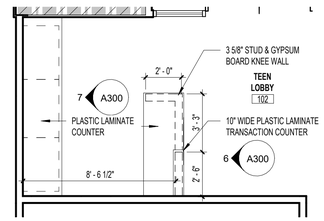
5 ENLARGED STAFF RR PLAN

A300 SCALE: 1/4" = 1'-0"



3 OFFICE LOBBY

A300 SCALE: 1/4" = 1'-0"



4 TEEN LOBBY

A300 SCALE: 1/4" = 1'-0"

EMBOSS

EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES

1205 Dewey Ave, Cincinnati, OH 45205

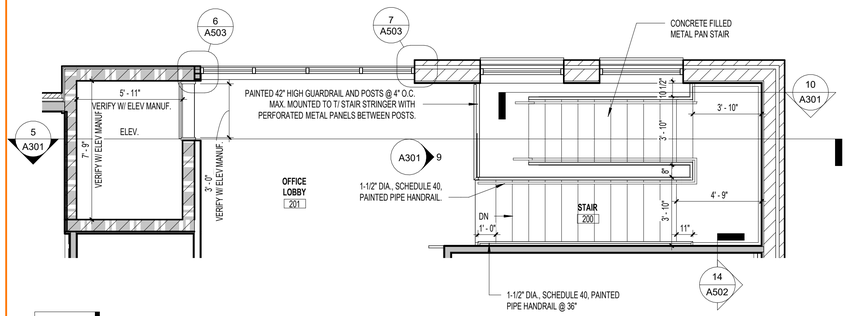
NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

ENLARGED PLANS & INTERIOR ELEVATIONS

21-052

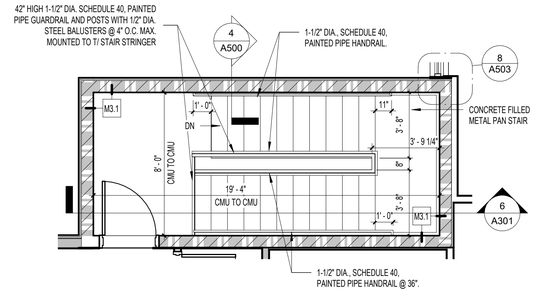
A300

PRINT DATE: 2/21/2024 4:46:14 PM



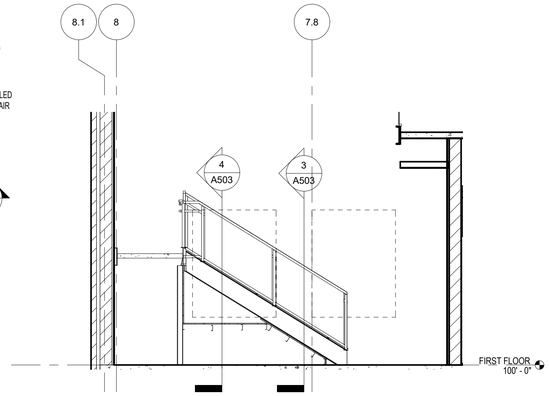
3 ENLARGED STAIR AND ELEVATOR PLAN

A301 SCALE: 1/4" = 1'-0"



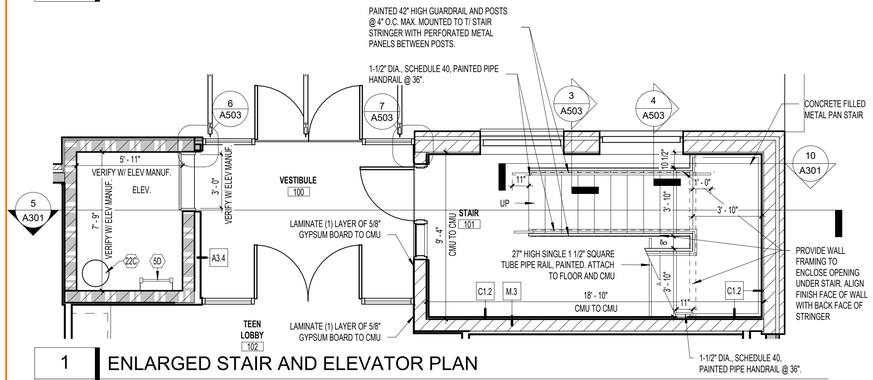
4 ENLARGED STAIR PLAN

A301 SCALE: 1/4" = 1'-0"



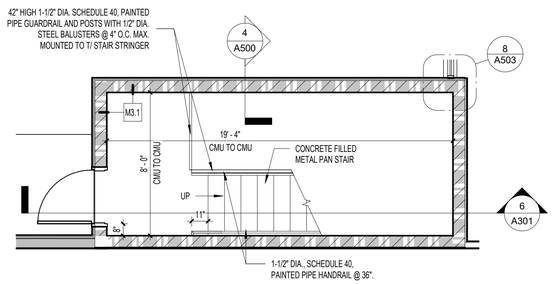
10 STAIR SECTION

A301 SCALE: 1/4" = 1'-0"



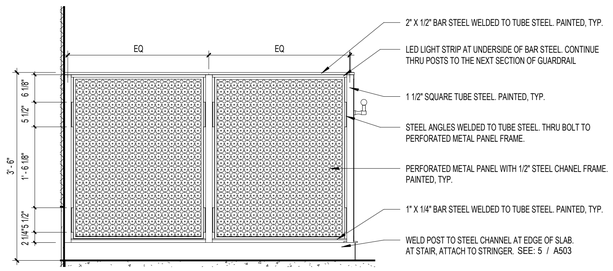
1 ENLARGED STAIR AND ELEVATOR PLAN

A301 SCALE: 1/4" = 1'-0"



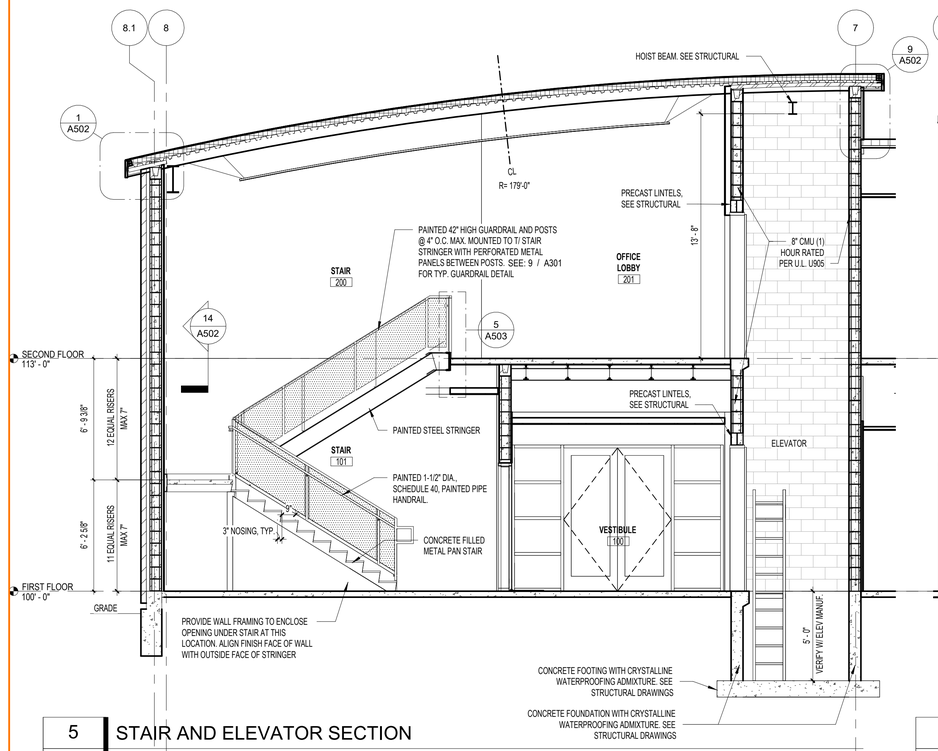
2 ENLARGED STAIR PLAN

A301 SCALE: 1/4" = 1'-0"



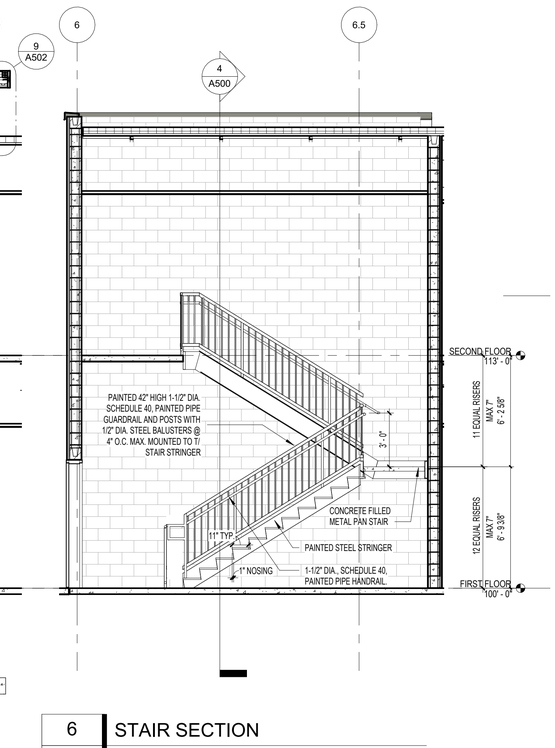
9 TYP. GUARDRAIL AT OPEN STAIR

A301 SCALE: 3/4" = 1'-0"



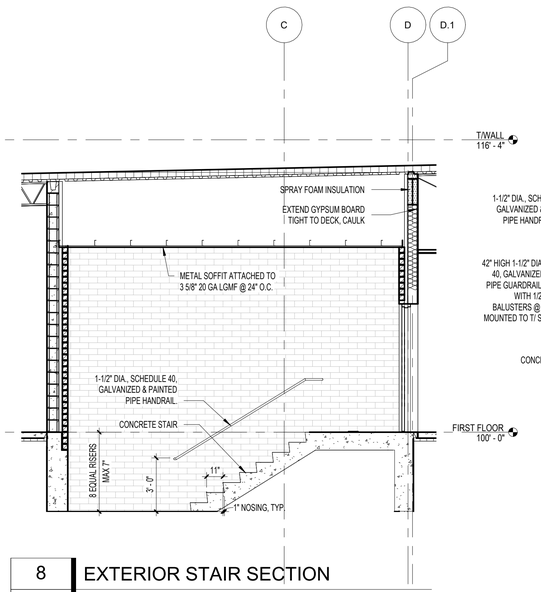
5 STAIR AND ELEVATOR SECTION

A301 SCALE: 1/4" = 1'-0"



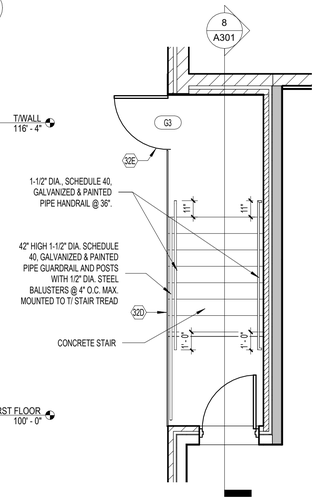
6 STAIR SECTION

A301 SCALE: 1/4" = 1'-0"



8 EXTERIOR STAIR SECTION

A301 SCALE: 1/4" = 1'-0"



7 Exterior stair

A301 SCALE: 1/4" = 1'-0"

PRINT DATE: 2/21/2024 4:46:16 PM

EMBOSS
EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

ENLARGED STAIR & ELEVATOR PLANS & SECTIONS

21-052

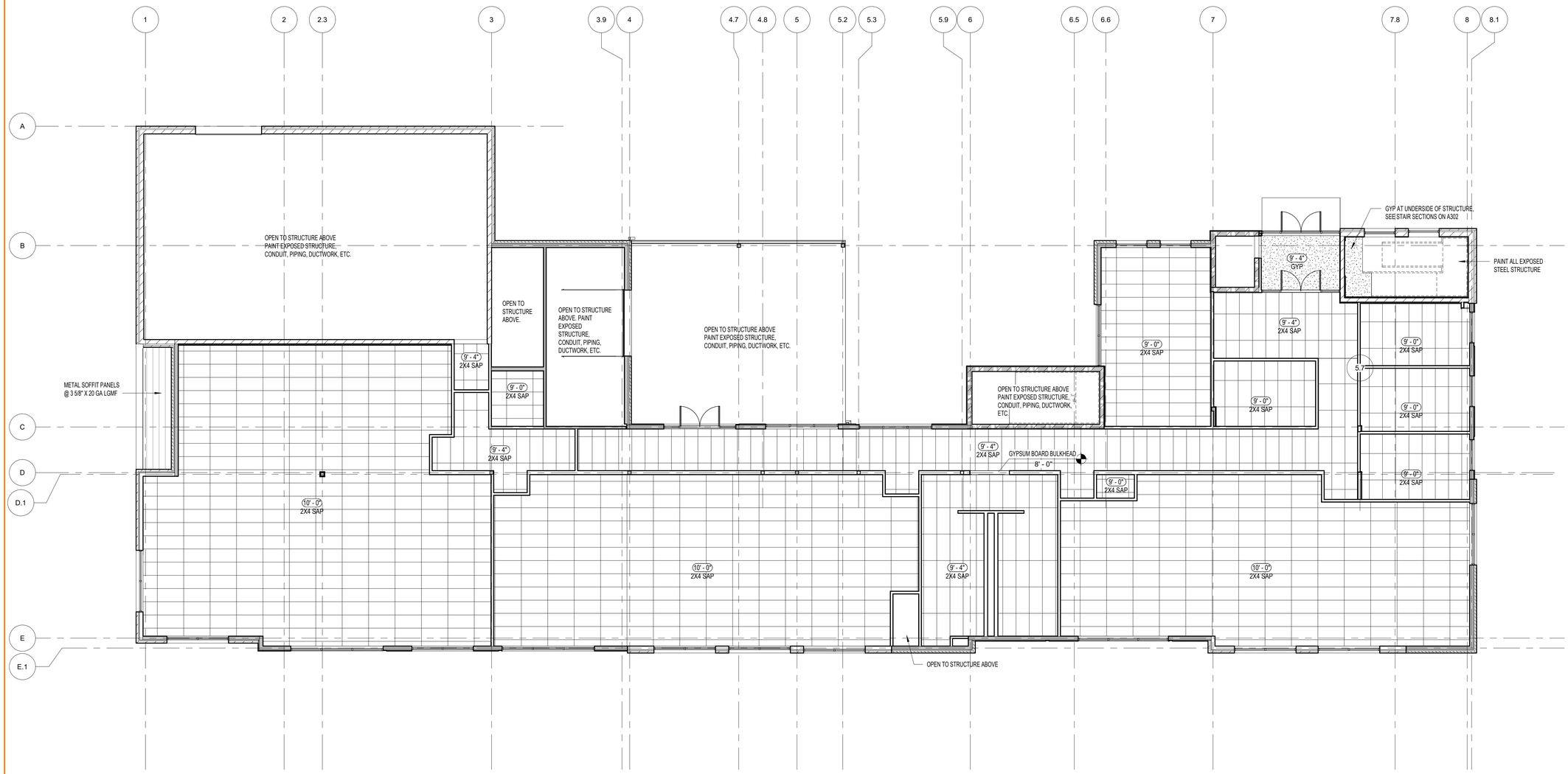
A301

CEILING PLAN - ABBREVIATIONS	
Note Number	Note Text
GYP	GYPSUM BOARD
SAP	SUSPENDED ACOUSTICAL PANEL

REFLECTED CEILING PLAN LEGEND

2 X 4 ACOUSTIC CEILING TILE

5/8" GYP. BD. CEILING



MAGNETIC PLAN

1 FIRST FLOOR REFLECTED CEILING PLAN

A400 SCALE: 1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

FIRST FLOOR REFLECTED CEILING PLAN

21-052

A400

PRINT DATE: 2/21/2024 4:46:17 PM

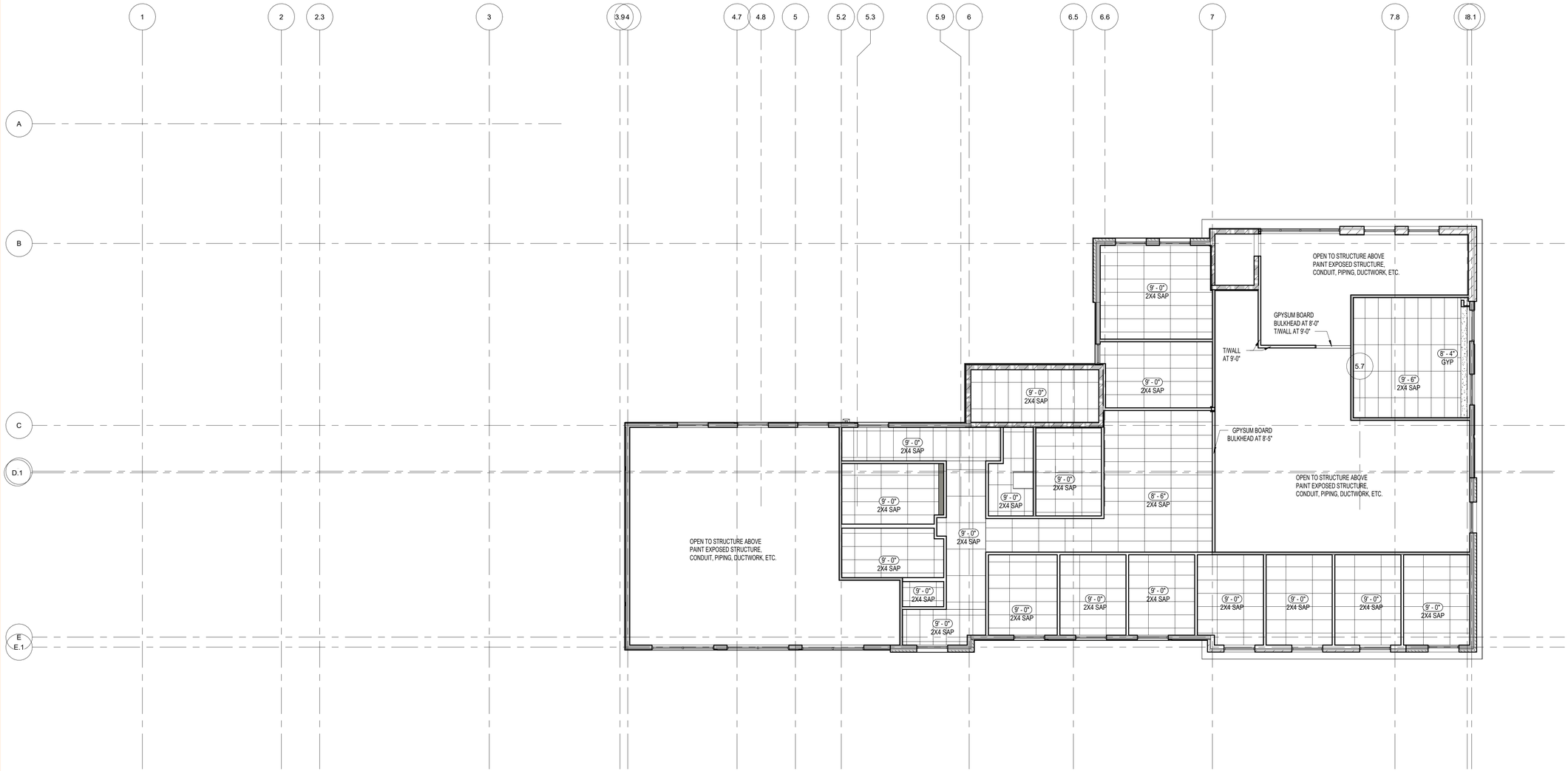
CEILING PLAN - ABBREVIATIONS

Note Number	Note Text
GYP	GYPSUM BOARD
SAP	SUSPENDED ACOUSTICAL PANEL

REFLECTED CEILING PLAN LEGEND

2 X 4 ACOUSTIC CEILING TILE

5/8" GYP. BD. CEILING



MAGNETIC PLAN

1 / A401 — SECOND FLOOR RCP

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

PRINT DATE: 2/21/2024 4:46:18 PM

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC 2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES

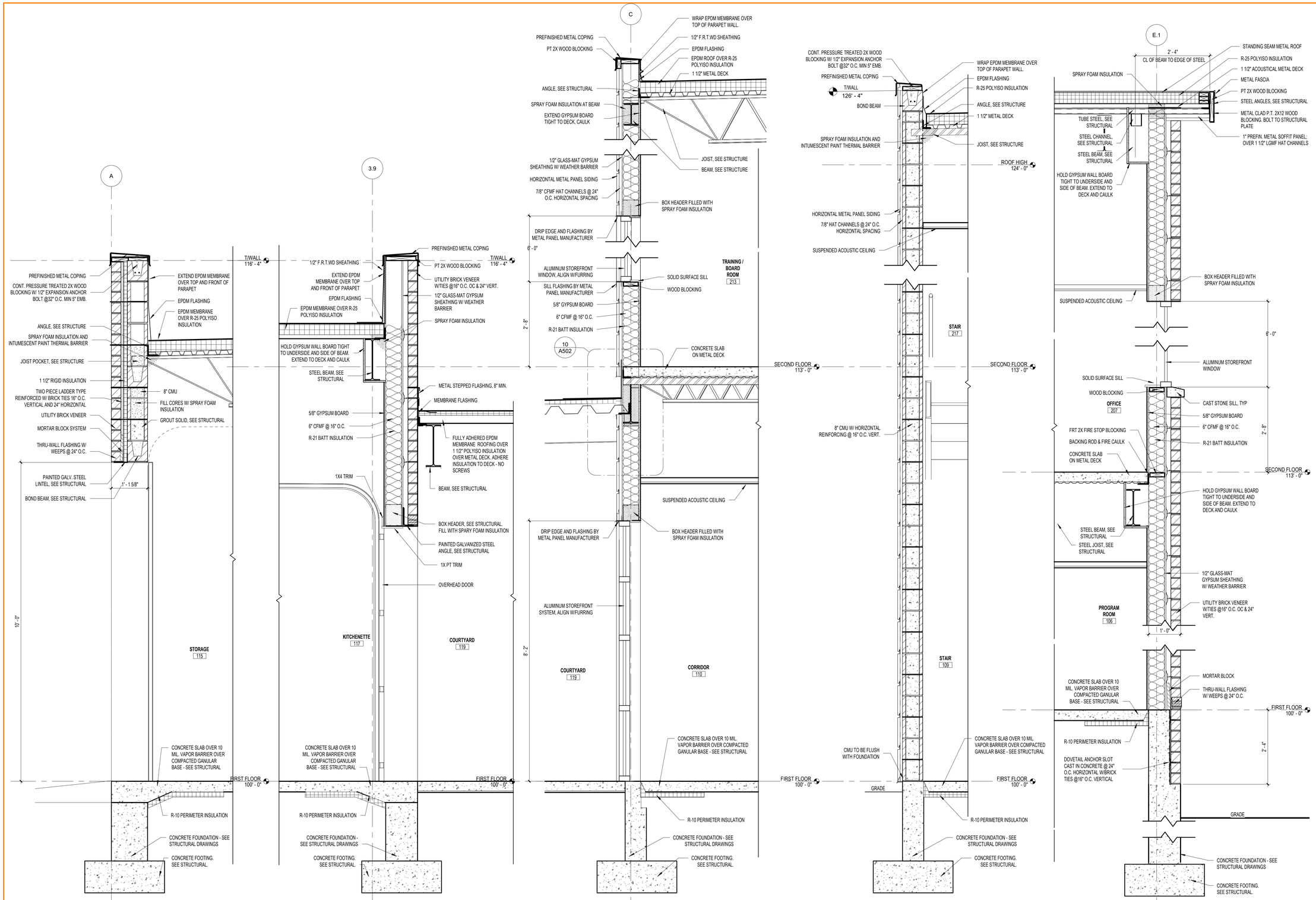
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

SECOND FLOOR REFLECTED CEILING PLAN

21-052

A401



1 | WALL SECTION
A500 | SCALE: 3/4" = 1'-0"

2 | WALL SECTION
A500 | SCALE: 3/4" = 1'-0"

3 | WALL SECTION
A500 | SCALE: 3/4" = 1'-0"

4 | WALL SECTION
A500 | SCALE: 3/4" = 1'-0"

5 | WALL SECTION
A500 | SCALE: 3/4" = 1'-0"

EMBOSS

EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES

1205 Dewey Ave, Cincinnati, OH 45205

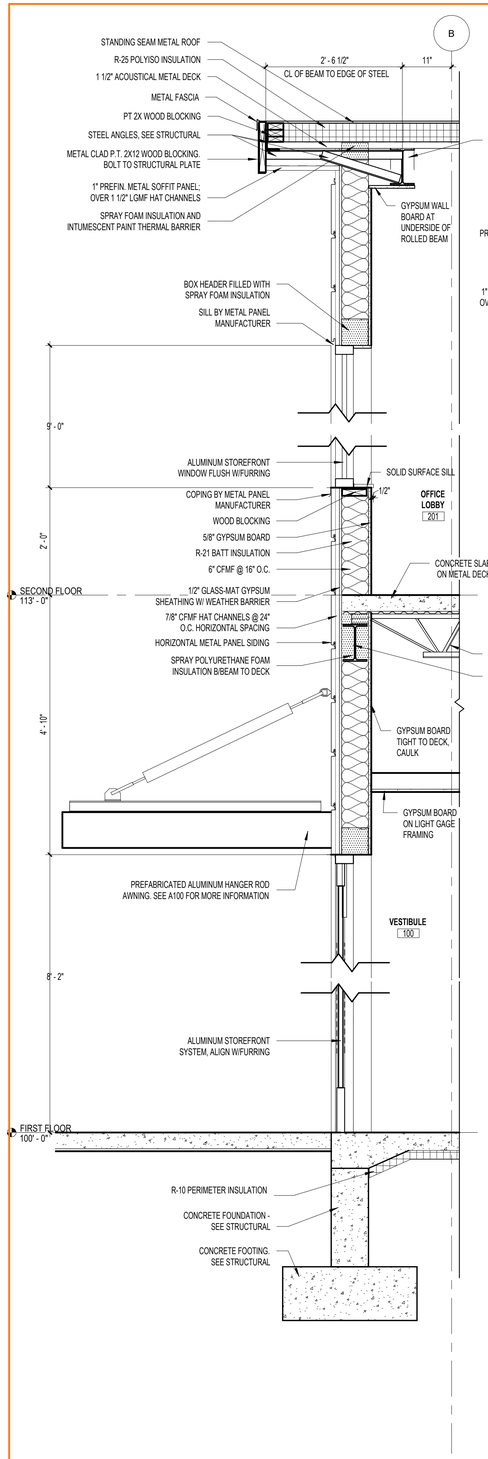
NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

WALL SECTIONS

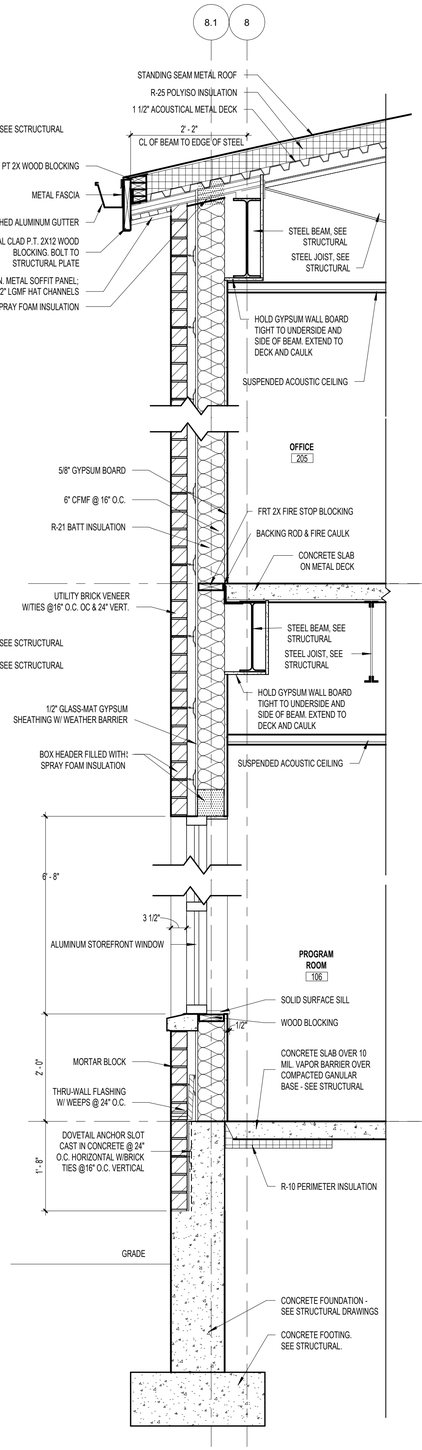
21-052

A500

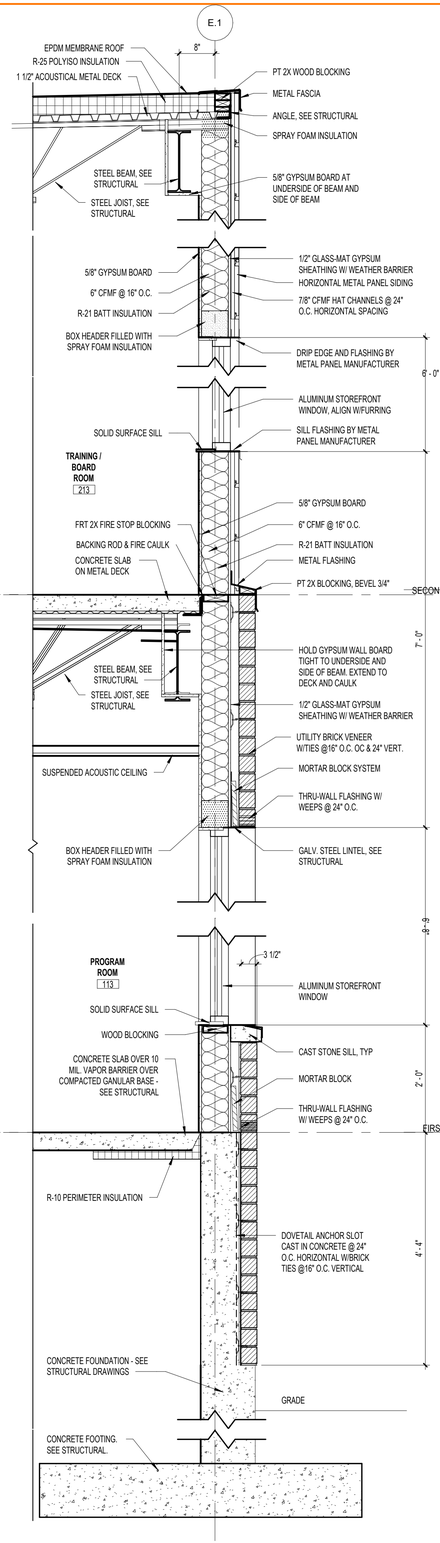
PRINT DATE: 2/21/2024 4:46:19 PM



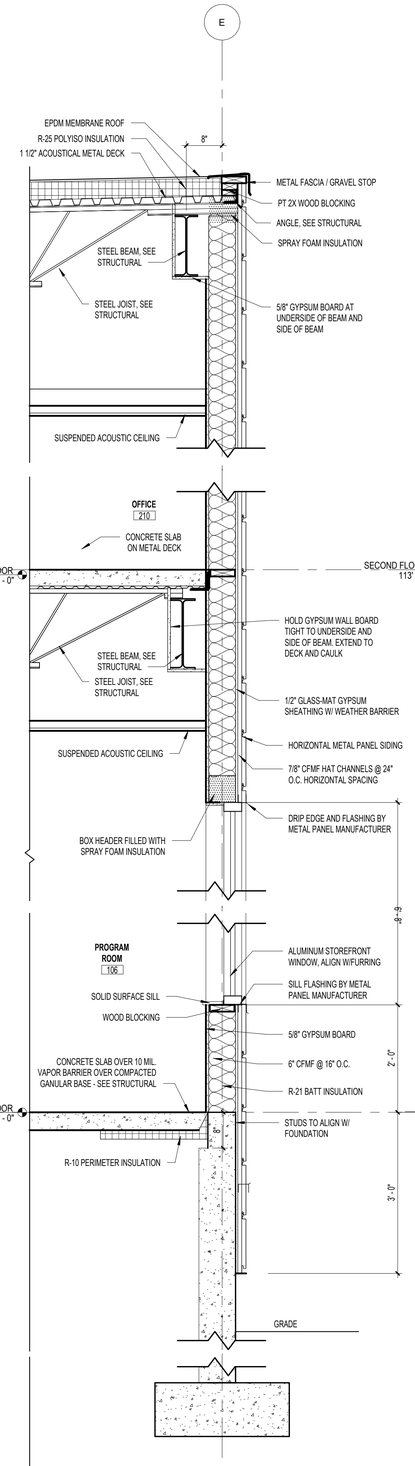
1 WALL SECTION
A501 SCALE: 3/4" = 1'-0"



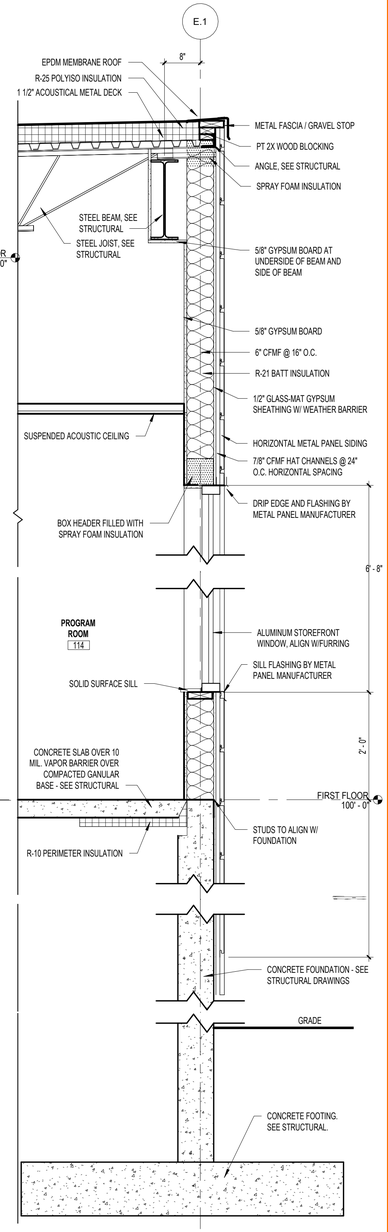
2 WALL SECTION
A501 SCALE: 3/4" = 1'-0"



3 WALL SECTION
A501 SCALE: 3/4" = 1'-0"



4 WALL SECTION
A501 SCALE: 3/4" = 1'-0"



5 WALL SECTION
A501 SCALE: 3/4" = 1'-0"

PRINT DATE: 2/21/2024 4:46:25 PM

emboss
EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071
STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT
Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

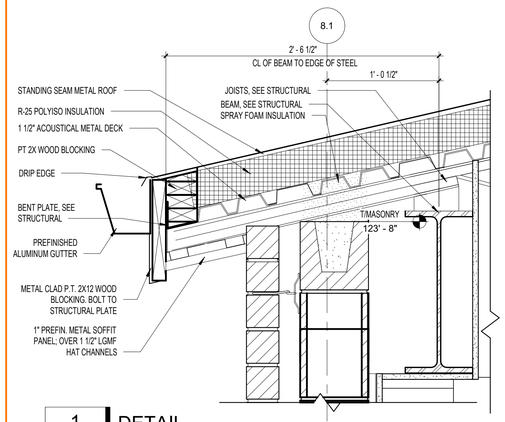
BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

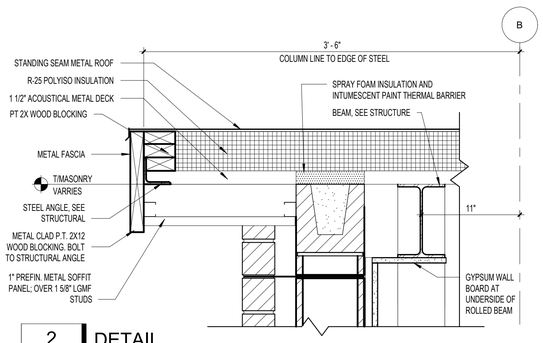
WALL SECTIONS

21-052

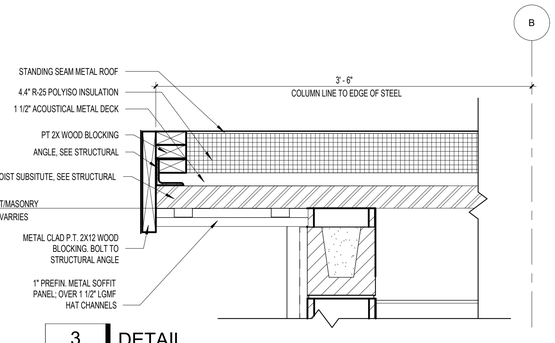
A501



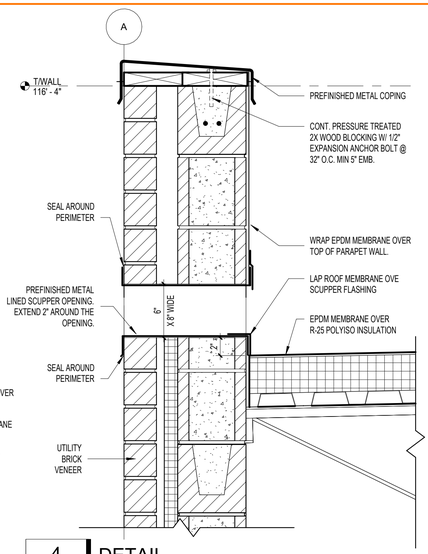
1 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



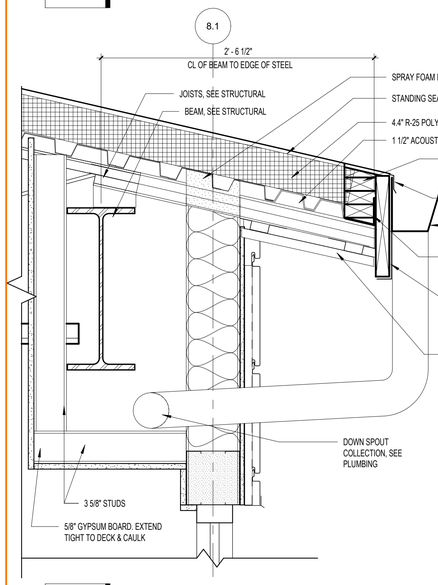
2 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



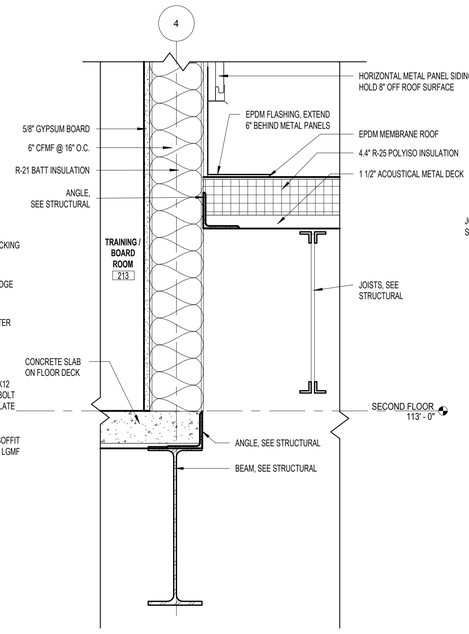
3 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



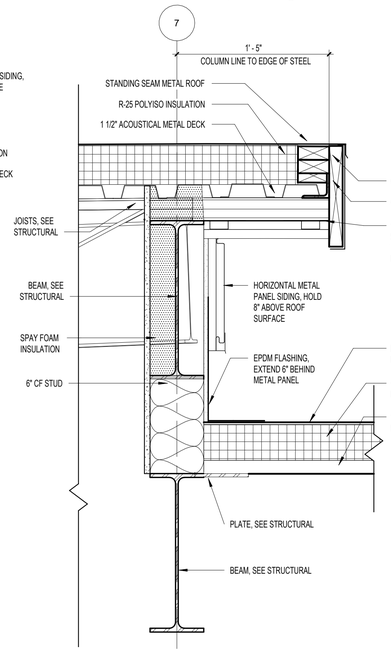
4 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



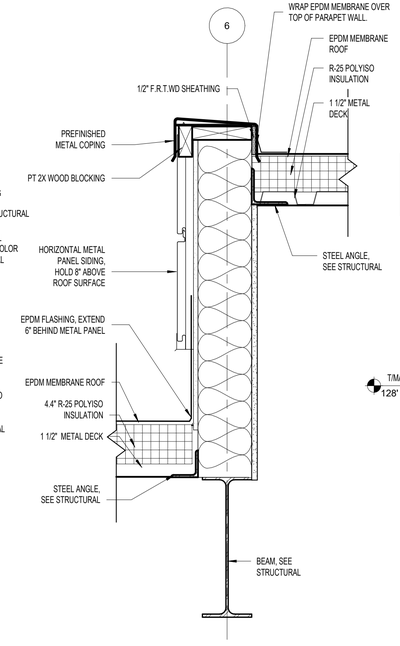
5 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



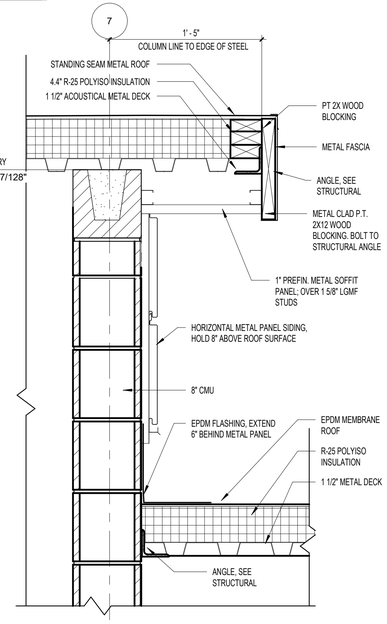
6 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



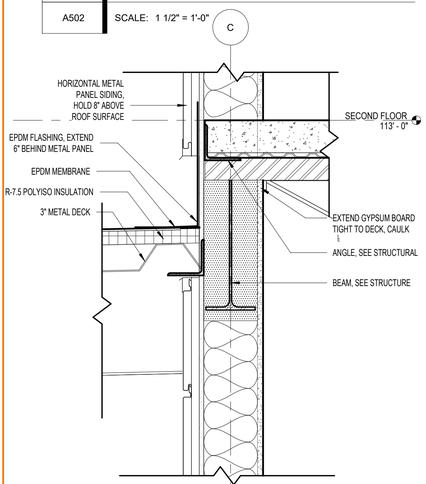
7 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



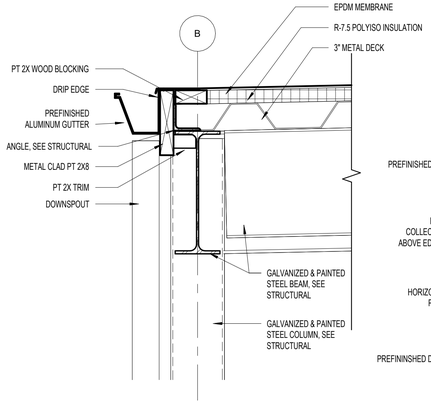
8 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



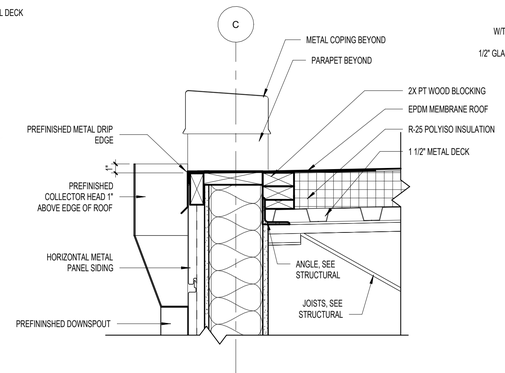
9 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



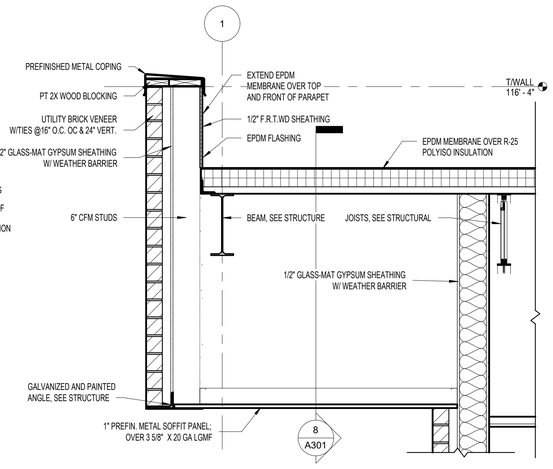
10 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



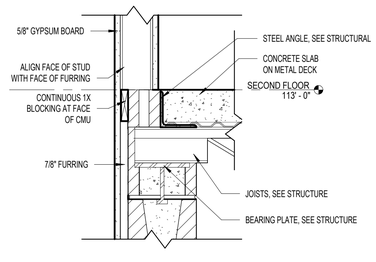
11 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



12 DETAIL
A502 SCALE: 1 1/2" = 1'-0"



13 DETAIL
A502 SCALE: 3/4" = 1'-0"



14 DETAIL
A502 SCALE: 1 1/2" = 1'-0"

emboss
EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC 2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

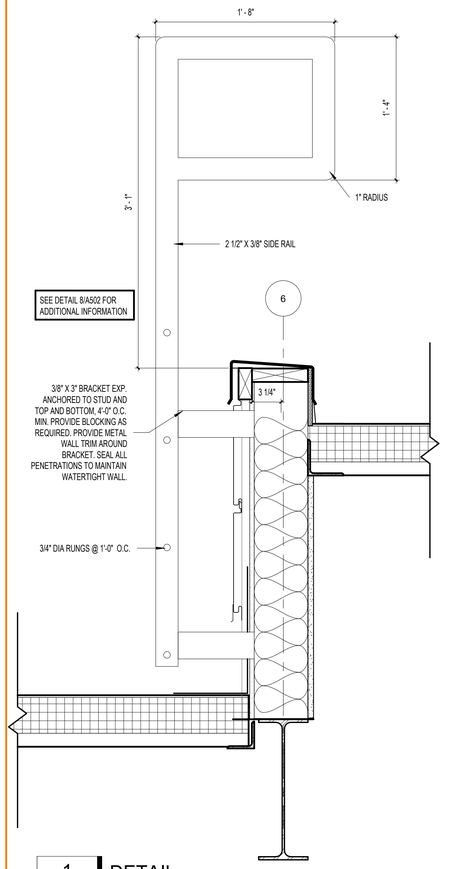
NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

SECTION DETAILS

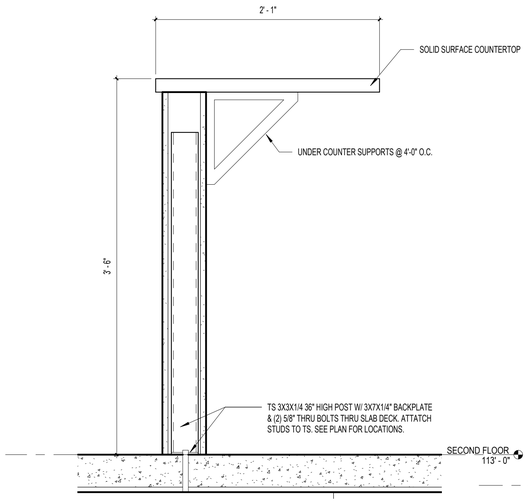
21-052

A502

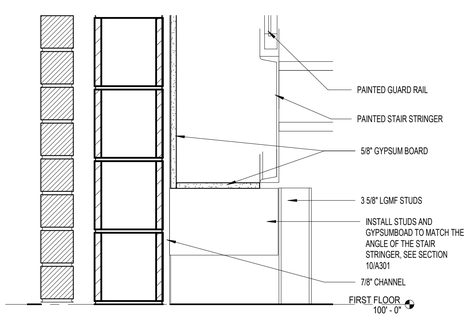
PRINT DATE: 2/21/2024 4:46:27 PM



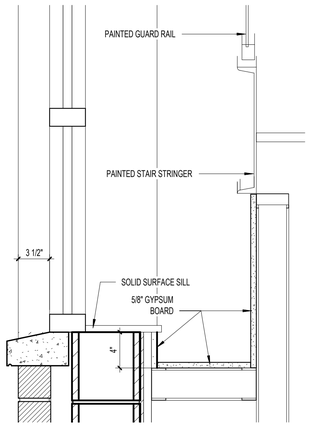
1 DETAIL
A503 SCALE: 1 1/2" = 1'-0"



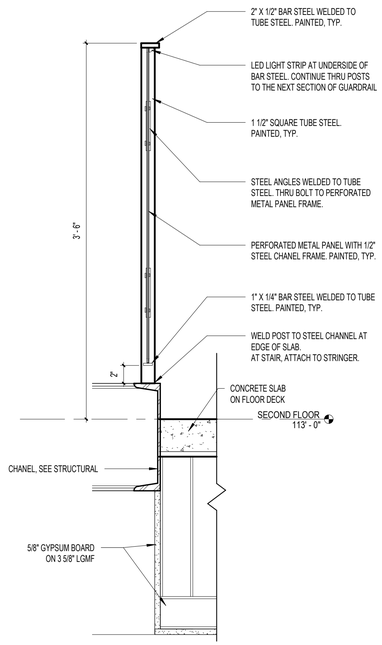
2 DETAIL
A503 SCALE: 1 1/2" = 1'-0"



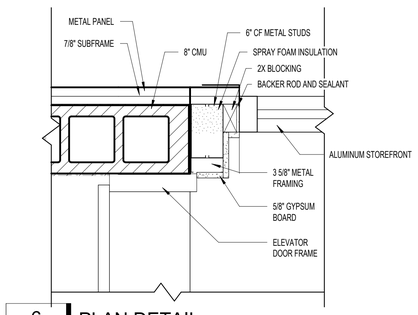
3 DETAIL
A503 SCALE: 1 1/2" = 1'-0"



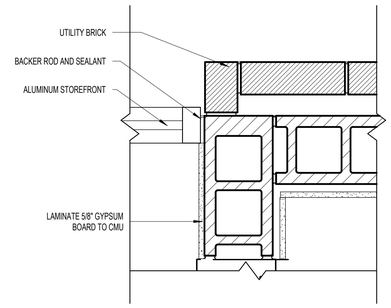
4 DETAIL
A503 SCALE: 1 1/2" = 1'-0"



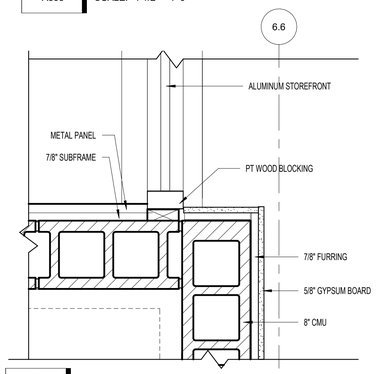
5 DETAIL
A503 SCALE: 1 1/2" = 1'-0"



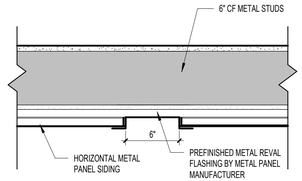
6 PLAN DETAIL
A503 SCALE: 1 1/2" = 1'-0"



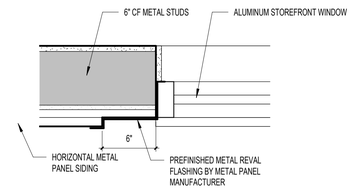
7 PLAN DETAIL
A503 SCALE: 1 1/2" = 1'-0"



8 PLAN DETAIL
A503 SCALE: 1 1/2" = 1'-0"



9 PLAN DETAIL
A503 SCALE: 1 1/2" = 1'-0"



10 Section 29
A503 SCALE: 1 1/2" = 1'-0"

PRINT DATE: 2/21/2024 4:46:28 PM

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson
Expiration Date:
No. ARC. 2118357
12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
2	BID DOCUMENTS	02/12/2024

PLAN & SECTION DETAILS

21-052

A503

GENERAL NOTES - DOOR & FRAME SCHEDULE

A. ALL DOORS SHALL BE MADE READILY OPERABLE FROM SIDE WHICH EGRESS IS TO BE MADE WITHOUT A KEY OR SPECIAL KNOWLEDGE
B. ALL LATCHSETS AND LOCKSETS ARE TO BE CYLINDRICAL SETS WITH ADA COMPLIANT LEVER HANDLES
C. PROVIDE WALL MOUNTED STOPS WHENEVER POSSIBLE.
D. ALL FIRE RATED DOORS SHALL BE LATCHING AND SELF OR AUTOMATIC CLOSING IN ACCORDANCE WITH SECTION 716.5.9 OF THE 2017 OHIO BUILDING CODE
E. HOLLOW METAL DOORS TO BE INSULATED & GALVANIZED AT EXTERIOR LOCATIONS
F. HOLLOW METAL FRAMES TO BE GALVANIZED AT EXTERIOR LOCATIONS

DOOR & FRAME ABBREVIATIONS

AL ALUMINUM
HM HOLLOW METAL
PF PREFINISHED
PT PAINT
S STAINED
WD WOOD

DOOR AND FRAME SCHEDULE

#	ROOM	DOOR # OF LEAFS	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	RATING (MINUTES)	HDWR SET	NOTES
100A	VESTIBULE	2	3' - 0"	8' - 0"	D6	AL	PF	S9	AL	PF				-	HW-2	
100B	VESTIBULE	2	3' - 0"	8' - 0"	D7	AL	PF	S5	AL	PF				-	HW-1	
101	STAIR	1	3' - 0"	7' - 0"	D5	WD	ST	F4	HM	PT				-	HW-3	
103	OFFICE	1	3' - 0"	7' - 0"	D1	HM	PT	F3	HM	PT				-	HW-4	
104	OFFICE	1	3' - 0"	7' - 0"	D1	HM	PT	F3	HM	PT				-	HW-4	
105	OFFICE	1	3' - 0"	7' - 0"	D1	HM	PT	F3	HM	PT				-	HW-4	
106A	PROGRAM ROOM	1	3' - 0"	7' - 0"	D3	HM	PT	F1	HM	PT				-	HW-5	
106B	PROGRAM ROOM	1	3' - 0"	7' - 0"	D3	HM	PT	F1	HM	PT				-	HW-5	
107	STORAGE	1	3' - 0"	7' - 0"	D1	HM	PT	F1	HM	PT				-	HW-6	
108	CONFERENCE	1	3' - 0"	7' - 0"	D7	AL	PF	S10	AL	PF				-	HW-7	
109	STAIR	1	3' - 0"	7' - 0"	D2	HM	PT	F2	HM	PT				-	HW-8	
110	CORRIDOR	2	3' - 0"	8' - 0"	D6	AL	PF	S5	AL	PF				-	HW-16	
110A	JANITOR	1	3' - 0"	7' - 0"	D1	HM	PT	F1	HM	PT				-	HW-9	
113A	PROGRAM ROOM	1	3' - 0"	7' - 0"	D3	HM	PT	F1	HM	PT				-	HW-5	
113B	PROGRAM ROOM	1	3' - 0"	7' - 0"	D3	HM	PT	F1	HM	PT				-	HW-5	
113C	WATER SERVICE	2	3' - 0"	7' - 0"	D1	HM	PT	F1	HM	PT				-	HW-10	
114A	PROGRAM ROOM	1	3' - 0"	7' - 0"	D3	HM	PT	F1	HM	PT				-	HW-5	
114B	PROGRAM ROOM	1	3' - 0"	7' - 0"	D2	HM	PT	F1	HM	PT				-	HW-11	
115A	STORAGE	1	3' - 0"	7' - 0"	D3	HM	PT	F1	HM	PT				-	HW-6	
115B	STORAGE	1	3' - 0"	7' - 0"	D1	HM	PT	F2	HM	PT				-	HW-13	
115C	STORAGE		10' - 0"	10' - 0"	OHD1										-	
116	ELECTRICAL	1	3' - 0"	7' - 0"	D1	HM	PT	F2	HM	PT				-	HW-6	
117A	KITCHENETTE	1	3' - 0"	7' - 0"	D3	HM	PT	F1	HM	PT				-	HW-14	
117B	COURTYARD		10' - 0"	8' - 0"	OHD2										-	
118	STAFF RR	1	3' - 0"	7' - 0"	D1	HM	PT	F1	HM	PT				-	HW-15	
120	CORRIDOR	2	3' - 0"	7' - 0"	D1	HM	PT	F1	HM	PT				-	HW-22	
203	CONFERENCE	1	3' - 0"	7' - 0"	D5	AL	PF	S10	AL	PF				-	HW-7	
205	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
206	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
207	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
208	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
209	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
210	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
211	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
212	JANITOR	1	3' - 0"	7' - 0"	D4	WD	ST	F1	HM	PT				-	HW-9	
213A	TRAINING / BOARD ROOM	1	3' - 0"	7' - 0"	D5	WD	ST	F1	HM	PT				-	HW-17	
214	MEN	1	3' - 0"	7' - 0"	D4	WD	ST	F1	HM	PT				-	HW-18	
215	WOMENS	1	3' - 0"	7' - 0"	D4	WD	ST	F1	HM	PT				-	HW-18	
217	STAIR	1	3' - 0"	7' - 0"	D2	HM	PT	F2	HM	PT				60 MIN.	HW-19	
218	STORAGE	1	3' - 0"	7' - 0"	D4	WD	ST	F1	HM	PT				-	HW-6	
219	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
221	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
222	OFFICE	1	3' - 0"	7' - 0"	D4	WD	ST	F3	HM	PT				-	HW-4	
G1		1	3' - 0"	4' - 0"										-	HW-20	RM-1
G2		1	3' - 0"	4' - 0"										-	HW-20	RM-1
G3		1	3' - 0"	6' - 0"										-	HW-21	RM-1

HARDWARE SETS

HW-1 HINGES, PANIC HARDWARE, ACCESS CONTROL HARDWARE (FREE EGRESS), CLOSER, THRESHOLD, WEATHERSTRIPPING, SWEEP
HW-2 HINGES, PUSH/PULL HARDWARE, CLOSER
HW-3 HINGES, PANIC HARDWARE, ACCESS CONTROL HARDWARE (FREE EGRESS), CLOSER
HW-4 HINGES, OFFICE LOCKSET, DOOR STOP
HW-5 HINGES, CLASSROOM LOCKSET, PANIC HARDWARE, DOOR STOP
HW-6 HINGES, STOREROOM LOCKSET, CLOSER, DOOR STOP
HW-7 HINGES, PASSAGE SET, DOOR STOP
HW-8 HINGES, PANIC HARDWARE, ACCESS CONTROL HARDWARE (FREE EGRESS) CLOSER, THRESHOLD, WEATHERSTRIPPING, SWEEP, DRIP CAP
HW-9 HINGES, STORAGE LOCKSET, DOOR STOP
HW10 HINGES, STOREROOM LOCKSET, TOP & BOTTOM FLUSH BOLT ON INACTIVE LEAF, OVERHEAD DOOR STOP
HW-11 HINGES, PANIC HARDWARE, LOCKSET, CLOSER, THRESHOLD, WEATHERSTRIPPING, SWEEP
HW-12 MANUAL OVERHEAD DOOR TRACK & HARDWARE, LOCK
HW-13 HINGES, STOREROOM LOCKSET, CLOSER, THRESHOLD, WEATHERSTRIPPING, SWEEP, DRIP CAP
HW-14 HINGES, OFFICE LOCKSET, CLOSER, DOOR STOP
HW-15 HINGES, PRIVACY LOCKSET, CLOSER, DOOR STOP
HW-16 HINGES, LOCKSET, PANIC HARDWARE, CLOSER, THRESHOLD, WEATHERSTRIPPING, SWEEP
HW-17 HINGES, PASSAGE SET, PANIC HARDWARE, DOOR STOP
HW-18 HINGES, PASSAGE SET, CLOSER, DOOR STOP
HW-19 HINGES, PANIC HARDWARE, CLOSER, DOOR STOP
HW-20 COURTYARD GATES - SELF-CLOSING, HINGES, PANIC HARDWARE, LATCHSET
HW-21 GATE AT PROGRAM ROOM 114 - SELF-CLOSING HINGES, PANIC HARDWARE - NO EXTERIOR HARDWARE
HW-22 HINGES, PANIC HARDWARE, CLOSER, MAGNETIC HOLD OPEN

REMARKS LEGEND

RM-1:GATE PROVIDED BY FENCING SUBCONTRACTOR; HARDWARE PROVIDED BY HARDWARE CONTRACTOR

GENERAL NOTES - FINISHES

A. FINISHES SHALL COMPLY WITH 2017 OHIO BUILDING CODE
B. FINISHES IN CLOSETS SHALL MATCH THAT OF THE ROOM WITH WHICH THEY ARE ASSOCIATED
C. LOW TRANSITION STRIPS SHALL BE USED BETWEEN DIFFERING FLOORING MATERIALS

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
100	VESTIBULE	F4	B1	W1	C2	
101	STAIR	F1; F3	B1	W1	C2, C3	RM-1; RM-2
102	TEEN LOBBY	F1	B1	W1	C1	
103	OFFICE	F5	B1	W1	C1	
104	OFFICE	F5	B1	W1	C1	
105	OFFICE	F5	B1	W1	C1	
106	PROGRAM ROOM	F1	B1	W1	C1	
107	STORAGE	F1	B1	W1	C1	
108	CONFERENCE	F5	B1	W1	C1	
109	STAIR	F1; F3	B1	W2	C3	RM-2
110	CORRIDOR	F1	B1	W1	C1	
110A	JANITOR	F6	B1	W1	C1	
111	BOYS	F2	B2	W1	C1	
112	GIRLS	F2	B2	W1	C1	
113	PROGRAM ROOM	F1	B1	W1	C1	
113A	WATER SERVICE	F6	B1	W1	-	
114	PROGRAM ROOM	F1	B1	W1	C1	
115	STORAGE	F6	B1	W1	C3	
116	ELECTRICAL	F6	B1	W1	-	
117	KITCHENETTE	F1	B1	W1	C3	
118	STAFF RR	F2	B2	W1	C1	
120	CORRIDOR	F1	B1	W1	C1	
200	STAIR	F3	B1	W1	C3	RM-2
201	OFFICE LOBBY	F5	B1	W1	C3	
202	OPEN OFFICE	F5	B1	W1	C1, C3	RM-1
203	CONFERENCE	F5	B1	W1	C1	
204	KITCHENETTE	F1	B1	W1	C3	
205	OFFICE	F5	B1	W1	C1	
206	OFFICE	F5	B1	W1	C1	
207	OFFICE	F5	B1	W1	C1	
208	OFFICE	F5	B1	W1	C1	
209	OFFICE	F5	B1	W1	C1	
210	OFFICE	F5	B1	W1	C1	
211	OFFICE	F5	B1	W1	C1	
212	JANITOR	F6	B1	W1	C1	
213	TRAINING / BOARD ROOM	F5	B1	W1	C1	
214	MEN	F7	B3	W1	C1	
215	WOMENS	F7	B3	W1	C1	
216	CORRIDOR	F5	B1	W1	C1	
217	STAIR	F1; F3	B1	W2	C1	RM-2
218	STORAGE	F6	B1	W1	C1	
219	OFFICE	F5	B1	W1	C1	
220	OFFICE	F5	B1	W1	C1	
221	OFFICE	F5	B1	W1	C1	
222	COPY / PRINT	F5	B1	W1	C3	

FINISH LEGEND

FLOOR:
F1 - LUXARY VINYL TILE
F2 - EPOXY FLOORING
F3 - LUXARY VINYL TILE @ LANDINGS. RUBBER TREADS AND RISERS ON STAIRS
F4 - WALK-OFF CARPET TILE
F5 - CARPET TILE
F6 - SEALED CONCRETE
F7 - CERAMIC TILE

BASE:
B1 - 4" HIGH RESILIENT BASE
B2 - EPOXY COVE BASE - INTEGRAL W/FLOORS
B3 - CERAMIC TILE BASE

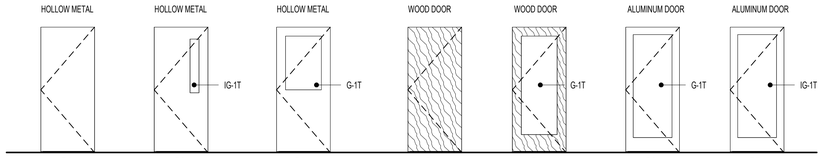
WALL:
W1 - PAINTED GYPSUM BOARD
W2 - FILLED AND PAINTED CMU

CEILING:
C1 - SUSPENDED ACOUSTIC PANEL CEILING
C2 - PAINTED GYPSUM BOARD
C3 - PAINT EXPOSED STRUCTURE, DUCT, PIPING, CONDUIT, ETC.

REMARKS LEGEND

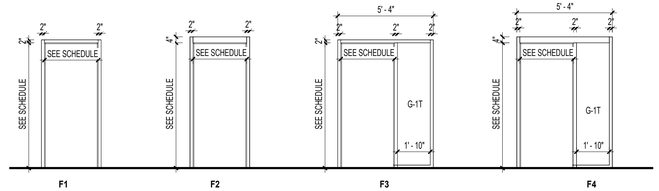
RM-1 SEE RCP FOR EXTENT OF CEILING IN SPACE

RM-2 PAINT STRINGERS



1 DOOR TYPES

A600 SCALE: 1/4" = 1'-0"

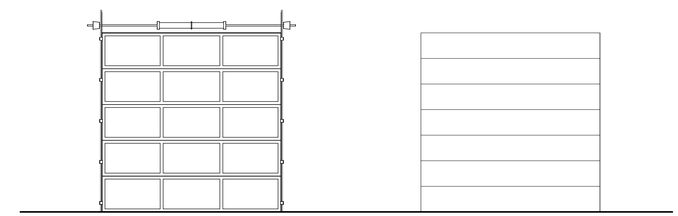


GLASS TYPE LEGEND

MARK	DESCRIPTION
G-1	1/4" CLEAR GLASS
G-1T	1/4" CLEAR GLASS, TEMPERED
IG-1	1" INSULATING GLASS
IG-1T	1" INSULATING GLASS, TEMPERED

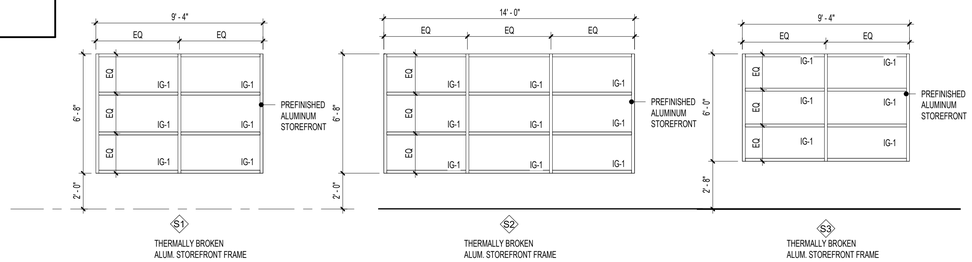
2 FRAME TYPES

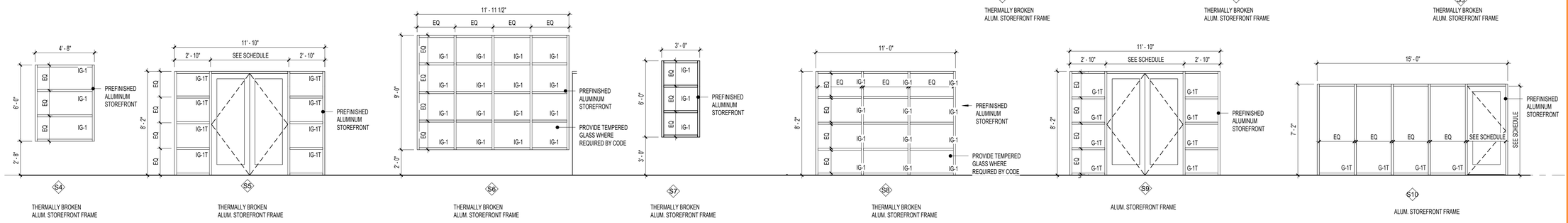
A600 SCALE: 1/4" = 1'-0"



3 OVERHEAD DOOR TYPES

A600 SCALE: 1/4" = 1'-0"





EMBOSS
EmbossDesign.com 906 Monmouth Street,
(859)431-8612 Newport, KY 41071

STATE OF OHIO REGISTERED EMMA ADKISSON No. ARC.2118357 REGISTERED ARCHITECT

Emma Adkisson No. ARC. 2118357
Expiration Date: 12/31/2025

BOYS & GIRLS CLUB OF GREATER CINCINNATI
PRICE HILL TEEN CENTER & CORPORATE OFFICES
1205 Dewey Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID DOCUMENTS	02/12/2024

SCHEDULES

21-052

A600

PRINT DATE: 2/21/2024 4:46:28 PM

GENERAL STRUCTURAL NOTES

COPIES OF PUBLICATIONS REFERENCED IN THESE GENERAL STRUCTURAL NOTES ARE AVAILABLE FOR REVIEW AT ADVANTAGE GROUP ENGINEERS, INC. CONTRACTORS UNFAMILIAR WITH THESE PUBLICATIONS MUST REVIEW THEM PRIOR TO CONSTRUCTION.

GOVERNING CODE

OHIO BUILDING CODE – 2017, BASED ON 2015 IBC

CLASSIFICATION OF THE BUILDING STRUCTURE:
RISK CATEGORY II, TABLE 1604.5

DESIGN LOADS

1. ROOF LOAD:
   - A. MINIMUM LIVE LOAD OR SNOW LOAD: 20 PSF*
   - B. ROOF MEMBRANE: 1 PSF
   - C. INSULATION: 3 PSF
   - D. METAL DECK: 2 PSF
   - E. JOIST FRAMING LOAD: 3 PSF
   - F. CEILING (5/8" DRYWALL): 3 PSF
   - G. SPRINKLERS: 3 PSF
   - H. DUCTS, LIGHTS, MISC. MECHANICAL: 5 PSF

*MINIMUM LIVE / SNOW LOAD GOVERNED BY MINIMUM SNOW LOAD, $P_m = I_s * P_g$

2. SNOW LOAD:
   - A. GROUND SNOW LOAD, P_g = 20 PSF.
   - B. FLAT ROOF SNOW LOAD, P_f = 14 PSF MODIFIED BY APPLICABLE BUILDING COEFFICIENTS.
   - C. MINIMUM ROOF SNOW LOAD, P_m = 20 PSF.
   - D. SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
   - E. SNOW EXPOSURE FACTOR, C_e = 1.0
   - F. THERMAL FACTOR, C_t = 1.0
   - G. COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

3. FLOOR LOAD:
   - A. LIVE LOAD: 70 + 20 PSF AT OFFICE
   - B. LIVE LOAD: 80 PSF AT CORRIDOR
   - C. SLAB AND DECK: 34 PSF
   - D. JOIST FRAMING LOAD: 3 PSF
   - E. CEILING (5/8" DRYWALL): 3 PSF
   - F. SPRINKLERS: 3 PSF
   - G. DUCTS, LIGHTS, MISC. MECHANICAL: 2 PSF

4. WIND LOAD:
   - A. MAIN WIND FORCE RESISTING SYSTEM: 115 MPH PER ASCE 7-10 (3-SECOND GUST - LOAD AND RESISTANCE FACTOR DESIGN).
   - B. WIND EXPOSURE: B
   - C. BASIC WIND VELOCITY PRESSURE, q_h= 22.4 PSF
   - D. INTERNAL GUST PRESSURE COEFFICIENT, GCp = 0.18 (ENCLOSED BUILDING).

5. SEISMIC LOAD:
   - A. BUILDING SITE CLASSIFICATION: D (ASSUMED)
   - B. SPECTRAL RESPONSE ACCELERATION, S_S = 14.4%
     - a. S_{DS} = 15.4%
   - C. SPECTRAL RESPONSE ACCELERATION, S_1 = 7.9%
     - a. S_{D1} = 12.6%
   - D. SEISMIC DESIGN CATEGORY, SDC = B
   - E. SEISMIC IMPORTANCE FACTOR, I_e = 1.0
   - F. SEISMIC FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
   - G. RESPONSE MODIFICATION FACTOR, R = 4.5 (TABLE 12.2-1 ASCE 7)
   - H. ANALYSIS PROCEDURE: ELFP
   - I. SEISMIC RESPONSE COEFFICIENT, C_s = 0.03 (EQUATION 12.8-2)
   - J. DESIGN BASE SHEAR, V = C_s * W (MAXIMUM)

6. CONCENTRATED LOADS:
   - A. 2000 POUNDS OVER 2.5 SQUARE FEET.

7. SPECIAL LOADS:
   - A. INTERIOR FINISH: 5 PSF HORIZONTAL LOAD.
   - B. HANDRAILS: 200 POUND CONCENTRATED LOAD AT ANY POINT, IN ANY DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.
   - C. GUARDRAILS:
     - a. TOP RAIL: 200 POUNDS CONCENTRATED AT ANY POINT IN ANY DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.
     - b. IN-FILL AREAS: 50 POUNDS APPLIED OVER A 1 SQUARE FOOT AREA.
   - D. IMPACT:
     - a. ELEVATORS PER SECTION 1607.8.1
     - b. MACHINERY PER SECTION 1607.8.2

SPECIAL INSPECTIONS

PER THE REQUIREMENTS OF CHAPTER 17 SECTION 1704.1 OF THE REFERENCED BUILDING CODE, A SPECIAL INSPECTION IS REQUIRED FOR THE PROPOSED BUILDING CONSTRUCTION. SPECIAL INSPECTION INVOLVES THE VERIFICATION OF COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND OR PLACEMENT OF COMPONENTS WITH THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTION IS PART OF THE PERMIT APPLICATION PROCESS FUNDED BY THE OWNER OR THE OWNER'S AGENT.

A STATEMENT OF SPECIAL INSPECTION LISTING THE REQUIREMENTS ALONG WITH A SCHEDULE OF TESTING, SUBMITTAL REVIEWS, AND FIELD OBSERVATION REQUIREMENTS HAS BEEN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH SECTION 106.1 OF THE BUILDING CODE. THIS STATEMENT INCLUDES A COMPLETE LIST OF MATERIAL AND ACTIVITY REQUIRING INSPECTION. IT IS THE RESPONSIBILITY OF ALL PARTIES TO BECOME FAMILIAR WITH THIS REQUIREMENT AND UNDERSTAND THE GUIDELINES AND REQUIREMENTS OF EACH PARTY INVOLVED WITH THE CONSTRUCTION. A COPY OF THE STATEMENT OF SPECIAL INSPECTION IS AVAILABLE UPON REQUEST. THE SPECIAL INSPECTOR COORDINATOR SHALL COORDINATE WITH THE OWNER, CONTRACTOR AND THE DESIGN PROFESSIONALS AND SCHEDULE THE INSPECTIONS ACCORDINGLY.

SUBSTITUTIONS, SUBMITTALS, AND RFI'S

1. CONTRACTOR SHALL SUBMIT ALL SUBSTITUTIONS FOR APPROVAL PRIOR TO CONSTRUCTION WITH THE FOLLOWING INFORMATION:
   - A. THE SCOPE, EXTENT, AND ALL LOCATIONS AFFECTED BY THE PROPOSED SUBSTITUTION.
   - B. SPECIFIC DRAWING OR SPECIFICATION REFERENCES FOR THE ORIGINAL PRODUCT OR SYSTEM SPECIFIED.
   - C. THE REASON FOR THE PROPOSED CHANGE.
   - D. COST SAVINGS AND/OR IMPACT ON THE SCHEDULE
   - E. IMPACT ON ANY GUARANTEES OR WARRANTIES ASSOCIATED WITH THE PRODUCT OR SYSTEM.
   - F. COORDINATION REQUIRED WITH OTHER TRADES OR ADJACENT MATERIALS.
   - G. ANY AND ALL DEVIATIONS FROM THE SPECIFIED REQUIREMENTS.

2. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR IN A TIMELY MANNER TO PROVIDE AN ADEQUATE AMOUNT OF TIME FOR REVIEW.
   - A. ALL SUBMITTALS MUST BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR REVIEW. ANY SHOP DRAWINGS RECEIVED DO NOT BEAR THE STAMP OF THE GENERAL CONTRACTOR AS WELL AS CLEAR EVIDENCE THAT THE SUBMITTAL HAS BEEN REVIEWED WILL BE REJECTED WITHOUT REVIEW.
   - B. REVIEW BY STRUCTURAL ENGINEER OF RECORD WILL BE FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND CONFORMANCE WITH THE DESIGN CONCEPT. THIS REVIEW DOES NOT IN ANYWAY RELIEVE THE CONTRACTOR AND/OR THE CONTRACTOR'S SUBCONTRACTORS FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM THE CONTRACT REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, PROPER FIT, QUALITIES OF THE MATERIALS, AND COORDINATION WITH OTHER TRADES AND SUPPLIERS.
   - C. IF CHANGES ARE MADE TO A PREVIOUSLY REVIEWED SUBMITTAL, DENOTE ALL REVISED AREAS WITH REVISION CLOUD AND TAGS.
   - D. STRUCTURAL SUBMITTAL REQUIREMENTS:

Submittal/Shop Drawing	Submittal	Calculations	PE/SE Seal & Signature
Concrete Mix – Conforming to ACI 318	For Review	N/a	N/a
Concrete Reinforcing	For Review	N/a	N/a
Masonry Block, Mortar, and Grout Spec & Strength	For Review	N/a	N/a
Masonry Reinforcing	For Review	N/a	N/a
Structural Steel	For Review	N/a	N/a
Open Web Steel Joist & Deck	For Review	N/a	N/a
Miscellaneous Steel	For Record	Required	Required
Cold Formed Steel (Non-Loadbearing)	For Review	Required	Required

- *For Review* denotes the contractor must submit to the design team for review. The contractor shall not fabricate or install until all design team comments have been resolved in writing.
- *For Record* denotes the contractor must submit to the design team for record. The contractor's engineer is responsible for all loading and coordination of loads to be resisted by the building's structural elements. Any load resisted by the building's structural elements must be approved by the EOR.
- *N/a* denotes not applicable.

3. REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN A TIMELY MANNER WHEN INFORMATION IS MISSING FROM THE CONSTRUCTION DOCUMENTS, INFORMATION IS CONFLICTING WITHIN THE CONSTRUCTION DOCUMENTS, OR IS AMBIGUOUS.
   - A. THE CONTRACTOR MUST USE DUE DILIGENCE IN ATTEMPTING TO FIND ANY ANSWER PRIOR TO SUBMITTING AN RFI.
   - B. IF THE INFORMATION REQUESTED IN AN RFI IS APPARENT FROM FIELD OBSERVATION, IS CONTAINED IN THE CONSTRUCTION DOCUMENTS, OR IS REASONABLY INFERABLE FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED RELATED TO ADDITIONAL SERVICES INCURRED DUE TO ANSWERING THE RFI.

CONSTRUCTION AND SAFETY

1. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.
3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
4. THE CONTRACTOR SHALL ONLY USE STRUCTURAL PLANS ISSUED AS "FOR CONSTRUCTION" OR ISSUES THEREAFTER. PRIOR ISSUES SHALL ONLY BE USED FOR PERMITTING OR BIDDING PURPOSES.

MISCELLANEOUS STRUCTURAL NOTES

1. THESE STRUCTURAL DRAWINGS DEPICT A STRUCTURAL SYSTEM AND THE MAJOR COMPONENTS OF THAT SYSTEM. MINOR ITEMS, INCLUDING BUT NOT LIMITED TO, POURSTOPS, DECK SUPPORT ANGLES, FRAMES AT FLOOR AND ROOF DECK OPENINGS, CFS AT ARCHITECTURAL FEATURES, ETC. SHALL BE SUPPLIED BY THE CONTRACTOR AS NEEDED TO PROVIDE A COMPLETE SYSTEM.
2. WHERE DETAILS ARE CALLED FOR IN ONE AREA OF THE BUILDING, THEY SHALL BE DUPLICATED AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
3. STRUCTURAL AND ARCHITECTURAL PLANS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS. CONTRACTORS, DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DIMENSIONS, PITCHES, ELEVATIONS, ETC. BEYOND THOSE NOTED AS NECESSARY TO THOROUGHLY DETAIL/FABRICATE THEIR WORK. CONTACT ARCHITECT WITH ANY DISCREPANCIES FOUND.

FOUNDATIONS

1. SOIL CONDITIONS:
   - A. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY TERRACON, DATED SEPTEMBER 8TH, 2023. THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST.
2. THE BOTTOM OF FOUNDATION ELEVATION INDICATED ARE FOR BIDDING PURPOSES AND MAY BE LOWERED TO SUIT SUB-SURFACE SOIL CONDITION. BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR FLOWABLE FILL CONCRETE (500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
3. FOOTINGS AND GRADE BEAMS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL.
4. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 1500 PSF BELOW STRIP FOOTINGS AND 1500 PSF BELOW ISOLATED COLUMN FOOTINGS.
5. LATERAL SOIL PRESSURES USED FOR DESIGN:
   - A. RETAINING WALLS: 45 PCF EQUIVALENT FLUID PRESSURE, TRIANGULAR DISTRIBUTION.
   - B. BASEMENT WALLS: (30 * HEIGHT OF WALL + 0.5 * SURCHARGE) PSF, RECTANGULAR DISTRIBUTION.
6. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
7. COMPACTION:
   - A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL CONSULTANT.
   - B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.
   - C. BACKFILL AGAINST FOUNDATION WALLS ALONG INTERIOR FACE OF FOUNDATION WALLS SHALL BE CLAYEY MATERIAL COMPACTED IN 6" LIFTS TO 95% STANDARD PROCTOR DENSITY OR CONCRETE WITH A COMPRESSIVE STRENGTH OF f'_c = 500 PSI.
   - D. BACKFILL ALONG EXTERIOR FACE OF BASEMENT OR ALONG RETAINING TYPE WALLS SHALL BE A WELL-GRADED GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY UP TO WITHIN 24 INCHES OF THE FINISHED GRADE. TOP 24" OF BACKFILL SHALL BE COMPACTED CLAYEY MATERIAL. AT THE BOTTOM OF THE GRANULAR MATERIAL, PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAINPIPE WITH POSITIVE DRAINAGE TO SUMP OR TO DAYLIGHT. AT EXTERIOR RETAINING WALLS, 4" DIAMETER WEEP HOLES AT 10'-0" ON CENTER MAXIMUM MAY BE INSTALLED IN LIEU OF PERFORATED FOUNDATION DRAIN.
   - E. BACKFILL ALONG EXTERIOR FACE OF SHALLOW WALL FOUNDATIONS TO BE COMPACTED CLAYEY MATERIAL; COMPACT TO 95% STANDARD PROCTOR.
   - F. FILL BELOW FLOOR SLABS TOP 12" OF SUBBASE BELOW INTERIOR FLOOR SLAB TO BE PROOF ROLLED TO 98% STANDARD PROCTOR DENSITY PRIOR TO PLACEMENT OF SLAB.
8. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO THE PLACEMENT OF FILL MATERIAL OR SLAB.
9. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED CLAYEY BACKFILL OR LEAN CONCRETE TO CREATE A DAM TO PREVENT ENTRY OF WATER.
10. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

CONCRETE

1. CONCRETE WORK AND TESTING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.
2. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R "COLD WEATHER CONCRETING".
3. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305R "HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND VELOCITY SHALL BE ENTERED INTO THE NOMOGRAPH OF THIS REFERENCE TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.
4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES.
5. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL.
6. MATERIALS (ALSO SEE CONCRETE MIX SCHEDULE):
   - A. REINFORCING STEEL: ASTM A615 OR ASTM 996 (AXLE ONLY) 60 KSI YIELD DEFORMED BARS AND ASTM A1064 MESH, FLAT SHEETS ONLY.
   - B. FLY ASH: ASTM C618, TYPE F OR C. FLY ASH-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 25% MAXIMUM.
   - C. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM.
   - D. HIGH RANGE WATER REDUCER (HRWR) ADMIXTURE: ASTM C494.
   - E. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 318. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
7. CONCRETE MIX SCHEDULE:

Application	f'_c @ 28 days (psi)	Air Content[1]	Max w/c ratio[2]	Max Agg. Size[1] (in)	F Class	S Class	W Class	C Class
Footings & Drilled Piers	3000	N/a	0.55	3/4	F0	S0	W0	C0
Foundation and Retaining Walls	4500	6% ± 1.5%	0.45	3/4	F2	S0	W1	C1
Interior Floor Slab on Grade[3]	4000	N/a	0.5	3/4	F0	S0	W0	C0
Exterior Flatwork (Plain Concrete)	4500	6% ± 1.5%	0.45	3/4	F3	S0	W1	C1
Elevated Slab (Interior)	4000	N/a	0.5	3/4	F0	S0	W0	C0

[1] - Where 3/8" maximum aggregate is preferred, adjust air entrainment to 7.5% ± 1.5% (if required).
[2] - Where air entrainment is not required by design, the contractor/supplier may choose to include air entrainment to improve placement or finish characteristics. Air entrainment is not permitted in normal weight concrete to receive a hard trowel finish and entrapped air shall not exceed 3%.
[3] - f'_c = 1800 psi @ 3 days.
[4] - Normal weight aggregate with 8%-18% retained on each sieve. Fly ash not permitted. f'_c = 1800 psi @ 3 days.
[5] - Cortec MCI required.
[6] - f'_c = 3000 psi @ 7 days.
[7] - Entrained air is not required provided walls are painted and exterior paint is maintained by the owner.

8. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF HRWR.
9. ALL REINFORCING BARS, EMBEDS, AND ANCHOR RODS SHALL BE PLACED WITHIN THE REQUIRED TOLERANCES AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. WORKING REINFORCING BARS, EMBEDS, AND ANCHOR RODS INTO WET CONCRETE (KNOWN AS "WET STICKING") IS PROHIBITED. IF NECESSARY, CONTRACTOR MAY PROVIDE ADDITIONAL REINFORCING BARS TO SECURELY TIE REINFORCING BARS, EMBEDS, AND ANCHOR RODS.
10. LAP SPLICE REINFORCING BARS 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
11. BAR CLEARANCES BETWEEN ADJACENT BARS AND FORMWORK SHALL BE AS NOTED ON THE DRAWINGS OR A MINIMUM AS PER ACI REQUIREMENTS.
12. AT CORNERS AND INTERSECTIONS OF FOOTINGS, WALLS, AND GRADE BEAMS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING WALL OR GRADE BEAM. BARS SHALL HAVE EMBEDMENT OF 30 BAR DIAMETERS (18" MINIMUM).
13. MACHINE TROWEL FINISH FLOOR SLAB AND CURE USING A METHOD RECOMMENDED BY ACI 302.1R (GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION) INCLUDING WATER CURING, WET COVERING, APPLICATION OF IMPERVIOUS SHEETING OR APPLICATION OF "CURE AND SEAL" TYPE CURING COMPOUND MEETING ASTM C-1315. FOR APPLICATIONS EXPOSED TO SUNLIGHT USE CLASS A (NON-YELLOWING) CURING COMPOUND. COORDINATE CURING METHOD WITH ARCHITECTURAL FLOOR FINISHES THAT REQUIRE ADHESION TO THE SLAB (SUCH AS TILE) TO INSURE PROPER BOND.
14. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117:
    F_f(FLATNESS) / F_l(LEVELNESS)
    - A. SPECIFIED OVERALL VALUE: 25 / 20
    - B. MINIMUM LOCAL VALUE: 18 / 13
    - C. MAXIMUM GAP UNDER 10 FT. UNLEVELED STRAIGHTEDGE = 1/4".
15. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER COMPACTED GRANULAR SUBBASE.
16. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL REINFORCING STEEL EXCEEDS THIS MINIMUM REQUIREMENT.
17. REINFORCE ALL INTERIOR SLABS ON GROUND WITH 6x6-W2.9xW2.9 (42#) MESH. LOCATE MESH 2" CLEAR BELOW TOP OF SLAB.
18. REINFORCE ALL CONCRETE SLABS SUPPORTED ON METAL FORM DECK WITH 6x6-W2.9xW2.9 (42#) MESH. LOCATE MESH AT CENTER OF DEPTH OF CONCRETE THICKNESS ABOVE METAL DECK FOR SLABS UP TO 3" THICK. FOR SLABS GREATER THAN 3" THICK, DRAPE MESH OVER SUPPORTS TO 3/4" CLEAR FROM THE TOP OF SLAB.
19. LAP WELDED WIRE FABRIC MINIMUM 1 FULL SPACE PLUS 2".
20. PROVIDE 6'-0" LONG #4 BARS AT 16" ON CENTER CENTERED ABOVE ALL GIRDERS. LOCATE 3/4" CLEAR FROM TOP OF SLAB.
21. DO NOT BACKFILL AGAINST BASEMENT FOUNDATION WALLS UNTIL ADJACENT FLOOR STRUCTURE AND CONCRETE/DECKING IS IN PLACE TO BRACE THE TOP OF THE WALL.
22. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS; 24" ON CENTER FOR PARALLEL SURFACES AND AT CENTERLINE OF MASONRY FOR PERPENDICULAR WALLS.
23. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). COORDINATE LOCATION AND PATTERN WITH ARCHITECTURAL DRAWINGS.
24. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 12'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1½ TO 1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP. THE CONTROL JOINT SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE. IF AN EARLY-CUTTING SAW IS BE USED AND A SHALLOWER DEPTH OF THE CUT IS DESIRED, CONTACT THE ENGINEER IN ADVANCE FOR APPROVAL.
25. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTROL JOINT LOCATION. CONSTRUCTION JOINTS SHALL HAVE A KEY FORMED AT MID-DEPTH OF THE FIRST CAST SECTION. THE KEY SHALL BE 1½" DEEP AND SHALL BE 1/3 OF THE SLAB THICKNESS HIGH. THE TOP AND BOTTOM OF THE KEY SHALL HAVE 1 VERTICAL TO 3 HORIZONTAL SLOPE.
26. FILL CONTROL AND CONSTRUCTION JOINTS IN TRAFFIC AREAS WITH SEMI-RIGID EPOXY JOINT FILLER WITH A DUROMETER SHORE A-SCALE HARDNESS NUMBER OF APPROXIMATELY 80. FILL CONTROL AND CONSTRUCTION JOINTS IN NON-TRAFFIC AREAS WITH ELASTOMERIC SEALANT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
27. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
28. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTROL JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.
29. PROVIDE CONTROL/CONSTRUCTION JOINTS IN CONCRETE WALLS AT A MAXIMUM SPACING OF TWICE THE HEIGHT OF THE WALL. MAXIMUM JOINT SPACING SHALL NOT EXCEED 24 FT. CONTROL JOINTS SHALL HAVE A 3/4" DEEP BY 1½" WIDE TAPERED REVEAL EACH SIDE OF THE WALL. AT CONTROL JOINTS, EVERY OTHER HORIZONTAL BAR SHALL BE CUT BACK 1" TO 1/2" FROM THE CONTROL JOINT. CONSTRUCTION JOINTS SHALL BE FORMED SIMILAR TO CONTROL JOINTS. AT CONSTRUCTION JOINTS, ALL HORIZONTAL STEEL SHALL BE DISCONTINUOUS AND A DOWEL BAR OF SIZE AND SPACING TO MATCH THE HORIZONTAL REINFORCING SHALL BE EMBEDDED A MINIMUM OF 40 BAR DIAMETERS EACH SIDE OF THE CONSTRUCTION JOINT. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL JOINT TREATMENT.

EXPANSION AND EPOXY ADHESIVE ANCHORS

1. EXPANSION ANCHORS:
   - A. EXPANSION ANCHORS SHALL BE MANUFACTURED BY THE HILTI COMPANY AND SHALL BE THE TYPE, SIZE, AND EMBEDMENT INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
2. EPOXY ADHESIVE ANCHORS:
   - A. EPOXY ADHESIVE SHALL BE HIT-HY 200 V3 EPOXY ADHESIVE MANUFACTURED BY THE HILTI COMPANY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
   - B. THREADED RODS SHALL BE ASTM A36. SIZES AND EMBEDMENT AS INDICATED ON THE DRAWINGS.
   - C. CONDUCT JOB-SITE TRAINING OF ALL CONTRACTOR'S PERSONNEL INSTALLING THIS PRODUCT FOR SAFE AND PROPER INSTALLATION, HANDLING, AND STORAGE OF THE EPOXY SYSTEM.

MASONRY

1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 602)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
2. COMPRESSIVE STRENGTH SHALL BE DETERMINED FOR EACH TYPE OF MASONRY BY THE UNIT STRENGTH METHOD.
   - A. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY USED FOR DESIGN: f'm = 2000 PSI AT 28 DAYS
3. SUBMITTALS SHALL BE MADE FOR THE FOLLOWING:
   - A. COLD WEATHER CONSTRUCTION PROCEDURE.
   - B. HOT WEATHER CONSTRUCTION PROCEDURE.
   - C. MANUFACTURERS LITERATURE FOR: HORIZONTAL JOINT REINFORCING, REINFORCING STEEL POSITIONERS, MOVEMENT JOINT MATERIALS, TIES AND ANCHORS.
   - D. SHOP DRAWINGS SHOWING: DETAILS OF STEEL REINFORCING, AND LINTELS.
   - E. MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR SPECIFIED MASONRY UNIT, AND REINFORCING STEEL.
   - F. PROPORTIONS OF MATERIAL IN ACCORDANCE WITH REFERENCED SPECIFICATIONS OF MORTAR AND GROUT.
4. MATERIALS:
   - A. CONCRETE MASONRY UNITS: ASTM C90 TYPE I BELOW GRADE: NORMAL WEIGHT AGGREGATE PER ASTM C33.
     - a. MINIMUM UNIT COMPRESSIVE STRENGTH, f'_m = 2000 PSI.
   - B. CONCRETE MASONRY UNITS: ASTM C90 TYPE I ABOVE GRADE: LIGHTWEIGHT AGGREGATE PER ASTM C331 OR NORMAL WEIGHT.
     - a. MINIMUM UNIT COMPRESSIVE STRENGTH, f'_m = 2000 PSI.
   - C. FACING BRICK: ASTM C216 GRADE SW. COLOR AND SIZE AS NOTED ON THE ARCHITECTURAL DRAWINGS.
   - D. MORTAR: ASTM C270 TYPE S, f'_m = 1800 PSI AT 28 DAYS.
     - a. PORTLAND CEMENT-LIME MORTAR:
       - i. PORTLAND CEMENT: TYPE I AND HYDRATED LIME
     - b. MASONRY CEMENT MORTAR: AT CONTRACTOR'S OPTION.
   - E. GROUT: ASTM C476. f'_c = 2000 PSI, SLUMP 8" TO 10".
   - F. REINFORCING STEEL: ASTM A615, 60 KSI YIELD.
   - G. HORIZONTAL JOINT REINFORCING FOR SINGLE WYTHE CONCRETE MASONRY: 9 GAUGE LADDER TYPE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
   - H. HORIZONTAL JOINT REINFORCING FOR CONCRETE MASONRY AND BRICK VENEER CAVITY WALL: 9 GAUGE LADDER TYPE PLACED IN CONCRETE MASONRY WITH PROJECTING EYES FOR 3/16" DIAMETER DOUBLE WIRE RECTANGULAR ADJUSTABLE PINTLE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. THIS TYPE OF JOINT REINFORCING ALLOWS THE VENEER TO BE PLACED AFTER INTERIOR WYTHE IS PLACED. LADDER TYPE TRI-ROD MAY BE USED IF BOTH WYTHES ARE LAID SIMULTANEOUSLY. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
   - I. BRICK VENEER ANCHORS FOR METAL STUD AND WOOD STUD BACKUP: DUR-O-WAL D/A 213 OR WIRE-BOND RJ-711 WITH 3/16" DIAMETER PINTLE. HOT-DIPPED GALVANIZED PER ASTM A153 CLASS B. VERTICAL DISTANCE BETWEEN HORIZONTAL PINTLE WIRE AND CLIP PLATE SHALL NOT EXCEED 3/4". (FLAT CORRUGATED TIES ARE NOT PERMITTED). SCREWS SHALL BE MINIMUM #10 SIZE AND SHALL BE CADMIUM-PLATED OR HOT-DIPPED GALVANIZED (STAINLESS STEEL AND COPPER-COATED SCREWS ARE NOT PERMITTED). ANCHORS SHALL BE ATTACHED WITH FASTENERS TO THE WOOD OR STEEL FRAMING WALL STUDS. PROVIDE BRICK VENEER ANCHORS WITH MAXIMUM HORIZONTAL SPACING OF 24" AND MAXIMUM VERTICAL SPACING OF 16". BRICK VENEER ANCHORS SHALL BE EMBEDDED 2" MINIMUM INTO BRICK.
5. MORTAR PROPORTIONS MUST BE ACCURATELY MEASURED PRIOR TO MIXING. ADD CEMENT TO MIX IN FULL BAG QUANTITIES. MEASURE SAND IN BOX WITH VOLUME OF ONE CUBIC FOOT AS OFTEN AS NECESSARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE DAILY AND EVERY 4 HOURS OF MIXING.
6. MINIMUM VERTICAL REINFORCEMENT REQUIREMENTS FOR ALL MASONRY WALLS.
   - A. AS A MINIMUM, ALL MASONRY SHALL BE REINFORCED PER SECTION ACI 530 1.14.2.2.2.1.
   - B. #4 VERTICAL BARS SHALL BE PLACED AT ALL CORNERS, WITHIN 16 INCHES OF EACH WALL OPENINGS, WITHIN 8 INCHES OF EACH WALL MOVEMENT JOINT AND WITHIN 8 INCHES OF THE END OF THE WALL.
   - C. HORIZONTAL JOINT REINFORCEMENT SHALL BE SPACED AT 16" MAX. WALL OPENINGS SHALL BE REINFORCED TOP AND BOTTOM OF OPENINGS AND SHALL EXTEND NOT LESS THAN 24 INCHES BEYOND PAST THE ROUGH OPENING.
   - D. SPACING OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 4'-0".
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS OF FIRE RATED MASONRY.
8. PROVIDE PREFABRICATED "L" AND "T" SHAPED HORIZONTAL JOINT REINFORCING AT WALL INTERSECTIONS. ALTERNATE MESH TIES REINFORCEMENT TO BE SUBMITTED FOR REVIEW CONSIDERATION PRIOR TO CONSTRUCTION.
9. KEEP AIR SPACE BEHIND VENEER FREE OF MORTAR DROPPINGS.
10. RUNNING BOND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE NOTED.
11. PROVIDE MOVEMENT (CONTROL AND EXPANSION) JOINTS IN WALLS AS INDICATED ON ARCHITECTURAL DRAWINGS UNLESS NOTED OTHERWISE. BOND BEAMS SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS UNLESS NOTED OTHERWISE:
    - A. MOVEMENT JOINTS IN CONCRETE BLOCK: SASH BLOCK UNIT WITH PREFORMED SHEAR KEY. CAULK BOTH FACES. ALTERNATE DETAILS FOR CONTROL JOINTS MAY BE ACCEPTABLE; SUBMIT DETAILS FOR APPROVAL.
    - B. MOVEMENT JOINTS IN BRICK: 3/8" WIDE CLEAN JOINT FILLED WITH EXPANSION JOINT MATERIAL PER ASTM D1056, CLASS RE 41. CAULK EXTERIOR FACE.
    - C. PROVIDE BUILDING PAPER BOND BREAK BELOW LINTEL BEARING ADJACENT TO CONTROL JOINTS.
12. UNLESS NOTED OTHERWISE ON PLANS, UNDER LINTELS, BEARING PLATES, BEAMS, ETC.; FILL CELLS WITH GROUT, 3 COURSES MINIMUM BELOW BEARING.

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

NOT FOR CONSTRUCTION

#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

GENERAL STRUCTURAL NOTES

S001

13. ALL REINFORCING STEEL SHALL BE SUPPORTED AND FASTENED TO APPROVED POSITIONERS LOCATED AT 192 BAR DIAMETERS MAXIMUM SPACING AND WITH A MINIMUM OF TWO POSITIONERS PER GROUT POUR (ONE NEAR THE BOTTOM AND ONE NEAR THE TOP) TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF GROUT. ALL REINFORCING BARS MUST BE FULLY GROUTED IN PLACE IN LIFTS NOT TO EXCEED 60 INCHES.

14. BAR LAPS ARE AS FOLLOWS UNLESS OTHERWISE NOTED. MINIMUM BAR LAPS SHALL NOT BE LESS THAN 48 BAR DIAMETERS.

    A. #4 BAR: 24" MINIMUM LAP
    B. #5 BAR: 30" MINIMUM LAP
    C. #6 BAR: 36" MINIMUM LAP
    D. IN DOUBLE REINFORCED CELLS, STAGGER BAR SPLICES ACCORDINGLY SO THAT LAPS DO NOT OCCUR WITHIN THE SAME SECTION ALONG THE HEIGHT OF THE WALL.

15. GROUT ALL CELLS BELOW GRADE SOLID.

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.

2. FABRICATOR SHALL DESIGN CONNECTIONS AND, WHEN REQUESTED, SUBMIT CALCULATIONS TO AID THE ENGINEER IN REVIEW. UNLESS SPECIFIC END MOMENTS AND REACTIONS ARE INDICATED ON DRAWINGS, DESIGN AND FABRICATE CONNECTIONS TO RESIST SHEAR BASED ON THE MAXIMUM UNIFORM LOAD CAPACITY OF THE MEMBER FOR THE SPAN INCREASED BY 15%, BUT NO MORE THAN THE SHEAR CAPACITY OF THE MEMBER.

3. THE CONTRACTOR SHALL SUBMIT AS PART OF THE BIDDING PROCEDURE A UNIT COST FOR MISCELLANEOUS STRUCTURAL STEEL REQUIREMENTS THAT MAY HAVE BEEN OMITTED FROM THE CONSTRUCTION BID DOCUMENTS. PROVIDE A UNIT COST PER POUND FOR EACH OF THE FOLLOWING HOT ROLLED SECTIONS: WF BEAM, WF COLUMN, HSS, C-CHANNELS, L-LINTELS (GALVANIZED) AND L-LINTELS (PAINTED).

4. NO OPENING OR HOLE SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAT WHAT IS INDICATED ON THE DRAWINGS) UNLESS THE LOCATION HAS BEEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

5. ALL FLOOR OR ROOF BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP.

6. FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS.

7. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1).

8. MATERIALS:

    A. ROLLED WIDE FLANGE SHAPES UNLESS NOTED: ASTM A992 DUAL GRADE; F_y = 50 KSI.
    B. ROLLED SHAPES AND PLATES UNLESS NOTED: ASTM A36.
    C. TUBULAR SHAPES: ASTM A500 GRADE C.
    D. PIPE SHAPES: ASTM A53, TYPES E OR S GRADE B.
    E. BOLTS: ASTM A325-N, 3/4" DIAMETER UNLESS NOTED.
    F. ANCHOR RODS: ASTM F1554 GRADE 36 KSI MATERIAL FULLY THREADED RODS HAVING A NUT TACK WELDED IN PLACE ON BOTTOM. MINIMUM EMBEDMENT AS NOTED ON THE DRAWINGS.
    G. FIELD WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.
    H. COLD-FORMED STRUCTURAL SHAPES: ASTM A1011, F_y = 50 KSI MINIMUM SECTION PROPERTIES BASED ON SECTIONS MANUFACTURED BY FABRAL ALCAN BUILDING PRODUCTS, METAL SALES MANUFACTURING CORPORATION, STEEL COMPONENT SYSTEMS.
    I. NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND EXTERIOR APPLICATIONS.

9. PAINT AND PROTECTION:

    A. STRUCTURAL STEEL UNLESS NOTED: FABRICATOR'S STANDARD PRIME COAT. TOUCH UP AFTER ERECTION.
    B. PROVIDE MINIMUM 3" CONCRETE COVER FOR ALL STEEL BELOW GRADE.
    C. LINTELS SUPPORTING EXTERIOR MASONRY WYTHES AND MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURES: HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER PARAGRAPH 5.1 OF ASTM A123 AND A153. FABRICATE ASSEMBLIES PER ASTM A143, A384, AND A385. TOUCH UP AFTER ERECTION WITH ORGANIC ZINC RICH PAINT COMPLYING WITH DOP-P-21035 OR MIL-P-26915, MULTIPLE COATS TO DRY FILM THICKNESS OF 8 MILS.

10. CONTRACTOR SHALL SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. ANY DEVIATIONS FROM THE ORIGINAL DESIGN INTENT SHALL BE APPROVED PRIOR TO SUBMITTING ANY SHOP SUBMITTALS. SUCH DRAWINGS WILL BE REJECTED.

11. CONTRACTOR SHALL SUBMIT MISCELLANEOUS STEEL SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. MISCELLANEOUS STEEL SHOP DRAWINGS SHALL INCLUDE STAIRS AND GUARDRAILS. MISCELLANEOUS STEEL SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER WHO IS PROVIDING SERVICES AS A SPECIALTY ENGINEER.

12. INSTALLATION OF HEADED COMPOSITE STUDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 SECTIONS 7.4 AND 7.5. HEADED COMPOSITE STUDS SHALL BE TESTED IN ACCORDANCE WITH AWS D1.1 SECTIONS 7.6, 7.7, AND 7.8 BY A QUALIFIED TESTING AGENCY. COPIES OF THE TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER.

OPEN WEB STEEL JOISTS

1. THE DESIGN, FABRICATION, AND ERECTION OF STEEL JOISTS AND JOIST GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATIONS ADOPTED BY THE STEEL JOIST INSTITUTE.

2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION.

3. CONNECTIONS: WELD EACH SIDE OF JOISTS TO SUPPORTING STEEL WITH 2 INCHES OF 3/16 INCH FILLET WELD. JOISTS AT COLUMNS TO HAVE ERECTION BOLTS.

4. JOISTS SHALL HAVE MINIMUM BRIDGING AS REQUIRED BY THE SJI, THE JOIST DESIGN REQUIREMENTS AND AS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS. WHERE BOLTED X-BRIDGING IS REQUIRED, BOLTED CONNECTIONS SHALL BE MADE PRIOR TO SLACKING HOIST LINES. PLACE ADDITIONAL X-BRIDGING AT THE END OF EACH HORIZONTAL BRIDGING RUN IN LAST JOIST SPACE.

5. WHERE JOISTS DO NOT CONNECT DIRECTLY TO THE COLUMN CAP PLATE, AT THE JOIST CLOSEST TO EACH COLUMN, PROVIDE DIAGONAL L2x2x3/16. ANGLE SHALL BE WELDED TO TOP OF COLUMN OR TO BOTTOM FLANGE OF BEAM AND TO THE FIRST TOP CHORD PANEL POINT OF JOIST WITH 2 INCHES OF 1/8 INCH FILLET EACH END UNLESS NOTED OTHERWISE ON PLAN. ANGLE SHALL BE SUPPLIED BY THE STRUCTURAL STEEL FABRICATOR.

6. PROVIDE MATCHING HEIGHT SEATS ON SHORT SPAN JOISTS WHICH HAVE COMMON BEARING WITH LONG SPAN AND DEEP LONG SPAN JOISTS.

7. PROVIDE SLOPING JOIST AND JOIST GIRDER SEATS WHERE THE SLOPE EXCEEDS 1/4" PER FOOT.

METAL DECKING

1. THE DESIGN, FABRICATION, AND ERECTION OF ALL STEEL DECKING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE.

2. MATERIALS:

    A. DECK FOR ROOF: 22 GAUGE x1½" WIDE RIB STYLE, PAINTED WITH STANDARD SHOP COAT.
    B. DECK FOR CONCRETE FORM: 28 GAUGE x9/16", GALVANIZED COATING CONFORMING TO ASTM A653 G60.

3. CONNECT 1½" AND 3" ROOF DECK TO SUPPORTS WITH 5/8" ROUND PUDDLE WELDS OR HILTI FASTENERS (USE X-HSN FASTENERS FOR 3/8" THICK OR THINNER STEEL AND X-ENP-19 POWDER-ACTUATED FASTENERS WHERE BASE STEEL THICKNESS IS GREATER THAN OR EQUAL TO 1/4"). FASTEN 1½" DECK AT 10" ON CENTER AT SUPPORTS FOR 30" WIDE DECK AND 12" ON CENTER AT SUPPORTS FOR 36" WIDE DECK AND AT 6" ON CENTER AT ENDS OF SHEETS AND PERIMETER. FOR 3" DECK, USE 8" ON CENTER PATTERN. SCREW SIDE LAPS AT 3'-0" MAXIMUM SPACING WITH #10 TEK SCREWS OR HILTI SLC.

4. CONNECT CONCRETE FORM DECK TO SUPPORTS WITH WELDS USING WELDING WASHERS OR ITW BUILDEX BX14 POWDER ACTUATED FASTENERS OR #12-24 X 7/8" ICH TRAXX 5 CLIMASEAL AT 10" ON CENTER AT SUPPORTS FOR 30" WIDE DECK (30/4 PATTERN). SCREW SIDELAPS AT MIDSPAN OR 3'-0" MAXIMUM SPACING WITH #10 TEK SCREWS.

5. METAL DECK SHALL BE PROVIDED TO RUN CONTINUOUS OVER AT LEAST 3 SPANS EXCEPT AS NOTED OTHERWISE.

6. CONNECT METAL DECK TO STRUCTURAL MEMBERS, INCLUDING PERIMETER ANGLES.

7. LAP ENDS OF ROOF DECK AND CONCRETE FORM DECK 2" MINIMUM. BUTT ENDS OF COMPOSITE FLOOR DECK.

8. OPENINGS UP TO 6" SQUARE MAY BE CUT THROUGH METAL DECK WITHOUT REINFORCING. OPENINGS BETWEEN 6" AND 18" SHALL BE REINFORCED WITH STEEL ANGLES 2x2x1/4 PUDDLE WELDED TO THE METAL DECK FLUTES AND ORIENTED PERPENDICULAR TO THE FLUTES. STEEL REINFORCING ANGLE SHALL EXTEND A MINIMUM OF 2 FLUTES EACH SIDE OF THE OPENING.

9. WELDING OF METAL DECK SHALL BE IN ACCORDANCE WITH AWS D1.3.

COLD-FORMED STEEL (CFS)

1. COLD-FORMED STEEL FRAMING CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "COLD-FORMED STEEL DESIGN MANUAL" CURRENT ADDITION. PUBLISHED BY "AMERICAN IRON AND STEEL INSTITUTE" (AISI).

2. MATERIALS:

    A. STRUCTURAL FRAMING MEMBERS 18 GAUGE AND THINNER: ASTM A1003, GRADE A, F_y MINIMUM = 33 KSI, GALVANIZED GRADE G 60 PER ASTM A1003.
    B. STRUCTURAL FRAMING MEMBERS 16 GAUGE AND HEAVIER: ASTM A1003, GRADE D, F_y MINIMUM = 50 KSI, GALVANIZED GRADE G 60 PER ASTM A1003.
    C. METAL STUDS FOR BRICK VENEER BACKUP: 18 GAUGE MINIMUM THICKNESS. MEMBERS SHALL BE GALVANIZED GRADE G 90 PER ASTM A1003.
    D. ALL TRACK AND BRIDGING: F_y = 33 KSI MINIMUM, ASTM A1003 GRADE A, GALVANIZED GRADE G60 PER ASTM A653.
    E. VERTICAL STRAP BRACING: F_y = 50 KSI MINIMUM. SIZE AND GAUGE AS NOTED ON PLAN, ASTM A1003, GRADE D, GALVANIZED GRADE G 60 PER ASTM A1003.
    F. WELDING ELECTRODES: E60XX, WELD SIZE AS NOTED ON STRUCTURAL DRAWINGS.

3. CUT ALL FRAMING COMPONENTS SO THEY FIT SQUARELY TOGETHER. STUDS MUST BEAR TIGHT AGAINST TRACK WEB. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED. BRACE WALL COMPONENTS AS REQUIRED DURING ERECTION TO PREVENT RACKING AND DISTORTION.

4. ALL FRAMING AND COMPONENTS SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL FOLLOW THE PRODUCT STANDARDS AND QUALITY STANDARDS AS REQUIRED BY "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA). ALL MEMBERS SHALL HAVE 1⅝" FLANGE WIDTH UNLESS NOTED OTHERWISE ON THE PLANS. ALL STUD/JOIST MEMBERS SHALL HAVE FLANGE LIP.

5. NO OPENING OR HOLE SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAT WHAT IS INDICATED ON THE DRAWINGS) UNLESS THE LOCATION HAS BEEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

6. FASTEN ALL EXTERIOR METAL WALL FRAMING TO SUPPORTING FOUNDATION WITH A MINIMUM OF 1/2" DIAMETER ANCHOR BOLTS SPACED AT 32" ON CENTER OR BY USE OF A MINIMUM OF (2) POWDER ACTUATED FASTENERS HAVING A SHANK DIAMETER OF 0.157" AND EMBEDMENT OF 1" SPACED AT 16" ON CENTER. APPROVED FASTENER: HILTI X-U UNIVERSAL KNURLED SHANK FASTENER.

7. PROVIDE SUBMITTALS FOR STRUCTURAL FRAMING SHOWING PROPOSED METHODS OF ATTACHMENT, STUD/JOIST SPACING WITH MEMBER SIZES INDICATED. SUBMITTAL SHALL INDICATE THE SIZE OF ALL MEMBERS, ALL CONNECTION DETAILS, BRIDGING, AND BRACING. THE ENGINEER, PRIOR TO FABRICATION AND ERECTION, SHALL APPROVE SUBMITTALS.

8. PRIOR TO THE START OF INSTALLATION OF METAL FRAMING SYSTEMS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE INSTALLERS OF OTHER WORK INCLUDING MECHANICAL, STRUCTURAL AND ELECTRICAL WORK. REVIEW AREAS OF POTENTIAL INTERFERENCE AND CONFLICTS AND COORDINATE LAYOUT AND SUPPORT PROVISIONS FOR INTERACTING WORK.

9. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. ALL WELDED CONNECTIONS SHALL BE MADE BY WELDERS CERTIFIED FOR WELDING MEMBERS OF GAUGE BEING USED PER AWS D.1.3.

10. BRIDGING OF AXIAL LOADED WALL FRAMING AND NON-BEARING WALL FRAMING SHALL BE ACCOMPLISHED BY EITHER: A COLD ROLLED CHANNEL THAT RUNS HORIZONTALLY THROUGH THE STUD PUNCH-OUTS AND IS ATTACHED AT EACH STUD BY USE OF CLIPS, OR BY MINIMUM 2" WIDE STEEL STRAPS THAT RUN HORIZONTALLY ON BOTH SIDES OF THE STUDS AND IS ATTACHED AT EACH STUD AND TO FULL DEPTH BLOCKING AT EVERY FOURTH STUD SPACE. SPACING OF HORIZONTAL BRIDGING SHALL BE AT A MAXIMUM OF 4'-0" ON CENTER. ALL DAMAGED OR CUT BRIDGING SHOULD BE REPAIRED OR REPLACED.

11. STUD OR TRACK SHALL HAVE SOLID BLOCKING LOCATED AT EACH END BRIDGING RUN OR AT THE BEGINNING AND END OF EACH DOOR OR WINDOW OPENING.

12. FOR LARGER STUDS (8" OR WIDER) THE BRIDGING CLIP ATTACHED TO THE STUD SHALL BE WIDE ENOUGH TO RESIST BOTH LATERAL AND TWISTING FORCES. COORDINATE WITH BRIDGING CLIP MANUFACTURER.

13. SEE PLAN FOR LOCATION OF BRIDGING AT COLD-FORMED STEEL JOISTS. USE 16 GAUGE SOLID BRIDGING ONE SIZE SMALLER IN FIRST TWO AND LAST TWO JOIST SPACES. BETWEEN END SPACES INSTALL STRAP BRACING 2"x16 GAUGE TOP AND BOTTOM FOR 10'-0" RUN, THEN ONE SOLID 16 GAUGE BRIDGING IN SPACE, REPEATED AS REQUIRED.

DRAWING INDEX

TYPICAL ABBREVIATION LIST

AEF	=	Alternate Each Face	LG	=	Long
ARCH	=	Architect	LL	=	Live Load
BLDG	=	Building	LLH	=	Long Leg Horizontal
BM	=	Beam	LLV	=	Long Leg Vertical
B/FTG	=	Bottom of Footing	LSL	=	Laminated Strand Lumber
B/DECK	=	Bottom of Deck	LVL	=	Laminated Veneer Lumber
BRG	=	Bearing	MAX	=	Maximum
CIP	=	Cast In Place	MECH	=	Mechanical
CJ	=	Control Joint	MIN	=	Minimum
CL	=	Center Line	ML	=	Micro Laminated
CLR	=	Clear	NS	=	Non Shrink
CMU	=	Concrete Masonry Unit	NTS	=	Not to Scale
CONC	=	Concrete	o.c.	=	On Center
CONT	=	Continuous	PAF	=	Powder Actuated Fastener
DL	=	Dead Load	PC	=	Piece
DWG	=	Drawings	PEMB	=	Pre-Engineered Metal Building
EJ	=	Expansion Joint	PL	=	Plate
EL	=	Elevation	psf	=	Pounds Per Square Foot
EMBD	=	Embedment	RD	=	Roof Drain
ENGR	=	Engineer	REINF	=	Reinforcement
EQ	=	Equal Distance	RTU	=	Roof Top Unit
EW	=	Each Way	SDS	=	Self Drilling Screw
EF	=	Each Face	SF	=	Step Footing
EX	=	Existing	SW	=	Step Wall
EXT	=	Exterior	SB	=	Solid Bearing
FTG	=	Footing	SCH	=	Schedule
FND	=	Foundation	SIM	=	Similar
ga	=	Gauge	STL	=	Steel
GALV	=	Galvanized	SRD	=	Secondary Roof Drain
GC	=	General Contractor	T/FTG	=	Top Of Footing
GRAN	=	Granular	TS	=	Tube Steel
HORZ	=	Horizontal	TYP	=	Typical
HD	=	Hold Down Anchor	UNO	=	Unless Noted Otherwise
HSS	=	Hollow Structural Section	VERT	=	Vertical
k	=	Kips	WWF	=	Welded Wire Fabic
ksf	=	Kips Per Square Foot	WF	=	Wide Flange
lbs	=	Pounds	WP	=	Work Point

NOT ALL ABBREVIATIONS APPLY. INCLUDED FOR REFERENCE ONLY.

advantage STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

NOT FOR CONSTRUCTION

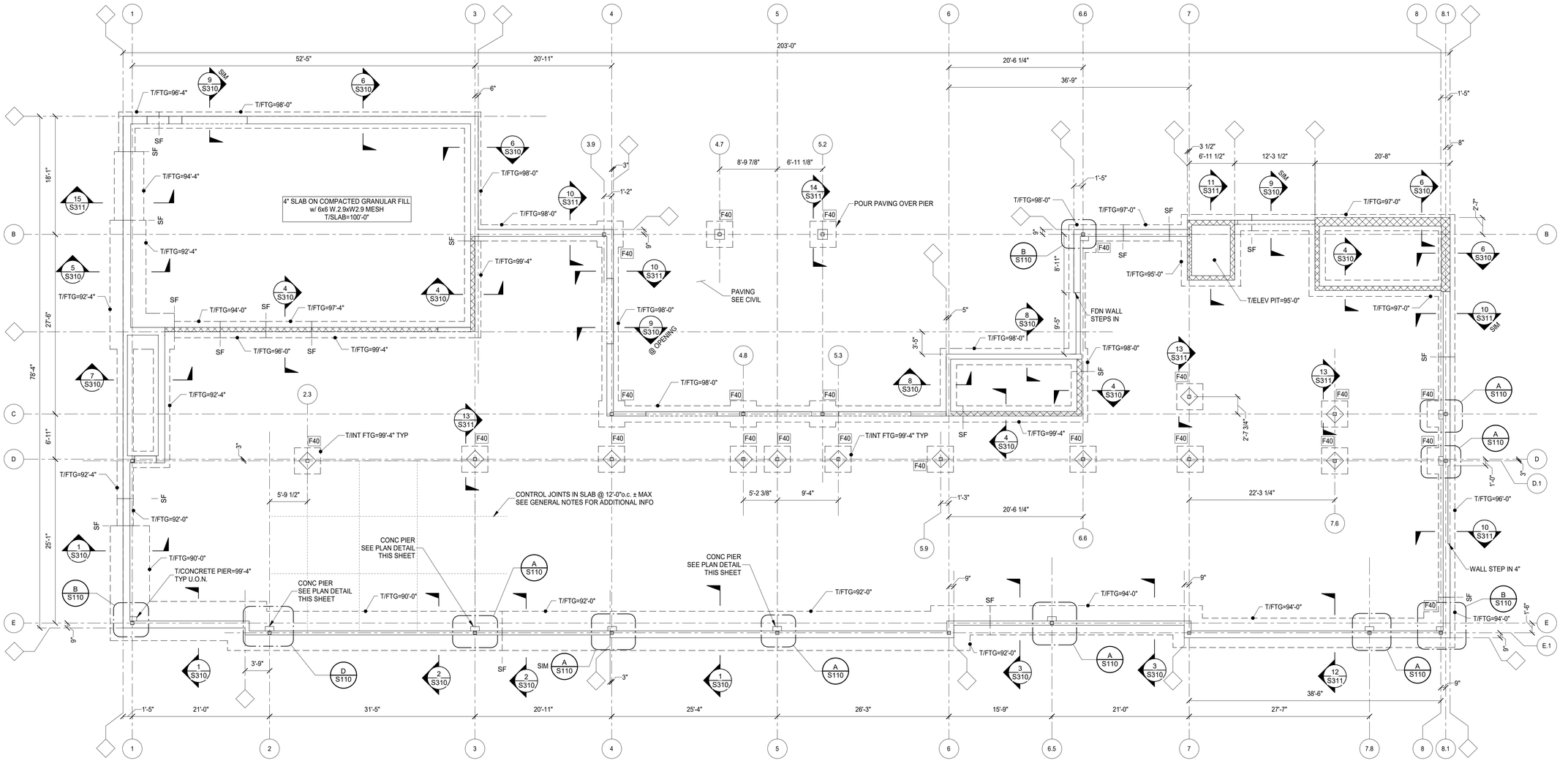
#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

GENERAL STRUCTURAL NOTES

S002

Revit 2024 02/21/2024 2:14:41 PM

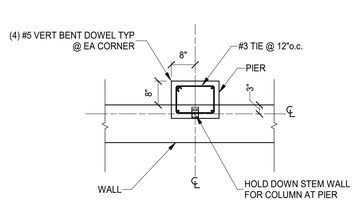


FOUNDATION PLAN

SCALE 1/8" = 1'-0"

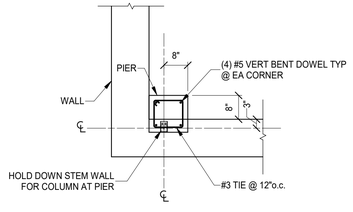
NORTH

FOOTING SCHEDULE		
MARK	DESCRIPTION	T/FTG
F40	4'-0"x4'-0"x1'-0" CONC FOOTING w/(4) #5's EACH WAY BOTTOM	SEE PLAN



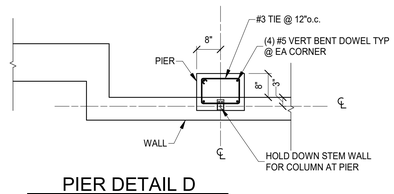
PIER DETAIL A

SCALE 1/2" = 1'-0"



PIER DETAIL B

SCALE 1/2" = 1'-0"



PIER DETAIL D

SCALE 1/2" = 1'-0"

PLAN NOTES:

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

NOT FOR CONSTRUCTION

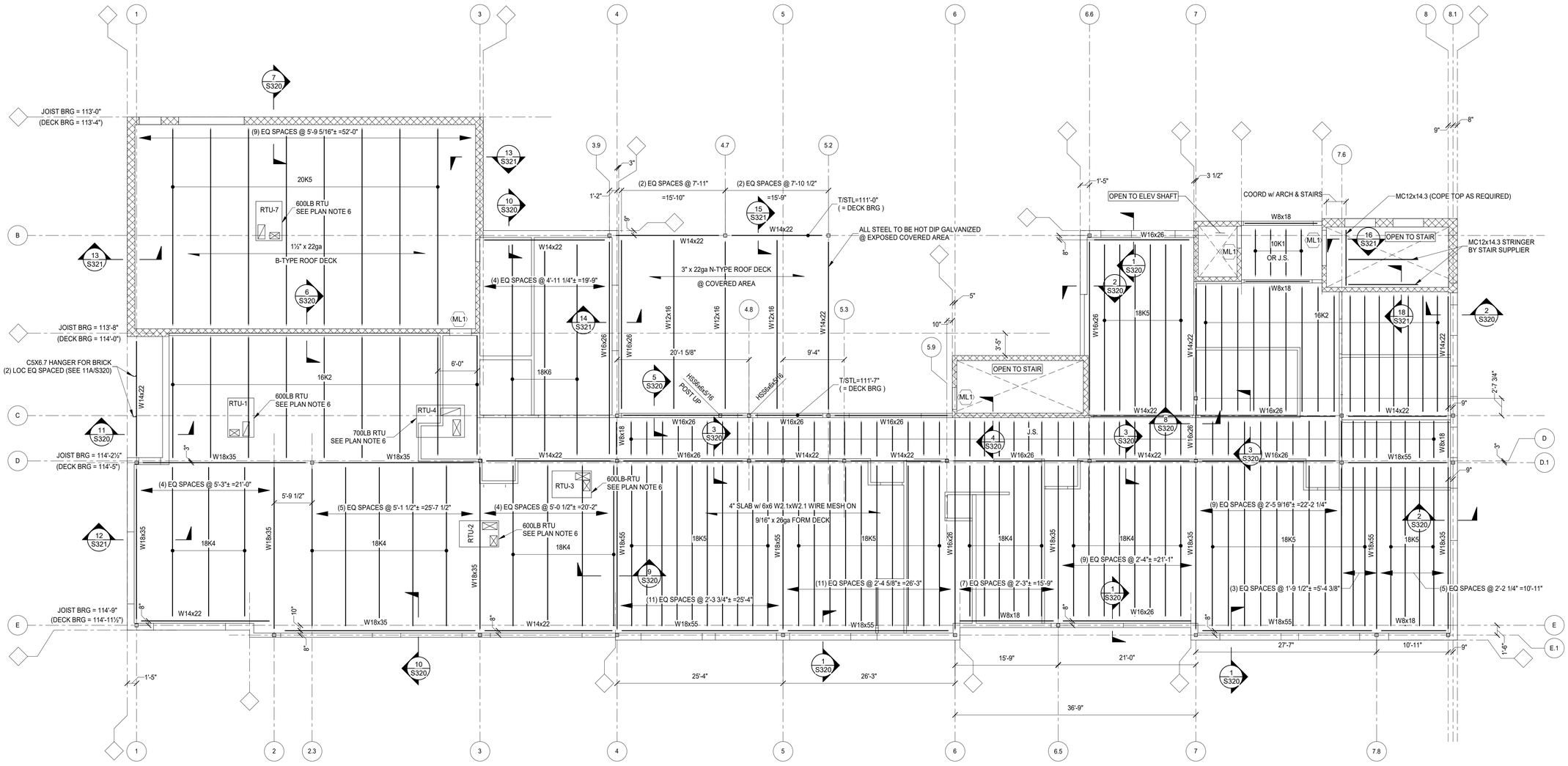
#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

FOUNDATION PLAN

S110

Revit 2024 02/21/2024 2:14:41 PM



2ND FLOOR FRAMING AND LOW ROOF

SCALE 1/8" = 1'-0"

LINTEL SCHEDULE

MARK	SIZE	REMARKS
BL1	L5x3½x5/16 LLV	6" BRG 4'-0" MAX OPEN
BL2	L7x4x3/8 LLV	8" BRG 9'-4" MAX OPEN
ML1	8" BOND BEAM w/ (2) #5 CONT GROUT SOLID	8" BRG 4'-0" MAX OPEN
ML2	W8x28 STEEL BEAM w/ 3/8"x11½ PLATE SHOP WELD TO BOT OF BEAM FOR BRICK SHELF	8" BRG 10'-0" MAX OPEN

GALV ALL STEEL LINTELS

HEADER SCHEDULE

MARK	HEADER	HEAD/SILL	BEARING STUDS	FULL HEIGHT MEMBERS
H1	(2) 600S162-43 w/ TRACK TOP AND BOT	600T125-43	(1) 600S162-43	(1) 600S162-43 5'-0" MAX OPEN
H2	(2) 800S162-43 w/ TRACK TOP AND BOT	600T125-43 & NESTED 600S162-43	(1) 600S162-43	(2) 600S162-43 9'-4" MAX OPEN
H3	(2) 800S162-54 w/ TRACK TOP AND BOT	600T125-54 & NESTED 600S162-54	(2) 600S162-43	(3) 600S162-43 14'-0" MAX OPEN

PLAN NOTES:

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. ▶ = MOMENT CONNECTION.
3. J.S. = JOIST SUBSTITUTE DESIGN FOR 200 PLF LIVE LOAD & 150 PLF DEAD LOAD ASD LEVEL TYP.
4. REINFORCE ALL CMU WALLS WITH #5 VERT BARS AT 48"o.c. TYP. U.N.O.
5. T/SLAB=113'-0"
   T/JOIST=112'-8"
   T/BM BRG=112'-5½"
6. JOIST FABRICATOR TO DESIGN JOISTS FOR MECHANICAL LOADS ADDITIONAL TO LINEAL LOADS OF SPECIFIED K-JOIST.

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

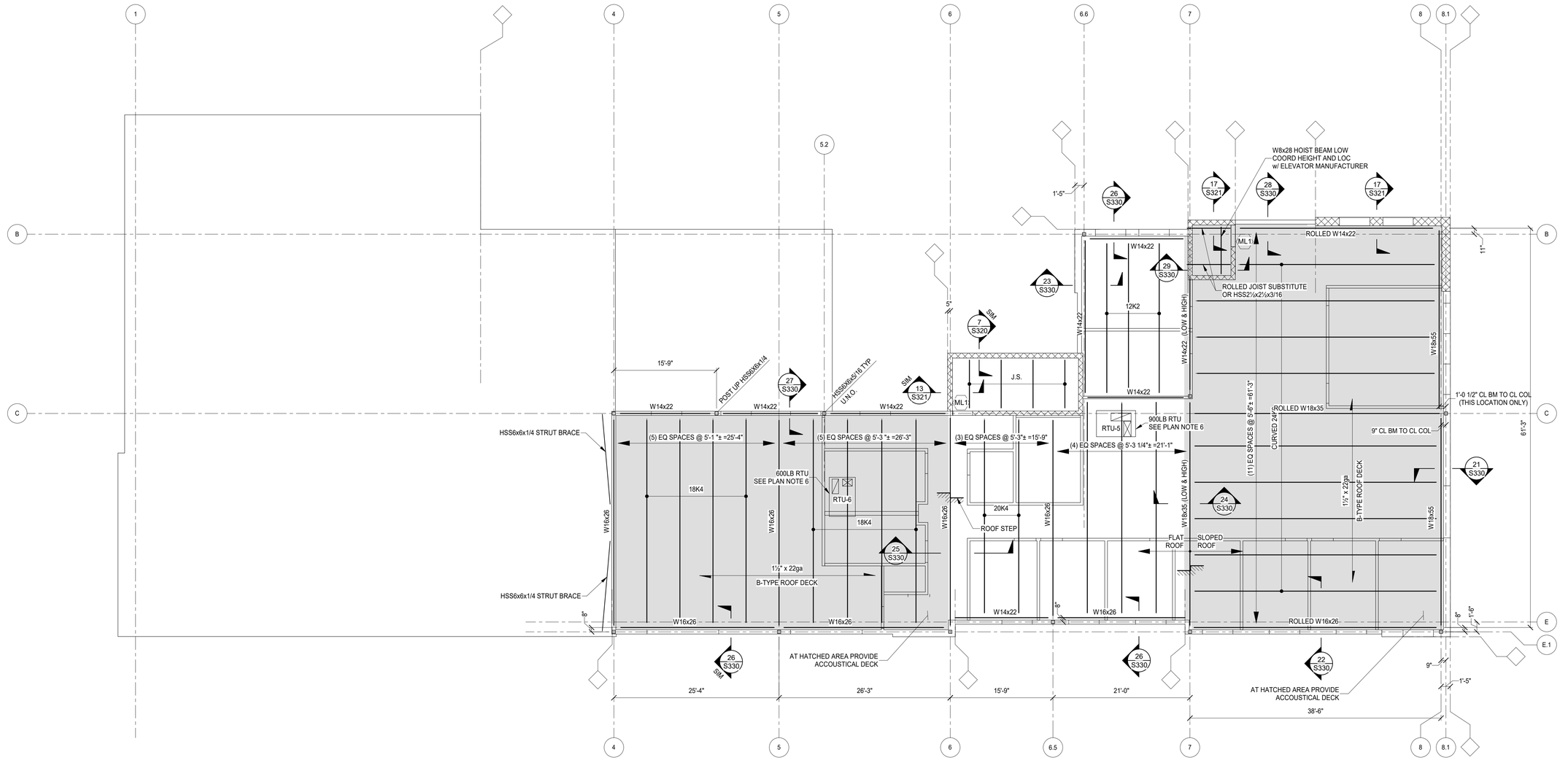
NOT FOR CONSTRUCTION

#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

2ND FLOOR FRAMING AND LOW ROOF

S120



HIGH ROOF FRAMING PLAN

SCALE 1/8" = 1'-0"

NORTH

LINTEL SCHEDULE

MARK	SIZE	REMARKS
BL1	L5x3½x5/16 LLV	6" BRG 4'-0" MAX OPEN
BL2	L7x4x3/8 LLV	8" BRG 9'-4" MAX OPEN
ML1	8" BOND BEAM w/ (2) #5 CONT GROUT SOLID	8" BRG 4'-0" MAX OPEN
ML2	W8x28 STEEL BEAM w/ 3/8"x11½ PLATE SHOP WELD TO BOT OF BEAM FOR BRICK SHELF	8" BRG 10'-0" MAX OPEN

GALV ALL STEEL LINTELS

HEADER SCHEDULE

MARK	HEADER	HEAD/SILL	BEARING STUDS	FULL HEIGHT MEMBERS
H1	(2) 600S162-43 w/ TRACK TOP AND BOT	600T125-43	(1) 600S162-43	(1) 600S162-43 5'-0" MAX OPEN
H2	(2) 800S162-43 w/ TRACK TOP AND BOT	600T125-43 & NESTED 600S162-43	(1) 600S162-43	(2) 600S162-43 9'-4" MAX OPEN
H3	(2) 800S162-54 w/ TRACK TOP AND BOT	600T125-54 & NESTED 600S162-54	(2) 600S162-43	(3) 600S162-43 14'-0" MAX OPEN

PLAN NOTES:

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. ▶ = MOMENT CONNECTION.
3. J.S. = JOIST SUBSTITUTE DESIGN FOR 200 PLF LIVE LOAD & 150 PLF DEAD LOAD ASD LEVEL TYP.
4. REINFORCE ALL CMU WALLS WITH #5 VERT BARS AT 48"o.c. TYP. U.N.O.
5. T/SLAB=113'-0"
   T/JOIST=112'-8"
   T/BM BRG=112'-5½"
6. JOIST FABRICATOR TO DESIGN JOISTS FOR MECHANICAL LOADS ADDITIONAL TO LINEAL LOADS OF SPECIFIED K-JOIST.

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS

BOYS & GIRLS CLUB

PRICE HILL

NOT FOR CONSTRUCTION

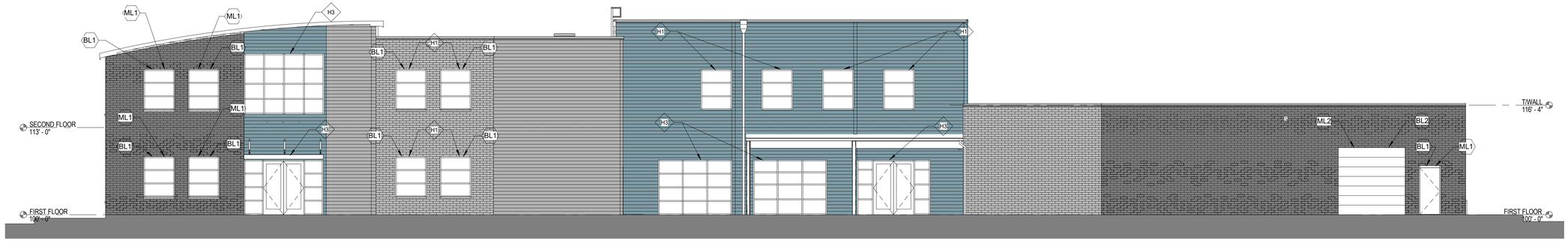
#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

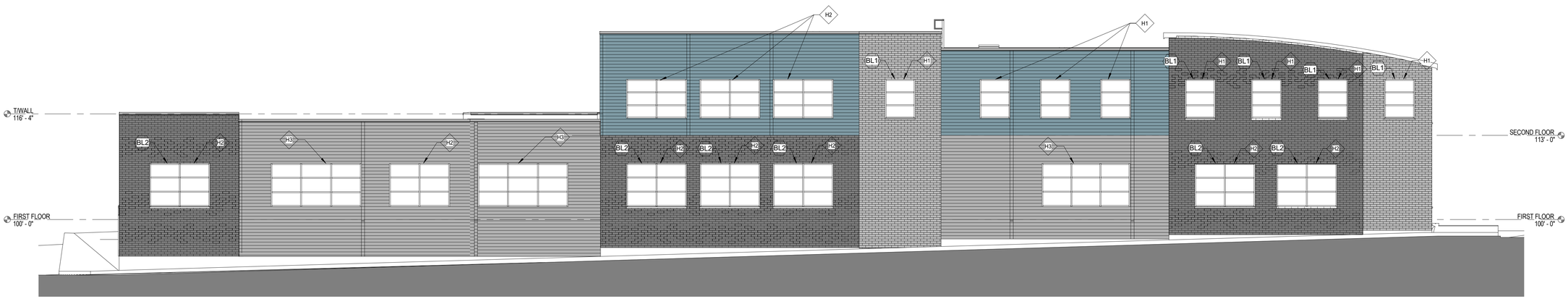
HIGH ROOF FRAMING PLAN

S130

Revit 2024 02/21/2024 2:14:43 PM



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



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

HEADER SCHEDULE

MARK	HEADER	HEAD/SILL	BEARING STUDS	FULL HEIGHT MEMBERS
H1	(2) 600S162-43 w/ TRACK TOP AND BOT	600T125-43	(1) 600S162-43	(1) 600S162-43 5'-0" MAX OPEN
H2	(2) 800S162-43 w/ TRACK TOP AND BOT	600T125-43 & NESTED 600S162-43	(1) 600S162-43	(2) 600S162-43 9'-4" MAX OPEN
H3	(2) 800S162-54 w/ TRACK TOP AND BOT	600T125-54 & NESTED 600S162-54	(2) 600S162-43	(3) 600S162-43 14'-0" MAX OPEN

LINTEL SCHEDULE

MARK	SIZE	REMARKS
BL1	L5x3½x5/16 LLV	6" BRG 4'-0" MAX OPEN
BL2	L7x4x3/8 LLV	8" BRG 9'-4" MAX OPEN
ML1	8" BOND BEAM w/ (2) #5 CONT GROUT SOLID	8" BRG 4'-0" MAX OPEN
ML2	W8x28 STEEL BEAM w/ 3/8"x11½ PLATE SHOP WELD TO BOT OF BEAM FOR BRICK SHELF	8" BRG 10'-0" MAX OPEN

GALV ALL STEEL LINTELS

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

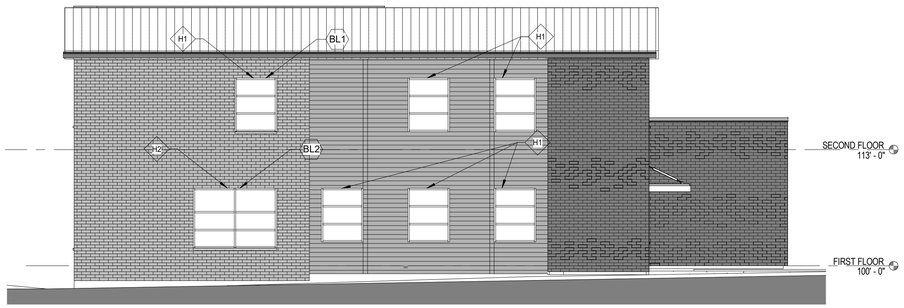
NOT FOR CONSTRUCTION

#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

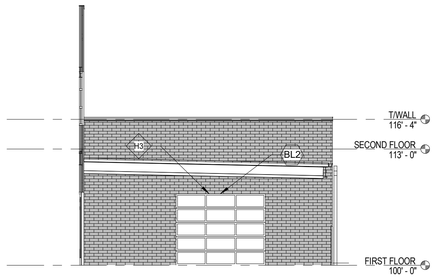
ELEVATIONS

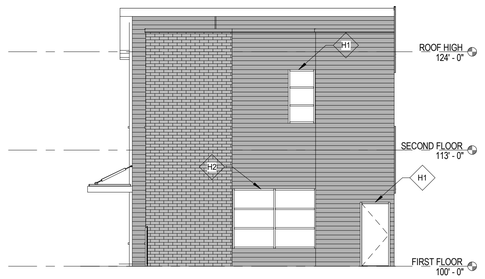
S200



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

WEST ELEVATION
SCALE 1/8" = 1'-0"





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

LINTEL SCHEDULE

MARK	SIZE	REMARKS
BL1	L5x3½x5/16 LLV	6" BRG 4'-0" MAX OPEN
BL2	L7x4x3/8 LLV	8" BRG 9'-4" MAX OPEN
ML1	8" BOND BEAM w/ (2) #5 CONT GROUT SOLID	8" BRG 4'-0" MAX OPEN
ML2	W8x28 STEEL BEAM w/ 3/8"x11½ PLATE SHOP WELD TO BOT OF BEAM FOR BRICK SHELF	8" BRG 10'-0" MAX OPEN

GALV ALL STEEL LINTELS

HEADER SCHEDULE

MARK	HEADER	HEAD/SILL	BEARING STUDS	FULL HEIGHT MEMBERS
H1	(2) 600S162-43 w/ TRACK TOP AND BOT	600T125-43	(1) 600S162-43	(1) 600S162-43 5'-0" MAX OPEN
H2	(2) 800S162-43 w/ TRACK TOP AND BOT	600T125-43 & NESTED 600S162-43	(1) 600S162-43	(2) 600S162-43 9'-4" MAX OPEN
H3	(2) 800S162-54 w/ TRACK TOP AND BOT	600T125-54 & NESTED 600S162-54	(2) 600S162-43	(3) 600S162-43 14'-0" MAX OPEN

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

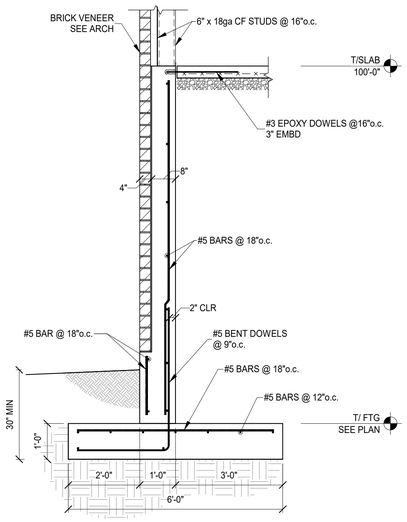
NOT FOR CONSTRUCTION

#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

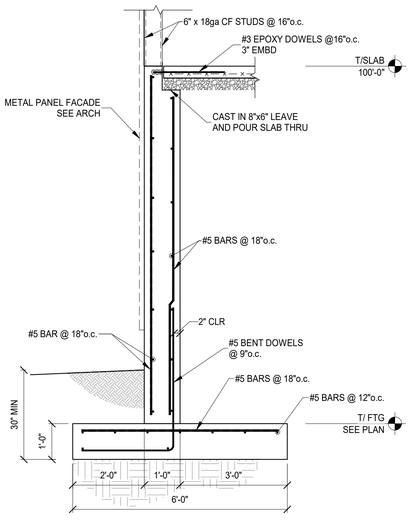
Project Number: 23101.15
Design Team: STH / JTL

ELEVATIONS

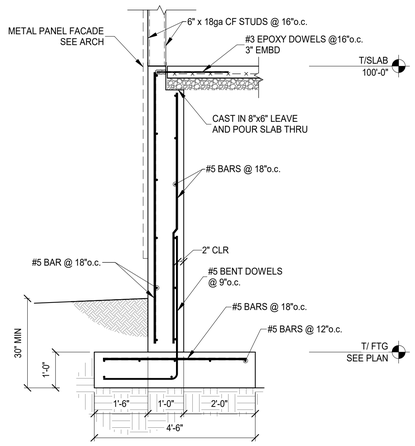
S201



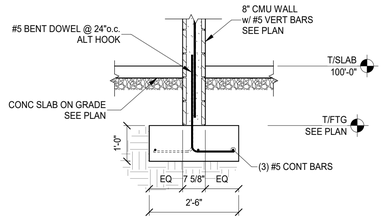
SECTION 1 — SCALE 1/2" = 1'-0" — S310



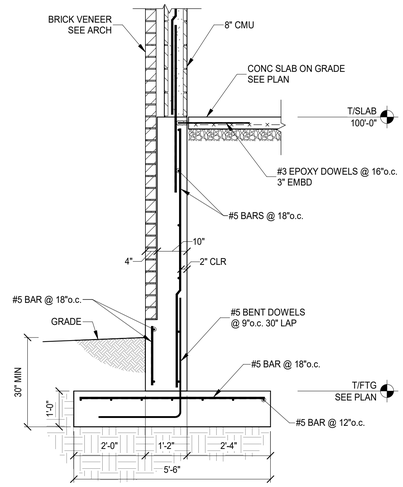
SECTION 2 — SCALE 1/2" = 1'-0" — S310



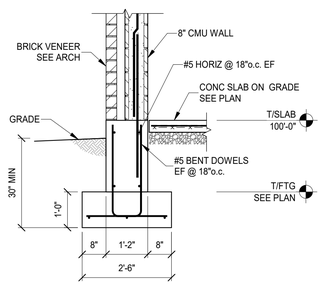
SECTION 3 — SCALE 1/2" = 1'-0" — S310



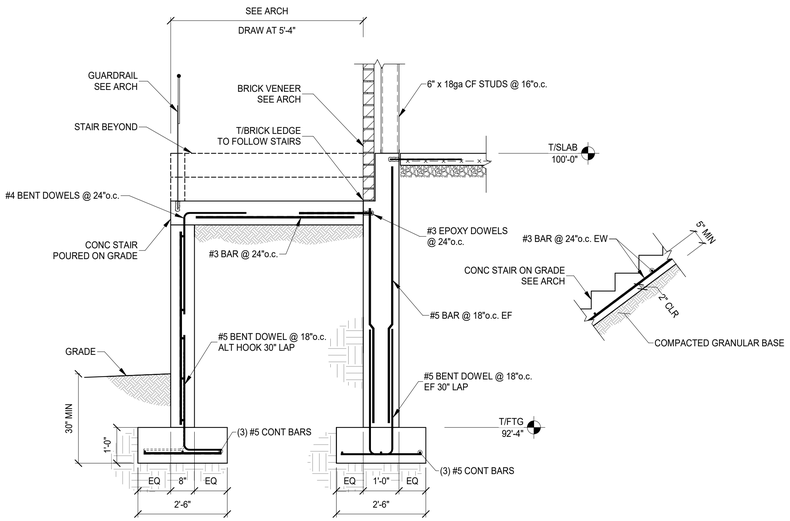
SECTION 4 — SCALE 1/2" = 1'-0" — S310



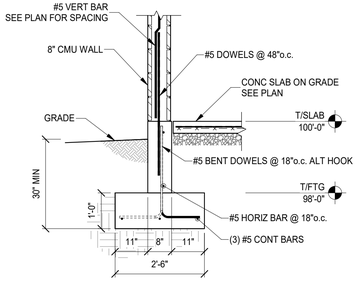
SECTION 5 — SCALE 1/2" = 1'-0" — S310



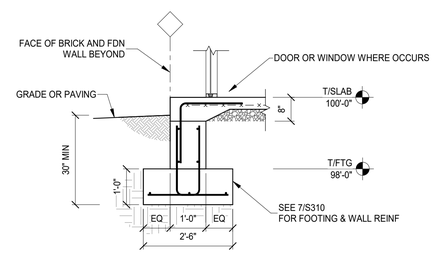
SECTION 6 — SCALE 1/2" = 1'-0" — S310



SECTION 7 — SCALE 1/2" = 1'-0" — S310



SECTION 8 — SCALE 1/2" = 1'-0" — S310



SECTION 9 — SCALE 1/2" = 1'-0" — S310

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS

BOYS & GIRLS CLUB

PRICE HILL

NOT FOR CONSTRUCTION

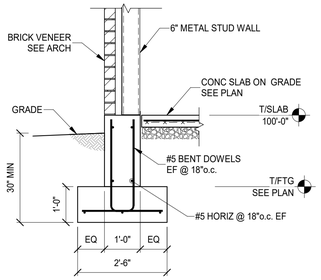
#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

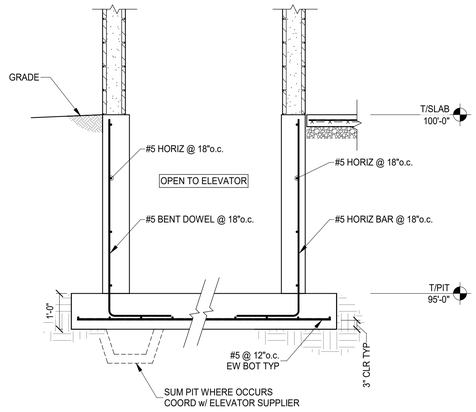
FOUNDATION SECTIONS

S310

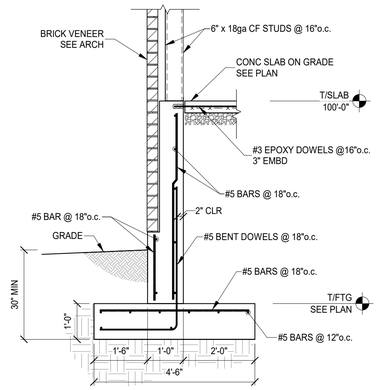
Revit 2024 02/21/2024 2:14:45 PM



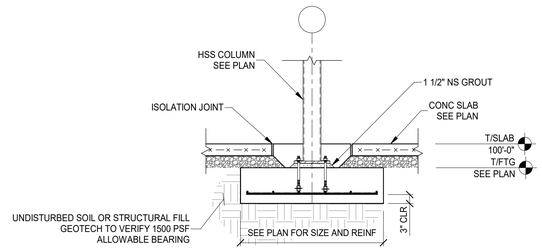
SECTION 10
SCALE 1/2" = 1'-0" S311



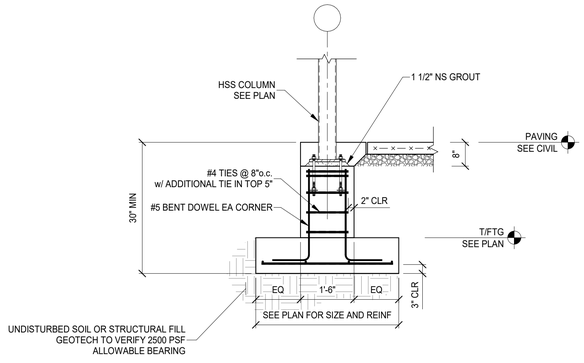
SECTION 11
SCALE 1/2" = 1'-0" S311



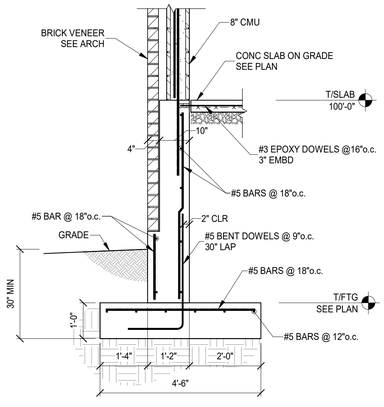
SECTION 12
SCALE 1/2" = 1'-0" S311



SECTION 13
SCALE 1/2" = 1'-0" S311



SECTION 14
SCALE 1/2" = 1'-0" S311



SECTION 15
SCALE 1/2" = 1'-0" S311

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

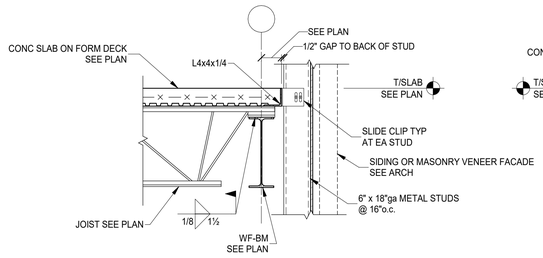
NOT FOR CONSTRUCTION

#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

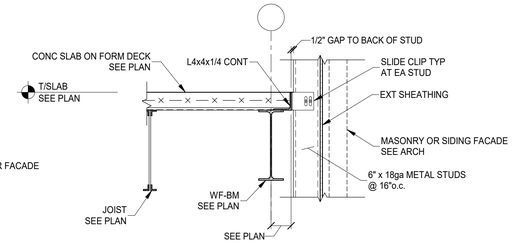
Project Number: 23101.15
Design Team: STH / JTL

FOUNDATION SECTIONS

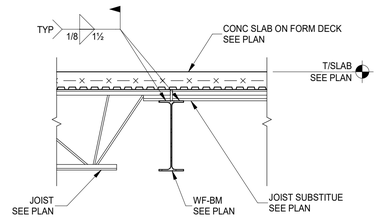
S311



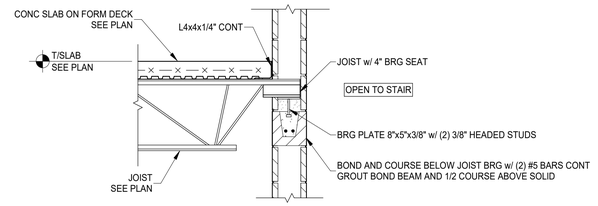
SECTION 1 — SCALE 3/4" = 1'-0" — S320



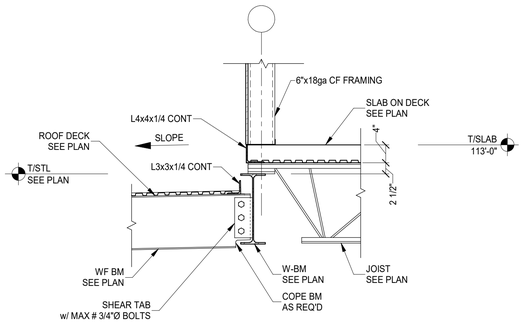
SECTION 2 — SCALE 3/4" = 1'-0" — S320



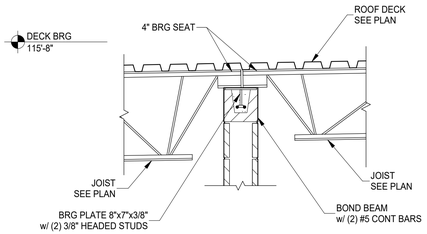
SECTION 3 — SCALE 3/4" = 1'-0" — S320



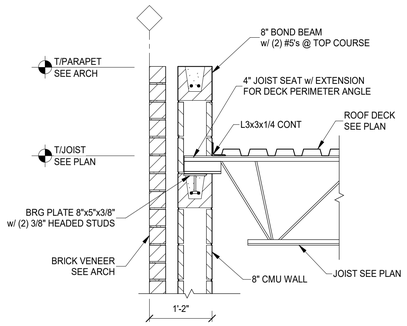
SECTION 4 — SCALE 3/4" = 1'-0" — S320



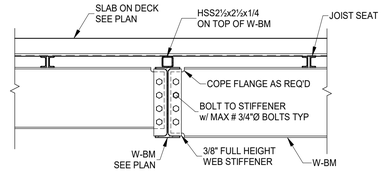
SECTION 5 — SCALE 3/4" = 1'-0" — S320



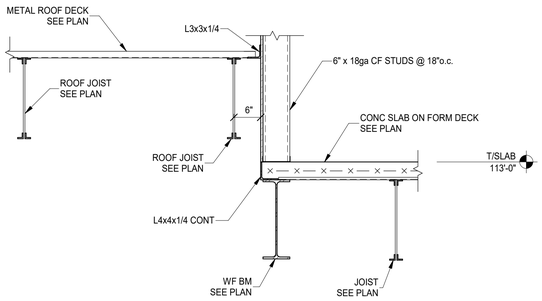
SECTION 6 — SCALE 3/4" = 1'-0" — S320



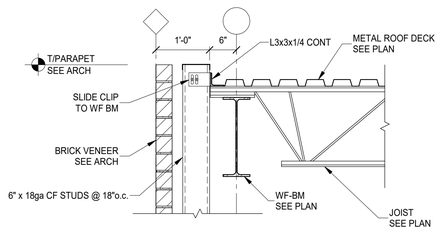
SECTION 7 — SCALE 3/4" = 1'-0" — S320



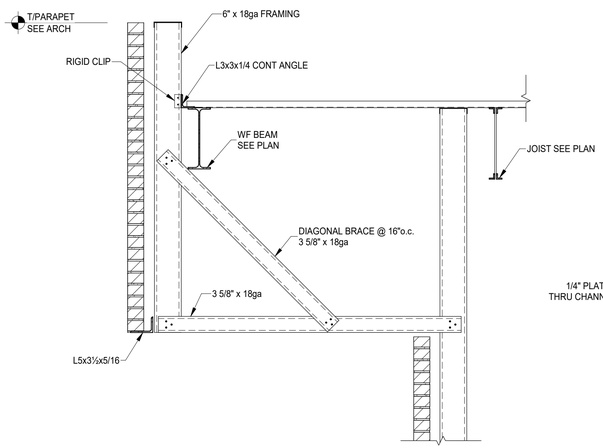
SECTION 8 — SCALE 3/4" = 1'-0" — S320



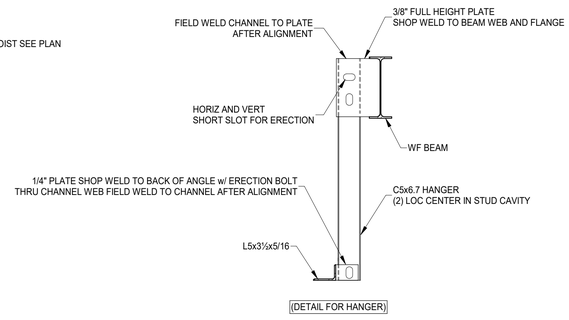
SECTION 9 — SCALE 3/4" = 1'-0" — S320



SECTION 10 — SCALE 3/4" = 1'-0" — S320



SECTION 11 — SCALE 3/4" = 1'-0" — S320



SECTION 11A — SCALE 3/4" = 1'-0" — S320

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS

BOYS & GIRLS CLUB

PRICE HILL

NOT FOR CONSTRUCTION

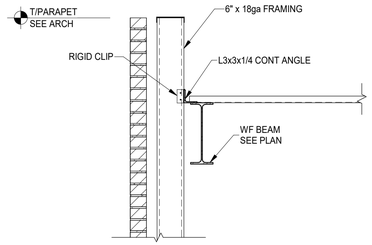
#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

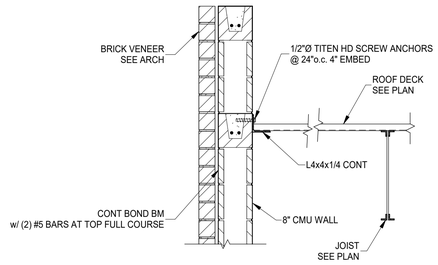
FRAMING SECTIONS

S320

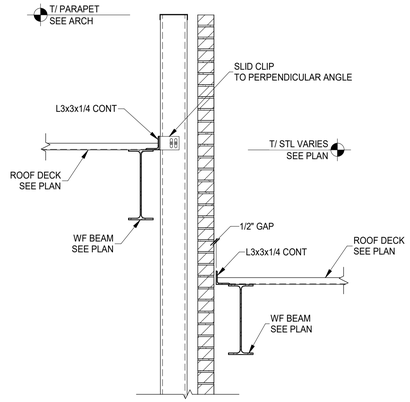
Revit 2024 02/21/2024 2:14:47 PM



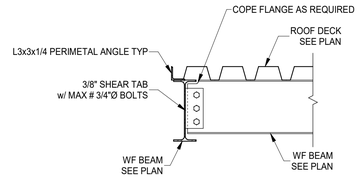
SECTION 12 / S321
SCALE 3/4" = 1'-0"



SECTION 13 / S321
SCALE 3/4" = 1'-0"



SECTION 14 / S321
SCALE 3/4" = 1'-0"



SECTION 15 / S321
SCALE 3/4" = 1'-0"

SECTION 16 / S321
SCALE 3/4" = 1'-0"

SECTION 17 / S321
SCALE 3/4" = 1'-0"

SECTION 18 / S321
SCALE 3/4" = 1'-0"

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

NOT FOR CONSTRUCTION

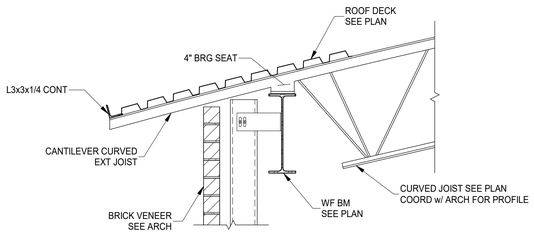
#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

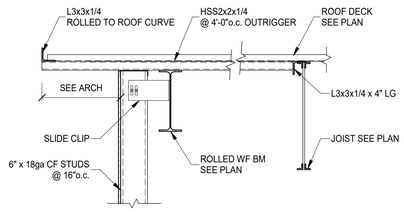
FRAMING SECTIONS

S321

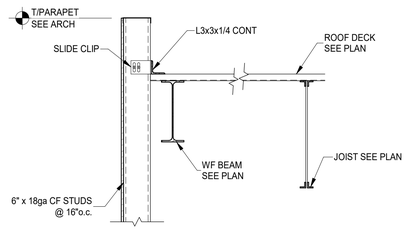
Revit 2024 02/21/2024 2:14:47 PM



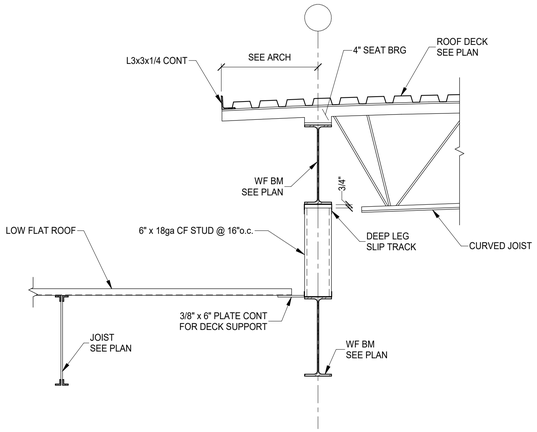
SECTION 21
SCALE 3/4" = 1'-0" S330



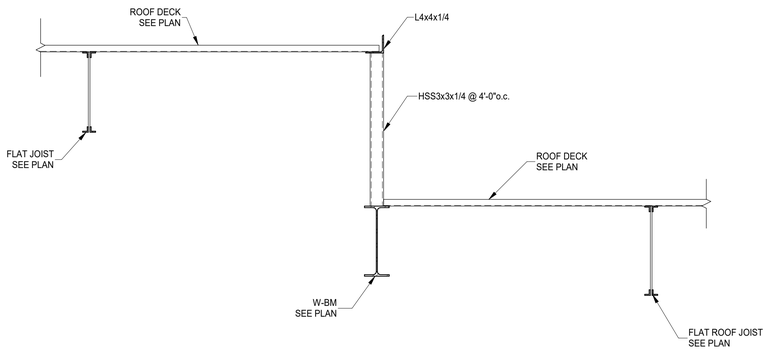
SECTION 22
SCALE 3/4" = 1'-0" S330



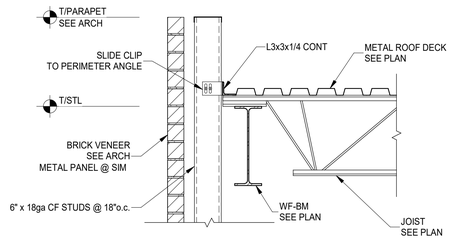
SECTION 23
SCALE 3/4" = 1'-0" S330



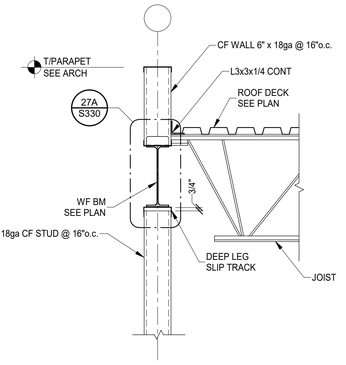
SECTION 24
SCALE 3/4" = 1'-0" S330



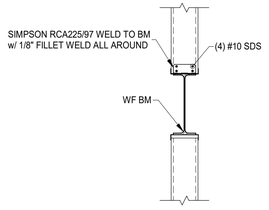
SECTION 25
SCALE 3/4" = 1'-0" S330



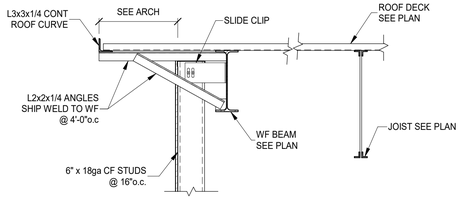
SECTION 26
SCALE 3/4" = 1'-0" S330



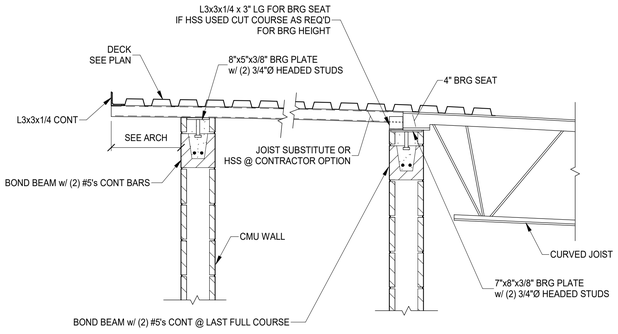
SECTION 27
SCALE 3/4" = 1'-0" S330



SECTION 27A
SCALE 3/4" = 1'-0" S330



SECTION 28
SCALE 3/4" = 1'-0" S330



SECTION 29
SCALE 3/4" = 1'-0" S330

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

NOT FOR CONSTRUCTION

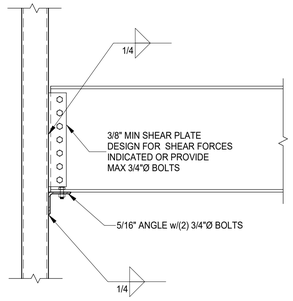
#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

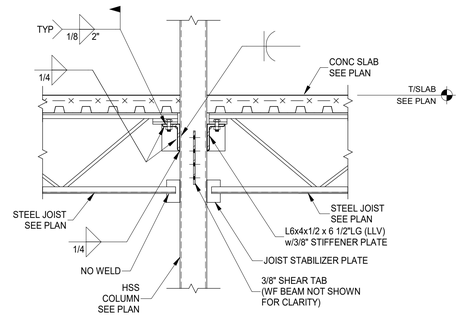
FRAMING SECTIONS

S330

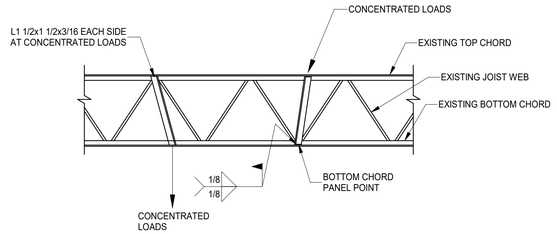
Revit 2024 02/21/2024 2:14:48 PM



TYP BEAM TO HSS COLUMN SIDE CONNECTION
SCALE 3/4" = 1'-0"

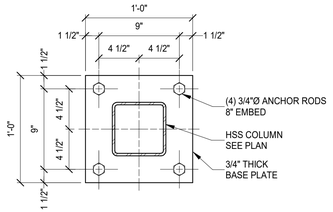


TYPICAL JOIST SEAT SUPPORT @ CONTINUOUS COLUMN
SCALE 3/4" = 1'-0"

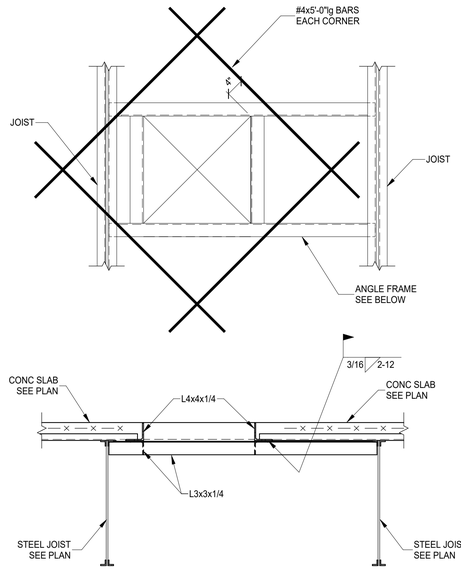


LOADS NOT AT JOIST PANEL POINTS

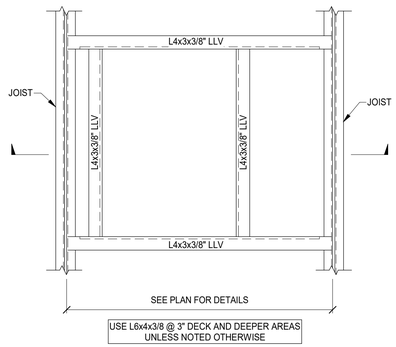
TYPICAL SUPPORT OF CONCENTRATED LOADS
SCALE 3/4" = 1'-0"

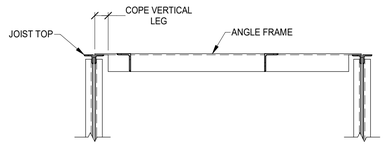


TYP HSS6x6 BASE PLATE DETAIL
SCALE 1 1/2" = 1'-0"

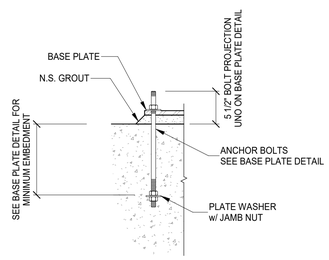


TYP FLOOR OPENING FRAMING
SCALE 3/4" = 1'-0"

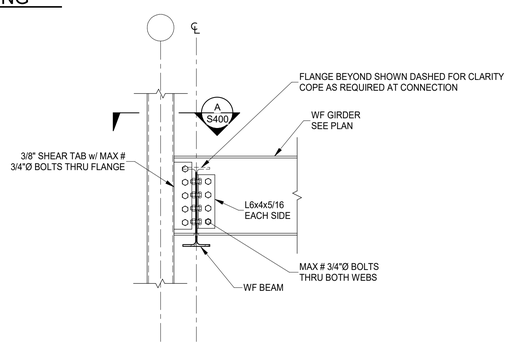




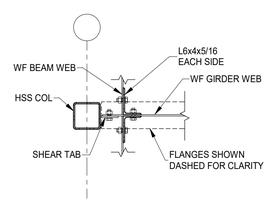
TYPICAL SUPPORT OF HVAC UNIT / FRAMED DECK OPENINGS
SCALE 3/4" = 1'-0"



T/ANCHOR BOLT DET
SCALE 1" = 1'-0"



TYP OFF SET BEAM TO GIRDER CONNECTION AT COLUMN FOR 2ND FLOOR FRAMING
SCALE 3/4" = 1'-0"



DETAIL A/S400
SCALE 3/4" = 1'-0"

advantage
STRUCTURAL ENGINEERS
1527 Madison Road
Cincinnati, OH 45206
513 396 8900
www.advantageSE.com

PREPARED FOR: EMBOSS
BOYS & GIRLS CLUB
PRICE HILL

NOT FOR CONSTRUCTION

#	Revision/Submission	Date
	BID	2/09/2024
	ADDENDUM 03	2/19/2024

Project Number: 23101.15
Design Team: STH / JTL

TYPICAL DETAILS

S400

Revit 2024 02/21/2024 2:14:49 PM

FIRE PROTECTION GENERAL NOTES

INSTALL NEW SPRINKLER SYSTEM PER NFPA 13. PROTECT CONCEALED COMBUSTIBLE SPACES AS REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS WHERE CEILING CAVITIES ARE BEING COMPLETELY FILLED WITH INSULATION.

SPRINKLERS ARE TO BE LOCATED IN THE CENTER OF ALL CEILING TILES (IN AT LEAST ONE DIRECTION).

COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.

REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.

DELEGATED FIRE SUPPRESSION DESIGN

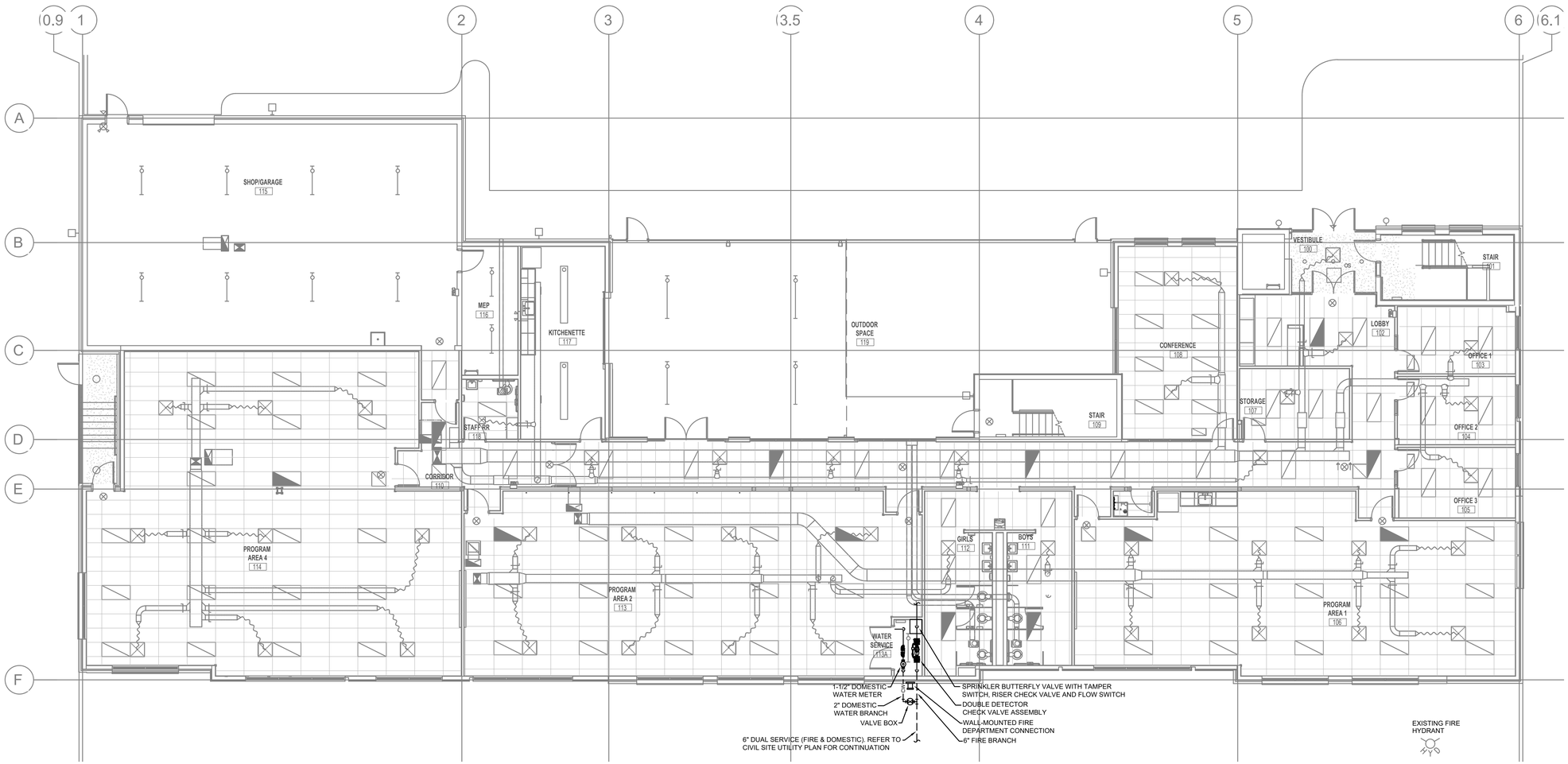
DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.

THESE DRAWINGS SHOW THE INTENDED FIRE SUPPRESSION SCOPE. THE INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED TO OBTAIN THE PERMIT. THE DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.

REQUIRED COMPONENTS THAT ARE NOT SHOWN ON THESE DRAWINGS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
	WALL-MOUNTED FIRE DEPARTMENT CONNECTION



MAGNETIC PLAN

1 / FP100 FIRE PROTECTION FIRST FLOOR PLAN

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

ISSUANCES

DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
915 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
KAS	SSS

PROJECT NO.: 10204

SCALE:AS NOTED

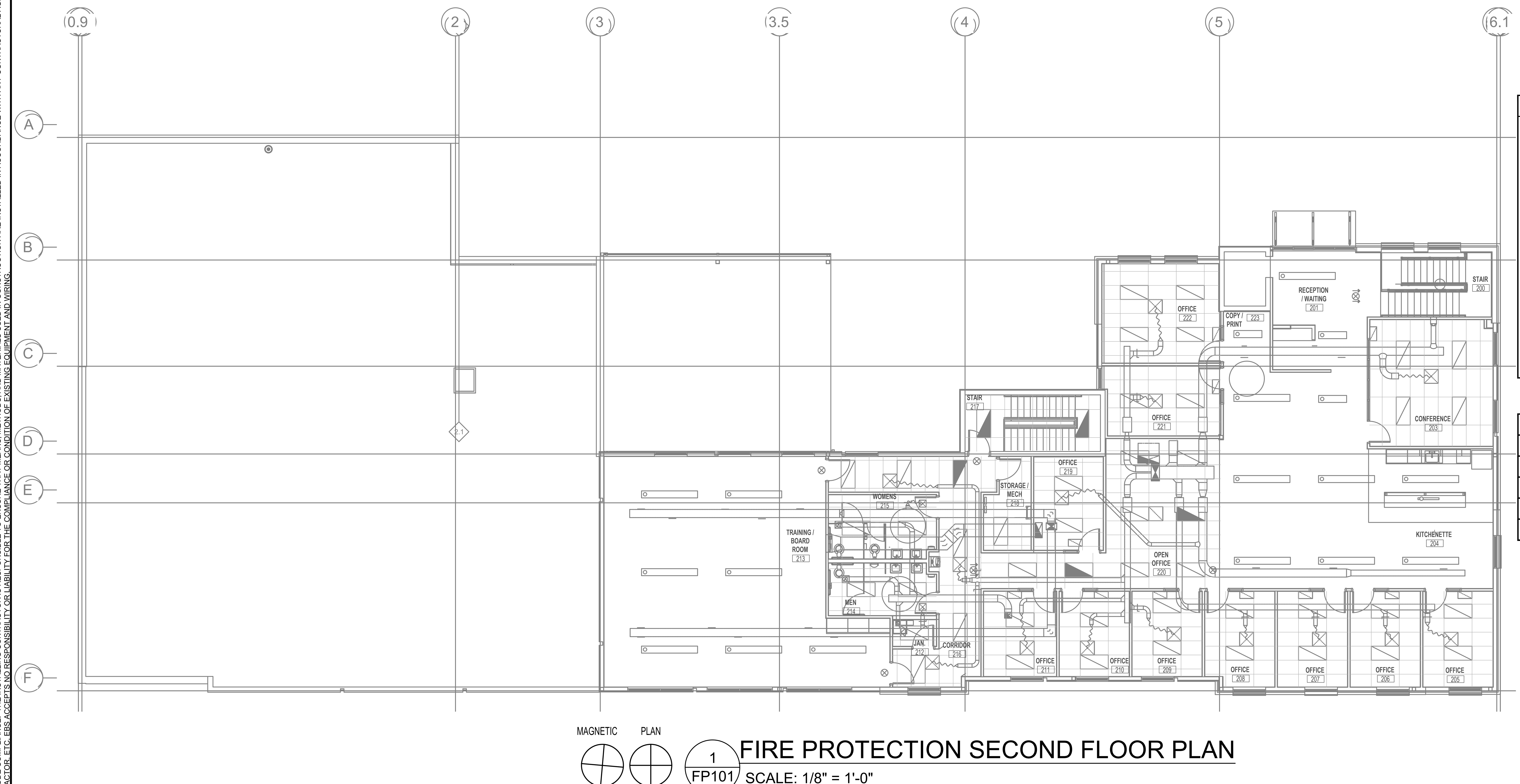
DATE: 01-08-2024

DRAWING TITLE
FIRE PROTECTION FIRST FLOOR PLAN

SHEET NO.
FP100

DIVISION 21 - FIRE SUPPRESSION

1. GENERAL FIRE SUPPRESSION REQUIREMENTS
   a. DELEGATED DESIGN - PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE PROTECTION SYSTEM, INCLUDING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE FIRE SUPPRESSION WORK. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY/AUTHORITY HAVING JURISDICTION AND INCLUDE IN SCOPE. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED FOR FIRE PROTECTION PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. ALL REQUIRED COMPONENTS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.
   b. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR'S PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE SUPPRESSION SYSTEM.
   c. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL FIRE SUPPRESSION SYSTEMS.
   d. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NFPA, AND ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
   e. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR AT HIS OWN COST MUST FURNISH HIS OWN PROFESSIONALLY ENGINEERED, SIGNED/SEALED PERMIT DRAWINGS. DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND GENERAL CONTRACTOR FOR REVIEW AND COORDINATION WITH OTHER DISCIPLINES. THIS WORK MUST BE PERFORMED PRIOR TO SUBMITTAL.
   f. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, HYDRAULIC CALCULATIONS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW CONCURRENTLY WITH SUBMITTING FOR BUILDING DEPARTMENT APPROVAL. ARCHITECT MAY REQUIRE SPRINKLER LOCATIONS TO BE MOVED FOR COORDINATION PURPOSES OR AESTHETIC REASONS.
   g. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS EXCEPT AS NOTED HEREIN WHICH APPLY IN ALL RESPECTS TO THIS SECTION.
   h. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO WORK.
   i. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY SPRINKLER PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC.
   j. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.
   k. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.
   l. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE FIRE SUPPRESSION WORK PRIOR TO BID. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE. FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS.
   m. WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE FIRE SUPPRESSION WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.
   n. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION, TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.
   o. ANY FIRE SUPPRESSION SYSTEMS SERVING OTHER AREAS OF THE BUILDING MUST REMAIN UNDISTURBED/OPERATIONAL. IF THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR IDENTIFIES ANY INSTANCES WHERE THIS WILL NOT BE ACHIEVABLE, THEY MUST REPORT THIS TO THE GENERAL CONTRACTOR PRIOR TO TOUCHING THE SYSTEM(S).
   p. CONTRACTOR TO SUBMIT DRAWINGS TO OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT. EBS WILL REVIEW DRAWINGS FOR GENERAL CONFORMANCE WITH CRITERIA DOCUMENTS. EBS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY PORTION OF THE DESIGN OR CONSTRUCTION OF THIS FACILITY.
2. USE OF INFORMATION PROVIDED BY EBS
   a. THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE PROTECTION SYSTEM ARE THE RESPONSIBILITY OF THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR.
3. CONTRACTOR COORDINATION
   a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
4. SYSTEM DESIGN
   a. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED ACCORDING TO NFPA 13.
   b. FLOW TEST INFORMATION:
      HYDRANTS FLOWED AND GAUGED WERE AT CARSON SCHOOL, JUST WEST OF THIS SITE.
      STATIC - 56 PSI
      RESIDUAL - 44 PSI
      FLOW - 830 GPM
   c. THE FLOW TEST INFORMATION ABOVE IS APPROXIMATELY 15 YEARS OLD AND WAS PERFORMED WITH HYDRANTS NEAR THE CARSON SCHOOL, JUST WEST OF THIS SITE. THE SPRINKLER CONTRACTOR SHALL PROVIDE A NEW FLOW TEST PERFORMED WITH HYDRANTS NEAREST TO THE PROPOSED BUILDING. CHANGES IN DESIGN AND ASSOCIATED ADDITIONAL COSTS INCURRED FOR USE OF INACCURATE FLOW TEST INFORMATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
   d. PROVIDE NEW 6” DUAL SERVICE WATER BRANCH FROM THE MAIN IN THE STREET PER THE GREATER CINCINNATI WATER WORKS STANDARD DETAIL 108-13E.
   e. ALL SPRINKLER PIPING SHALL BE INSTALLED ENTIRELY WITHIN THE THERMAL ENVELOPE (ON THE CONDITIONED SIDE OF THE AIR BARRIER).
   f. COMMON SPACES, OFFICES, RESTROOMS, TRAINING/CONFERENCE ROOMS, AND PROGRAM ROOMS CAN BE DESIGNED AS LIGHT HAZARD OCCUPANCIES.
   g. STORAGE ROOMS AND MECHANICAL SPACES SHALL BE DESIGNED AS ORDINARY HAZARD GROUP 1 OCCUPANCIES.
5. MONITORING/DETECTION/NOTIFICATION
   a. FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR ALL MONITORING AND ALARM DEVICES FOR THE SPRINKLER SYSTEM. FIRE ALARM PANEL WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
   b. PROVIDE FLOW SWITCH AT THE SPRINKLER SYSTEM RISER.
   c. PROVIDE TAMPER SWITCHES TO MONITOR ALL SPRINKLER CONTROL VALVES.
6. INTERIOR PIPING
   a. PIPING SMALLER THAN 2” SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 125, CAST-IRON THREADED FITTINGS. PIPING LARGER THAN 2” SHALL BE SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL GROOVED PIPE COUPLINGS (ROLL-GROOVED TYPE). 2” PIPING CAN BE SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 125, CAST-IRON THREADED FITTINGS OR SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL GROOVED PIPE COUPLINGS (ROLL-GROOVED TYPE).
7. SPRINKLERS
   a. SPRINKLERS SHALL BE LOCATED IN THE CENTER OF CEILING TILES (IN AT LEAST ONE DIRECTION).
   b. FLEXIBLE FIRE SPRINKLER CONNECTIONS ARE ACCEPTABLE. FLEXIBLE FIRE SPRINKLER CONNECTIONS SHALL BE FULLY-BRAIDED, 304 STAINLESS STEEL AND APPROVED FOR USE PER NFPA 13.
   c. SPRINKLERS IN FINISHED CEILINGS SHALL BE FULLY RECESSED WITH FLAT WHITE COVER PLATE.
   d. SPRINKLERS IN AREAS WITH NO CEILINGS SHALL BE BRASS UPRIGHT OR BRASS PENDENT.
8. ADDITIONAL STOCK
   a. PROVIDE 2 ADDITIONAL SPRINKLERS OF EACH TYPE, WRENCHES, SIGNAGE, ETC. AT PROJECT TURNOVER.
9. BACKFLOW PREVENTION
   a. PROVIDE DOUBLE DETECTOR CHECK VALVE ASSEMBLY ON FIRE SERVICE WHERE THE FIRE SERVICE ENTERS THE BUILDING.
10. FIRE DEPARTMENT CONNECTION
    a. PROVIDE FIRE DEPARTMENT CONNECTION FOR SPRINKLER SYSTEM. COORDINATE LOCATION WITH OWNER, ARCHITECT, AND FIRE DEPARTMENT.
11. HANGERS & SUPPORTS
    a. FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING.
12. ESCUTCHEON PLATES
    a. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.
13. ACCESS PANELS
    a. LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS. WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. COORDINATE ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT.
14. FIRESTOPPING
    a. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT.
    b. THE FIRESTOPPING MATERIAL SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.
15. CATHODIC PROTECTION
    a. PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.
16. EXCAVATION, TRENCHING & BACKFILL
    a. DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE INSTALLATION OF ALL FIRE SUPPRESSION WORK.
    b. ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE AND SHALL MATCH SURROUNDING CONDITIONS.
    c. RESTORE ALL DISTURBED FLOORING TO ORIGINAL CONDITION.
    d. ALL PIPING SHALL BE LAID ON A BED OF SAND, 6” THICK MINIMUM. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL.
17. CUTTING AND PATCHING
    a. CUT AND PATCH WALLS AND FLOORS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL ALL FIRE SUPPRESSION WORK.
18. INSTALLATION
    a. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR SLABS.
    b. WHERE PIPING PASSES THROUGH CONCRETE WALLS, MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOORS, AND ROOF SLABS, OPENINGS SHALL BE CUT CLEAN AROUND THE PIPING WITH NOT MORE THAN 2 INCHES OF SPACE BETWEEN THE PIPING AND THE OPENING. PIPE SLEEVES WILL BE REQUIRED WHERE THERE IS MORE THAN 2 INCHES OF SPACE BETWEEN THE PIPE AND THE OPENING.
19. TESTING
    a. ALL FIRE SUPPRESSION WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE.
20. SHOP DRAWINGS
    a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL PIPING, DEVICES, AND EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
    b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR REVIEW.
    c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.
21. OWNER'S INSTRUCTIONS
    a. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER.
22. WARRANTY
    a. THE FIRE SUPPRESSION CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND THE FIRE SUPPRESSION CONTRACTOR WILL REPAIR OR REPLACE DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER.
    b. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.



FIRE PROTECTION SECOND FLOOR PLAN

1 / FP101 SCALE: 1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

INSTALL NEW SPRINKLER SYSTEM PER NFPA 13. PROTECT CONCEALED COMBUSTIBLE SPACES AS REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS WHERE CEILING CAVITIES ARE BEING COMPLETELY FILLED WITH INSULATION.

SPRINKLERS ARE TO BE LOCATED IN THE CENTER OF ALL CEILING TILES (IN AT LEAST ONE DIRECTION).

COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.

REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.

DELEGATED FIRE SUPPRESSION DESIGN

DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.

THESE DRAWINGS SHOW THE INTENDED FIRE SUPPRESSION SCOPE. THE INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED TO OBTAIN THE PERMIT. THE DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.

REQUIRED COMPONENTS THAT ARE NOT SHOWN ON THESE DRAWINGS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—F—	FIRE SERVICE / SPRINKLER PIPING
O N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
● N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
	WALL-MOUNTED FIRE DEPARTMENT CONNECTION

ISSUANCES

DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
KAS	SSS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
FIRE PROTECTION SECOND FLOOR PLAN

SHEET NO.
FP101

PLUMBING GENERAL NOTES

A. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

B. DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR REQUIRED FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

D. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES AND HAND SINKS. VALVES SHALL MEET ASSE 1070 AND SHALL BE EQUAL TO WATTS USG-B.

E. PROVIDE SQUARE STRAINERS ON FLOOR DRAINS IN TILED AREAS.

F. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL FIXTURE MOUNTING HEIGHTS.

G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

H. COORDINATE ALL WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION; INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, AND MECHANICAL.

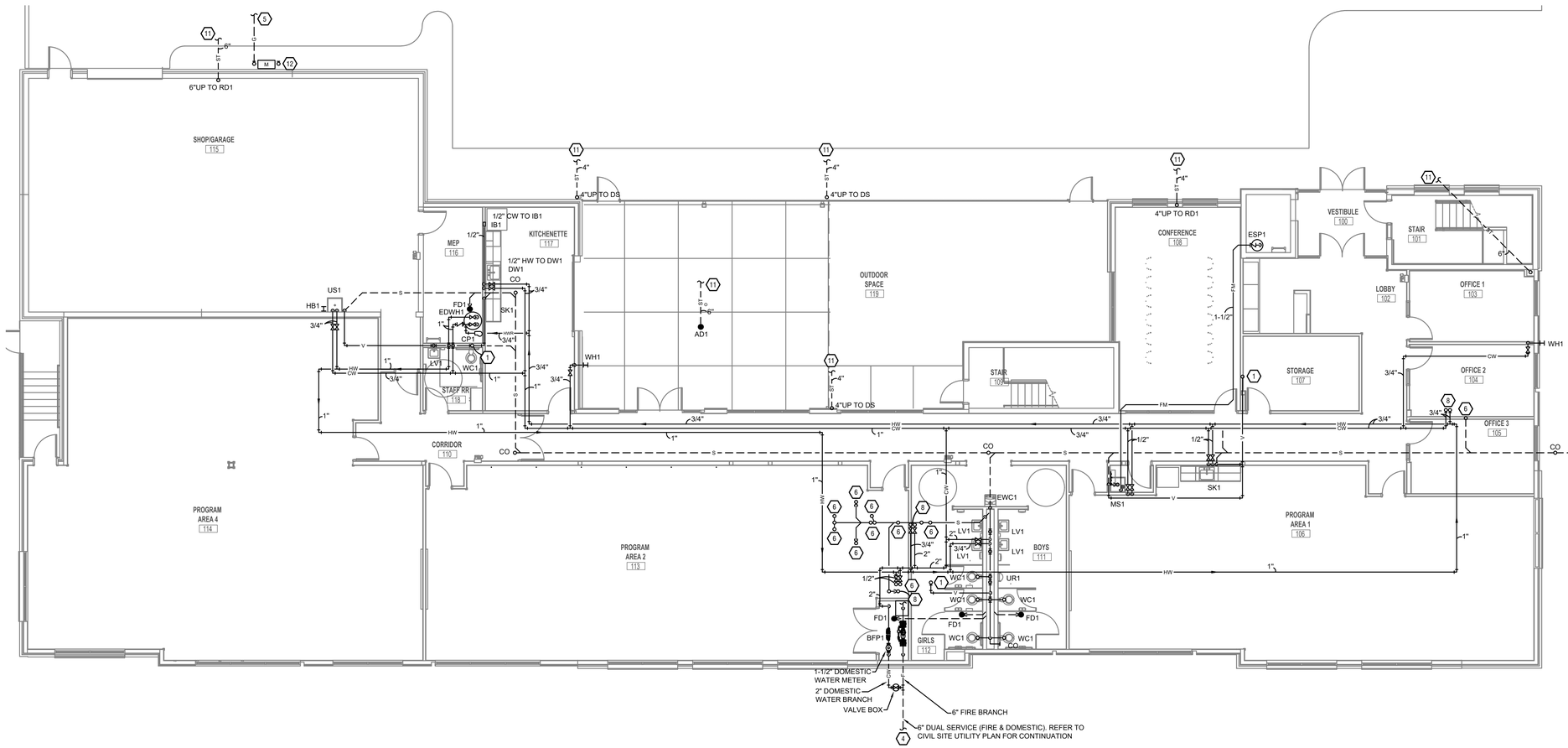
I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.

J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.

K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.

L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.

M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.



PLUMBING KEYED SHEET NOTES

1. VENT PIPING UP TO LEVEL ABOVE
2. VENT PIPING DOWN TO LEVEL BELOW
3. VENT PIPING UP THROUGH ROOF
4. NEW DOMESTIC/FIRE SERVICE PIPING, REFER TO CIVIL UTILITY PLAN
5. NEW GAS SERVICE PIPING, REFER TO CIVIL UTILITY PLAN, COORDINATE WITH UTILITY COMPANY
6. SANITARY PIPING UP TO LEVEL ABOVE
7. SANITARY PIPING DOWN TO LEVEL BELOW
8. HOT AND COLD WATER PIPING UP TO LEVEL ABOVE
9. HOT AND COLD WATER PIPING DOWN TO LEVEL BELOW
10. NEW SANITARY PIPING, REFER TO CIVIL UTILITY PLAN
11. NEW STORM PIPING, REFER TO CIVIL UTILITY PLAN
12. NEW GAS PIPING UP TO ROOF
13. GAS PIPING DOWN
14. NEW STORM PIPING TO BE ROUTED INSIDE BUILDING AT SECOND FLOOR CEILING SPACE, AS TIGHT TO CEILING STRUCTURE AS POSSIBLE

MAGNETIC PLAN

1 / P100

PLUMBING FIRST FLOOR PLAN

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

ISSUANCES

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID SET	02/12/2024

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
EAP	SSS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
PLUMBING FIRST FLOOR PLAN

SHEET NO.
P100

PLUMBING GENERAL NOTES

A. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

B. DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR REQUIRED FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

D. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES AND HAND SINKS. VALVES SHALL MEET ASSE 1070 AND SHALL BE EQUAL TO WATTS USG-B.

E. PROVIDE SQUARE STRAINERS ON FLOOR DRAINS IN TILED AREAS.

F. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL FIXTURE MOUNTING HEIGHTS.

G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

H. COORDINATE ALL WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION; INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, AND MECHANICAL.

I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.

J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.

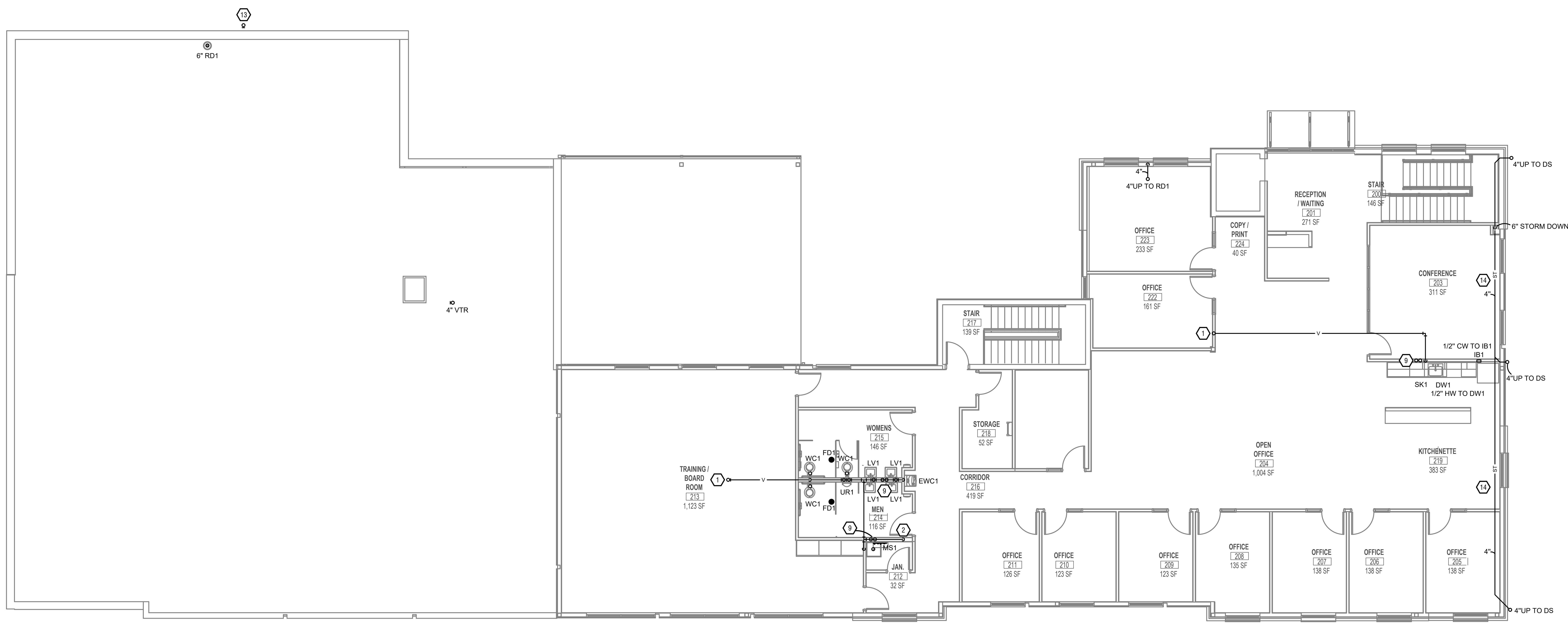
K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.

L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.

M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.

PLUMBING KEYED SHEET NOTES

1. VENT PIPING UP TO LEVEL ABOVE
2. VENT PIPING DOWN TO LEVEL BELOW
3. VENT PIPING UP THROUGH ROOF
4. NEW DOMESTIC/FIRE SERVICE PIPING, REFER TO CIVIL UTILITY PLAN
5. NEW GAS SERVICE PIPING, REFER TO CIVIL UTILITY PLAN, COORDINATE WITH UTILITY COMPANY
6. SANITARY PIPING UP TO LEVEL ABOVE
7. SANITARY PIPING DOWN TO LEVEL BELOW
8. HOT AND COLD WATER PIPING UP TO LEVEL ABOVE
9. HOT AND COLD WATER PIPING DOWN TO LEVEL BELOW
10. NEW SANITARY PIPING, REFER TO CIVIL UTILITY PLAN
11. NEW STORM PIPING, REFER TO CIVIL UTILITY PLAN
12. NEW GAS PIPING UP TO ROOF
13. GAS PIPING DOWN
14. NEW STORM PIPING TO BE ROUTED INSIDE BUILDING AT SECOND FLOOR CEILING SPACE, AS TIGHT TO CEILING STRUCTURE AS POSSIBLE



MAGNETIC PLAN

1 / P101 **PLUMBING SECOND FLOOR PLAN**

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

ISSUANCES		
DATE	NO	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.

Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
EAP	SSS

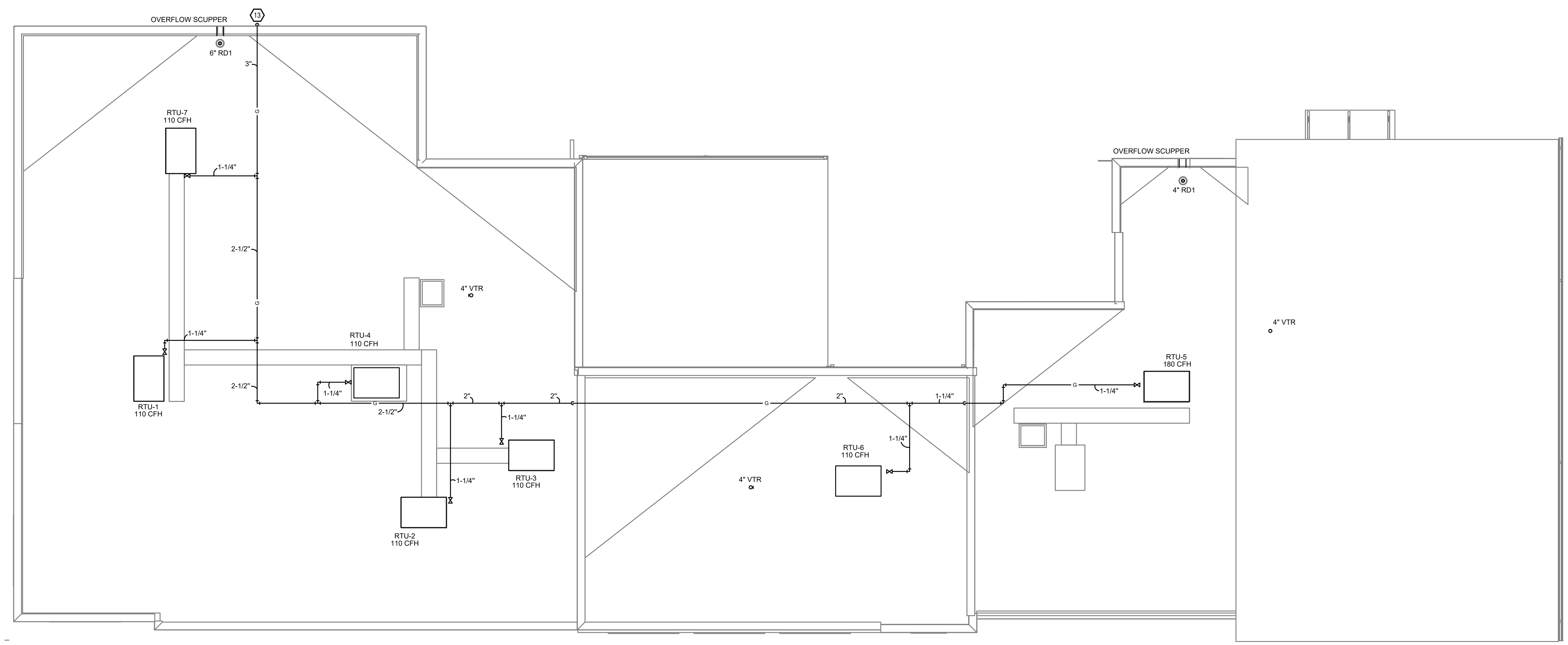
PROJECT NO.: 10204

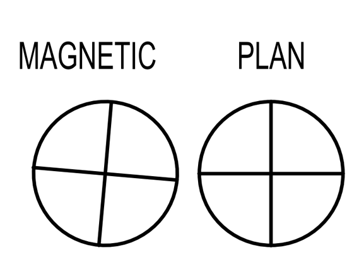
SCALE: AS NOTED

DATE: 01-08-2024

DRAWING TITLE
PLUMBING SECOND FLOOR PLAN

SHEET NO.
P101





1
P102

PLUMBING ROOF PLAN

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

PLUMBING GENERAL NOTES

A. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

B. DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR REQUIRED FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

D. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES AND HAND SINKS. VALVES SHALL MEET ASSE 1070 AND SHALL BE EQUAL TO WATTS USG-B.

E. PROVIDE SQUARE STRAINERS ON FLOOR DRAINS IN TILED AREAS.

F. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL FIXTURE MOUNTING HEIGHTS.

G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

H. COORDINATE ALL WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION; INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, AND MECHANICAL.

I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.

J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.

K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.

L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.

M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.

PLUMBING KEYED SHEET NOTES

1. VENT PIPING UP TO LEVEL ABOVE
2. VENT PIPING DOWN TO LEVEL BELOW
3. VENT PIPING UP THROUGH ROOF
4. NEW DOMESTIC/FIRE SERVICE PIPING, REFER TO CIVIL UTILITY PLAN
5. NEW GAS SERVICE PIPING, REFER TO CIVIL UTILITY PLAN, COORDINATE WITH UTILITY COMPANY
6. SANITARY PIPING UP TO LEVEL ABOVE
7. SANITARY PIPING DOWN TO LEVEL BELOW
8. HOT AND COLD WATER PIPING UP TO LEVEL ABOVE
9. HOT AND COLD WATER PIPING DOWN TO LEVEL BELOW
10. NEW SANITARY PIPING, REFER TO CIVIL UTILITY PLAN
11. NEW STORM PIPING, REFER TO CIVIL UTILITY PLAN
12. NEW GAS PIPING UP TO ROOF
13. GAS PIPING DOWN
14. NEW STORM PIPING TO BE ROUTED INSIDE BUILDING AT SECOND FLOOR CEILING SPACE, AS TIGHT TO CEILING STRUCTURE AS POSSIBLE

ISSUANCES

DATE	NO	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
EAP	SSS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
PLUMBING ROOF PLAN

SHEET NO.
P102

GAS INPUT SCHEDULE FOR BOYS AND GIRLS CLUB PRICE HILL	
SERVICE ADDRESS: 4122 GLENWAY AVE. CINCINNATI OH, 45205	
TOTAL EQUIVALENT LENGTH OF PIPE: 260'	GAS SERVICE LENGTH: N/A
REQUIRED DELIVERY PRESSURE:7" W.C.	NUMBER OF METERS: 1
EQUIPMENT	LOAD (CFH)
RTU-1	110
RTU-2	110
RTU-3	110
RTU-4	110
RTU-5	180
RTU-6	110
RTU-7	110
BUILDING TOTAL	840

PLUMBING EQUIPMENT AND FIXTURE SCHEDULE

WC1 - WATER CLOSET, MANUAL FLUSH - WATERSENSE STANDARD - EQUAL TO KOHLER MODEL HIGHCLIFF ULTRA K-96057 ELONGATED TOILET BOWL, WHITE, WITH INTEGRAL STOPS AND TRAP, FLOOR MOUNTED, WHITE SEAT WITH CONCEALED CHECK HINGE STOPS. MOUNTED AT HEIGHT REQUIRED BY CODE. PROVIDE FLUSH VALVE EQUAL TO KOHLER MODEL K-80TM00N10-CP MANUAL 1.28 GPF WC FLUSHOMETER.

LV1 - LAVATORY SINK, EQUAL TO KOHLER MODEL K-2005-0, VITREOUS CHINA, 22"X18" WALL HUNG LAVATORY W/ KOHLER K-15198-F-CP SINGLE LEVER POLISHED CHROME FAUCET WITH 0.5 GPM AERATOR, FLEXIBLE STAINLESS SUPPLY PIPES, ANGLE STOPS, "P" TRAP, POPUP DRAIN, AND PROFLO #PF200TRAP COVER. PROVIDE FLOOR MOUNTED CARRIERS FOR WALL MOUNTED SINKS.

FD1 - FLOOR DRAIN, EQUAL TO SIOUX CHIEF MODEL 842-P WITH NICKEL BRONZE ADJUSTABLE STRAINER. PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE. REFER TO WASTE AND VENT ISOMETRIC FOR SIZES.

MS1 - MOP SINK, EQUAL TO PROFLO MODEL PFMB2424, 24" X 24" X 10" MOP SINK BASIN MOEN #8230 W/ CHROME PLATED TWO-HANDLE SERVICE SINK FAUCET, STRAINER, DRAIN SHALL BE 3" IPS HUB OUTLET, P-TRAP WITH ADJUSTABLE FLOOR FLANGE. PROVIDE PROFLO #PF296 HOSE BRACKET AND STAINLESS STEEL WALL GUARDS.

EDWH1 - ELECTRIC DOMESTIC WATER HEATER, EQUAL TO A.O. SMITH DSE-40-9, 40 GALLON, 9 KW, 208V 3/PH, ROUTE T&P VALVE AND OVERFLOW TO EXISTING FLOOR DRAIN, PROVIDE AMTROL 2 GALLON EXPANSION TANK

UR1 - URINAL, EQUAL TO KOHLER MODEL K-4904-ET WITH SLOAN MODEL 186-0.125 SMO BATTERY OPERATED FLUSH VALVE. PROVIDE FLOOR MOUNTED CARRIERS.

HB1 - HOSE BIB, EQUAL TO WOODFORD MODEL 24P-1/2", LESS HANDLE, AND PROVIDE "OPTIONAL LOOSE TEE KEY", VACUUM BREAKER - ANTI-SIPHON, CHROME FINISH.

WH1 - WALL HYDRANT, EQUAL TO WOODFORD MODEL B-67 3/4". PROVIDE FROST-PROOF EXTERIOR WALL HYDRANTS WITH LOOSE-TEE KEYS ON EACH ELEVATION OF BUILDING. WALL HYDRANTS SHALL BE WALL HYDRANT WITH CHROME FINISH ON BRASS CASTING WITH BOX AND HINGED, DOOR. CONCEAL WITHIN INTERIOR PARTITIONS AND/OR INSTALL IN A MANNER THAT PREVENTS FREEZING. FURNISH TO OWNER, ONE VALVE KEY FOR EACH KEY OPERATED WALL HYDRANT INSTALLED. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE ZURN, WADE, JOSAM, SMITH, OR WATTS.

SK1 - SINK, EQUAL TO ELKAY MODEL LRAD312255 ONE COMPARTMENT STAINLESS STEEL SELF-RIMMING 18 GAUGE WITH 5-1/2" DEEP BOWL, SINBGLE-HOLE WITH LK5000 FAUCET WITH LK-99 CRUMB CUP STRAINER AND DRAIN. PROVIDE WITH 1-1/2 17-GAGE "P" TRAP AND 1/2" HOT AND COLD WATER STOPS. BADGER 1 GARBAGE DISPOSAL & KEENEY #535SN DISPOSER KIT ASSEMBLY.

EWC1 - ELECTRIC WATER COOLER, EQUAL TO HAWS MODEL 1212SF, HI-LO BARRIER-FREE, WALL MOUNTED, DUAL SATIN FINISH STAINLESS STEEL WITH BACK PANEL. 100% LEAD FREE. WITH BOTTLE FILLER

CP1 - HOT WATER CIRCULATION PUMP, EQUAL TO BELL AND GOSSETT SERIES 100, 1/12 HP, 1 PHASE, 115V, 1.75 F.L. AMPS WITH TIMER KIT COORDINATED WITH OWNERS OPERATION HOURS. PLUMBING CONTRACTOR SHALL PROVIDE ALL SHUT-OFF, CHECK AND BALANCING VALVES AS NECESSARY.

ESP1 - ELEVATOR SUMP PUMP, REFER TO PLUMBING SPECIFICATIONS

US1 - UTILITY SINK, EQUAL TO MUSTEE MODEL 19CFT UTILATUB COMBO. ONE PIECE MOLDED CONSTRUCTION, 18 GALLON CAPACITY KIT WHICH INCLUDES FAUCET, FLEXIBLE SUPPLY HOSES, PVC TRAP AND TAILPIECE, TOP COVER, AND DRAIN STOPPER.

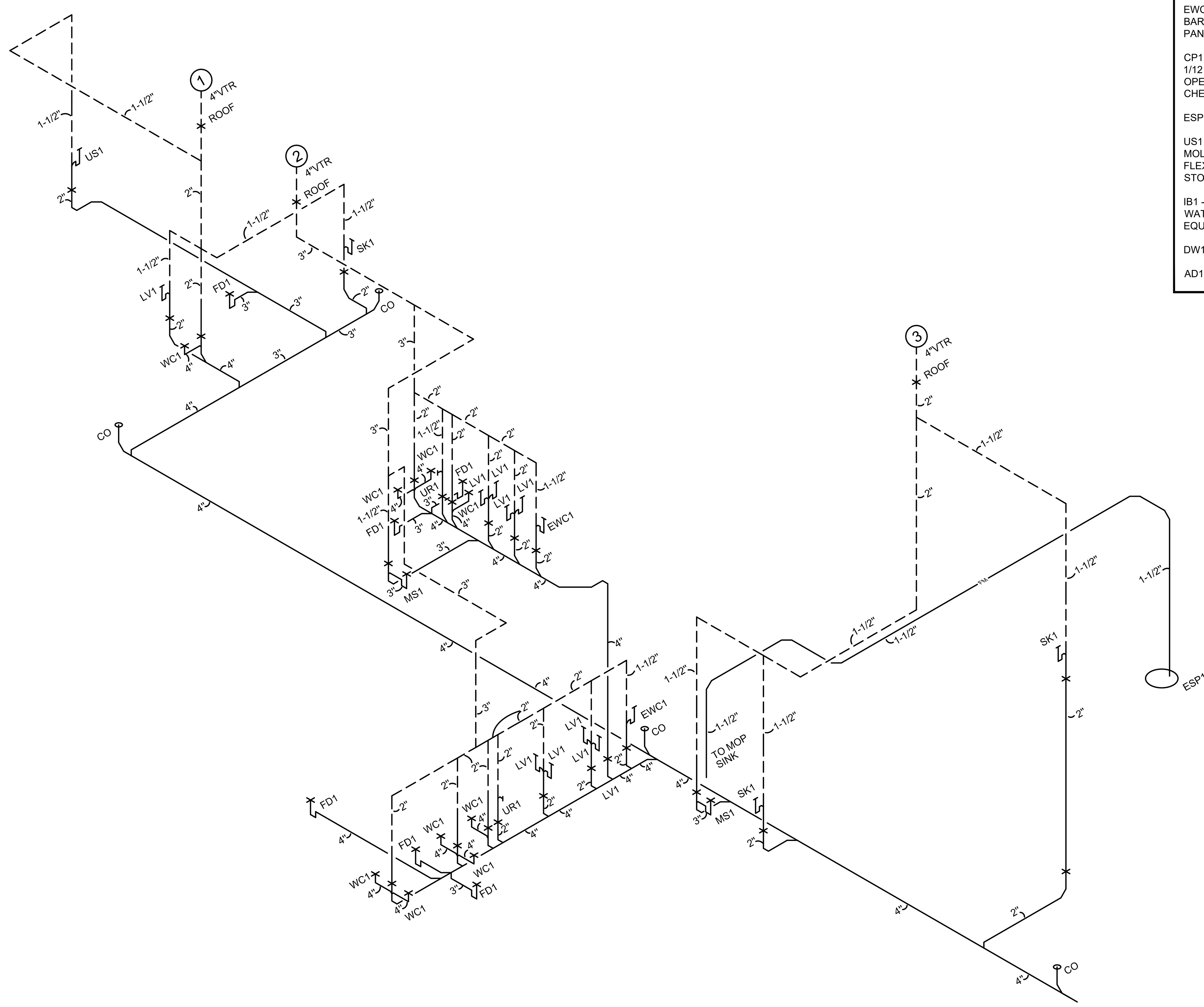
IB1 - ICE MAKER BOX, EQUAL TO ACCOR MODEL FLOWTITE OBP05-2, ICE MAKER WATER SUPPLY BOX. PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL EQUAL TO ACCOR MODEL FR-12.

DW1 - DISHWASHER, COORDINATE WITH OWNER/ARCHITECT

AD1 - AREA DRAIN, EQUAL TO SIOUX CHIEF MODEL 842 SERIES.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
— — S — —	SANITARY WASTE PIPING
—— V ——	VENT PIPING
—— CW ——	COLD WATER PIPING
—— HW ——	HOT WATER PIPING
—— HWR ——	HOT WATER RETURN PIPING
—— G ——	NATURAL GAS PIPING
—— ST ——	STORM PIPING
FD ●	FLOOR DRAIN
FS ■	FLOOR SINK
RD ◎	ROOF DRAIN
——⋈——	BALL VALVE
——N——	CHECK VALVE
CO ○	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
HB H	HOSE BIBB
⊃	HOT WATER RETURN PUMP



1
P200
PLUMBING ISOMETRIC
NOT TO SCALE

ISSUANCES		
DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
EAP	SSS

PROJECT NO.: 10204
SCALE:AS NOTED
DATE: 01-08-2024
DRAWING TITLE
PLUMBING DETAILS, SCHEDULES, AND ISOMETRIC
SHEET NO.
P200

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
CD 3W-2	3-WAY THREE CONE DIFFUSER	24x24	6Ø	TITUS PAS	ADJUSTABLE DISCHARGE PATTERN
CD 4W-1	4-WAY THREE CONE DIFFUSER	12x12	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-3	4-WAY THREE CONE DIFFUSER	24x24	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-4	4-WAY THREE CONE DIFFUSER	24x24	8Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-5	4-WAY THREE CONE DIFFUSER	24x24	10Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
EG-1	ALUMINUM RETURN GRILLE, 35 DEGREE DEFLECTION, 3/4" BLADE SPACING	8x8	6x6	TITUS 350FS	STANDARD FINISH: #26 WHITE
EG-3	ALUMINUM RETURN GRILLE, 35 DEGREE DEFLECTION, 3/4" BLADE SPACING	12x12	10x10	TITUS 350FS	STANDARD FINISH: #26 WHITE
LV-1	4" DRAINABLE BLADE LOUVER. EXTRUDED ALUMINUM STATIONARY LOUVER	18x12	18x12	GREENHECK ESJ-401-18X12	ALUMINUM CONSTRUCTION
LV-2	LOUVER WALL VENT, 26 GAUGE GALVANIZED/POWDER COATED STEEL BODY	6x6	4Ø	DRYERWALL VENT/DWV4	
RG-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	30x12	28x10	TITUS 350	#26 WHITE FINISH. OPPOSED BLADE DAMPER
RG-2	EGGCRATE RETURN GRILLE	24x12	22x10	TITUS 50F	#26 WHITE FINISH.
RG-3	EGGCRATE RETURN GRILLE	24x24	22x22	TITUS 50F	#26 WHITE FINISH.
SR-1	ALUMINUM DIRECT SPIRAL DUCT MOUNTED, DOUBLE DEFLECTION SUPPLY GRILLE WITH RADIUS END CAP	12x6	12x6	TITUS S300FL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SR-2	STEEL DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION.	12x8	10x6	TITUS 300RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.

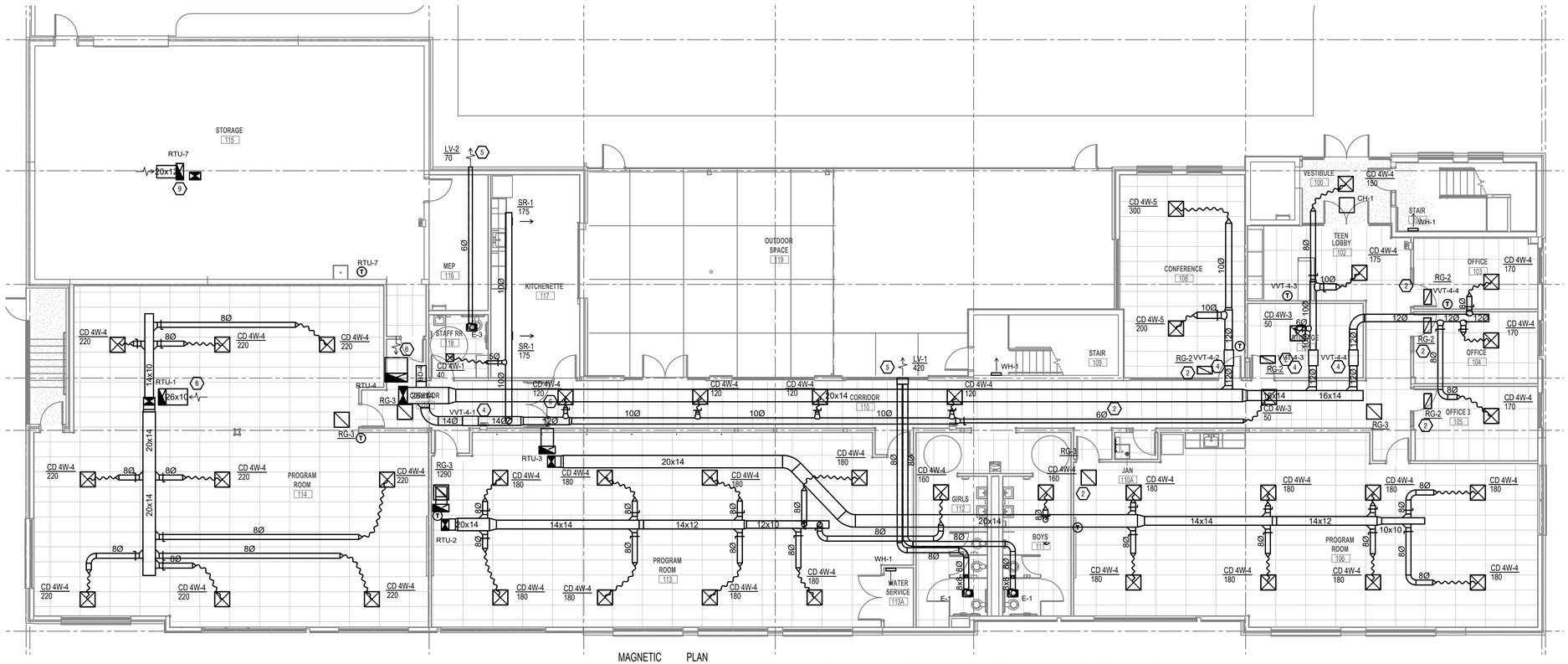
10204 BOYS AND GIRLS PRICE HILL

NOTES FOR ALL AIR DEVICES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING TYPE
2. DUCT RUN-OUT SAME SIZE AS NECK UNLESS NOTED OTHERWISE
3. PLASTER FRAME WHERE LOCATED IN GYPSUM CEILING
4. PAINT DUCTWORK THAT IS VISIBLE BEHIND AIR DEVICES MATTE BLACK
5. AIR DEVICES SHALL BE ALUMINUM IN HIGH MOISTURE AREAS. (RESTROOMS)
6. PROVIDE SAMPLE AIR DEVICES STYLE AND COLOR, FOR OWNER'S REPRESENTATIVE APPROVAL, BEFORE ORDERING FINAL AIR DEVICES.
7. ADD INSULATION TO THE BACK OF ALL AIR DEVICES WHERE DUCTWORK ALSO REQUIRES INSULATION.

SYMBOLS LEGEND – HVAC

T	THERMOSTAT
	CEILING DIFFUSER
	SIDE WALL GRILL
	RETURN WALL GRILL
	AIR FLOW DIRECTION
14x10	DUCTWORK
14x10	LINED DUCTWORK
	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
	TYPICAL EXHAUST DUCT
	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
DS	DUCT SMOKE DETECTOR
	MVD MANUAL VOLUME DAMPER
MOD	MOD MOTOR OPERATED DAMPER
	DROPPED CEILING/SOFFIT
	DUCT CONTINUATION
COND	CONDENSATE PIPING



MAGNETIC PLAN 1 M100

MECHANICAL FIRST FLOOR PLAN

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

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

INSTALL (7) ROOF TOP UNITS ON FLAT ROOF. (2) RTU's will have VVT'S. (4-5) PER UNIT. INSTALL (4) EXHAUST FANS. INSTALL DUCTWORK, AIR DEVICES AND BALANCE SYSTEM. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL ROOF TOP ON FLAT ROOF. PROVIDE 14" CURB. INSTALL CONDENSATE TRAP ON RTU. RTU-1,2,3,4 & 7 ARE ON LOWER ROOF. RTU-5 & 6 ARE ON UPPER ROOF ABOVE SECOND FLOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR ROOF ELEVATIONS.
2. PROVIDE 1" INTERNALLY LINDED RETURN DUCT BOOT FOR SOUND REDUCTION SEE DETAIL ON M200. COORDINATE WALLS WITH ARCHITECT IN PLENUM CEILING AREA. IF WALLS GO TO DECK PROVIDE TRANSFER OPENING FOR RETURN AIR BACK TO RTU.
3. INSTALL ROOF TOP VVT CONTROL PANELS IN LOCATION SHOWN. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS.
4. INSTALL 22 GAUGE 2 WIRE SHIELDED COMMUNICATION WIRE TO VVT BOX. REFER TO O&M SPECIFICATIONS FOR TERMINATING WIRES.
5. ROUTE EXHAUST DUCTWORK ABOVE SUPPLY DUCT AND OVER TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 5.1. 3' FROM PROPERTY LINE.
   - 5.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
   - 5.3. 10' FROM MECHANICAL AIR INTAKE
6. INSTALL MESH SCREEN ON END OF RETURN DUCT.
7. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
8. EXTEND RETURN AIR BOOT THROUGH WALL, WHERE WALL GOES TO DECK. BOOT FITTING TO BE FLUSH WITH WALL.
9. INSTALL DROP BOX DIFFUSER EQUIVALENT TO AIRKITEK MODEL TDAVI-6 ON BOTTOM SIDE OF SUPPLY DROP. INSTALL RETURN DROP TRANSITION TO 20"X12" DUCT WITH BIRDSCREEN ON OPEN END. SEE M200 FOR DETAIL OF DROP BOX DIFFUSER.
10. EXPOSED SPIRAL DUCTWORK TO BE DOUBLEWALL PAINTGRIP.

GENERAL NOTES

A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS.

B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.

D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.

E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.

F. MAINTAIN ALL CODE REQUIRED SERVICE CLEARANCES. FOLLOW CLEARANCE TO COMBUSTIBLE DISTANCE PER MANUFACTURER'S INSTRUCTIONS.

G. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.

H. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. INDOOR TEMPERATURES FOR RTU VVT SYSTEMS SHALL BE CONTROLLED THROUGH AVERAGING SENSORS IN THE SPACE. SENSORS SHALL COMMUNICATE WITH CONTROL PANEL LOCATED IN EACH MECHANICAL/STORAGE 218. CONSTANT VOLUME ROOF TOPS WILL HAVE STAND ALONE THERMOSTATS IN SPACE.

K. MAINTAIN CODE REQUIRED CLEARANCE TO COMBUSTIBLES FOR ALL GAS-FIRED EQUIPMENT.

ISSUANCES

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/09/2024
2	BID SET	02/12/2024

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
915 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
CAG	SSS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
MECHANICAL FIRST FLOOR PLAN

SHEET NO.
M100

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

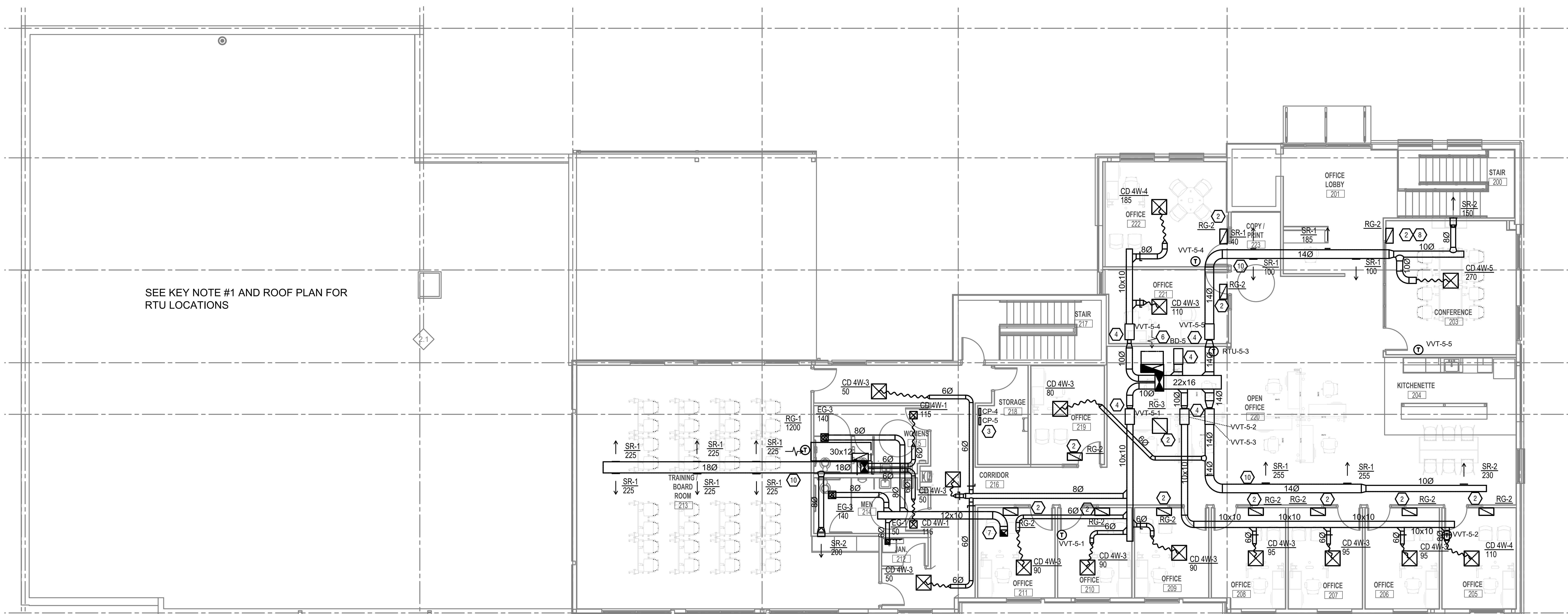
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
CD 3W-2	3-WAY THREE CONE DIFFUSER	24x24	6Ø	TITUS PAS	ADJUSTABLE DISCHARGE PATTERN
CD 4W-1	4-WAY THREE CONE DIFFUSER	12x12	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-3	4-WAY THREE CONE DIFFUSER	24x24	6Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-4	4-WAY THREE CONE DIFFUSER	24x24	8Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
CD 4W-5	4-WAY THREE CONE DIFFUSER	24x24	10Ø	TITUS TMS	REMOVABLE CORE FROM FACE OF DIFFUSER. INSULATE BACK OF DIFFUSER.
EG-1	ALUMINUM RETURN GRILLE, 35 DEGREE DEFLECTION, 3/4" BLADE SPACING	8x8	6x6	TITUS 350FS	STANDARD FINISH: #26 WHITE
EG-3	ALUMINUM RETURN GRILLE, 35 DEGREE DEFLECTION, 3/4" BLADE SPACING	12x12	10x10	TITUS 350FS	STANDARD FINISH: #26 WHITE
LV-1	4" DRAINABLE BLADE LOUVER. EXTRUDED ALUMINUM STATIONARY LOUVER	18x12	18x12	GREENHECK ESJ-401-18X12	ALUMINUM CONSTRUCTION
LV-2	LOUVER WALL VENT, 26 GAUGE GALVANIZED/POWDER COATED STEEL BODY	6x6	4Ø	DRYERWALL VENT/DWV4	
RG-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	30x12	28x10	TITUS 350	#26 WHITE FINISH. OPPOSED BLADE DAMPER
RG-2	EGGCRATE RETURN GRILLE	24x12	22x10	TITUS 50F	#26 WHITE FINISH.
RG-3	EGGCRATE RETURN GRILLE	24x24	22x22	TITUS 50F	#26 WHITE FINISH.
SR-1	ALUMINUM DIRECT SPIRAL DUCT MOUNTED, DOUBLE DEFLECTION SUPPLY GRILLE WITH RADIUS END CAP	12x6	12x6	TITUS S300FL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SR-2	STEEL DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION.	12x8	10x6	TITUS 300RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.

10204 BOYS AND GIRLS PRICE HILL

NOTES FOR ALL AIR DEVICES:
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING TYPE
2. DUCT RUN-OUT SAME SIZE AS NECK UNLESS NOTED OTHERWISE
3. PLASTER FRAME WHERE LOCATED IN GYPSUM CEILING
4. PAINT DUCTWORK THAT IS VISIBLE BEHIND AIR DEVICES MATTE BLACK
5. AIR DEVICES SHALL BE ALUMINUM IN HIGH MOISTURE AREAS. (RESTROOMS)
6. PROVIDE SAMPLE AIR DEVICES STYLE AND COLOR, FOR OWNER'S REPRESENTATIVE APPROVAL, BEFORE ORDERING FINAL AIR DEVICES.
7. ADD INSULATION TO THE BACK OF ALL AIR DEVICES WHERE DUCTWORK ALSO REQUIRES INSULATION.

SYMBOLS LEGEND – HVAC

T	THERMOSTAT
	CEILING DIFFUSER
	SIDE WALL GRILL
	RETURN WALL GRILL
	AIR FLOW DIRECTION
14x10	DUCTWORK
14x10	LINED DUCTWORK
	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
	TYPICAL EXHAUST DUCT
	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
DS	DUCT SMOKE DETECTOR
	MVD MANUAL VOLUME DAMPER
MOD	MOD MOTOR OPERATED DAMPER
	DROPPED CEILING/SOFFIT
	DUCT CONTINUATION
COND	CONDENSATE PIPING



MAGNETIC PLAN

1 M101 MECHANICAL SECOND FLOOR PLAN

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

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

INSTALL (7) ROOF TOP UNITS ON FLAT ROOF. (2) RTU's will have VVT'S, (4-5) PER UNIT. INSTALL (4) EXHAUST FANS. INSTALL DUCTWORK, AIR DEVICES AND BALANCE SYSTEM. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL ROOF TOP ON FLAT ROOF. PROVIDE 14" CURB. INSTALL CONDENSATE TRAP ON RTU. RTU-1,2,3,4 & 7 ARE ON LOWER ROOF. RTU-5 & 6 ARE ON UPPER ROOF ABOVE SECOND FLOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR ROOF ELEVATIONS.
2. PROVIDE 1" INTERNALLY LINDED RETURN DUCT BOOT FOR SOUND REDUCTION SEE DETAIL ON M200. COORDINATE WALLS WITH ARCHITECT IN PLENUM CEILING AREA. IF WALLS GO TO DECK PROVIDE TRANSFER OPENING FOR RETURN AIR BACK TO RTU.
3. INSTALL ROOF TOP VVT CONTROL PANELS IN LOCATION SHOWN. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS.
4. INSTALL 22 GAUGE 2 WIRE SHIELDED COMMUNICATION WIRE TO VVT BOX. REFER TO O&M SPECIFICATIONS FOR TERMINATING WIRES.
5. ROUTE EXHAUST DUCTWORK ABOVE SUPPLY DUCT AND OVER TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 5.1. 3' FROM PROPERTY LINE.
   - 5.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
   - 5.3. 10' FROM MECHANICAL AIR INTAKE
6. INSTALL MESH SCREEN ON END OF RETURN DUCT.
7. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
8. EXTEND RETURN AIR BOOT THROUGH WALL, WHERE WALL GOES TO DECK. BOOT FITTING TO BE FLUSH WITH WALL.
9. INSTALL DROP BOX DIFFUSER EQUIVALENT TO AIRKITEK MODEL TDAVI-6 ON BOTTOM SIDE OF SUPPLY DROP. INSTALL RETURN DROP TRANSITION TO 20"X12" DUCT WITH BIRDSCREEN ON OPEN END. SEE M200 FOR DETAIL OF DROP BOX DIFFUSER.
10. EXPOSED SPIRAL DUCTWORK TO BE DOUBLEWALL PAINTGRIP.

GENERAL NOTES

A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS.

B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.

D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.

E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.

F. MAINTAIN ALL CODE REQUIRED SERVICE CLEARANCES. FOLLOW CLEARANCE TO COMBUSTIBLE DISTANCE PER MANUFACTURER'S INSTRUCTIONS.

G. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.

H. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. INDOOR TEMPERATURES FOR RTU VVT SYSTEMS SHALL BE CONTROLLED THROUGH AVERAGING SENSORS IN THE SPACE. SENSORS SHALL COMMUNICATE WITH CONTROL PANEL LOCATED IN EACH MECHANICAL/STORAGE 218. CONSTANT VOLUME ROOF TOPS WILL HAVE STAND ALONE THERMOSTATS IN SPACE.

K. MAINTAIN CODE REQUIRED CLEARANCE TO COMBUSTIBLES FOR ALL GAS-FIRED EQUIPMENT.

ISSUANCES

DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204
ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
CAG	SSS

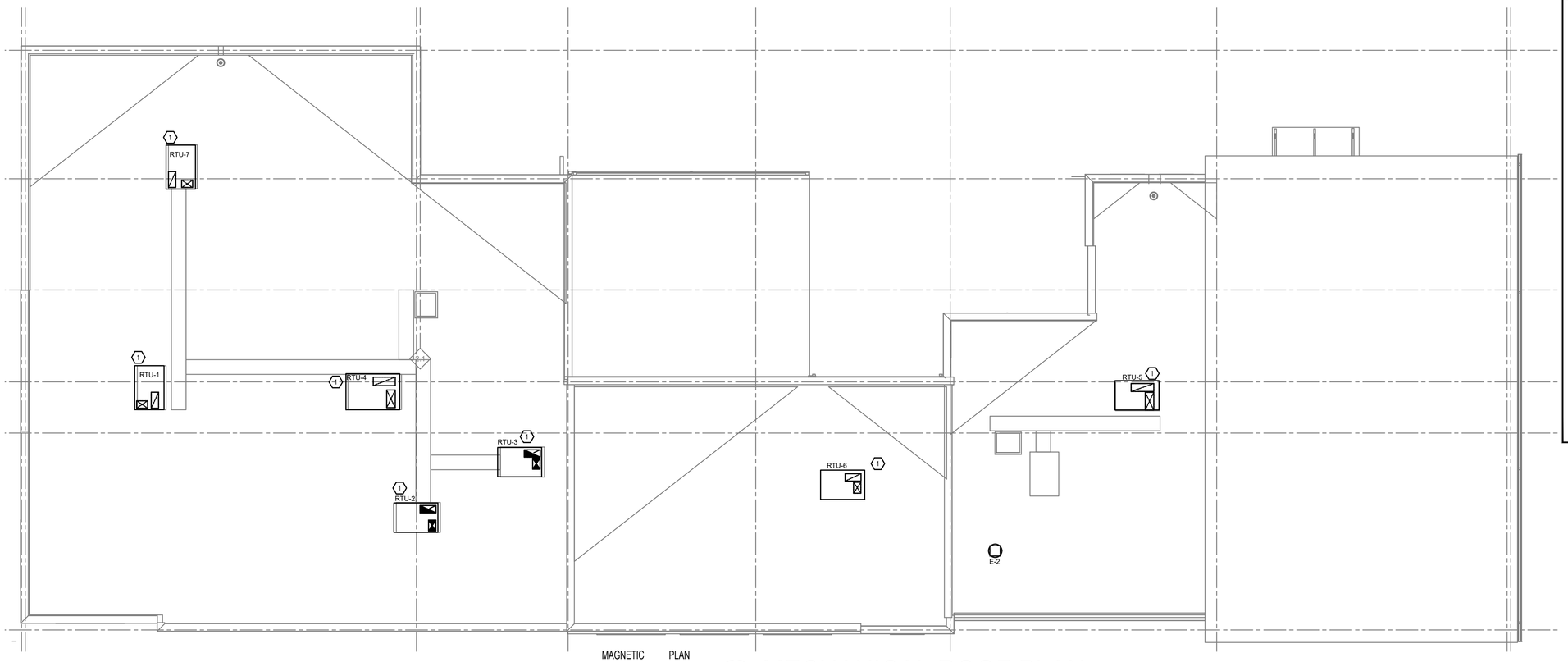
PROJECT NO.: 10204

SCALE: AS NOTED

DATE: 01-08-2024

DRAWING TITLE
MECHANICAL SECOND FLOOR PLAN

SHEET NO.
M101



MAGNETIC PLAN

1 / M102 MECHANICAL ROOF PLAN

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

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

INSTALL (7) ROOF TOP UNITS ON FLAT ROOF. (2) RTU's will have VVT'S, (4-5) PER UNIT. INSTALL (4) EXHAUST FANS. INSTALL DUCTWORK, AIR DEVICES AND BALANCE SYSTEM. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010

HVAC DESIGN CONDITIONS

COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 72	INDOOR: 70

KEYED SHEET NOTES

1. INSTALL ROOF TOP ON FLAT ROOF. PROVIDE 14" CURB. INSTALL CONDENSATE TRAP ON RTU. RTU-1,2,3,4 & 7 ARE ON LOWER ROOF. RTU-5 & 6 ARE ON UPPER ROOF ABOVE SECOND FLOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR ROOF ELEVATIONS.
2. PROVIDE 1" INTERNALLY LINDED RETURN DUCT BOOT FOR SOUND REDUCTION SEE DETAIL ON M200. COORDINATE WALLS WITH ARCHITECT IN PLENUM CEILING AREA. IF WALLS GO TO DECK PROVIDE TRANSFER OPENING FOR RETURN AIR BACK TO RTU.
3. INSTALL ROOF TOP VVT CONTROL PANELS IN LOCATION SHOWN. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS.
4. INSTALL 22 GAUGE 2 WIRE SHIELDED COMMUNICATION WIRE TO VVT BOX. REFER TO O&M SPECIFICATIONS FOR TERMINATING WIRES.
5. ROUTE EXHAUST DUCTWORK ABOVE SUPPLY DUCT AND OVER TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
   - 5.1. 3' FROM PROPERTY LINE.
   - 5.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
   - 5.3. 10' FROM MECHANICAL AIR INTAKE
6. INSTALL MESH SCREEN ON END OF RETURN DUCT.
7. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
8. EXTEND RETURN AIR BOOT THROUGH WALL, WHERE WALL GOES TO DECK. BOOT FITTING TO BE FLUSH WITH WALL.
9. INSTALL DROP BOX DIFFUSER EQUIVALENT TO AIRKITEK MODEL TDAVI-6 ON BOTTOM SIDE OF SUPPLY DROP. INSTALL RETURN DROP TRANSITION TO 20"X12" DUCT WITH BIRDSCREEN ON OPEN END. SEE M200 FOR DETAIL OF DROP BOX DIFFUSER.
10. EXPOSED SPIRAL DUCTWORK TO BE DOUBLEWALL PAINTGRIP.

GENERAL NOTES

A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS.

B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.

D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.

E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.

F. MAINTAIN ALL CODE REQUIRED SERVICE CLEARANCES. FOLLOW CLEARANCE TO COMBUSTIBLE DISTANCE PER MANUFACTURER'S INSTRUCTIONS.

G. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.

H. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

H. PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.

I. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.

J. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J. INDOOR TEMPERATURES FOR RTU VVT SYSTEMS SHALL BE CONTROLLED THROUGH AVERAGING SENSORS IN THE SPACE. SENSORS SHALL COMMUNICATE WITH CONTROL PANEL LOCATED IN EACH MECHANICAL/STORAGE 218. CONSTANT VOLUME ROOF TOPS WILL HAVE STAND ALONE THERMOSTATS IN SPACE.

K. MAINTAIN CODE REQUIRED CLEARANCE TO COMBUSTIBLES FOR ALL GAS-FIRED EQUIPMENT:

ISSUANCES

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID SET	02/12/2024

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
CAG	SSS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
MECHANICAL ROOF PLAN

SHEET NO.
M102

BOYS AND GIRLS CLUB PRICE HILL RTU SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	GENERAL: WEIGHT	MOUNTING	NOM.CFM	ESP IN.WG	OA CFM	BHP	COOLING: GROSS CLG (MBH)	CLG-SENS (MBH)	NOMINAL TONS	SEER	EER	HEATING MBH: INPUT/OUTPUT: INPUT MBH	OUTPUT MBH	EFFICIENCY %	ELECTRIC: VOLT/PHASE	MCA	MOCP	ECONOMIZER: TYPE (SINGLE OR DUAL, DRY BULB OR ENTHALPY)	NOTES
RTU-1	PROGRAM AREA 4 114	CARRIER	48FCEM06A2A5-0W0A0	574	ROOF	2,000	0.5	350	0.94	59	45	5	13.4	11.5	110	88	81	208/3	31	45	SINGLE/ENTHALPY	1-10
RTU-2	PROGRAM AREA 2 113	CARRIER	48FCEM05A2A5-0W0A0	543	ROOF	1,600	0.5	310	0.68	48	34	4	13.4	11.5	110	88	81	208/3	26	30	SINGLE/ENTHALPY	1-10
RTU-3	PROGRAM AREA 1 105	CARRIER	48FCEM05A2A5-0W0A0	543	ROOF	1,600	0.5	300	0.68	48	34	4	13.4	11.5	110	88	81	208/3	26	30	SINGLE/ENTHALPY	1-10
RTU-4	1ST FLOOR LOBBY,CONFERENCE, OFFICES	CARRIER	48FCEM07A2A5-0W0A0	662	ROOF	2,400	0.5	445	1.31	72	56	6	13.4	11.5	110	88	81	208/3	29	45	SINGLE/ENTHALPY	1-10
RTU-5	2ND FLOOR OFFICES,CONFERENCE,COR	CARRIER	48FCEM09A2A5-0W0A0	887	ROOF	3,200	0.5	610	1.37	102	79	8.5	15	11.2	180	148	82	208/3	41	50	SINGLE/ENTHALPY	1-10
RTU-6	TRAINING BOARD ROOM 213	CARRIER	48FCEM06A2A5-0W0A0	574	ROOF	2,000	0.5	350	0.94	59	45	5	13.4	11.5	110	88	81	208/3	31	45	SINGLE/ENTHALPY	1-10
RTU-7	STORAGE 115	CARRIER	48FCEM04A2A5-0W0A0	531	ROOF	1,200	0.5	100	0.31	35	25	3	13.4	11.5	110	88	80	208/3	20	30	SINGLE/ENTHALPY	1-10

1. MEDIUM HEAT, GALVANIZED HEAT EXCHANGER
2. 14" ROOF CURB
3. ENTHALPY CONTROL FOR W7220 CONTROLLER
4. ECONOMIZER/BAROMETRIC RELIEF
5. RETURN SMOKE DETECTOR
6. ISOLATION VALVES (SUCTION AND DISCHARGE LINES)
7. BACNET COMMUNICATION CARD
8. STAINLESS STEEL DRAIN PAN.
9. ECM SUPPLY FAN MOTOR
10. TXV METERING DEVICE

DUCT INSULATION SCHEDULE

EQUIPMENT	AIR DISTRIBUTION TYPE: SA	SA (EXPOSED)	RA	ADDITIONAL NOTES
RTU-1	R-3.5	N/A	R-3.5	1,2
RTU-2	R-3.5	N/A	R-3.5	2
RTU-3	R-3.5	N/A	R-3.5	2
RTU-4	R-3.5	N/A	R-3.5	2
RTU-5	R-3.5	R-3.5	R-3.5	2
RTU-6	R-3.5	R-3.5	R-3.5	2
RTU-7	R-3.5	N/A	R-3.5	2

DUCT INSULATION REQUIREMENTS ARE BASED ON TABLE 6.8.2B OF ASHRAE 90.1 2010 ENERGY CODE.

PROVIDE DUCTWORK OF SUFFICIENT THICKNESS TO MEET THE INSTALLED R-VALUE REQUIREMENTS LISTED ABOVE.

ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND CASINGS, FLEX CONNECTORS, VIBRATION-CONTROL DEVICES, FACTORY-INSULATED ACCESS PANELS

1. SUPPLY DUCT IS CONSTRUCTED OF FABRIC
2. RETURN DUCT INTERNALLY LINED

FAN SCHEDULE

TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	DRIVE	CFM	ESP	HP	WATTS	RPM	AMPS FLA	MCA	MOCP	VOLT/PHASE	MOUNTING	WEIGHT	NOTES
E-1	EXHAUST	FIRST FLOOR GIRLS, BOYS RR, JANITOR	GREENHECK	SP-A200	DIRECT	210	0.25	1/10	47	868	0.46	0.6	15	115/60/1	CEILING	29	1,2
E-2	EXHAUST	SEOND FLOOR GIRLS, BOYS RR	GREENHECK	G-090-VG	DIRECT	330	0.25	1/10		1,100	1.5	1.9	15	115/60/1	CEILING	29	1,2
E-3	EXHAUST	STAFF RESTROOM 118	GREENHECK	SP-B90	DIRECT	70	0.25	-	20	700	0.19	0.2	15	115/60/1	CEILING	9	3

1. FAN SHALL RUN ON 24/HR TIMECLOCK. MECHANICAL CONTRACTOR TO PROVIDE. ELECTRICAL CONTRACTOR TO INSTALL.
2. PROVIDE BACKDRAFT DAMPERS
3. FAN SHALL BE OPERATED BY TOGGLE SWITCH ON WALL

HEATER SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	DRIVE	CFM	BTU/HR	KW	RPM	AMPS FLA	VOLT/PHASE	MOUNTING	NOTES
CH-1	VESTIBULE 100	BERKO	FFCH-548	DIRECT	300	13.7	4	1400	19.2	208/1	CEILING	1
WH-1	STAIRS/MEP 102	BERKO	FRA4024F	DIRECT	-	10,230	3	-	14.5	208/1	WALL	1,2

1. INTEGRAL THERMOSTAT
2. PROVIDE SURFACE MOUNT FOR CMU WALL

VVT SCHEDULE

ZONE	ROOM	MANUFACTURER	MODEL	INLET (IN)	CFM	CFM - MIN/MAX	INLET STATIC PRESSURE	DOWNSTREAM STATIC PRESSURE
VVT-4-1	CORRIDOR 110,KITCHENETTE, STAFF RR 118	CARRIER	35EN3000L080D	8	910	159-920	1	0.5
VVT-4-2	CONFERENCE 108	CARRIER	35EN3000L080D	8	500	159-920	1	0.5
VVT-4-3	LOBBY 102, STORAGE 107, VESTIBULE 100	CARRIER	35EN3000L060D	6	375	89-515	1	0.5
VVT-4-4	OFFICE 103,104,105	CARRIER	35EN3000L080D	8	509	159-920	1	0.5
BD-4	BYPASS DAMPER FOR RTU-4	CARRIER	35EN3000L100D	10	1,150	0-1430	1	0.5
VVT-5-1	CORRIDOR 216,OFFICE 209,210,211, STORAGE/MECH 218	CARRIER	35EN3000L080D	8	470	159-920	1	0.5
VVT-5-2	OFFICE 205,206,207,208	CARRIER	35EN3000L080D	8	395	159-920	1	0.5
VVT-5-3	KITCHENETTE 219, OFFICE 219, OPEN OFFICE 220	CARRIER	35EN3000L080D	8	820	159-920	1	0.5
VVT-5-4	OFFICE 222,223	CARRIER	35EN3000L060D	6	295	89-515	1	0.5
VVT-5-5	CONFERENCE 203,COPY/PRINT 224, OPEN OFFICE 220, RECEPTION/WAITING 201	CARRIER	35EN3000L080D	8	845	159-920	1	0.5
BD-5	BYPASS DAMPER FOR RTU-3	CARRIER	35EN3000L100D	10	1,400	0-1,400	1	0.5

BOYS & GIRLS CLUB - PRICE HILL
CARRIER VVT OPEN - SEQUENCE OF OPERATION

PROJECT OVERVIEW:

Project includes a Carrier OPEN BACnet-compatible system for control of packaged Carrier Rooftop Units, VVT Zone Controllers & Bypass Dampers. Rooftop units include OPEN SystemVu controllers w/integral Operator Interface that serve the unit's DX cooling, gas heating, fan and Humidi-MiZer Adaptive Dehumidification system. All devices communicate with one another via a 22Ga., 2-wire (shielded) communication bus.

A new wall-mtd. System Touch Interface (SYST1-4-CAR) will be provided for monitoring and setpoint & time schedule adjustments. All setpoints shown in this sequence of operation may be adjusted though the System Touch Interface.

VARIABLE-VOLUME & TEMPERATURE SYSTEM

VVT OVERVIEW:

Carrier OPEN Variable Volume & Temperature (VVT) is a zoning system that utilizes both cooling and heating from one central air source. The VVT System makes the decision to enter a system mode (heat or cool - see "SYSTEM MODE CONTROL") based on the number of heating and cooling callers. The Zone Controller modulates individual zone dampers to maintain space temperature setpoint.

OCCUPIED & UNOCCUPIED OPERATION:

Unit shall be scheduled for occupied/unoccupied 7-day and holiday operation. An unoccupied override pushbutton (on wall-mounted temperature sensor) will force that individual zone to occupied mode for 2 hours (adjustable).

Occupied setpoints are preset at 74 °F for cooling and 70 °F for heating, adjustable for up to + / - 3 °F from a space temperature sensor sidebar setpoint adjustment. Unoccupied setpoints are preset at 80 °F for cooling and 60 °F for heating.

During the occupied mode, the fan is operational. During the unoccupied mode the unit fan shall cycle based on a call for unoccupied cooling or heating.

SYSTEM MODE DETERMINATION:

This system mode (heat or cool) is chosen by calculating the average heat and cool demands between all zones (difference between setpoint & actual space temperature). NOTE: Each zone may be designated a priority level, which will allow for a "weighted" average demand for larger or more critical zones.

When the average cooling demand rises to 0.7 °F above setpoint, the unit shall enter cooling mode. When the average heating demand falls to 0.7 °F below setpoint, the unit shall enter heating mode. If both average heating and cooling demands are above 0.7 °F, the highest demand will determine the mode. Once a mode is selected, it will remain in that mode until either the average zone demand reaches setpoint or the opposite mode demand is higher (after a minimum 30 minute run time).

HVAC UNIT CONTROL:

Once a system mode is determined, the VVT System will communicate with the Carrier OPEN RTU Controller to enable heating or cooling. The RTU Controller will utilize PID logic to stage heating or cooling based on average demand.

The unit will always maintain a minimum supply temperature of 50 °F during cooling mode and a maximum supply temperature of 140 °F during heating mode. Economizer control will be utilized for free cooling during cooling mode when outdoor temperatures are suitable. Heating and/or cooling may be locked out based on outdoor temperature lockout setpoints if desired.

When outdoor temp is not suitable, economizer damper shall be at minimum ventilation position and mechanical cooling will be staged to maintain occupied space temperature cooling setpoint. When outdoor temp is suitable, return air shall be exhausted and unit shall bring in additional outdoor air. If outdoor damper reaches 100% and space temperature setpoint cannot be met, damper will remain open and mechanical cooling will be enabled.

ZONE DAMPER CONTROL:

Each zone will have a minimum damper position for ventilation purposes. When a zone's temperature rises above its cooling setpoint and the overall system mode is cooling, the zone damper shall modulate to maintain cooling setpoint. If the zone's temperature is below its heating setpoint and the overall system mode is heating, the zone damper shall modulate to maintain heating setpoint.

When no system mode is present and the supply air temperature is acceptable (65-75 °F), the zone damper will open beyond the minimum position to the ventilation position to provide additional ventilation to the space.

BYPASS DAMPER CONTROL:

The Bypass Controller shall work in conjunction with all Zone Controllers to maximize the amount of supply air in the duct system and to prevent inadequate air flow through the HVAC unit.

The Bypass Controller shall preposition its damper(s) to the maximum open position prior to system startup. The static pressure will be regulated from minimum system pressure during startup to maximum system pressure during normal operating conditions. During changeover mode, the Bypass Controller shall open the bypass dampers to pre_condition the supply air temperature if it is counterproductive for use by any zone.

DEHUMIDIFICATION CONTROL:

Humidi-MiZer Adaptive Dehumidification system will be enabled whenever space humidity rises above 70% (adjustable). Hot gas bypass will be utilized to avoid overcooling the space during dehumidification mode. There will be three modes of operation:

Normal Mode (HGSV closed, LLSV open) - cooling only call.

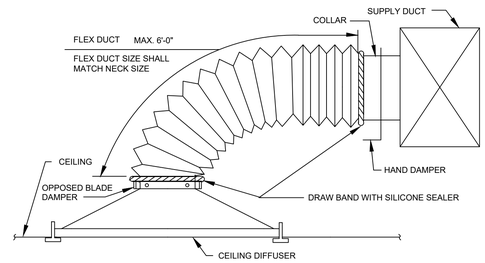
Sub-Cooling Mode (HGSV closed, LLSV closed) - cooling / dehumidification call.

Hot Gas Reheat Mode (HGSV open, LLSV closed) - dehumidification call w/o cooling.

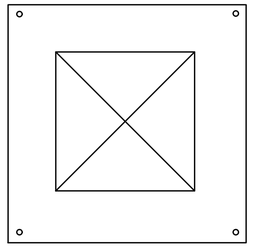
See attached Humidi-MiZer Product sheet for additional details.

UNOCCUPIED MODE:

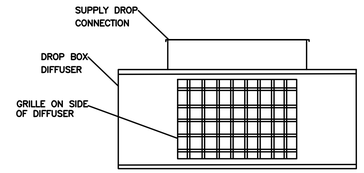
During unoccupied mode, the RTU fan will cycle on based on a call for unoccupied cooling or heating and remain off when satisfied. RTU will operate off of the unoccupied cooling & heating setpoints of 80 F and 60 F for all zones. System will to run until space temperature lowers (cooling mode) or raises (heating mode) by 4 °F.



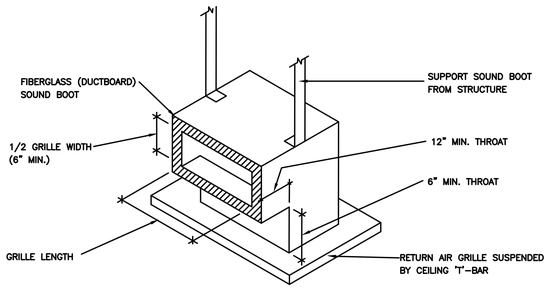
TYPICAL DIFFUSER CONNECTION
(SIDE OF DUCT CONNECTION)
NOT TO SCALE



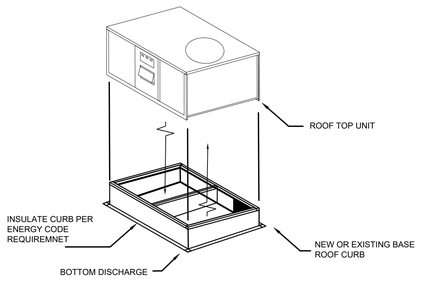
DROP BOX DIFFUSER CONNECTION
(TOP VIEW)
NOT TO SCALE



DROP BOX DIFFUSER DETAIL
(SIDE VIEW)
NOT TO SCALE



TYPICAL RETURN AIR GRILLE W/ SOUND BOOT DETAIL
NO SCALE



TYPICAL ROOF TOP UNIT DETAIL
NO SCALE

Ventilation Schedule For Boys and Girls Club Price Hill — RTU-1 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Rate (cfm/ft2)	Total (cfm)	People Outdoor Air: Occupant Density per 1000 sf	Actual People	Rate (cfm/per)	Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Zone Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az		Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
Program Area 114	Multiuse assembly	2120	0.06	127.2	100	21	7.5	157.5	284.7	0.8	356	2000	17.8	0
Total		2120				21					356	2000	17.8	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For Boys and Girls Club Price Hill — RTU-2 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Rate (cfm/ft2)	Total (cfm)	People Outdoor Air: Occupant Density per 1000 sf	Actual People	Rate (cfm/per)	Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Zone Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az		Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
Program room 113	Multiuse assembly	1610	0.06	96.6	100	16	7.5	120	216.6	0.8	271	1230	22	
Total		1610				16					271	1230	22	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For Boys and Girls Club Price Hill — RTU-3 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Rate (cfm/ft2)	Total (cfm)	People Outdoor Air: Occupant Density per 1000 sf	Actual People	Rate (cfm/per)	Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Zone Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az		Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
Program Room 106	Multiuse assembly	1440	0.06	86.4	100	20	7.5	150	236.4	0.8	296	170	174.1	
Boys 111	Toilet room - public	219	0	0	0	0	0	0	0	0.8	0	530	0	210
Total		1659				20					296	700	174.1	210

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For Boys and Girls Club Price Hill — RTU-4 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Rate (cfm/ft2)	Total (cfm)	People Outdoor Air: Occupant Density per 1000 sf	Actual People	Rate (cfm/per)	Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Zone Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az		Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
Corridor 110	Corridor	1020	0.06	61.2	0	0	0	0	61.2	0.8	77	1800	4.3	
Kitchenette	Office Space	340	0.06	20.4	5	2	5	10	30.4	0.8	38	1800	2.1	
Conference 108	Conference/Meeting	445	0.06	26.7	5	2	5	10	36.7	0.8	46	150	30.7	
Lobby 102	Office Space	300	0.06	18	5	2	5	10	28	0.8	35	180	19.4	
Storage 107	Corridor	160	0.06	9.6	0	0	0	0	9.6	0.8	12	250	4.8	
Vestibule 100	Main Entry Lobbies	113	0.06	6.78	10	1	5	5	11.78	0.8	15	250	6	
Office 103	Office Space	160	0.06	9.6	5	1	5	5	14.6	0.8	18	250	7.2	
Office 104	Office Space	156	0.06	9.36	5	1	5	5	14.36	0.8	18	250	7.2	
Office 105	Office Space	165	0.06	9.9	5	1	5	5	14.9	0.8	19	250	7.6	
Staff RR 118	Toilet room - public	219	0	0	0	0	0	0	0	0.8	0	250	0	70
Total		3078				6					208	4180	61.3	70

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For Boys and Girls Club Price Hill — RTU-5 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Rate (cfm/ft2)	Total (cfm)	People Outdoor Air: Occupant Density per 1000 sf	Actual People	Rate (cfm/per)	Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Zone Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az		Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
Conference 203	Conference/Meeting	342	0.06	20.52	5	2	5	10	30.52	0.8	38	270	14.1	
Copy/Print 224	Office Space	53	0.06	3.18	5	1	5	5	8.18	0.8	10	50	20	
Corridor 216	Corridor	450	0.06	27	5	0	0	0	27	0.8	34	150	22.7	
Kitchenette 219	Office Space	345	0.06	20.7	5	2	5	10	30.7	0.8	38	270	14.1	
Office 205	Office Space	135	0.06	8.1	5	1	5	5	13.1	0.8	16	135	11.9	
Office 206	Office Space	135	0.06	8.1	5	1	5	5	13.1	0.8	16	110	14.5	
Office 207	Office Space	135	0.06	8.1	5	1	5	5	13.1	0.8	16	110	14.5	
Office 208	Office Space	135	0.06	8.1	5	1	5	5	13.1	0.8	16	110	14.5	
Office 209	Office Space	125	0.06	7.5	5	1	5	5	12.5	0.8	16	105	15.2	
Office 210	Office Space	125	0.06	7.5	5	1	5	5	12.5	0.8	16	105	15.2	
Office 211	Office Space	130	0.06	7.8	5	1	5	5	12.8	0.8	16	105	15.2	
Office 219	Office Space	125	0.06	7.5	5	1	5	5	12.5	0.8	16	95	16.8	
Office 222	Office Space	163	0.06	9.78	55	1	5	5	14.78	0.8	18	120	15	
Office 223	Office Space	264	0.06	15.84	5	1	5	5	20.84	0.8	26	215	12.1	
Open Office 220	Office Space	969	0.06	58.14	5	1	5	5	63.14	0.8	79	790	10	
Reception/Waiting 201	Reception Areas	225	0.06	13.5	5	1	5	5	18.5	0.8	23	215	10.7	
Storage/Mech 218	Storage rooms	48	0.12	5.76	0	0	0	0	5.76	0.8	7	50	14	
Total		3904				6					136	875	82.8	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For Boys and Girls Club Price Hill — RTU-6 (OMC 2017)

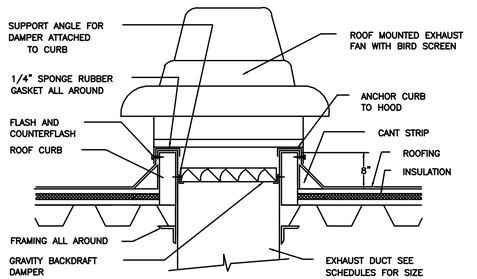
Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Rate (cfm/ft2)	Total (cfm)	People Outdoor Air: Occupant Density per 1000 sf	Actual People	Rate (cfm/per)	Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Zone Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az		Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
Training/Board Room 213	Conference/Meeting	1080	0.06	64.8	100	11	5	55	119.8	0.8	150	2000	7.5	0
Total		1080				11					150	2000	7.5	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.

Ventilation Schedule For Boys and Girls Club Price Hill — RTU-7 (OMC 2017)

Room # and Name	Occupancy Type	Area Outdoor Air: Area (ft2)	Rate (cfm/ft2)	Total (cfm)	People Outdoor Air: Occupant Density per 1000 sf	Actual People	Rate (cfm/per)	Total (cfm)	Breathing Zone Outdoor Airflow (cfm)	Zone Air Distribution Effectiveness	Zone Airflow (cfm)	Zone Supply Airflow (cfm)	OA/SA Ratio (%)	Exhaust Airflow (cfm)
		Az	Ra	Ra*Az		Pz	Rp	Rp*Pz	Vbz=Rp*Pz+Ra*Az	Ez	Voz			
Storage 115	Storage rooms	1600	0.12	192	0	11	0	0	192	0.8	240	1200	20	0
Total		1600				11					240	1200	20	0

RESTROOMS EXHAUST 70 CFM PER FLUSHABLE FIXTURE.



NOTE:
USE SAME CURB AND FLASHING ARRANGEMENT FOR ROOF MOUNTED SUPPLY AIR FANS.

ISSUANCES

NO	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID SET	02/12/2024

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204
ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
CAG	SSS

PROJECT NO.: 10204

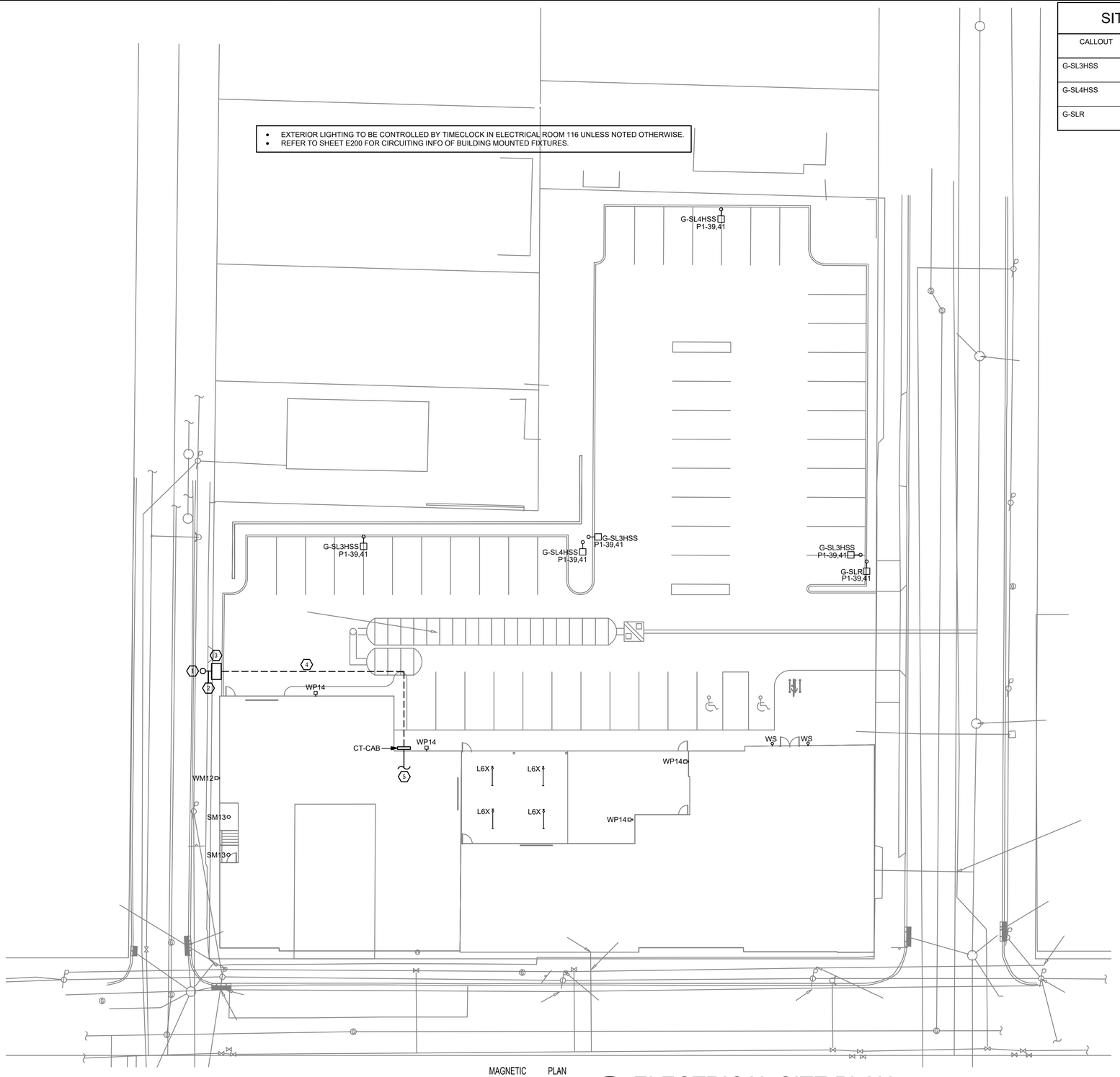
SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
MECHANICAL DETAILS

SHEET NO.
M200

- EXTERIOR LIGHTING TO BE CONTROLLED BY TIMECLOCK IN ELECTRICAL ROOM 116 UNLESS NOTED OTHERWISE.
- REFER TO SHEET E200 FOR CIRCUITING INFO OF BUILDING MOUNTED FIXTURES.



MAGNETIC PLAN

1 / E001 ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

SITE LUMINAIRE SCHEDULE

CALLOUT	MODEL	FIXTURE WATTS
G-SL3HSS	MCGRAW-EDISON GALN-SA2B-740-U-SL3-HSS_9466	82
G-SL4HSS	MCGRAW-EDISON GALN-SA2B-740-U-SL4-HSS_9412	82
G-SLR	MCGRAW-EDISON GALN-SA2B-740-U-SLR_9863 LUME	82

SCOPE OF WORK

NEW CONSTRUCTION OF A TWO STORY BUILDING FOR BOYS AND GIRLS CLUB. PROJECT CONSISTS OF OFFICE SPACES, CLASSROOMS, AND A GARAGE.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - SITE

A. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

B. PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THIS WORK. ALL BACKFILL SHALL BE BROUGHT TO FINISHED GRADE AND MATCH SURROUNDING CONDITIONS. RESTORE ALL DISTURBED PAVING AND LANDSCAPING TO ORIGINAL CONDITIONS. PULL BOXES SHALL BE PROVIDE OF A TYPE MEETING THE REQUIREMENTS AND CONDITIONS OF THE USE INTENDED.

C. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SITE WORK WITH GENERAL CONTRACTOR AND OTHER BUILDING TRADES.

D. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL UNDERGROUND FEEDERS IN PVC SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC 250.

E. COORDINATE ALL UNDERGROUND UTILITY WORK INCLUDING BUT NOT LIMITED TO THE FOLLOWING: EC RESPONSIBLE FOR ALL PRIMARY/SECONDARY UG CONDUITS INSTALLED FROM UTILITY DEMARC TO PAD OR NEW POLE-MOUNT TRANSFORMER LOCATION, (WHEN REQUIRED). CONFIRM ALL UTILITY WORK WITH OWNER, ARCH, GC, UTILITY REPRESENTATIVE, ETC PRIOR TO CONSTRUCTION.

F. AS-BUILT DRAWINGS SHALL INCLUDE AN OVERALL SITE PLAN SHOWING ROUTING OF ALL CIRCUITRY AND LOCATIONS OF ALL TRANSFORMERS, ETC. AND PULL BOXES,ETC.

G. PROVIDE APPROPRIATE POWER AND GFCI PROTECTION FOR ALL ABOVE GROUND PIPING HEAT TRACE. COORDINATE VOLTAGE/PHASE WITH CONTRACGTOR FURNISHING HEAT TRACE.

(#) KEYED SHEET NOTES - SITE

1. APPROXIMATE LOCATION OF NEW DUKE UTILITY POLE.
2. PROVIDE (2) 4" CONDUITS WITH PULL STRING BETWEEN PULLBOX AND UP POLE FOR DUKE USE.
3. GROUND MOUNTED PULLBOX PROVIDED BY DUKE ENERGY AND INSTALLED BY CONTRACTOR. PULL BOX IS TO BE INSTALLED ON CUSTOMER PROPERTY OUT OF RIGHT AWAY. INSTALL BOX 5' OFF THE FACADE OF THE BUILDING TO THE NEAR EDGE OF THE PULL BOX.
4. UNDERGROUND SECONDARY WIRING.
5. SERVICE CONDUCTORS TO REMAIN UNDER THE SLAB UNTIL THEY REACH THE SERVICE DISCONNECT. SEE SHEET E100 FOR SERVICE DISCONNECT LOCATION (MDP).

ISSUANCES

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID SET	02/12/2024

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL SITE PLAN

SHEET NO.
E001

KEYED SHEET NOTES

1. PROVIDE A DEDICATED CIRCUIT FOR SECURITY SYSTEM EQUIPMENT. REFER TO TECHNOLOGY DRAWINGS (SHEETS T-102 & T-501) FOR ADDITIONAL INFORMATION. SECURITY SYSTEM TO BE INTEGRATED WITH FIRE ALARM SYSTEM TO REMOVE POWER TO EXTERIOR DOOR LOCKS IN THE EVENT OF AN ALARM.
2. PROVIDE A BRANCH CIRCUIT FOR FIRE ALARM PANEL AND REMOTE ANNUNCIATOR AT BUILDING ENTRANCE. LOCATION TO BE APPROVED BY ARCHITECT AND AHJ.
3. ITEMS TO BE INSTALLED FOR THE ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND MANUFACTURER REQUIREMENTS. COORDINATE REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR PRIOR TO INSTALLATION.
4. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV AND GAMING CONSOLE/MEETING PRESENTER. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
5. PROVIDE 1-1/4" CONDUIT UNDER SLAB FROM FLOOR BOX LOCATION INTO THE WALL STUD SPACE FOR IT CABLING BETWEEN FLOOR BOX AND TV.
6. EC TO INSTALL CEILING MOUNTED RECEPTACLE FOR PROJECTOR, COORDINATE RECEPTACLE LOCATION WITH GC PRIOR TO INSTALLATION.
7. 1-1/4" CONDUIT TO BE STUBBED FROM WALL STUD SPACE INTO ACCESSIBLE CEILING SPACE BELOW FOR IT CABLING FOR WALL MOUNTED TV. COORDINATE LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
8. FIELD VERIFY LOCATIONS OF FLOOR OUTLETS WITH GC PRIOR TO INSTALLATION.
9. PROVIDE A DEDICATED CIRCUIT WITH A NEMA L60-30 RECEPTACLE FOR THE UPS SYSTEM. RECEPTACLE TO BE MOUNTED TO THE IT RACK. REFER TO TECHNOLOGY DRAWINGS (SHEETS T-103 & T-501) FOR ADDITIONAL INFORMATION.
10. INSTALL 4'X4'X3/4" PLYWOOD BACKBOARD AND QUAD RECEPTACLE FOR DATA/PHONE UTILITIES DEMARC. PROVIDE CONDUITS IN QUANTITIES AND SIZES REQUIRED BY UTILITY PROVIDER FOR THEIR USE.
11. PROVIDE (1) 2" CONDUIT FROM MEP ROOM 116 BUILDING DEMARC TO STORAGE 107 FOR BCL FIBER OPTIC CABLE.
12. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV AND GAMING CONSOLE/MEETING PRESENTER. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
13. ELECTRIC DOOR HOLD OPEN DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. CONFIRM EC RESPONSIBLE SCOPE WITH ARCHITECT.
14. PROVIDE A BRANCH CIRCUIT FOR OVERHEAD DOOR OPENER. FIELD VERIFY REQUIREMENTS AND LOCATION WITH INSTALLING CONTRACTOR AND GC PRIOR TO INSTALLATION.

SCOPE OF WORK

NEW CONSTRUCTION OF A TWO STORY BUILDING FOR BOYS AND GIRLS CLUB. PROJECT CONSISTS OF OFFICE SPACES, CLASSROOMS, AND A GARAGE.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

FIRE ALARM - DELEGATED DESIGN

A. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.

B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.

C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

D. SECURITY SYSTEM TO BE INTEGRATED WITH FIRE ALARM SYSTEM TO REMOVE POWER TO EXTERIOR DOOR LOCKS IN THE EVENT OF AN ALARM.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES-POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

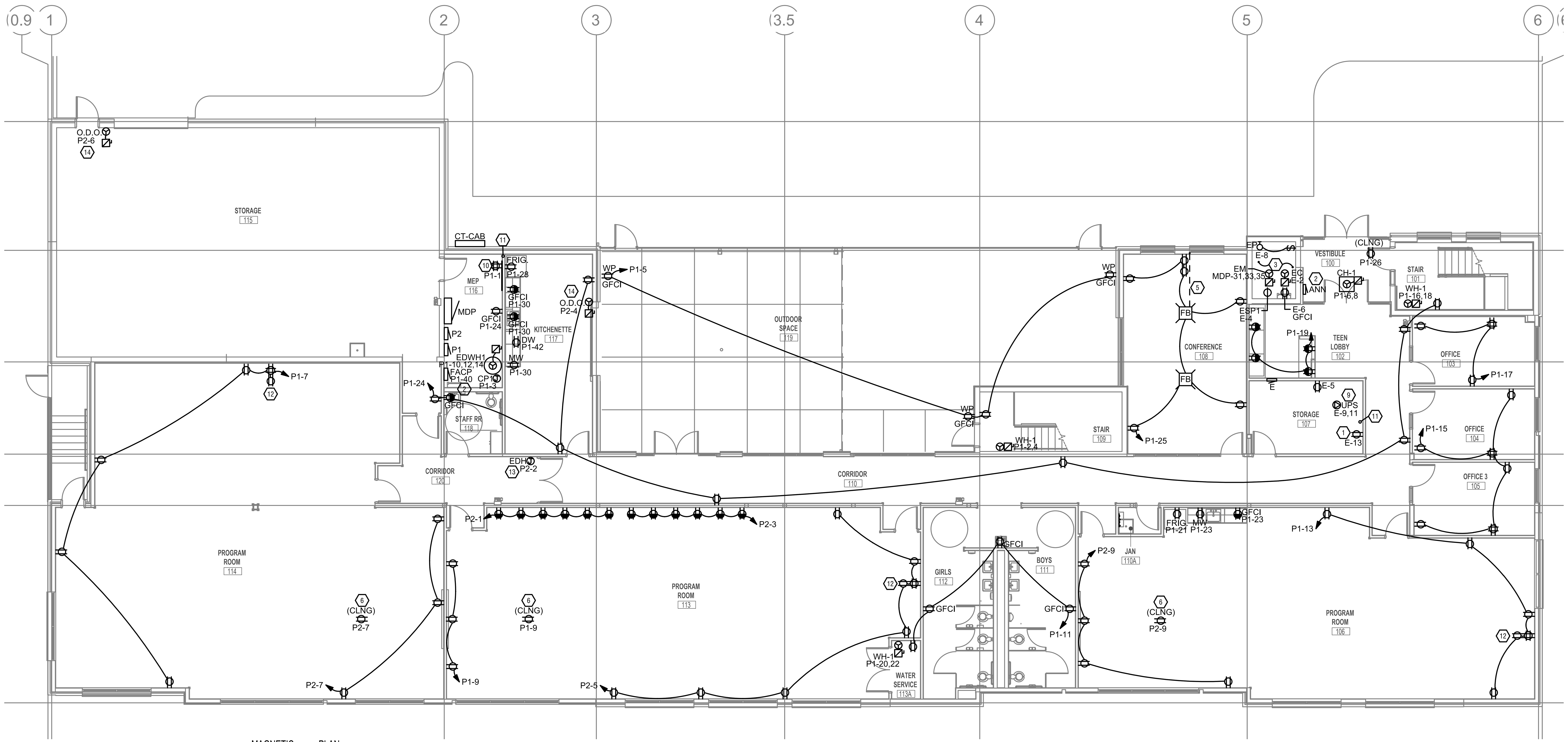
G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

J. PROVIDE A RING AND PULL STRING AT ALL INTERIOR LOW VOLTAGE LOCATIONS FOR BCL USE. REFER TO BCL DRAWINGS FOR LOCATIONS AND ADDITIONAL DETAILS.

K. PROVIDE A CONDUIT AND PULL STRING AT DOOR ACCESS CONTROL LOCATIONS FOR BCL USE. REFER TO BCL DRAWINGS FOR LOCATIONS AND CONDUIT REQUIREMENTS.



MAGNETIC PLAN

1
E100

ELECTRICAL POWER FIRST FLOOR PLAN

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

ISSUANCES		
DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL POWER FIRST FLOOR PLAN

SHEET NO.
E100

KEYED SHEET NOTES

1. PROVIDE A DEDICATED CIRCUIT FOR SECURITY SYSTEM EQUIPMENT. REFER TO TECHNOLOGY DRAWINGS (SHEETS T-102 & T-501) FOR ADDITIONAL INFORMATION. SECURITY SYSTEM TO BE INTEGRATED WITH FIRE ALARM SYSTEM TO REMOVE POWER TO EXTERIOR DOOR LOCKS IN THE EVENT OF AN ALARM.
2. PROVIDE A BRANCH CIRCUIT FOR FIRE ALARM PANEL AND REMOTE ANNUNCIATOR AT BUILDING ENTRANCE. LOCATION TO BE APPROVED BY ARCHITECT AND AHJ.
3. ITEMS TO BE INSTALLED FOR THE ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND MANUFACTURER REQUIREMENTS. COORDINATE REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR PRIOR TO INSTALLATION.
4. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV AND GAMING CONSOLE/MEETING PRESENTER. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
5. PROVIDE 1-1/4" CONDUIT UNDER SLAB FROM FLOOR BOX LOCATION INTO THE WALL STUD SPACE FOR IT CABLING BETWEEN FLOOR BOX AND TV.
6. EC TO INSTALL CEILING MOUNTED RECEPTACLE FOR PROJECTOR, COORDINATE RECEPTACLE LOCATION WITH GC PRIOR TO INSTALLATION.
7. 1-1/4" CONDUIT TO BE STUBBED FROM WALL STUD SPACE INTO ACCESSIBLE CEILING SPACE BELOW FOR IT CABLING FOR WALL MOUNTED TV. COORDINATE LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
8. FIELD VERIFY LOCATIONS OF FLOOR OUTLETS WITH GC PRIOR TO INSTALLATION.
9. PROVIDE A DEDICATED CIRCUIT WITH A NEMA L60-30 RECEPTACLE FOR THE UPS SYSTEM. RECEPTACLE TO BE MOUNTED TO THE IT RACK. REFER TO TECHNOLOGY DRAWINGS (SHEETS T-103 & T-501) FOR ADDITIONAL INFORMATION.
10. INSTALL 4'X4'X3/4" PLYWOOD BACKBOARD AND QUAD RECEPTACLE FOR DATA/PHONE UTILITIES DEMARC. PROVIDE CONDUITS IN QUANTITIES AND SIZES REQUIRED BY UTILITY PROVIDER FOR THEIR USE.
11. PROVIDE (1) 2" CONDUIT FROM MEP ROOM 116 BUILDING DEMARC TO STORAGE 107 FOR BCL FIBER OPTIC CABLE.
12. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV AND GAMING CONSOLE/MEETING PRESENTER. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
13. ELECTRIC DOOR HOLD OPEN DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. CONFIRM EC RESPONSIBLE SCOPE WITH ARCHITECT.
14. PROVIDE A BRANCH CIRCUIT FOR OVERHEAD DOOR OPENER. FIELD VERIFY REQUIREMENTS AND LOCATION WITH INSTALLING CONTRACTOR AND GC PRIOR TO INSTALLATION.

SCOPE OF WORK

NEW CONSTRUCTION OF A TWO STORY BUILDING FOR BOYS AND GIRLS CLUB. PROJECT CONSISTS OF OFFICE SPACES, CLASSROOMS, AND A GARAGE.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

FIRE ALARM - DELEGATED DESIGN

A. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.

B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.

C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

D. SECURITY SYSTEM TO BE INTEGRATED WITH FIRE ALARM SYSTEM TO REMOVE POWER TO EXTERIOR DOOR LOCKS IN THE EVENT OF AN ALARM.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES-POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.

B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.

C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.

D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.

E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.

F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.

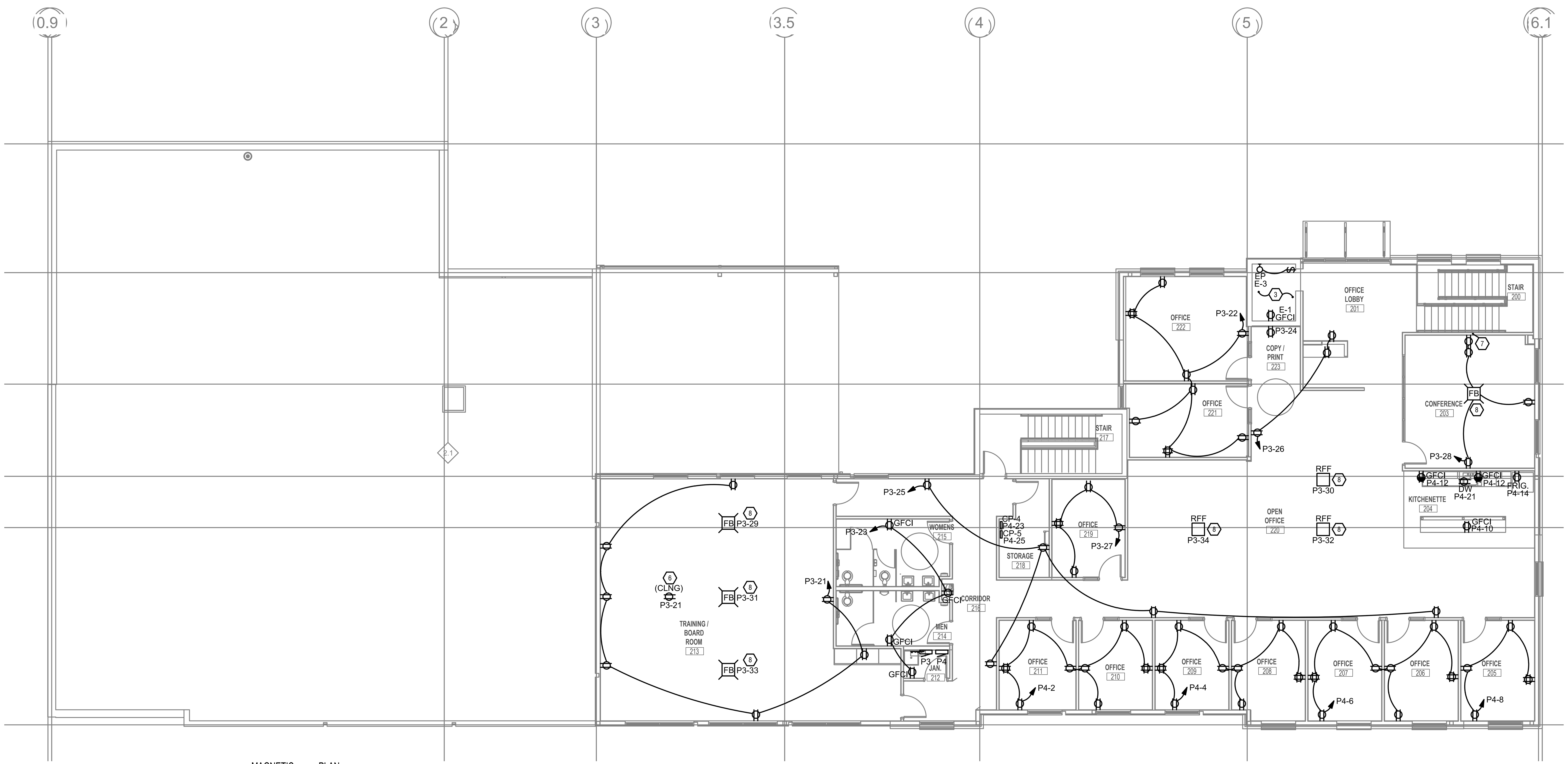
G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

J. PROVIDE A RING AND PULL STRING AT ALL INTERIOR LOW VOLTAGE LOCATIONS FOR BCL USE. REFER TO BCL DRAWINGS FOR LOCATIONS AND ADDITIONAL DETAILS.

K. PROVIDE A CONDUIT AND PULL STRING AT DOOR ACCESS CONTROL LOCATIONS FOR BCL USE. REFER TO BCL DRAWINGS FOR LOCATIONS AND CONDUIT REQUIREMENTS.



MAGNETIC PLAN

1
E101

ELECTRICAL POWER SECOND FLOOR PLAN

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

ISSUANCES

DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

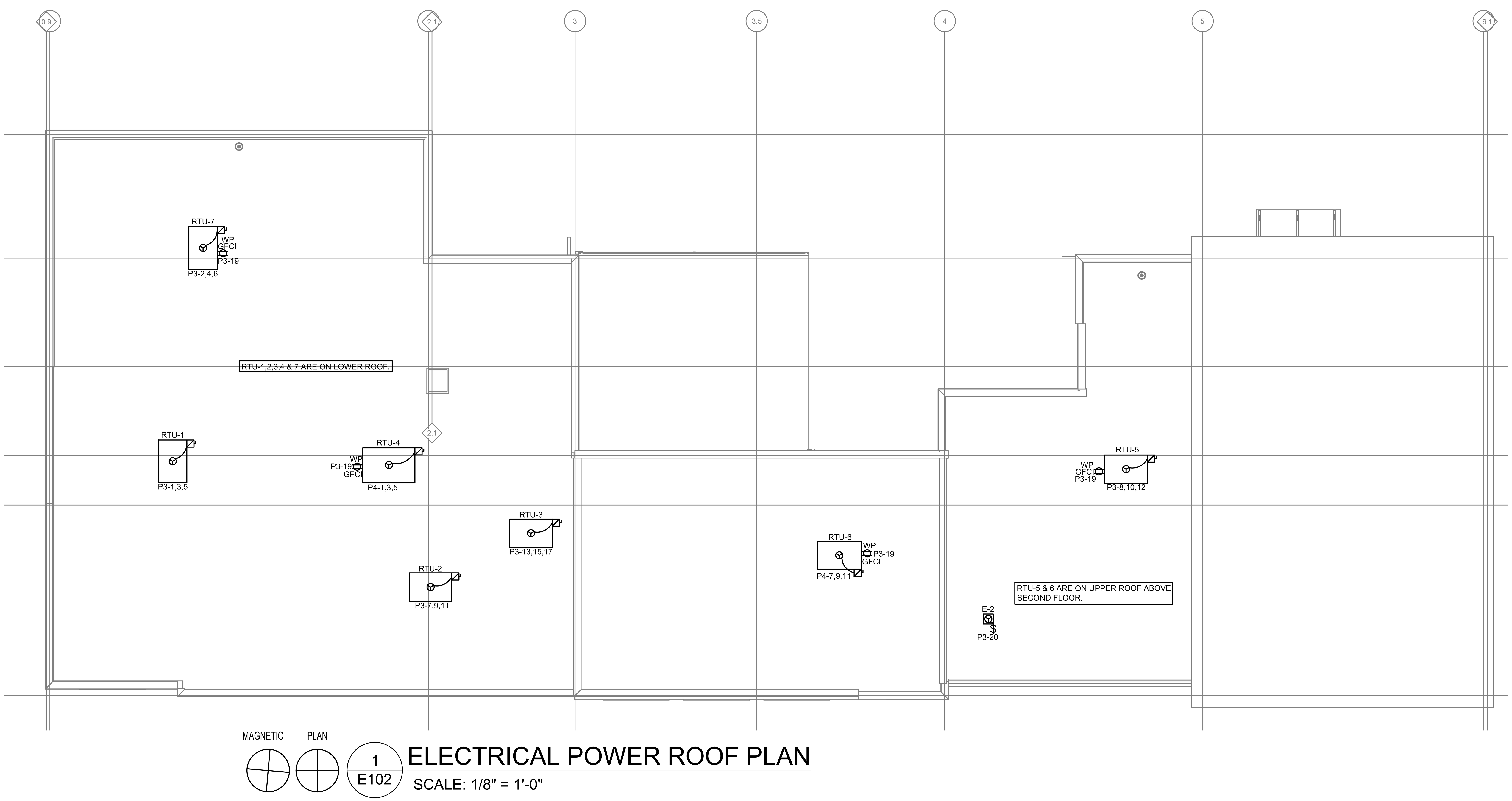
PROJECT NO.: 10204

SCALE: AS NOTED

DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL POWER SECOND FLOOR PLAN

SHEET NO.
E101



1 E102 ELECTRICAL POWER ROOF PLAN

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

KEYED SHEET NOTES

1. PROVIDE A DEDICATED CIRCUIT FOR SECURITY SYSTEM EQUIPMENT. REFER TO TECHNOLOGY DRAWINGS (SHEETS T-102 & T-501) FOR ADDITIONAL INFORMATION. SECURITY SYSTEM TO BE INTEGRATED WITH FIRE ALARM SYSTEM TO REMOVE POWER TO EXTERIOR DOOR LOCKS IN THE EVENT OF AN ALARM.
2. PROVIDE A BRANCH CIRCUIT FOR FIRE ALARM PANEL AND REMOTE ANNUNCIATOR AT BUILDING ENTRANCE. LOCATION TO BE APPROVED BY ARCHITECT AND AHJ.
3. ITEMS TO BE INSTALLED FOR THE ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND MANUFACTURER REQUIREMENTS. COORDINATE REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR PRIOR TO INSTALLATION.
4. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV AND GAMING CONSOLE/MEETING PRESENTER. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
5. PROVIDE 1-1/4" CONDUIT UNDER SLAB FROM FLOOR BOX LOCATION INTO THE WALL STUD SPACE FOR IT CABLING BETWEEN FLOOR BOX AND TV.
6. EC TO INSTALL CEILING MOUNTED RECEPTACLE FOR PROJECTOR, COORDINATE RECEPTACLE LOCATION WITH GC PRIOR TO INSTALLATION.
7. 1-1/4" CONDUIT TO BE STUBBED FROM WALL STUD SPACE INTO ACCESSIBLE CEILING SPACE BELOW FOR IT CABLING FOR WALL MOUNTED TV. COORDINATE LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
8. FIELD VERIFY LOCATIONS OF FLOOR OUTLETS WITH GC PRIOR TO INSTALLATION.
9. PROVIDE A DEDICATED CIRCUIT WITH A NEMA L60-30 RECEPTACLE FOR THE UPS SYSTEM. RECEPTACLE TO BE MOUNTED TO THE IT RACK. REFER TO TECHNOLOGY DRAWINGS (SHEETS T-103 & T-501) FOR ADDITIONAL INFORMATION.
10. INSTALL 4'X4'X3/4" PLYWOOD BACKBOARD AND QUAD RECEPTACLE FOR DATA/PHONE UTILITIES DEMARC. PROVIDE CONDUITS IN QUANTITIES AND SIZES REQUIRED BY UTILITY PROVIDER FOR THEIR USE.
11. PROVIDE (1) 2" CONDUIT FROM MEP ROOM 116 BUILDING DEMARC TO STORAGE 107 FOR BCL FIBER OPTIC CABLE.
12. PROVIDE RECEPTACLE OUTLETS UP HIGH AND AT STANDARD HEIGHT FOR WALL MOUNTED TV AND GAMING CONSOLE/MEETING PRESENTER. FIELD COORDINATE LOCATION AND MOUNTING HEIGHT WITH GC.
13. ELECTRIC DOOR HOLD OPEN DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. CONFIRM EC RESPONSIBLE SCOPE WITH ARCHITECT.
14. PROVIDE A BRANCH CIRCUIT FOR OVERHEAD DOOR OPENER. FIELD VERIFY REQUIREMENTS AND LOCATION WITH INSTALLING CONTRACTOR AND GC PRIOR TO INSTALLATION.

SCOPE OF WORK

NEW CONSTRUCTION OF A TWO STORY BUILDING FOR BOYS AND GIRLS CLUB. PROJECT CONSISTS OF OFFICE SPACES, CLASSROOMS, AND A GARAGE.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

FIRE ALARM - DELEGATED DESIGN

A. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.
B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.
C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.
D. SECURITY SYSTEM TO BE INTEGRATED WITH FIRE ALARM SYSTEM TO REMOVE POWER TO EXTERIOR DOOR LOCKS IN THE EVENT OF AN ALARM.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

GENERAL NOTES-POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
I. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.
J. PROVIDE A RING AND PULL STRING AT ALL INTERIOR LOW VOLTAGE LOCATIONS FOR BCL USE. REFER TO BCL DRAWINGS FOR LOCATIONS AND ADDITIONAL DETAILS.
K. PROVIDE A CONDUIT AND PULL STRING AT DOOR ACCESS CONTROL LOCATIONS FOR BCL USE. REFER TO BCL DRAWINGS FOR LOCATIONS AND CONDUIT REQUIREMENTS.

ISSUANCES

DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204
ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

PROJECT NO.: 10204

SCALE: AS NOTED

DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL POWER ROOF PLAN

SHEET NO.
E102

BOYS AND GIRLS CLUB PRICE HILL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	ALTERNATE 1	ALTERNATE 2	FIXTURE WATTS	NOTE 1
A2	2X2 LED CENTER BASKET RECESSED TROFFER	METALUX CRUZE ST 22CZ2	CREE FLX-22-50-835-CRV 10V1-UNV	ILP VOLA22 61L U35	39	
A4	2X4 LED CENTER BASKET RECESSED TROFFER	METALUX CRUZE ST 24CZ2 75HE UNV L835 CD1 U	CREE FLX24-70L-835-CRV 10V1-UNV	ILP VOLA24 86L U35	55.4	
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE-LITES AP2SQLED	UTOPIA LEDR-1-WH	COMPASS CU2SQ	3	
EMX	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE-LITES APCH7R	UTOPIA CEU-3-R-W-RC	COMPASS CCRGRC	3	PROVIDE BATTERY CAPACITY FOR REMOTE AS REQ'D
EP	LINEAR LED ELEVATOR PIT FIXTURE	METALUX VT3 VAPORTITE	UTOPIA VR9 4 54LED 35 UNV GR	N/A	54	COORDINATE LOCATION WITH AHJ
ER	DUAL LAMP LED REMOTE HEAD (EXTERIOR EGRESS ILLUMINATION)	SURE-LITES APWR	UTOPIA WRHSLED-2-PWP-MV	COMPASS CWRD	0	POWERED FROM LOCAL EXIT SIGN BATTERY
EX	UNIVERSAL EXIT SIGN - W/ 90 MIN. BACKUP	SURE-LITES APX SERIES	UTOPIA CEX-R-1-WH	COMPASS CERG	2	PROVIDE BATTERY CAPACITY FOR REMOTE AS REQ'D
L6X	6' SUSPENDED LINEAR	AXIS EX2S-500-80-35-BW-6	N/A	N/A	38.8	
L-NL/EM	LINEAR HANDRAIL LIGHT	TBD	N/A	N/A	115	WATTAGE CALCULCATED AT 5W PER LINER/FT
LI	LIGHTING INVERTER	POWER-LITE WM.20A01PP	N/A	N/A	0	
LP4	4' SUSPEND LINEAR UP/DOWN	CORELITE SQ4-F-050U-075D-935-1D-UNV-ST	N/A	N/A	36.3	
LP8	8' SUSPENDED LINEAR UP/DOWN	CORELITE SQ4-F-050U-75D-935-1D-UNV-STD-W8	N/A	N/A	72.6	
P1	PENDANT	AFX LUNA 4 LIGHT LED LINEAR PENDANT LNAP99***LNR4	N/A	N/A	54	
P2	PENDANT	AFX LUNA 6 LIGHT ROUND PENDANT LNAP99***RND6	N/A	N/A	81	
SM1	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	N/A	PRESCOLITE LBSD-6RD-CS9-WH	15.3	
SM13	13" SURFACE MOUNT ROUND	PARAMOUNT VR13 ROUND SERIES P006167PMVRL13R03K27L	N/A	N/A	33	
ST	4' LINEAR LED STRIP LIGHT	METALUX 4SNX-67SL-FDL-UNV-L840-CD	N/A	N/A	47.9	
W1-EM/NL	4' DECORATIVE WALL MOUNTED STRIP FIXTURE	METALUX BCLED LD4	N/A	N/A	37	PROVIDE FIXTURE WITH BATTERY BACKUP FOR EMERGENCY ILLULMINATION
WM12	EXTERIOR WALLPACK	HERPER LW6048-575-US-SLFW-350-840	N/A	N/A	10	
WP14	EXTERIOR WALLPACK	WPFP-37LC-24W-4000K-IESNA2002	N/A	N/A	22.8	
WS	6" ROUND UP/DOWN LIGHT	CYLINDERS CW0612UDPC-20L-35K-ND-ND-EXCL-WM	N/A	N/A	25.8	

* NL DENOTES EGRESS ILLUMINATION. EM DENOTES BATTERY BACKUP FOR EMERGENCY ILLUMINATION.
** BIDDING CONTRACTOR TO PROVIDE PRICING FOR BOTH FIXTURE MODEL AND ALTERNATE MODELS LISTED IN SCHEDULE

SCOPE OF WORK

NEW CONSTRUCTION OF A TWO STORY BUILDING FOR BOYS AND GIRLS CLUB. PROJECT CONSISTS OF OFFICE SPACES, CLASSROOMS, AND A GARAGE.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

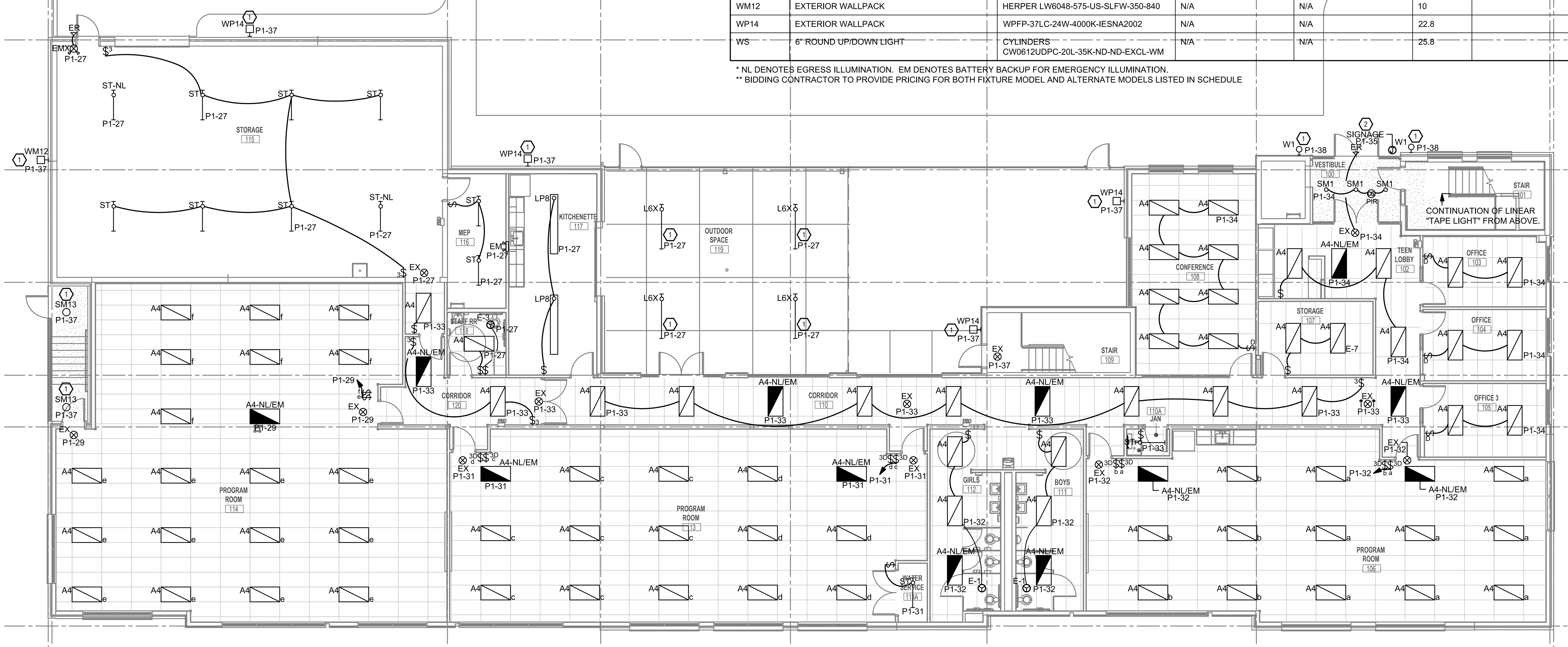
A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES-LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

KEYED SHEET NOTES

1. PROVIDE ASTRONOMICAL TIME CLOCK FOR CONTROL OF EXTERIOR LIGHTING.
2. PROVIDE A DEDICATED BRANCH CIRCUIT FOR BUILDING MOUNTED SIGNAGE. FIELD VERIFY LOCATION WITH GC.
3. LINEAR HANDRAIL (TAPE) LIGHT.
   - 3.1. PROVIDE INVERTER ABOVE DOOR IN JANITOR CLOSET 212 AS THE EMERGENCY POWER SOURCE FOR HANDRAIL LIGHTING IN STAIRWELL 200.
   - 3.2. INSTALL REMOTE DRIVER TUCKED IN THE CORNER AS INCONSPICUOUSLY AS POSSIBLE.



1 E200 ELECTRICAL LIGHTING FIRST FLOOR PLAN

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

ISSUANCES

DATE	NO.	DESCRIPTION
01/08/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

PROJECT NO.: 10204

SCALE: AS NOTED

DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL LIGHTING FIRST FLOOR PLAN

SHEET NO.
E200

BOYS AND GIRLS CLUB PRICE HILL LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MODEL 1	ALTERNATE 1	ALTERNATE 2	FIXTURE WATTS	NOTE 1
A2	2X2 LED CENTER BASKET RECESSED TROFFER	METALUX CRUZE ST 22CZ2	CREE FLX-22-50-835-CRV 10V1-UNV	ILP VOLA22 61L U35	39	
A4	2X4 LED CENTER BASKET RECESSED TROFFER	METALUX CRUZE ST 24CZ2 75HE UNV L835 CD1 U	CREE FLX24-70L-835-CRV 10V1-UNV	ILP VOLA24 86L U35	55.4	
EM	EMERGENCY WALL PACK - W/ 90 MIN. BACKUP	SURE-LITES AP2SQLED	UTOPIA LEDR-1-WH	COMPASS CU2SQ	3	
EMX	EXIT/EMERGENCY COMBO - 90 MIN. BACKUP	SURE-LITES APCH7R	UTOPIA CEU-3-R-W-RC	COMPASS CCRGRC	3	PROVIDE BATTERY CAPACITY FOR REMOTE AS REQ'D
EP	LINEAR LED ELEVATOR PIT FIXTURE	METALUX VT3 VAPORTITE	UTOPIA VR9 4 54LED 35 UNV GR	N/A	54	COORDINATE LOCATION WITH AHJ
ER	DUAL LAMP LED REMOTE HEAD (EXTERIOR EGRESS ILLUMINATION)	SURE-LITES APWR	UTOPIA WRHSLED-2-PWP-MV	COMPASS CWRD	0	POWERED FROM LOCAL EXIT SIGN BATTERY
EX	UNIVERSAL EXIT SIGN - W/ 90 MIN. BACKUP	SURE-LITES APX SERIES	UTOPIA CEX-R-1-WH	COMPASS CERG	2	PROVIDE BATTERY CAPACITY FOR REMOTE AS REQ'D
L6X	6' SUSPENDED LINEAR	AXIS EX2S-500-80-35-BW-6	N/A	N/A	38.8	
L-NL/EM	LINEAR HANDRAIL LIGHT	TBD	N/A	N/A	115	WATTAGE CALCULCATED AT 5W PER LINER/FT
LI	LIGHTING INVERTER	POWER-LITE WM.20A01PP	N/A	N/A	0	
LP4	4' SUSPEND LINEAR UP/DOWN	CORELITE SQ4-F-050U-075D-935-1D-UNV-ST	N/A	N/A	36.3	
LP8	8' SUSPENDED LINEAR UP/DOWN	CORELITE SQ4-F-050U-75D-935-1D-UNV-STD-W8	N/A	N/A	72.6	
P1	PENDANT	AFX LUNA 4 LIGHT LED LINEAR PENDANT LNAP99***LNR4	N/A	N/A	54	
P2	PENDANT	AFX LUNA 6 LIGHT ROUND PENDANT LNAP99***RND6	N/A	N/A	81	
SM1	6" ROUND SURFACE MOUNT LED DOWNLIGHT	HALO SMD6R-12-930-WH	N/A	PRESCOLITE LBSD-6RD-CS9-WH	15.3	
SM13	13" SURFACE MOUNT ROUND	PARAMOUNT VR13 ROUND SERIES P006167PMVRL13R03K27L	N/A	N/A	33	
ST	4' LINEAR LED STRIP LIGHT	METALUX 4SNX-67SL-FDL-UNV-L840-CD	N/A	N/A	47.9	
W1-EM/NL	4' DECORATIVE WALL MOUNTED STRIP FIXTURE	METALUX BCLED LD4	N/A	N/A	37	PROVIDE FIXTURE WITH BATTERY BACKUP FOR EMERGENCY ILLULMINATION
WM12	EXTERIOR WALLPACK	HERPER LW6048-575-US-SLFW-350-840	N/A	N/A	10	
WP14	EXTERIOR WALLPACK	WPFP-37LC-24W-4000K-IESNA2002	N/A	N/A	22.8	
WS	6" ROUND UP/DOWN LIGHT	CYLINDERS CW0612UDPC-20L-35K-ND-ND-EXCL-WM	N/A	N/A	25.8	

* NL DENOTES EGRESS ILLUMINATION. EM DENOTES BATTERY BACKUP FOR EMERGENCY ILLUMINATION.
** BIDDING CONTRACTOR TO PROVIDE PRICING FOR BOTH FIXTURE MODEL AND ALTERNATE MODELS LISTED IN SCHEDULE

SCOPE OF WORK

NEW CONSTRUCTION OF A TWO STORY BUILDING FOR BOYS AND GIRLS CLUB. PROJECT CONSISTS OF OFFICE SPACES, CLASSROOMS, AND A GARAGE.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES-LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

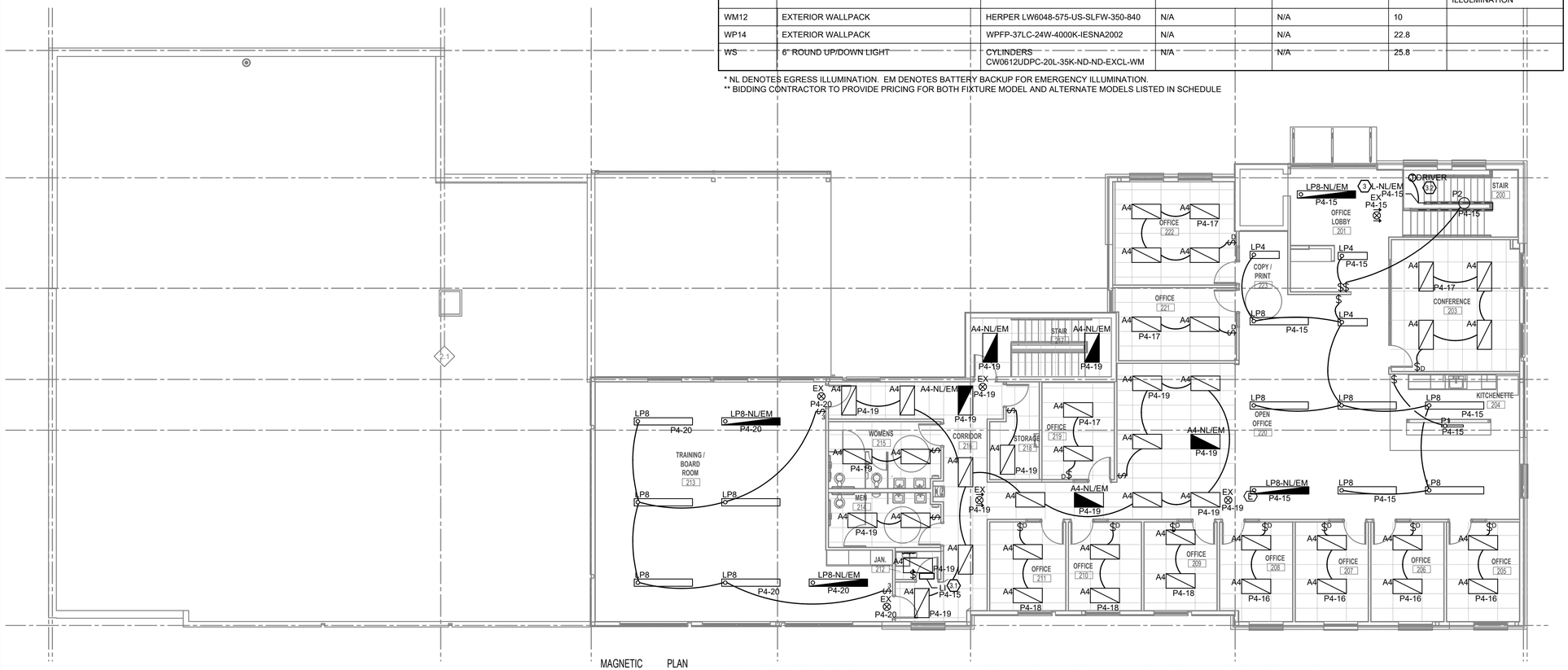
B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

KEYED SHEET NOTES

1. PROVIDE ASTRONOMICAL TIME CLOCK FOR CONTROL OF EXTERIOR LIGHTING.
2. PROVIDE A DEDICATED BRANCH CIRCUIT FOR BUILDING MOUNTED SIGNAGE. FIELD VERIFY LOCATION WITH GC.
3. LINEAR HANDRAIL (TAPE) LIGHT.
   - 3.1. PROVIDE INVERTER ABOVE DOOR IN JANITOR CLOSET 212 AS THE EMERGENCY POWER SOURCE FOR HANDRAIL LIGHTING IN STAIRWELL 200.
   - 3.2. INSTALL REMOTE DRIVER TUCKED IN THE CORNER AS INCONSPICUOUSLY AS POSSIBLE.



MAGNETIC PLAN

1 / E201 ELECTRICAL LIGHTING SECOND FLOOR PLAN

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

ISSUANCES		
NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID SET	02/12/2024

BOYS & GIRLS CLUB PRICE HILL TEEN CENTER

1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 291-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL LIGHTING SECOND FLOOR PLAN

SHEET NO.
E201

SCOPE OF WORK

NEW CONSTRUCTION OF A TWO STORY BUILDING FOR BOYS AND GIRLS CLUB. PROJECT CONSISTS OF OFFICE SPACES, CLASSROOMS, AND A GARAGE.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-SINGLE LINE DIAGRAM

A. ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.

B. WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT, THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.

C. PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED

D. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.

E. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.

F. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.

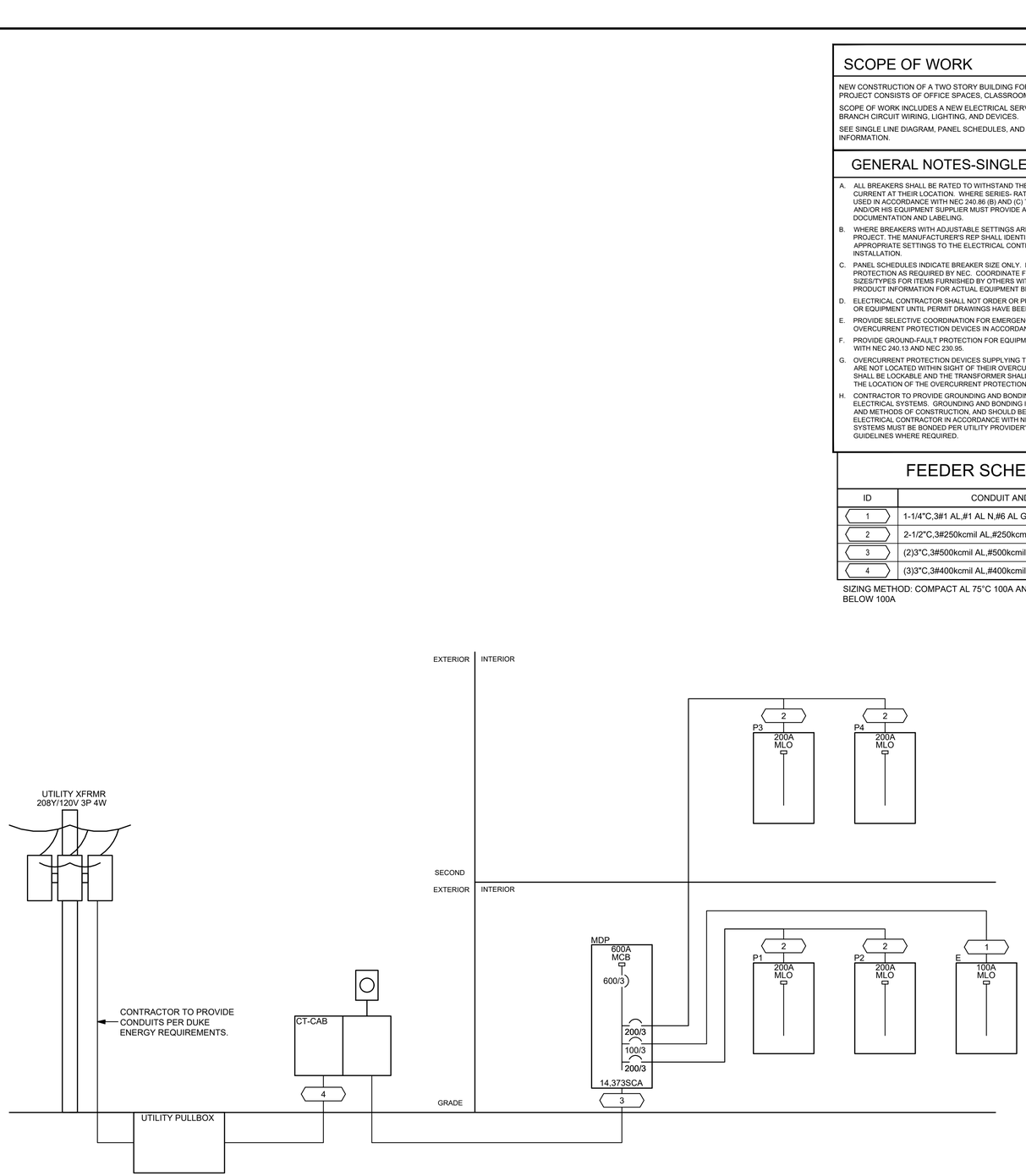
G. OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

FEEDER SCHEDULE

ID	CONDUIT AND FEEDER
1	1-1/4"C,3#1 AL,#1 AL N,#6 AL G
2	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G
3	(2)3"C,3#500kcmil AL,#500kcmil AL N
4	(3)3"C,3#400kcmil AL,#400kcmil AL N

SIZING METHOD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C BELOW 100A



SINGLE LINE DIAGRAM

ELECTRICAL LEGEND

*SEE LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPES.

$	SINGLE POLE LIGHT SWITCH
$3	THREE WAY LIGHT SWITCH
$4	FOUR WAY LIGHT SWITCH
$D	DIMMER SWITCH
$FS	FAN SPEED CONTROL
OCDT	OCC SENSOR - CEILING - DUAL TECHNOLOGY
OCPIR	OCC SENSOR - CEILING - PASSIVE INFRARED
$DT	OCC SENSOR - WALL - DUAL TECHNOLOGY
$PIR	OCC SENSOR - WALL - PASSIVE INFRARED
	OCC SENSOR POWER PACK
	OCC SENSOR POWER PACK - 2 CKT
	DUPLEX RECEPTACLE
USB	DUPLEX RECEPTACLE W/USB JACKS
	COUNTER HEIGHT DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	COUNTER HEIGHT QUAD RECEPTACLE
(CLNG)	CEILING (SHOW WINDOW) RECEPTACLE
GFCI	DUPLEX - GFCI RECEPTACLE
GFCI	COUNTER HEIGHT DUPLEX - GFCI RECEPTACLE
	SPLIT-WIRED (SWITCHED) RECEPTACLE
WP GFCI	WEATHER PROOF - GFCI RECEPTACLE
DW GFCI	DISHWASHER - GFCI RECEPTECLE
DISP.	GARBAGE DISPOSAL
MW	MICROWAVE RECEPTACLE
FRIG	REFRIGERATOR RECEPTACLE
RANGE	RANGE - 208-240V/ 1-PHASE 50 AMP RECEPTACLE
WASH GFCI	WASHER - GFCI RECEPTACLE
DRYER	DRYER - 208-240V/ 1-PHASE 30 AMP RECEPTACLE
W/D	STACKED WASHER/DRYER - 208-240V/ 1-PHASE 30 AMP RECEPTACLE
	DUPLEX - MONUMENT FLOOR BOX
	DUPLEX - RECESSED FLOOR BOX
	PANELBOARD
	PANELBOARD W/ BUS (MCB OR MLO) - SINGLE LINE DIAGRAM
	TRANSFORMER - SINGLE LINE DIAGRAM
	TRANSFORMER W/ GROUND - SINGLE LINE DIAGRAM
	PADMOUNT TRANSFORMER - SINGLE LINE DIAGRAM
	AUTOMATIC TRANSFER SWITCH (ATS) - SINGLE LINE DIAGRAM
	STANDBY/EMERGENCY GENERATOR - SINGLE LINE DIAGRAM
	* METER BASE - SINGLE LINE DIAGRAM
	FUSED DISCONNECT - SINGLE LINE DIAGRAM
	* CT CABINET - SINGLE LINE DIAGRAM

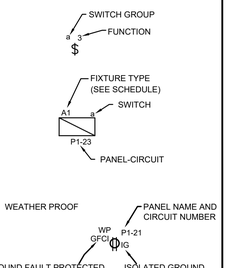
L5-20R	LOCKING 125V/20 AMP - RECEPTACLE
L6-20R	LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE
L5-30R	LOCKING 125V/30 AMP - RECEPTACLE
L6-30R	LOCKING 250V/20 AMP (1-PHASE) - RECEPTACLE
PP	FURNITURE POWER POLE - RECEPTACLE
RFF	FURNITURE RECESSED FLOOR FEED
WFF	FURNITURE WALL FEED
FB	RECESSED FLOOR BOX - MULTI-SERVICE (POWER/DATA)
AV	RECESSED FLOOR BOX - MULTI-SERVICE W/AV
PT	RECESSED MULTI-SERVICE POKE THRU
	SPECIAL CONNECTION
	SIMPLEX RECEPTACLE
	EQUIPMENT CONNECTION
$M	MANUAL MOTOR STARTER
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	FUSED DISCONNECT W/MAGNETIC MOTOR STARTER
	JUNCTION BOX
HNE	HOME NETWORK ENCLOSURE
	SECURITY CAMERA
	DATA LOCATION (RING & STRING, U.N.O)
	VOICE DROP - LOCATION
	VOICE/DATA DROP - LOCATION
	CABLE TV (COAX) - LOCATION
CR	CARD READER
DR	DOOR RELEASE - ACCESS CONTROL
DS	DOOR STRIKE - ACCESS CONTROL
ML	MAG-LOCK - ACCESS CONTROL
PS	POSITION SWITCH
PR	PROXY READER
RE	REQUEST TO EXIT SWITCH
WAP	WIRELESS INTERNET ACCESS POINT
	DOOR HOLD - FIRE ALARM
DSD	DUCT SMOKE DETECTOR
FABP	FIRE ALARM BOOSTER PANEL
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FS	SPRINKLER FLOW SWITCH
H	HEAT DETECTOR - FIRE ALARM
	HORN - FIRE ALARM
	HORN/STROBE - FIRE ALARM
PIV	POST INDICATOR VALVE - (PIV)
PRE-A	PRE-ACTION PANEL
PS	PRESSURE SWITCH
F	PULL STATION - FIRE ALARM
SD	SMOKE DAMPER
SD	SMOKE DETECTOR
CO SD	COMBINATION SMOKE/CO2 DETECTOR
SP	SPEAKER - FIRE ALARM
	SPEAKER/STROBE - FIRE ALARM
	STROBE - FIRE ALARM

* FINAL METER CONFIGURATION TBD/ APPROVED BY LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.

ABBREVIATIONS:

#	Number
Ω	Ohm
Φ	Phase
A	Amperes
AC	Alternating Current
A/C	Air Conditioning
AFCI	Arc Fault Current Interrupter
AHU	Air Handling Unit
AIC	Ampere Interrupting Capacity
AL	Aluminum
ATS	Automatic Transfer Switch
ATC	Automatic Temperature Control
AWG	American Wire Gauge
C	Conduit
CATV	Cable Television
CB	Critical Branch
C/B	Circuit Breaker
CKT	Circuit
CCTV	Closed Circuit Television
CT	Current Transformer
CU	Condensing Unit
DC	Direct Current
DIA	Diameter
EC	Electrical Contractor
EF	Exhaust Fan
ELEV	Elevator
EM	Emergency
EMT	Electrical Metallic Tubing
EPO	Emergency Power Off
EWC	Electric Water Cooler
EWH	Electric Water Heater
FA	Fire Alarm
FAA	Fire Alarm Annuciator
FLA	Full Load Amperes
FMC	Flexible Metal Conduit
GF	Gas Furnace
GFCI	Ground Fault Current Interrupter
GND	Ground
GWH	Gas Water Heater
HOA	Hand-Off-Automatic Switch
HVAC	Heating, Ventilation, Air Conditioning
HP	Heat Pump
HZ	Hertz
IG	Isolated Ground
IMC	Intermediate Metal Conduit
KCMIL	Thousand Circular Mils
KVA	Kilovolt-Amperes
LFMC	Liquid Tight Metal Conduit
LTG	Lighitng
LRA	Locked Rotor Amperes
MC	Metal Clad Cable
MCB	Main Circuit Breaker
MCC	Motor Control Center
MLO	Main Lug Only
NC	Normally Closed
NEC	National Electrical Code
NEMA	National Electrical Manufactures Association
NFPA	National Fire Protection Association
NL	Night Lighting (Egress Illumination)
NO	Normally Open
NTS	Not To Scale
P	Pole
PB	Push Button or Panic Button or Pull Box
PNL	Panel
PWR	Power
QTY	Quantity
REQ	Required
RMC	Rigid Metal Conduit
RNC	Rigid Non-Metallic Conduit
RTU	Roof Top Unit
ST	Shunt Trip
SW	Switch
TSTAT	Thermostat
TYP	Typical
UG	Underground
UL	Underwriters Labratory
UNO	Unless Noted Otherwise
V	Volt
VA	Volt-Amperes
W	Watt or Wire
WP	Weather Proof
XFMR	Transformer

EXAMPLES:



NOTE: ALL ITEMS MAY NOT BE USED.

ISSUANCES

NO.	DESCRIPTION	DATE
1	PERMIT SET	01/08/2024
2	BID SET	02/12/2024

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

PROJECT NO.: 10204

SCALE:AS NOTED

DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL DETAILS

SHEET NO.
E300

MDP

ROOM
MOUNTING **SURFACE**
FED FROM **CT–CAB**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **600**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **600**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	200/3	49	PANEL P1	a	2	20/1	0	SPACE
3	|			b	4	20/1	0	SPACE
5	|			c	6	20/1	0	SPACE
7	200/3	8.71	PANEL P2	a	8	20/1	0	SPACE
9	|			b	10	20/1	0	SPACE
11	|			c	12	20/1	0	SPACE
13	100/3	5.64	PANEL E	a	14	20/1	0	SPACE
15	|			b	16	20/1	0	SPACE
17	|			c	18	20/1	0	SPACE
19	200/3	61.6	PANEL P3	a	20	20/1	0	SPACE
21	|			b	22	20/1	0	SPACE
23	|			c	24	20/1	0	SPACE
25	200/3	34.5	PANEL P4	a	26	20/1	0	SPACE
27	|			b	28	20/1	0	SPACE
29	|			c	30	20/1	0	SPACE
31	70/3	5.33	ELEVATOR MOTOR	a	32	20/1	0	SPACE
33	|			b	34	20/1	0	SPACE
35	|			c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	13.9	17.4	(125%)	RECEPTACLES	35.7	22.9	(50%>10)
LARGEST MOTOR	15.1	3.78	(25%)	CONTINUOUS	9	11.3	(125%)
MOTORS	9.17	9.17	(100%)	NONCONTINUOUS	10.2	10.2	(100%)
				HEATING	86.9	86.9	(100%)
				COOLING	73.9	0	(0%)
				TOTAL LOAD		161	
				BALANCED 3-PHASE LOAD		448 A	
				PHASE A		97.2%	
				PHASE B		104%	
				PHASE C		98.5%	

P1

ROOM
MOUNTING **FLUSH**
FED FROM **MDP**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **200**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.36	RECEPTACLE	a	2	20/2	3	WH–1
3	20/1	1.2	CP1	b	4	|		
5	20/1	0.72	RECEPTACLE	c	6	30/2	4	CH–1
7	20/1	1.26	RECEPTACLE	a	8	|		
9	20/1	0.72	RECEPTACLE	b	10	40/3	9	EDWH1
11	20/1	0.72	RECEPTACLE	c	12	|		
13	20/1	1.26	RECEPTACLE	a	14	|		
15	20/1	1.44	RECEPTACLE	b	16	20/2	3	WH–1
17	20/1	0.72	RECEPTACLE	c	18	|		
19	20/1	0.72	RECEPTACLE	a	20	20/2	3	WH–1
21	20/1	0.5	FRIG.	b	22	|		
23	20/1	1.68	MICROWAVE, RECEPTACLE	c	24	20/1	1.8	RECEPTACLE
25	20/1	1.44	RECEPTACLE	a	26	20/1	0.18	RECEPTACLE
27	20/1	0.943	E–3, LIGHTING	b	28	20/1	0.5	FRIG.
29	20/1	1.11	LIGHTING	c	30	20/1	1.86	MICROWAVE, RECEPTACLE
31	20/1	0.888	LIGHTING	a	32	20/1	1.38	E–1, LIGHTING
33	20/1	0.784	LIGHTING	b	34	20/1	1.05	LIGHTING
35	20/1	1.2	SIGNAGE	c	36	20/1	0.074	LIGHTING
37	20/1	0.169	LIGHTING	a	38	20/1	0.052	LIGHTING
39	20/2	0.984	LIGHTING	b	40	20/1	0.1	FIRE ALARM PANEL
41	|			c	42	20/1	1.2	DISHWASHER

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	8.33	10.4	(125%)	RECEPTACLES	13.1	11.5	(50%>10)
LARGEST MOTOR	0.1	0.025	(25%)	CONTINUOUS	9	11.3	(125%)
MOTORS	0.3	0.3	(100%)	NONCONTINUOUS	5.3	5.3	(100%)
				HEATING	13	13	(100%)
				TOTAL LOAD		51.8	
				BALANCED 3-PHASE LOAD		144 A	
				PHASE A		96.2%	
				PHASE B		93.2%	
				PHASE C		111%	

P2

ROOM
MOUNTING **FLUSH**
FED FROM **MDP**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **200**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.08	RECEPTACLE	a	2	20/1	0.002	ELECTROMAGNETIC DOOR HOLDER
3	20/1	1.08	RECEPTACLE	b	4	20/1	1.66	O.D.O.
5	20/1	1.62	RECEPTACLE	c	6	20/1	1.66	O.D.O.
7	20/1	0.72	RECEPTACLE	a	8	20/1	0	SPACE
9	20/1	0.9	RECEPTACLE	b	10	20/1	0	SPACE
11	20/1	0	SPACE	c	12	20/1	0	SPACE
13	20/1	0	SPACE	a	14	20/1	0	SPACE
15	20/1	0	SPACE	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	1.66	0.414	(25%)	MOTORS	3.31	3.31	(100%)
				RECEPTACLES	5.4	5.4	(50%>10)
				NONCONTINUOUS	0.002	0.002	(100%)
				TOTAL LOAD		9.13	
				BALANCED 3-PHASE LOAD		25.3 A	
				PHASE A		62%	
				PHASE B		125%	
				PHASE C		113%	

E

ROOM
MOUNTING **FLUSH**
FED FROM **MDP**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **100**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.18	RECEPTACLE	a	2	20/1	1.2	ELEVATOR CONTROLS
3	20/1	0.054	LIGHTING	b	4	20/1	0.5	ESP1
5	20/1	0.18	RECEPTACLE	c	6	20/1	0.18	RECEPTACLE
7	20/1	0.111	LIGHTING	a	8	20/1	0.054	LIGHTING
9	30/2	3	UPS	b	10	20/1	0	SPACE
11	|			c	12	20/1	0	SPACE
13	20/1	0.18	SECURITY SYSTEM	a	14	20/1	0	SPACE
15	20/1	0	SPACE	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.42	1.77	(125%)	RECEPTACLES	1.22	1.22	(50%>10)
				NONCONTINUOUS	3	3	(100%)
				TOTAL LOAD		5.99	
				BALANCED 3-PHASE LOAD		16.6 A	
				PHASE A		86.2%	
				PHASE B		111%	
				PHASE C		102%	

P3

ROOM
MOUNTING **FLUSH**
FED FROM **MDP**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **200**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	45/3	11.2	RTU–1	a	2	30/3	7.21	RTU–7
3	|			b	4	|		
5	|			c	6	|		
7	30/3	9.37	RTU–2	a	8	50/3	15.1	RTU–5
9	|			b	10	|		
11	|			c	12	|		
13	30/3	9.37	RTU–3	a	14	20/3	0	SPACE
15	|			b	16	|		
17	|			c	18	|		
19	20/1	0.72	RECEPTACLE	a	20	15/1	0.228	E–2
21	20/1	1.44	RECEPTACLE	b	22	20/1	1.8	RECEPTACLE
23	20/1	0.72	RECEPTACLE	c	24	20/1	0.18	RECEPTACLE
25	20/1	0.9	RECEPTACLE	a	26	20/1	0.54	RECEPTACLE
27	20/1	0.9	RECEPTACLE	b	28	20/1	0.9	RECEPTACLE
29	20/1	0.18	RECEPTACLE	c	30	20/1	0.18	RECEPTACLE
31	20/1	0.18	RECEPTACLE	a	32	20/1	0.18	RECEPTACLE
33	20/1	0.18	RECEPTACLE	b	34	20/1	0.18	RECEPTACLE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	15.1	3.78	(25%)	RECEPTACLES	9.18	9.18	(50%>10)
MOTORS	0.228	0.228	(100%)	HEATING	52.2	52.2	(100%)
				COOLING	52.2	0	(0%)
				TOTAL LOAD		65.4	
				BALANCED 3-PHASE LOAD		182 A	
				PHASE A		98.1%	
				PHASE B		111%	
				PHASE C		90.9%	

P4

ROOM
MOUNTING **FLUSH**
FED FROM **MDP**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **200**
NEUTRAL **100%**

AIC **T.B.D.**
MAIN BKR **MLO**
LUGS **STANDARD**

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	45/3	10.4	RTU–4	a	2	20/1	1.8	RECEPTACLE
3	|			b	4	20/1	1.8	RECEPTACLE
5	|			c	6	20/1	1.8	RECEPTACLE
7	45/3	11.2	RTU–6	a	8	20/1	0.9	RECEPTACLE
9	|			b	10	20/1	0.18	RECEPTACLE
11	|			c	12	20/1	0.36	RECEPTACLE
13	20/1	0	SPACE	a	14	20/1	0.5	FRIG.
15	20/1	0.942	LIGHTING	b	16	20/1	0.443	LIGHTING
17	20/1	0.665	LIGHTING	c	18	20/1	0.332	LIGHTING
19	20/1	1.24	LIGHTING	a	20	20/1	0.512	LIGHTING
21	20/1	1.2	DISHWASHER	b	22	20/1	0	SPACE
23	20/1	0.1	CP–4 (VVT CONTROLS)	c	24	20/1	0	SPACE
25	20/1	0.1	CP–5 (VVT CONTROLS)	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	4.13	5.16	(125%)	RECEPTACLES	6.84	6.84	(50%>10)
LARGEST MOTOR	11.2	2.79	(25%)	NONCONTINUOUS	1.9	1.9	(100%)
				HEATING	21.6	21.6	(100%)
				COOLING	21.6	0	(0%)
				TOTAL LOAD		38.3	
				BALANCED 3-PHASE LOAD		106 A	
				PHASE A		107%	
				PHASE B		102%	
				PHASE C		91%	

ISSUANCES

DATE	NO	DESCRIPTION
01/09/2024	1	PERMIT SET
02/12/2024	2	BID SET

BOYS & GIRLS CLUB
PRICE HILL TEEN CENTER
1205 DEWEY AVENUE

PR - 10204

ENGINEERED BUILDING SYSTEMS INC.
Shared Success Through Collaboration and Efficiency
515 Monmouth Street, Suite 201
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH

DRAWN BY	CHECKED BY
TAZ	PRS

PROJECT NO.: 10204

SCALE:AS NOTED

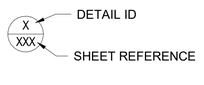
DATE: 01-08-2024

DRAWING TITLE
ELECTRICAL DETAILS

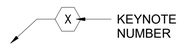
SHEET NO.
E301

REFERENCE AND KEYNOTE SYMBOLS

ELEVATION REFERENCE SYMBOL



CALLOUT REFERENCE SYMBOL



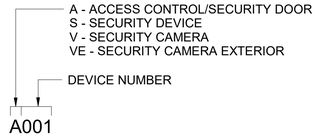
KEYNOTE REFERENCE SYMBOL

ACCESS CONTROL/SECURITY DOOR SURROUND CALLOUT

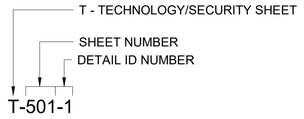
SHEET AND TAG SYMBOLS

SECURITY CAMERA TAG SYMBOL

ACCESS CONTROL/SECURITY TAG SYMBOL



DEVICE ID



DETAIL AND CAMERA VIEW SHEET NUMBER ID

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
J	JUNCTION BOX WALL MOUNTED
J	JUNCTION BOX MOUNTED IN CEILING
J	JUNCTION BOX MOUNTED IN FLOOR
PB	PULL BOX
T P	POWER POLE WITH DEVICES INDICATED (P-POWER, T-TELECOM, P/T-POWER AND TELECOM)

CONNECTOR SYMBOLS

SYMBOL	DESCRIPTION
	CONDUIT UP
	CONDUIT DOWN
	BREAK SYMBOL
	CONDUIT STUB TERMINATE WITH BUSHING
	CONDUIT SLEEVE

TELECOMMUNICATION SYMBOLS

SYMBOL	SECTION	DESCRIPTION
J J	270528	J-HOOK CABLE SUPPORT SYSTEM (REFER TO PLANS), HEIGHT VARIES, REFER TO PLANS FOR ADDITIONAL INFORMATION.
	270528	WIRE MESH OR SOLID BOTTOM CABLE TRAY SYSTEM (REFER TO PLANS), 12"Wx4"D UNLESS OTHERWISE NOTED, MOUNTING HEIGHT IS TO BOTTOM OF TRAY. HEIGHT VARIES, REFER TO PLANS FOR ADDITIONAL INFORMATION.
	270528	TELECOMMUNICATIONS SLEEVE. UNLESS OTHERWISE NOTED, PROVIDE TWO 1" SLEEVES FROM THE CORRIDOR INTO EVERY ROOM. ONE SHALL BE FOR UTP CABLING AND THE OTHER FOR SECURITY, CENTRAL SOUND, AND CATV CABLING.
DMARC	271100	DMARC LOCATION FOR ALL TELECOMMUNICATION AND DATA SERVICES.
W	271500, 273123	WALL PHONE OUTLET. REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION. PROVIDE A TELEPHONE HANDSET. WP/AR - WALL PHONE FOR AREA OF REFUGE, COORDINATE WITH FIRE ALARM CONTRACTOR.
#	271500, 273123	DATA OUTLET. "#" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (BLANK IMPLIES ONLY ONE). REFER TO THE FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
#	271500	DATA CEILING OUTLET. "#" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (BLANK IMPLIES ONLY ONE). REFER TO FACEPLATE DETAILS FOR ADDITIONAL INFORMATION.
#	271500	DATA FLOOR OUTLET. "#" SUBSCRIPT INDICATES QUANTITY OF CABLES/JACKS REQUIRED (BLANK IMPLIES ONLY ONE). FLOOR BOX OR POKE THROUGH SPECIFIED ON THE POWER PLANS UNLESS OTHERWISE NOTED.
WAP	271500, 272133	WIRELESS ACCESS POINT CABLING LOCATION. PROVIDE WITH 15' OF CABLE COILED ABOVE THE ACCESSIBLE CEILING.
WAP	271500, 272133	WIRELESS ACCESS POINT WALL MOUNT CABLING LOCATION. PROVIDE WITH 15' OF CABLE COILED ABOVE THE ACCESSIBLE CEILING.
	271100	TELECOM RACK FLOOR MOUNTED WITH 6 INCH VERTICAL CABLE MANAGERS
	271100	TELECOM MAIN GROUND BUS OR TELECOM GROUND BUS

AUDIO VISUAL SYMBOLS

SYMBOL	SECTION	DESCRIPTION
AV1	274100	PRESENTATION POINT OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION. PROVIDE A TELEPHONE HANDSET.
AV2	274100	DISPLAY OUTLET LOCATION. REFER TO THE FACEPLATE DETAILS AND CONNECTIVITY DETAILS FOR ADDITIONAL INFORMATION. -IF P INDICATES OUTLET FOR INTERACTIVE FLAT PANEL, MOUNTED AT 60" AFF. COORDINATE WITH MOUNTING BRACKET AND ARCHITECTURAL.
X	274000	DISPLAY MONITOR. "X" INDICATES SIZE OF MONITOR EQUIPPED WITH MOUNTING BRACKET. -IFP INDICATES INTERACTIVE FLAT PANEL. COORDINATE WITH ARCHITECTURAL.
S	274100, 275120, 275127	WALL MOUNTED SPEAKER. "S" INDICATES SOUND SYSTEM, OTHER SPEAKERS INCLUDE: (PA) PUBLIC ADDRESS; (CS) CLASSROOM SOUND FIELD. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED.
S	274100, 275120, 275127	CEILING MOUNTED SPEAKER. "S" INDICATES SOUND SYSTEM, OTHER SPEAKERS INCLUDE: (PA) PUBLIC ADDRESS; (CS) CLASSROOM SOUND FIELD. SUBSCRIPT "P" INDICATES PENDANT MOUNTED. SUBSCRIPT "V" INDICATES THAT THE SPEAKER IS VOLUME CONTROLLED.

SHEET INDEX

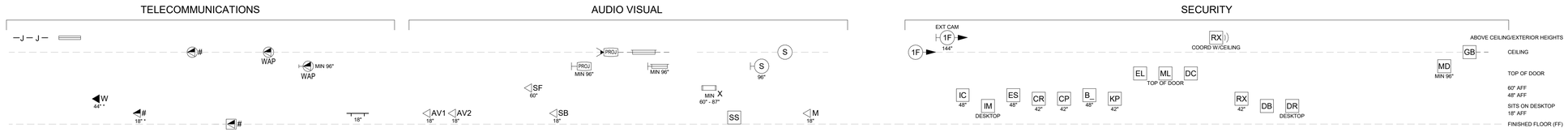
SHEET INDEX

NOTES

- ALL DIMENSIONS SHOWN ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE GRADE (AG) TO CENTERLINE OF COMPONENT.

- USE STANDARD MOUNTING HEIGHTS UON. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL MOUNTING HEIGHT DETAILS. PROJECT PLANS AND DETAILS MAY PROVIDE ADDITIONAL GUIDANCE.

TYPICAL COMPONENT MOUNTING HEIGHTS



EMBOSS
EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

TECHNOLOGY LEGENDS

21-052

T-001

PRINT DATE: 1/8/2024 10:07:31 AM

GENERAL NOTES

1 NOT ALL NOTES INDICATED ON THIS SHEET MAY BE APPLICABLE FOR ALL PROJECT CONDITIONS. NOTES APPEARING ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS ARE TO BE REVIEWED, COORDINATED AND ARE TO BE APPLIED TO ALL RELATED DRAWINGS AND DETAILS.

2 THE DRAWINGS INDICATE THE QUANTITY, TYPE AND GENERAL LOCATION OF VOICE/DATA/CATV/AUDIO/VIDEO OUTLETS REQUIRED IN EACH SPACE. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND PROJECT MANAGEMENT NECESSARY FOR A TURNKEY SYSTEM.

3 ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

4 THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND ALL UTILITY CHARGES, AND ARRANGE FOR ALL REQUIRED INSPECTIONS.

5 REFER TO THE ARCHITECTURAL INTERIOR ELEVATIONS FOR DEVICE LOCATIONS AND MOUNTING HEIGHTS FOR ADDITIONAL DETAILS. COORDINATE EXACT DEVICE LOCATIONS PRIOR TO ROUGH-IN.

6 ALL BIDDERS SHALL VISIT AND EXAMINE THE SITE. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DURING THE BIDDING PERIOD. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR FOR FAILURE TO IDENTIFY DISCREPANCIES DURING THE BIDDING PERIOD.

7 THE CONTRACTOR SHALL INCLUDE ALL OVERTIME AND PREMIUM TIME WORK THAT MUST BE PERFORMED DURING THE PERIOD OF PERFORMANCE. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR OVERTIME WORK.

8 COORDINATE EXACT LOCATIONS OF EQUIPMENT WITH OTHER TRADES. VERIFY EXACT WIRING AND CONNECTION REQUIREMENTS WITH SUBMITTAL DOCUMENTS BEFORE INSTALLATION. SPECIALTY OUTLET TYPES SHALL BE VERIFIED BEFORE ORDERING. ALL ELECTRICAL AND COMMUNICATION WORK SHOWN HERE MUST BE VERIFIED AND COORDINATED IN FIELD BEFORE INSTALLATION.

9 THE CONTRACTOR SHALL PROTECT ALL EXISTING AND NEW CONSTRUCTION FROM DAMAGE. EXISTING CEILINGS, WALLS, FLOORS AND ALL OTHER BUILDING COMPONENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IF DAMAGED. ALL DAMAGES TO THE BUILDING OR IT'S CONTENTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE TO THE OWNERS SATISFACTION.

10 ALL NEW CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE.

11 ALL WORK REQUIRING POWER OR COMMUNICATION OUTAGES OR DISRUPTION OF OWNER FUNCTIONS SHALL BE COORDINATED WITH THE PROJECT ENGINEER, OWNER AND OWNER ITS DEPARTMENT. REQUESTS FOR, NOTIFICATIONS OF, AND APPROVALS FOR OUTAGES AND DISRUPTIONS SHALL BE MADE TO OWNER AND THE ENGINEER IN WRITING, 2 WEEKS PRIOR TO THE REQUESTED OUTAGE DATE. OUTAGES SHALL NORMALLY OCCUR DURING THE OWNER'S "OFF" HOURS.

12 ALL COMMUNICATION WORK SHALL BE INSTALLED BY CERTIFIED CONTRACTORS AND THEIR EMPLOYEES PER THE CONTRACT DOCUMENTS.

13 THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT INSTALLATION TO MAINTAIN HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. THE CONTRACTOR SHALL COORDINATE SYSTEMS INSTALLATION TO MINIMIZE CONFLICT WITH EXISTING BUILDING UTILITIES AND OTHER TRADES WORK.

14 THE CONTRACTOR SHALL VERIFY EQUIPMENT RACK AND CABINET PLACEMENT AND LAYOUT WITH OWNER AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

15 ANY LOW VOLTAGE CABLING IN AN OPEN-CEILING AREA (EXAMPLE GYMNASIUM) SHALL BE INSTALLED IN CONDUIT TO THE NEAREST ACCESSIBLE CABLE TRAY OR TELECOM ROOM (TR) UNLESS NOTED OTHERWISE.

16 ALL INSTALLATIONS OF EXPOSED EQUIPMENT SHALL BE COORDINATED WITH ASSOCIATED ARCHITECTURAL DETAILS TO MEET INTENDED AESTHETIC APPEARANCE. ALL WIRING, CONDUITS, BACK BOXES AND OTHER ASSOCIATED CONNECTIONS SHALL BE CONCEALED BEHIND EQUIPMENT OR WITHIN EXPOSED MOUNTED BRACKETS. EXPOSED WIRING IS PROHIBITED.

17 THE COLOR AND FINISH OF ALL EXPOSED DEVICES IN PUBLIC AREAS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

18 ALL CONDUIT FRAMING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUITS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS. ANGLED CONDUITS ARE PROHIBITED.

19 INCLUDE ALL REQUIRED JUNCTION AND PULL BOXES REGARDLESS OF INDICATION ON THE DRAWINGS (WHICH DUE TO THE SYMBOLIC METHODS OF NOTATION, MAY BE OMITTED).

20 PULL-BOXES SHALL BE PROVIDED WHERE THE COMBINED SUM OF THE BENDS EXCEEDS 180 DEGREES AND/OR EVERY 100 LINEAR FEET. THE BEND RADIUS FOR CONDUITS SHALL BE 10X THE OUTSIDE DIAMETER FOR OPTICAL FIBER AND 4X THE OUTSIDE DIAMETER FOR MULTIPAIR COPPER.

21 PROVIDE LONG SWEEPING BENDS FOR AL COMMUNICATIONS CONDUITS 2-INCHES AND LARGER. LB FITTINGS FOR COMMUNICATION CONDUITS ARE PROHIBITED.

22 PROVIDE PULL TAPE IN ALL EMPTY CONDUIT AND INNERDUCT. PULL TAPE SHALL BE RATED FOR 200 LBS IN ALL CONDUIT.

23 CABLE TRAY SHALL BE TRAPEZE OR CANTILEVER MOUNTED ONLY. BOND ALL SECTIONS OF TRAY TOGETHER WITH MANUFACTURER APPROVED BONDING METHOD PER NEC. ALL CABLE TRAY TO BE 12-INCHES WIDE, UON. CABLE TRAY SHALL BE PROVIDED WITH 25 PERCENT SPARE CAPACITY.

24 PROVIDE A MINIMUM OF FOUR (4) CONDUITS BETWEEN STACKED CLOSETS ON SUCCESSIVE FLOORS.

25 ALL COMMUNICATIONS OUTLET BOXES SHALL BE A 4 11/16-INCH SQUARE BY 2 1/2-INCH DEEP WITH A MUD RING UON. PROVIDE A MINIMUM OF ONE (1) 1-INCH CONDUIT FOR ALL COMMUNICATIONS OUTLET BOXES. REFER TO COMMUNICATIONS DETAILS FOR SPECIFIC OUTLET BOX AND CONDUIT QUANTITY AND SIZE INFORMATION.

26 ALL EQUIPMENT SHALL BE NEW, UON.

27 BOND ALL METALLIC EQUIPMENT, RACKS, CABINETS, CABLE TRAY, CONDUITS, SLEEVES, ETC. TO THE TELECOMMUNICATIONS MAIN GROUND BUS WITH 2-HOLE NON-TWISTING LUGS. ALL CONDUITS SHALL BE REAMED WITH BUSHINGS INSTALLED.

28 PROVIDE ALL CORE DRILLING, CUTTING, AND PATCHING AND RESTORATION OF ALL FINISHED AREAS REQUIRED TO INSTALL ALL CONDUITS, SLEEVES, BOXES, ETC. SEAL ALL CORE DRILLS AFTER RACEWAY, CONDUITS, ETC. ARE INSTALLED.

29 PLACEMENT OF UNAUTHORIZED CABLING IN THE COMMUNICATIONS PATHWAYS I.E. CABLE TRAY, J HOOKS, RACEWAY, ETC. IS PROHIBITED.

30 ALL SLEEVES AND PENETRATIONS SHALL BE ACOUSTICALLY AND FIRE TREATED TO MEET WALL RATING. FIRESTOPPING ASSEMBLIES SHALL BE PROVIDED AT PENETRATIONS OF CONDUITS, BUS DUCTS, CABLES, CABLE TRAYS AND OTHER COMMUNICATIONS ITEMS. REFER TO THE THROUGH PENETRATION FIRESTOPPING SPECIFICATION FOR COMPLETE REQUIREMENTS.

GENERAL TELECOM NOTES

1 ALL WORK SHALL COMPLY WITH APPLICABLE ANSI/TIA/BICSI STANDARDS.

2 FIELD COORDINATE THE LOCATION OF COMMUNICATIONS EQUIPMENT IN ALIGNMENT WITH APPLICABLE CODES.

3 THE CONTRACTOR SHALL COORDINATE DEVICE OUTLET LOCATIONS WITH ARCHITECTURAL AND CASEWORK DRAWINGS PRIOR TO ROUGH-IN. REPORT ANY CONFLICTS TO THE CM, ARCHITECT, AND ENGINEER FOR RESOLUTION.

4 ALL COMMUNICATIONS CABLING SHALL BE INSTALLED IN CONDUITS, CABLE TRAY, OR AN APPROVED RACEWAY SYSTEM. WHERE CABLE TRAY, CONDUIT, OR RACEWAY IS NOT AVAILABLE ALL CABLES SHALL BE INSTALLED IN J-HOOKS SUPPORTED EVERY 5-FEET, SUFFICIENT IN SIZE TO HANDLE ALL BUNDLED CABLES WHILE MINIMIZING CRUSHING. COPPER AND FIBER OPTIC CABLES WILL BE DIVIDED INTO SEPARATE BUNDLES AND INSTALLED IN SEPARATE J-HOOKS. IF CABLE SLACK EXCEEDS 12-INCHES BETWEEN SUPPORTS, ADDITIONAL SUPPORTS WILL BE INSTALLED TO TAKE UP SLACK AND RELIEVE CABLE STRESS.

5 CATEGORY 6/6A CABLES SHALL BE CONTINUOUS FROM TELECOM ROOM TO WORK AREA OUTLET AND FREE FROM SPLICES, REVERSES, GROUNDS, OR OTHER CONNECTIONS. PROVIDE A 5-FOOT SERVICE LOOP IN THE CEILING (AT THE WORK AREA END) FOR EACH HORIZONTAL CABLE.

6 DO NOT INSTALL CATEGORY 6/6A HORIZONTAL CABLES THAT EXCEED 90 METERS.

7 ALL COPPER TERMINATION HARDWARE SHALL BE 110 STYLE IDC, UON.

8 COMMUNICATIONS CABLING SHALL NOT BE SPLICED, UON.

9 COMMUNICATIONS CONDUIT FILL CAPACITIES ARE GOVERNED BY THE NFPA-70 (NEC) AND SHALL BE FOLLOWED. DO NOT EXCEED 40 PERCENT FILL ON ANY COMMUNICATIONS CONDUIT.

10 CAREFULLY LAY ALL CABLE WITH APPROPRIATE RADIUS OF CURVATURE AND PROTECT AT BENDS AND CORNERS. OBSERVE MINIMUM BEND RADIUS AND TENSION LIMITATIONS AS SPECIFIED BY TIA. ANY ADDITIONAL SLEEVES AND/OR PENETRATIONS REQUIRED FOR THE INSTALLATION OF COMMUNICATIONS SYSTEM CABLING NOT SHOWN ON THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

11 THE CONTRACTOR SHALL ENSURE THAT ALL INSTALLED CABLES ARE FREE FROM TWISTS, KINKS, SHARP BENDS, CUTS, GOUGES OR ANY OTHER PHYSICAL DAMAGE.

12 MONITOR CABLE PULL TENSION TO ENSURE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS ARE NOT EXCEEDED.

13 ALL CATEGORY 6/6A CABLING MAY BE ROUTED IN THE SAME PATHWAY.

14 THE CONTRACTOR SHALL ENSURE ALL CATEGORY 6/6A CABLING IS SEPARATED FROM LIGHTING, POWER, 70-VOLT AUDIO, MICROPHONE LEVEL, RF, AND SPEAKER LEVEL CIRCUITS IAW ANSI/TIA-568 GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES.

15 CABLING ASSOCIATED WITH THE WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH A 15' COIL OF CABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST THE LOCATIONS OF THE WIRELESS ACCESS POINTS, AS REQUIRED, AFTER CONDUCTING A SITE VERIFICATION SURVEY TO ENSURE COVERAGE THROUGHOUT THE FACILITY.

16 ALL HORIZONTAL AND BACKBONE COMMUNICATIONS CABLING SHALL BE PLENUM RATED, UON. ANY LOW VOLTAGE DEVICE INSTALLED IN A PLENUM-RATED ENVIRONMENT MUST BE RATED FOR PLENUM USE.

17 ALL COMMUNICATIONS CABLING INSTALLED UNDER THE FLOOR SLAB SHALL BE WET-LISTED. CONCEAL CABLING WITHIN CONDUIT BACK TO THE TERMINATION LOCATION OR TRANSITION TO PLENUM RATED CABLING ABOVE THE CEILING.

18 ALL COMMUNICATIONS CABLING SHALL BE PROTECTED FROM EXPOSURE TO PAINT OR ANY OTHER FOREIGN MATERIAL THAT WOULD NEGATIVELY IMPACT THE VALIDITY OF THE MANUFACTURER'S PERFORMANCE WARRANTY. IF ANY CABLE IS EXPOSED TO PAINT AT ANY POINT, REGARDLESS OF THE AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE CABLE(S) AFFECTED AND WILL REPLACE THE CABLE(S) AT NO COST TO THE OWNER PER THE INSTALLATION SPECIFICATIONS INCLUDING TESTING.

19 PROVIDE ALL COPPER PATCH CORDS AND OPTICAL FIBER JUMPERS AT BOTH THE WORK AREA AND TELECOM ROOM ENDS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.

20 ALL LABELING SHALL COMPLY WITHANSI/ TIA-606 ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE. PROVIDE LABELING FOR ALL MODULAR OUTLETS, FACEPLATES, PATCH PANELS, CABLES, PATCH CABLES, FIBER SPLICE TRAYS, RACKS, CABINETS, PBB/SBB(S), ETC. REFER ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS FOR THE OWNER'S EXACT REQUIREMENTS.

21 TELECOMMUNICATIONS FACEPLATES SHALL MATCH ELECTRICAL SWITCH AND ELECTRICAL RECEPTACLE PLATE FINISHES.

22 EQUIPMENT CABINETS AND PATCH PANELS SHALL BE ARRANGED TO ALLOW FOR A NATURAL WIRING PROGRESSION IN FUNCTIONAL FIELDS. MINIMIZE CROSSING OF WIRES AND ALLOW FOR EASY ACCESS TO ALL COMPONENTS.

23 SURFACE MOUNTED RACEWAY SHALL BE USED BELOW LAY-IN CEILING IN REMOLDED AREA WHERE CONDUIT, WIRING AND DEVICES CANNOT BE CONCEALED. PROVIDE WIREMOLD 4000 SERIES OR EQUAL, UON. PROVIDE COMPLETE WITH ALL FITTINGS, BARRIERS, COVERS AND MOUNTING ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER. COORDINATE ROUTING OF RACEWAY WITH ARCHITECT PRIOR TO ROUGH-IN.

GENERAL AUDIO VISUAL NOTES

1 SUPPLY ALL JACKS, RACKS, WIRE, CABINETRY, CONNECTORS, MATERIALS, PARTS, EQUIPMENT AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF THE SYSTEMS, IN FULL ACCORDANCE WITH THE RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURERS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

2 REFER TO FLOW DIAGRAMS, RISERS, AND SPECIFICATIONS FOR COMPLETE OPERATIONAL REQUIREMENTS. CONTRACTOR IS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

3 WHERE SIGNAL TYPES ARE PROVIDED AND NO CABLE TYPE INDICATED THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE INTERCONNECT CABLE BASED ON THE SIGNAL TYPE REQUIREMENTS.

4 ALL JUNCTION BOXES IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED. CONDUITS SHALL BE CONCEALED, UON.

5 STRUCTURAL SUPPORT FOR AUDIOVISUAL EQUIPMENT SHALL BE PROVIDED BY OTHERS AT LOCATIONS DESIGNATED ON THESE DRAWINGS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BLOCKING FOR WALL MOUNTED DEVICES AND OVERHEAD SUPPORT FOR CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. REFER TO ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS AND REQUIREMENTS.

6 CEILING MOUNTED SPEAKER ENCLOSURES SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE.

7 ALL EXPOSED INTERCONNECT CABLES SHALL BE MOLDED CONNECTOR TYPE. FIELD TERMINATED INTERCONNECT CABLES ARE PROHIBITED.

8 FURNITURE LAYOUT INDICATED ON DRAWINGS IS NOT FINAL AND MAY DIFFER. COORDINATE FINAL FURNITURE CONFIGURATION WITH OWNER PRIOR TO FABRICATION/CONSTRUCTION.

9 TERMINAL BLOCK, BOARDS, STRIPS, OR CONNECTORS SHALL BE FURNISHED FOR ALL CABLES, WHICH INTERFACE WITH RACKS, CABINETS, CONSOLES, OR EQUIPMENT MODULES.

10 ROUTE ALL CABLE AND WIRING WITHIN EQUIPMENT RACKS ACCORDING TO FUNCTION, SEPARATING WIRES OF DIFFERENT SIGNAL LEVELS (MICROPHONE, LINE LEVEL, AMPLIFIER OUTPUT, AC, ETC.) BY AS MUCH DISTANCE AS POSSIBLE. NEATLY ARRANGE AND BUNDLE ALL CABLE LOOSELY WITH HOOK-N-LOOP TIES.

11 POWER CABLES, CONTROL CABLES, AND HIGH-LEVEL CABLES SHALL BE INSTALLED ON THE LEFT SIDE OF AN EQUIPMENT RACK, AS VIEWED FROM THE REAR. ALL OTHER CABLES SHALL BE INSTALLED ON THE RIGHT SIDE OF THE EQUIPMENT RACK, AS VIEWED FROM THE REAR.

12 CABLING WITHIN RACKS SHALL BE CONTAINED IN "FINGER TRAY" OR HOOK-N-LOOP TIED TO THE SIDE OF THE RACK IN A NEAT AND ORDERLY FASHION.

13 ALL CABLES ROUTED OUTSIDE OF RACKS AND CONDUIT SHALL BE CONTAINED IN A SUITABLE HARNESS OR WIREWAY TO MAINTAIN A NEAT AND CLEAN INSTALLATION.

14 OBSERVE PROPER CIRCUIT POLARITY AND LOUDSPEAKER WIRING POLARITY. NO CABLES SHALL BE WIRED WITH A POLARITY REVERSAL BETWEEN CONNECTIONS, AT EITHER END.

15 ALL CABLES SHALL BE CONTINUOUS LENGTHS WITHOUT SPLICES. ALL SYSTEM WIRE (EXCEPT SPARE WIRE, AFTER BEING CUT AND STRIPPED) SHALL HAVE THE WIRE STRAND TWISTED BACK TO THEIR ORIGINAL LAY AND BE TERMINATED BY APPROVED SOLDERED OR MECHANICAL MEANS.

16 CLEARLY AND PERMANENTLY LABEL ALL JACKS, CONTROLS, CONNECTIONS, AND SO FORTH. ALL LABELING SHALL BE COMPLETED PRIOR TO FINAL SYSTEM EQUALIZATION. HAND LABELING IS PROHIBITED.

17 ALL EQUIPMENT SHALL BE HELD FIRMLY IN PLACE WITH APPROPRIATE MOUNTING HARDWARE. ALL EQUIPMENT SHALL BE INSTALLED TO PROVIDE REASONABLE SAFETY TO THE OPERATOR. SUPPLY ADEQUATE VENTILATION FOR ALL ENCLOSED EQUIPMENT ITEMS WHICH PRODUCE HEAT.

18 A MOCK-UP AND MEETING SHALL OCCUR FOR TYPICAL PRESENTATION WALL TECHNOLOGY WHERE INTERACTIVE PROJECTORS AND/OR INTERACTIVE FLAT PANELS OCCUR. WALL SHALL BE FINISHED AND PROJECTOR MARKERBOARD AND/OR VISUAL WALL DISPLAY WALLCOVERING, INTERACTIVE PROJECTOR AND/OR INTERACTIVE FLAT PANEL, DATA AND AV CONNECTIVITY, ELECTRICAL AND ALL ACCESSORIES SHALL BE INSTALLED. CONSTRUCTION MANAGER, ARCHITECT, PROJECTOR MARKERBOARD AND/OR VISUAL DISPLAY WALLCOVERING INSTALLER/CONTRACTOR, TECHNOLOGY INSTALLER/CONTRACTOR, AND ELECTRICAL INSTALLER/CONTRACTOR SHALL BE PRESENT TO REVIEW MOCK-UP. PURPOSE OF MOCK-UP IS TO CONFIRM INTERACTIVE TECHNOLOGY IS FUNCTIONING AS INTENDED, THAT THERE IS PROPER COORDINATION BETWEEN THE WALL SURFACE, THE PROJECTOR MARKERBOARD OR VISUAL DISPLAY WALLCOVERING AND THE INTERACTIVE PROJECTOR AND/OR INTERACTIVE FLAT PANEL. ALL FINAL MOUNTING HEIGHTS FOR DIFFERENT ROOMS AND SPACES SHALL BE CONFIRMED AT THE MOCK-UP REVIEW.

GENERAL AUDIO VISUAL NOTES

AUDIO VISUAL SYSTEM ROUGH IN AND INFRASTRUCTURE RECOMMENDATIONS

1 LARGE DISPLAYS (70"AND UP): BACK BOX WITH AC RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER CHIEF PAC525FBP2; PROVIDE A MINIMUM OF ONE NETWORK DATA DROP FOR DISPLAY. (ONE NETWORK DROP FOR WIRELESS GATEWAY).

2 DIGITAL SIGNAGE DISPLAYS: BACK BOX WITH FLANGE AND COVER CHIEF PAC525FCW OR CHIEF PAC525FBP2 AC RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER; PROVIDE A MINIMUM OF TWO NETWORK DATA DROPS ONE FOR DISPLAY ONE FOR SIGNAGE PLAYER.

3 DISPLAYS (70" AND BELOW): BACK BOX WITH FLANGE AND COVER CHIEF PAC525FCW OR CHIEF PAC525FBP2 AC RECEPTACLES AND SURGE PROTECTION WITH FLANGE AND COVER; PROVIDE A MINIMUM OF ONE NETWORK DATA DROP FOR DISPLAY. (ONE NETWORK DROP FOR WIRELESS GATEWAY).

4 AUDIO INPUT PLATE: (PASSIVE) 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".

5 DIGITAL MEDIA PLATE: (ACTIVE) MIDDLE ATLANTIC EVOLUTION 4-GANG WALL BOX OR 8-GANG WALL BOX.

6 DANTE I/O PLATE: (ACTIVE) MIDDLE ATLANTIC EVOLUTION 4-GANG WALL BOX OR 8-GANG WALL BOX.

7 SDI CAMERA: SINGLE OR 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".

8 AV CONTROL TOUCH PANEL: 2 GANG BOX WITH PLASTER RING TOTAL DEPTH OF AT LEAST 3 1/2".

9 AUDIO VISUAL FLOOR POKE THRU MIDDLE ATLANTIC EVOLUTION 8"" OR 10" POKE THRU WITH RECEPTACLES, COVER AND INTERIOR PLATE OPTIONS.

emBOSS
EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

TECHNOLOGY NOTES

21-052

T-002

PRINT DATE: 1/8/2024 10:07:31 AM

GENERAL OUTSIDE PLANT (OSP) NOTES

1. THE LOCATION OF EQUIPMENT AND STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE. THERE IS NO GUARANTEE AS TO THEIR ACCURACY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EQUIPMENT WITH THE OWNER AND EXERCISE CAUTION WHEN PERFORMING WORK IN THE AREA.
2. FIELD COORDINATE LOCATION OF NEW EQUIPMENT IAW APPLICABLE CODES.
3. PRIVATE PROPERTY: TRENCHES ON PRIVATE PROPERTY AND AREAS NOT SUBJECT TO VEHICULAR TRAFFIC MAY BE BACKFILLED WITH NATIVE MATERIAL AND SHALL BE PLACED IN 12" MAXIMUM LOOSE LIFTS AND COMPACTED TO 80% MAXIMUM DENSITY PER ASTM D1557.
4. NATIVE BACKFILL: REFER TO SOIL REPORTS.
5. COMPACTION: ALL COMPACTION SHALL BE BY HAND-OPERATED, PLATE TYPE, VIBRATORY, OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTORS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. WATER DENSIFICATION BY INUNDATION OR JETTING SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM COMMUNICATIONS DESIGNER OF RECORD.
6. OBTAIN THE SIGNATURE OF THE OWNER AND OWNER'S REPRESENTATIVE SIGNIFYING THE ACCEPTABILITY OF THE DUCT PLACEMENT PRIOR TO POURING ANY CONCRETE FOR THE DUCT BANK.
7. INSTALL A PERMANENT TRACER WIRE (POLYETHYLENE INSULATED), CENTRALLY LOCATED IN TOP OF CONDUIT FORMATION, OF EACH COMMUNICATIONS DUCT BANK AND CORRESPONDING STUB OUTS. COMPRESSION TYPE CONNECTORS SHALL BE USED FOR ALL SPLICES. TEST THE WIRE FOR CONTINUITY AFTER INSTALLATION AND PROVIDE THE TEST RESULTS WITH THE AS BUILT DOCUMENTS. THE TRACER WIRE SHALL BE INSTALLED INTO ALL MAINTENANCE HOLES AND HAND HOLES.
8. JOINTS BETWEEN NON-IDENTICAL DUCT BANK COMPONENTS SHALL USE THE APPROPRIATE CONNECTORS SPECIFICALLY DESIGNED FOR THE PURPOSE.
9. FOR DRAINAGE REQUIREMENTS SLOPE DUCT BANKS A MINIMUM OF 4-INCHES PER 100'-FEET MINIMUM TOWARD EACH MAINTENANCE HOLE OR HAND HOLE.
10. CHANGES IN DIRECTION OF RUNS EXCEEDING A TOTAL OF 10 DEGREES, EITHER VERTICALLY OR HORIZONTALLY ARE TO BE ACCOMPLISHED WITH LONG SWEEPING BENDS HAVING A MINIMUM RADIUS OF 7.62M (25'). BENDS ARE NOT TO CHANGE THE INTERNAL DIAMETER OF THE DUCT. THERE SHALL BE NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS TOTALING 180 DEGREES BETWEEN PULL POINTS INCLUDING OFFSETS AND KICKS. BACK TO BACK 90 DEGREE BENDS ARE TO BE AVOIDED.
11. DUCT SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE BETWEEN MAINTENANCE HOLES TO MINIMIZE SIDE WALL PRESSURE DURING CABLE INSTALLATION. DO NOT MAKE UNNECESSARY DIRECTION CHANGES.
12. THE TRANSITIONING OF DUCTS FROM THE LOWER MAINTENANCE HOLE WINDOW TO THE NOMINAL TRENCH DEPTH SHALL BE ACCOMPLISHED NO LESS THAN 30 FEET FROM THE MAINENTANCE HOLE TO REDUCE THE RADIUS OF THE BENDS.
13. COMMUNICATIONS DUCT BANK SHALL ENTER THE LOWEST AVAILABLE WINDOW OF THE MAINTENANCE HOLE.
14. PROVIDE A PULL STRING RATED AT LEAST 200LBS TENSILE STRENGTH AFTER DUCTS HAVE UNDERGONE CLEANING. PROVIDE A MECHANICALLY EXPANDABLE, REUSABLE RUBBER PLUG FOR EACH VACANT DUCT.
15. REINFORCED DUCT BANKS SHALL BE STEEL BAR REINFORCED PER THE DIMENSIONS SHOWN ON THE DUCT BANK DETAIL DRAWINGS.
16. REINFORCE ALL NEW DUCT BANKS WITHIN 5-FEET OF MAINTENANCE HOLES AND HAND HOLES.
17. REFER TO THE SPECIFICATIONS FOR MAINTENANCE HOLE AND HAND HOLE EQUIPMENT AND ACCESSORIES.
18. THE TERMS MANHOLE AND MAINTENANCE HOLE ARE INTERCHANGEABLE.

GENERAL SECURITY NOTES

1. THE LOCATION OF EQUIPMENT SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EQUIPMENT PRIOR TO THE START OF WORK.
2. THE DRAWINGS FOR SECURITY WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE SECURITY DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS OF ALL TRADES.
3. THE ORIENTATION OF THE SYMBOLS REFLECTS THE GENERAL MOUNTING LOCATION AND ORIENTATION OF THE DEVICE. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CM, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY MOUNTING LOCATION CONFLICTS OR PROBLEMS ARE DISCOVERED.
4. ALL COMPONENTS PROVIDED ARE TO BE LISTED FOR USE IN THE SYSTEM INDICATED INCLUDING, BUT NOT LIMITED TO:
   UL294 STANDARD FOR ACCESS CONTROL SYSTEM UNITS
   UL634 STANDARD FOR CONNECTORS AND SWITCHES FOR USE WITH BURGLAR-ALARM SYSTEMS UL639 STANDARD FOR INTRUSION-DETECTION UNITS
   UL1076 PROPRIETARY BURGLAR ALARM UNITS AND SYSTEMS
   UL2044 STANDARD FOR COMMERCIAL CLOSED-CIRCUIT TELEVISION EQUIPMENT
   UL2802 STANDARD FOR PERFORMANCE TESTING OF CAMERA IMAGE QUALITY
5. REFER TO COMMUNICATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 110 VAC INPUT POWER FOR POWER SUPPLIES. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE EQUIPMENT NECESSARY FOR SECURITY HARDWARE OPERATION.
7. ALL SECURITY INFRASTRUCTURE SHALL BE INSTALLED IN ENCLOSED METALLIC PATHWAYS SUCH AS CONDUIT, ENCLOSED CABLE TRAY, AND ENCLOSED WIREWAYS TO THE ASSOCIATED SECURITY PANEL.
8. ALL ENCLOSURES AND INTRUSION DETECTION DEVICES WITH REMOVABLE COVERS SHALL HAVE TAMPER PROTECTION DEVICES CAPABLE OF BEING MONITORED CONTINUOUSLY.
9. WHERE APPLICABLE, COORDINATE WITH ELEVATOR CONTRACTOR FOR SPECIAL CONDUCTORS IN THE TRAVEL CABLE FOR ACCESS CONTROL, INTRUSION DETECTION, AND VIDEO SURVEILLANCE DEVICES.
10. ALL SECURITY CABLES SHALL BE FROM THE SAME MANUFACTURER AND LISTED FOR THE ENVIRONMENT THEY ARE INSTALLED. FOLLOW ALL MANUFACTURER INSTRUCTION FOR VOLTAGE DROP AND DISTANCE. REFER TO SPECIFICATIONS FOR CABLE TYPES.
11. JUNCTION BOXES FOR SECURITY CABLING SHALL HAVE TAMPER-PROOF SCREWS.
12. REFER TO THE SECURITY ONE-LINE DIAGRAMS AND DOOR ELEVATION DRAWINGS FOR ADDITIONAL GENERAL NOTES.
13. SECURITY EQUIPMENT SCHEDULES ARE PROVIDED AS A GUIDE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DEVICES IDENTIFIED AND PROVIDE THE APPROPRIATE NUMBER OF DEVICES AS IDENTIFIED ON THE FLOOR PLANS.
14. THE CONTRACTOR SHALL PROVIDE CAMERA LICENSES FOR EACH NEW INSTALLED CAMERA.
15. THE CONTRACTOR IS RESPONSIBLE FOR INITIAL CAMERA AIMING, CAMERA PROGRAMING, AND FINAL CHECKOUT WITH THE OWNER AND OWNER'S REPRESENTATIVE.
16. WHERE ADVANCED SECURITY SYSTEM INTEGRATION IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION ACTIVITIES BETWEEN THE ASSOCIATED SYSTEM PROVIDERS TO THE SATISFACTION OF THE OWNER AND OWNER'S REPRESENTATIVE.

CAMERA MOUNTING SYMBOLS

SYMBOL	EXAMPLE	DESCRIPTION
	1F	CAMERA WALL MOUNT
	1F	CAMERA CORNER MOUNT
OR	1F	CAMERA POLE MOUNT
	1F	CAMERA PARAPET/TELESCOPIC MOUNT
	1F	CAMERA CEILING MOUNT (NO MOUNTING SYMBOL)

SECURITY SYMBOLS

SYMBOL	SECTION	DESCRIPTION
1F	282300	SINGLE SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
2F	282300	DUAL SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
1P	282300	SINGLE SENSOR PTZ IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
4F	282300	QUAD SENSOR FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
4F 180	282300	QUAD SENSOR 180 DEGREE FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
360 1F	282300	SINGLE SENSOR 360 DEGREE FIXED IP-CCTV SECURITY CAMERA. PROVIDE (1) UTP CABLE AND OUTLET.
IC	281523	INTERCOM DOOR STATION
IC	281523	INTERCOM DOOR STATION W/VIDEO
IM	281523	MASTER INTERCOM DOOR STATION
CR	281300	CARD READER
KP	281300	ARM/DISARM KEYPAD
EL	281300	ELECTRIC LOCK
ML	281300	MAGNETIC LOCK
DC	281300	DOOR CONTACT
RX	281300	REQUEST TO EXIT MOTION
RX	281300	REQUEST TO EXIT PUSH BUTTON
DB	281300	DURESS BUTTON
DR	281300	DOOR RELEASE STATION
LD	281300	LOCK DOWN BUTTON
MD	281300	MOTION DETECTOR
GB	281300	GLASS BREAK SENSOR
WL	281300	WIRELESS LOCK
WG	281300	WIRELESS LOCK GATEWAY

ABBREVIATIONS

A	AMPERES
ABO	ALTERNATIVE BID OPTIONS
AC	ABOVE COUNTER
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AVOIP	AUDIO VISUAL OVER INTERNET PROTOCOL
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BKBD	BACKBOARD
BLDG	BUILDING
BOTT	BOTTOM
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CLG	CEILING
CLST	CLOSET
CO	COMMUNICATIONS OUTLET
COAX	COAXIAL
COMM	COMMUNICATIONS
CT	CABLE TRAY
CU	COPPER
C/B	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMERS
Δ	DELTA
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DP	DEEP OR DEPTH
DPDT	DOUBLE POLE DOUBLE THROW
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EES	EARTH ELECTRODE SYSTEM
EF	ENTRANCE FACILITY
ELEC	ELECTRIC, ELECTRICAL
EMT	ELECTRIC METALLIC TUBING
EQUIP	EQUIPMENT
ER	EQUIPMENT ROOM
ESS	ELECTRONIC SAFETY & SECURITY
EXIST	EXISTING
FT	FEET
GND	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
HH	HANDHOLE
IAW	IN ACCORDANCE WITH
IBC	INTERNATIONAL BUILDING CODE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
JB	JUNCTION BOX
KVA	KILOVOLT - AMPERES
KW	KILOWATTS
LAN	LOCAL AREA NETWORK
MAX	MAXIMUM
MC	MAIN CROSS-CONNECT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MER	MAIN EQUIPMENT ROOM
MH	MAINTENANCE HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MM	MULTIMODE FIBER
MNS	MASS NOTIFICATION SYSTEM
MON	MONITOR
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT CIRCUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFC	OPTIC FIBER CABLE
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OICF	OWNER INSTALLED CONTRACTOR FURNISHED
OM3	LASER OPTIMIZED MULTIMODE, CLASS 3
OS	OCCUPANCY SENSOR
OSP	OUTSIDE PLANT
PB	PULL BOX
PBB	PRIMARY BUS BAR
PET	PROTECTED ENTRANCE TERMINAL
PR	PAIR
PT	POKE THRU
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	RECESSED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RU	RACK UNIT
SBB	SECONDARY BUS BAR
SCR	SHORT CIRCUIT RATING
SCTP	SCREENED TWISTED PAIR
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
STD	STANDARD
SURF	SURFACE
TBD	TO BE DETERMINED
TEL	TELEPHONE
TER	TELECOMMUNICATIONS EQUIP. ROOM
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
U/G	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNIV	UNIVERSAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VIF	VERIFY IN FIELD
VOIP	VOICE OVER INTERNET PROTOCOL
VSS	VIDEO SURVEILLANCE SYSTEM
W	WATTS
W/	WITH
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WPG	WEATHERPROOF WITH GROUND
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE
3R	NEMA 3R ENCLOSURE
4X	NEMA 4X ENCLOSURE

EMBOSS
EmbossDesign.com (859)431-8612
906 Monmouth Street, Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

TECHNOLOGY NOTES

21-052

T-003

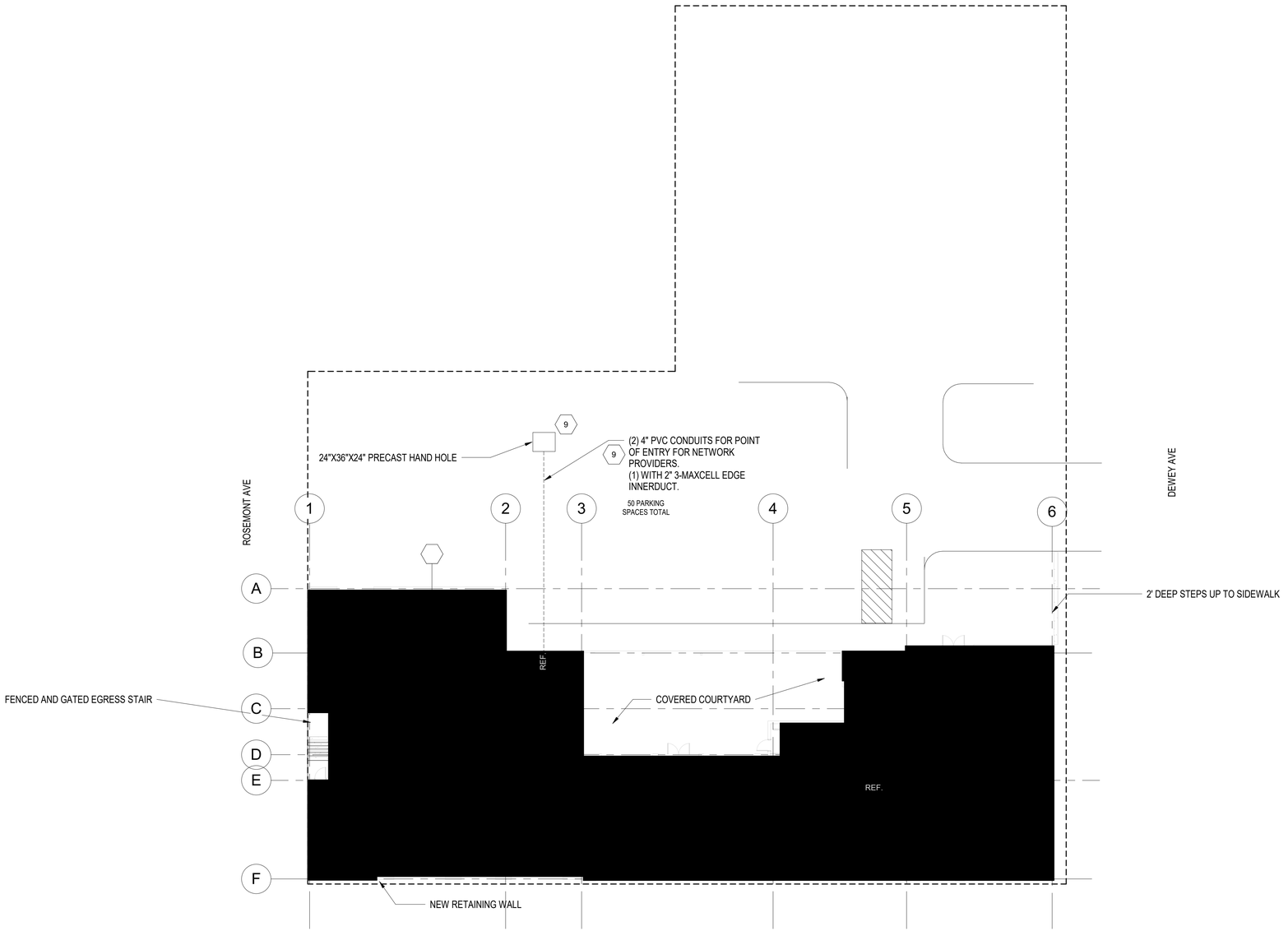
PRINT DATE: 1/8/2024 10:07:32 AM

GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES

KEYED NOTES

9 BY ELECTRICAL.



1 **TECHNOLOGY SITE PLAN**
1/16" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

TECHNOLOGY SITE PLAN

21-052

T-010

PRINT DATE: 1/8/2024 10:07:32 AM

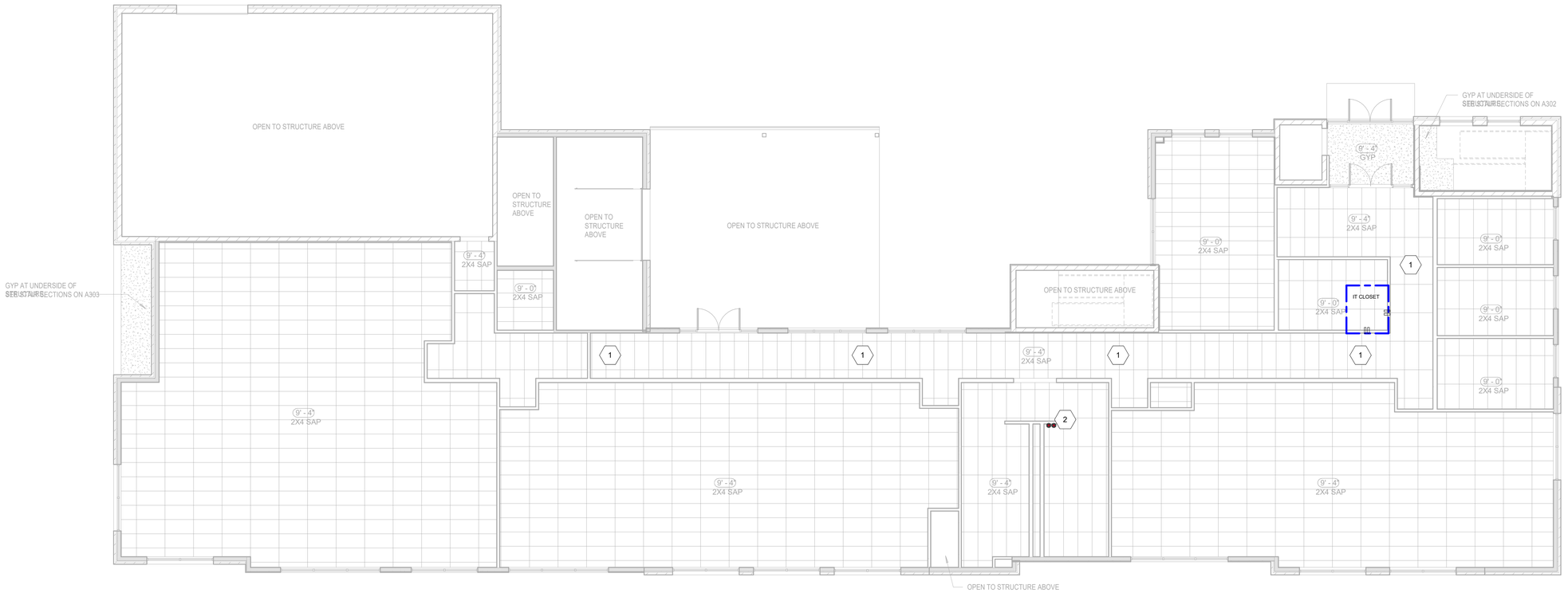
GENERAL SHEET NOTES

A	REFER TO SHEET T-002 FOR ALL GENERAL NOTES
B	COORDINATE ALL PATHWAYS WITH OTHER TRADES

KEYED NOTES

1 J-HOOK TREE SUPPORT CABLES 5' ON CENTER.

2 FLOOR PENETRATIONS TO 2ND FLOOR MECHANICAL ROOM.



1 **FIRST FLOOR CABLE PATHWAY PLAN**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

FIRST FLOOR CABLE PATHWAY PLAN

21-052

T-011

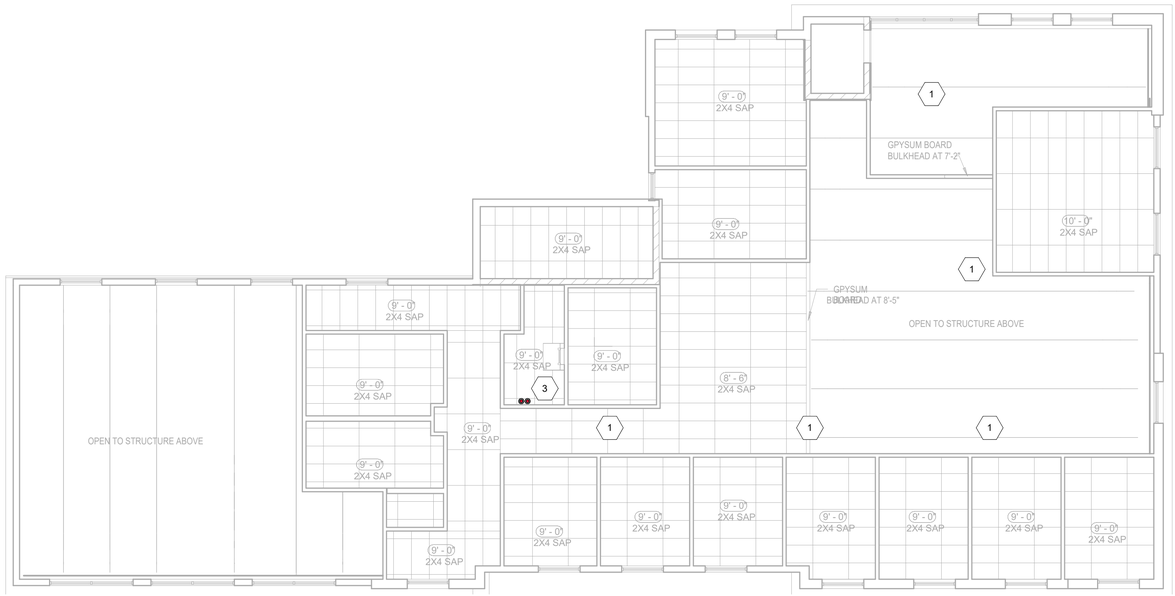
PRINT DATE: 1/8/2024 10:07:33 AM

GENERAL SHEET NOTES

A	REFER TO SHEET T-002 FOR ALL GENERAL NOTES
B	COORDINATE ALL PATHWAYS WITH OTHER TRADES

KEYED NOTES

1	J-HOOK TREE SUPPORT CABLES 5' ON CENTER.
3	FLOOR PENETRATIONS TO 1ST FLOOR.



1 **SECOND FLOOR CABLE PATHWAY PLAN**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

SECOND FLOOR CABLE PATHWAY PLAN

21-052

T-012

PRINT DATE: 1/8/2024 10:07:33 AM

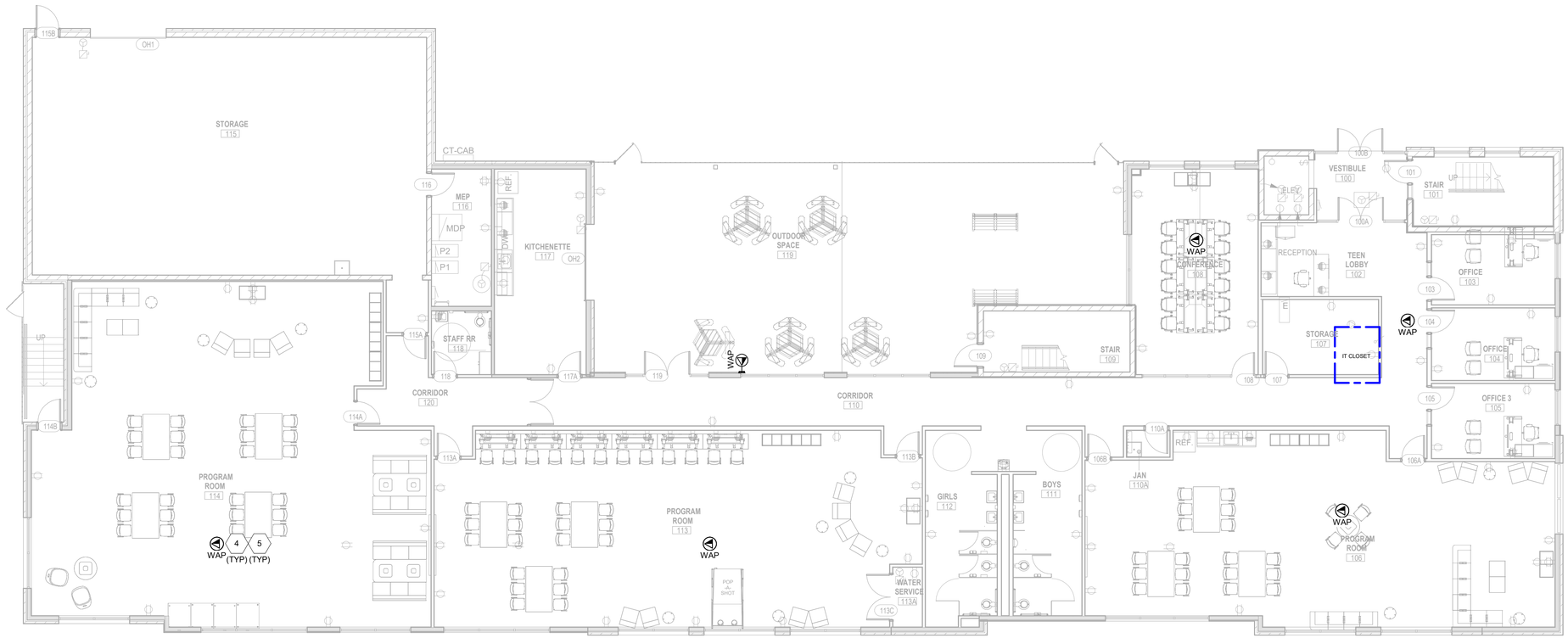
GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES

KEYED NOTES

4 LEAVE 15' COIL AT EACH WAP.

5 WAP SUPPLIED BY OWNER INSTALLED BY TECHNOLOGY CONTRACTOR.



1 **TECHNOLOGY WIRELESS FIRST FLOOR PLAN**
1/8" = 1'-0"

EMBOSS
EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

TECHNOLOGY WIRELESS FIRST FLOOR PLAN

21-052

T-101

PRINT DATE: 1/8/2024 10:07:34 AM

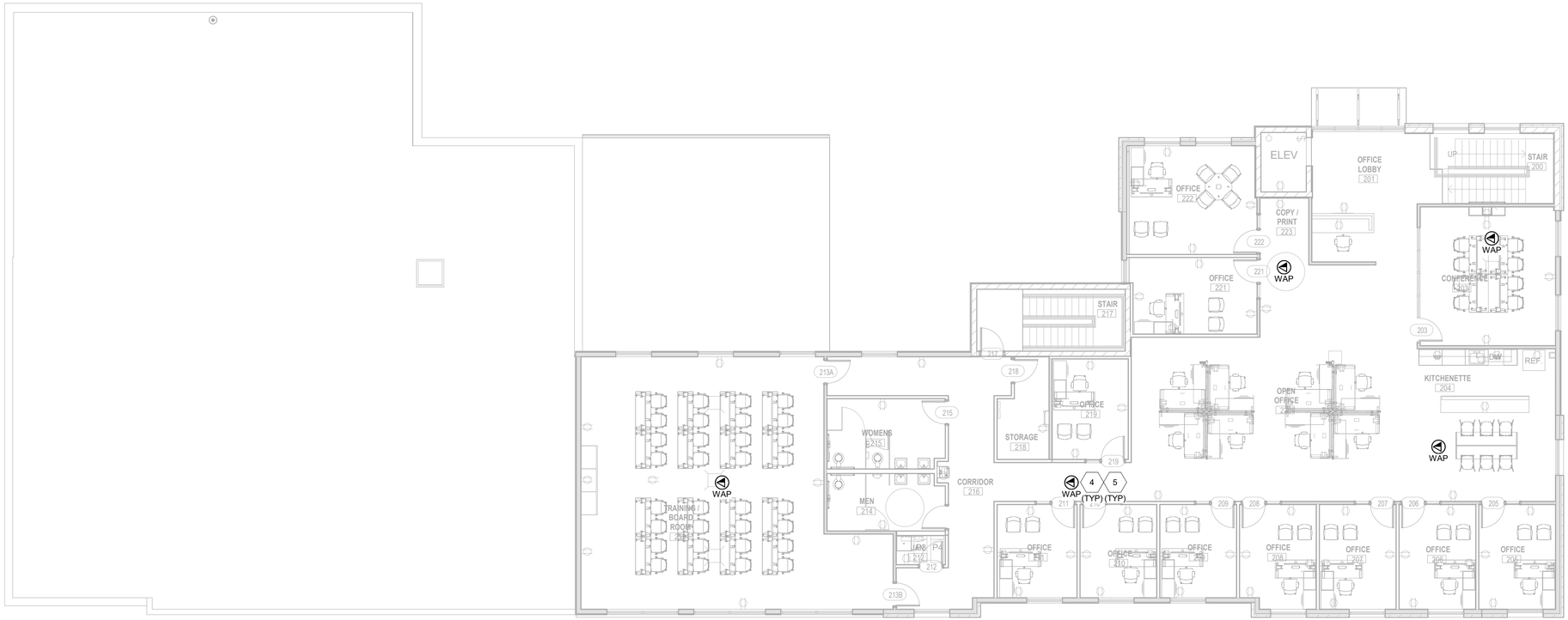
GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES

KEYED NOTES

4 LEAVE 15' COIL AT EACH WAP.

5 WAP SUPPLIED BY OWNER INSTALLED BY TECHNOLOGY CONTRACTOR.



1 **TECHNOLOGY WIRELESS SECOND FLOOR**
1/8" = 1'-0"

EMBOSS
EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

TECHNOLOGY WIRELESS SECOND FLOOR PLAN

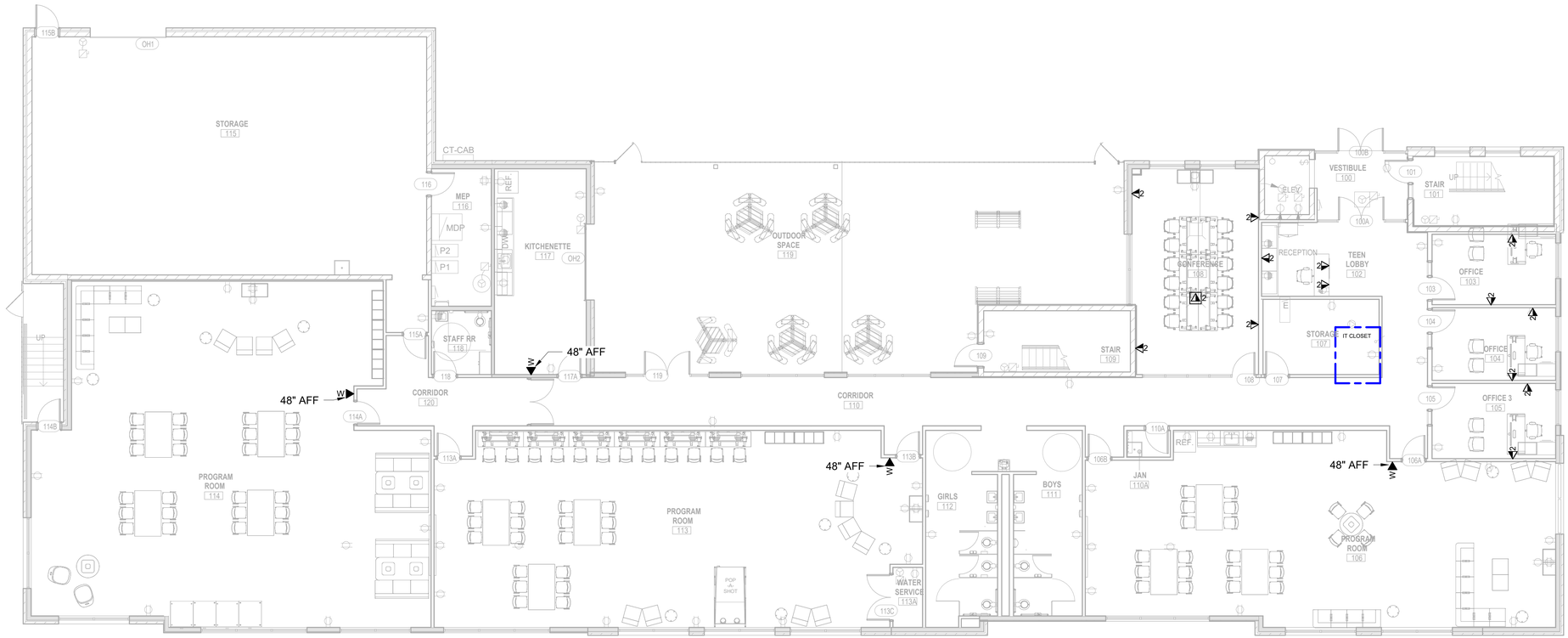
21-052

T-102

PRINT DATE: 1/8/2024 10:07:35 AM

GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES



1 **COMMUNICATIONS NETWORK FIRST FLOOR PLAN**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

COMMUNICATIONS NETWORK FIRST FLOOR PLAN

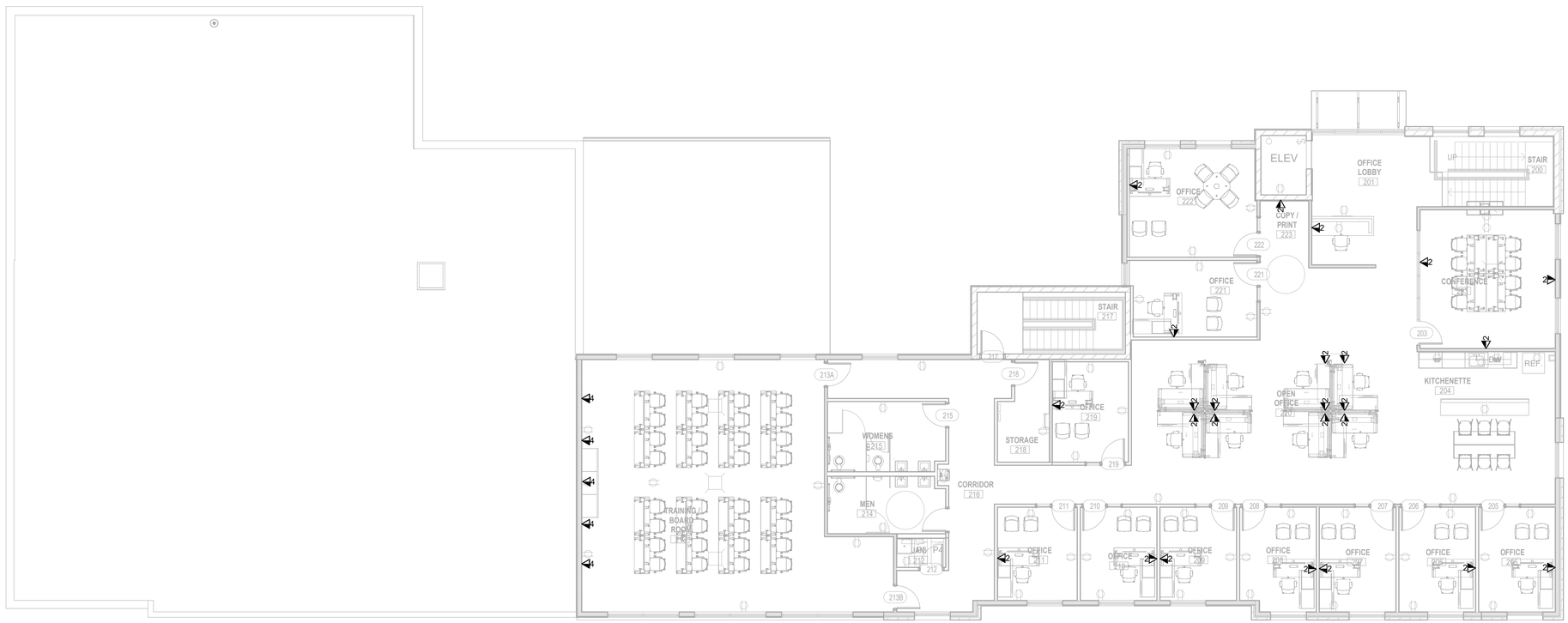
21-052

T-103

PRINT DATE: 1/8/2024 10:07:35 AM

GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES



1 **COMMUNICATIONS NETWORK SECOND FLOOR PLAN**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

COMMUNICATIONS NETWORK SECOND FLOOR PLAN

21-052

T-104

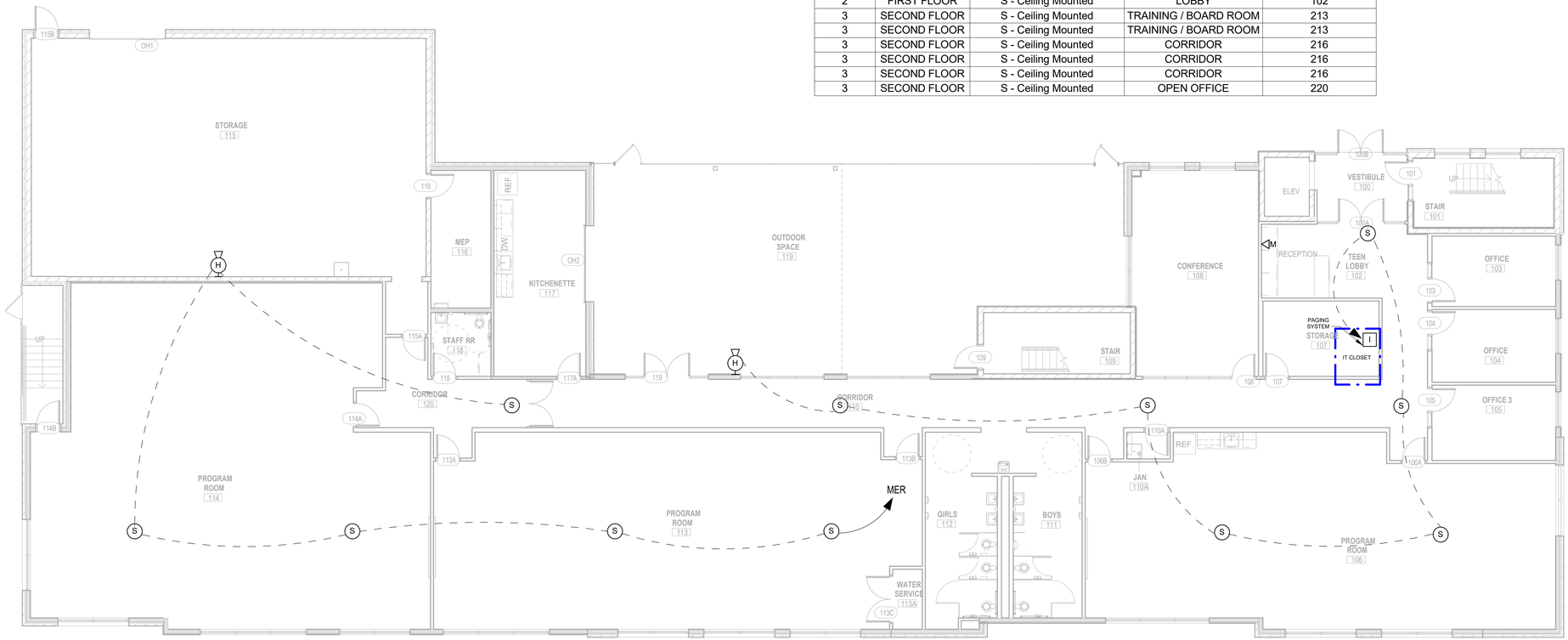
PRINT DATE: 1/8/2024 10:07:36 AM

GENERAL SHEET NOTES

A	REFER TO SHEET T-002 FOR ALL GENERAL NOTES
B	COORDINATE SPEAKERS WITH LIGHTING AND MECHANICAL
C	SUPPORT ALL CABLES 5' ON CENTER. (NOT WITH DATA CABLING.)

MER 107 RACK AUDIO SCHEDULE

CIRCUIT NUMBER	LEVEL	TYPE	ROOM NAME	ROOM NUMBER
1	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
1	FIRST FLOOR	H - Horn Wall Mounted	GARAGE	115
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	114
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	114
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	113
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	113
2	FIRST FLOOR	H - Horn Wall Mounted	OUTDOOR SPACE	119
2	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
2	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
2	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	106
2	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	106
2	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
2	FIRST FLOOR	S - Ceiling Mounted	LOBBY	102
3	SECOND FLOOR	S - Ceiling Mounted	TRAINING / BOARD ROOM	213
3	SECOND FLOOR	S - Ceiling Mounted	TRAINING / BOARD ROOM	213
3	SECOND FLOOR	S - Ceiling Mounted	CORRIDOR	216
3	SECOND FLOOR	S - Ceiling Mounted	CORRIDOR	216
3	SECOND FLOOR	S - Ceiling Mounted	CORRIDOR	216
3	SECOND FLOOR	S - Ceiling Mounted	OPEN OFFICE	220



1 **PAGING SYSTEM FIRST FLOOR PLAN**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

PAGING SYSTEM FIRST FLOOR PLAN

21-052

T-105

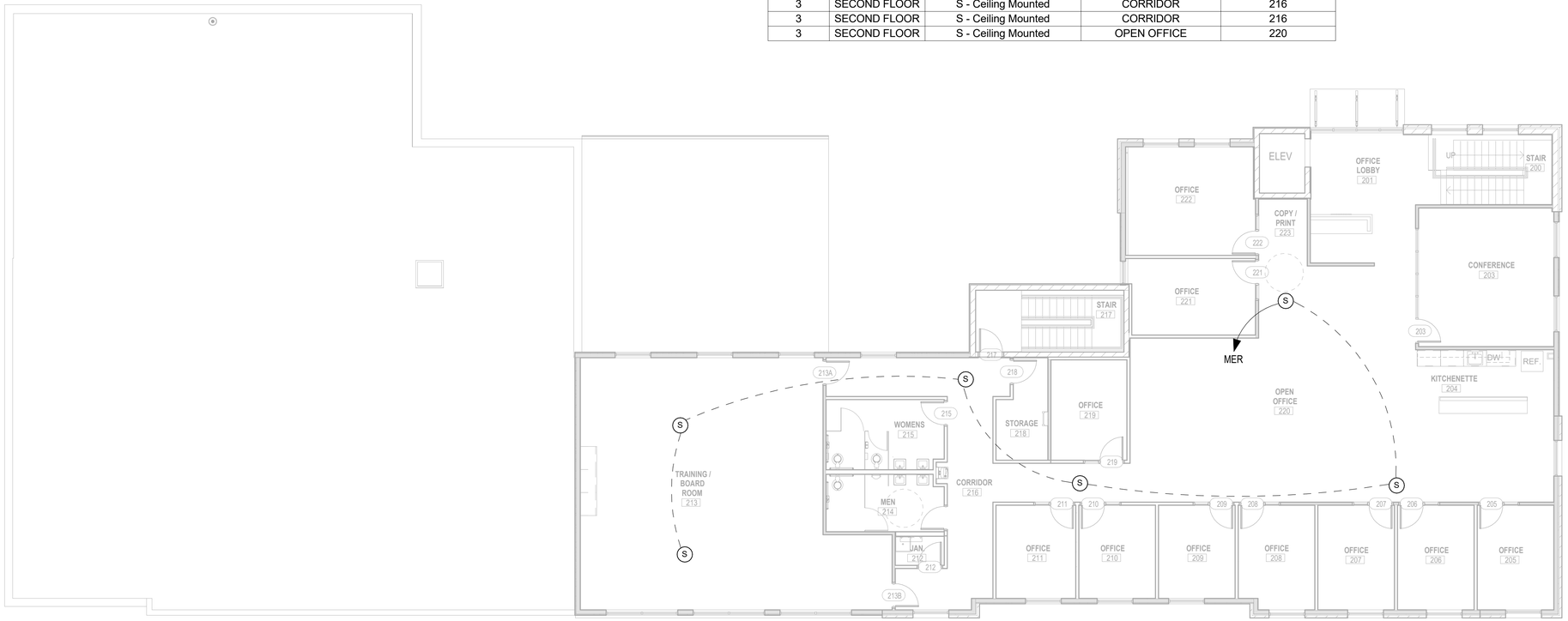
PRINT DATE: 1/8/2024 10:07:36 AM

GENERAL SHEET NOTES

A	REFER TO SHEET T-002 FOR ALL GENERAL NOTES
B	COORDINATE SPEAKERS WITH LIGHTING AND MECHANICAL
C	SUPPORT ALL CABLES 5' ON CENTER. (NOT WITH DATA CABLING.)

MER 107 RACK AUDIO SCHEDULE

CIRCUIT NUMBER	LEVEL	TYPE	ROOM NAME	ROOM NUMBER
1	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
1	FIRST FLOOR	H - Horn Wall Mounted	GARAGE	115
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	114
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	114
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	113
1	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	113
2	FIRST FLOOR	H - Horn Wall Mounted	OUTDOOR SPACE	119
2	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
2	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
2	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	106
2	FIRST FLOOR	S - Ceiling Mounted	PROGRAM ROOM	106
2	FIRST FLOOR	S - Ceiling Mounted	CORRIDOR	110
2	FIRST FLOOR	S - Ceiling Mounted	LOBBY	102
3	SECOND FLOOR	S - Ceiling Mounted	TRAINING / BOARD ROOM	213
3	SECOND FLOOR	S - Ceiling Mounted	TRAINING / BOARD ROOM	213
3	SECOND FLOOR	S - Ceiling Mounted	CORRIDOR	216
3	SECOND FLOOR	S - Ceiling Mounted	CORRIDOR	216
3	SECOND FLOOR	S - Ceiling Mounted	CORRIDOR	216
3	SECOND FLOOR	S - Ceiling Mounted	OPEN OFFICE	220



1 **PAGING SYSTEM SECOND FLOOR PLAN**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

RECISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

PAGING SYSTEM
SECOND FLOOR PLAN

21-052

T-106

PRINT DATE: 1/8/2024 10:07:37 AM

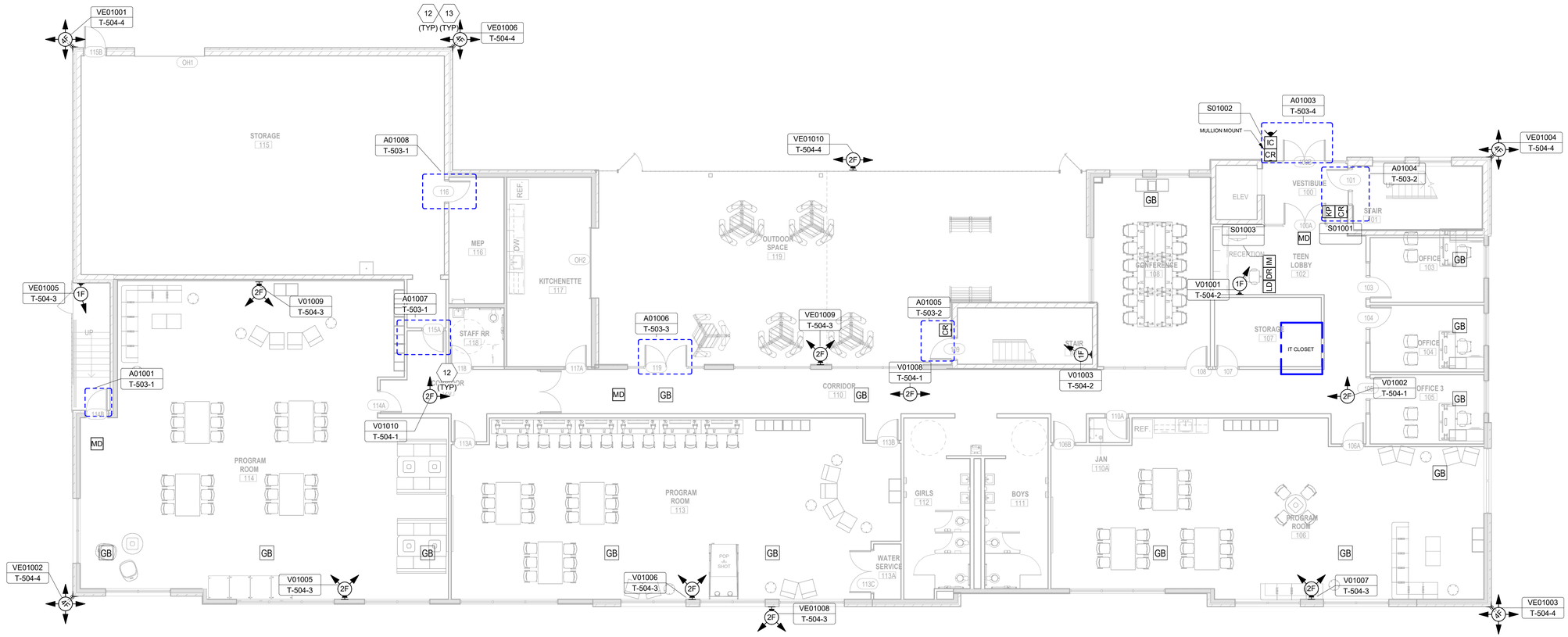
GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES

KEYED NOTES

12 CAT 6. PLENUM CABLE BACK TO MER.

13 SUPPLY ONE CAT 6. ETHERNET INDOOR SURGE PROTECTOR.



1 **SECURITY FIRST FLOOR PLAN**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

SECURITY FIRST FLOOR PLAN

21-052

T-107

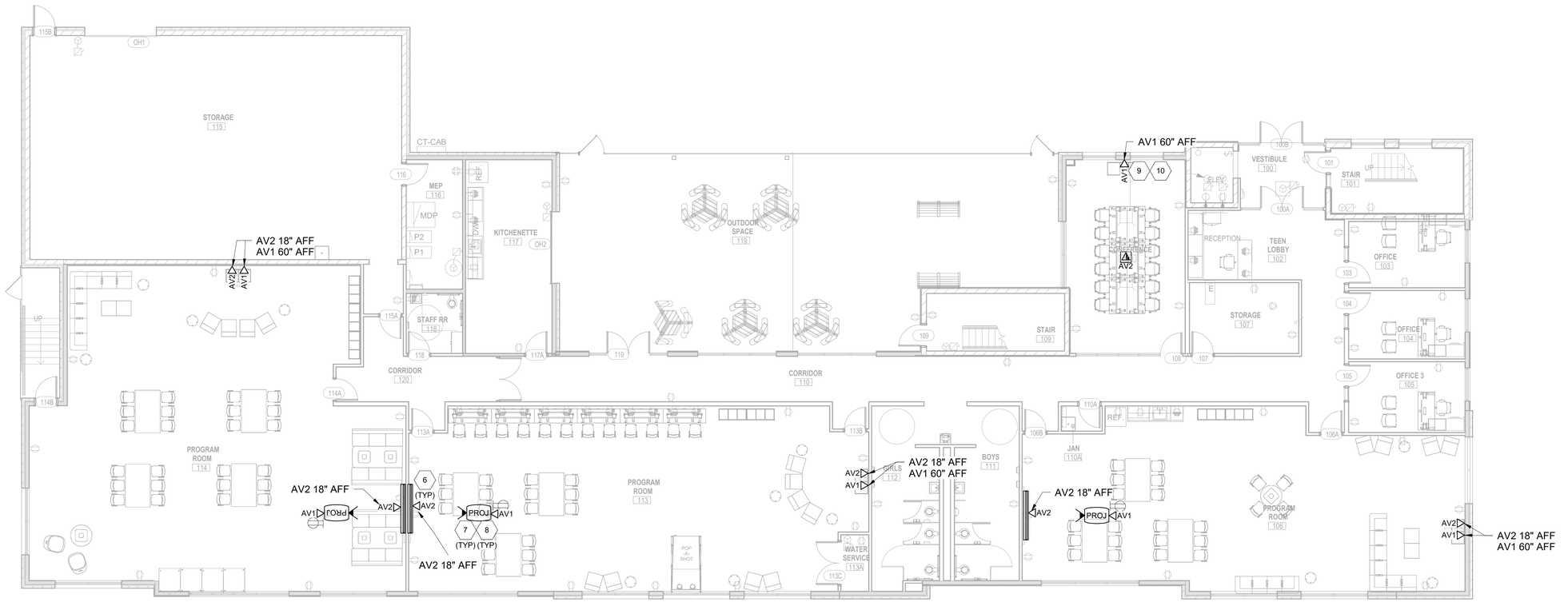
PRINT DATE: 1/8/2024 10:07:37 AM

GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES

KEYED NOTES

6	PROJECTOR SCREEN BY TECHNOLOGY CONTRACTOR INSTALLED BY TECHNOLOGY CONTRACTOR.
7	PROJECTOR BY OWNER INTSALLED BY TECHNOLOGY CONTRACTOR.
8	CONTRACTOR TO PROVIDE CHIEF CMA440 SUSPENDED CEILING KIT.
9	BY ELECTRICAL.
10	70" LCD MONITOR



1 **AV FIRST FLOOR**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

BICSI Christy A Miller BICSI ID # 109630 Expires 12-31-24 — Registered Communications Distribution Designer RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

A/V FIRST FLOOR PLAN

21-052

T-108

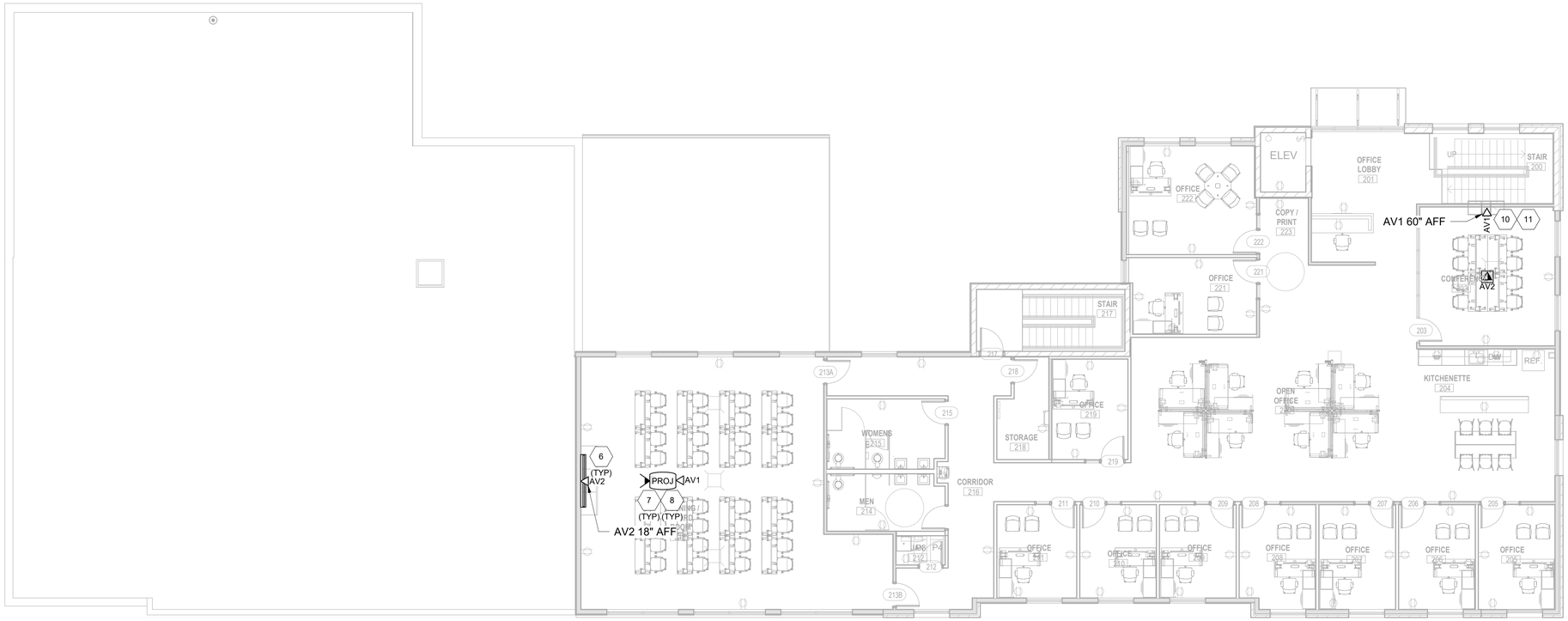
PRINT DATE: 1/8/2024 10:07:38 AM

GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES

KEYED NOTES

6	PROJECTOR SCREEN BY TECHNOLOGY CONTRACTOR INSTALLED BY TECHNOLOGY CONTRACTOR.
7	PROJECTOR BY OWNER INTSALLED BY TECHNOLOGY CONTRACTOR.
8	CONTRACTOR TO PROVIDE CHIEF CMA440 SUSPENDED CEILING KIT.
10	70" LCD MONITOR
11	OWL LABS, OWL BAR, AND OWL 3 CONFERENCE ROOM SYSTEM.



1 **A/V SECOND FLOOR**
1/8" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

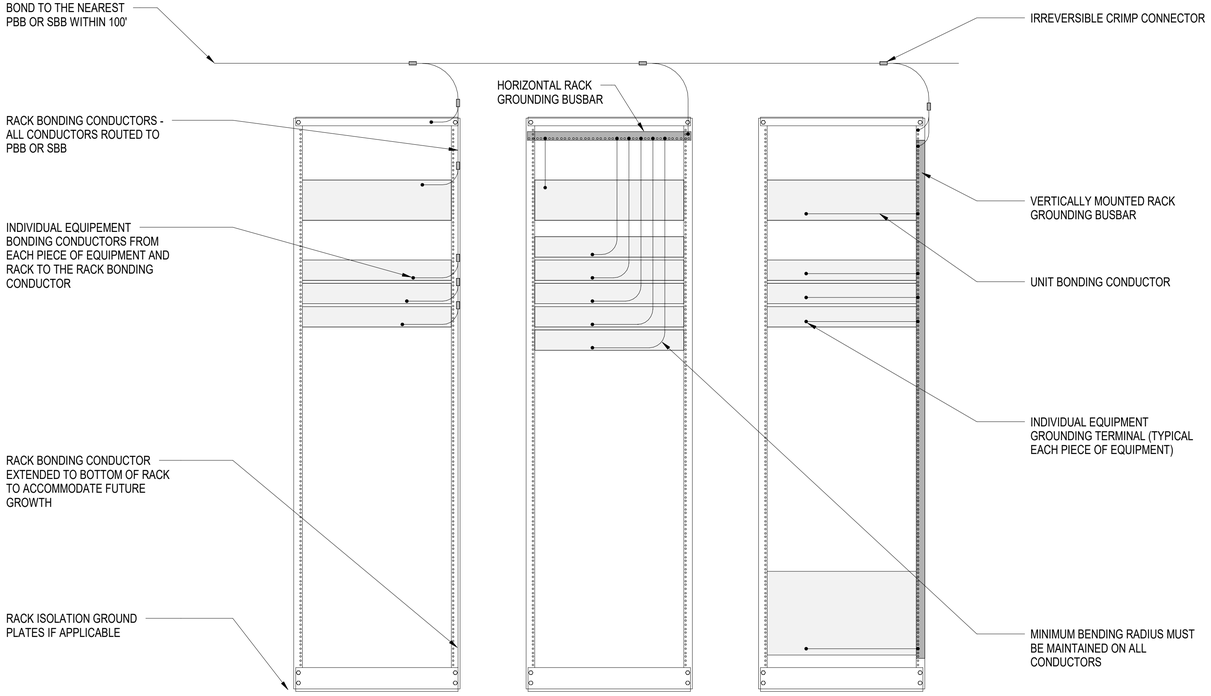
NO.	DESCRIPTION	DATE

A/V SECOND FLOOR PLAN

21-052

T-109

PRINT DATE: 1/8/2024 10:07:39 AM



EXAMPLE "A"

EACH ADDITIONAL UNIT BONDING CONDUCTOR REQUIRES AN IRREVERISBLE CRIMP CONNECTOR GOING BACK TO THE PBB OR SBB.

EXAMPLE "B"

EACH UNIT BONDING CONDUCTOR IS INDIVIDUALLY CONNECTED TO THE HORIZONTAL RACK GROUND BUSBAR. FROM THE BUSBAR TO PBB OR SBB A IRREVERSIBLE CRIMP CONNECTOR IS REQUIRED.

EXAMPLE "C"

EACH UNIT BONDING CONDUCTOR IS INDIVIDUALLY CONNECTED TO THE VERTICAL RACK GROUND BUSBAR. FROM THE BUSBAR TO PBB OR SBB A IRREVERSIBLE CRIMP CONNECTOR IS REQUIRED.

NOTES:

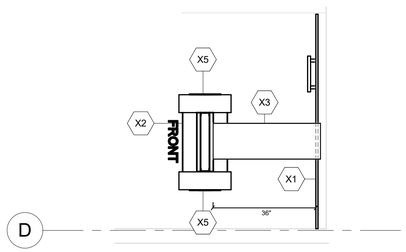
1. ALL CONNECTIONS TO BUSBARS SHALL BE 2-HOLE LONG BARREL TERMINAL LUGS (IRREVERSIBLE COMPRESSION TYPE CENNECTORS)
2. PBB OR SBB CAN BE ONE OF THREE OPTIONAL CONNECTIONS
   A. SUB-PANEL
   B. BUILDING STEEL(HAS TO BE CONTINUOUS OR TESTED AND VALIDATED THAT IT GOES TO GROUND)
   C. TELECOMMUNICATION BACK BONE (TBB)

1 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM
NTS

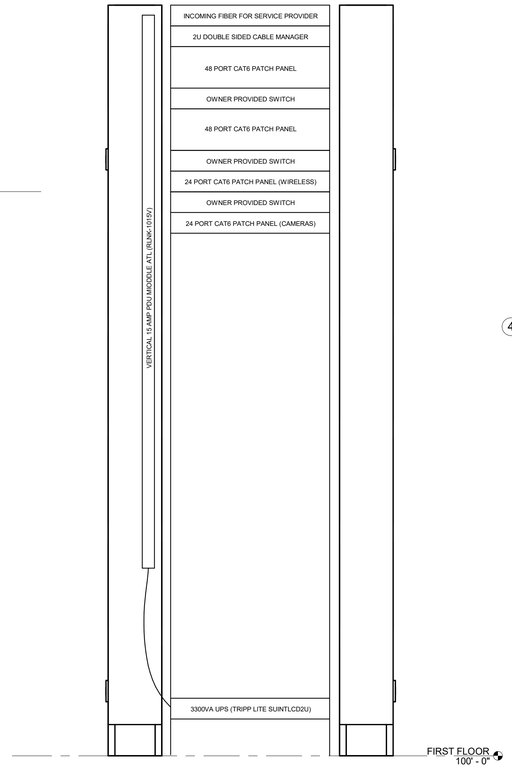
Technology Responsibility Matrix

Prepared by BCL Enterprise
Martiin Crabill

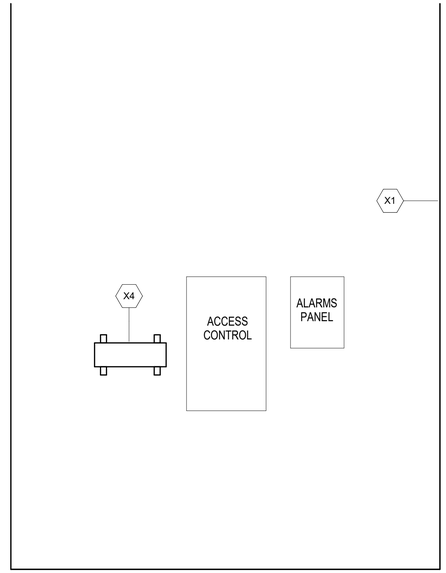
	Electrical	Security Cotrator	AV Technology Cotrator	Structured Cabling Contrator	Owner	General Contractor
Colors Legend						
Security (Access Control, Video Surveillance, Intrusion Detection)* Systems						
Installation & Implementation						
Equipment		●				
Electronic Door Hardware						○
Cabling		●				
Cable Support System		●				
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Programoing and Configuration		●				
Audio Visual Systems						
Installation & Implementation						
Equipment					●	
Cabling			●			
Cable Support System			●			
Control System Programming			●			
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Technology: Structured Cabling						
Installation & Implementation						
Hardware (Equipment Racks, Cable, Connectivity)				●		
Cabling				●		
Cable Support System				●		
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Active Networking Equipment (Switches, WAPs)					●	
Installastion of Networking Equipment (Switches, WAPs)				●		
Public Address (PA) Audio Reinforcement						
Installation & Implementation						
Equipment			●			
Cabling			●			
Cable Support System			●			
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Programing and Configuration			●			



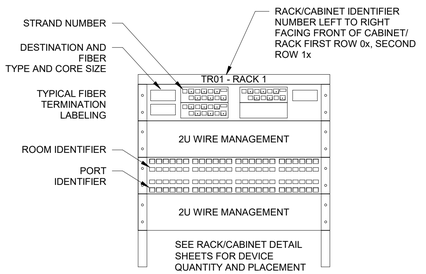
2 STORAGE ROOM 107 MER
1/2" = 1'-0"



3 TECH 203A 2-POST EQUIPMENT RACK
1 1/2" = 1'-0"



4 SECURITY BACKBOARD ELEVATION
1" = 1'-0"



5 ER / TR EQUIPMENT LABELING
NOT TO SCALE

GENERAL SHEET NOTES

A REFER TO SHEET T-002 FOR ALL GENERAL NOTES

KEYED NOTES

X1	4X4X8 SHEET OF PLYWOOD.
X2	2 POST EQUIPMENT RACK 36" OFF BACK WALL.
X3	12"x36" LADDER RACK.
X4	TELECOMUNICATIONS BUSBAR.
X5	6" VERTICAL DOUBLE SIDED CABLE MANAGER.

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

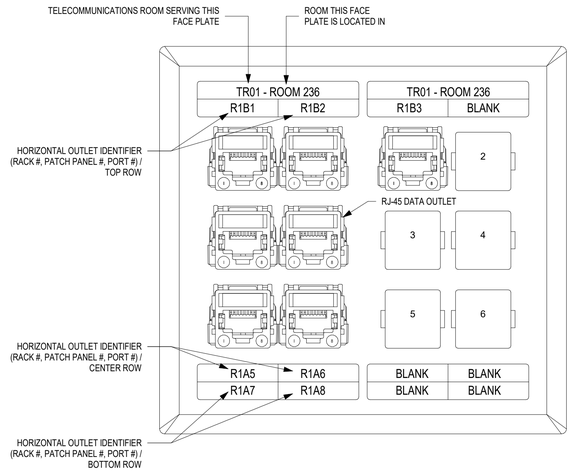
NO.	DESCRIPTION	DATE

TECHNOLOGY ROOM AND GROUNDING

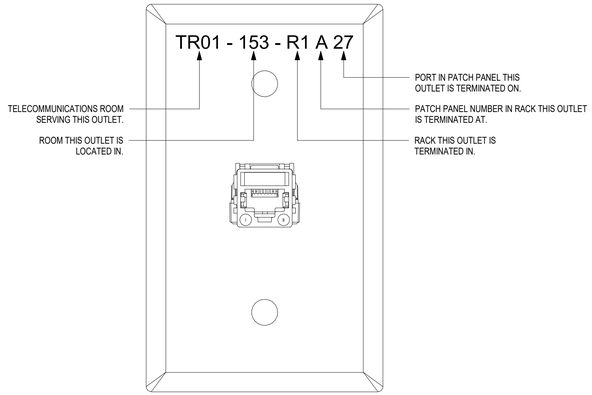
21-052

T-501

PRINT DATE: 1/8/2024 10:07:39 AM

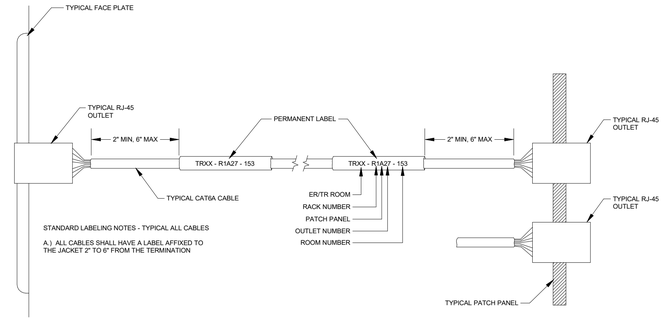


VOICE/DATA OUTLET LABELING

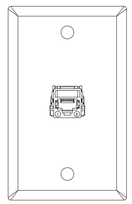


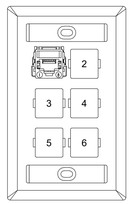
WALL PHONE OUTLET LABELING

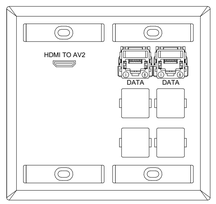
1 **FACEPLATE LABELING DETAIL**
NTS

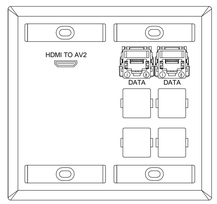


2 **TYPICAL CABLE LABELING AT OUTLET AND PATCH PANEL**
NTS







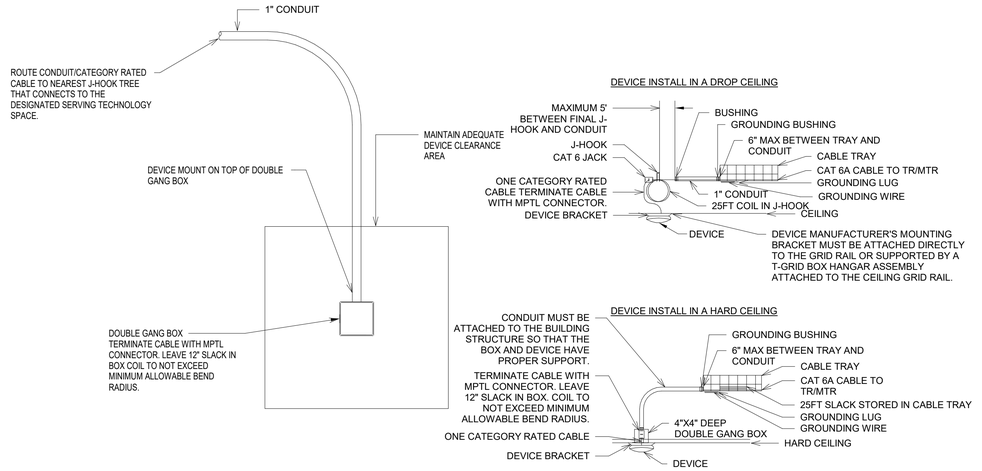


3 **WP WALL PHONE OUTLET DETAIL**
NTS

4 **DATA OUTLET DETAIL**
NTS

5 **AV1 DATA A/V OUTLET DETAIL**
NTS

6 **AV2 DATA A/V OUTLET DETAIL**
NTS



7 **NETWORK DEVICE INSTALLATION DETAIL (E.G., CAMERA, WAP, VAPE DETECTOR, MISC SENSOR)**
NTS

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

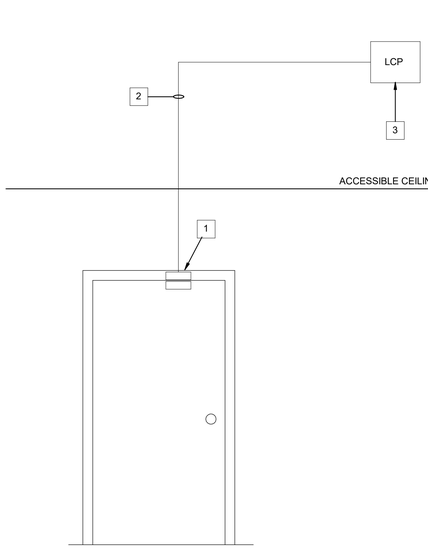
NO.	DESCRIPTION	DATE

TECHNOLOGY DETAILS (FACE PLATES)

21-052

T-502

PRINT DATE: 1/8/2024 10:07:40 AM



NOTE:

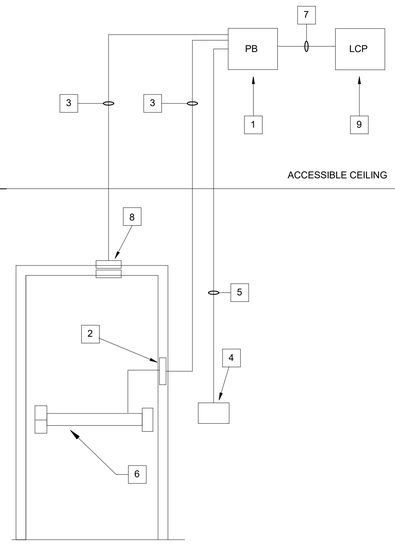
1 PROVIDE DOOR POSITION SWITCH IN DOOR FRAME OR HATCH.

NOTE: INSTALLATIONS ON DOORS WITH CONCRETE FILLED HEADERS WILL REQUIRE A SEPARATE PENETRATION (FROM THE DOOR LOCK) FOR THE DOOR SWITCH.

2 PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. PROVIDE CONDUIT WHEREVER CABLING MUST BE ROUTED ABOVE AN INACCESSIBLE CEILING OR UNSECURE PATHWAY.

3 LOCAL CONTROL PANEL LOCATED IN TELECOMMUNICATIONS ROOM.

1 SECURITY SINGLE DOOR WITH DOOR CONTACT DETAIL
NTS



NOTE:

1 PROVIDE THE JUNCTION BOX ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING AND IN A LOCATION THAT PROVIDES EASY ACCESS FOR CONNECTING AND SERVICE.

2 SECURITRON EPT POWER TRANSFER DEVICE (OR ENGINEERED APPROVED EQUAL).

3 PROVIDE 1" CONDUIT INTO JUNCTION BOX.

4 PROVIDE 4" X 4" X 2 1/8 " DEEP OUTLET BOX WITH SINGLE GANG PLASTER RING "FLUSH" WITH OUTSIDE WALL SURFACE FOR CARD READER, LOCATED ON PUBLIC SIDE OF DOOR. VERIFY ACTUAL BACKBOX REQUIREMENT WITH ACCESS CONTROL CONTRACTOR.

5 PROVIDE 1" CONDUIT INTO JUNCTION BOX.

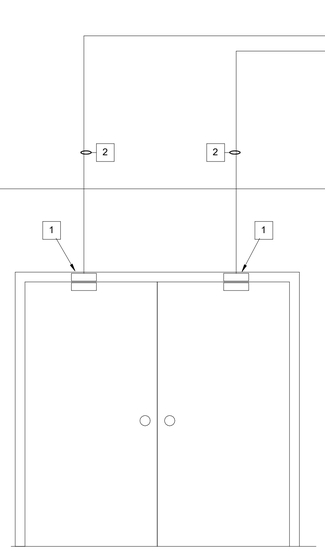
6 ELECTRICALLY HELD PANIC HARDWARE BY OTHERS. (REFER TO FLOOR PLANS FOR DELAYED EGRESS)

7 PROVIDE 1-1/4" CONDUIT WHEREVER CABLING MUST BE ROUTED ABOVE AN INACCESSIBLE CEILING OR UNSECURE PATHWAY.

8 INSTALL DOOR POSITION SWITCH IN DOOR FRAME. NOTE: INSTALLATIONS ON DOORS WITH CONCRETE FILLED HEADERS WILL REQUIRE A SEPARATE PENETRATION (FROM THE DOOR LOCK) FOR THE DOOR SWITCH.

9 LOCAL CONTROL PANEL LOCATED IN TELECOMMUNICATIONS ROOM.

2 SECURITY SINGLE DOOR WITH CARD READER DETAIL
NTS



1 PROVIDE DOOR POSITION SWITCH IN DOOR FRAME. NOTE: INSTALLATIONS ON DOORS WITH CONCRETE FILLED HEADERS WILL REQUIRE A SEPARATE PENETRATION (FROM THE DOOR LOCK) FOR THE DOOR SWITCH.

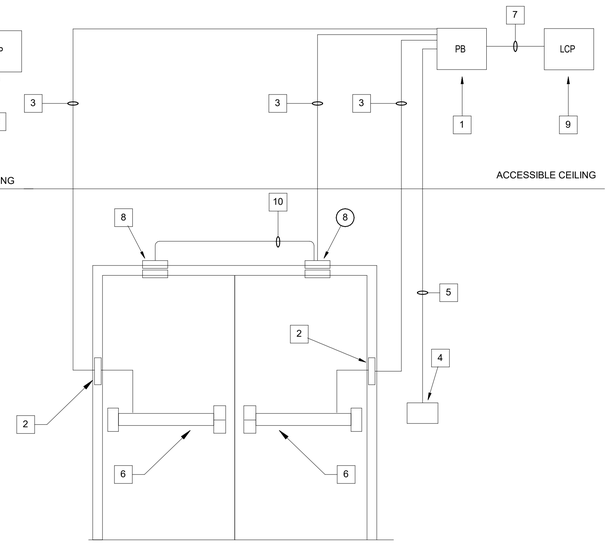
2 PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. PROVIDE CONDUIT WHEREVER CABLING MUST BE ROUTED ABOVE AN INACCESSIBLE CEILING OR UNSECURE PATHWAY.

3 LOCAL CONTROL PANEL LOCATED IN TELECOMMUNICATIONS ROOM.

4 PROVIDE THE JUNCTION BOX ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING AND IN A LOCATION THAT PROVIDES EASY ACCESS FOR CONNECTING AND SERVICE.

5 PROVIDE 1-1/4" CONDUIT WHEREVER CABLING MUST BE ROUTED ABOVE AN INACCESSIBLE CEILING OR UNSECURE PATHWAY.

3 SECURITY DOUBLE DOOR WITH DOOR CONTACT DETAIL
NTS



1 PROVIDE THE JUNCTION BOX ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING AND IN A LOCATION THAT PROVIDES EASY ACCESS FOR CONNECTING AND SERVICE.

2 SECURITRON EPT POWER TRANSFER DEVICE (OR ENGINEERED APPROVED EQUAL).

3 PROVIDE 1" CONDUIT INTO JUNCTION BOX.

4 PROVIDE 4" X 4" X 2 1/8 " DEEP OUTLET BOX WITH SINGLE GANG PLASTER RING "FLUSH" WITH OUTSIDE WALL SURFACE FOR CARD READER, LOCATED ON PUBLIC SIDE OF DOOR. VERIFY ACTUAL BACKBOX REQUIREMENT WITH ACCESS CONTROL CONTRACTOR.

5 PROVIDE 1" CONDUIT INTO JUNCTION BOX.

6 ELECTRICALLY HELD PANIC HARDWARE BY OTHERS. (REFER TO FLOOR PLANS FOR DELAYED EGRESS)

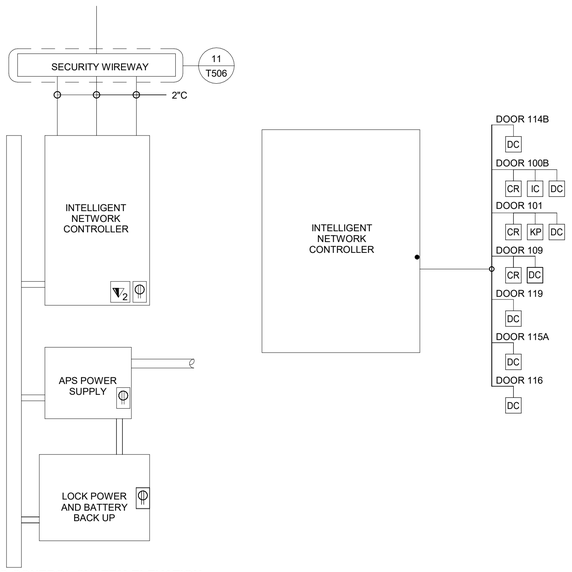
7 PROVIDE 1-1/4" CONDUIT WHEREVER CABLING MUST BE ROUTED ABOVE AN INACCESSIBLE CEILING OR UNSECURE PATHWAY.

8 INSTALL DOOR POSITION SWITCH IN DOOR FRAME. NOTE: INSTALLATIONS ON DOORS WITH CONCRETE FILLED HEADERS WILL REQUIRE A SEPARATE PENETRATION (FROM THE DOOR LOCK) FOR THE DOOR SWITCH.

9 LOCAL CONTROL PANEL LOCATED IN TELECOMMUNICATIONS ROOM.

10 PROVIDE A 3/4" CONDUIT.

4 SECURITY DOUBLE DOOR WITH CARD READER DETAIL
NTS

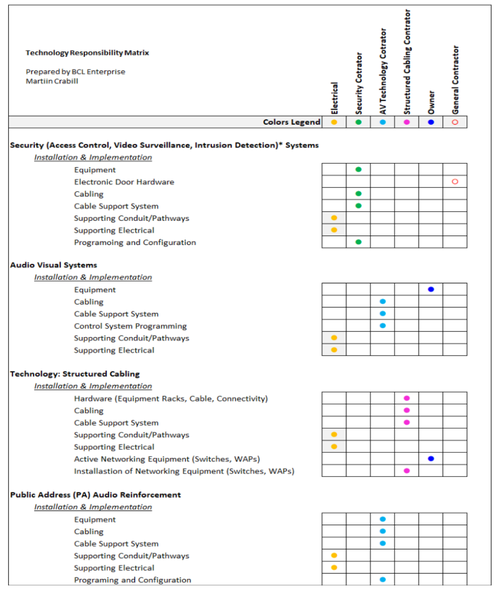


5 ACCESS CONTROL SYSTEM ELEVATION
12" = 1'-0"

SECURED DOOR SCHEDULE

DEVICE ID	DOOR NUMBER	Family	LEVEL	DETAIL REFERENCE	CR	IC	KP	DC
A01001	114B	Security Door Surround	FIRST FLOOR	T-503-1				X
A01003	100B	Security Door Surround	FIRST FLOOR	T-503-4	X	X		X
A01004	101	Security Door Surround	FIRST FLOOR	T-503-2	X		X	X
A01005	109	Security Door Surround	FIRST FLOOR	T-503-2	X			X
A01006	119	Security Door Surround	FIRST FLOOR	T-503-3				X
A01007	115A	Security Door Surround	FIRST FLOOR	T-503-1				X
A01008	116	Security Door Surround	FIRST FLOOR	T-503-1				X

Total: 7



Technology Responsibility Matrix

Prepared by BCL Enterprise
Martiin Crabill

	Electrical	Security Cotrator	AV Technology Cotrator	Structured Cabling Contrator	Owner	General Contractor
Colors Legend	●	●	●	●	●	○
Security (Access Control, Video Surveillance, Intrusion Detection)* Systems						
Installation & Implementation						
Equipment		●				
Electronic Door Hardware						○
Cabling		●				
Cable Support System		●				
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Programoing and Configuration		●				
Audio Visual Systems						
Installation & Implementation						
Equipment					●	
Cabling			●			
Cable Support System			●			
Control System Programming			●			
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Technology: Structured Cabling						
Installation & Implementation						
Hardware (Equipment Racks, Cable, Connectivity)				●		
Cabling				●		
Cable Support System				●		
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Active Networking Equipment (Switches, WAPs)					●	
Installastion of Networking Equipment (Switches, WAPs)				●		
Public Address (PA) Audio Reinforcement						
Installation & Implementation						
Equipment			●			
Cabling			●			
Cable Support System			●			
Supporting Conduit/Pathways	●					
Supporting Electrical	●					
Programing and Configuration			●			

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

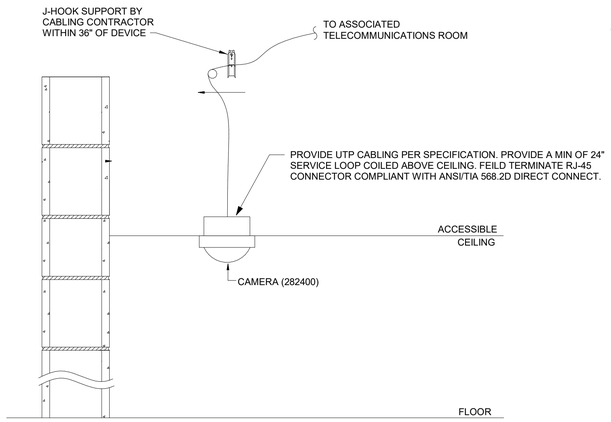
NO.	DESCRIPTION	DATE

TECHNOLOGY DETAILS (ACCESS CONTROL DOORS)

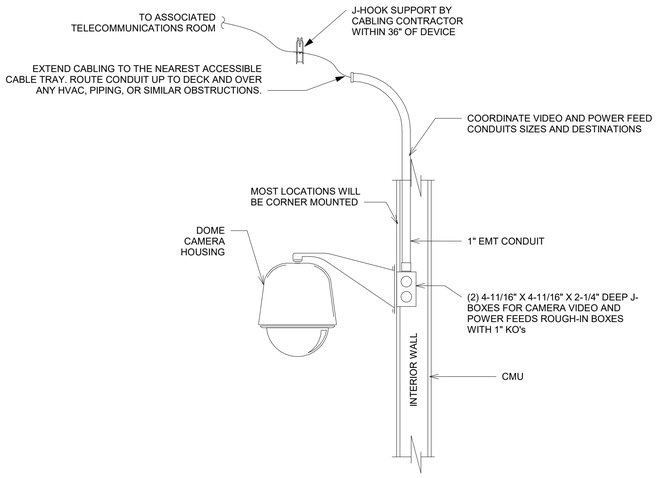
21-052

T-503

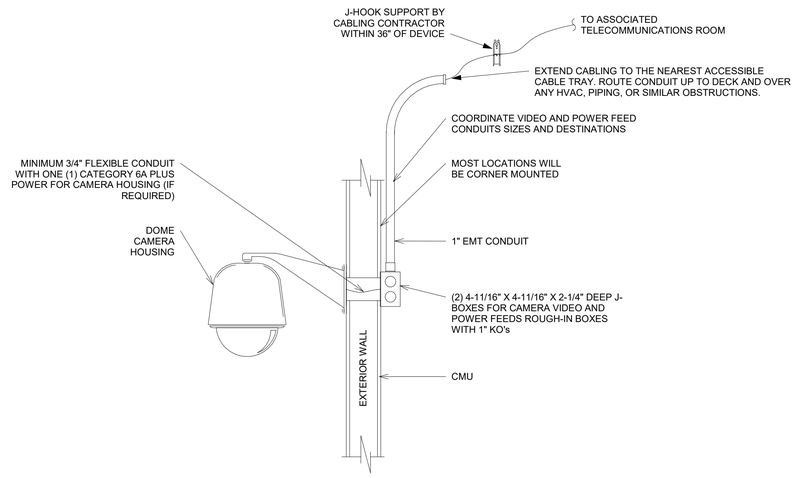
PRINT DATE: 1/8/2024 10:07:40 AM



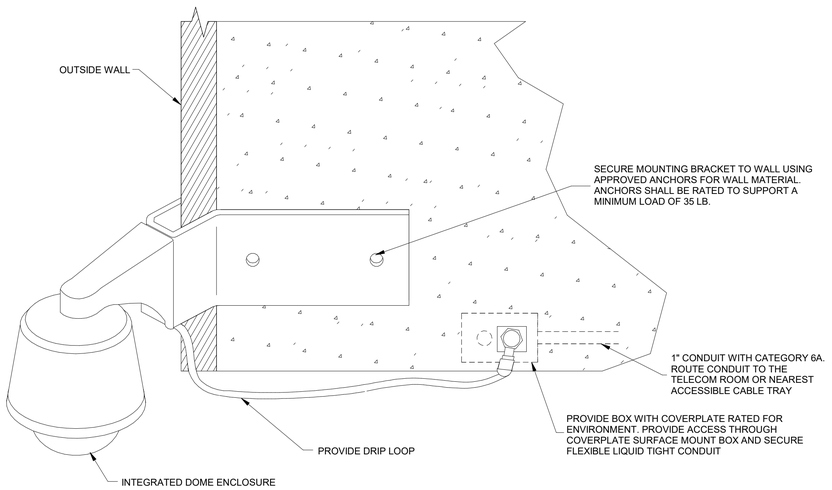
1 **CAMERA MOUNTING DETAIL - INTERIOR - CEILING SURFACE**
NTS



2 **CAMERA MOUNTING DETAIL - INTERIOR - WALL MOUNTED**
NTS



3 **CAMERA MOUNTING DETAIL - EXTERIOR - WALL MOUNTED**
NTS

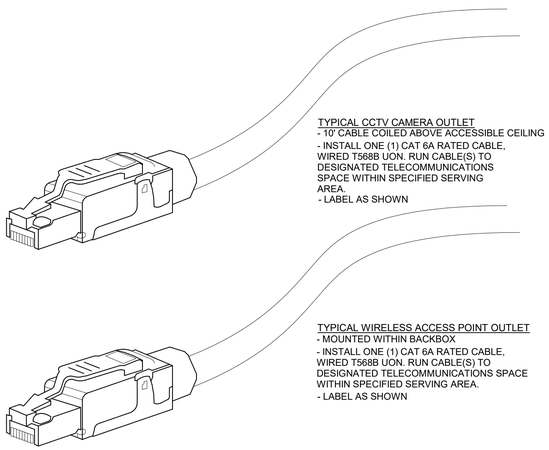


4 **EXTERIOR CORNER MOUNTED DOME CAMERA DETAILS**
12" = 1'-0"

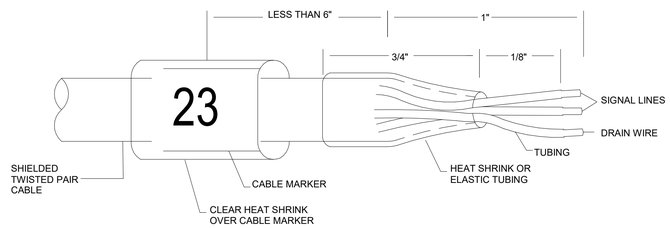
CAMERA SCHEDULE

DEVICE ID	CAM SENSOR COUNT (F=FIXED P=PTZ)	LEVEL	DETAIL REFERENCE
V01001	1F	FIRST FLOOR	T-504-2
V01002	2F	FIRST FLOOR	T-504-1
V01003	1F	FIRST FLOOR	T-504-2
V01005	2F	FIRST FLOOR	T-504-3
V01006	2F	FIRST FLOOR	T-504-3
V01007	2F	FIRST FLOOR	T-504-3
V01008	2F	FIRST FLOOR	T-504-1
V01009	2F	FIRST FLOOR	T-504-3
V01010	2F	FIRST FLOOR	T-504-1
VE01001	4F	FIRST FLOOR	T-504-4
VE01002	4F	FIRST FLOOR	T-504-4
VE01003	4F	FIRST FLOOR	T-504-4
VE01004	4F	FIRST FLOOR	T-504-4
VE01005	1F	FIRST FLOOR	T-504-3
VE01006	4F	FIRST FLOOR	T-504-4
VE01008	2F	FIRST FLOOR	T-504-3
VE01009	2F	FIRST FLOOR	T-504-3
VE01010	2F	FIRST FLOOR	T-504-4

Total: 18



5 **MODULAR PLUG TERMINATED LINK (MPTL) DETAIL**
12" = 1'-0"



NOTES:
1. ALL CABLES TO BE LABELED, WITH LABEL SECURED AND PROTECTED BY CLEAR HEAT SHRINK.
2. ALL DRAIN WIRES TO BE SERVED WITH CLEAR HEAT SHRINK OR INSULATING TUBING. WRAP UNUSED DRAIN WIRES UNDER END DRESS BOOT.
3. REQUIRED AT EACH CABLE TERMINATION IN RACKS, TERMINAL BOXES AND AT WALL PLATES.

6 **STANDARD PREPARATION FOR ALL TERMINATIONS**
NTS

EMBOSS
EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

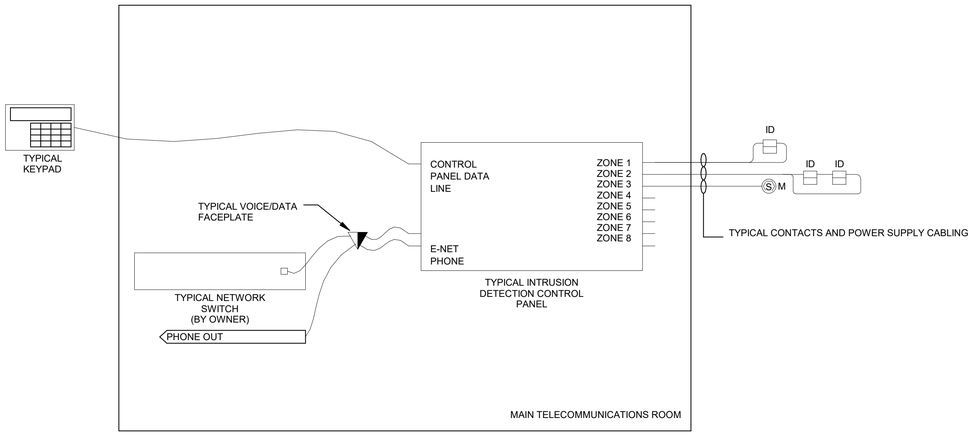
NO.	DESCRIPTION	DATE

TECHNOLOGY DETAILS (SECURITY CAMERAS)

21-052

T-504

PRINT DATE: 1/8/2024 10:07:40 AM



NOTES:

1. CONTRACTOR SHALL VERIFY EXACT CABLING REQUIREMENTS PRIOR TO INSTALLATION.
2. DIAGRAM IS REPRESENTATIONAL ONLY. CARD ACCESS CONTRACTOR SHALL SUBMIT FOR APPROVAL PROJECT SPECIFIC RISER DIAGRAM AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. ALL INSTALLATION MATERIALS AND WORKMANSHIP SHALL BE PER LOCAL, STATE AND FEDERAL CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC) AND NFPA 101.
4. CARD ACCESS CONTRACTOR SHALL COORDINATE EXACT POWER SUPPLY CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.
5. CARD ACCESS CONTRACTOR SHALL PROVIDE ALL JUMPERS AND CABLING REQUIRED TO COMPLETE THE ALL INTERCONNECTIONS OF THE SYSTEM. ALL ETHERNET NETWORK CABLING BOTH COPPER AND FIBER SHALL BE COMPLIANT WITH THE STRUCTURED CABLING SYSTEM SPECIFICATION, SECTION 271500, AND SHALL MATCH THE MANUFACTURER AND PERFORMANCE RATING OF THE STRUCTURED CABLING REQUIREMENTS. VERIFY THESE REQUIREMENTS WITH THE STRUCTURED CABLING CONTRACTOR.

1 INTRUSION DETECTION RISER DIAGRAM
1/2" = 1'-0"

emboss
EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

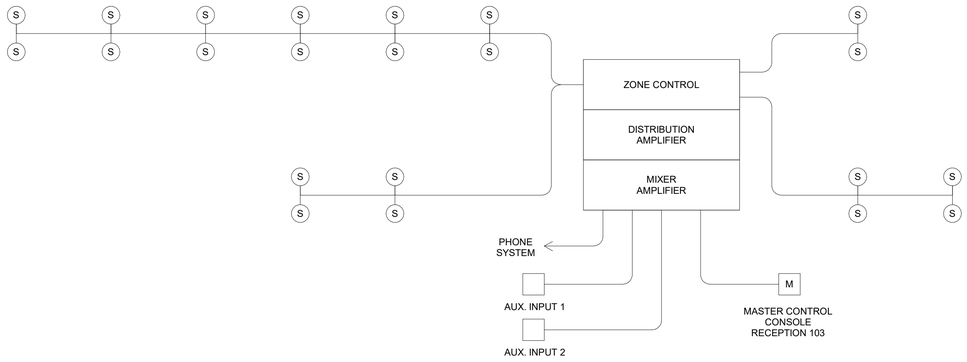
NO.	DESCRIPTION	DATE

TECHNOLOGY DETAILS
(INTRUSION DETECTION)

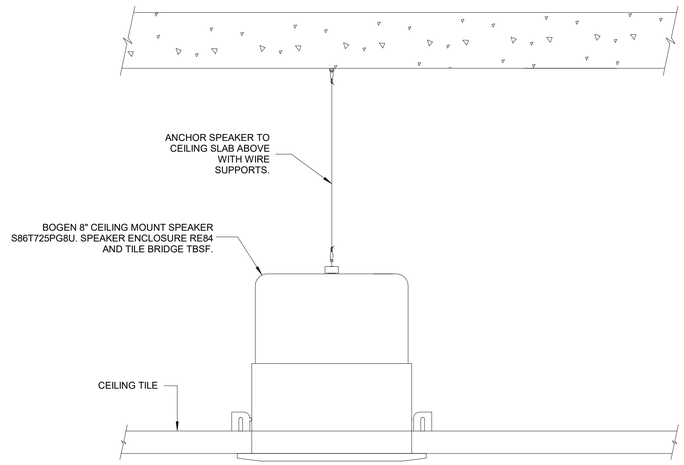
21-052

T-505

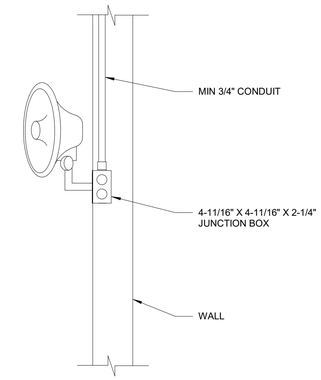
PRINT DATE: 1/8/2024 10:07:40 AM



1 **TYPICAL PUBLIC ADDRESS ONE-LINE**
12" = 1'-0"



2 **CEILING SPEAKER DETAIL**
1" = 1'-0"



3 **30W WALL MOUNT HORN DETAIL**
12" = 1'-0"

EmbossDesign.com
(859)431-8612
906 Monmouth Street,
Newport, KY 41071

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Christy A Miller
BICSI ID # 109630
EXPIRES 12-31-24
RCDD

PRICE HILL TEEN CENTER & OFFICES
FOR BOYS & GIRLS CLUB OF GREATER CINCINNATI
Glenway Ave, Cincinnati, OH 45205

NO.	DESCRIPTION	DATE

TECHNOLOGY DETAILS (PAGING)

21-052

T-506

PRINT DATE: 1/8/2024 10:07:40 AM