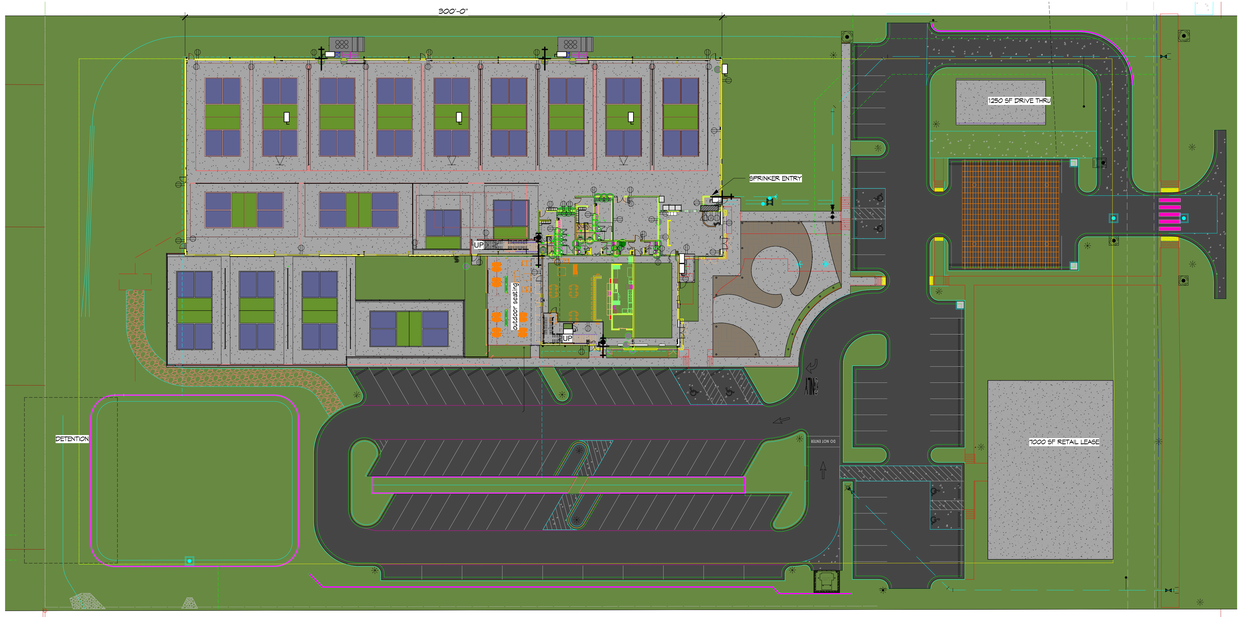
PICKLEBALL

N MAIN

CENTERTON, AR



2 CONCEPT



1 SITE PLAN
1" = 30'-0"

PROJECT TEAM

Burris Architecture
820 Tiger Blvd, Suite 4, Bentonville, Ar 72712
479-319-6045

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATION HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS.

MEP

Fluidngineers
501 N. 34th St.
P.O. Box 3096
Rogers, AR 72301
(479) 282-1028 x101

STRUCTURAL

MILLER ENGINEERING
3021 S. TWIN CREEK AVE.
SUITE A
SPRINGFIELD, MO 65807
(417) 866-8664

GENERAL NOTES:

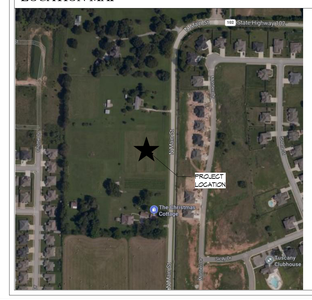
1. CONTRACTOR IS TO INSPECT EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, UNDERGROUND WATER MAINS, SEWER, TELEPHONE, AND ELECTRIC. WORK HERE UNDER ARE INDICATED ON DRAWINGS FOR DIAGRAMMATIC PURPOSES. NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. RESPONSIBILITY FOR SUCH ACCURACY AND COMPLETENESS IS DISCLAIMED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING UNDERGROUND INSTALLATIONS PRIOR TO EXCAVATING.
2. ALL DIMENSIONS ARE FROM FACE OF STUD, FACE OF CONC. OR CENTER LINE UNLESS NOTED OTHERWISE. DRAWINGS ARE NOT TO BE SCALED, DIMENSIONS SHALL BE IN WRITTEN INFORMATION ONLY. VERIFY DIMENSIONS PRIOR TO WORK. ALTERATIONS IN DIMENSIONS AFFECTING THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PROMPTLY FOR A RESOLUTION.
3. NOT ALL MATERIALS AND ASSEMBLIES HAVE BEEN SPECIFIED. CONTRACTOR IS TO VERIFY ALL NON-SPECIFIED ITEMS WITH OWNER & ARCHITECT PRIOR TO EXECUTING ANY WORK INVOLVING THESE ITEMS.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT SUBSTITUTIONS OR DEVIATIONS FROM THE CONTRACT DOCUMENTS TO THE ARCHITECT FOR APPROVAL. NON-APPROVED DEVIATIONS WILL HOLD THE ARCHITECTS AND CONSULTING ENGINEERS HARMLESS FOR SUCH ITEMS.
5. ALL WORK TO CONFORM TO APPLICABLE CODES. THE MOST STRINGENT CODE SHALL APPLY. DISCREPANCIES IN CODE AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIATELY AND RESOLVED BEFORE PROCEEDING.
6. ALL MATERIALS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND AS SUCH ALL SUBCONTRACTORS ARE TO INSURE THAT ALL MANUFACTURER'S WARRANTIES WILL BE HONORED.
7. ALL SUBCONTRACTORS ARE RESPONSIBLE FOR INSURING THEIR SAFETY AND OF THEIR PERSONNEL ON THE JOB SITE AT ALL TIMES. THEY SHALL CARRY WORKMAN'S COMPENSATION AND LIABILITY INSURANCE FOR THEMSELVES AND THEIR EMPLOYEES. SUBCONTRACTORS AND THEIR EMPLOYEES SHALL BE PERSONALLY RESPONSIBLE TO FOLLOW ALL OSHA RULES AND REGULATIONS.
8. GENERAL CONTRACTOR IS TO COORDINATE ALL MECH. ELECT. AND PLUMBING AND PROVIDE NECESSARY CONSTRUCTION TO FACILITATE SUCH WORK INCLUDING SUPPORTS, BLOCKING, ROUGH OPENING ETC.
9. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW ARCHITECTURAL DRAWINGS BEFORE INSTALLATION OF MECH. ELECT OR SYSTEMS INSTALLATION, AND SHALL NOTIFY ARCHITECT IMMEDIATELY FOR ANY DISCREPANCIES. ANDY WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO EXPENSE TO THE OWNER OR ARCHITECT.
10. ALL DRAWINGS, SPECIFICATIONS AND DESIGN OF THE FOLLOWING SYSTEMS ARE TO BE PROVIDED BY OTHERS AS REQUIRED. OWNER SHALL CONTRACT WITH OTHERS UNDER SEPARATE CONTRACTS.

A. CIVIL ENGINEERING

SHEET INDEX

#	SHEET NAME	ISSUE DATE	Current Revision Description	REVISION
A0.0	COVER SHEET	02/25/2026		
A0.1	STANDARDS	02/25/2026		
A0.2	CODE FOOTPRINT	02/25/2026		
S0.0	NOTES AND SCHEDULES	02/25/2026		
S1.0	SLAB LAYOUT PLAN	02/25/2026		
S1.1	EXTERIOR SLAB LAYOUT PLAN	02/25/2026		
S1.2	FOUNDATION SLAB	02/25/2026		
S2.0	FOUNDATION DETAILS	02/25/2026		
S3.0	MEZZANINE FRANMING PLAN	02/25/2026		
S4.0	MEZZANINE FRAMING DETAILS	02/25/2026		
A1.0	FIRST FLOOR PLAN	02/25/2026		
A1.1	ENLARGED PLAN	02/25/2026		
A1.2	MEZZ PLAN	02/25/2026		
A1.3	RCP	02/25/2026		
A1.4	ROOF PLAN	02/25/2026		
A2.0	EXTERIOR ELEVATIONS	02/25/2026		
A3.0	BUILDING SECTIONS	02/25/2026		
A3.2	WALL SECTIONS	02/25/2026		
A4.0	ENLARGED PLANS	02/25/2026		
A4.2	INTERIOR ELEVATIONS	02/25/2026		
A4.3	PLATFORM LIFT	02/25/2026		
A5.0	SCHEDULES	02/25/2026		
A5.1	DETAILS	02/25/2026		
A6.0	FINISH SCHEDULES	02/25/2026		
P0.1	PLUMBING SPECIFICATIONS	TBD		
P1.1	PLUMBING SUPPLY PLAN BUILDING	TBD		
P1.2	PLUMBING SUPPLY PLAN FIRST FLOOR ENLARGED	TBD		
P1.3	PLUMBING WASTE/VENT PLAN BUILDING	TBD		
P1.4	PLUMBING WASTE/VENT PLAN ENLARGED	TBD		
P1.5	PLUMBING PLANS MEZZANINE	TBD		
P6.1	PLUMBING SCHEDULES AND DETAILS	TBD		
P9.1	PLUMBING WASTE/VENT RISER	TBD		
M0.1	MECHANICAL SPECIFICATIONS	TBD		
M1.1	MECHANICAL PLAN FIRST FLOOR	TBD		
M1.2	MECHANICAL PLAN FIRST FLOOR ENLARGED	TBD		
M1.3	MECHANICAL PLAN SECOND FLOOR	TBD		
M1.4	MECHANICAL PLAN ROOF	TBD		
M6.1	MECHANICAL SCHEDULES & DETAILS	TBD		
M8.1	MECHANICAL DUCTSOX VENDOR SHEET	TBD		
E0.1	ELECTRICAL SPECIFICATIONS	TBD		
E1.0	SITE ELECTRICAL PLAN	TBD		
E1.1	ELECTRICAL LIGHTING PLAN FIRST FLOOR	TBD		
E1.2	ELECTRICAL LIGHTING PLAN FIRST FLOOR ENLARGED	TBD		
E1.3	ELECTRICAL LIGHTING PLAN MEZZANINE	TBD		
E1.4	ELECTRICAL POWER PLAN FIRST FLOOR	TBD		
E1.5	ELECTRICAL POWER PLAN FIRST FLOOR ENLARGED	TBD		
E1.6	ELECTRICAL POWER PLAN MEZZANINE	TBD		
E1.7	ELECTRICAL POWER PLAN ROOF	TBD		
E6.1	ELECTRICAL SCHEDULES & RISER	TBD		
E6.1	SITE PHOTOMETRIC PLAN	TBD		
FA0.1	FIRE ALARM SPECIFICATIONS	TBD		
FX0.1	FIRE SUPPRESSION SPECIFICATIONS	TBD		

LOCATION MAP



PRELIMINARY
NOT FOR CONSTRUCTION

Burris Architecture
820 Tiger Blvd. Bentonville, Ar 72712
479.636.3531

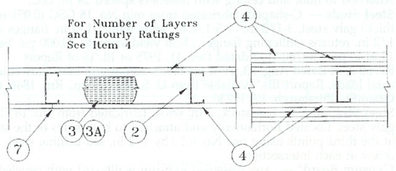
PICKLEBALL
N MAIN
CENTERTON, AR

DATE
02/25/2026
JOB NO.
25132
REVISIONS

A0.0
COVER SHEET

Design No. U419

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners —** (Not shown) — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets* —** (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

3A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulatio (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

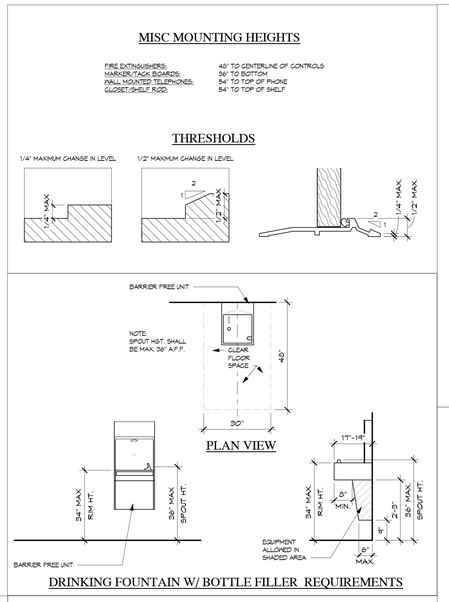
4A. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5.
CANADIAN GYPSUM COMPANY —Type FRX
UNITED STATES GYPSUM CO —Type FRX

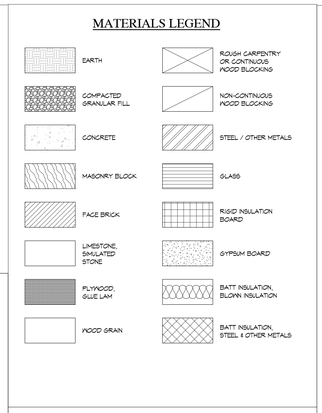
4B. **Gypsum Board* —** (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
CANADIAN GYPSUM COMPANY — Type SHX.
UNITED STATES GYPSUM CO —Type SHX.
USG MEXICO S A DE C V — Type SHX.

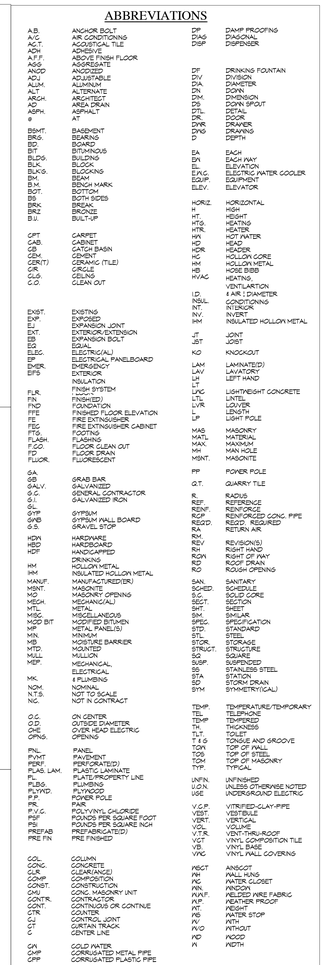
5. **Fasteners —** (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

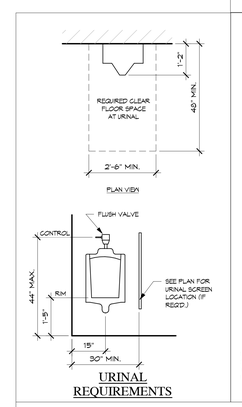
6. **Furring Channels —** (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.
7. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
8. **Siding, Brick or Stucco —** (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
9. **Caulking and Sealants* —** (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO —Type AS

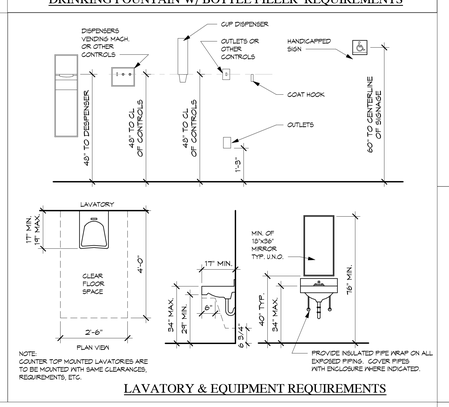
*Bearing the UL Classification Mark

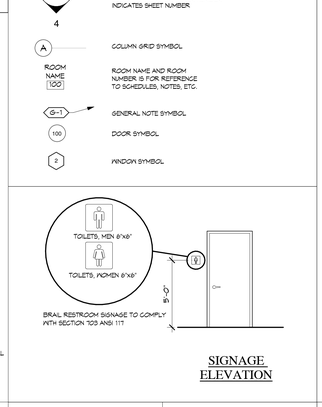


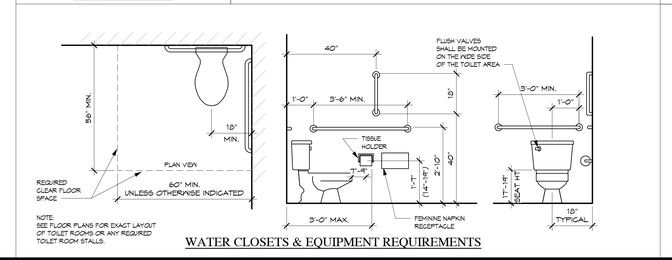


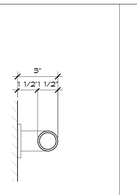


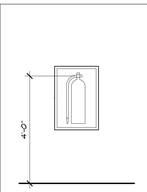












GENERAL NOTES

1. FIXTURE AND ACCESSORIES MOUNTING DETAILS AND REQUIREMENTS ARE TYPICAL AND APPLY TO REQUIRED ACCESSIBLE INSTALLATIONS ONLY. REFER TO PLANS FOR LOCATIONS AND TYPES OF LAYOUTS. EQUIPMENT SHOWN MAY OR MAY NOT APPEAR ON THIS PROJECT.
2. PROVIDE SOLID BLOCKING FOR ALL ACCESSORIES WHICH IS CAPABLE OF WITHSTANDING 250 LB. FORCE. (SHEAR AND BENDING). GRAB BARS SHALL NOT ROTATE. FASTENERS SHALL BE OF A TYPE TO WITHSTAND REQUIRED FORCE AND TO BE APPROPRIATE FOR WALL TYPE.
3. ALL EXTERIOR RAMPS SHALL HAVE A NONSKID FINISH AS SPECIFIED. ALL INTERIOR RAMPS SHALL HAVE FLOORING OF NONSKID MATERIAL. IF NO FINISH IS INDICATED ON THE DRAWINGS - PROVIDE RUBBER RADIAL TILE ON FINISH FLOOR SURFACE OF INTERIOR RAMPS.
4. ANY METAL FLOOR GRATINGS OR DRAINAGE GRATINGS IN AN ACCESSIBLE PATH SHALL HAVE SPACES NO GREATER THAN 1/2" WIDE IN ONE DIRECTION. LONG DIMENSION SHALL BE PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

PRELIMINARY
NOT FOR CONSTRUCTION

Burris Architecture
820 Tiger Blvd. Bentonville, Ar 72712
479.636.3531

PICKLEBALL
N MAIN
CENTERTON, AR

DATE
02/25/2026
JOB NO.
25132
REVISIONS

A0.1
STANDARDS

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PRELIMINARY
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OCCUPANT LOAD BY SPACE					
Room #	Room Name	Area	Occupancy Classification	FAPO	Total Occupants
FIRST FLOOR					
000	PLAY SPACE	1497 SF	(none)		
100	INDOOR COURTS	28932 SF	Exercise Rooms	50 SF	578.64
101	RISER ROOM	64 SF	Accessory Storage/Mechanical	300 SF	0.23
102	ENTRY	808 SF	Assembly - UnConcentrated	15 SF	53.86
103	STORAGE	603 SF	Accessory Storage/Mechanical	300 SF	2.01
104	RESTROOM	231 SF	Accessory Storage/Mechanical	300 SF	0.77
106	SHOWER	48 SF	Accessory Storage/Mechanical	300 SF	0.16
107	SHOWER	46 SF	(none)		
108	LOCKER	142 SF	Accessory Storage/Mechanical	300 SF	0.47
109	RESTROOM	229 SF	Accessory Storage/Mechanical	300 SF	0.76
110	LOCKER	132 SF	Accessory Storage/Mechanical	300 SF	0.44
111	SHOWER	50 SF	(none)		
112	SHOWER	32 SF	Accessory Storage/Mechanical	300 SF	0.11
113	STAIR1	266 SF	(none)		
300	FUTURE RESTAURANT	2461 SF	Assembly - UnConcentrated	15 SF	164.04
301	ALCOVE	41 SF	Assembly - UnConcentrated	15 SF	2.76
302	WOMENS	57 SF	Agricultural Building	300 SF	0.19
303	MENS	55 SF	Accessory Storage/Mechanical	300 SF	0.18
315	EXTERIOR PATIO	1492 SF	(none)		
400	FUTURE GYM	1211 SF	Mercantile - Grade Floors and Basement	30 SF	40.38
401	ALCOVE	41 SF	Assembly - Standing	5 SF	8.10
402	REST ROOM	55 SF	Business Areas	150 SF	0.36
403	JANITOR	67 SF	Accessory Storage/Mechanical	300 SF	0.22
MEZZ					
110	MEZZANINE	1671 SF	Assembly - UnConcentrated	15 SF	111.42
111	MECH	314 SF	Accessory Storage/Mechanical	300 SF	1.06
115	UNFINISHED MEZZ	2720 SF	Assembly - UnConcentrated	15 SF	181.06
					1140.07

CODE SUMMARY

APPLICABLE CODES:
INCLUDED BUT NOT LIMITED TO, THE LATEST ADOPTED ADDITIONS OF THESE CODES AS AMENDED BY THE CITY OF CENTERTON AND THE STATE OF ARKANSAS

2021 Arkansas Fire Prevention Code Vol. I (2021 IFC w/ Arkansas Amendments)
2021 Arkansas Fire Prevention Code Vol. II - Commercial (2021 IBC w/ Arkansas Amendments)
2021 Arkansas Fire Prevention Code Vol. III - Residential (2021 IRC w/ Arkansas Amendments)
2018 Arkansas Plumbing Code (IPC)
2021 Arkansas Mechanical Code (IMC)
2020 National Electrical Code (NEC)
2018 Arkansas Fuel Gas Code (IFGC)
2014 Arkansas Energy Code (ASC)
2004 ANSI A117.1

THIS PROJECT IS A PICKLE BALL GYM, RESTAURANT AND MERCHANTILE

THE BUILDING IS SPRINKLERED

BUILDING DATA:
PROPOSED USE: GYMNASIUM W/ OUT SEATING, RESTAURANT & MERCANTILE
OCCUPANCY TYPE: NON SEPARATED USE GROUPS A-3, A-2, M

CONSTRUCTION TYPE: IIB

ALLOWABLE AREA = 36,000 SF (MOST RESTRICTIVE FROM TABLE 506.2 IS A-2 AND S1 = 36,000 SF PER STORY)
ALLOWABLE HT/STORIES = "S" AND 2 STORY

ACTUAL AREA :
FIRST FLOOR: 36,802 SF
MEZZANNE: 5,742 SF
TOTAL: 42,474 SF

ACTUAL HT/STORIES = 32' AND 1 STORY W/ MEZZANINE

OCCUPANCY = SEE CODE DIAGRAM

LEGEND

FE = RECESSED FIRE EXTINGUISHER CABINET

DOOR EGRESS:
** OCCUPANTS ACTUAL
** OCCUPANTS ALLOWABLE

KEYNOTES

P-1 MOP SINK
P-2 RPZ
P-3 SPRINKLER RISER



2 MEZZANINE
1/16" = 1'-0"

- Accessory Storage/Mechanical
- Assembly - Standing
- Assembly - UnConcentrated
- Business Areas
- Exercise Rooms
- Kitchens - Commercial
- Locker Rooms
- Stages and Platforms
- Warehouses

EGRESS DISTANCES	
Exit Path	Exit Path Distance
A	167' - 1"
B	225' - 9"
C	171' - 3"
D	75' - 4"
E	192' - 6"
F	64' - 2"



1 FIRST FLOOR LIFE SAFETY PLAN
1/16" = 1'-0"

Burris Architecture
820 Tiger Blvd. Bentonville, Ar 72712
479.936.3531

PICKLEBALL
N MAIN
CENTERTON, AR

DATE
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REVISIONS

A0.2
CODE FOOTPRINT

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GENERAL NOTES

1. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING ARE IN PLACE.
3. FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY DESIGN TEAM WHEN EXISTING CONDITIONS ARE IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS.
4. THE FOUNDATIONS AND STRUCTURAL FRAMING HAVE BEEN DESIGNED TO RESIST SEISMIC FORCES PER THE INTERNATIONAL BUILDING CODE REFERENCED IN THE LOAD TABLE IN ACCORDANCE WITH THE REQUIREMENTS OF ACT 1100 OF THE 1991 ARKANSAS STATE LEGISLATURE. THE REQUIRED SEISMIC DESIGN DATA IS AS SHOWN IN THE LOAD TABLE.

STANDARD ABBREVIATIONS

# - NUMBER	LLH - LONG LEG HORIZONTAL
@ - AT	LLV - LONG LEG VERTICAL
Ø - DIAMETER	LO - LOW
AB - ANCHOR BOLT/ANCHOR ROD	LOC/LOCS - LOCATION(S)
ADDL - ADDITIONAL	LONG - LONGITUDINAL
AFF - ABOVE FINISHED FLOOR	LSH - LONG SIDE HORIZONTAL
ALT - ALTERNATE/ALTERNATING	LSL - LAMINATED STRAND LUMBER
ARCH - ARCHITECT/ARCHITECTURAL	LSV - LONG SIDE VERTICAL
BB - BOND BEAM	LVL - LAMINATED VENEER LUMBER
BO - BOTTOM OF	MAX - MAXIMUM
BOF - BOTTOM OF FOOTING /FOUNDATION	MECH - MECHANICAL MEP - MECHANICAL/ELECTRICAL /PLUMBING
BOS - BOTTOM OF STEEL	
BOT - BOTTOM	MFR - MANUFACTURER
BRG - BEARING	MIN - MINIMUM
BTWN - BETWEEN	MTL - METAL
CANT - CANTILEVER	NTS - NOT TO SCALE
CFS - COLD FORMED STEEL	OC - ON CENTER
CJ - CONTROL JOINT	OD - OUTSIDE DIAMETER
CL - CENTER LINE	OH - OVERHEAD/OVERHANG
CLR - CLEAR	OPNG - OPENING
CMU - CONCRETE MASONRY UNIT	OPP HAND - OPPOSITE HAND
COL - COLUMN	OWSJ - OPEN WEB STEEL JOIST
CONC - CONCRETE	PAF - POWDER ACTUATED FASTENER
CONT - CONTINUOUS	PED - PEDESTAL
CTR - CENTER/CENTERED	PEMB - PRE-ENGINEERED METAL BUILDING
DBA/DBAS - DEFORMED BAR ANCHOR(S)	PEWT - PRE-ENGINEERED WOOD TRUSS
DBE - DEFORMED BEARING ELEVATION	PL - PLATE
DBL - DOUBLE	PLCS - PLACES
DIM/DIMS - DIMENSION(S)	PROJ - PROJECTION
DL - DEAD LOAD	PSL - PARALLEL STRAND LUMBER
DWL/DWLS - DOWEL(S)	PVMT - PAVEMENT
EQ - SEISMIC LOAD (EARTHQUAKE)	QUAD - QUADRUPLE
EL - ELEVATION	REINF - REINFORCEMENT
EMBED - EMBEDMENT/EMBEDDED	REQ'RED - REQUIRE(S)/REQUIREMENT /REQUIRED
EOR - ENGINEER OF RECORD	RL - ROOF LIVE LOAD
EPA - EFFECTIVE PROJECTED AREA	SCHED - SCHEDULE
EQ - EQUAL/EQUIVALENT	SIM - SIMILAR
EQUIP - EQUIPMENT	SIP/SIPS - STRUCTURAL INSULATED PANEL(S)
EW - EACH WAY	SL - SNOW LOAD
EXP - EXPANSION	SQ - SQUARE
EXIST - EXISTING	SS - STAINLESS STEEL
EXT - EXTERIOR	STL - STEEL
FDTN - FOUNDATION	SYMM - SYMMETRICAL
FF EL - FINISHED FLOOR ELEVATION	T&B - TOP & BOTTOM
FIN - FINISH	TBE - TRUSS BEARING ELEVATION
FLR - FLOOR	TEMP - TEMPORARY/TEMPERATURE
FTG - FOOTING	TO - TOP OF
FV - FIELD VERIFY	TOB - TOP OF BEAM
GA - GAUGE/GAGE	TOC - TOP OF CONCRETE
GALV - GALVANIZED	TOF - TOP OF FOOTING/FOUNDATION
GEN - GENERAL	TOM - TOP OF MASONRY
HDR - HEADER	TOS - TOP OF STEEL
HI - HIGH	TOW - TOP OF WALL
HORIZ - HORIZONTAL	TRANS - TRANSVERSE
ID - INSIDE DIAMETER	TRIP - TRIPLE
INSUL - INSULATED/INSULATION	TYP - TYPICAL
INT - INTERIOR	UNO - UNLESS NOTED OTHERWISE
JBE - JOIST BEARING ELEVATION	VERT - VERTICAL
K - KIPS (1000 LBS)	w/ - WITH
L/C - ANGLE	WL - WIND LOAD
LAT - LATERAL	WWR - WELDED WIRE REINFORCEMENT (MESH/FABRIC)
LBS - POUNDS	
LL - LIVE LOAD	

NOTES:
1. NOT ALL ABBREVIATIONS ARE USED ON EACH SHEET. THIS INFORMATION IS FOR REFERENCE ONLY.

LOAD TABLE

2021 ARKANSAS FIRE PREVENTION CODE

DEAD LOADS			
FLOOR			
SLAB ON GRADE		50	PSF
ROOF			
WEIGHT OF MATERIALS		BY PEMB	
COLLATERAL LOAD		5	PSF
MEZZANINE		60	PSF
LIVE LOADS			
FLOOR			
SLAB ON GRADE		125	PSF
MEZZANINE		100	PSF
STAIRS		100	PSF
ROOF		20	PSF
OCCUPANCY CATEGORY		II	
ROOF SNOW LOAD			
GROUND SNOW LOAD	P_g	15	PSF
FLAT ROOF SNOW LOAD	P_f	10.5	PSF
MINIMUM LOW-SLOPE ROOF SNOW LOAD	P_m	15	PSF
SLOPED ROOF SNOW LOAD	P_s	10.5	PSF
SNOW EXPOSURE FACTOR	C_e	1.0	
THERMAL FACTOR	C_t	1.0	
ROOF SLOPE FACTOR	C_s	1.0	
SNOW LOAD IMPORTANCE FACTOR	I_s	1.0	
NOTE: SNOW DRIFT LOADS ACCOUNTED FOR			
WIND DESIGN DATA			
BASIC WIND SPEED	V_{ULT}	107.0	MPH
EXPOSURE CATEGORY		C	
INTERNAL PRESSURE COEFFICIENT		±0.18	
EARTHQUAKE DESIGN DATA			
SEISMIC IMPORTANCE FACTOR	I_E	1.00	
MAPPED SPECTRAL RESPONSE ACCELERATIONS	S_S	0.149	
	S_1	0.088	
SITE CLASS		D	
SPECTRAL RESPONSE COEFFICIENTS	S_{DS}	0.159	
	S_{D1}	0.140	
SEISMIC DESIGN CATEGORY		C	
PRE-ENGINEERED METAL BUILDING			
SEISMIC RESPONSE FACTOR	R	BY PEMB	
BASIC SEISMIC-FORCE-RESISTING SYSTEM		BY PEMB	
SEISMIC RESPONSE COEFFICIENT	C_S	BY PEMB	
DESIGN BASE SHEAR	V	BY PEMB	
MEZZANINE			
SEISMIC RESPONSE FACTOR	R	8	
BASIC SEISMIC-FORCE-RESISTING SYSTEM		STEEL ECCENTRICALLY BRACED FRAMES	
SEISMIC RESPONSE COEFFICIENT	C_S	0.020	
DESIGN BASE SHEAR	V	4.500	KIPS
ANALYSIS PROCEDURE USED		EQUIV. LATERAL FORCE PROCEDURE	
MIN REQUIRED SOIL PROPERTIES			
SOIL BEARING CAPACITY		2000	PSF
TOTAL SETTLEMENT		1	INCH
DIFFERENTIAL SETTLEMENT		0.5	INCH
COEFFICIENT OF FRICTION		0.25	

SPECIAL INSPECTION NOTES

1. SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC REFERENCED IN THE LOAD TABLE. THE OWNER SHALL EMPLOY A THIRD PARTY TESTING AGENCY FOR ALL TESTING STATED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH SAID INSPECTION AGENCY.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
5. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.
6. THE THIRD PARTY TESTING AGENCY SHALL CONTACT THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INITIATION OF CONSTRUCTION.

SOIL TESTING AND INSPECTION

7. PERIODICALLY VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
8. PERIODICALLY VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL
9. PERIODICALLY PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIAL
10. CONTINUALLY VERIFY USE OF PROPER MATERIALS, DENSITIES & LIFT THICKNESS DURING PLACEMENT & COMPACTION OF CONTROLLED FILL
11. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PROPERLY PREPARED

CONCRETE CONSTRUCTION INSPECTION

12. INSPECT REINFORCING STEEL PRIOR TO PLACING CONCRETE. CHECK REINFORCING SIZE, SPACING AND LOCATION.
13. CYLINDERS SHALL BE MADE FOR DETERMINING THE CONCRETE STRENGTH FROM EACH CLASS OF CONCRETE TO BE PLACED. SAMPLES SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS.
14. EACH TIME THE CYLINDERS ARE MADE THE SLUMP, AIR CONTENT AND TEMPERATURE OF THE CONCRETE SHALL ALSO BE CHECKED.
15. THE CONTRACTOR'S METHOD OF MAINTAINING THE MINIMUM CURING TEMPERATURE AND CURING TECHNIQUE SHALL BE REVIEWED.

STEEL CONSTRUCTION INSPECTION

16. PERIODICALLY VERIFY THAT THE PROPER MATERIALS ARE BEING USED.
17. PERIODICALLY CHECK TIGHTENING OF HIGH-STRENGTH BOLTS ACCORDING TO THE PEMB MANUFACTURES SPECIFICATIONS. BOLTS FOR MISCELLANEOUS STRUCTURAL STEEL SHALL BE SNUG TIGHT.
18. WELDING PROCEDURES, MATERIALS AND WELDER QUALIFICATIONS FOR ALL FIELD WELDING SHALL BE VERIFIED PRIOR TO THE START OF WORK.

METAL STUD CONSTRUCTION

19. PERIODICALLY VERIFY THAT THE PROPER SIZE, GRADE, SPACING, ETC. OF ALL FRAMING MEMBERS ARE USED.
20. PERIODICALLY VERIFY THAT THE PROPER CONNECTIONS ARE USED INCLUDING FRAMING ANCHORS, HANGERS, SIZE, SPACING & NUMBER OF FASTENERS, ETC.
21. PERIODICALLY VERIFY THAT ALL STRUCTURAL BRIDGING, BLOCKING AND BRACING IS PROPERLY INSTALLED.

FOUNDATION NOTES

1. IN THE AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS, PAVEMENT AND OTHER DELETERIOUS MATERIALS SHALL BE REMOVED.
2. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF A SOILS ENGINEER.
3. TESTING OF CONTROLLED STRUCTURAL FILL SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY IN ACCORDANCE WITH THE SPECIAL INSPECTION NOTES.
4. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
5. AFTER EXCAVATION FOR FOUNDATIONS AND PRIOR TO PLACEMENT OF STEEL REINFORCEMENT OR CONCRETE, NOTIFY SOILS ENGINEER FOR INSPECTION OF SOIL CONDITIONS.
6. FOOTINGS SHALL BEAR AT MINIMUM DEPTHS AS NOTED IN FOOTING SECTIONS AND PLANS OR INTO APPROVED BEARING STRATA, WHICHEVER DEPTH IS GREATER. NOTE THAT FOOTING BEARING ELEVATIONS GIVEN ON THE PLANS ARE ESTIMATED DEPTHS ONLY. WHERE UNSUITABLE SOIL IS ENCOUNTERED OR WHERE FINISHED EXTERIOR GRADE VARIES FROM THE ASSUMED EXTERIOR GRADE, FOOTING DEPTHS MAY VARY.
7. CONTINUOUS SPREAD FOOTINGS AND ISOLATED FOOTINGS ARE DESIGNED FOR THE ASSUMED SOIL PROPERTIES SPECIFIED IN THE LOAD TABLE. FOR EITHER NATURALLY OCCURRING SOIL OR COMPACTED ENGINEERED FILL. AFTER FOOTING EXCAVATIONS HAVE BEEN MADE TO DESIGN ELEVATIONS, THE INDEPENDENT TESTING AGENCY EMPLOYED BY THE OWNER SHALL INSPECT AND TEST THE BEARING SOIL. WHEN SOIL OF INADEQUATE STRENGTH IS NOTED, CONTRACTOR SHALL FURTHER DEEPEN EXCAVATIONS UNTIL SUITABLE BEARING CONDITIONS ARE VERIFIED BY TESTING. OVER EXCAVATIONS MAY BE BACKFILLED WITH SUITABLE COMPACTED ENGINEERED FILL, SUITABLE GRANULAR BASE, LEAN CONCRETE OR STRUCTURAL CONCRETE BACKFILL.
8. IF BEDROCK IS ENCOUNTERED IT SHALL BE OVER-EXCAVATED TO ALLOW PLACEMENT OF A MINIMUM OF 12" OF COMPACTED LOW PLASTICITY EARTH FILL OR COMPACTED BASE ROCK BELOW FOOTINGS.

CONCRETE NOTES

1. CONCRETE WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301), LATEST EDITION.
2. CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY. SEE THE SPECIAL INSPECTION NOTES FOR ADDITIONAL INFORMATION.
3. INSTALL GROUT BELOW STEEL BASE PLATES WHERE REQUIRED AFTER BUILDING IS PLUMBED AND PRIOR TO LOADING STRUCTURE. GROUT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 6000 PSI. GROUT SHALL BE NONMETALLIC & NONSHRINK, COMPLYING WITH ASTM C 1107. SEE STRUCTURAL STEEL NOTES FOR ADDITIONAL INFORMATION.
4. IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A WATER-REDUCING ADDITIVE CONFORMING TO ASTM C494, TYPE A, SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX.
5. FLY ASH MAY BE USED AS A ONE TO ONE REPLACEMENT FOR THE CEMENT UP TO 20% OF THE TOTAL CEMENT CONTENT AS LONG AS THE AMBIENT TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT.
6. DO NOT AIR ENTRAIN CONCRETE TO BE USED FOR FLOORS WITH A TROWELED FINISH. DO NOT ALLOW ENTRAPPED AIR CONTENT TO EXCEED 3%.
7. FINE AND COARSE AGGREGATE SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR GRADING SIZE, PARTICLE DISTRIBUTION, DELETERIOUS CONTENT, SOUNDNESS AND CHERT. COURSE AGGREGATES SHALL MEET THE REQUIREMENTS OF ASTM C33 TABLE 3 CLASS 4S. FINE AGGREGATE MAY BE NATURAL OR MANUFACTURED SAND FROM QUARRIES OR PITS WHICH HAVE GIVEN SATISFACTORY SERVICE PERFORMANCE WHEN EXPOSED IN A SIMILAR MANNER TO THAT TO BE ENCOUNTERED.
8. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. LAP ALL SPLICES IN ACCORDANCE WITH THE REBAR SPLICE & DEVELOPMENT LENGTH SCHEDULE. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064, GRADE 65. LAP WWR AT LEAST TWO CROSS WIRES PLUS AN ADDITIONAL 2" INCHES ON SIDES AND ENDS (CROSS WIRE SPACING + 2"). MAINTAIN WIRE 1" TO 2" BELOW TOP SURFACE OF SLABS.
9. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL REINFORCING, UNLESS NOTED OTHERWISE.
10. COLD-WEATHER PLACEMENT SHALL COMPLY WITH ACI 306R.
11. HOT-WEATHER PLACEMENT SHALL COMPLY WITH ACI 305R.
12. CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING TOLERANCES:
    A. SPECIFIED OVERALL VALUE F_f=38 F_l=25 (MINIMUM LOCAL VALUE F_f=19 F_l=13)
    B. FLOOR TOLERANCE MEASUREMENTS SHALL BE MADE BY THE CONTRACTOR WITHIN 24 HOURS AFTER SLAB INSTALLATION AND BEFORE SAW CUTTING OF CONTROL JOINTS. IN ALL CASES, TOLERANCE MEASUREMENTS SHALL PRECEDE THE REMOVAL OF SHORES AND FORMS. RESULTS OF ALL FLOOR PROFILE TESTS SHALL BE PROVIDED TO THE CONTRACTOR WITHIN 48 HOURS OF EACH SLAB INSTALLATION. SECTIONS OF FLOOR NOT MEETING THE MINIMUM TOLERANCES HEREIN SHALL BE REMOVED OR REPAIRED AT THE DIRECTION OF THE ARCHITECT/ENGINEER.

CONCRETE MIX DESIGN

CONCRETE USES	COMPRESSIVE STRENGTH	W/C RATIO	SLUMP	AIR	MAX AGGREGATE SIZE
FOOTINGS	3000 PSI	0.52	4" ± 1"	≤ 7%	1½"
INTERIOR SLABS ON GRADE, ELEVATED STRUCTURAL SLABS	3500 PSI	0.50	4" ± 1"	≤ 3%	1½"
EXTERIOR USES, SIDEWALKS, EXTERIOR SLABS ON GRADE	4000 PSI	0.45	4" ± 1"	6% ±1%	¾"

NOTES:
1. SEE CONCRETE NOTES FOR ADDITIONAL INFORMATION.
2. DESIGN CONCRETE COMPRESSIVE STRENGTH SHALL MEASURED AT 28 DAYS.
3. NORMAL WEIGHT CONCRETE SHALL HAVE A DENSITY OF 150 PCF.
4. LIGHTWEIGHT CONCRETE SHALL HAVE A DENSITY OF 113 PCF.
5. WATER/CEMENT RATIO (W/C) IS MEASURED BY WEIGHT.
6. FOR CONDITIONS OUTSIDE THE SCOPE OF THIS SCHEDULE, CONTACT ENGINEER FOR ADDITIONAL GUIDANCE.

REBAR SPLICE & DEVELOPMENT LENGTHS

DEVELOPMENT LENGTHS (IN)

BAR SIZE	STRAIGHT DOWEL TENSION[1] DEVELOPMENT LENGTHS						COMPRESSION DEVELOPMENT LENGTHS
	F'_c = 3000 PSI		F'_c = 3500 PSI		F'_c = 4000 PSI		F'_c = 3000 PSI to 4000 PSI
	TOP	OTHER	TOP	OTHER	TOP	OTHER	ALL
#3	22	17	20	16	19	15	9
#4	29	22	27	21	25	19	11
#5	36	28	33	26	31	24	14
#6	43	33	40	31	37	29	17

LAP SPLICE LENGTHS (IN)

BAR SIZE	TENSION SPLICE LENGTHS[2] (CLASS B)						COMPRESSION SPLICE LENGTHS
	F'_c = 3000 PSI		F'_c = 3500 PSI		F'_c = 4000 PSI		F'_c = 3000 PSI to 4000 PSI
	TOP	OTHER	TOP	OTHER	TOP	OTHER	ALL
#3	28	22	26	20	24	19	12
#4	37	29	35	27	32	25	15
#5	47	36	43	33	40	31	19
#6	56	43	52	40	48	37	23

NOTES:
1. LAP SPLICE LENGTHS ARE BASED ON THE ASSUMPTION THAT BARS ARE IN CONTACT ALONG THE FULL LENGTH OF THE SPLICE.
2. TOP BARS ARE HORIZONTAL BARS PLACED WITH AT LEAST 12" OF FRESH CONCRETE PLACED UNDER THE BARS.
3. NORMAL WEIGHT CONCRETE & UNCOATED BARS ARE ASSUMED.
4. CLEAR SPACING OF BARS BEING DEVELOPED MUST BE AT LEAST 2 TIMES THE BAR DIAMETER. CLEAR COVER MUST BE AT LEAST THE BAR DIAMETER.

MASONRY NOTES

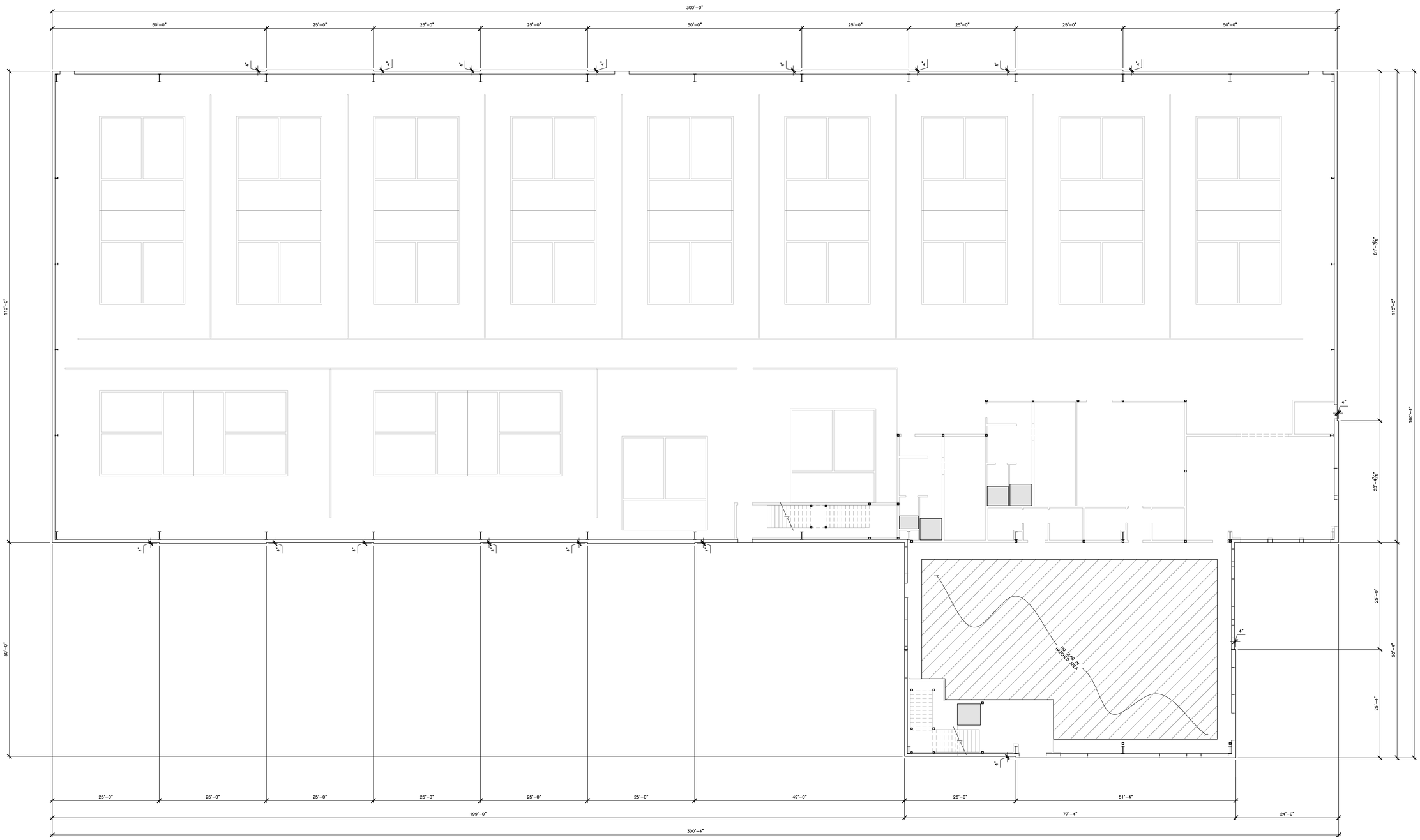
1. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402) AND TO THE "SPECIFICATION FOR MASONRY STRUCTURES" (TMS 602).
2. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY (F'_m) USED IN DESIGN IS 2000 PSI.
3. CONCRETE MASONRY UNITS (CMU) SHALL COMPLY WITH ASTM C90, WITH A NET AREA COMPRESSIVE STRENGTH OF 2000 PSI. ALL BLOCKS SHALL BE LIGHTWEIGHT. SIZES AS INDICATED ON PLANS.
4. MORTAR SHALL COMPLY WITH ASTM C270. ABOVE GRADE APPLICATIONS SHALL BE TYPE 'S' WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 1800 PSI. MIX MORTAR FROM TYPE I PORTLAND CEMENT (TYPE III MAY BE USED FOR COLD WEATHER CONSTRUCTION) (ASTM C150), HYDRATED LIME (ASTM C207), AND AGGREGATE (ASTM C144).
5. ALL CELLS BELOW GRADE AND ALL CELLS TO RECEIVE STEEL REINFORCING SHALL BE GROUTED SOLID. ADDITIONAL CELLS TO RECEIVE GROUT ARE SHOWN IN DETAILS AND NOTES.
6. CONCRETE GROUT USED TO FILL VOIDS SHALL COMPLY WITH ASTM C476 AND SHALL BE AS FOLLOWS (DO NOT USE MORTAR):
    A. USE MINIMUM ⅝ BAGS OF CEMENT PER CUBIC YARD.
    B. MAXIMUM WATER/CEMENT RATIO BY WEIGHT SHALL BE 0.54.
    C. WATER-REDUCING ADMIXTURE WHICH SHALL BE USED TO PROVIDE SUFFICIENT FLOWABILITY TO READILY FILL VOIDS WITH A REASONABLE AMOUNT OF RODDING. NO ADDITIONAL WATER WILL BE ALLOWED TO IMPROVE FLOWABILITY.
    D. AGGREGATE SHALL BE WELL-GRADED, ⅜" SIZE AND SMALLER.
    E. ALTERNATE MIX DESIGNS WILL BE CONSIDERED IF SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL. ALTERNATE MIX DESIGNS MUST SHOW SUFFICIENT FLOWABILITY CHARACTERISTICS AND 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI PER ASTM TEST METHOD C1019.
7. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. LAP ALL SPLICES 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
8. WHERE VERTICAL REINFORCING INTERSECTS HORIZONTAL REINFORCING, BOTH SHALL BE CONTINUOUS.
9. HORIZONTAL REINFORCING SHALL BE CONTINUOUS AT CORNERS WITH BEND OR SHALL HAVE CORNER BARS WITH EACH LEG EQUAL TO REQUIRED LAP LENGTH.
10. VERTICAL DOWEL BARS SHALL BE PLACED INTO FOUNDATION AT ALL LOCATIONS WHERE VERTICAL REINFORCING IS SPECIFIED FOR WALLS OR COLUMNS.
11. HORIZONTAL BOND BEAMS SHALL BE PROVIDED AT TOP AND BOTTOM OF WALL OPENINGS, AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AND AT THE TOP OF PARAPETS OR WALLS AND AS CALLED FOR IN PLANS AND NOTES. BOND BEAMS SHALL BE REINFORCED WITH (2) CONTINUOUS #5 BARS. BOND BEAMS ABOVE AND BELOW WALL OPENINGS SHALL EXTEND 2'-0" MINIMUM BEYOND THE FACE OF OPENING, UNLESS NOTED OTHERWISE. BOND BEAMS SHALL NOT EXCEED A VERTICAL SPACING OF 6'-0" OC, UNLESS NOTED OTHERWISE.
12. MAXIMUM HEIGHT OF GROUT POUR SHALL NOT EXCEED 4'-0" UNLESS CLEANOUT AND INSPECTION HOLE IS PROVIDED AT BOTTOM OF VOID.
13. GROUT AND REINFORCE WITH (1) #5 BAR ALL VERTICAL CORNER CELLS, ALL VERTICAL END CELLS, ONE CELL EACH SIDE OF CONTROL JOINTS, ONE CELL EACH SIDE OF ALL OPENINGS, AND SHALL NOT EXCEED A HORIZONTAL SPACING OF 4'-0" OC ALONG WALL SECTIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
14. TYPICAL MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCEMENT WITH 9-GAUGE TRUSS OR LADDER TYPE JOINT REINFORCEMENT EQUAL TO "HB 220 LADDER MESH" AT 16" ON CENTER. PRE-FABRICATED CORNER OR TEE PIECES SHALL BE USED AT ALL INTERSECTING WALLS AND CORNERS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING GRADES, UNLESS NOTED OTHERWISE.
    - WIDE FLANGE: ASTM A992 — F_y = 50 KSI
    - HSS (SQ & RECT): ASTM A500 Gr. C — F_y = 50 KSI
    - HSS (RND): ASTM A500 Gr. C — F_y = 50 KSI
    - CHANNEL (C & MC): ASTM A992 — F_y = 50 KSI
    - ANGLE: ASTM A572 — F_y = 50 KSI
    - PLATE & BAR: ASTM A572 — F_y = 50 KSI
2. ACI, AISC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.
3. STRUCTURAL BOLTS SHALL BE ASTM F3125, GRADE A325. ALL ANCHOR RODS SHALL BE AS NOTED IN THE ANCHOR ROD SCHEDULE.
4. ALL WELDS SHALL BE E70XX, UNLESS NOTED OTHERWISE OR UNLESS REQUIRED FOR SPECIAL CONNECTIONS.
5. WELDING OF STRUCTURAL MEMBERS SHALL BE PERFORMED BY CERTIFIED WELDERS AND WELDING SHALL BE IN ACCORDANCE WITH STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY (AWS D1.1).
6. DETAILS OUTLINE BASIC CONNECTION TYPES. NON-COMPOSITE BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS NOT DETAILED IN DRAWINGS SHALL BE SIZED BY STEEL DETAILER AS STANDARD AISC, TYPE 2, BEARING CONNECTIONS CAPABLE OF SUPPORTING REACTIONS DEVELOPED BY MAXIMUM UNIFORM LOAD CAPACITY ON A SIMPLE SPAN FOR BEAM TO BEAM SPAN GIVEN.
7. ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHTENED JOINTS UNLESS NOTED OTHERWISE.
8. ALL STRUCTURAL STEEL CONSTRUCTION SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIAL INSPECTION NOTES.
9. ALL STRUCTURAL STEEL SHALL BE FINISHED PER ARCHITECTURAL FINISH REQUIREMENTS. IN LIEU OF ARCHITECTURAL FINISH INFORMATION, THE FOLLOWING SHALL APPLY, UNLESS NOTED OTHERWISE.
    - THE MINIMUM SURFACE PREPARATION REQUIREMENTS FOR ALL STRUCTURAL STEEL SHALL BE EITHER SSPC SP-2 OR SP-3.
    - IMMEDIATELY AFTER SURFACE PREPARATION, APPLY PRIMER ACCORDING TO MANUFACTURER'S INSTRUCTION AND AT A RATE RECOMMENDED BY SSPC TO PROVIDE A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES.

STEEL JOIST NOTES

1. STEEL JOISTS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS FOR THE LOADS AND SPANS SHOWN ON THE PLANS WITH A MAXIMUM LIVE LOAD DEFLECTION OF L/360. PROVIDE THE RECOMMENDED CAMBER FOR JOIST SPAN. DO NOT WELD EXTENDED BOTTOM CHORDS OF JOIST UNLESS INDICATED ON THE SHOP DRAWINGS AND UNTIL ALL DEAD LOAD IS IN PLACE, UNLESS NOTED OTHERWISE.
2. HORIZONTAL BRIDGING AND CROSS BRIDGING SHOWN ON THE PLANS IS FOR REFERENCE ONLY. JOIST MANUFACTURER SHALL DESIGN AND SUPPLY ALL BRIDGING REQUIRED.
3. ANY CONCENTRATED LOADS REQUIRED FOR TYPICAL CONSTRUCTION SUCH AS CEILINGS, PIPE HANGERS, MECHANICAL DUCTWORK, ELECTRICAL FIXTURES, ETC. THAT MUST BE ATTACHED TO JOISTS SHALL BE DONE SO AT PANEL POINTS OF JOIST. IF SUCH LOADS MUST BE ATTACHED TO TOP OR BOTTOM CHORD OF JOIST BETWEEN PANEL POINTS, THE LOAD SHALL NOT EXCEED 100 POUNDS. IF AFOREMENTIONED LOAD EXCEEDS 100 POUNDS CONTACT ENGINEER OF RECORD. DO NOT SUSPEND LOADS OVER 250 POUNDS FROM THE JOIST UNLESS EQUIPMENT IS SHOWN AND NOTED IN THE PLANS AND STRUCTURAL PROVISIONS HAVE BEEN MADE FOR SUPPORT.
4. THE GENERAL CONTRACTOR SHALL COORDINATE JOIST SPACING WITH DECK PENETRATIONS FOR MECHANICAL EQUIPMENT OR OTHER ITEMS IN THIS CONTRACT WHICH MAY CONFLICT WITH JOIST SPACING SHOWN. JOIST MAY BE SHIFTED TO MISS REQUIRED PENETRATIONS. ISOLATED SPACES (NO MORE THAN 2 ADJACENT SPACES) MAY BE INCREASED OR DECREASED BY A MAXIMUM OF 6". ANY ADJUSTMENTS MUST BE SHOWN ON THE JOIST SHOP DRAWINGS.
5. PROVIDE AN "H" FRAME BELOW ALL MOUNTED MECHANICAL EQUIPMENT PER DETAILS. IF NO DET



SLAB LAYOUT PLAN

1/8" = 1'-0"

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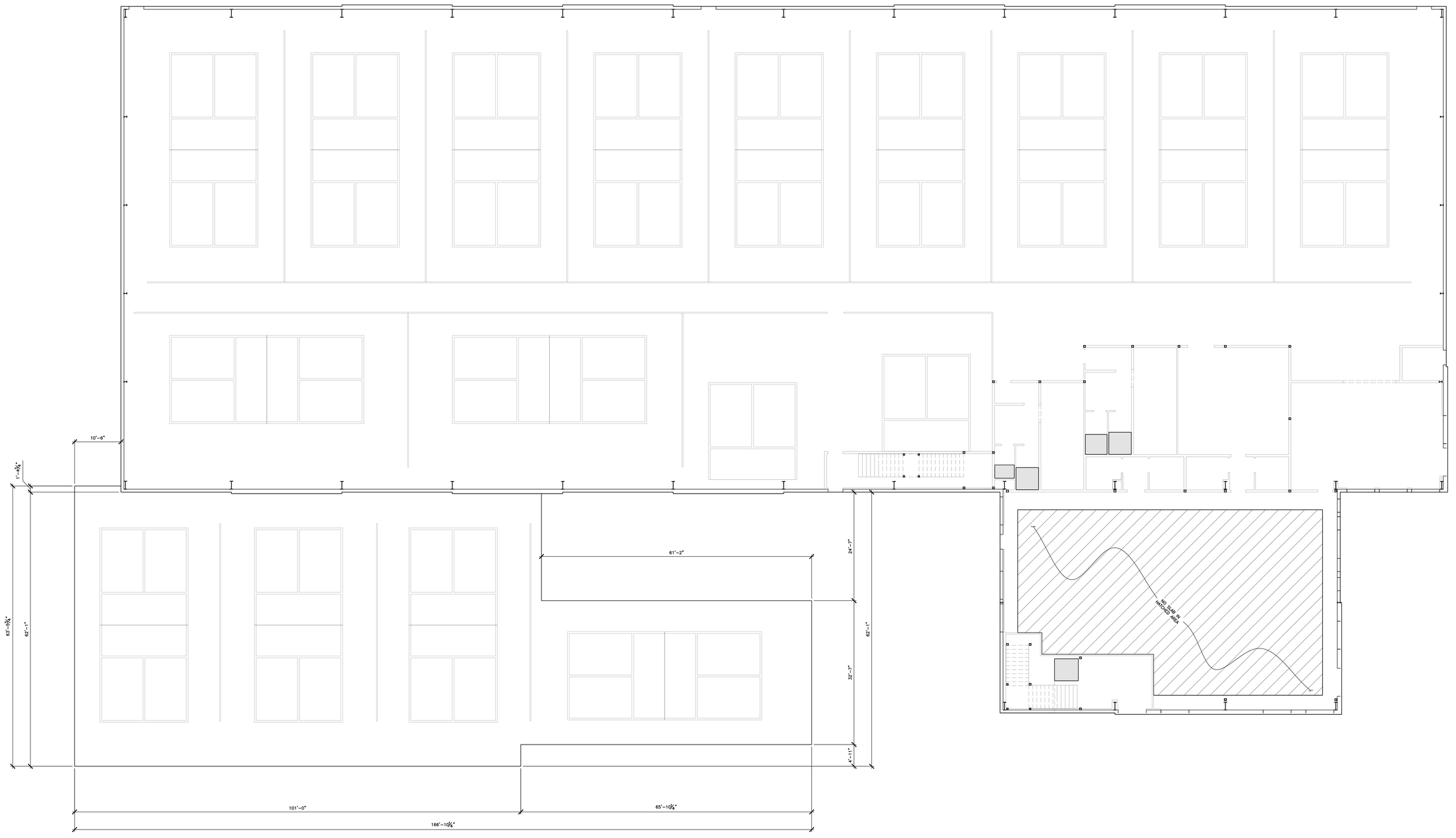
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SLAB LAYOUT PLAN

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EXTERIOR SLAB LAYOUT PLAN

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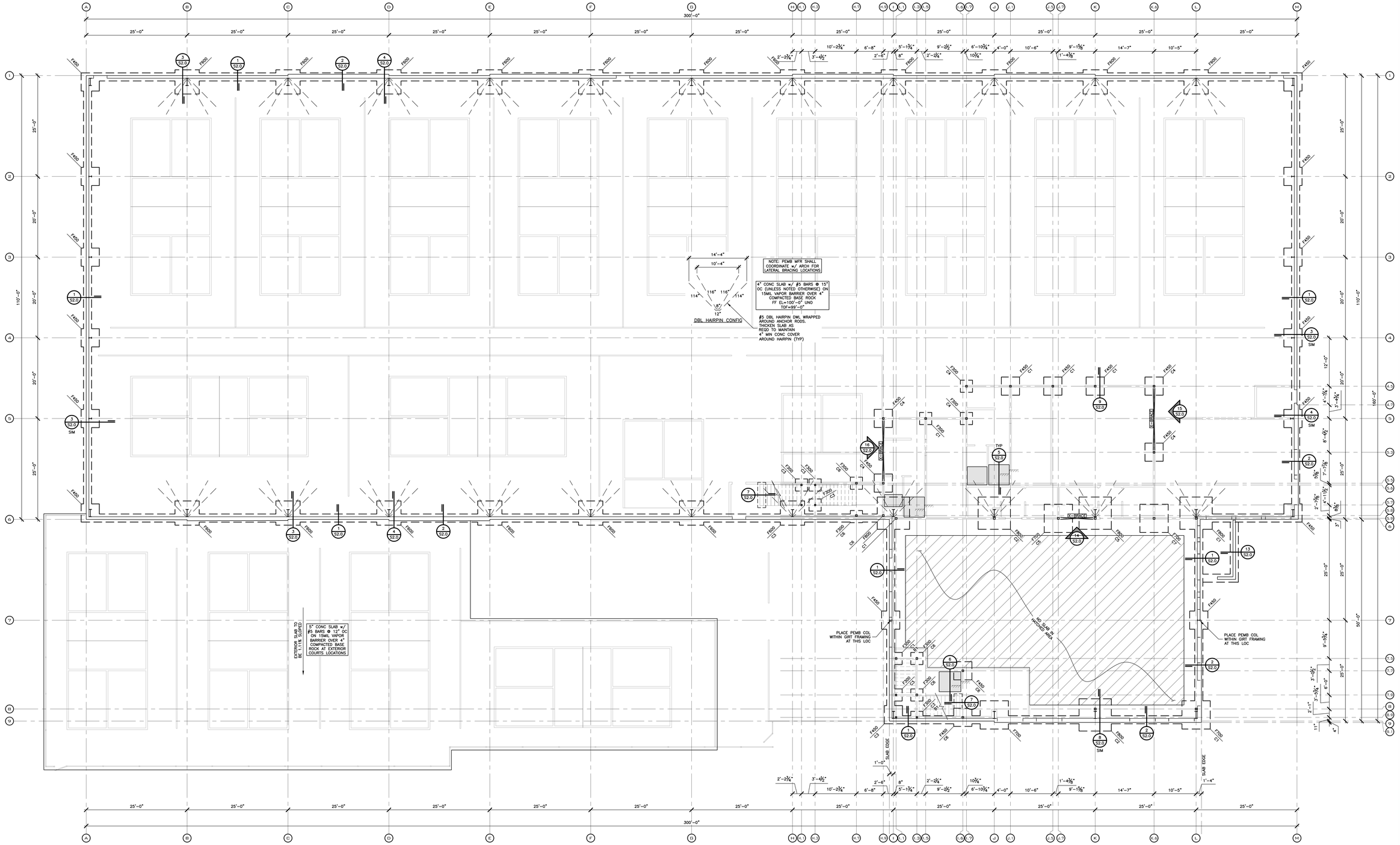
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EXTERIOR SLAB LAYOUT PLAN

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FOUNDATION PLAN

1/8" = 1'-0"

ANCHOR ROD SCHEDULE

MARK	DIAMETER	EMBEDMENT[2]	PROJECTION[4]	GRADE[7]	CIP or EPOXY[6,9]
PEMB MANFRAME	BY PEMB	24"	4"	BY PEMB	CAST-IN-PLACE
PEMB ENDWALL	BY PEMB	18"	4"	BY PEMB	CAST-IN-PLACE
A1	¾"	10"	4"	ASTM F1554 Gr. 36	CAST-IN-PLACE

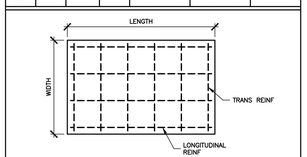
ANCHOR ROD

NTS

NOTES:
1. SEE STRUCTURAL STEEL NOTES FOR ADDITIONAL INFORMATION.
2. EMBEDMENT DEPTH IS MEASURED FROM COLUMN BEARING ELEVATION, UNLESS NOTED OTHERWISE.
3. ALTERNATIVELY, NUT AT BOTTOM OF EMBEDMENT MAY BE SECURED WITH A DOUBLE JAM NUT OR BY FOULING THE THREADS ABOVE AND BELOW.
4. PROJECTION IS MEASURED FROM COLUMN BEARING ELEVATION, UNLESS NOTED OTHERWISE.
5. SEE DETAILS FOR GROUT THICKNESS UNDER BASE PLATE, IF APPLICABLE.
6. ALTERNATE FASTENER GRADES MAY BE USED IF APPROVED IN WRITING BY THE ENGINEER.
7. RODS NOTED "CAST-IN-PLACE" SHALL NOT BE INSTALLED WITH EPOXY, UNLESS APPROVED IN WRITING BY THE ENGINEER.
8. SEE "RECOMMENDED SIZES FOR WASHERS AND ANCHOR ROD HOLES IN BASE PLATES" TABLE IN THE AISC STEEL CONSTRUCTION MANUAL FOR RECOMMENDED WASHER SIZES.

FOOTING SCHEDULE

MARK	SIZE			REINFORCEMENT		TOF ELEV.
	WIDTH	LENGTH	THICK	LONGITUDINAL	TRANSVERSE	
F300	3'-0"	3'-0"	1'-0"	(4) #5 BARS BOT	(4) #5 BARS BOT	99'-0"
F450	4'-6"	4'-6"	1'-0"	(5) #5 BARS BOT	(5) #5 BARS BOT	99'-0"
F600	6'-0"	6'-0"	2'-0"	(7) #5 BARS T&B	(7) #5 BARS T&B	99'-0"
F700	7'-0"	7'-0"	1'-0"	(8) #5 BARS BOT	(8) #5 BARS BOT	99'-0"
F800	8'-0"	8'-0"	2'-0"	(9) #5 BARS T&B	(9) #5 BARS T&B	99'-0"



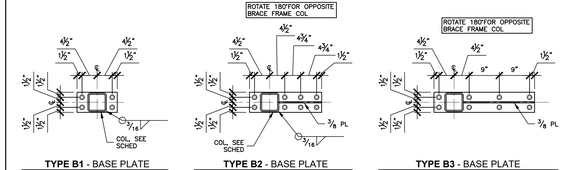
NOTES:
1. SEE CONCRETE NOTES FOR ADDITIONAL INFORMATION.
2. PROVIDE 3" CLEAR DISTANCE BETWEEN ALL REINFORCING STEEL AND EDGES OF FOOTINGS, UNLESS NOTED OTHERWISE.
3. CENTER ALL FOOTINGS UNDER COLUMNS, UNLESS NOTED OTHERWISE.
4. FOR CONDITIONS OUTSIDE THE SCOPE OF THIS SCHEDULE, CONTACT ENGINEER FOR ADDITIONAL GUIDANCE.

STEEL COLUMN & BASE PLATE SCHEDULE

COLUMN				BASE PLATE		ANCHOR ROD MARK (SEE SCHED)	GROUT THICKNESS
MARK	TYPE	BOS	TOS	MARK	THICK		
C1	HSS5x5x¼	99'-½"	113'-½"	B1	¾"	A1	1½"
C2	HSS5½x5½x⅜	99'-½"	113'-½"	B1	¾"	A1	1½"
C3	HSS4x4x¼	99'-½"	SEE ARCH	B1	¾"	A1	1½"
C4	HSS5x5x¼	99'-½"	113'-8"	B3	¾"	A1	1½"
C5	HSS5½x5½x⅜	99'-½"	113'-½"	B2	¾"	A1	1½"
C6	HSS5x5x¼	99'-½"	113'-8"	B1	¾"	A1	1½"
C7	HSS5½x5½x⅜	99'-½"	113'-8"	B1	¾"	A1	1½"

NOTES:
1. SEE ANCHOR ROD SCHEDULE FOR ADDITIONAL INFORMATION.
2. SEE STRUCTURAL STEEL NOTES FOR ADDITIONAL INFORMATION.
3. SEE "RECOMMENDED SIZES FOR WASHERS AND ANCHOR ROD HOLES IN BASE PLATES" TABLE IN THE AISC STEEL CONSTRUCTION MANUAL FOR RECOMMENDED HOLE SIZES BASED ON ANCHOR ROD DIAMETER.
4. SEE CONCRETE NOTES FOR GROUT INFORMATION.
5. SEE PLAN FOR BASE PLATE ORIENTATION.
6. TOP OF STEEL (TOS) REFERS TO UPPERMOST PORTION OF COLUMN WELDMENT (I.E. TOP OF CAP PLATE). BOTTOM OF STEEL (BOS) REFERS TO LOWERMOST PORTION OF COLUMN WELDMENT (I.E. BOTTOM OF BASE PLATE), UNLESS NOTED OTHERWISE.
7. FOR CONDITIONS OUTSIDE THE SCOPE OF THIS SCHEDULE, CONTACT ENGINEER FOR ADDITIONAL GUIDANCE.

BASE PLATE SCHEDULE



TYPE B1 - BASE PLATE ¾" = 1'-0"

TYPE B2 - BASE PLATE ¾" = 1'-0"

TYPE B3 - BASE PLATE ¾" = 1'-0"

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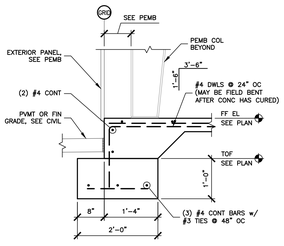
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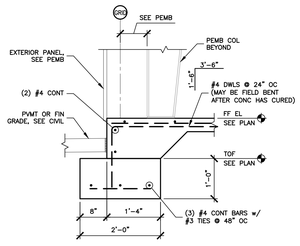
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FOUNDATION PLAN

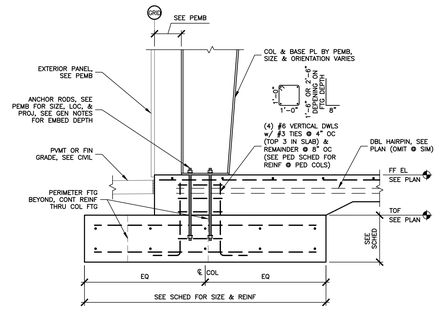
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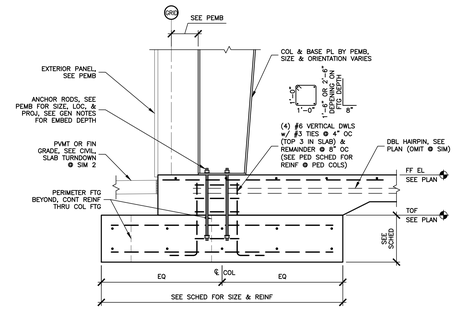
1 PERIMETER FOOTING AT 8" GIRT
3/4"=1'-0"



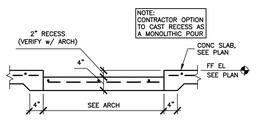
2 PERIMETER FOOTING AT 12" GIRT
3/4"=1'-0"



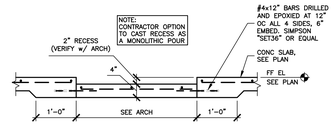
3 PEMB COLUMN FOOTING AT 8" GIRT
3/4"=1'-0"



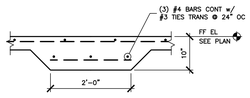
4 PEMB COLUMN FOOTING AT 12" GIRT
3/4"=1'-0"



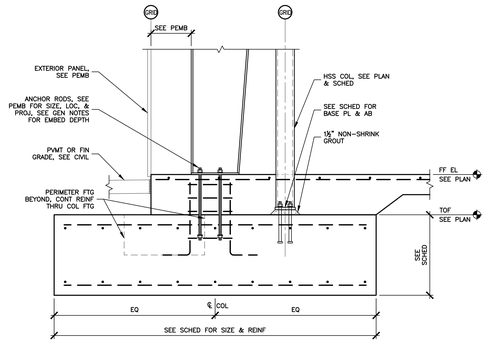
5 RECESSED SHOWER SLAB
3/4"=1'-0"



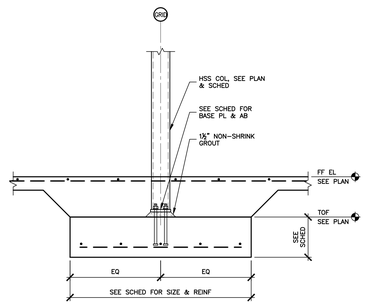
6 RECESSED SLAB AT LIFT
3/4"=1'-0"



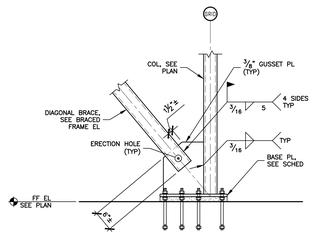
7 TYPICAL THICKENED SLAB
3/4"=1'-0"



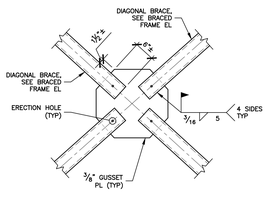
8 PEMB COLUMN FOOTING w/ MEZZANINE COLUMN
3/4"=1'-0"



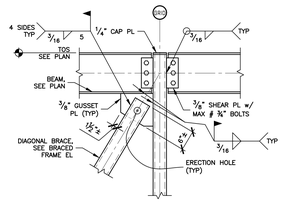
9 TYPICAL MEZZANINE COLUMN
3/4"=1'-0"



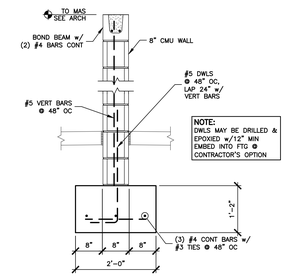
10 BRACE FRAME AT BASE PLATE
NTS



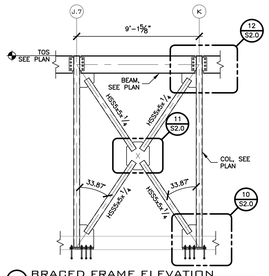
11 BRACE FRAME AT CROSSING
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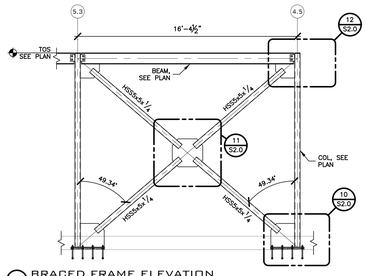
12 BRACE FRAME AT BEAM
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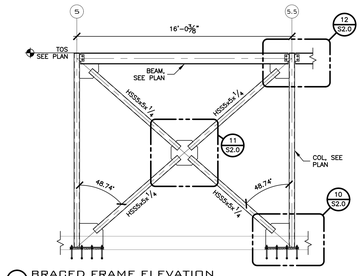
13 HVAC ENCLOSURE SECTION
3/4"=1'-0"



14 BRACED FRAME ELEVATION
1/4"=1'-0"



15 BRACED FRAME ELEVATION
1/4"=1'-0"



16 BRACED FRAME ELEVATION
1/4"=1'-0"

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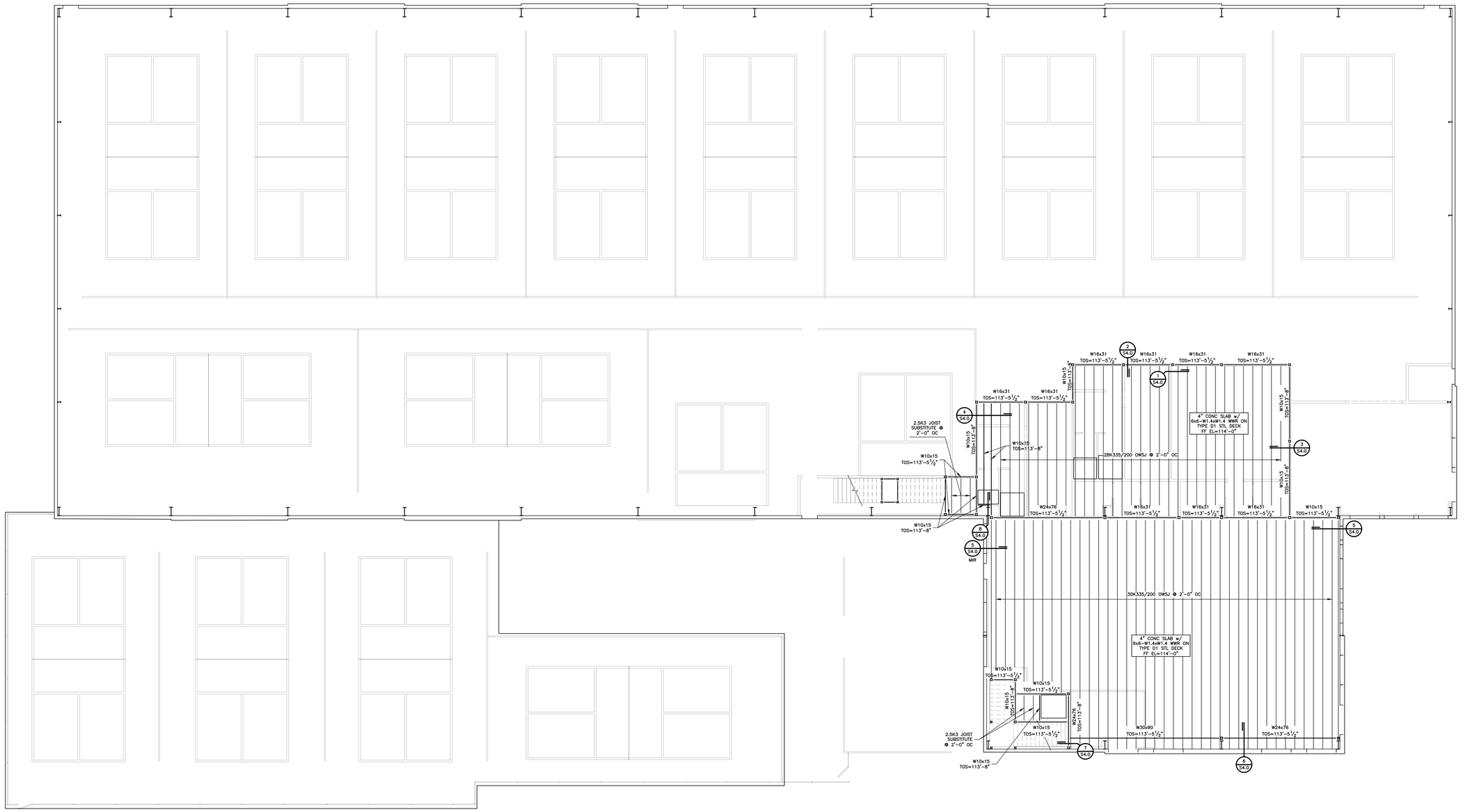
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MEZZANINE FRAMING PLAN

1/8" = 1'-0"

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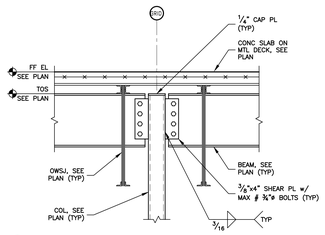
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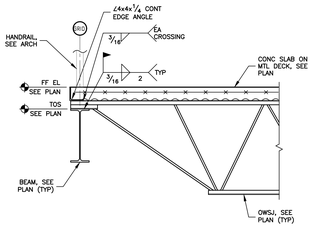
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S3.0
MEZZANINE FRAMING PLAN

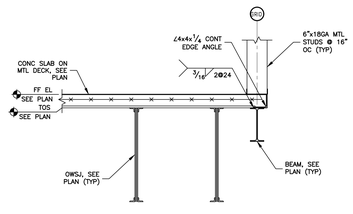
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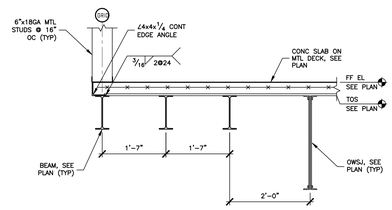
1 TYPICAL BEAM TO COLUMN CONNECTION
3/4"=1'-0"



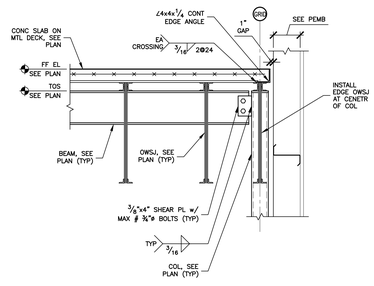
2 TYPICAL JOIST TO BEAM CONNECTION
3/4"=1'-0"



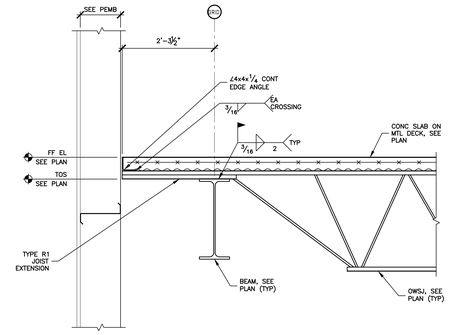
3 TYPICAL BEAM PARALLEL TO JOIST
3/4"=1'-0"



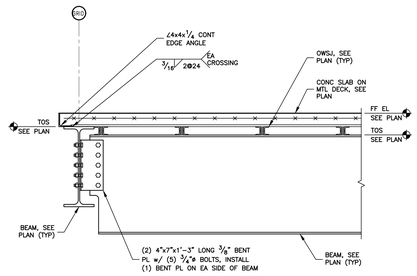
4 SECTION AT GRID H.9
3/4"=1'-0"



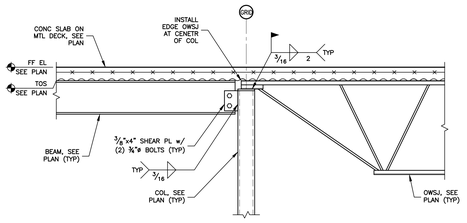
5 SECTION AT MEZZANINE AND PEMB EXTERIOR
3/4"=1'-0"



6 SECTION AT MEZZANINE WITH JOIST EXTENSION
3/4"=1'-0"



7 BEAM TO BEAM CONNECTION
3/4"=1'-0"



8 BEAM TO COLUMN TO JOIST CONNECTION
3/4"=1'-0"

J. TRAVIS MILLER- ENGINEER
ARKANSAS LICENSE #11418

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CERTIFICATE OF AUTHORIZATION
MILLER ENGINEERING
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ARKANSAS ENGINEER

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N MAIN
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ARCHITECTURE | BENTONVILLE, AR 72712
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JOB NO. 14471
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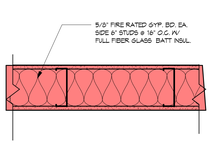
S4.0
MEZZANINE FRAMING DETAILS

MILLER ENGINEERING
3831 S TIMBERCREEK AVE, STE A
SPRINGFIELD, MO 65807-5685
417.866-6664 P
417.866-6667 F
e-mail: info@millerstructures.com
structural • forensic • building enclosure

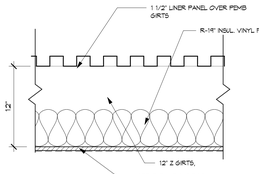
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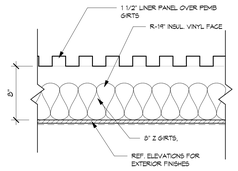
WALL TYPES



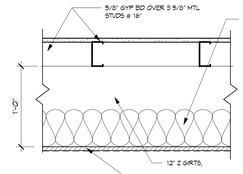
H *INTERIOR WALL U419*
STUDS TO STRUCTURE ABOVE
SCALE: NTS



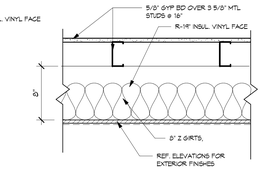
G *EXTERIOR WALL*
STUDS TO STRUCTURE ABOVE
SCALE: NTS



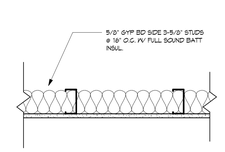
F *EXTERIOR WALL*
STUDS TO STRUCTURE ABOVE
SCALE: NTS



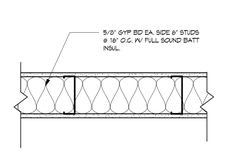
E *EXTERIOR WALL*
STUDS TO STRUCTURE ABOVE
SCALE: NTS



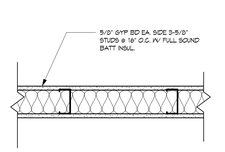
D *EXTERIOR WALL*
STUDS TO STRUCTURE ABOVE
SCALE: NTS



C *INTERIOR WALL*
STUDS TO STRUCTURE ABOVE
SCALE: NTS

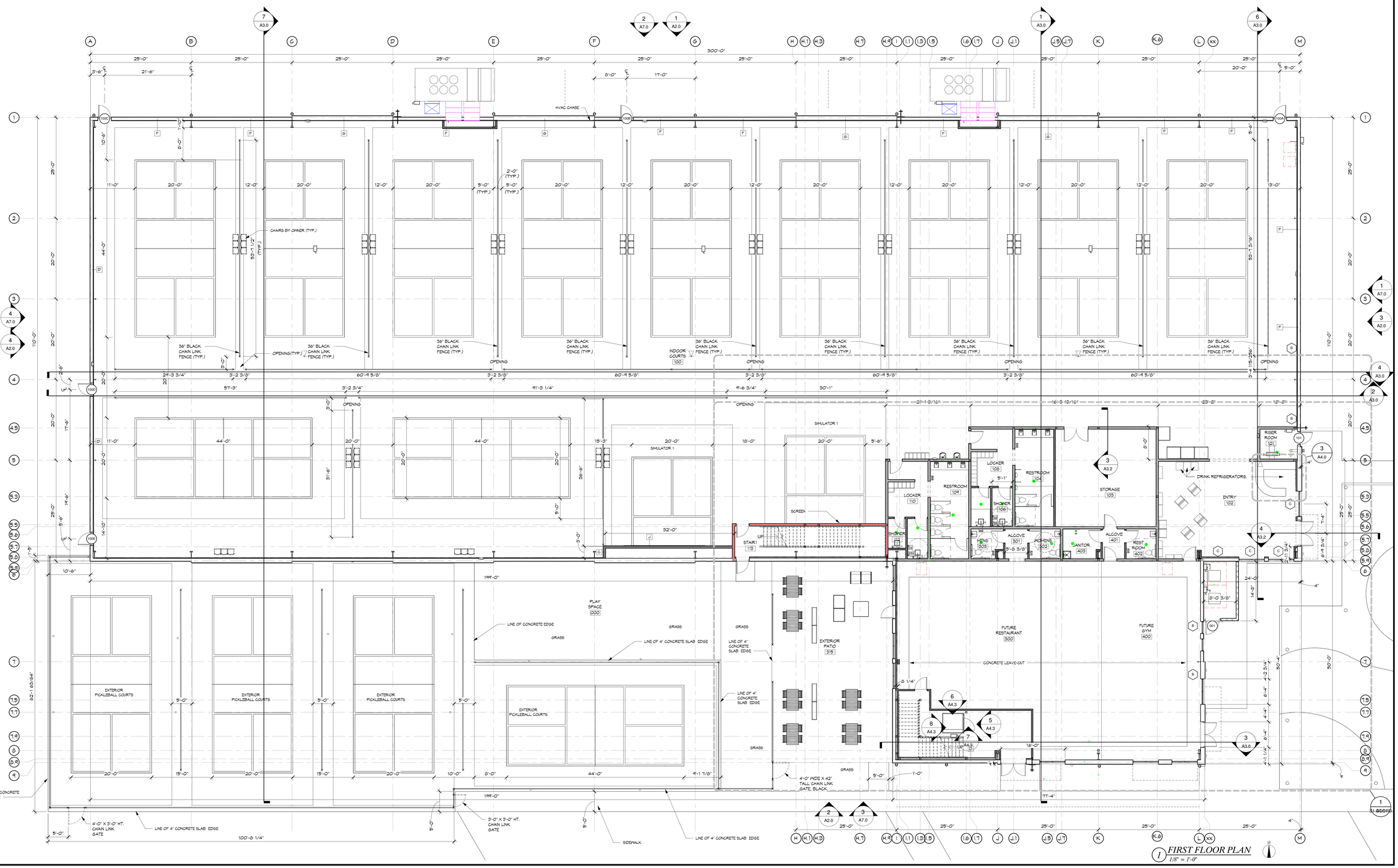


B *INTERIOR WALL*
STUDS TO STRUCTURE ABOVE
SCALE: NTS



A *INTERIOR WALL*
STUDS TO STRUCTURE ABOVE
SCALE: NTS

LEGEND
EXISTING TO REMAIN
NEW WORK



1 *FIRST FLOOR PLAN*
1/8" = 1'-0"

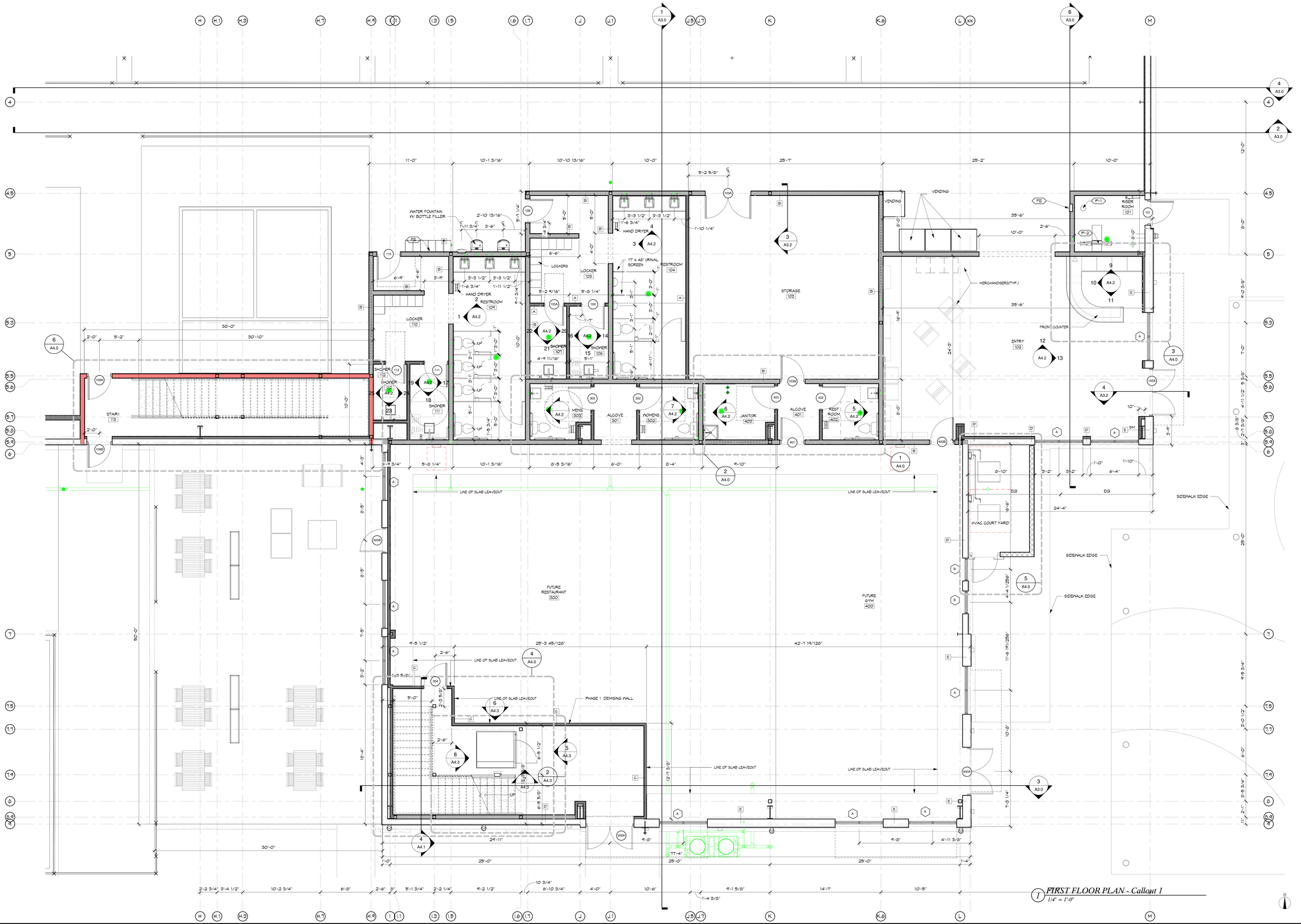
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CENTERTON, AR

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A1.0
FIRST FLOOR PLAN

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A1.1
ENLARGED PLAN

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PRELIMINARY
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OPEN TO BELOW
37'-5 3/8"
20'-7 13/16"
32'-7 1/16"
14'-5 3/8"
34'-5 11/32"
42" GUARD RAIL
OPEN TO BELOW
42" GUARD RAIL
42" GUARD RAIL
42" GUARD RAIL
42" GUARD RAIL
OPEN TO BELOW
8'-0"
16'-1"
38'-6"
MEZZANINE
110
VENDING
VENDING
VENDING
VENDING
24'-4"
16'-3"
MECH
111
TWO STOREY SPACE
UP
STAIR
115
5'-4 1/4"
3'-4 3/4"
6'-6"
10'-0"
24'-4"
PHASE 1 ACCESS DOOR
UNFINISHED
MEZZ
113
PHASE 1 DEMISING WALL
NO GYP. BD THIS SIDE OF WALLS
5'-8 3/4"
SYMMETRY
CBES A5000
THROUGH
49.625" x 91.750"
UP
8'-0"
17'-6"

1 MEZZANINE FLOOR PLAN
1/4" = 1'-0"

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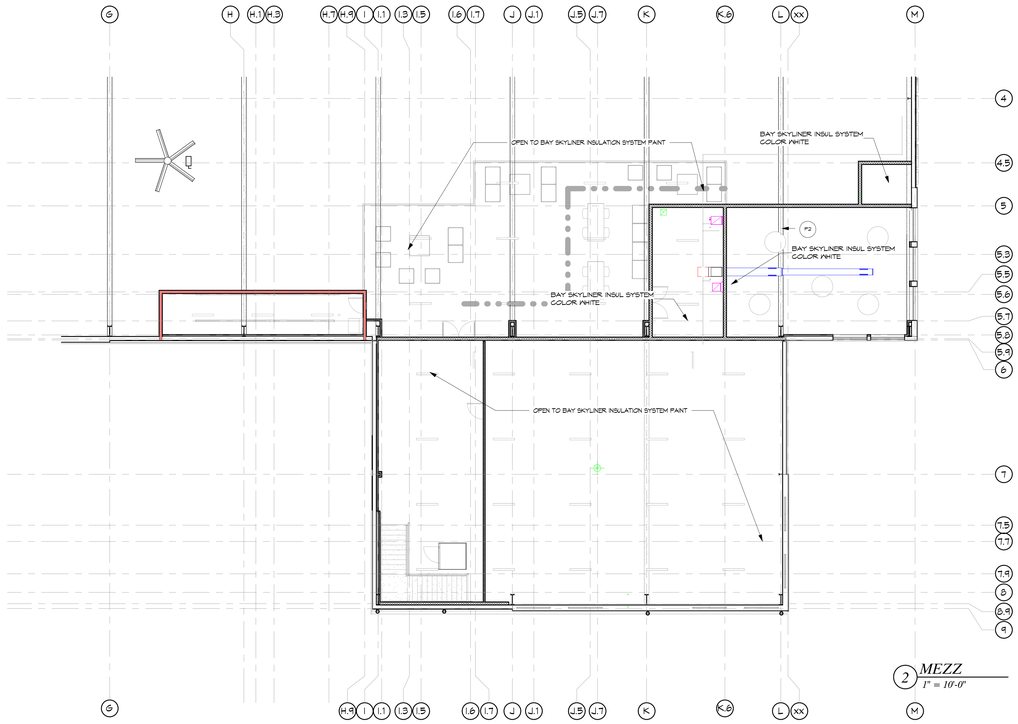
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A1.2
MEZZ PLAN

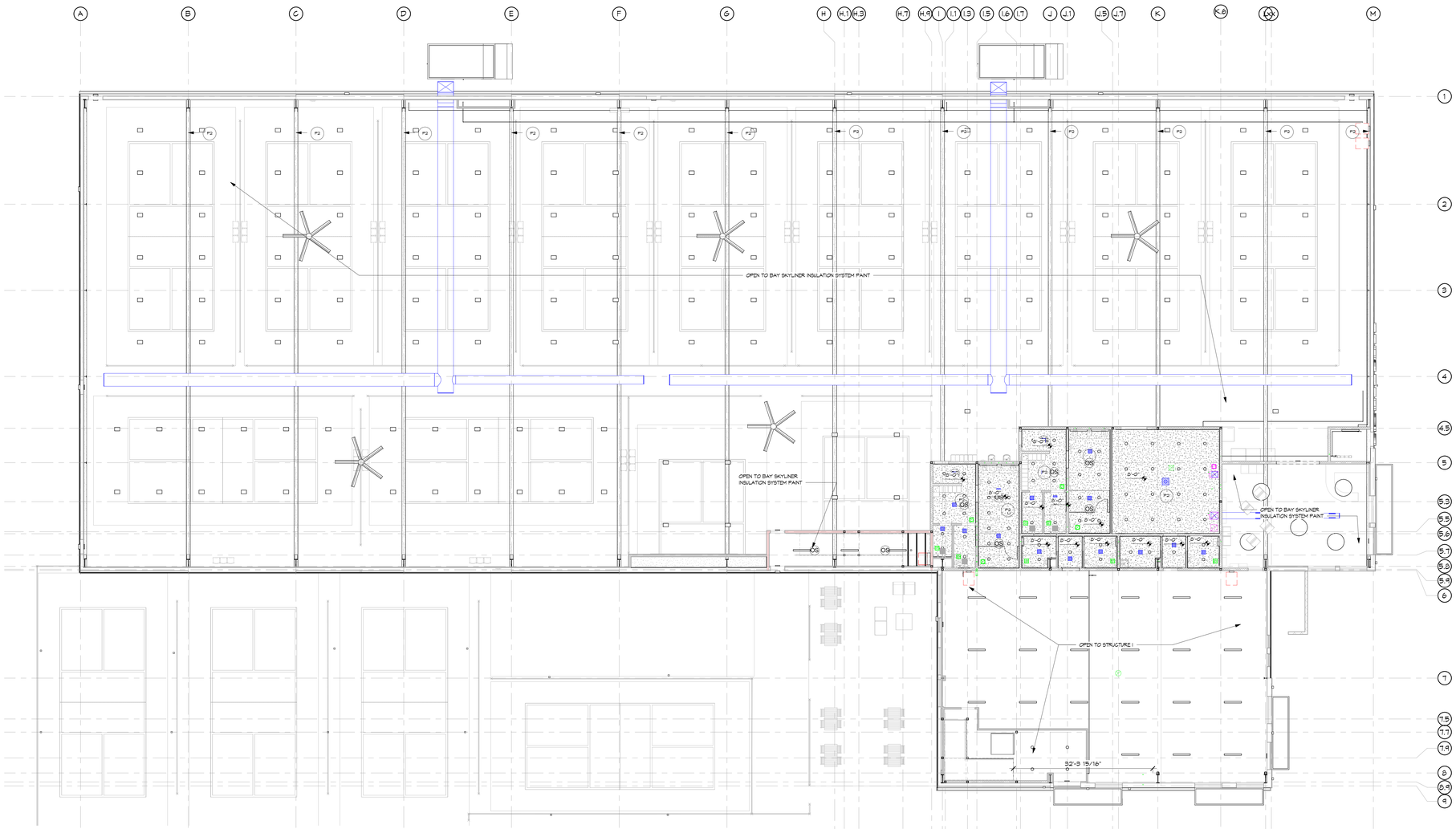
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CEILING LEGEND

GWB



2 MEZZ
1" = 10'-0"



1 FIRST FLOOR RCP
1" = 10'-0"

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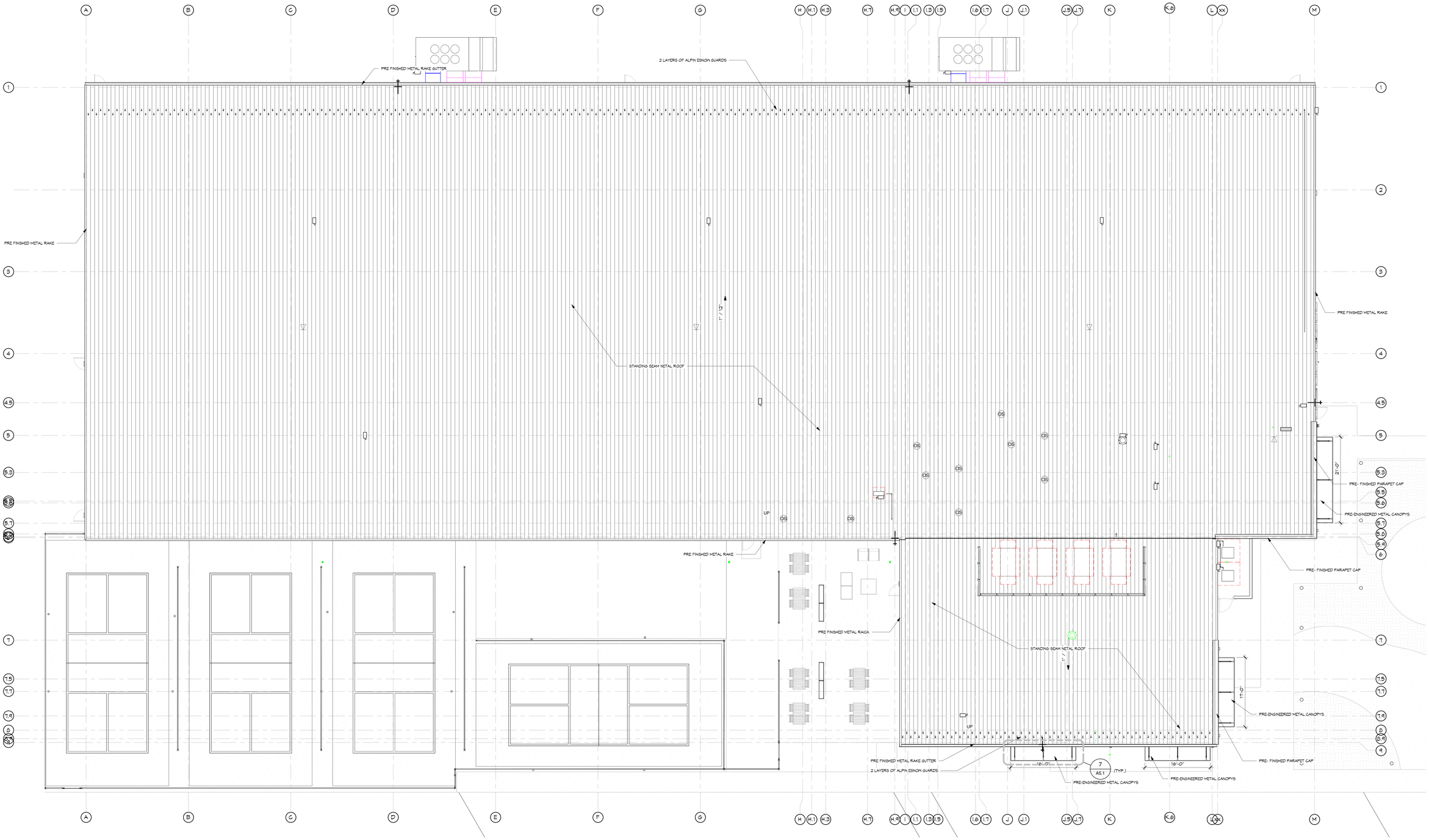
A1.3
RCP

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GENERAL ROOF NOTES

1. INSTALL PER MANUFACTURER RECOMMENDATIONS.
2. INSTALL ICE AND WATER SHIELDS IN ALL VALLEYS.

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

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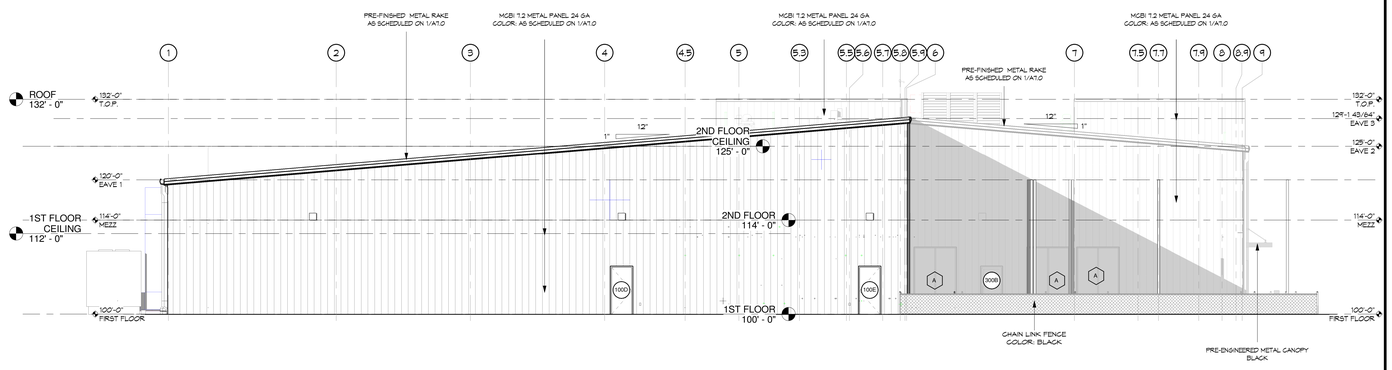
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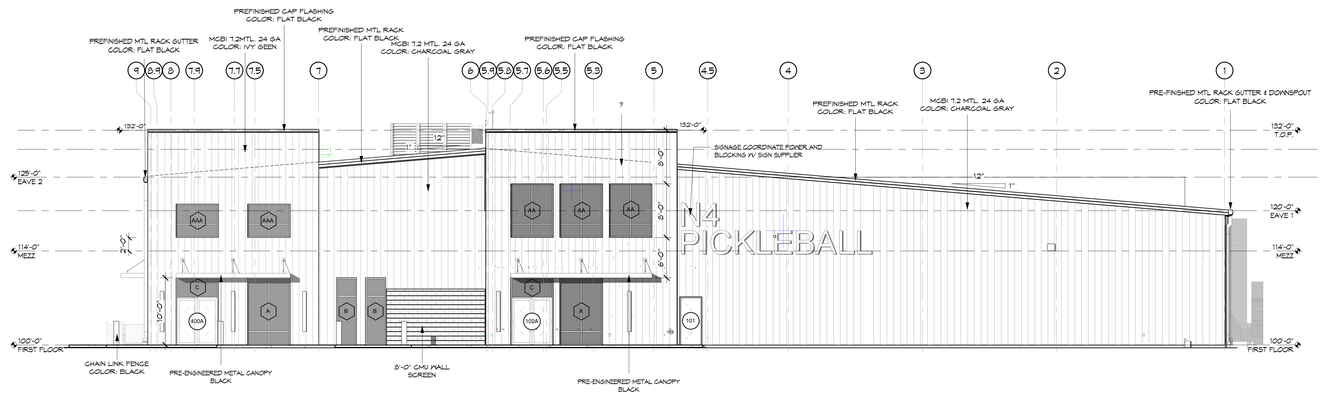
A1.4
ROOF PLAN

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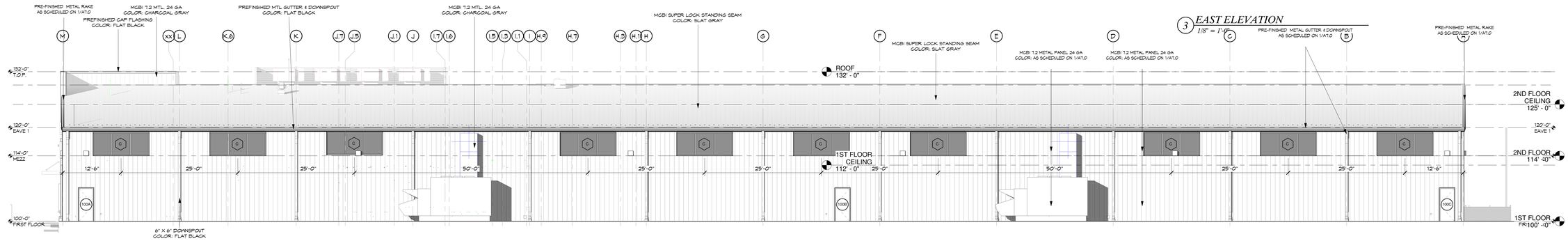
PRELIMINARY
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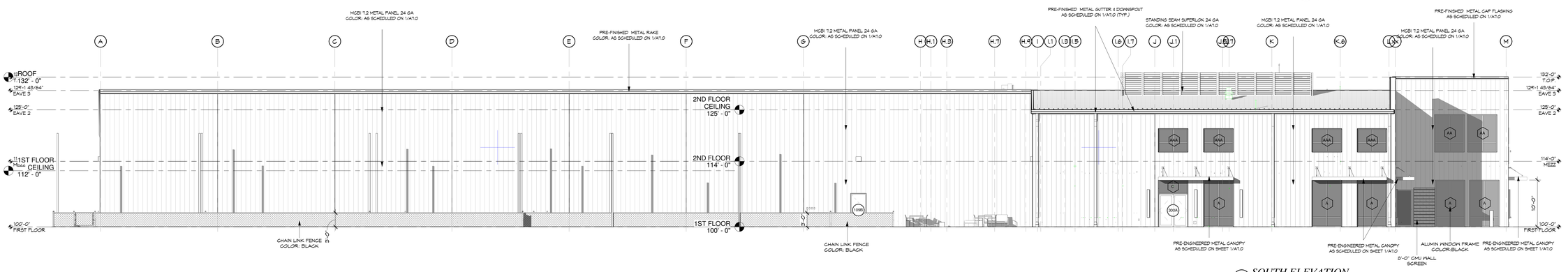
4 *WEST ELEVATION*
1/8" = 1'-0"



3 *EAST ELEVATION*
1/8" = 1'-0"



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



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

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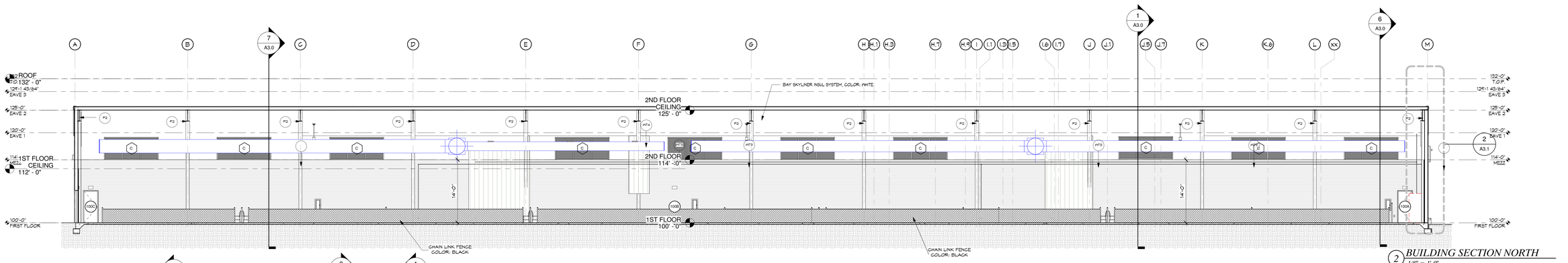
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CENTERTON, AR

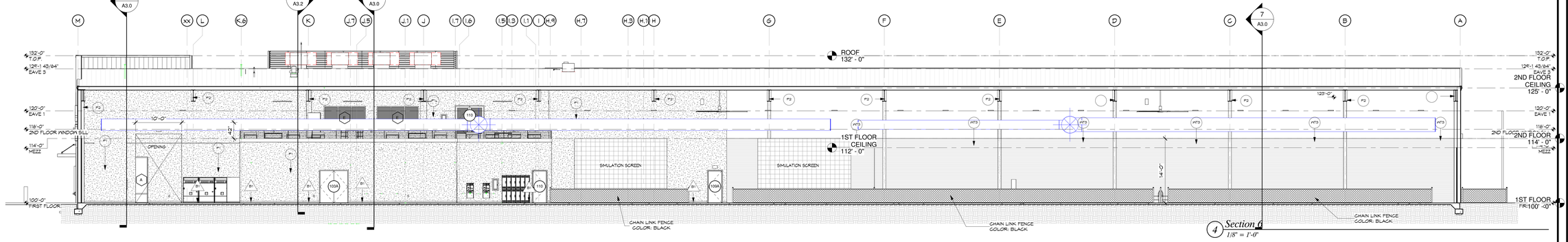
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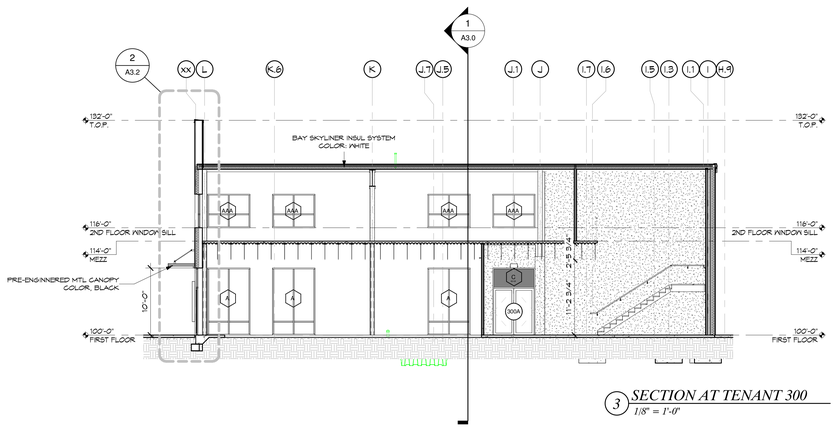
A2.0
EXTERIOR ELEVATIONS

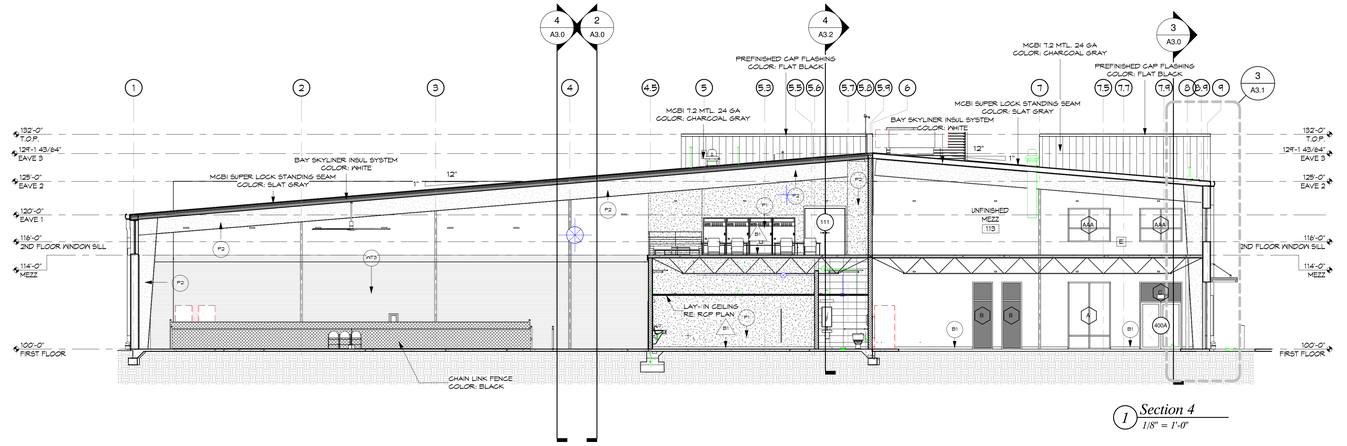
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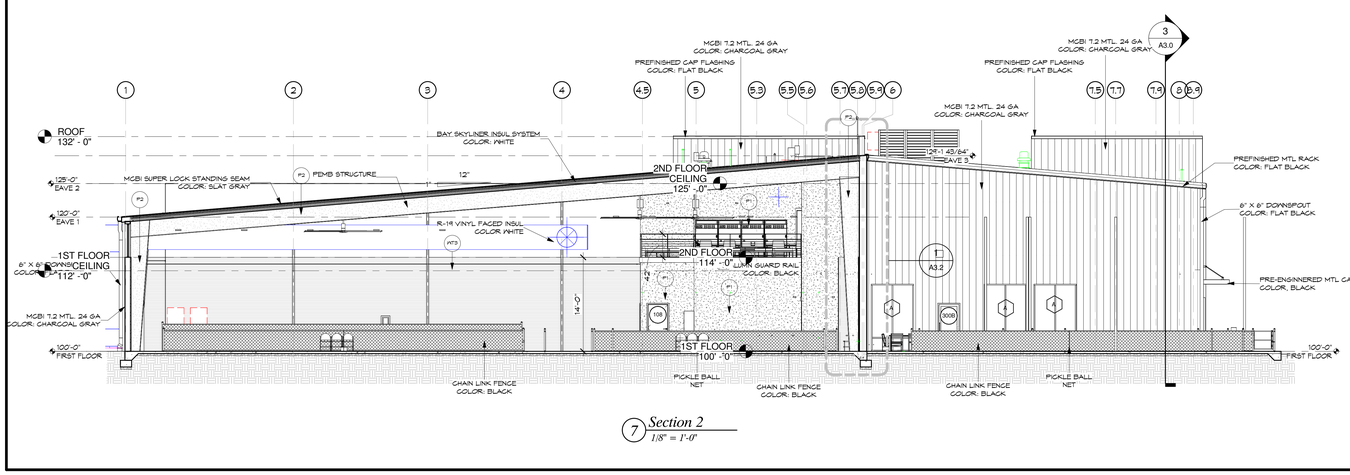
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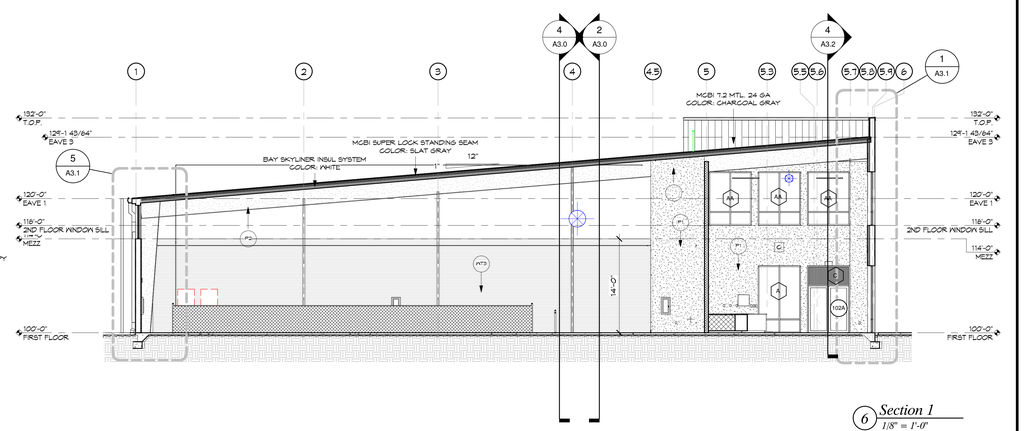












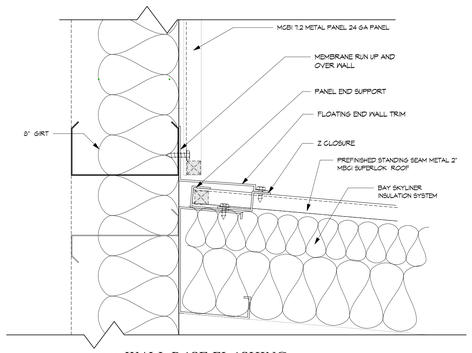
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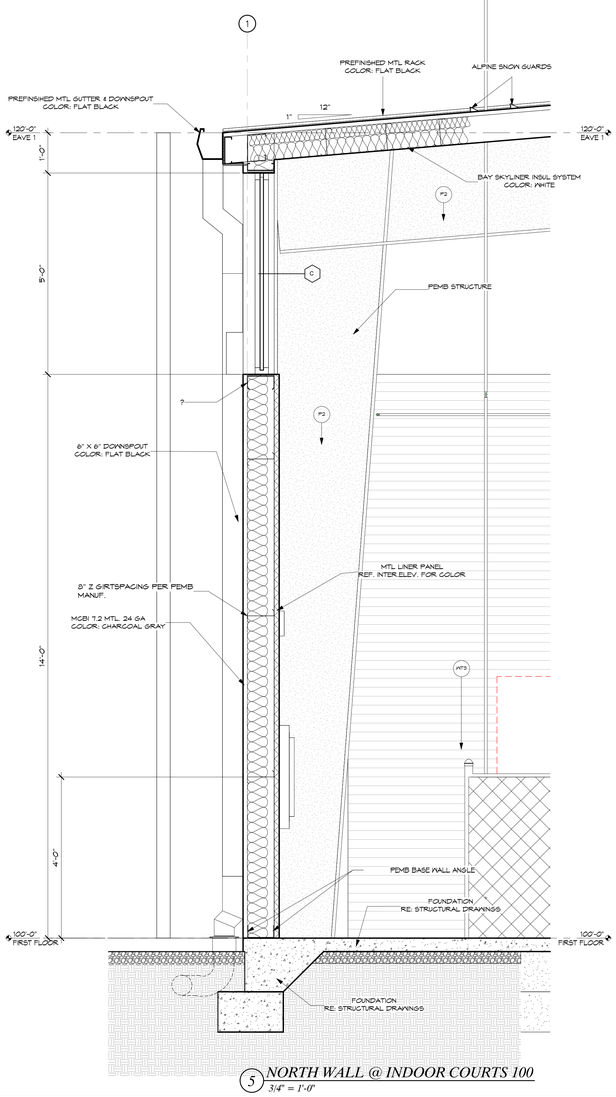
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A3.0
BUILDING SECTIONS

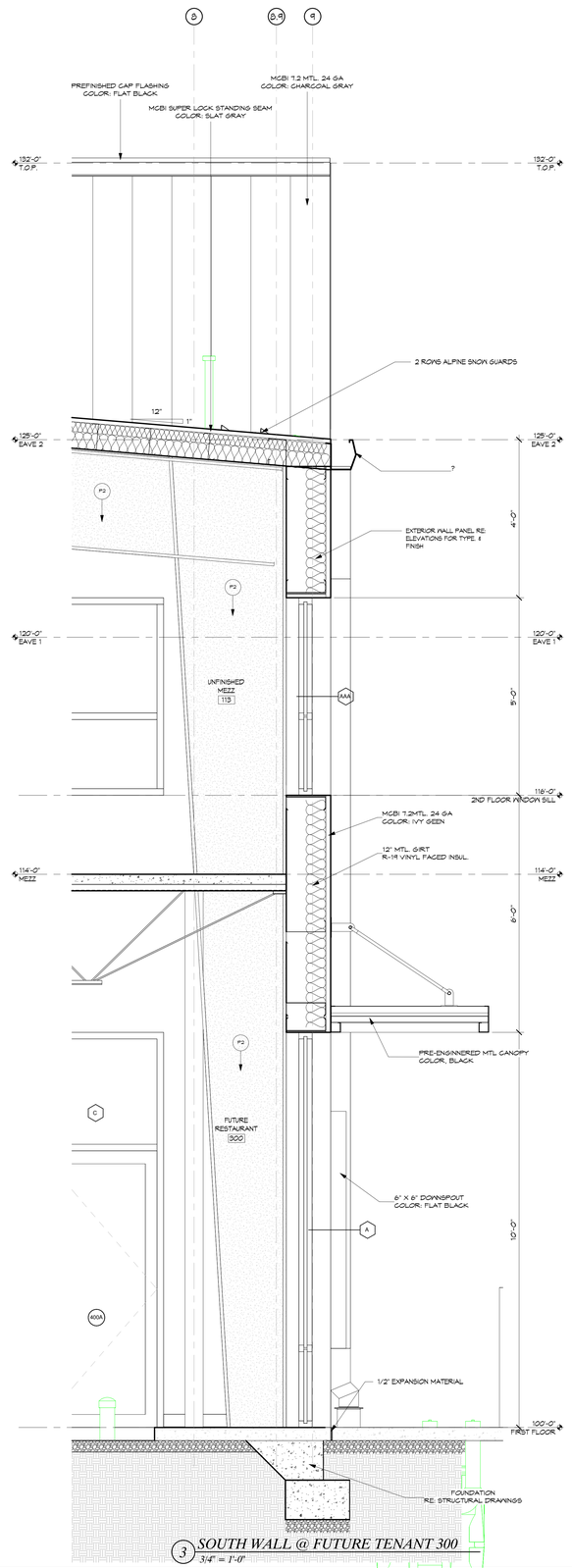
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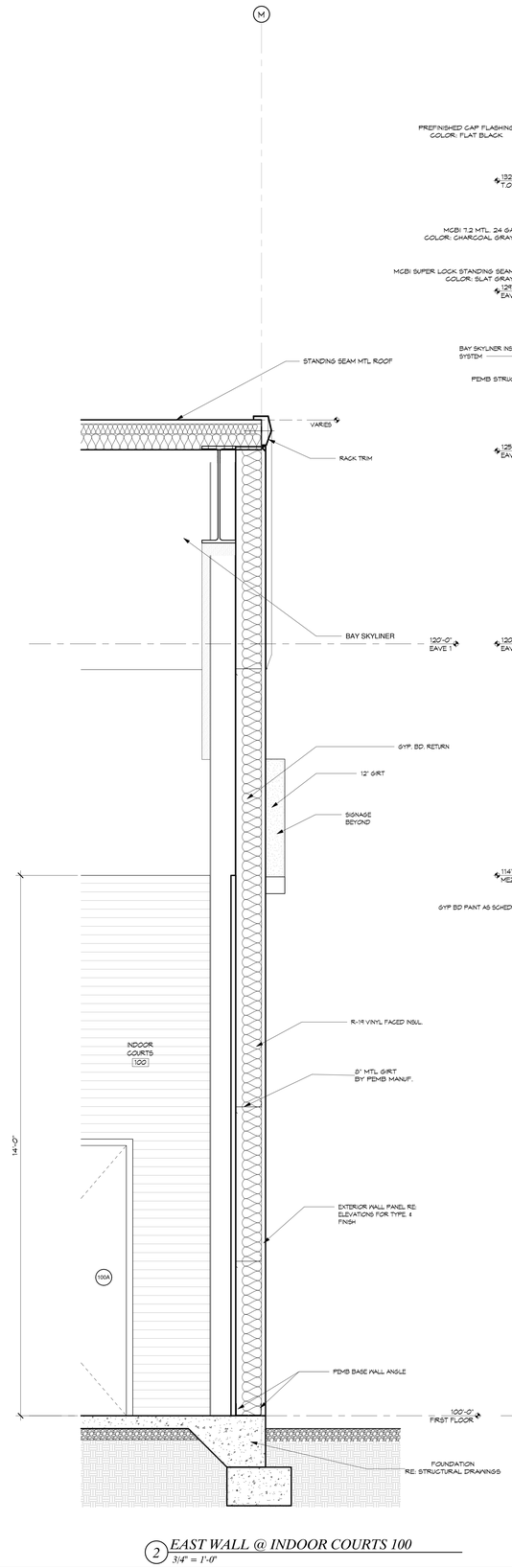
4 *WALL BASE FLASHING*
3" = 1'-0"



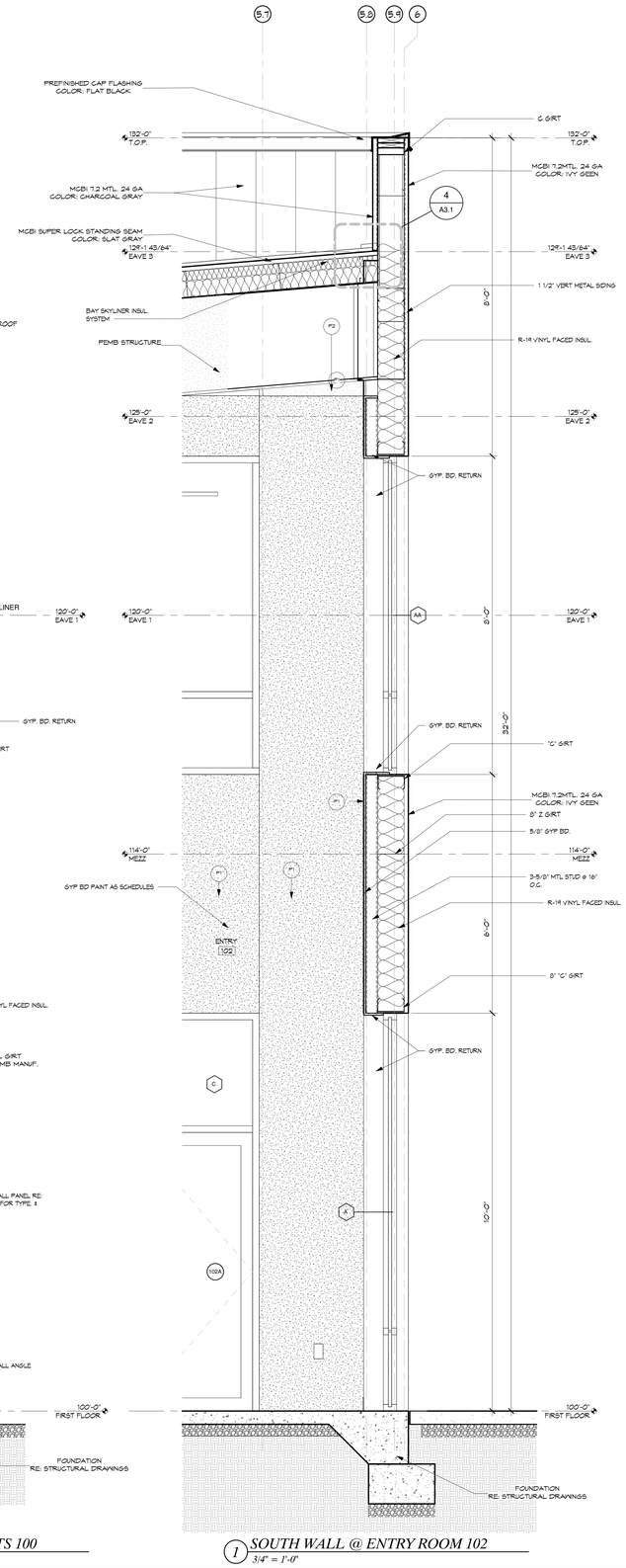
5 *NORTH WALL @ INDOOR COURTS 100*
3/4" = 1'-0"



3 *SOUTH WALL @ FUTURE TENANT 300*
3/4" = 1'-0"



2 *EAST WALL @ INDOOR COURTS 100*
3/4" = 1'-0"



1 *SOUTH WALL @ ENTRY ROOM 102*
3/4" = 1'-0"

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A3.1
WALL SECTIONS

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PREFINISHED CAP FLASHING
COLOR: FLAT BLACK

132'-0" T.O.P.

MCBI 7.2 MTL. 24 GA
COLOR: CHARCOAL GRAY

MCBI SUPER LOCK STANDING SEAM
COLOR: SLAT GRAY

BAY SKYLINER INSUL SYSTEM
COLOR: WHITE

MCBI 7.2MTL. 24 GA
COLOR: IVY GEEN

PEMB STRUCTURE

12" MTL. GIRT
R-14 VINYL FACED INSUL.

LAY- IN CEILING
RE: RCP PLAN

9'-0"

9'-0"

118'-0"
2ND FLOOR WINDOW SILL

MCBI 7.2MTL. 24 GA
COLOR: IVY GEEN

12" MTL. GIRT
R-14 VINYL FACED INSUL.

PRE-ENGINNERED MTL CANOPY
COLOR, BLACK

ENTRY
102

LAY- IN CEILING
RE: RCP PLAN

3-5/8" MTL STUD 16" O.C.

10'-0"

100'-0"
FIRST FLOOR

100'-0"
FIRST FLOOR

FOUNDATION
RE: STRUCTURAL DRAWINGS

4 *Section 18*
3/4" = 1'-0"

MCBI SUPER LOCK STANDING SEAM
COLOR: SLAT GRAY

BAY SKYLINER INSUL SYSTEM
COLOR: WHITE

PEMB STRUCTURE

ALUMN GUARD RAIL
COLOR: BLACK

42"

114'-0"
MEZZ

5" COMPOSITE SLAB

6" MTL. STUD 16" O.C.

9'-0"

STRUCT. JOIST RE:
STRUCTURAL DRAWINGS

2X BLOCKING

GYP. BD LAY-IN CEILING
REF. RCP FOR TYP.

LAY- IN CEILING
RE: RCP PLAN

LAY- IN CEILING
RE: RCP PLAN

SOUND BATT INSULATION

9'-0"

100'-0"
FIRST FLOOR

FOUNDATION
RE: STRUCTURAL DRAWINGS

3 *Section 17*
3/4" = 1'-0"

PREFINISHED CAP FLASHING
COLOR: FLAT BLACK

132'-0" T.O.P.

MCBI 7.2 MTL. 24 GA
COLOR: CHARCOAL GRAY

MCBI 7.2MTL. 24 GA
COLOR: IVY GEEN

8'-8 1/4"

11'-5 3/4"

120'-0"
EAVE 1

32'-0"

UNFINISHED
MEZZ
113

12" MTL. GIRT
R-14 VINYL FACED INSUL.

114'-0"
MEZZ

5" COMPOSITE SLAB

9'-0"

"C" GIRT

1/2" PLYWD

7
A5.1

PRE-ENGINNERED MTL CANOPY
COLOR, BLACK

FUTURE
GYM
400

10'-0"

100'-0"
FIRST FLOOR

FOUNDATION
RE: STRUCTURAL DRAWINGS

2 *SECTION AT TENANT 300 - Callout 1*
3/4" = 1'-0"

5.7 5.6 5.6

PREFINISHED CAP FLASHING
COLOR: FLAT BLACK

MCBI SUPER LOCK STANDING SEAM
COLOR: SLAT GRAY

BAY SKYLINER INSUL SYSTEM
COLOR: WHITE

12"

1"

124'-1 43/64"
EAVE 5

PREFINISHED MTL RACK
COLOR: FLAT BLACK

5" Z GIRTS BY PEMB MANUF.

6
A6.1

12 Z GIRT SPACING BY PEMB MANUF.

12" MTL. GIRT
R-14 VINYL FACED INSUL.

INDOOR
COURTS
100

24'-1 43/64"

MCBI 7.2MTL. 24 GA
COLOR: IVY GEEN

PEMB STRUCTURE

MTL LINER PANEL
REF. INTER.ELEV. FOR COLOR

4
A3.2

PEMB BASE WALL ANGLE

1/2" EXP MATERIAL

100'-0"
FIRST FLOOR

100'-0"
FIRST FLOOR

FOUNDATION
RE: STRUCTURAL DRAWINGS

1 *SOUTH WALL @ INDOOR COURTS #100*
3/4" = 1'-0"

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N MAIN
CENTERTON, AR

DATE
02/25/2026

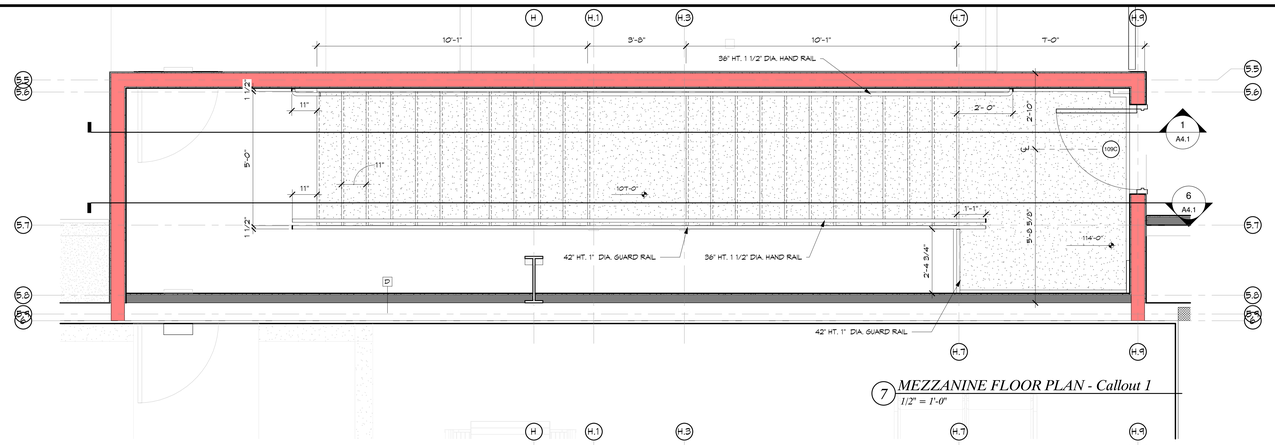
JOB NO.
25132

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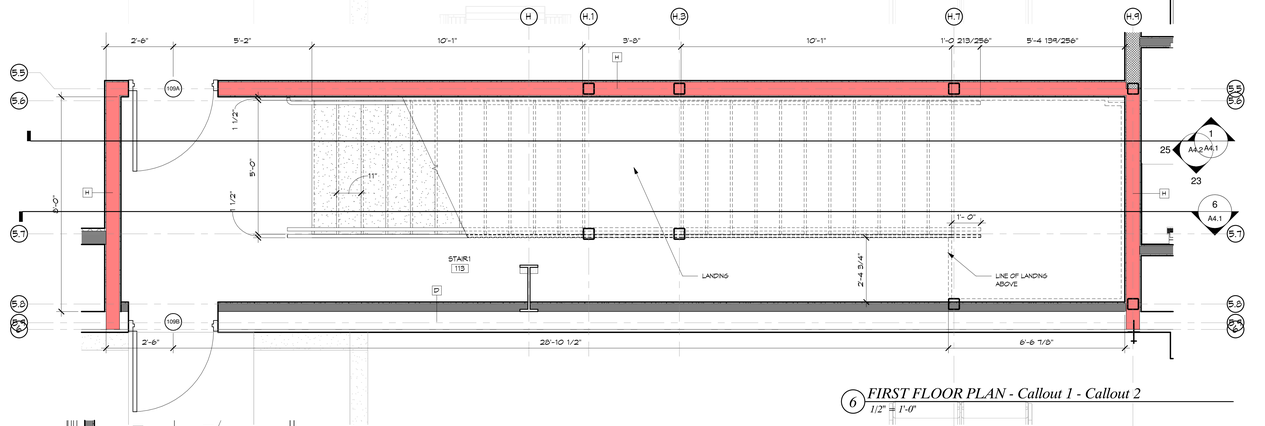
A3.2
WALL SECTIONS

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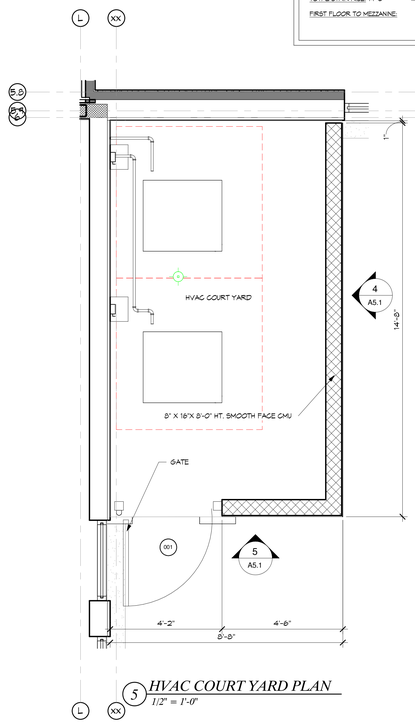
7 *MEZZANINE FLOOR PLAN - Callout 1*
1/2" = 1'-0"



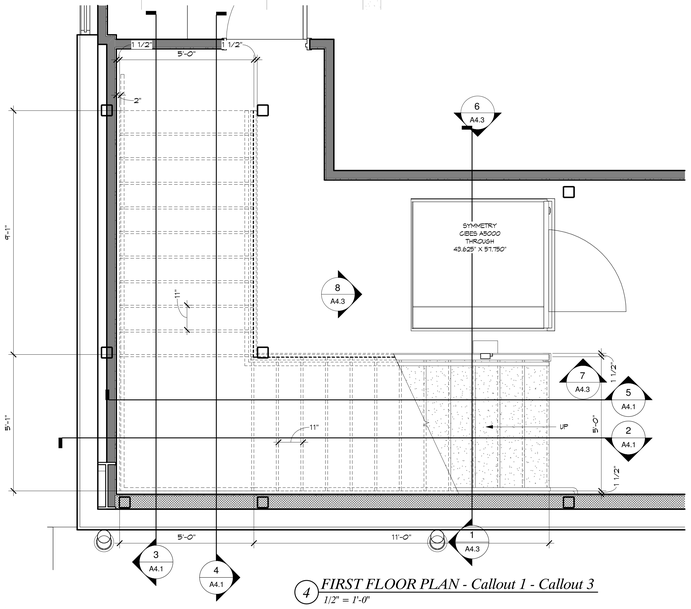
6 *FIRST FLOOR PLAN - Callout 1 - Callout 2*
1/2" = 1'-0"

STAIR NOTES:

TENANT STAIR	
TOTAL STAIR RISE: 14'-0"	TREAD WIDTH (INSIDE TO INSIDE): 5'-0"
FIRST FLOOR TO MEZZANNE:	22 TREADS @ 11" EACH = 14'-0" 24 RISERS @ 7" EACH 1 LANDING
MEZZANINE STAIR	
TOTAL STAIR RISE: 14'-0"	TREAD WIDTH (INSIDE TO INSIDE): 5'- 0"
FIRST FLOOR TO MEZZANNE:	22 TREADS @ 11" EACH = 14'-0" 24 RISERS @ 7" EACH 1 LANDING

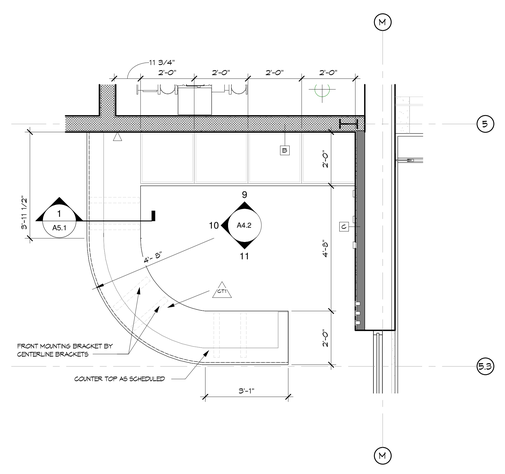


5 *HVAC COURT YARD PLAN*
1/2" = 1'-0"

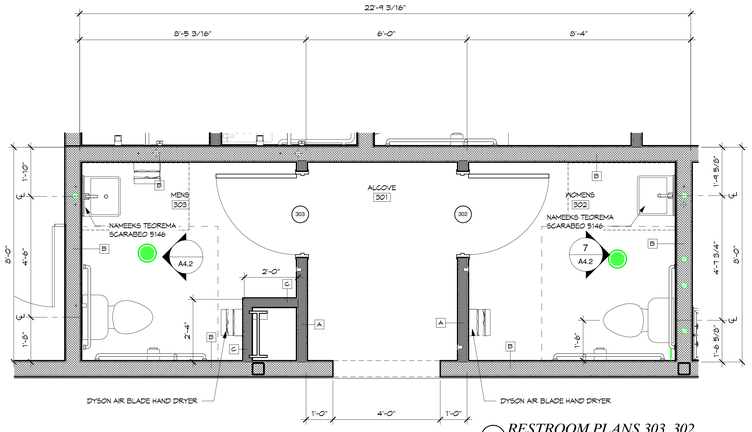


4 *FIRST FLOOR PLAN - Callout 1 - Callout 3*
1/2" = 1'-0"

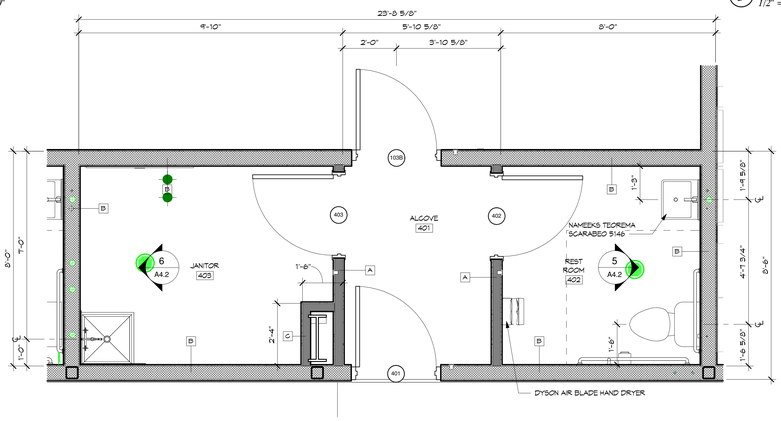
5
A4.3



3 *PB FRONT COUNTER*
1/2" = 1'-0"



2 *RESTROOM PLANS 303, 302*
1/2" = 1'-0"



1 *ENLARGED PLAN RR 402, JAN 403*
1/2" = 1'-0"

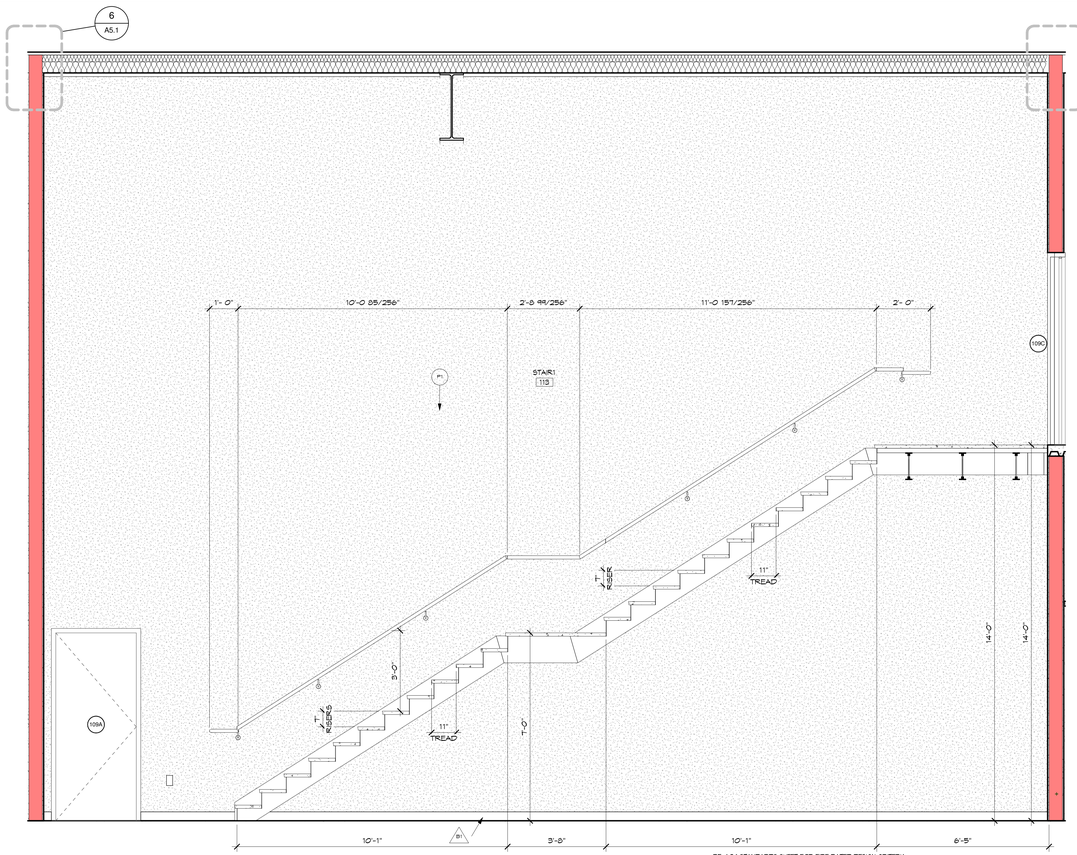
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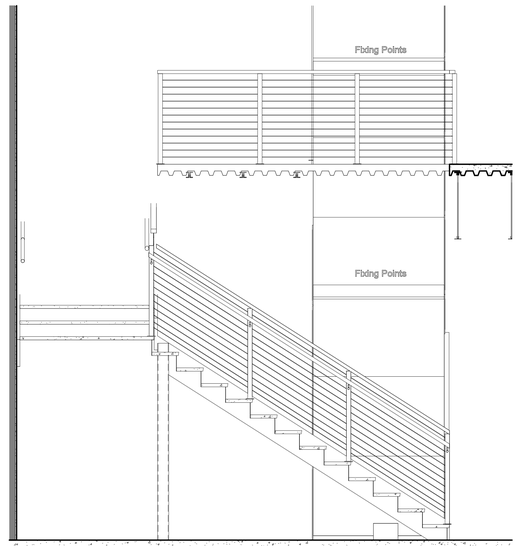
A4.0
ENLARGED PLANS

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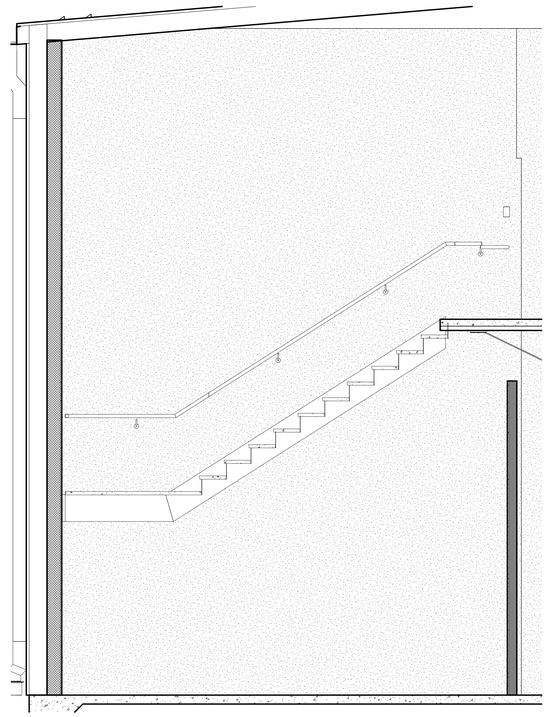


RE: AG.1 STANDARDS SHEET FOR FIRE RATED DESIGN CRITERIA

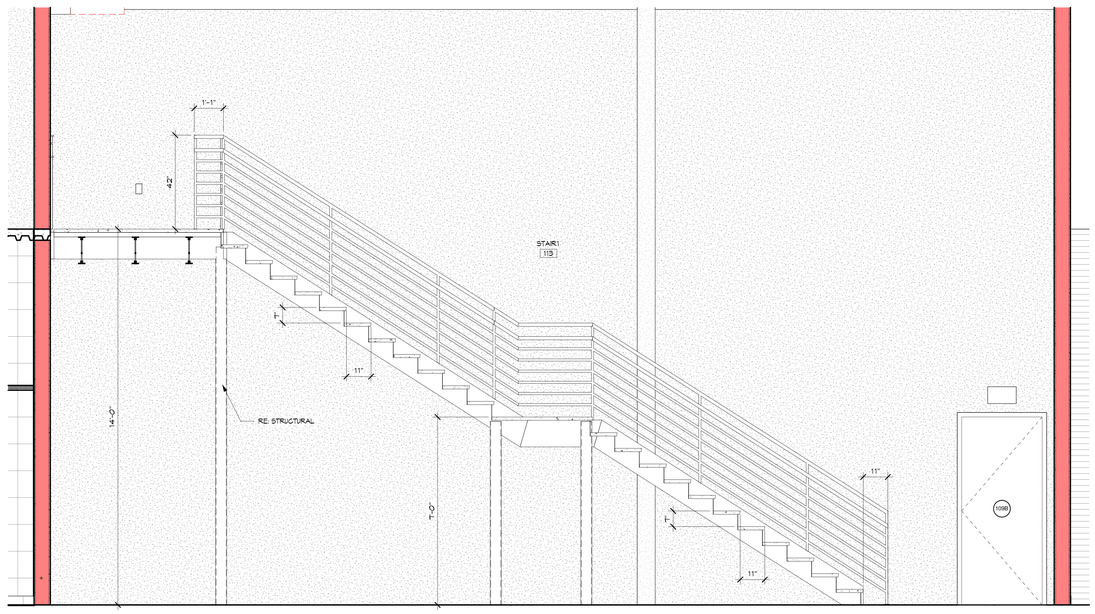
1 STAIR SECTION MEZZ
1/2" = 1'-0"



5 STAIR SECTION TENANT1
1/2" = 1'-0"

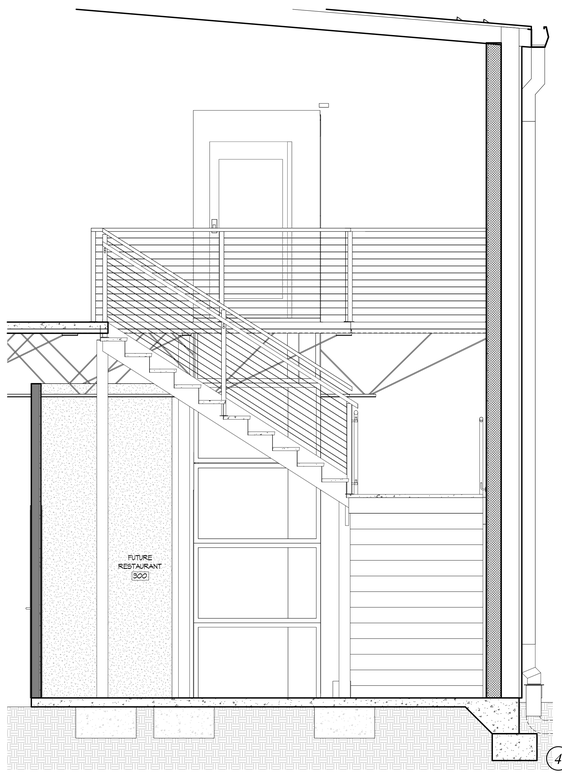


3 Section 11
1/2" = 1'-0"

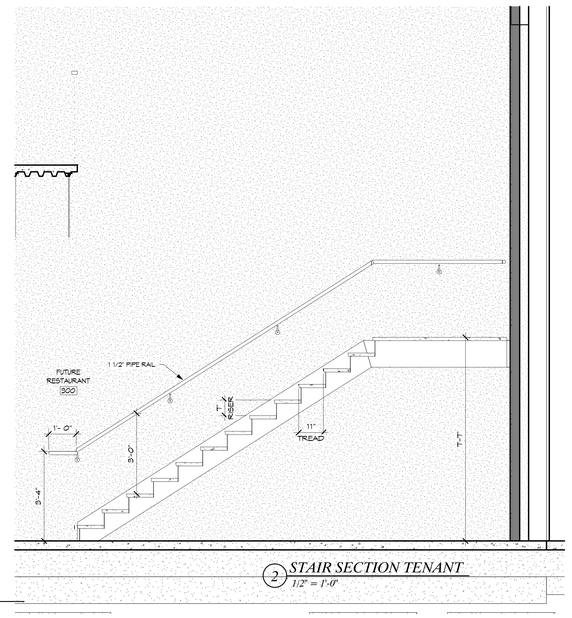


RE: AG.1 STANDARDS SHEET FOR FIRE RATED DESIGN CRITERIA

6 STAIR1 SECTION
1/2" = 1'-0"



4 Section 3
1/2" = 1'-0"



2 STAIR SECTION TENANT
1/2" = 1'-0"

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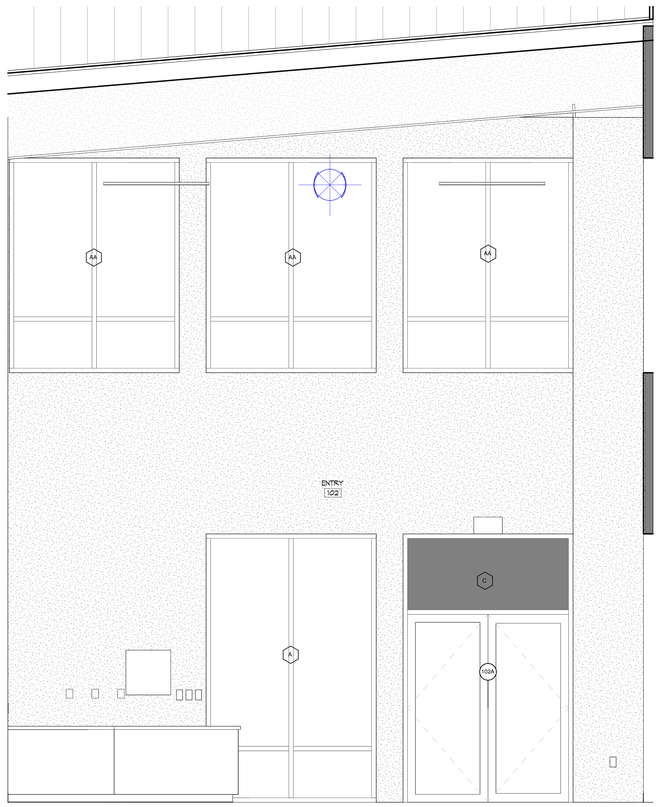
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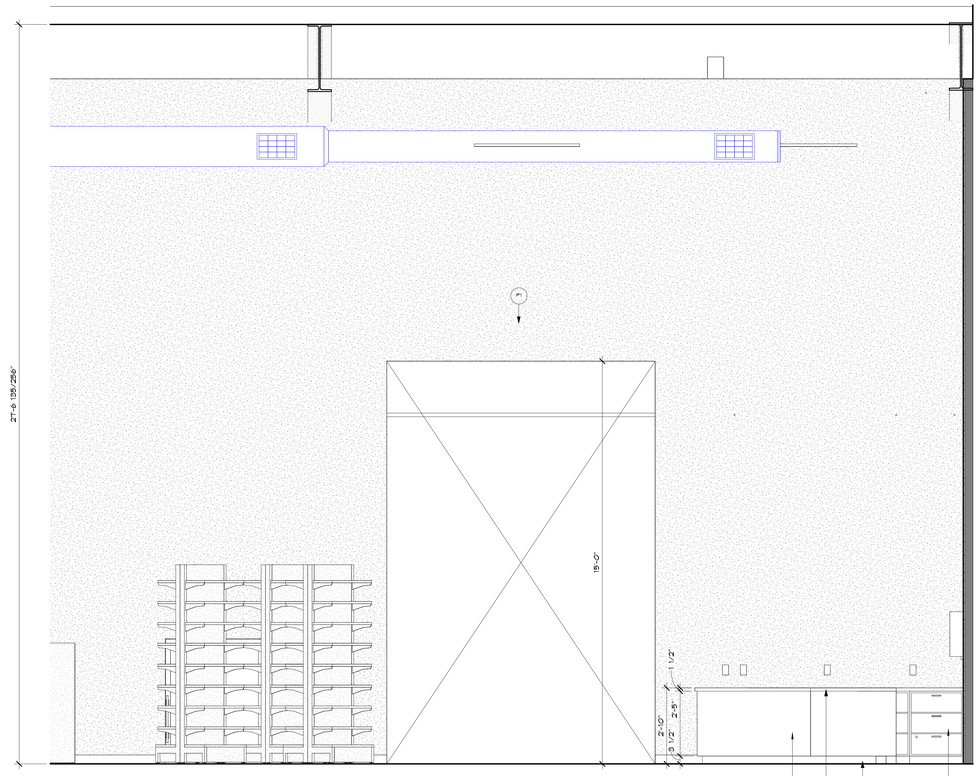
A4.1
STAIR
SECTION/DETAILS

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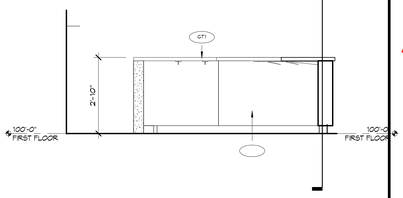
PRELIMINARY
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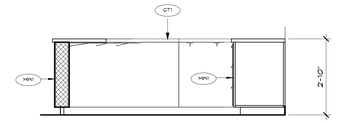
13 INTERIOR ELEVATION FRONT DESK
1/2" = 1'-0"



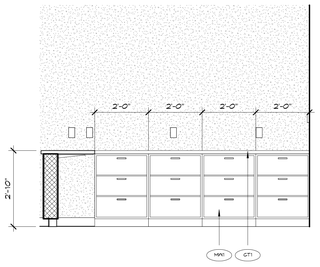
12 INTERIOR ELEVATION FRONT DESK
1/2" = 1'-0"



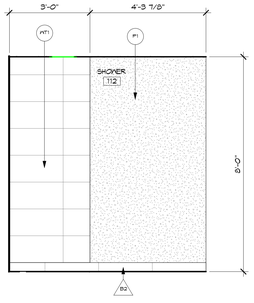
11 INTERIOR ELEVATION FRONT DESK
1/2" = 1'-0"



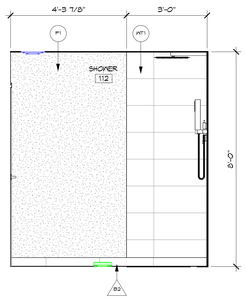
10 INTERIOR ELEVATION FRONT DESK
1/2" = 1'-0"



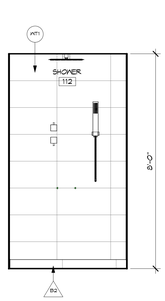
9 INTERIOR ELEVATION FRONT DESK
1/2" = 1'-0"



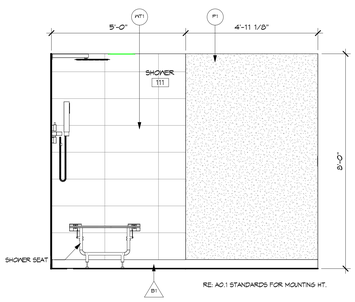
25 INTERIOR ELEVATION SHOWER 108
1/2" = 1'-0"



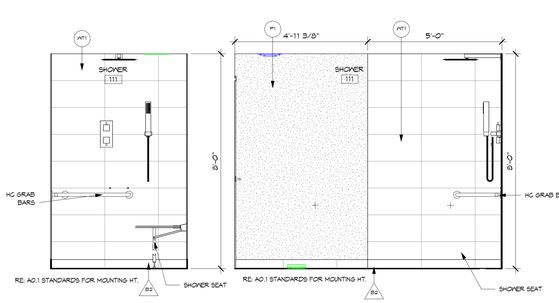
24 INTERIOR ELEVATION SHOWER 108
1/2" = 1'-0"



23 INTERIOR ELEVATION SHOWER 108
1/2" = 1'-0"

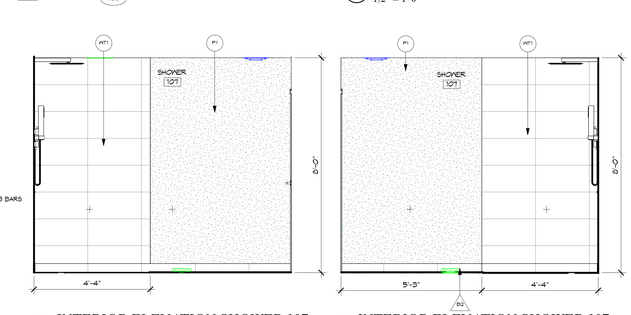


19 INTERIOR ELEVATION SHOWER 111
1/2" = 1'-0"



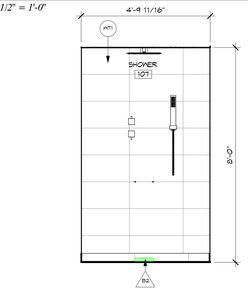
18 INTERIOR ELEVATION SHOWER 111
1/2" = 1'-0"

17 INTERIOR ELEVATION SHOWER 111
1/2" = 1'-0"

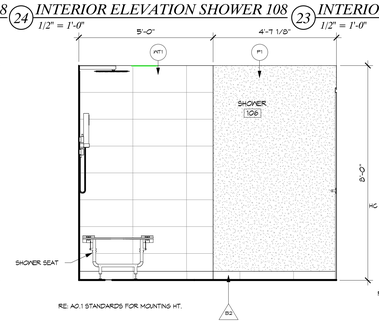


22 INTERIOR ELEVATION SHOWER 107
1/2" = 1'-0"

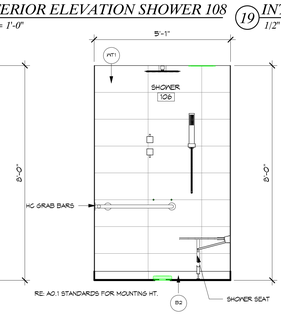
20 INTERIOR ELEVATION SHOWER 107
1/2" = 1'-0"



21 INTERIOR ELEVATION SHOWER 107
1/2" = 1'-0"



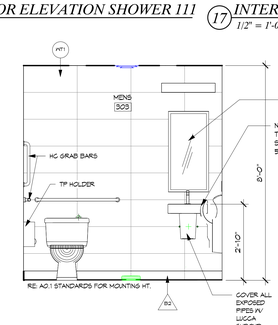
16 INTERIOR ELEVATION SHOWER 106
1/2" = 1'-0"



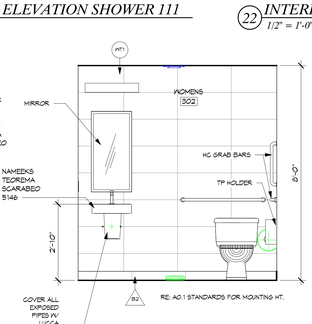
15 INTERIOR ELEVATION SHOWER 106
1/2" = 1'-0"



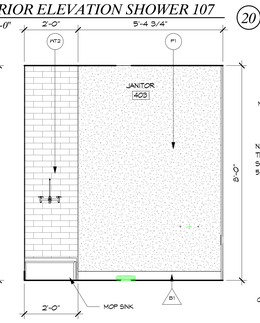
14 INTERIOR ELEVATION SHOWER 106
1/2" = 1'-0"



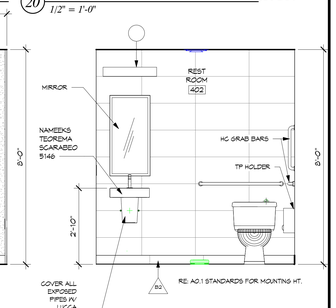
8 INTERIOR ELEVATION RR 303
1/2" = 1'-0"



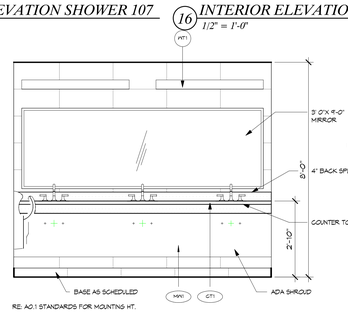
7 INTERIOR ELEVATION RR 302
1/2" = 1'-0"



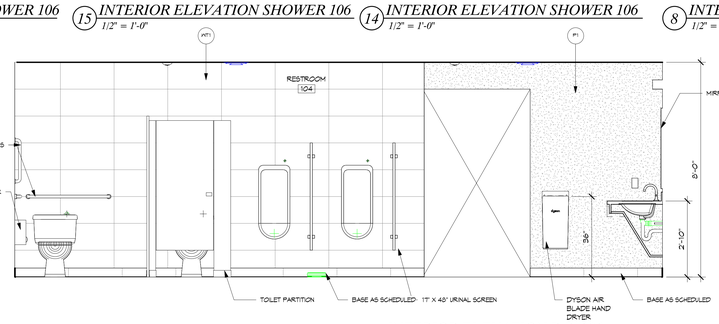
6 INTERIOR ELEVATION JAN. 403
1/2" = 1'-0"



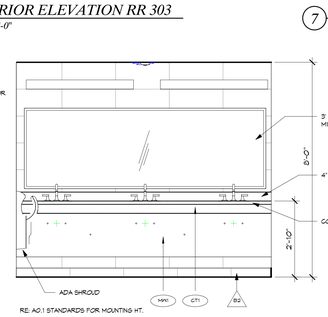
5 INTERIOR ELEVATION RR 402
1/2" = 1'-0"



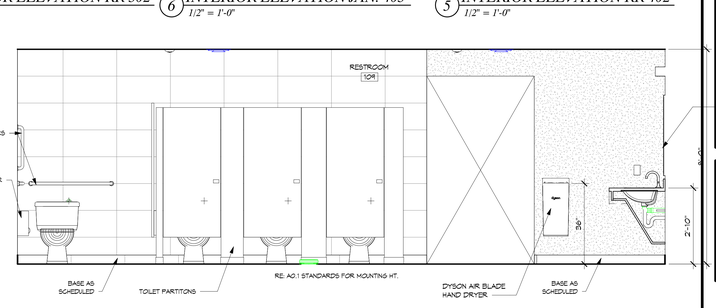
4 INTERIOR R.R. 109
1/2" = 1'-0"



3 INTERIOR ELEVATION R.R. 106
1/2" = 1'-0"



2 INTERIOR ELEVATRION R.R. 112
1/2" = 1'-0"



1 INTERIOR ELEVATION R.R. 109
1/2" = 1'-0"

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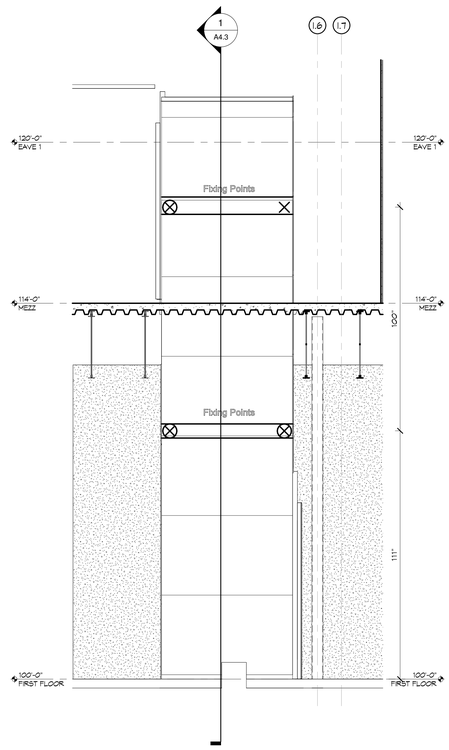
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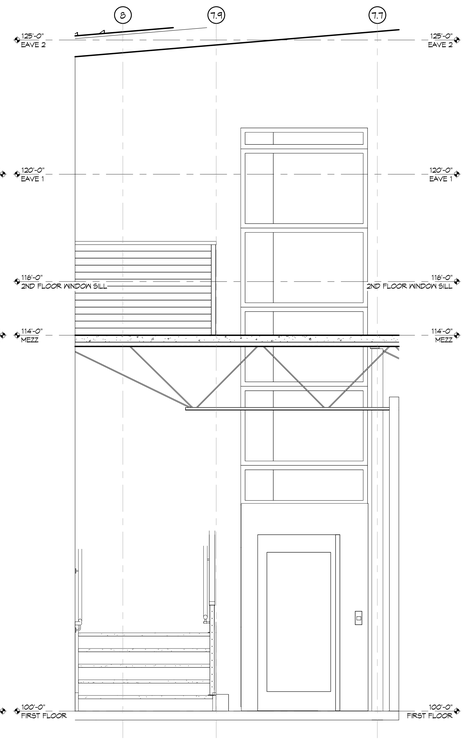
A4.2
INTERIOR ELEVATIONS

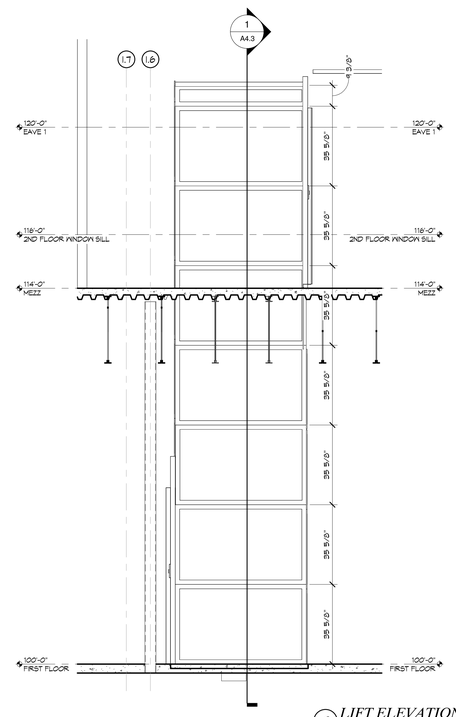
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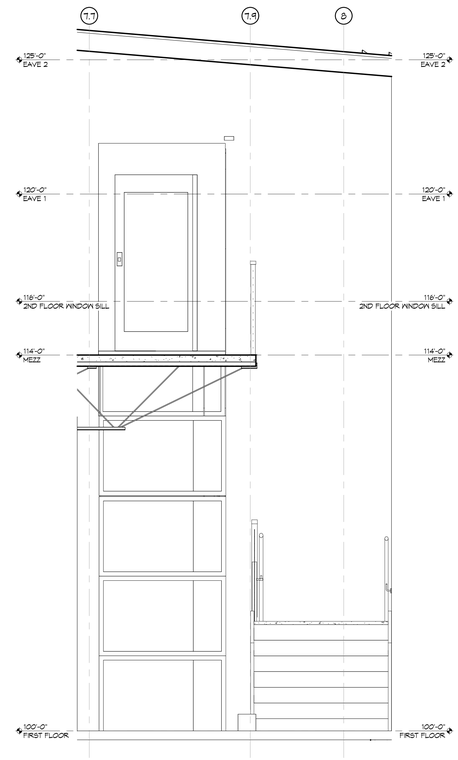


5 *LIFT ELEVATION "C"*
1/2" = 1'-0"

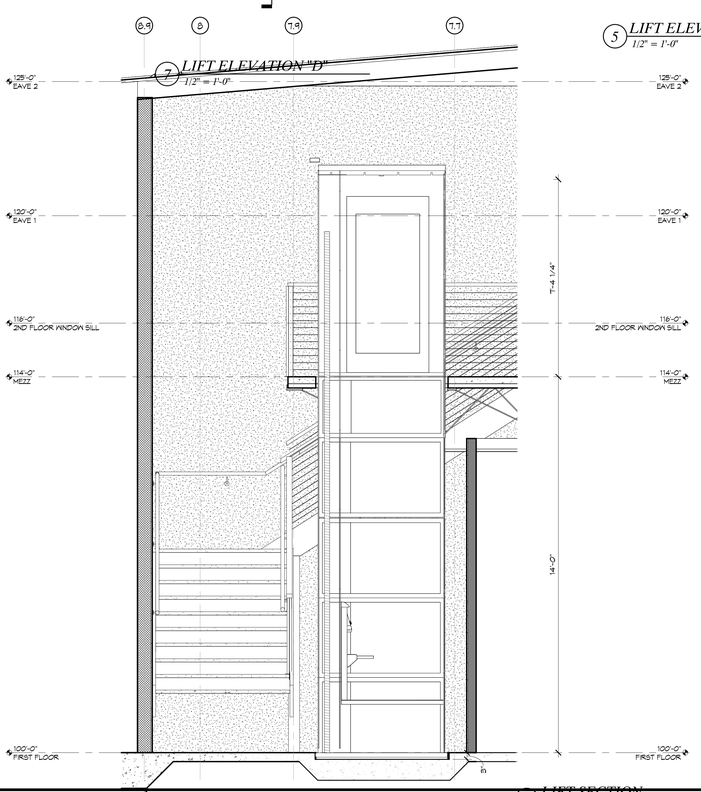




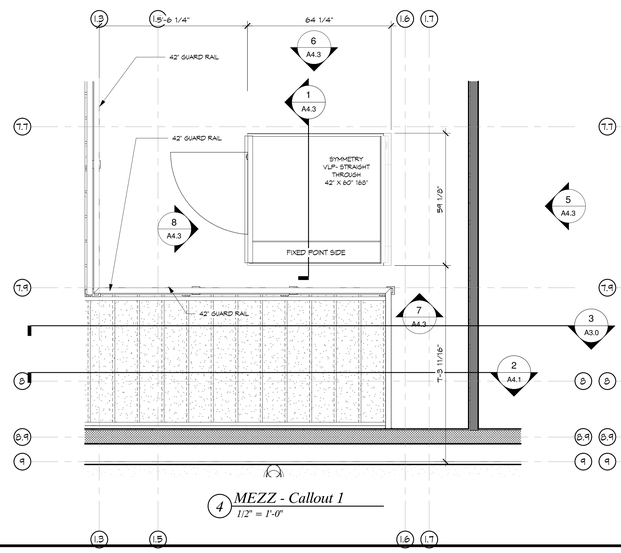
6 *LIFT ELEVATION "B"*
1/2" = 1'-0"



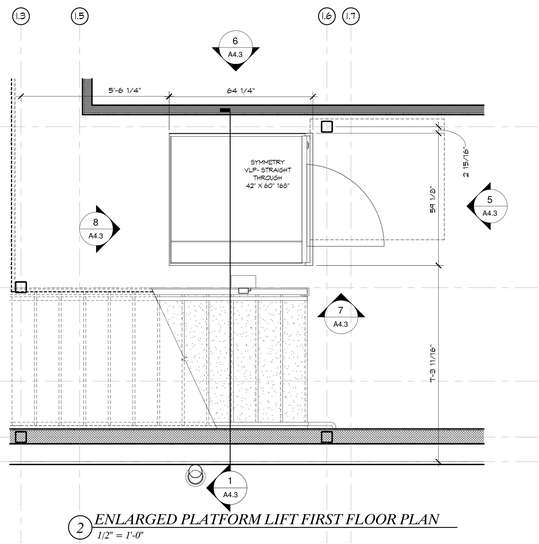
8 *LIFT ELEVATION "A"*
1/2" = 1'-0"



1 *LIFT SECTION*
1/2" = 1'-0"



4 *MEZZ - Callout 1*
1/2" = 1'-0"



2 *ENLARGED PLATFORM LIFT FIRST FLOOR PLAN*
1/2" = 1'-0"

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A4.3
PLATFORM LIFT

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Door Schedule

MARK	DOOR WIDTH	DOOR HEIGHT	ELEVATION	FRAME TYPE	DOOR TYPE	HARDWARE SET	RATING	Finish	NOTES
001	4'-0"	8'-0"							GATE
100A	3'-0"	7'-0"	7	HM	HM	1		BSP	
100B	3'-0"	7'-0"	7	HM	HM	1		BSP	
100C	3'-0"	7'-0"	7	HM	HM	1		BSP	
100D	3'-0"	7'-0"	7	HM	HM	1		BSP	
100E	3'-0"	7'-0"	7	HM	HM	1		BSP	
101	3'-0"	7'-0"	7	HM	HM	1		BSP	
102A	3'-0"	7'-0"	6	ALUM	ALUM/GLASS	6		BSP	
103A	6'-0"	7'-0"	2	HM	SCN	2		BSP	
103B	3'-0"	7'-0"	1	HM	HM	2		BSP	
105A	2'-6"	6'-8"	1	HM	SCN	5		BSP	
106	3'-0"	7'-0"	1	HM	SCN	5		BSP	
108	3'-0"	7'-0"	1	HM	SCN	4		BSP	
109A	3'-0"	7'-0"	1	HM	HM	1	20 MIN.	BSP	
109B	3'-0"	7'-0"	7	HM	HM	1	20 MIN.	BSP	
109C	3'-0"	7'-0"	1	HM	HM	1	20 MIN.	BSP	
110	0"	0"	4	HM	WD/GLASS	1		BSP	
110	3'-0"	7'-0"	1	HM	SCN	4		BSP	
111	6'-0"	7'-0"	2	HM	SCN	2		BSP	
111	3'-0"	7'-0"	1	HM	SCN	5		BSP	
112	2'-6"	6'-8"	1	HM	SCN	5		BSP	
113	3'-0"	7'-0"			SCN				
116									
117									
300A	3'-0"	7'-0"	6	ALUM	ALUM/GLASS	6		BSP	
300B	3'-0"	7'-0"	5	ALUM	ALUM/GLASS	1		BSP	
302	3'-0"	7'-0"	1	HM	SCN	5		BSP	
303	3'-0"	7'-0"	1	HM	SCN	5		BSP	
304	3'-0"	7'-0"			SCN				
400A	3'-0"	7'-0"	6	ALUM	ALUM/GLASS	6		BSP	
400B	3'-0"	7'-0"	3	HM	SCN/GLASS	2		BSP	
401	3'-0"	7'-0"	3	HM	SCN/GLASS	5		BSP	
402	3'-0"	7'-0"	1	HM	SCN	5		BSP	
403	3'-0"	7'-0"	1	HM	SCN	5		BSP	

LOCK SETS:

SET 1 - KEYED, PUSH PAD EXIT DEVICE, PULL, CLOSER, HC ALUM. THRESHOLD

SET 2 - KEYED, CLOSER, LEVER EXTENSION FLUSH BOLT @ DOUBLE DOORS, INACTIVE LEAF.

SET 3 - PRIVACY, CLOSER

SET 4 - PUSH/ PULL, DOOR CLOSER, KICK PLATES,

SET 5 - PASSAGE SET, CLOSER, DEAD BOLT (OCCUPIED INDICATOR)

SET 6 - KEYED, PUSH PAD EXIT DEVICE, INACTIVE LEAF. TOP & BOTTOM INSET BOLT W/ NO HARDWARE 2ND LEAF. CLOSER.

SET 7 - KEYED, DEADBOLT

SET 8 - PASSAGE SET

NOTES:

1. ALL HARDWARE TO BE LEVER ACTION W/ A BRUSHED CHROME FINISH -
2. ALL CLOSERS TO MEET ADA REQUIREMENTS
3. ALL ALUM. DOOR FRAMES ARE TO BE ANODIZED ALUM. FINISH

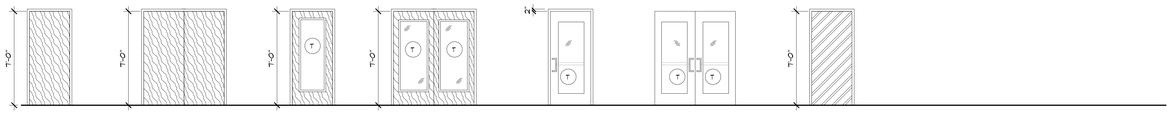
NOTE: COMPLETE ALL HARDWARE WITH NECESSARY HARDWARE INCLUDING HINGES AND DOOR STOPS

WATER INTRUSION NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PREFABRICATED FLASHING FOR ALL CONNECTION CONDITIONS IN THE WEATHER RESISTANT BARRIER FOR REVIEW BY THE ARCHITECT. FAILURE TO OBTAIN AN APPROVED SET OF DETAIL SHOP DRAWINGS SHALL RELIEVE THE ARCHITECT OF ANY AND ALL LIABILITY REGARDING WEATHER RESISTANT BARRIER FLASHING AND CONDITIONS.
2. IT IS THE INTENT OF THESE DRAWINGS TO ILLUSTRATE THE MINIMUM REQUIREMENTS. MORE STRINGENT INSTRUCTIONS REQUIRED BY MANUFACTURERS, SUPPLIERS, OR INSTALLERS TO MAINTAIN GUARANTEES OR WARRANTIES SHALL BE COMPLETELY FOLLOWED.
3. WEATHER RESISTANT BARRIER SHALL BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL APPLICABLE CODES.
4. ALL WINDOWS AND DOORS SHALL BE PREMANUFACTURED ALUM FRAMES WITH GLAZING. ALL INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER SHALL BE COMPLETELY FOLLOWED.
5. SEALANTS USED SHALL BE COMPATIBLE WITH AND APPROVED BY THE MANUFACTURERS OF ALL MATERIALS AND PRODUCTS TO WHICH THESE SEALANTS ARE APPLIED. CONTRACTOR IS RESPONSIBLE FOR THE APPROPRIATE SELECTION OF THE PROPER TYPE OF SEALANT FOR THE INTENDED USE.

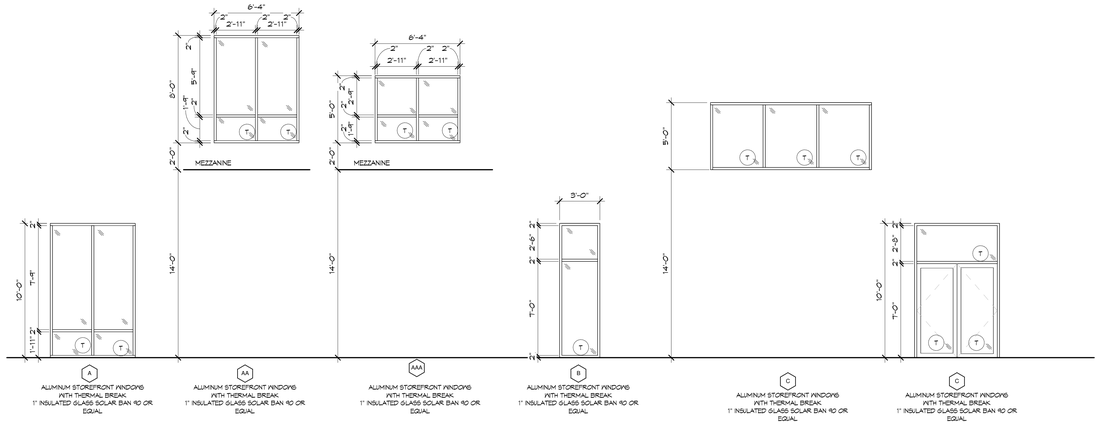
DOOR ELEVATIONS

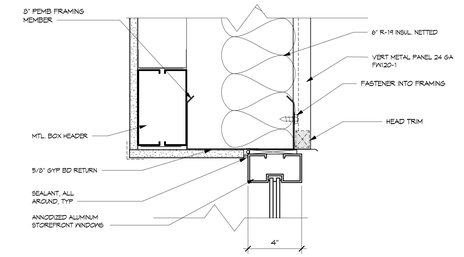
1/4" = 1'-0"



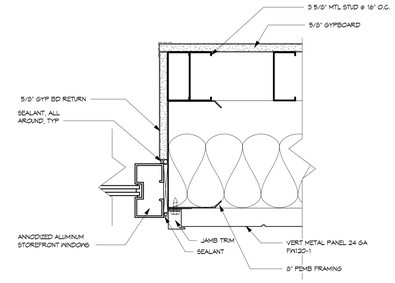
WINDOW SCHEDULE

1/4" = 1'-0"

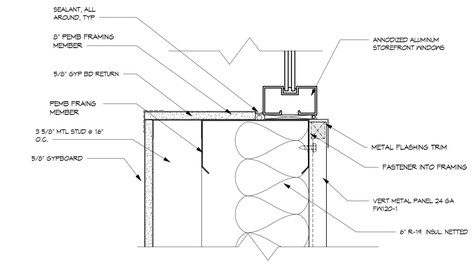




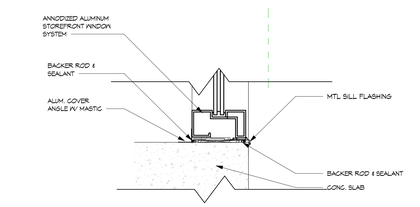
5 *WINDOW HEAD @ MTL PANEL*
3" = 1'-0"



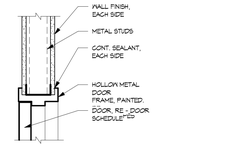
4 *WINDOW JAMB @ MTL PANEL*
3" = 1'-0"



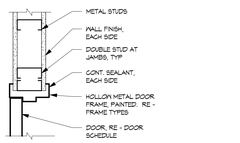
3 *WINDOW SILL @ MTL PANEL*
3" = 1'-0"



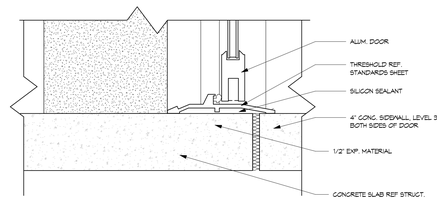
2 *SILL @ SLAB*
3" = 1'-0"



7 *HEAD DETAIL - HM FRAME ON STUDS*
1 1/2" = 1'-0"



6 *JAMB DETAIL - HM FRAME ON STUDS*
1 1/2" = 1'-0"



1 *SILL @ ALUMINUM FRAME DOOR*
3" = 1'-0"

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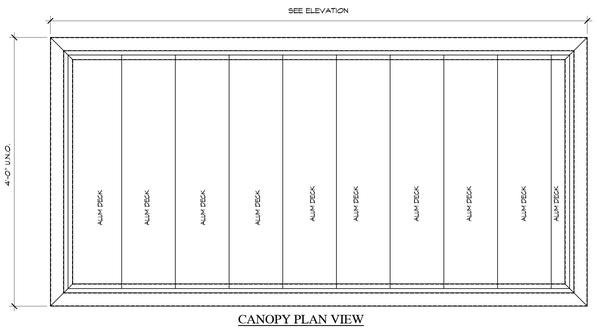
DATE
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JOB NO.
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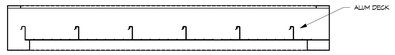
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SCHEDULES

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CANOPY PLAN VIEW

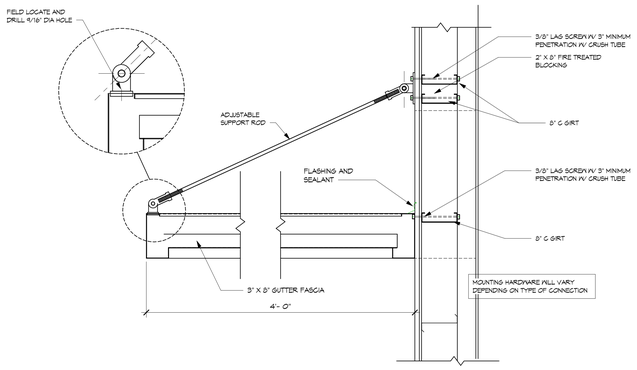


CANOPY SECTION

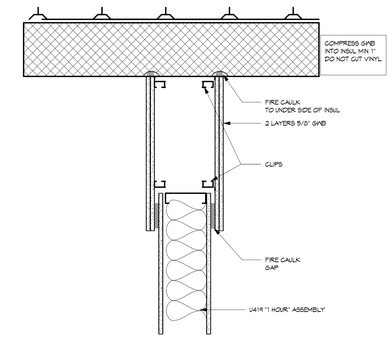


CANOPY FRAME PROFILE

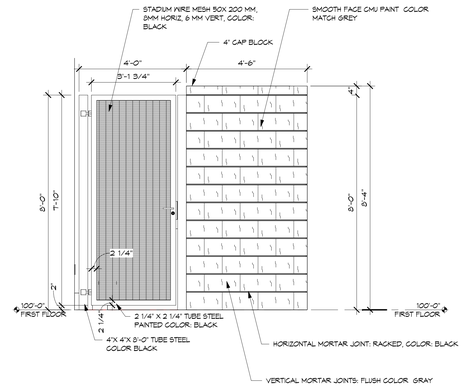
14 GA ALUMNUM



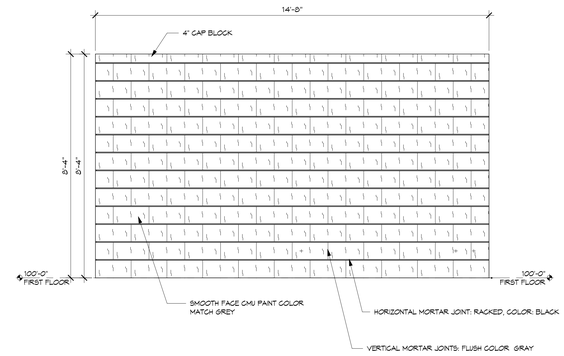
7 *STI PRE-ENGINEERED CANOPY*
1" = 1'-0"



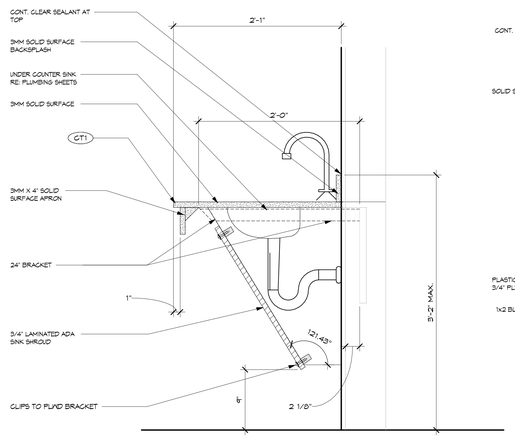
6 *RATED ASSEMBLY AT BEAM*
1 1/2" = 1'-0"



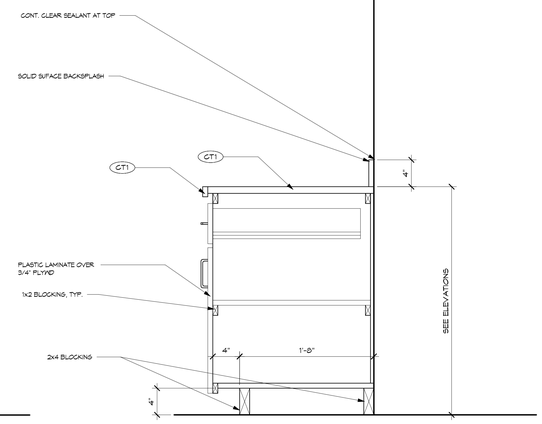
5 *SOUTH HVAC COURT YARD WALL ELEVATION*
1/2" = 1'-0"



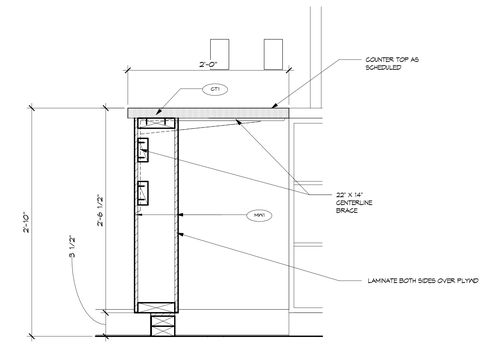
4 *EAST HVAC COURT YARD WALL ELEVATION*
1/2" = 1'-0"



3 *MILLWORK VANITY SECTION*
1 1/2" = 1'-0"



2 *CABINETS @ FRONT COUNTER*
1 1/2" = 1'-0"



1 *FRONT COUNTER SECTION*
1 1/2" = 1'-0"

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DETAILS

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FINISH LEGEND NOTES:

HEXAGON: INDICATES FLOOR FINISH MATERIAL

TRIANGLE: INDICATES WALL BASE MATERIAL

CIRCLE: INDICATES WALL/ CEILING FINISH MATERIAL

ELLIPSE: INDICATES WOOD VENEER, SOLID SURFACE, OR PLASTIC LAMINATE FINISH

WALL FINISH NOTES:

1. ALL PAINTED SURFACES SHALL HAVE A SMOOTH FINISH (599 PRIMER), WITH EGGSHELL PAINT UNLESS OTHERWISE NOTED. METAL (NON-ALUMINUM) SURFACES SHALL RECEIVE ALKYD ENAMEL SEMI-GLOSS FINISH.
2. CONTRACTOR SHALL SUPPLY ALL NECESSARY FINISHES AS REQUIRED BY THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR QUANTITY, TAKEOFF, AND LABOR TO APPLY FINISHES. CONTRACTOR IS ALSO RESPONSIBLE FOR THE SUPPLY AND APPLICATION OF ALL PAINT AND STAIN REQUIRED BY THE PROJECT.
3. PAINT HM DOOR FRAMES TO MATCH COLOR OF ADJACENT WALL. (BOTH SIDES OF FRAME COULD BE DIFFERENT COLORS)
4. ALL AREAS TO RECEIVE (P1) UNLESS OTHERWISE NOTED.
5. PAINT TO BE LOW VOC - NON TOXIC PAINT, COLOR MATCH AS REQUIRED.
6. SEE INTERIOR ELEVATIONS FOR MORE FINISH DETAILS.

PAINT:

- (P1) SW 7042 - SHOJI WHITE
- (P2) SW ---- - MATCH MBCI IVY GREEN
- (P3) SW 6258 TRICORN BLACK
- (P4) SW 7046 IRON ORE (INT DOORS)

WALL TREATMENTS:

- (WT1) DALTILE TILE, RIDGED CLAY, ROCK (12" X 24" - HORIZONTAL 1/3 OFFSET STACK) (48" AFF)
- (WT2) FIBER REINFORCED PANEL- SYMMETRIX XV/SAN-COAT 55416 663-R1 WHITE XV BLACK CORE SUBWAY
- (WT3) MBCI, PBD EXP FASTENER 26 GA LINER PANEL, INSTALL HORIZONTAL, COLOR: TUNDRA OR EQUAL
- (WT4) MBCI , PBD EXP FASTENER 26 GA LINER PANEL, INSTALL VERTICAL, COLOR: IVY GREEN OR EQUAL

MILLWORK FINISHES:

- (MW1) ----WILSONART PEARL ALLOY 5051 18 LINEARITY FINISH----

COUNTERTOP:

- (CT1) SOLID SURFACE - WILSONART BLACK ONYX MIRAGE XV (4" BACK SPLASH)

FLOOR FINISH NOTES:

1. ALL PRODUCTS SHALL BE AS SPECIFIED, NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT.
2. PROVIDE SMOOTH TRANSITION WHERE CHANGE IN FLOOR MATERIALS OCCURS
3. ALL AREAS TO RECEIVE (B1), UNLESS OTHERWISE NOTED ON THE SCHEDULE

FLOOR FINISHES:

- (SC) SEALED CONCRETE
- (BFC) BROOM FINISH CONCRETE
- (CT) CERAMIC TILE -TRINITY TILE, MICA BIANCO, FINISH: MATT 24" X 48"
- (PB) PICKLE BALL COURT SYSTEM.
  OUT OF BOUND COLOR: DARK GREY
  INBOUND COLOR: NOVA GREEN

  SPORT FLOOR: NOVAPLAY FOR PICKLEBALL CONSISTED OF NOVATEX OVER SEAL ALINE OVER NOVPLAY OVER NOVASURFACE ACRYLIC RESURFACER. CONTACT THE VENDOR BELOW FOR COORDINATION OF INSTALLATION AND PRICING.

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  GERALD PERRY TENNIS, INC.
  SPRINGFIELD, MO
  417-264-9224

  geraldperrytennis@att.net

BASE

- (B1) 4" VINYL
- (B2) CERAMIC TILE, TRINITY TILE - MICA BIANCNO (4"X 24" BULLNOSE)

STAIR TREAD

- (T1) RUBBER STAIR TREAD AND LANDING TILE RAISED ROUND
  TARKETT - 20 CHARCOAL PG,
  TARKETT - 20 CHARCOAL PG



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

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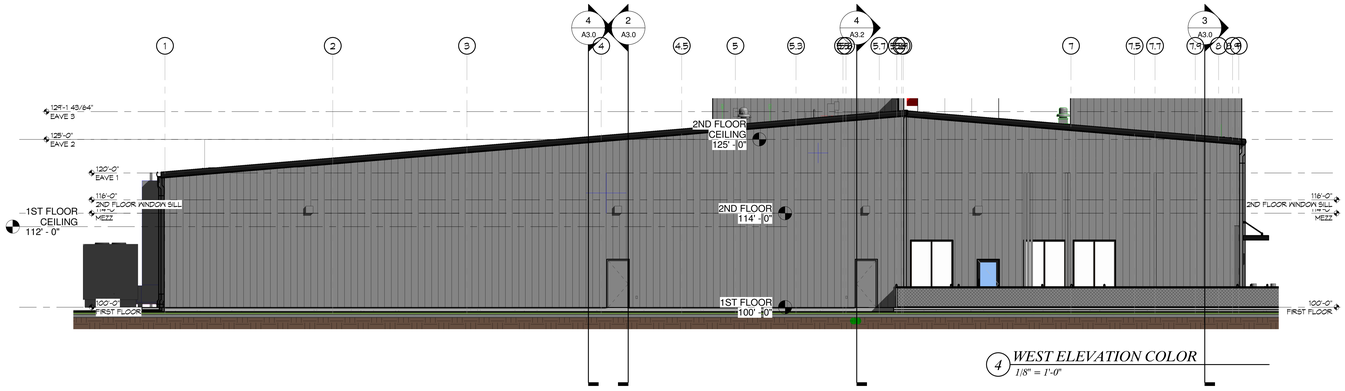
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FINISH SCHEDULES

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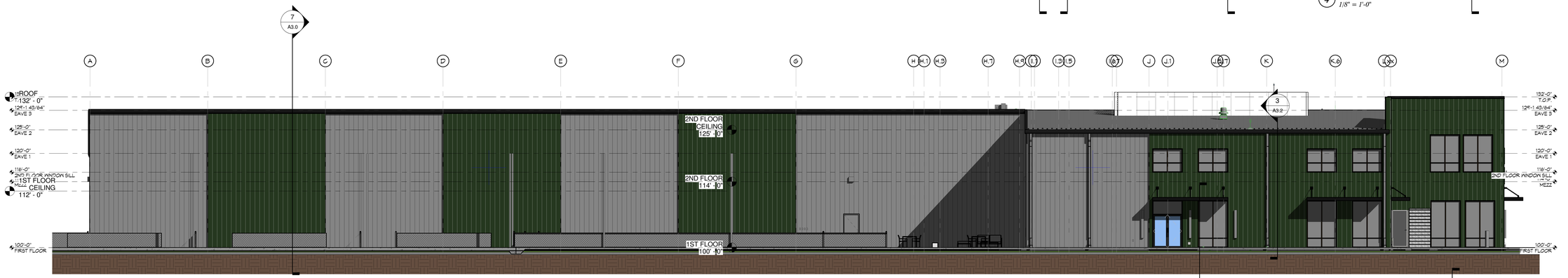
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EXTERIOR MATERIALS LEGEND

STANDING SEAM METAL ROOF 24 GA SUPERLOK, COLOR: STORM GRAY	ARCHITECTURAL METAL PANEL 24 GA FW-120-1, COLOR: TUNDRA	DOUBLE PANE - LOW E - TINTED GLAZING
ARCHITECTURAL METAL PANEL 24 GA FW-120-1, COLOR: CLASSIC IVY GREEN	METAL ACCENT TRIM, DOWNSPOUTS, RACK GUTTERS, RACK FASCIA, PRE-ENGINEERED CANOPIES, EXPOSED STEEL COLUMNS AND STEEL BEAMS COLOR - STORM GRAY	METAL ACCENT TRIM, DOWNSPOUTS, RACK GUTTERS, RACK FASCIA, PRE-ENGINEERED CANOPIES, EXPOSED STEEL COLUMNS AND STEEL BEAMS COLOR - STORM GRAY



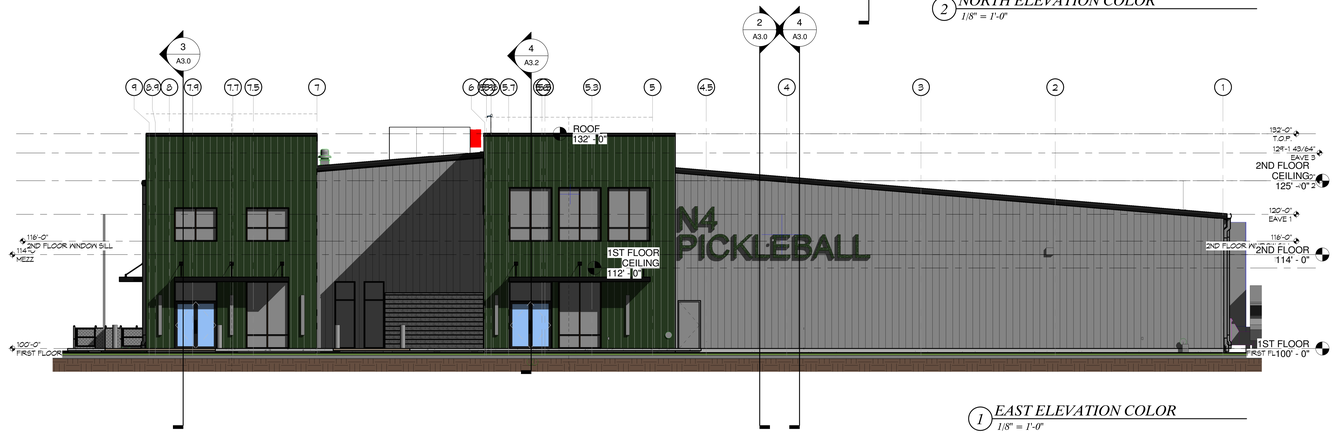
4 *WEST ELEVATION COLOR*
1/8" = 1'-0"



3 *SOUTH ELEVATION COLOR*
1/8" = 1'-0"



2 *NORTH ELEVATION COLOR*
1/8" = 1'-0"



1 *EAST ELEVATION COLOR*
1/8" = 1'-0"

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A7.0
COLOR ELEVATIONS

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DIVISION 22 - PLUMBING

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SUBMITTALS

1. Prior to procurement and if required by general contractor, contractor shall submit product data for review for all equipment, including the following:
   A. Plumbing fixtures.
   B. Domestic water piping specialties.
   C. Sanitary waste piping specialties.
   D. Domestic water heaters.

SECTION 220523 - GENERAL-DUTY VALVES FOR PLUMBING PIPING

2.1 SYSTEM DESCRIPTION

A. ASME Compliance:
   1. ASME B1.20.1 for threads for threaded end valves.
   2. ASME B16.18 for solder-joint connections.
B. NSF Compliance: NSF 61 and NSF 372 for valve materials for potable-water service.

2.2 GENERAL-DUTY VALVES

A. Valve Sizes: Same as upstream piping unless otherwise indicated.
B. Valves in Insulated Piping: With 2-inch stem extensions.
C. Two-Piece, Brass or Bronze Ball Valves with Full Port and Brass Trim:
   1. Description:
      a. Standard: MSS SP-110.
      b. CWP Rating: 600 psig.
      c. Body Design: Two piece.
      d. Body Material: Forged brass.
      e. Ends: Threaded and soldered.
      f. Seats: PTFE.
      g. Stem: Brass.
      h. Ball: Chrome-plated brass.
      i. Port: Full.

3.1 INSTALLATION

A. Locate valves for easy access and provide separate support where necessary.
B. Install valves in horizontal piping with stem at or above center of pipe.
C. Install valves in a position to allow full stem movement.

SECTION 220700 - PLUMBING INSULATION

2.1 PERFORMANCE REQUIREMENTS

A. Insulation Installed Indoors: Flame-spread index of 25 or less, and smoke-developed index of 50 or less according to ASTM E 84.
B. Insulation Installed Outdoors: Flame-spread index of 75 or less, and smoke-developed index of 150 or less according to ASTM E 84.

2.2 INSULATION MATERIALS

A. Polyolefin: Unicellular, polyethylene thermal plastic insulation. Comply with ASTM C 534 or ASTM C 1427, Type I, Grade 1 for tubular materials and Type II, Grade 1 for sheet materials.

2.3 ADHESIVES

A. Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated unless otherwise indicated.
B. Flexible Polyolefin Adhesive: Comply with MIL-A-24179A, Type II, Class I, VOC content of 50 g/L or less.

3.1 PIPE INSULATION INSTALLATION

A. Comply with requirements of the Midwest Insulation Contractors Association's "National Commercial & Industrial Insulation Standards" for insulation installation on pipes and equipment.
B. Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated): Install insulation continuously through walls and partitions.
C. Insulation Installation at Fire-Rated Wall, Partition, and Floor Penetrations: Install insulation continuously through penetrations and seal to maintain fire rating.
D. Polyolefin Insulation Installation:
   1. Seal split-tube longitudinal seams and end joints with adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
   2. Insulation Installation on Pipe Fittings and Elbows: Install mitered sections of polyolefin pipe insulation. Secure insulation materials and seal seams with adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
E. Interior Piping System Applications: Insulate the following piping systems:
   1. Domestic hot water.
   2. Recirculated domestic hot water.

3.2 INDOOR PIPING INSULATION SCHEDULE

A. Domestic Hot and Recirculated Hot Water:
   1. All Pipe Sizes:Insulation shall be the following:
      a. Polyolefin: Minimum 1/2 inch thick.

SECTION 221116 - DOMESTIC WATER PIPING

2.1 PREFORMANCE REQUIREMENTS

A. Potable-water piping and components shall comply with NSF 14 and NSF 61. Plastic piping components shall be marked with "NSF-pw."

2.2 PIPE AND FITTINGS

A. Soft Copper Tubing: ASTM B 88, Types K and L (ASTM B 88 M, Types A and B), water tube, annealed temper with copper pressure fittings, cast-copper-alloy or wrought-copper, solder-joint fittings. Furnish wrought-copper fittings if indicated.
   1. Joining Materials: Use ASTM B 813, water-flushable, lead-free flux; ASTM B 32, lead-free-alloy solder.
B. PEX Tube and Fittings: ASTM F 877, SDR 9 PEX tubing and ASTM F 1807, metal insert-type fittings with copper or stainless-steel crimp rings.
   1. Manifold: ASTM F 877 plastic or corrosion-resistant-metal assembly, with a plastic or corrosion-resistant-metal valve for each outlet.
C. PVC Piping: ASTM D 1785, Schedule 40 pipe with ASTM D 2466, Schedule 40, socket-type fittings.

3.1 INSTALLATION

A. Install piping free of sags and bends.
B. Install unions at final connection to each piece of equipment.
C. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
D. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
E. Install shutoff valve, hose-end drain valve, and pressure gage, inside the building at each domestic water service entrance.
G. Install domestic water piping without pitch for horizontal piping and plumb for vertical piping.
H. Rough-in domestic water piping for water-meter installation according to utility company's requirements.
I. Pipe hanger and support devices:
   1. Install vinyl-coated hangers for PEX piping with the following maximum horizontal spacing and minimum rod diameters:
      a. NPS 1 and Smaller: 32 inches with 3/8-inch rod.
      b. Install hangers for vertical PEX piping every 48 inches.
   2. Install vinyl-coated hangers for PVC piping with the following maximum horizontal spacing and minimum rod diameters:
      a. NPS 2 and Smaller: 48 inches with 3/8-inch rod.
      b. NPS 2-1/2 to NPS 3-1/2: 48 inches with 1/2-inch rod.
      c. Install supports for vertical PVC piping every 48 inches.

3.2 INSPECTING AND CLEANING

A. Inspect and test piping systems as follows:
   1. Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water.
   2. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired.
B. Clean and disinfect potable domestic water piping by filling system with water/chlorine solution with at least 50 ppm of chlorine. Isolate with valves and allow to stand for 24 hours. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.

3.3 PIPING SCHEDULE

A. Underground, water-service piping: Type K Soft Copper Tubing, PEX Piping or Schedule 40 PVC.
B. Under-building slab, domestic water piping: Type L Soft Copper Tubing or PEX piping.
C. Aboveground domestic water piping: Type L Soft Copper Tubing or PEX piping.

SECTION 221119 - DOMESTIC WATER PIPING SPECIALTIES

2.1 GENERAL REQUIREMENTS FOR PIPING SPECIALTIES

A. Potable-water piping and components shall comply with NSF 61 and NSF 14. Mark "NSF-pw" on plastic piping components.

2.2 MANUFACTURED UNITS

A. Pipe-Applied, Atmospheric-Type Vacuum Breakers:
   1. Standard: ASSE 1001.
   2. Size, Body and Connection Type: As required to match connected piping.
B. Reduced-Pressure-Principle Backflow Preventers:
   1. Standard: ASSE 1013.
   2. Refer to PLUMBING FIXTURE SCHEDULE.
C. Thermostatic, Water Mixing Valves:
   1. Standard: ASSE 1070.
   2. Tempered-Water Setting: 110 deg F.
   3. Tempered-Water Design Flow Rate: As required for fixture being supplied.
D. Water-Hammer Arresters:
   1. Standard: ASSE 1010 or PDI-WH 201.
   2. Type: Metal bellows or Copper tube with piston.
   3. Size: ASSE 1010, Sizes AA and A through F, or PDI-WH 201, Sizes A through F.

3.1 INSTALLATION

A. Install backflow preventers in each water supply to mechanical equipment and systems and to other equipment and water systems that may be sources of contamination. Comply with authorities having jurisdiction.
B. Install thermostatic, water mixing valves on how water inlets to any public hand-washing fixture.
C. Install water-hammer arresters in water piping according to PDI-WH 201.

3.2 FIELD QUALITY CONTROL

A. Perform the following tests and inspections:
   1. Test each water piping specialty as required and according to authorities having jurisdiction and the device's reference standard.

SECTION 221316 - SANITARY WASTE AND VENT PIPING

2.1 PERFORMANCE REQUIREMENTS

A. Components and installation shall be capable of withstanding the following minimum working pressure unless otherwise indicated:
   1. Soil, Waste, and Vent Piping: 10-foot head of water.
   2. Waste, Force-Main Piping: 50 psig.
B. Piping materials shall bear label, stamp, or other markings of specified testing agency.
C. Comply with NSF/ANSI 14, "Plastics Piping Systems Components and Related Materials," for plastic piping components.

2.2 PIPES AND FITTINGS

A. PVC Plastic, DWV Pipe and Fittings: ASTM D 2665, Schedule 40, plain ends with PVC socket-type, DWV pipe fittings.
   1. Adhesive Primer: ASTM F 656.
      a. Adhesive primer shall have a VOC content of 550 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
   2. Solvent Cement: ASTM D 2564.
      a. PVC solvent cement shall have a VOC content of 510 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

3.1 PIPING INSTALLATION

A. Install wall penetration system at each pipe penetration through foundation wall. Make installation watertight.
B. Install PVC soil and waste drainage and vent piping according to ASTM D 2665.
C. Install underground PVC soil and waste drainage piping according to ASTM D 2321.

3.2 PIPE SCHEDULE

A. Aboveground Applications: PVC plastic, DWV pipe and fittings with solvent-cemented joints
B. Belowground Applications: PVC plastic, DWV pipe and drainage-pattern fittings with cemented joints.

SECTION 221319 - SANITARY WASTE PIPING SPECIALTIES

2.1 PERFORMANCE REQUIREMENTS

A. Drainage piping specialties shall bear label, stamp, or other markings of specified testing agency.

2.2 CLEANOUTS

A. Plastic Wall Cleanouts:
   1. Size: Same as connected branch.
   2. Body: PVC.
   3. Closure Plug: PVC.
   4. Wall Access: Round, flat, chrome-plated brass or stainless-steel cover plate with screw.
B. Plastic Floor Cleanouts:
   1. Size: Same as connected branch.
   2. Body: PVC.
   3. Closure Plug: PVC.
   4. Riser: Drainage pipe fitting and riser to cleanout of same material as drainage piping.
C. Plastic Floor Drains:
   1. Standard: ASME A112.6.3.
   2. Refer to PLUMBING FIXTURE SCHEDULE.

2.3 ROOF FLASHING ASSEMBLIES

A. Roof Flashing Assemblies:
   1. Description: Manufactured assembly compatible with roof structure and material.

2.4 GREASE INTERCEPTORS

A. Plastic Grease Interceptors:
   1. Description: ASME A112.14.4, for automatic intercepting and retaining of fats, oils, and greases from food-preparation or -processing wastewater.

3.1 INSTALLATION

A. Install floor drains at low points of surface areas to be drained. Set grates of drains flush with finished floor unless otherwise indicated.
B. Install roof flashing assemblies on sanitary stack vents and vent stacks that extend through roof.

SECTION 223300 - DOMESTIC-WATER HEATERS

2.1 PERFORMANCE REQUIREMENTS

A. Comply with requirements of applicable NSF, AWWA, or FDA and EPA regulatory standards for tasteless and odorless, potable-water-tank linings.
B. Comply with performance efficiencies prescribed in ASHRAE 90.1., "Energy Efficient Design of New Low-Rise Residential Buildings."

2.2 WATER HEATERS, GENERAL

A. Insulation: Suitable for operating temperature and required insulating value. Include insulation material that surrounds entire tank except connections and controls.
B. Anode Rods: Factory installed, magnesium.
C. Combination Temperature and Pressure Relief Valve: ASME rated and stamped and complying with ASME PTC 25.3. Include relieving capacity at least as great as heat input and pressure setting less than water heater working-pressure rating. Select relief valve with sensing element that extends into tank.
D. Drain Valve: Factory or field installed.

2.3 ELECTRIC WATER HEATERS

A. Standard UL 174. or UL 1453 as applicable.
B. Refer to WATER HEATER SCHEDULE.

2.4 GAS-FIRED WATER HEATERS

A. Gas-Fired, Storage, Domestic-Water Heater:
   1. Standard ANSI Z21.10.1/CSA 4.1.
   2. Refer to WATER HEATER SCHEDULE.

3.1 INSTALLATION

A. Maintain manufacturer's recommended clearances.
B. Install temperature and pressure relief valves and extend to approved place of disposal.
C. Install vacuum relief valves in cold-water-inlet piping.
D. Install shutoff valves and unions at hot- and cold-water piping connections.
E. Electrically ground units according to authorities having jurisdiction.

SECTION 224000 - PLUMBING FIXTURES

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with requirements in ICC A117.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"; for plumbing fixtures for people with disabilities.
B. Regulatory Requirements: Comply with requirements in Public Law 102-486, "Energy Policy Act," about water flow and consumption rates for plumbing fixtures.
C. NSF Standard: Comply with NSF 61, "Drinking Water System Components - Health Effects," for fixture materials that will be in contact with potable water.

2.2 PLUMBING FIXTURES

A. Refer to PLUMBING FIXTURE SCHEDULE.

2.3 FITTINGS

A. Supply Fittings:
   1. Standards: Comply with NSF/ANSI 61, "Drinking Water System Components - Health Effects," for faucet materials that will be in contact with potable water. ASME A112.18.1/CSA B125.1.
   2. Supply Piping: Chrome-plated-brass pipe or chrome-plated-copper tube matching water-supply piping size. Include chrome-plated wall flange.
   3. Stops: Chrome-plated brass, one-quarter-turn, ball-type or compression stop with inlet connection matching water-supply piping type and size.
   4. Risers: ASME A112.18.6, braided- or corrugated-stainless-steel flexible hose riser.
B. Waste Fittings:
   1. Standard: ASME A112.18.2/CSA B125.2.
   2. Drain: Grid type with NPS 1-1/2 straight tailpiece unless noted otherwise.
   3. Trap Sizes: As required for connected fixture. Comply with local codes.
   4. Material: Chrome-plated, ASTM F 409 ABS or PVC, one or two-piece trap and waste to wall and wall flange.

3.1 INSTALLATION

A. Install fitting insulation kits on fixtures for people with disabilities. Maintain clearance requirements.
B. Install fixtures with flanges and gasket seals.
C. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for people with disabilities to reach.
D. Install tanks for accessible, tank-type water closets with lever handle mounted on wide side of compartment.
E. Install dishwasher air-gap fitting at each sink indicated to have air-gap fitting. Install in sink deck. Connect inlet hose to dishwasher and outlet hose to disposer.
F. Install escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork.
G. Seal joints between fixtures and walls, floors, and counters using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color.
H. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for people with disabilities. Maintain clearance requirements.

SEE MECHANICAL SPECIFICATION
SECTION 231123 ON SHEET M-001 FOR
NATURAL GAS PIPING INFORMATION

GENERAL PLUMBING NOTES

1. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL, CIVIL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS, THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS.
2. PLUMBING SYSTEMS SHALL BE INSTALLED AND TESTED USING MATERIALS AND PROCEDURES IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, LAWS AND/OR REGULATIONS AND AUTHORITIES HAVING JURISDICTION. SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN CODES AND THE DRAWINGS AND/OR SPECIFICATIONS, THE CODES, LAWS OR REGULATIONS SHALL GOVERN. ALL MATERIAL, EQUIPMENT INSTALLATION AND OPERATION SHALL BE IN FULL COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND REQUIREMENTS.
3. CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES INCLUDING CONNECTION FEES FOR UTILITY HOOKUPS. ALL WORK SHALL BE INSPECTED AS REQUIRED BY THE MUNICIPALITY HAVING JURISDICTION. FURNISH INSPECTION AND APPROVAL LETTERS TO OWNER.
4. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
5. ALL WORK AND MATERIALS ARE SUBJECT TO FIELD OBSERVATION AT ANY TIME BY OWNER'S REPRESENTATIVE.
6. ALL EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE AND PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS AND CONTROLS FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
7. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
8. ALL DOMESTIC COLD WATER, HOT WATER & HOT WATER CIRCULATING PIPING SHALL BE INSULATED TO MEET ENERGY CODE MINIMUMS. INSULATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS & PARTITIONS. INSTALL ALL WATER LINES ON EXTERIOR WALLS, INCLUDING LINES IN ATTIC OR ROOF, ON WARM SIDE (INSIDE) OF INSULATION.
9. PROVIDE AN APPROVED FIRE STOP ASSEMBLY FOR ANY PIPING PENETRATING RATED ASSEMBLIES.
10. ANY MATERIALS ROUTED THROUGH AIR PLENUMS SHALL BE PLENUM-RATED.
11. PROVIDE WATER HAMMER ARRESTORS FOR ALL SOLENOID VALVES AND QUICK CLOSING VALVES ON LINES OVER 1/2". ZURN Z1700 OR EQUIVALENT.
12. PROVIDE ASSE 1070 COMPLIANT DEVICE ON ANY PUBLIC HAND-WASHING FIXTURES. SET TEMPERATURE TO 110 DEG F OR LESS. MULTIPLE FIXTURES MAY BE CONNECTED DOWNSTREAM OF THE SAME DEVICE AS LONG AS DEVICE IS SIZED FOR THE MAXIMUM FLOW OF ALL CONNECTED FIXTURES. ZURN AQUA-GUARD ZW387OXLT OR EQUIVALENT.

PLUMBING SYMBOLS

	ELBOW DOWN
	ELBOW UP
	TEE DOWN
	TEE UP
	FULL PORT BALL VALVE
	HOT WATER CIRCULATION PUMP
SE	DESIGNATES SERVICE ENTRY. REF SITE UTILITY PLAN FOR ROUTING FROM METER TO SERVICE ENTRY LOCATION
	COLD WATER LINE (CW)
	HOT WATER LINE (HW)
	HOT WATER RETURN LINE (HWR)
	DOMESTIC WATER SUPPLY PIPE UNDERSLAB OR BELOW FLOOR
SS	SANITARY SEWER PIPE (SS)
GW	GREASE WASTE PIPE (GW)
	VENT PIPE (V)
	FUEL GAS PIPE (G)

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ARKANSAS

NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK:	DATE:	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: LNH
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SHEET TITLE:

PLUMBING SPECIFICATIONS

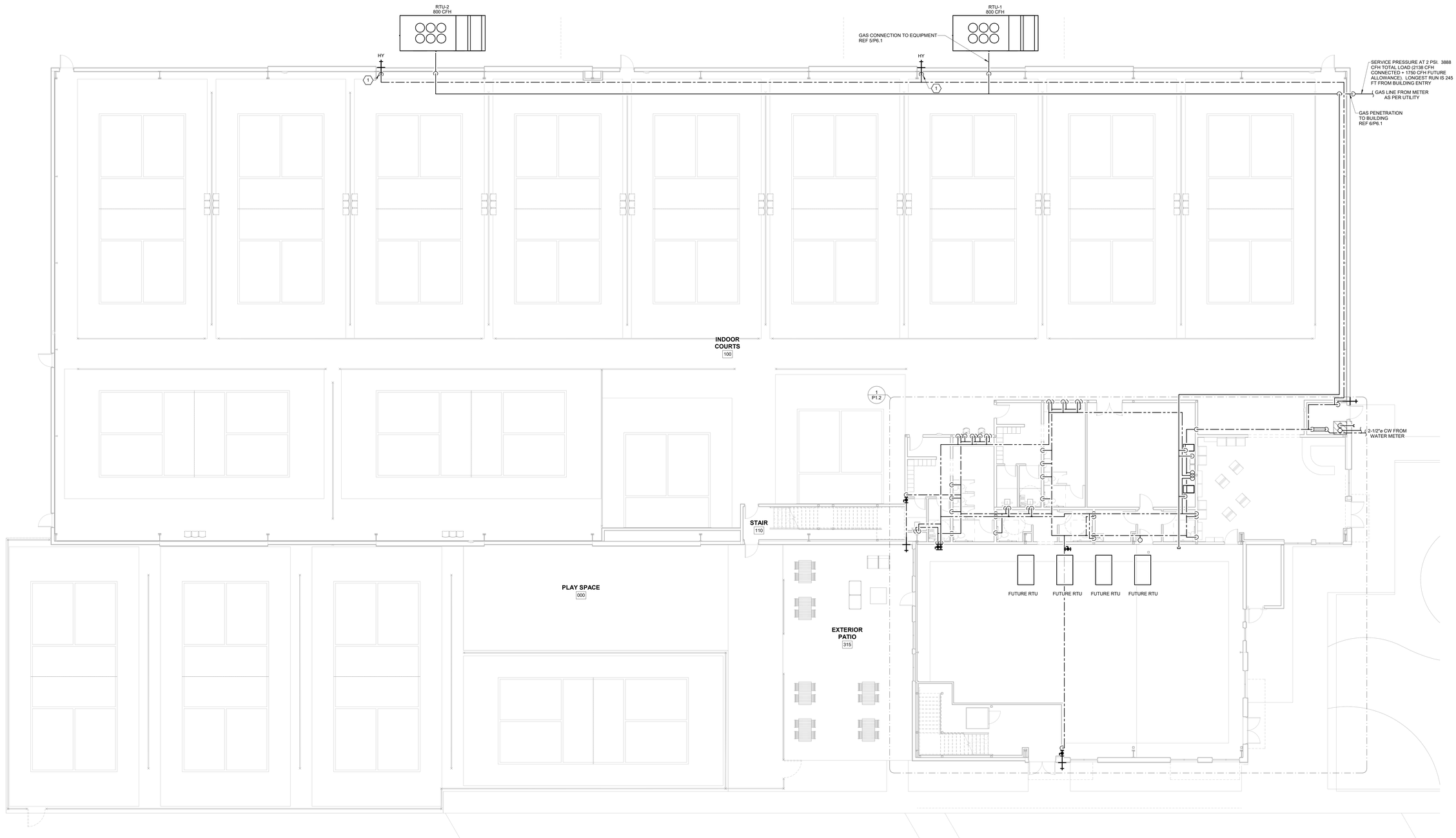
P0.1

SHEET KEYNOTES

1. PROVIDE BALL VALVE ON EXPOSED VERTICAL PIPE IN ACCESSIBLE LOCATION FOR HY SHUTOFF.

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

PLUMBING DRAWINGS INCLUDE THE LAYOUT OF PLUMBING FIXTURES AND EQUIPMENT, PRELIMINARY FIXTURE AND EQUIPMENT SELECTIONS, AND ROUGH PIPE ROUTING.



1 PLUMBING SUPPLY PLAN - BUILDING
1/8" = 1'-0"

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PLUMBING SUPPLY PLAN BUILDING

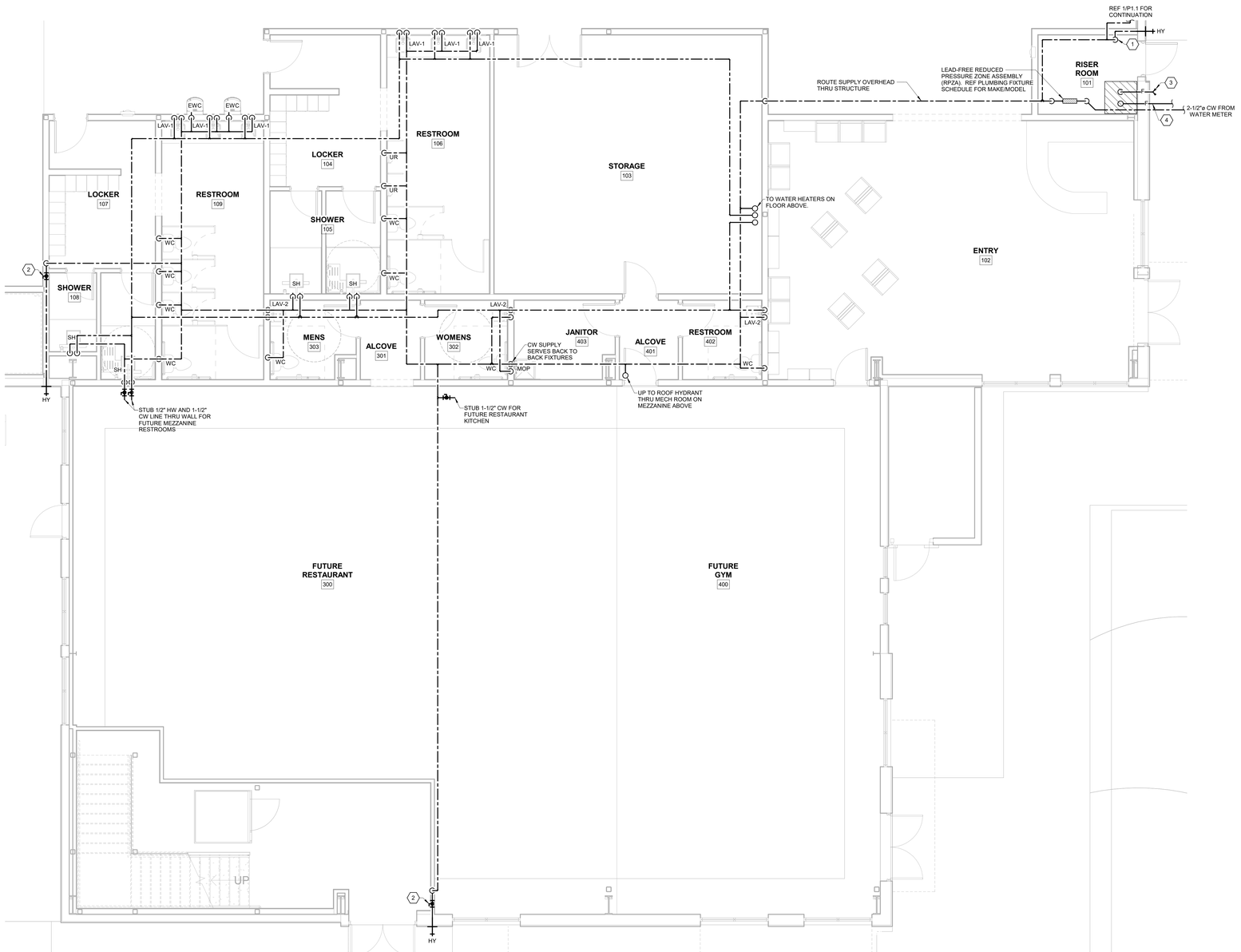
P1.1

SHEET KEYNOTES

1. PROVIDE BALL VALVE ON EXPOSED VERTICAL PIPE IN ACCESSIBLE LOCATION FOR HY SHUTOFF.
2. PROVIDE BALL VALVE IN WALL BEHIND ACCESS PANEL FOR HY SHUTOFF.
3. WALL-MOUNTED FDC. FDC FIXTURE BY CONTRACTOR. COORDINATE FINAL LOCATION OF FDC WITH LOCAL AHJ.
4. FIRE LINE FROM WATER MAIN TO FIRE RISER. SIZED BY SPRINKLER CONTRACTOR. REF CIVIL FOR CONTINUATION.

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PLUMBING DRAWINGS INCLUDE THE LAYOUT OF PLUMBING FIXTURES AND EQUIPMENT, PRELIMINARY FIXTURE AND EQUIPMENT SELECTIONS, AND ROUGH PIPE ROUTING.



1 PLUMBING SUPPLY PLAN - 1ST FLOOR ENGLARGED
1/4" = 1'-0"

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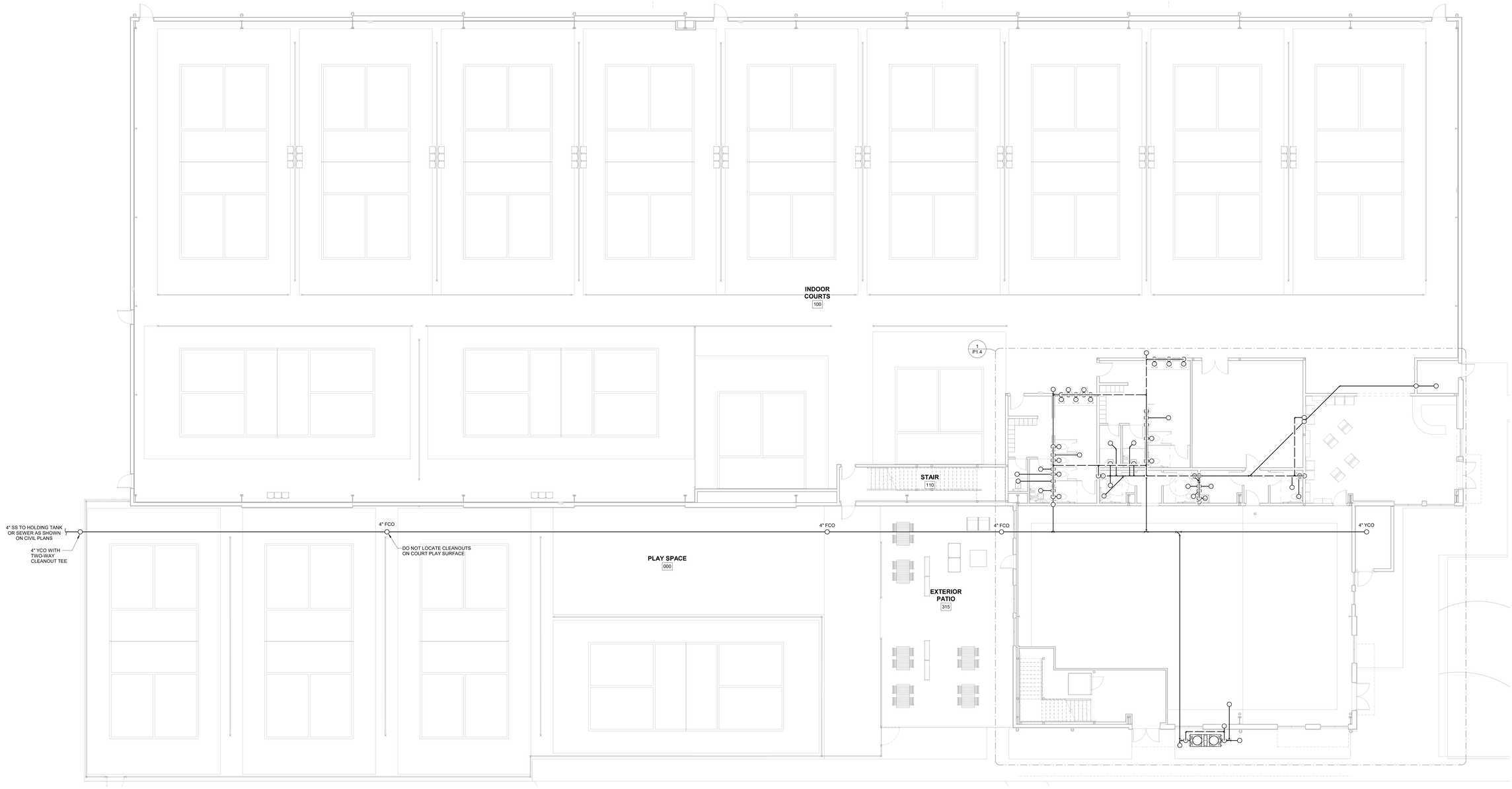
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SHEET TITLE:
PLUMBING SUPPLY PLAN FIRST FLOOR ENLARGED

P1.2

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PLUMBING DRAWINGS INCLUDE THE LAYOUT OF PLUMBING FIXTURES AND EQUIPMENT, PRELIMINARY FIXTURE AND EQUIPMENT SELECTIONS, AND ROUGH PIPE ROUTING.



1 PLUMBING WASTE/VENT PLAN - BUILDING
1/8" = 1'-0"

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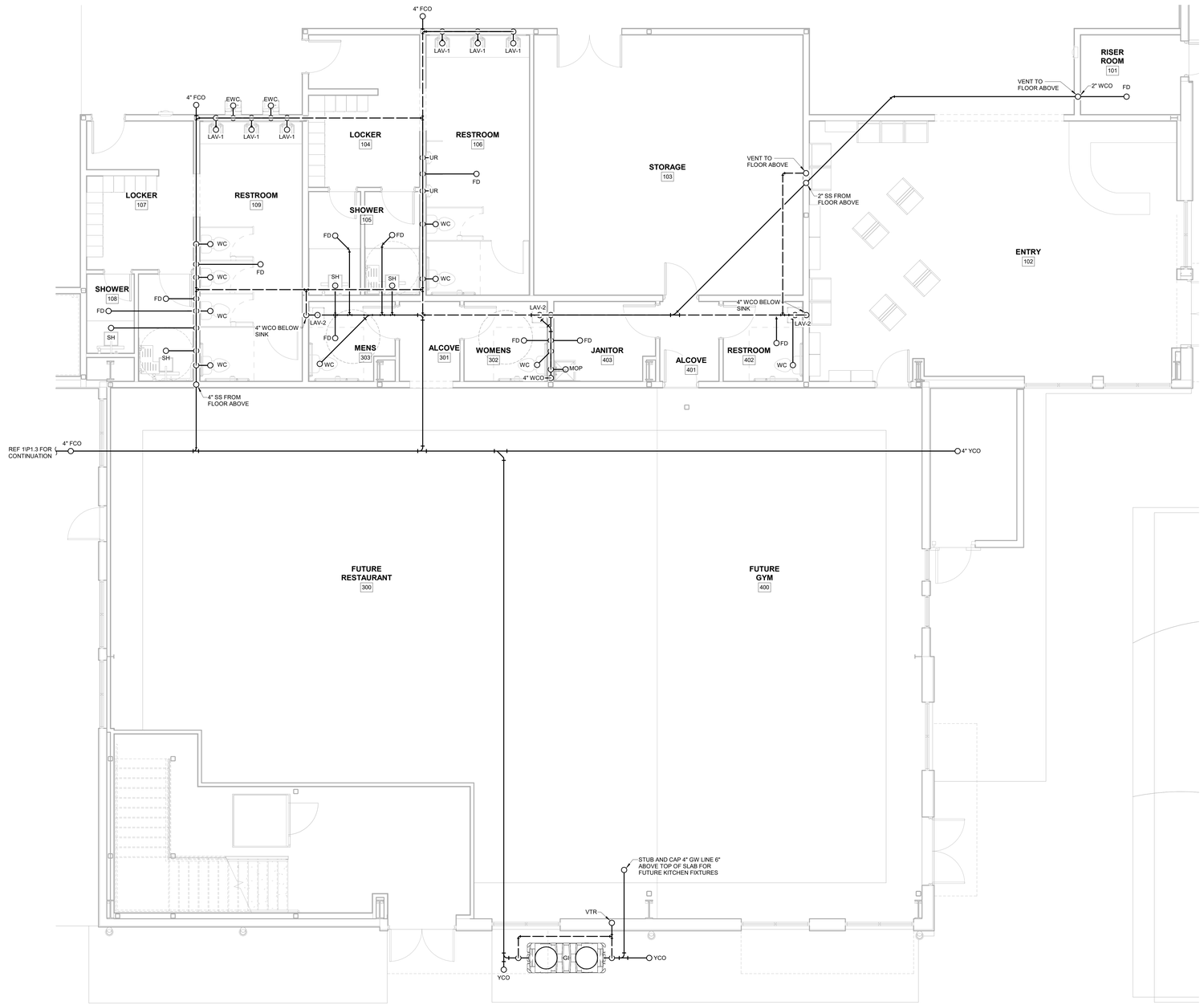
SHEET TITLE:

PLUMBING WASTE/VENT PLAN BUILDING

P1.3

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1 PLUMBING WASTE/VENT PLAN - 1ST FLOOR ENLARGED
1/4" = 1'-0"

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SHEET TITLE:

PLUMBING WASTE/VENT PLAN ENLARGED

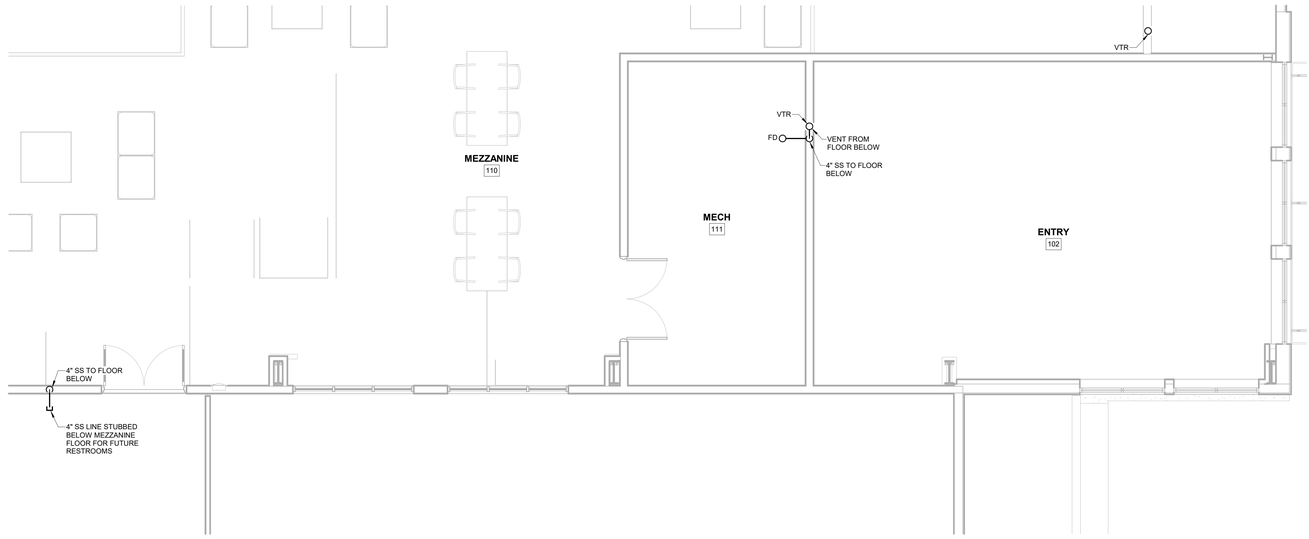
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SHEET KEYNOTES

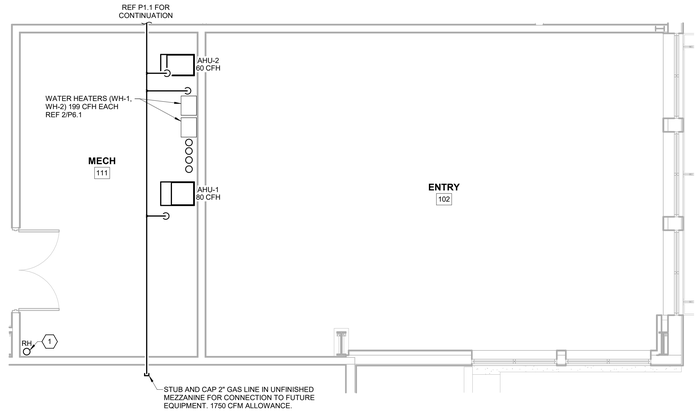
1. COLD WATER LINE TO ROOF HYDRANT (RH). PROVIDE BALL VALVE ON EXPOSED PIPE IN MECH ROOM.

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

PLUMBING DRAWINGS INCLUDE THE LAYOUT OF PLUMBING FIXTURES AND EQUIPMENT, PRELIMINARY FIXTURE AND EQUIPMENT SELECTIONS, AND ROUGH PIPE ROUTING.



2 PLUMBING WASTE/VENT PLAN - 2ND FLOOR
1/4" = 1'-0"



1 PLUMBING SUPPLY PLAN - 2ND FLOOR
1/4" = 1'-0"

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CLIENT JOB NUMBER: 25132

CONSULTANT:

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FORWARD ENGINEERS, PLLC
No. 2920
ARKANSAS

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DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
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PROJECT NUMBER: 251002
DRAWN BY: LNH
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SHEET TITLE:

PLUMBING PLANS MEZZANINE

P1.5

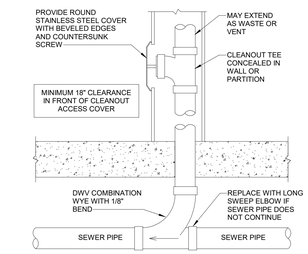
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE NAME	MANUFACTURER	MODEL	DESCRIPTION	CONNECTION SIZE (IN)			
					COLD	HOT	WASTE	VENT
EWC	ELECTRIC WATER COOLER WITH FILLING STATION	ELKAY	EZS8WSLK	ELKAY EZH2O BOTTLE FILLING STATION WITH SINGLE ADA COOLER, NON-FILTERED. CHILLING CAPACITY OF 8.0 GPH OF 50 DEG F DRINKING WATER, FURNISHED WITH FLEXI-GUARD SAFETY BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, WALL MOUNT, CERTIFIED TO UL 399, LEAD-FREE DESIGN CERTIFIED TO NSF/ANSI 61 & 372. CARRIER: ELKAY MLP100 FOR WATER COOLERS, SINGLE-STATION COOLER SUPPORT. MISC: INCLUDE ELKAY CANE APRON, MODEL LKAPREZL.	1/2	--	1-1/2	1-1/4
FCO	ADJUSTABLE FLOOR CLEAN OUT	ZURN	Z1400-BZ1	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, GAS AND WATERTIGHT PVC TAPERED THREAD PLUG, POLISHED BRONZE TOP (ZB).	--	--	MATCH PLANS	--
FD	ADJUSTABLE FLOOR DRAIN	ZURN	Z415-BZ1	GENERAL PURPOSE FLOOR DRAIN, CAST IRON BODY COMPATIBLE WITH PLASTIC PIPE CONNECTION, COORDINATE STRAINER MATERIAL WITH ARCH/OWNER. TRAP GUARD: ZURN ZSHIELD BARRIER TRAP SEAL DEVICE FOR FLOOR DRAINS, MODEL Z1072.	--	--	2	1-1/2
GI	GREASE INTERCEPTOR	SCHIER	GB-250	HYDROMECHANICAL GREAT INTERCEPTOR MADE OF SEAMLESS, ROTATIONALLY-MOLDED POLYETHYLENE WITH MINIMUM 3/8" UNIFORM WALL THICKNESS. INTERCEPTOR SHALL BE FURNISHED FOR ABOVE OR BELOW-GRADE INSTALLATION WITH ADJUSTABLE COVER ADAPTERS, BUILT-IN FLOW CONTROL AND OUTLETS AS SHOWN ON PLANS. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE D FOR 100 GPM, TYPE C FOR 200 GPM). INTERCEPTOR FLOW RATE SHALL BE 100 GPM OR 200 GPM. INTERCEPTOR GREASE CAPACITY SHALL BE 1,895 LBS. @ 100 GPM OR 1,196 LBS. @ 200 GPM. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS. LOAD CAPACITY.	--	--	4	2
HY	FREEZE-PROOF WALL HYDRANT	ZURN	Z1320XL-NB	ENCASED, ECOLOTROL, LEAD-FREE, NON-FREEZE AUTOMATIC DRAINING WALL HYDRANT, INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY, 3/4" MALE HOSE CONNECTION, FURNISHED WITH LOCKING HINGED COVER STAMPED "WATER" AND INCLUDES OPERATING KEY, POLISHED NICKEL BRONZE FACE (-NB). PROVIDE FULL PORT ISOLATION BALL VALVE UPSTREAM IN ACCESSIBLE LOCATION, PROVIDE ACCESS PANEL IF REQUIRED, OATEY 34045 OR SIMILAR.	3/4	--	--	--
LAV-1	UNDERMOUNT LAVATORY	SLOAN	SS-3021	21-5/8" X 15-3/4" VITREOUS CHINA UNDERMOUNT LAVATORY WITH FRONT OVERFLOW. FAUCET: ZURN #Z82200-XL, POLISHED CHROME PLATED SINGLE CONTROL LAVATORY FAUCET WITH 5" INTEGRAL SPOUT, A CERAMIC DISC CARTRIDGE AND TEMPERATURE LIMIT STOP, 2.2 GPM PRESSURE COMPENSATING AERATOR, ADA COMPLIANT LEVER HANDLE, SUPPLY KIT: PROVIDE ZURN #ZH8820-XL-LRLK-8860-12-PC LEAD FREE HEAVY-DUTY LOOSE KEY STOP AND LAVATORY SUPPLY KIT. TRAP: ZURN #Z8946-3-NT ADA COMBINATION OFFSET TRAP AND SUPPLY WRAP PROTECTOR KIT.	1/2	1/2	1-1/2	1-1/4
LAV-2	ADA COMPLIANT WALL-HUNG LAVATORY	AMERICAN STANDARD	9024.001EC	20" X 18-1/4" VITREOUS CHINA WALL HUNG LAVATORY. PROVIDED WITH HOLES FOR CONCEALED ARM CARRIER SYSTEMS. FAUCET: ZURN #Z82200-XL, POLISHED CHROME PLATED SINGLE CONTROL LAVATORY FAUCET WITH 5" INTEGRAL SPOUT, A CERAMIC DISC CARTRIDGE AND TEMPERATURE LIMIT STOP, 2.2 GPM PRESSURE COMPENSATING AERATOR, ADA COMPLIANT LEVER HANDLE, CARRIER: ZURN Z1231 CONCEALED ARM SYSTEM FOR WALL LAVATORIES. SUPPLY KIT: PROVIDE ZURN #ZH8820-XL-LRLK-8860-12-PC LEAD FREE HEAVY-DUTY LOOSE KEY STOP AND LAVATORY SUPPLY KIT. TRAP: ZURN #Z8946-3-NT ADA COMBINATION OFFSET TRAP AND SUPPLY WRAP PROTECTOR KIT.	1/2	1/2	1-1/2	1-1/4
MOP	MOP SERVICE BASIN	ZURN	1996-24	MOP SERVICE BASIN 24 X 24 X 10, MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STRAINER AND 3" GASKETED OUTLET CONNECTION. FAUCET: ZURN CHROME PLATED SERVICE FAUCET, COMPLETE WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, FOUR-ARM HOT AND COLD HANDLES AND 3/4" HOSE THREAD ON SPOUT, MODEL Z1996-SF.	1/2	1/2	3	1-1/2
RH	FREEZE-PROOF ROOF HYDRANT	ZURN	Z1388	EXPOSED, LEAD-FREE, NON-FREEZE ROOF HYDRANT, WITH DURA-COATED CAST IRON HEAD AND LIFT HANDLE WITH LOCKING OPTIONS, 3/4" MALE HOSE CONNECTION. BRONZE INTERIOR PARTS, GALVANIZED STEEL CASING, VALVE HOUSING 1/8" IP DRAIN PORT IN HOUSING. PROVIDE FULL PORT ISOLATION BALL VALVE UPSTREAM IN ACCESSIBLE LOCATION.	3/4	--	--	--
RPZA	REDUCED PRESSURE ZONE ASSEMBLY	WILKINS	975XL3	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER, CERTIFIED TO NSF/ANSI 61, NSF/ANSI 372, ASSE LISTED 1013 AND APPROVED BY THE FOUNDATION FOR CROSS CONNECTION CONTROL AT UNIVERSITY OF SOUTHERN CALIFORNIA, RATED TO 180°F, SUPPLIED WITH FULL PORT ISOLATION VALVES. INCLUDE BRONZE "Y" TYPE STRAINER AND AIR GAP ADAPTER.	1-1/2	--	--	--
SH	ADA COMPLIANT SHOWER	ZURN	Z7300-SSC-HW11-H2-MT-VB	SINGLE HANDLE PRESSURE BALANCING MIXING SHOWER UNIT WITH ADJUSTABLE LIMIT STOP, ASSE 1016 COMPLIANT, VALVE ROTATES FROM COLD THROUGH TO THE HOT POSITION WHEN TURNED ON, FOUR PORT VALVE WITH A TUB PORT PLUG INCLUDED FOR SHOWER ONLY APPLICATIONS. SHOWER HEAD: ZURN #Z7000-HW11-H2 HAND/WALL SHOWER UNIT CONSISTING OF PLASTIC CHROME PLATED HAND-HELD SHOWER HEAD WITH 2.5 GPM PRESSURE COMPENSATING FLOWRATE AND ADJUSTABLE SPRAY PATTERN, INCLUDES SWIVEL CONNECTION, 69" FLEXIBLE METAL HOSE, 30" MOUNTING BAR WALL CONNECTION, HAND SHOWER HEAD WITH SHUT OFF. DRAIN: ZURN Z415-BZ1 SHOWER DRAIN, STAINLESS STEEL STRAINER. BASE: SPECIFIED BY ARCHITECT, ADA COMPLIANT. MISC: GRAB BARS, SEAT, SOAP HOLDER, ETC AS COORDINATED WITH ARCHITECT.	1/2	1/2	2	1-1/2
UR	FLUSH VALVE URINAL	ZURN	Z5755-U	OMNI-FLO TOP SPUD URINAL, VITREOUS CHINA, WALL-HUNG, INTEGRAL TRAP, WASHDOWN URINAL WITH 3/4" TOP SPUD CONNECTION, CONCEALED UNIVERSAL RETROFIT WALL BRACKET, 2" OUTLET CONNECTION AND VANDAL RESISTANT OUTLET STRAINER. FLUSH VALVE: ZURN ZTR6203 EXPOSED SENSOR URINAL FLUSH VALVE, 0.5 GPF, ADA COMPLIANT.	3/4	--	2	1-1/2
WC	ADA COMPLIANT FLOOR MOUNTED FLUSH VALVE WATER CLOSET	ZURN	Z5666-BWL	VITREOUS CHINA, ADA HEIGHT, FLOOR MOUNTED, BOTTOM OUTLET TOILET WITH SIPHON JET FLUSHING ACTION AND ELONGATED FRONT RIM WITH 1-1/2" SPUD, 1.28 GALLONS PER FLUSH. VALVE: ZURN ZTR6200SV SENSOR OPERATED EXPOSED WATER CLOSET FLUSH VALVE, CHROME PLATED FLUSHOMETER VALVE, ADA COMPLIANT, HIGH BACK PRESSURE VACUUM BREAKER, ONE PIECE HEX COUPLING NUT, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE FOR TOP SPUD CONNECTION, SENSOR BATTERY POWERED. SEAT: ZURN COMMERCIAL HEAVY DUTY TOILET SEAT, ELONGATED, STANDARD WHITE, OPEN FRONT, LESS COVER, STAINLESS STEEL CHECK HINGE, ANTI-MICROBIAL PROTECTION, MODEL Z5955SS-EL-AM. MISC: PROVIDE ZURN Z5972-COMB CLOSET BOLT/WAX RING KIT.	2	--	4	2
WCO	WALL CLEANOUT	BY CONTRACTOR	--	WALL CLEANOUT WITH PLUG AND STAINLESS STEEL COVER. MATCH SIZE TO PIPE, REF DRAWINGS.	--	--	MATCH PLANS	--
YCO	YARD CLEANOUT	BY CONTRACTOR	--	CLEANOUT ADAPTER WITH PLUG. MATCH MATERIAL TO PIPE. MATCH SIZE TO PIPE, REF DRAWINGS.	--	--	MATCH PLANS	--

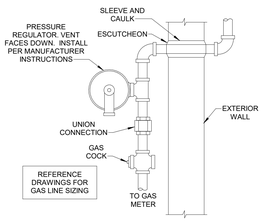
Verify lavatory selection. Public lavatories are recommended to have concealed arm carriers.

GAS-FIRED, DOMESTIC-WATER HEATER SCHEDULE

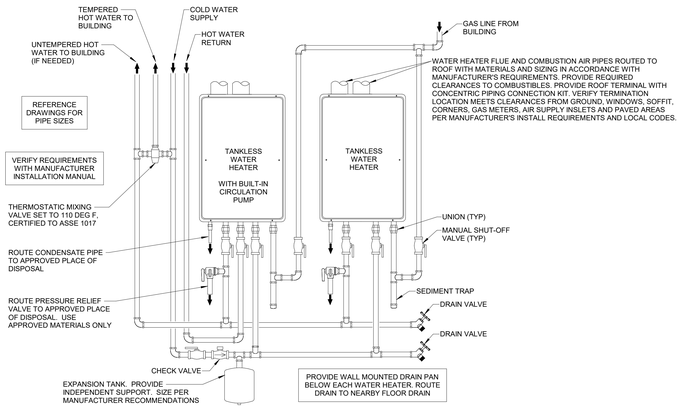
MARK	DESCRIPTION	BASIS OF DESIGN		STORAGE CAPACITY (GAL)	RECOVERY AT 60 DEG F RISE (GPH)	TEMPERATURE SETTING (DEG F)	FUEL	INPUT (BTU/HR)	EFFICIENCY	NOTES
		MANUFACTURER	MODEL							
WH-1	NATURAL GAS, TANKLESS, WATER HEATER	RHEEM	RTGH-CSR11i	N/A	SEE NOTES	140	NATURAL GAS	199900	96%	TANKLESS CONDENSING WATER HEATER WITH INTEGRAL RECIRCULATION PUMP, 3/4" GAS CONNECTION, 120V POWER REQUIRED. PROVIDE SERVICE VALVES AND FIELD INSTALLED TEMPERATURE/PRESSURE RELIEF VALVE. PROVIDE VERTICAL CONCENTRIC VENT KIT, SIZE AND ROUTE PER MANUFACTURER.
WH-2	NATURAL GAS, TANKLESS, WATER HEATER	RHEEM	RTGH-CS11i	N/A	SEE NOTES	140	NATURAL GAS	199900	96%	TANKLESS CONDENSING WATER HEATER, 3/4" GAS CONNECTION, 120V POWER REQUIRED. PROVIDE SERVICE VALVES AND FIELD INSTALLED TEMPERATURE/PRESSURE RELIEF VALVE. PROVIDE VERTICAL CONCENTRIC VENT KIT, SIZE AND ROUTE PER MANUFACTURER.



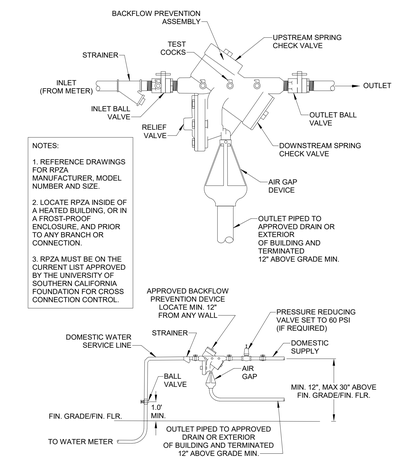
7 WALL CLEANOUT
NTS



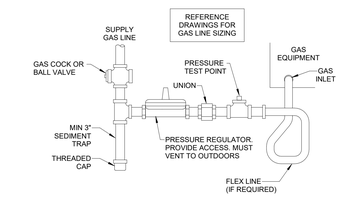
6 GAS PENETRATION TO BUILDING
NTS



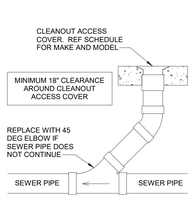
2 GAS TANKLESS WATER HEATER (2x w/ Circulation)
NTS



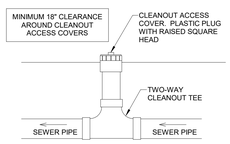
1 REDUCED PRESSURE ZONE ASSEMBLY (RPZA) - HORIZONTAL
NTS



5 GAS EQUIPMENT CONNECTION
NTS



4 FLOOR CLEANOUT
NTS



3 TWO-WAY YARD CLEANOUT
NTS

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CLIENT JOB NUMBER: 25132

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No. 2820
ARKANSAS

NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

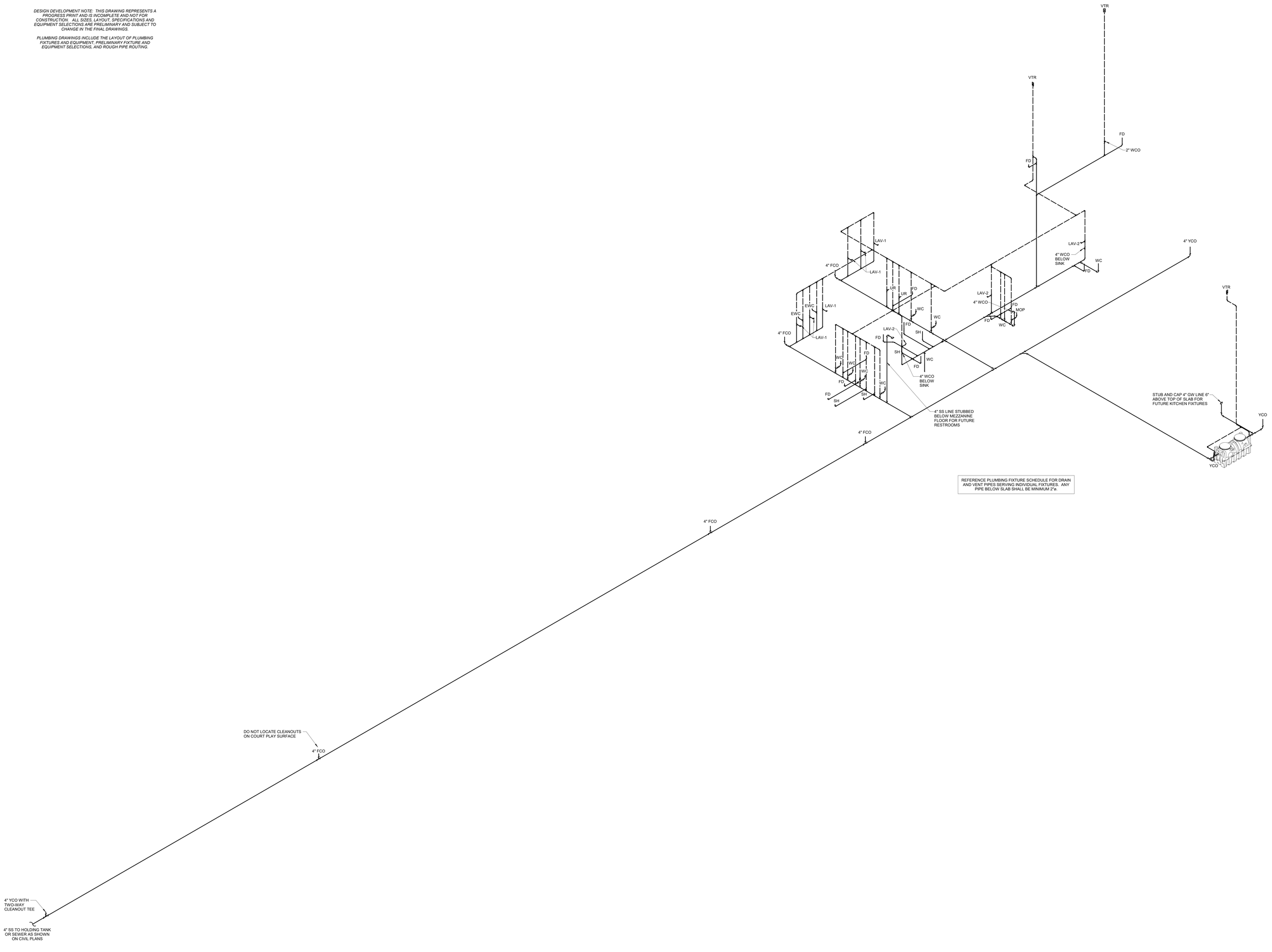
PROJECT NUMBER: 251002
DRAWN BY: LNH
CHECKED BY: KNJ

SHEET TITLE:
PLUMBING SCHEDULES AND DETAILS

P6.1

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

PLUMBING DRAWINGS INCLUDE THE LAYOUT OF PLUMBING FIXTURES AND EQUIPMENT, PRELIMINARY FIXTURE AND EQUIPMENT SELECTIONS, AND ROUGH PIPE ROUTING.



1 PLUMBING WASTE/VENT RISER DIAGRAM
NTS

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NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: LNH
CHECKED BY: KNJ
SHEET TITLE:

PLUMBING WASTE/VENT RISER

P9.1

DIVISION 23 - MECHANICAL

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SUBMITTALS

1. Prior to procurement and if required by general contractor, contractor shall submit product data for review for all equipment, including the following:
   A. Split systems (air handling units & condensing units).
   B. Packaged, outdoor air handling units.
   C. Exhaust fans.
   D. Diffusers, registers and grilles.
   E. Unit heaters.

SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

3.1 GENERAL PROCEDURES FOR TESTING AND BALANCING

A. Perform testing and balancing procedures on each system according to the procedures contained in AABC's "National Standards for Total System Balance," ASHRAE 111, NEBB's "Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems" or SMACNA's "HVAC Systems - Testing, Adjusting, and Balancing" and in this Section.
B. Mark equipment and balancing devices, including damper-control positions, valve position indicators, fan-speed-control levers, and similar controls and devices, with paint or other suitable, permanent identification material to show final settings.

3.2 TOLERANCES

A. Set HVAC system airflow and water flow rates within the following tolerances:
   1. Supply, Return, and Exhaust Fans and Equipment with Fans: Plus or minus 10 percent.
   2. Air Outlets and Inlets: Plus or minus 10 percent.

SECTION 230700 - HVAC INSULATION

2.1 PERFORMANCE REQUIREMENTS

A. Surface-Burning Characteristics:
   1. Indoor Insulation and Related Materials: To be factory-labeled designating maximum flame-spread index of 25 or less and smoke-developed index of 50 or less according to ASTM E 84.
   2. Outdoor Insulation and Related Materials: To be factory labeled designating maximum flame-spread index of 75 or less and smoke-developed index of 150 or less according to ASTM E 84.

2.2 INSULATION MATERIALS

A. Mineral-Fiber Blanket Insulation: Comply with ASTM C 553, Type II and ASTM C 1290, Type I.

3.1 INSULATION INSTALLATION

A. Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated): Install insulation continuously through walls and partitions.
B. Insulation Installation at Fire-Rated Wall, Partition, and Floor Penetrations: Install insulation continuously through penetrations.
C. Mineral-Fiber Insulation Installation:
   1) Blanket and Board Insulation Installation on Ducts and Plenums: Secure with adhesive and insulation pins.
   2) For ducts and plenums with surface temperatures below ambient, install a continuous, unbroken vapor barrier.
D. Plenums and Ducts Requiring Insulation:
   1. Concealed and exposed supply and outdoor air.
   2. Concealed and exposed return air located in nonconditioned space.
   3. Concealed and exposed exhaust between isolation damper and penetration of building exterior.
E. Plenums and Ducts Not Insulated:
   1. Metal ducts with duct liner.
   2. Factory-insulated plenums and casings.
   3. Flexible connectors.
   4. Vibration-control devices.
   5. Factory-insulated access panels and doors.

3.2 DUCT AND PLENUM INSULATION SCHEDULE

A. Concealed duct insulation shall be one of the following:
   1. Mineral-Fiber Blanket: 1-1/2 inches thick and 1.5-lb/cu. ft. nominal density.
B. Exposed duct insulation shall be one of the following:
   1. Fibrous-Glass Liner Duct: 1 inch thick.
   2. Interstitial insulation between double wall duct: Maximum thermal conductivity of 0.27 Btu x in./h x sq. ft. x deg F at 75 deg F mean temperature.

SECTION 232113 - PIPING

2.1 PERFORMANCE REQUIREMENTS

A. Hydronic piping components and installation shall be capable of withstanding the following minimum working pressure and temperature:
   1. Condensate-Drain Piping: 150 deg F.

2.2 PIPES, TUBES, AND FITTINGS

A. CPVC Pipe: ASTM F 441/F 441M, Schedule 40, plain ends with ASTM F 438, socket-type solvent welding fittings. Suitable for installation within plenums.
   1. CPVC solvent cement shall have a VOC content of 490 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
   2. Adhesive primer shall have a VOC content of 550 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
B. Soft Copper Tubing: ASTMB88, TypesK and L (ASTMB88M, TypesA and B), water tube, annealed temper with copper pressure fittings, cast-copper-alloy or wrought-copper, solder-joint fittings. Furnish wrought-copper fittings if indicated.
   1. Joining Materials: Use ASTMB813, water-flushable, lead-free flux; ASTMB32, lead-free-alloy solder.
C. PVC Pipe: ASTM D 1785, Schedule 40, plain ends with ASTM F 438, socket-type solvent welding fittings.
   1. PVC solvent cement shall have a VOC content of 510 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
   2. Adhesive primer shall have a VOC content of 550 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

3.1 INSTALLATION

A. Install piping in concealed locations unless otherwise indicated and except in equipment rooms and service areas.
B. Install piping free of sags and bends and install fittings for changes in direction and branch connections.
C. Install piping at a uniform slope of 0.2 percent downward in the direction of flow.
D. Sleeve-Seal-System Installation:
   1. Install sleeve-seal systems in sleeves in exterior concrete walls and slabs-on-grade at piping entries into building.
   2. Select type, size, and number of sealing elements required for piping material and size and for sleeve ID or hole size.

3.2 PIPING SCHEDULE

A. Condensate Drain Lines:
   1. Within Plenum: CPVC pipe with solvent-welded joints.
   2. Other: PVC pipe with solvent-welded joints.

SECTION 233100 - HVAC DUCTS AND CASINGS

2.1 PERFORMANCE REQUIREMENTS

A. Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
C. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1.
E. ASHRAE/IESNA Compliance: Applicable requirements in ASHRAE/IESNA 90.1, Section 6.4.4 - "HVAC System Construction and Insulation."
F. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilating Systems" and with NFPA 90B, "Installation of Warm Air Heating and Air Conditioning Systems."
G. Comply with NFPA 96 for ducts connected to commercial kitchen hoods.
H. Comply with UL 181 for ducts and closures.

2.2 DUCTS

A. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip galvanized coating.
   1. Galvanized Coating Designation: G60.
   2. Finishes for Surfaces Exposed to View: Mill phosphatized or suitable for painting as per Architect
B. Joint and Seam Tape, and Sealant: Comply with UL 181A.
C. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
D. Fibrous-Glass Liner: Comply with NFPA 90A or NFPA 90B and with NAMA AH124.
   1. Thickness: 1 inch.
   2. Airstream surface coated with an antimicrobial erosion-resistant coating.
   3. Liner Adhesive: Comply with NFPA 90A or NFPA 90B and with ASTM C 916.
   4. Mechanical Fasteners: Galvanized steel suitable for adhesive attachment, mechanical attachment, or welding attachment.

2.3 ACCESSORIES

A. Volume Dampers and Control Dampers: Single-blade and multiple opposed-blade dampers, standard leakage rating, and suitable for horizontal or vertical applications; factory fabricated and complete with required hardware and accessories.
B. Fire Dampers: Rated and labeled according to UL 555 by an NRTL; factory fabricated and complete with required hardware and accessories.
C. Ceiling Fire Dampers: Rated according to UL 555C by an NRTL and complying with construction details for tested floor- and roof-ceiling assemblies as indicated in UL's "Fire Resistance Directory." Provide factory-fabricated units complete with required hardware and accessories.
D. Smoke Dampers: Labeled according to UL 555S by an NRTL. Combination fire and smoke dampers shall also be rated and labeled according to UL 555. Provide factory-fabricated units complete with required hardware and accessories.
E. Flexible Connectors: Flame-retarded or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
F. Flexible Ducts: Factory-fabricated, insulated, round duct, with an outer jacket enclosing 1-inch-thick, glass-fiber insulation around a continuous inner liner complying with UL 181, Class 1.

3.1 INSTALLATION

A. Install ducts according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" unless otherwise indicated.
B. Seal ducts to the following seal classes according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible":
   1. Outdoor, Supply-Air Ducts: Seal Class A.
   2. Outdoor, Exhaust Ducts: Seal Class C.
   3. Outdoor, Return-Air Ducts: Seal Class C.
   4. Unconditioned Space, Supply-Air Ducts in Pressure Classes 2-Inch wg and Lower: Seal Class B.
   5. Unconditioned Space, Supply-Air Ducts in Pressure Classes Higher Than 2-Inch wg: Seal Class A.
   6. Unconditioned Space, Exhaust Ducts: Seal Class C.
   7. Unconditioned Space, Return-Air Ducts: Seal Class B.
   8. Conditioned Space, Supply-Air Ducts in Pressure Classes 2-Inch wg and Lower: Seal Class C.
   9. Conditioned Space, Supply-Air Ducts in Pressure Classes Higher than 2-Inch wg : Seal Class B.
   10. Conditioned Space, Exhaust Ducts: Seal Class B.
   11. Conditioned Space, Return-Air Ducts: Seal Class C.
C. Conceal ducts from view in finished and occupied spaces unless otherwise indicated.
D. Exposed duct shall be square or round as shown on plans with duct liner or double wall with interstitial insulation.
E. Avoid passing through electrical equipment spaces and enclosures.
F. Support ducts to comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Ch. 4, "Hangers and Supports."
G. Install duct accessories according to applicable details in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" for metal ducts.
H. Install volume and control dampers in lined duct with methods to avoid damage to liner and erosion of duct liner.
I. Install fire and smoke dampers according to UL listing. Provide access panel as required.
J. Install fusible links in fire dampers.
K. Clean new and existing duct system(s) before testing, adjusting, and balancing.

SECTION 233423 - HVAC POWER VENTILATORS

2.1 PERFORMANCE REQUIREMENTS

A. Products shall be licensed to use the AMCA-Certified Ratings Seal.
B. Roof-mounted, wall-mounted, duct fans and dryer exhaust power ventilators shall comply with UL 705.
C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 POWER VENTILATORS

A. Refer to FAN SCHEDULE.

3.1 INSTALLATION

A. Install units with clearances for service and maintenance.
B. Roof-Mounted Units: Install roof curb on roof structure, according to ARI Guideline B or NRCA's "Low-Slope Membrane Roofing Construction Details Manual," Illustration "Raised Curb Detail for Rooftop Air Handling Units and Ducts." Install and secure roof-mounted fans on curbs, and coordinate roof penetrations and flashing with roof construction.
C. In-Line Centrifugal Fans: Suspend units from structural-steel support frame using threaded steel rods and vibration isolation springs.
D. Ceiling-Mounted Units: Suspend units from structure using steel wire or metal straps.
E. Ground power ventilators.

SECTION 233713 - DIFFUSERS, REGISTERS, AND GRILLES

2.1 DIFFUSERS, REGISTERS AND GRILLES

A. Refer to AIR DEVICE SCHEDULE.

3.1 INSTALLATION

A. Ceiling-Mounted Outlets and Inlets: Drawings indicate general arrangement of ducts, fittings, and accessories. Make final locations where indicated, as much as practical. For units installed in lay-in ceiling panels, locate units in the center of panel unless otherwise indicated. Where architectural features or other items conflict with installation, notify Architect for a determination of final location.
B. After installation, adjust diffusers, registers, and grilles to air patterns indicated, or as directed, before starting air balancing.

SECTION 235416.13 - GAS FIRED FURNACES

1.1 QUALITY ASSURANCE

A. ASHRAE/IES 90.1 Compliance: Applicable requirements in ASHRAE/IES 90.1, Section 6 - "Heating, Ventilating, and Air-Conditioning."
B. Comply with NFPA 70.

2.1 ASSEMBLY DESCRIPTION

A. Factory assembled, piped, wired, and tested.
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 FURNACES

A. Refer to AIR HANDLING UNIT SCHEDULE.

2.3 ACCESSORIES

A. Controls shall comply with requirements in ASHRAE/IES 90.1, "Controls."
B. Single-Stage, Heating-Cooling Thermostat: Adjustable, heating-cooling, wall-mounted unit with fan on-automatic selector.
C. Control Wiring: Balanced twisted pair cabling.
D. Line Voltage Thermostat: Adjustable heat anticipator, 24 AWG, 100 ohm, four pair.

2.4 AIR FILTERS

A. Disposable Filters: 1-inch-thick fiberglass media with ASHRAE 52.2 MERV rating of 8 or higher, in sheet metal frame.

2.5 REFRIGERATION COMPONENTS

A. General Refrigeration Component Requirements:
   1. Refrigeration components, coils, and specialties shall be designed to operate with CFC-free refrigerants.
   2. Energy Efficiency: Equal to or greater than prescribed by ASHRAE/IES 90.1.
B. Refrigerant Line Kits: Annealed-copper suction and liquid lines factory cleaned, dried, pressurized with nitrogen, sealed, and with suction line insulated. Provide in standard lengths for installation without joints, except at equipment connections.
   1. Flexible Elastomeric: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534/C 534M, Type I, minimum 1 inch thick.
C. Air-Cooled Compressor-Condenser Unit:
   1. Refer to AIR-TO-AIR CONDENSING UNIT SCHEDULE for units without heat-pump components.
   2. Refer to AIR-TO-AIR HEAT PUMP UNIT SCHEDULE for units with heat-pump components.

3.1 EXAMINATION

A. Examine roughing-in for refrigerant piping systems to verify actual locations of piping connections before equipment installation.

3.2 INSTALLATION

A. Suspended Units: Suspend from structure using threaded rods, spring hangers, and building attachments. Secure rods to unit hanger attachments. Adjust hangers so unit is level and plumb.
B. Controls: Install thermostats and humidistats at mounting height of 60 inches above floor or as shown on plans.
C. Wiring Method: Install control wiring in accessible ceiling spaces and in gypsum board partitions where unenclosed wiring method may be used. Conceal control wiring except in unfinished spaces.

3.3 CONNECTIONS

A. Install piping adjacent to equipment to allow service and maintenance.
B. Connect refrigerant tubing kits to refrigerant coil in furnace and to air-cooled compressor-condenser unit using one of the following methods.
   1. Flared Joints: Use ASME B16.26 fitting and flared ends, following procedures in CDA's "Copper Tube Handbook."
   2. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," "Pipe and Tube" Chapter, using copper-phosphorous brazing filler metal complying with AWS A5.8/A5.8M.

3.4 ADJUSTING

A. Adjust initial temperature set points.
B. Set controls, burner, and other adjustments for optimum heating performance and efficiency. Adjust heat-distribution features, including shutters, dampers, and relays, to provide optimum heating performance and system efficiency.

SECTION 238239 - UNIT HEATERS

2.1 PERFORMANCE REQUIREMENTS

A. Assembly including chassis, electric heating coil, fan, motor, and controls. Comply with UL 2021.
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 WALL AND CEILING UNIT HEATERS

A. Refer to UNIT HEATER SCHEDULE

3.1 INSTALLATION

A. Install wall and ceiling unit heaters to comply with NFPA 90A.
B. Install wall-mounted thermostats and switch controls in electrical outlet boxes at heights to match lighting controls. Verify location of thermostats and other exposed control sensors with Drawings and room details before installation.

SECTION 237413 - PACKAGED, OUTDOOR, AIR-HANDLING UNITS

2.1 PERFORMANCE REQUIREMENTS

A. Wind-Restraint Performance:
   Obtain values for items in subparagraphs below from Project structural engineer or from ASCE/SEI 7.
   1. Basic Wind Speed: 145 MPH. Building Classification Category: I.
   2. Minimum 10 lb/sq. ft. multiplied by the maximum area of the mechanical component projected on a vertical plane that is normal to the wind direction, and 45 degrees either side of normal.
B. Seismic Performance: RTUs shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
C. ARI Compliance: ARI 210/240 and ARI 340/360 for testing and rating energy efficiencies for RTUs; ARI 270 for testing and rating sound performance for RTUs.
D. Comply with ASHRAE 15.
   1. Comply with applicable requirements in ASHRAE 62.1, Section 5 - "Systems and Equipment" and Section 7 - "Construction and Startup."
E. ASHRAE/IESNA 90.1 Compliance:
   1. Applicable requirements in ASHRAE/IESNA 90.1, Section 6 - "Heating, Ventilating, and Air-Conditioning."
   2. Energy-Efficiency Ratio (EER): Equal to or greater than prescribed by ASHRAE/IESNA 90.1, "Energy Standard for Buildings except Low-Rise Residential Buildings."
F. NFPA Compliance: Comply with NFPA 90A and NFPA 90B.
G. Comply with NFPA 70, by a testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.

2.2 PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

A. Refer to ROOFTOP UNIT SCHEDULE.

2.3 COMPONENTS

A. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1.
B. Fan Motors: Comply with NEMA MG 1 unless otherwise indicated by authorities having jurisdiction. Continuous duty at ambient temperature of 40 deg C and at altitude of 3300 feet above sea level.
C. Refrigerant Coils: Aluminum-plate fin and seamless copper tube in steel casing with equalizing-type vertical distributor.
D. Gas Furnace: Comply with ANSI Z21.47 and NFPA 54.
E. Electrical Power Connection: Provide for single connection of power to unit with unit-mounted disconnect switch accessible from outside unit and control-circuit transformer with built-in overcurrent protection.
F. Controls:
   1. Smoke Detectors: Stop fan and close outdoor-air damper if smoke is detected.
   2. Programmable thermostat with seven-day clock and minimum four programmable periods per day.
   3. Carbon Dioxide Sensor: Reset minimum outdoor-air ratio down to maximum amount shown on schedule maintain maximum 1000-ppm concentration.
G. Accessories:
   1. Duplex, 115-V, ground-fault-interrupter outlet with 15-A overcurrent protection. Include transformer if required.
   2. Low-ambient kit using staged, damper on, or variable-speed condenser fans for operation down to 35 deg F.
   3. Hail guards of galvanized steel, painted to match casing.
   4. Roof Curb: Minimum 14-inch-tall roof curb lined with 2-inch-thick, fiberglass insulation.

3.1 INSTALLATION

A. Install roof curb on roof structure, according to ARI Guideline B or NRCA's "Low-Slope Membrane Roofing Construction Details Manual."
B. Install and secure units, and coordinate roof penetrations and flashing with roof construction.
C. Install wind and seismic restraints according to manufacturer's written instructions.

SECTION 231123 - FACILITY NATURAL-GAS PIPING

2.1 PIPES, TUBES, AND FITTINGS

A. Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B.
   1. Malleable-Iron Threaded Fittings: ASME B16.3, Class 150, standard pattern.
   2. Unions: ASME B16.39, Class 150, malleable iron with brass-to-iron seat, ground joint, and threaded ends.
   3. Protective Coating for Underground Piping: Factory-applied, three-layer coating of epoxy, adhesive, and polyethylene (PE).
B. Corrugated, Stainless-Steel Tubing: Comply with ANSI/IAS LC 1: Includes flame-retardant PE coating, copper-alloy threaded ends, and striker plates.
C. PE Pipe: ASTM D 2513, SDR 11.
   1. PE Fittings: ASTM D 2683, socket-fusion type or ASTM D 3261, butt-fusion type with dimensions matching PE pipe.
   2. PE Transition Fittings: Factory-fabricated fittings with PE pipe complying with ASTM D2513, SDR 11 and steel pipe complying with ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B.

2.2 SPECIALTIES

A. Appliance Flexible Connectors:
   1. Indoor, Fixed-Appliance Flexible Connectors: Comply with ANSI Z21.24.
   2. Indoor, Movable-Appliance Flexible Connectors: Comply with ANSI Z21.69.
   3. Outdoor, Appliance Flexible Connectors: Comply with ANSI Z21.75.
   4. Corrugated stainless-steel tubing with polymer coating.
B. Strainers: ASTM A 126, Class B, cast-iron body, Y-pattern, full size of connecting piping, CWP rating of 125 psig. Include startup strainer and perforated stainless-steel basket.
C. Service Meters: Comply with gas company requirements.
D. Detectable Warning Tape: PE-film warning tape 6 inches wide and 4 mils thick, continuously inscribed with a description of utility, with metallic core encased in a protective jacket for corrosion protection; colored yellow.
E. PE Ball Valves: Comply with ASME B16.40.
   1. CWP Rating: 80 psig.
   2. Operating Temperature: Minus 20 to plus 140 deg F.
   3. Operator: Nut or flat head for key operation with tamperproof feature where indicated.
F. Valve Boxes: Cast iron, two sections, with base to fit over valve, barrel a minimum of 5 inches in diameter, and cover with "GAS" lettering.

2.4 PRESSURE REGULATORS

A. General Requirements: Single stage, steel jacketed, and corrosion resistant. Include elevation compensator.
B. Service-Pressure and Line Pressure Regulators: ANSI Z21.80
C. Appliance Pressure Regulators: ANSI Z21.18

2.5 SLEEVES AND SLEEVE SEALS

A. Galvanized-Steel Pipe Sleeves: ASTM A 53, Type E, Grade B, Schedule 40, galvanized, plain ends.
B. Galvanized-Steel Sheet: 0.0239-inch minimum thickness; round tube closed with welded longitudinal joint.

2.7 GROUT

A. Description: ASTM C 1107, Grade B, nonshrink and nonmetallic, dry hydraulic-cement grout.

3.1 OUTDOOR PIPING INSTALLATION

A. Install underground, natural-gas piping buried at least 36 inches below finished grade.
   1. If natural-gas piping is installed less than 36 inches below finished grade, install it in containment conduit.
B. Install underground, PE, natural-gas piping according to ASTM D 2774.
C. Install wall penetration system at each service pipe penetration through foundation wall. Make installation watertight.
D. Install service meters to comply with gas company requirements.

3.2 INDOOR PIPING INSTALLATION

A. Install service meters to comply with gas company requirements.
B. Install gas stops for shutoff to appliances with low-pressure gas supply.
C. Install strainer on inlet of each low-pressure regulator.
D. Connect gas piping to equipment and appliances with shutoff valves and unions. Install gas valve upstream from and within 72 inches of each appliance or equipment gas train. Install union or flanged connections downstream from valves.
E. Do not use natural-gas piping as grounding electrode.

3.3 VALVE INSTALLATION

A. Install manual gas-shutoff valve for each gas appliance ahead of corrugated stainless-steel tubing, aluminum, or copper connector.
B. Install underground valves with valve boxes.
C. Install anode for metallic valves in underground, PE piping.

3.4 OUTDOOR PIPING SCHEDULE

A. Underground, natural-gas piping shall be the following:
   1. PE pipe and fittings joined by heat fusion or mechanical couplings; service-line risers with tracer wire terminated in an accessible location.
B. Aboveground, natural-gas piping shall be the following:
   1. Steel pipe with malleable-iron fittings and threaded joints. Indicate extent of containment conduit on Drawings. Containment conduit is required for piping with insufficient depth of bury.
C. Containment Conduit: Steel pipe with wrought-steel fittings and welded joints. Coat pipe and fittings with protective coating for steel piping.

3.5 INDOOR PIPING SCHEDULE

A. Aboveground, branch piping NPS 1 and smaller shall be one of the following:
   1. Corrugated stainless-steel tubing with mechanical fittings having socket or threaded ends to match adjacent piping.
   2. Steel pipe with malleable-iron fittings and threaded joints.
B. Aboveground, distribution piping shall be the following:
   1. Steel pipe with malleable-iron fittings and threaded joints. Practical size limit for copper is NPS 4 (DN 100) because joints are difficult to heat evenly for brazing.

3.6 UNDERGROUND, MANUAL GAS-SHUTOFF VALVE SCHEDULE

A. Connections to Existing Gas Piping: Use valve and fitting assemblies made for tapping utility's gas mains and listed by an NRTL.
B. Underground:
   1. PE valves.
   2. Bronze plug valves.

3.7 ABOVEGROUND, MANUAL GAS-SHUTOFF VALVE SCHEDULE

A. Valves shall be Two-piece, full-port, bronze ball valves with bronze trim.

SECTION 233439 - HIGH-VOLUME, LOW-SPEED FANS

2.1 PERFORMANCE REQUIREMENTS

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
B. AMCA Compliance:
   1. Test HVLS fans according to AMCA 230.
   2. Certify HVLS fan performance according to AMCA 211.
C. Performance Data: Comply with ANSI 230 test procedure standard, based on five rating points: 20-, 40-, 60-, 80-, and 100-percent of maximum speed. Comply with AMCA 211 for publication of performance data.

3.1 EXAMINATION

A. Examine conditions for compliance with requirements for installation tolerances and other conditions affecting HVLS fan performance, maintenance, and operations.
   1. Fan locations indicated on Drawings are approximate. Determine exact locations before roughing-in for mounting, control, and electrical connections.
B. Examine roughing-in for mounting location, anchor-bolt sizes, and locations, to verify actual locations for mounting connections before installation of fan.

3.2 INSTALLATION OF HIGH-VOLUME LOW-SPEED FANS

A. Install fan according to manufacturer's published instructions.
B. Comply with NECA 1 and NFPA 70.
C. Comply with NFPA 13 for installation of HVLS fans and maximum allowable fan diameter. Center HVLS fans between four adjacent sprinklers. Minimum vertical clearance from HVLS fan to sprinkler deflector is 3 feet.
D. Comply with NFPA 72 and interlock HVLS fans to shut down upon receiving an alarm from fire alarm system.
E. Equipment Mounting:
   1. Anchor fan to building structure with manufacturer's recommended mounting bracket for installed condition.
F. Install unit to permit access for maintenance.
G. Install parts and accessories shipped loose.

3.3 ELECTRICAL CONNECTIONS

A. Install electrical devices furnished by manufacturer, but not factory mounted, according to NFPA 70 and NECA 1.
B. Install power wiring to field-mounted electrical devices, furnished by fan manufacturer, but not factory mounted.

3.4 CONTROL CONNECTIONS

A. Connect control wiring to field-mounted control devices.
B. Install control wiring to field-mounted control devices, furnished by fan manufacturer, but not factory mounted.

3.5 CLEANING

A. Clean equipment externally; remove coatings applied for protection during shipping and storage, foreign material, and oily residue according to manufacturer's written instructions. Following manufacturer's cleaning procedures, and clean with manufacturer-recommended cleaning products.

GENERAL MECH NOTES

1. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL, CIVIL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS. THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS.
2. MECHANICAL SYSTEMS SHALL BE INSTALLED AND TESTED USING MATERIALS AND PROCEDURES IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, LAWS AND/OR REGULATIONS AND AUTHORITIES HAVING JURISDICTION. SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN CODES AND THE DRAWINGS AND/OR SPECIFICATIONS, THE CODES, LAWS OR REGULATIONS SHALL GOVERN. ALL MATERIAL, EQUIPMENT INSTALLATION AND OPERATION SHALL BE IN FULL COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND REQUIREMENTS.
3. CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES INCLUDING CONNECTION FEES FOR UTILITY HOOKUPS. ALL WORK SHALL BE INSPECTED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. FURNISH INSPECTION AND APPROVAL LETTERS TO OWNER.
4. ALL WORK AND MATERIALS ARE SUBJECT TO FIELD OBSERVATION AT ANY TIME BY OWNER'S REPRESENTATIVE.
5. ALL EQUIPMENT SHALL BE NEW AND PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS AND CONTROLS FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT. FINAL LOCATION OF ALL AIR DEVICES SHALL BE COORDINATED WITH REFLECTED CEILING, ELECTRICAL FIXTURES, FIRE PROTECTION DEVICES AND CEILING BASED EQUIPMENT.
7. ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. ALL RADIUSED SQUARE DUCT ELBOWS SHALL HAVE TURNING VANES. FLEXIBLE DUCTS MAY BE USED WHERE SHOWN ON PLANS AND MUST BE INSTALLED IN ACCORDANCE WITH THE AIR DIFFUSION COUNCIL FLEXIBLE DUCT PERFORMANCE & INSTALLATION STANDARD (AKA THE ADC "GREENBOOK"). WHERE NOT SHOWN, FLEXIBLE DUCTS MAY BE USED FOR ALIGNMENT PURPOSES ONLY AND SHALL BE LIMITED TO A MAXIMUM LENGTH OF 36" AND SHALL NOT BE UTILIZED FOR CHANGE OF DIRECTION.
8. COORDINATE DUCT RUNS AND ROOFTOP PENETRATIONS WITH STRUCTURAL AND ROOFING CONTRACTOR. DUCT MAINS AND EQUIPMENT LOCATED IN THE JOIST ARE TO BE COORDINATED WITH STRUCTURAL. COORDINATE FOR REMOVING BRACING AS REQUIRED.
9. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH UL APPROVED FIRE-RATED SYSTEM. PROVIDE FIRE OR RADIATION DAMPERS WHERE REQUIRED.
10. ALL SYSTEMS SHALL BE BALANCED TO PROVIDE THE INDICATED AIR QUANTITIES ON PLANS.
11. ANY MATERIALS ROUTED THROUGH AIR PLENUMS SHALL BE PLENUM-RATED.
12. ALL DUCT DIMENSIONS SHOWN ARE MINIMUM INTERIOR (FREE AREA) DIMENSIONS. CONTRACTOR MAY ADJUST DUCT DIMENSIONS AS REQUIRED TO COORDINATE WITH SITE CONDITIONS. IF A CHANGE IS REQUIRED, DUCT FREE AREA DIMENSIONS MAY BE NO SMALLER THAN THAT SHOWN ON PLANS.
13. ALL DAMPERS TO INCLUDE SET SCREW OR SIMILAR FEATURE FOR LOCKING IN POSITION.
14. INSTALL ALL MECHANICAL EQUIPMENT WITH REQUIRED CLEARANCES AND ACCESS.

MECHANICAL SYMBOLS

T	THERMOSTAT. MOUNT AT 48" AFF
S	SENSOR. REF PLANS FOR TYPE AND MOUNTING HEIGHT
AFF	ABOVE FINISHED FLOOR
CD-1 / 24"x12" CFM	SUPPLY DIFFUSER/GRILLE TAG
	DUCT SIZE TRANSITION
10"x10"	SQUARE DUCT DIMENSIONS
8"ø	ROUND DUCT DIMENSIONS
CD	CONDENSATE DRAIN
R	REFRIGERATION LINESET. SINGLE LINE REPRESENTS BOTH LIQUID AND SUCTION LINE
	VERTICAL SUPPLY DUCT
	VERTICAL RETURN DUCT
	VERTICAL EXHAUST DUCT
	VOLUME DAMPER

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FORWARD ENGINEERS, PLLC
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ARKANSAS

NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

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DRAWN BY: BLG
CHECKED BY: KNJ

SHEET TITLE:

MECHANICAL SPECIFICATIONS

M0.1

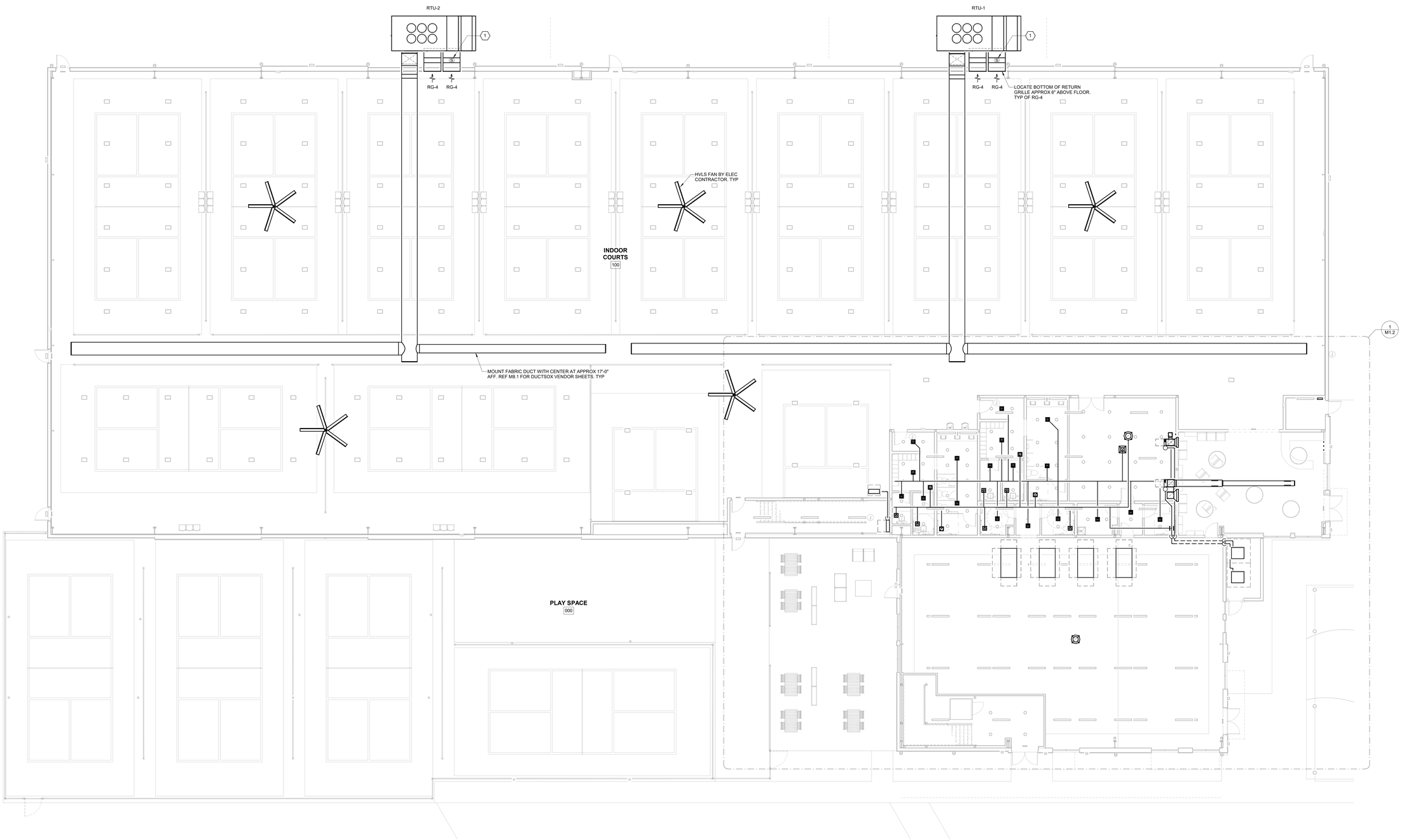
HEIGHT SHOWN FOR WALL MOUNTED AIR DEVICES IS TO HORIZONTAL CENTER OF DEVICE. VERIFY HEIGHT WITH FIELD CONDITIONS AND COORDINATE ANY REQUIRED CHANGES WITH ARCHITECT

SHEET KEYNOTES

1. PROVIDE REMOTE TEMPERATURE SENSOR IN RETURN DUCT. CONNECT TO THERMOSTAT AND USE AS TEMPERATURE INPUT FOR UNIT CONTROL.

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

MECHANICAL DRAWINGS INCLUDE THE LAYOUT OF MAJOR EQUIPMENT; PRELIMINARY EQUIPMENT SELECTIONS AND AIR DEVICE LOCATIONS. ROUGH DUCT ROUTING MAY BE SHOWN.



1 MECHANICAL PLAN - 1ST FLOOR
1/8" = 1'-0"

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DESIGN DEVELOPMENT
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CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: BLG
CHECKED BY: KNJ

SHEET TITLE:

MECHANICAL PLAN FIRST FLOOR

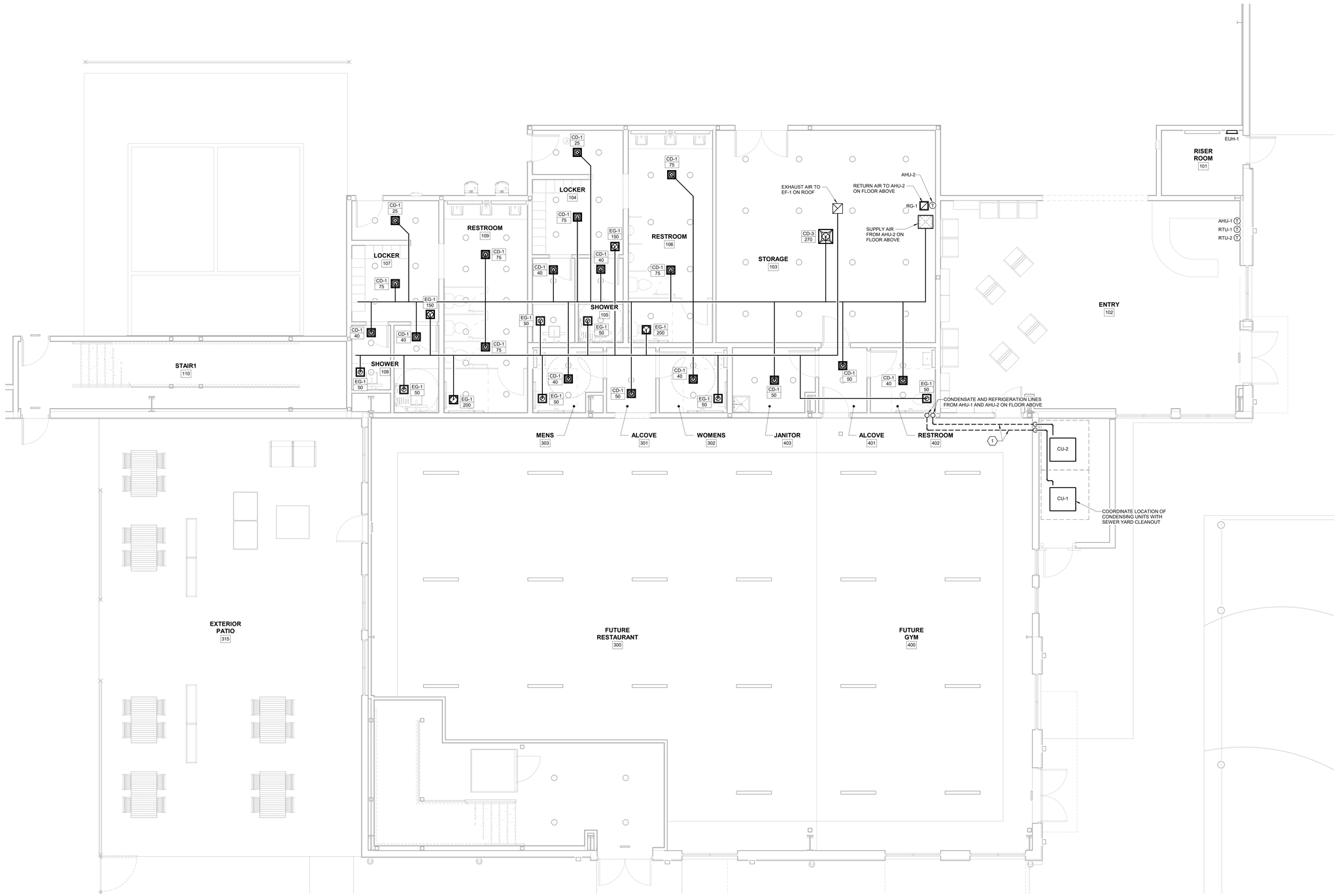
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SHEET KEYNOTES

1. REFRIGERATION LINESET BETWEEN SPLIT EVAPORATOR AND CONDENSER. SINGLE LINE REPRESENTS BOTH LIQUID AND SUCTION PIPES. SIZE AND INSTALL PER MANUFACTURER INSTRUCTIONS. SINGLE LINE ALSO REPRESENTS CONDENSATE LINE TO EXTERIOR. SIZE PER CONNECTED UNIT TONNAGE OR AS SHOWN ON DRAWINGS. PROVIDE CLEANOUTS IN ACCESSIBLE LOCATION AS REQUIRED FOR SERVICE. DAYLIGHT LOW ON EXTERIOR WALL AND SPILL TO SPLASH BLOCK.

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

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1 MECHANICAL PLAN - 1ST FLOOR ENLARGED
1/4" = 1'-0"

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DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: BLG
CHECKED BY: KNJ
SHEET TITLE:
MECHANICAL PLAN FIRST FLOOR ENLARGED

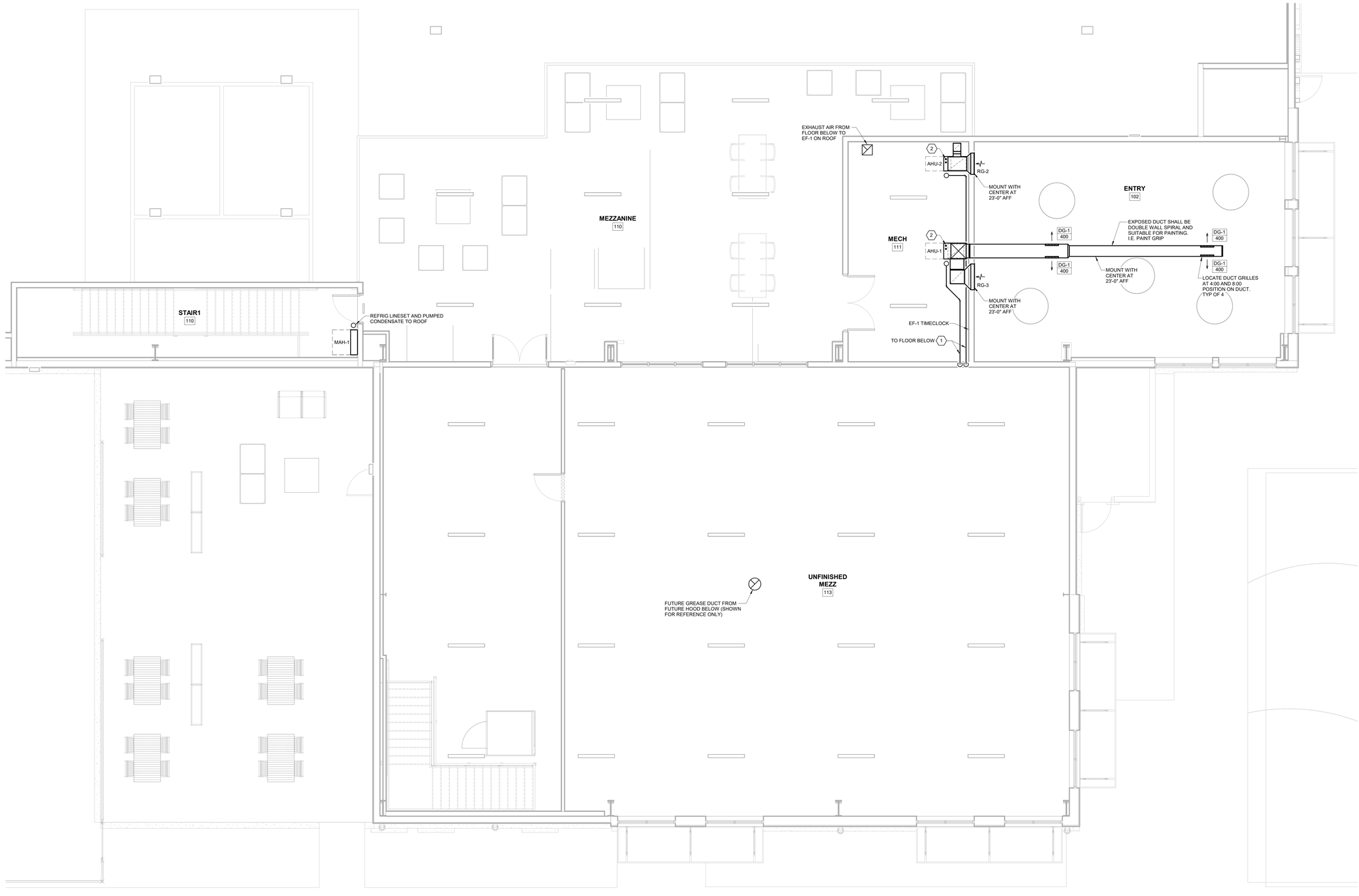
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SHEET KEYNOTES

1. REFRIGERATION LINESET BETWEEN SPLIT EVAPORATOR AND CONDENSER. SINGLE LINE REPRESENTS BOTH LIQUID AND SUCTION PIPES. SIZE AND INSTALL PER MANUFACTURER INSTRUCTIONS. SINGLE LINE ALSO REPRESENTS CONDENSATE LINE TO EXTERIOR. SIZE PER CONNECTED UNIT TONNAGE OR AS SHOWN ON DRAWINGS. PROVIDE CLEANOUTS IN ACCESSIBLE LOCATION AS REQUIRED FOR SERVICE. DAYLIGHT LOW ON EXTERIOR WALL AND SPILL TO SPLASH BLOCK.
2. FLUE AND COMBUSTION AIR PIPES WITH MATERIALS AND SIZING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO COMBUSTIBLES. PROVIDE ROOF OR WALL TERMINAL WITH CONCENTRIC PIPING CONNECTION KIT. VERIFY TERMINATION LOCATION MEETS CLEARANCES FROM GROUND, WINDOWS, SOFFIT, CORNERS, GAS METERS, AIR SUPPLY INLETS AND PAVED AREAS PER MANUFACTURERS INSTALL REQUIREMENTS AND LOCAL CODES.

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

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1 MECHANICAL PLAN - 2ND FLOOR
1/4" = 1'-0"

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No. 2920
ARKANSAS

NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK:	DATE:	DESCRIPTION:
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: BLG
CHECKED BY: KNJ

SHEET TITLE:

MECHANICAL PLAN SECOND FLOOR

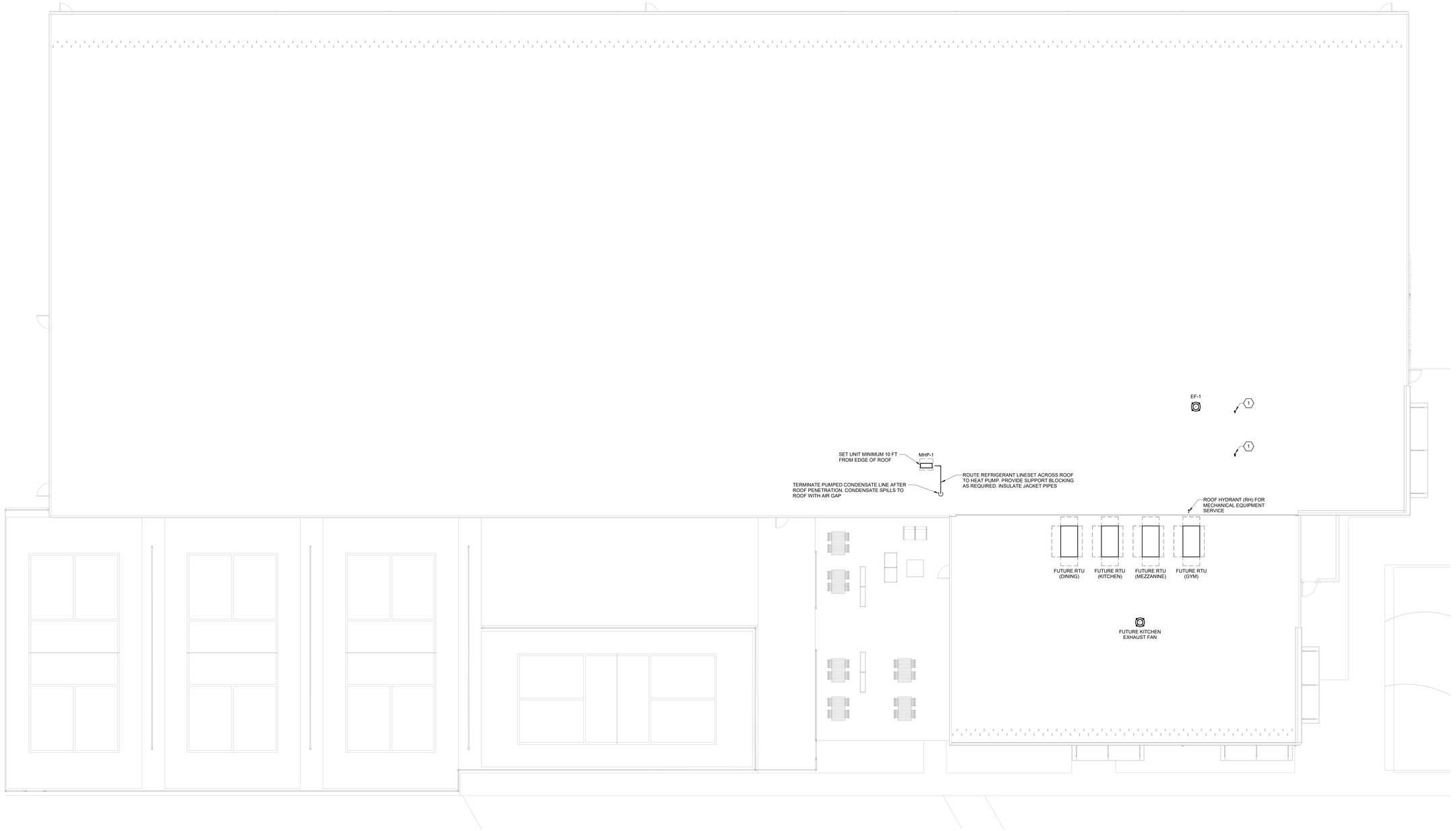
M1.3

SHEET KEYNOTES

1. FLUE AND COMBUSTION AIR PIPES WITH MATERIALS AND SIZING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO COMBUSTIBLES. PROVIDE ROOF OR WALL TERMINAL WITH CONCENTRIC PIPING CONNECTION KIT. VERIFY TERMINATION LOCATION MEETS CLEARANCES FROM GROUND, WINDOWS, SOFFIT, CORNERS, GAS METERS, AIR SUPPLY INLETS AND PAVED AREAS PER MANUFACTURERS INSTALL REQUIREMENTS AND LOCAL CODES.

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

MECHANICAL DRAWINGS INCLUDE THE LAYOUT OF MAJOR EQUIPMENT, PRELIMINARY EQUIPMENT SELECTIONS AND AIR DEVICE LOCATIONS. ROUGH DUCT ROUTING MAY BE SHOWN.



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

CLIENT:

Burris Architecture
[illegible], AR 72712
479.935.3531

CLIENT JOB NUMBER: 25132

CONSULTANT:

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CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

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MARK	DATE	DESCRIPTION
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PROJECT NUMBER: 251002
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SHEET TITLE:

MECHANICAL PLAN ROOF

M1.4

GAS-FIRED PACKAGED AIR-CONDITIONING UNIT SCHEDULE

MARK	BASIS OF DESIGN		NOMINAL TONS	AIRFLOW CONFIGURATION	SUPPLY FAN DATA						EXHAUST FAN DATA						COOLING							HOT GAS BYPASS (Y / N)	HOT GAS REHEAT CAPACITY (BTU/HR)	HEATING DATA							ELECTRICAL DATA				WEIGHT (LBS)
	MANUFACTURER	MODEL			NO. OF FANS	FAN SPEED	MOTOR SIZE PER FAN (HP)	AIRFLOW (CFM)	FRESH AIR (CFM)	E.S.P. (IN W.G.)	NO. OF FANS	FAN SPEED	MOTOR SIZE PER FAN (HP)	AIRFLOW	E.S.P. (IN W.G.)	REFRIGERANT	TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/H)	ENTERING AIR TEMP (DEG F) DB	ENTERING AIR TEMP (DEG F) WB	LEAVING AIR TEMP (DEG F) DB	LEAVING AIR TEMP (DEG F) WB	AMBIENT AIR TEMP (DEG F)	EFFICIENCY (EER / IEER)			FUEL TYPE	TURN DOWN	INPUT (BTU/HR)	OUTPUT (BTU/HR)	ENTERING AIR TEMP. (DEG. F)	LEAVING AIR TEMP (DEG. F)	A.F.U.E. (%)	VOLTS	PHASE	MCA	MOCP	
RTU-1	GREENHECK	RV-150-40I-Q-J2	40	DOWNFLOW WITH PLENUM CURB FOR SIDE CONNECTIONS	2	CONSTANT	15	14000	3250	1.5	2	CONSTANT	5	2000	0.5	R-454B	495000	349900	79.9	66.8	55.0	55.0	96.0	10.0 / 13.8	Y	348100	NATURAL GAS	4:1	800000	648000	57.1	100.0	81	208	3	281.1	300	7710
RTU-2	GREENHECK	RV-150-40I-Q-J2	40	DOWNFLOW WITH PLENUM CURB FOR SIDE CONNECTIONS	2	CONSTANT	15	14000	3250	1.5	2	CONSTANT	5	2000	0.5	R-454B	495000	349900	79.9	66.8	55.0	55.0	96.0	10.0 / 13.8	Y	348100	NATURAL GAS	4:1	800000	648000	57.1	100.0	81	208	3	281.1	300	7710

NOTES:
1. PROVIDE HINGED ACCESS DOORS.
2. PROVIDE HAIL GUARDS.
3. PROVIDE VANDAL GUARDS.
4. PROVIDE SMOKE DETECTOR.
5. PROVIDE FULLY MODULATING LOW-LEAK OUTSIDE AIR DAMPER AND COMPARATIVE-ENTHALPY ECONOMIZER.
6. PROVIDE RECIRCULATION CAPABILITY. UNIT MAY OPERATE IN RECIRCULATION MODE WHEN BUILDING IS UNOCCUPIED.
7. PROVIDE POWERED EXHAUST.
8. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
9. PROVIDE FACTORY-PREWIRED NEMA-3R DISCONNECT.
10. PROVIDE 5-YEAR COMPRESSOR WARRANTY AND 1-YEAR FULL PARTS & LABOR WARRANTY.
11. PROVIDE 2" MERV-8 PLEATED FILTERS PLUS ONE SPARE SET.

GAS-FIRED FURNACE UNIT SCHEDULE

MARK	BASIS OF DESIGN		EVAPORATOR MODEL	OUTDOOR UNIT	NOMINAL TONS	ORIENTATION	FAN DATA				OUTDOOR AIRFLOW (CFM)	HEATING DATA						ELECTRICAL DATA			UNIT WEIGHT (LB.)
	MANUFACTURER	MODEL					AIRFLOW (CFM)	E.S.P. (IN W.G.)	FAN SPEED	MOTOR SIZE (HP)		FUEL TYPE	NO. OF STAGES	BTU/H IN	BTU/H OUT	A.F.U.E. (%)	E.A.T. (DEG. F)	L.A.T. (DEG. F)	VOLTS	PHASE	MCA	
AHU-1	FRASER-JOHNSTON	Z9ET080C16SMPS1	CTM60C5CHS1	CU-1	4	UPFLOW	1600	0.50	CONSTANT	3/4	0	NATURAL GAS	2	80000	77000	97	60	104.6	120	1	10.8	143
AHU-2	FRASER-JOHNSTON	Z9ET060B12SMPS1	CTM36B5CDS1	CU-2	3	DOWNFLOW	1200	0.50	CONSTANT	1/2	0	NATURAL GAS	2	60000	58000	97	60	104.8	120	1	8.8	128

NOTES:
1. PROVIDE COMPATIBLE MERV-8 PLEATED FILTER + 1 SPARE FOR EACH UNIT.
2. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH EACH UNIT. COORDINATE SCHEDULE WITH OWNER. SUPPLY FAN TO BE ON WHEN BUILDING IS OCCUPIED. AHU-2 FAN MUST BE ON WHEN EF-1 IS ON.
3. ROUTE FULL-SIZE CONDENSATE DRAIN FROM UNIT AND DISCHARGE TO APPROVED PLACE OF DISPOSAL IN SHORTEST AND MOST ECONOMICAL MANNER (OR AS SHOWN ON PLANS). DO NOT REDUCE SIZE FROM UNIT CONNECTION. PROVIDE MINIMUM 1 PERCENT SLOPE FOR HORIZONTAL GRAVITY DRAINS. PROVIDE CONDENSATE PUMP AS REQUIRED.
4. PROVIDE FILTER RACK IF NOT INTEGRAL TO AIR HANDLER.

AIR-TO-AIR CONDENSING UNIT SCHEDULE

MARK	BASIS OF DESIGN		NOMINAL TONS	REFRIGERANT TYPE	COOLING					ELECTRICAL DATA				WEIGHT (LBS)
	MANUFACTURER	MODEL			TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/H)	ENTERING AIR TEMP. DB / WB (DEG. F)	LEAVING AIR TEMP. DB / WB (DEG. F)	AMBIENT AIR TEMP. (DEG. F)	EFFICIENCY (SEER / SEER2)	VOLTS	PHASE	MCA	MOCP	
CU-1	FRASER-JOHNSTON	XC648E2S11	4	R-454B	43300	31900	75.0 / 63.0	56.6 / 53.7	95	15.2 / 14.5	208	1	27.3	45	250
CU-2	FRASER-JOHNSTON	XC436E2S11	3	R-454B	32200	22500	75.0 / 63.0	57.6 / 53.9	95	15.1 / 14.3	208	1	19.0	30	185

NOTES:
1. ROUTE REFRIGERANT SUCTION AND LIQUID LINES BETWEEN INDOOR EVAPORATOR COIL AND CONDENSING UNIT IN SHORTEST AND MOST ECONOMICAL MANNER (OR AS SHOWN ON PLANS). SIZE PER MANUFACTURER'S INSTALLATION MANUAL.
2. PROVIDE HOUSEKEEPING PAD FOR GROUND MOUNTED UNITS AND ROOF-COMPATIBLE RAIL SUPPORT FOR ROOF MOUNTED UNITS.
3. PROVIDE HAIL GUARD AND LOW AMBIENT KIT/BAFFLE.

ELECTRIC AIR HANDLING UNIT SCHEDULE

MARK	BASIS OF DESIGN		EVAPORATOR MODEL	OUTDOOR UNIT	NOMINAL TONS	ORIENTATION	FAN DATA				OUTDOOR AIRFLOW (CFM)	ELECTRICAL DATA				UNIT WEIGHT (LB.)
	MANUFACTURER	MODEL					AIRFLOW (CFM)	E.S.P. (IN W.G.)	FAN SPEED	MOTOR SIZE (HP)		VOLTS	PHASE	MCA	MOCP	
MAH-1	LG	KNUAB121A	N/A	MHP-1	1	DUCTLESS WALL MOUNT	400	0.00	VARIABLE	1/10	0	POWERED THRU OUTDOOR UNIT				20

NOTES:
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH EACH UNIT. COORDINATE SCHEDULE WITH OWNER.
2. PROVIDE INTEGRAL OR ADD-ON CONDENSATE PUMP. PUMP TO BE POWERED THRU AIR HANDLER. ROUTE PUMPED CONDENSATE TO APPROVED PLACE OF DISPOSAL IN SHORTEST AND MOST ECONOMICAL MANNER (OR AS SHOWN ON PLANS).

AIR-TO-AIR HEAT PUMP SCHEDULE

MARK	BASIS OF DESIGN		NOMINAL TONS	REFRIGERANT TYPE	COOLING			HEATING		ELECTRICAL DATA				WEIGHT (LBS)
	MANUFACTURER	MODEL			TOTAL CAPACITY (BTU/H)	AMBIENT AIR TEMP. (DEG. F)	EFFICIENCY (SEER / SEER2)	CAPACITY AT 47 DEG. F AMBIENT (BTU/H)	CAPACITY AT 17 DEG. F AMBIENT (BTU/H)	EFFICIENCY (HSPF / HSPF2)	VOLTS	PHASE	MCA	MOCP	
MHP-1	LG	KUSAB121A	1	R-32	12000	95	23.7 / 22.5	13600	12400	12.3 / 10.5	208	1	12	15	69

NOTES:
1. ROUTE REFRIGERANT SUCTION AND LIQUID LINES BETWEEN INDOOR EVAPORATOR COIL AND CONDENSING UNIT IN SHORTEST AND MOST ECONOMICAL MANNER (OR AS SHOWN ON PLANS). SIZE PER MANUFACTURER'S INSTALLATION MANUAL.
2. PROVIDE HOUSEKEEPING PAD FOR GROUND MOUNTED UNITS AND ROOF-COMPATIBLE RAIL SUPPORT FOR ROOF MOUNTED UNITS.
3. PROVIDE HAIL GUARD.

FAN SCHEDULE

MARK	TYPE	BASIS OF DESIGN		AIRFLOW (CFM)	E.S.P. (in w.g.)	SONES	WEIGHT (LBS)	CONTROLS	ELECTRICAL DATA			OPTIONS
		MANUFACTURER	MODEL						VOLTS	PHASE	FLA	
EF-1	ROOF EXHAUST FAN	GREENHECK	G-120-VG	1050	0.5	8.5	59	TIME CLOCK	120	1	3.8	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN, ALUMINUM HOUSING WITH CENTRIFUGAL BACKWARD INCLINED ALUMINUM WHEEL. DIRECT DRIVE MOTOR MOUNTED ON VIBRATION ISOLATION. PROVIDE ROOF CURB AND BACKDRAFT DAMPER. COORDINATE TIMECLOCK SCHEDULE WITH OWNER.

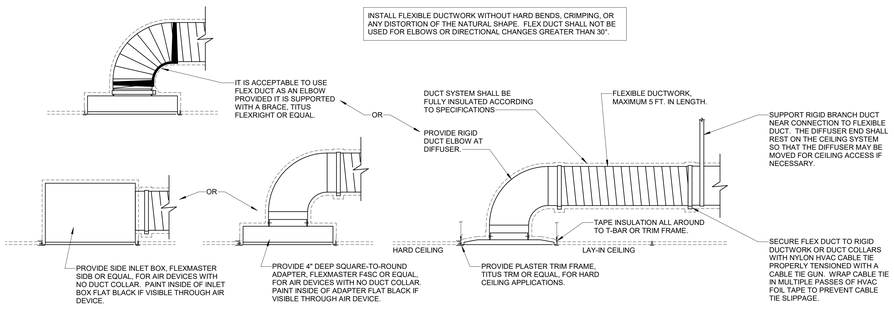
AIR DEVICE SCHEDULE

MARK	TYPE	DESCRIPTION	AIR SYSTEM	BASIS OF DESIGN		NECK SIZE (INCHES)	FACE SIZE (INCHES)	MAX AIRFLOW CONDITIONS		MATERIAL	FINISH	DAMPER TYPE	MOUNTING TYPE	REMARKS
				MANUFACTURER	MODEL NUMBER			CFM	NC RATING					
CD-1	CEILING DIFFUSER	SQUARE PLAQUE DIFFUSER	SUPPLY	PRICE	SPD	6"ø	12 x 12	175	20	STEEL	WHITE	RADIAL	SURFACE	
CD-3	CEILING DIFFUSER	SQUARE PLAQUE DIFFUSER	SUPPLY	PRICE	SPD	10"ø	20 x 20	375	20	STEEL	WHITE	RADIAL	SURFACE	
DG-1	DUCT GRILLE	SPIRAL DUCT GRILLE	SUPPLY	PRICE	SDG	14 x 8	16 x 10	450	20	ALUMINUM	TBD	AIR SCOOP	DUCT	PAINT TO MATCH DUCT
EG-1	EXHAUST GRILLE	EGGCRATE CORE, 1/2" SPACING, 0 DEG	EXHAUST	PRICE	80	10 x 10	12 x 12	500	20	ALUMINUM	WHITE	OPPOSED BLADE	SURFACE	
RG-1	RETURN GRILLE	EGGCRATE CORE, 1/2" SPACING, 0 DEG	RETURN	PRICE	80	10 x 10	12 x 12	500	20	ALUMINUM	WHITE	NONE	SURFACE	
RG-2	RETURN GRILLE	3/4" SPACING, FIXED FINS, BLADES PARALLEL TO LONG DIMENSION	RETURN	PRICE	510ZL	28 x 14	30 x 16	1200	24	STEEL	TBD	NONE	SURFACE	PAINT TO MATCH WALL
RG-3	RETURN GRILLE	3/4" SPACING, FIXED FINS, BLADES PARALLEL TO LONG DIMENSION	RETURN	PRICE	510ZL	34 x 16	36 x 18	1800	24	STEEL	TBD	NONE	SURFACE	PAINT TO MATCH WALL
RG-4	RETURN GRILLE	3/8" SPACING, HEAVY DUTY FIXED FINS, HORIZONTAL BLADES	RETURN	PRICE	90	48 x 48	50 x 50	7000	20	STEEL	TBD	NONE	SURFACE	PAINT TO MATCH WALL

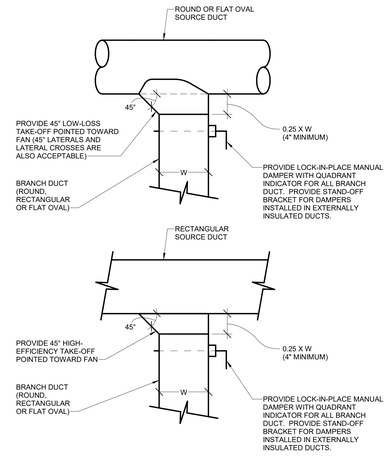
ELECTRIC UNIT HEATER SCHEDULE

MARK	DESCRIPTION	BASIS OF DESIGN		AIRFLOW (CFM)	HEATING COIL (WATTS)	ELECTRICAL DATA			WEIGHT (LBS)
		MANUFACTURER	MODEL			VOLTS	PHASE	FULL-LOAD AMPS	
EUH-1	ELECTRIC WALL MOUNTED UNIT HEATER	MARKEL	E3321TD-RP	175	750	120	1	6	26

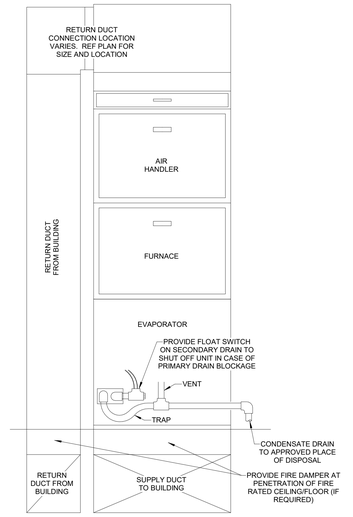
NOTES:
1. UNIT INCLUDES INTEGRAL THERMOSTAT, FAN DELAY AND DISCONNECT.
2. MOUNT UNITS AT HEIGHT SHOWN ON PLAN OR PER MANUFACTURER INSTALLATION INSTRUCTIONS.
3. PROVIDE SURFACE MOUNTING OR SEMI-RECESSED FRAME IF IN-WALL INSTALLATION NOT ALLOWED.



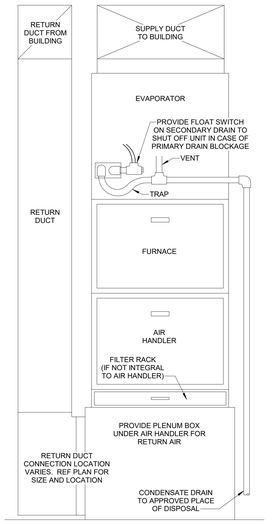
4 CEILING AIR DEVICES
NTS



3 BRANCH DUCT TAKE-OFF
NTS



2 SPLIT SYSTEM INDOOR UNIT (DOWNFLOW)
NTS



1 SPLIT SYSTEM INDOOR UNIT (UPFLOW)
NTS

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CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

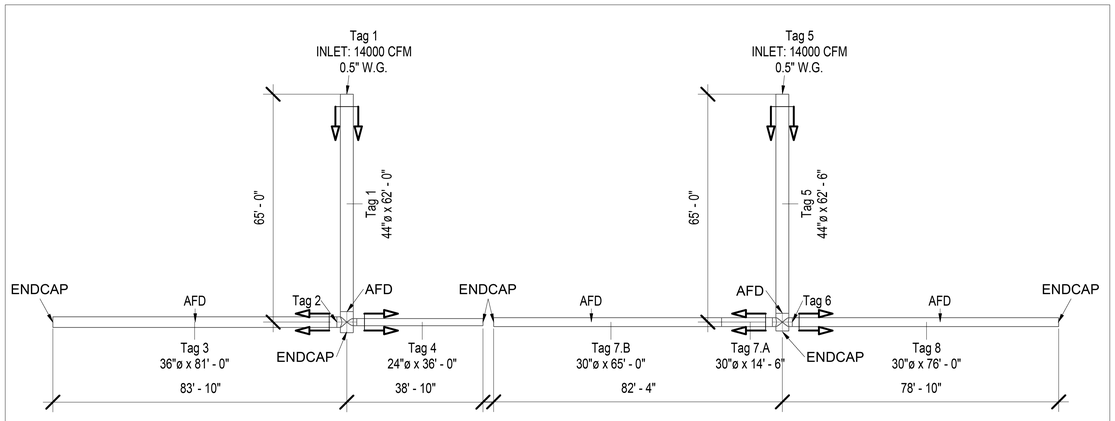
ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: BLG
CHECKED BY: KNJ
SHEET TITLE:

MECHANICAL SCHEDULES & DETAILS

M6.1



Dispersion Information (Velocity of 150, 100, 50 FPM)

Tag #	CFM Dispersed	Dispersion Type	Dispersion Set 1	Dispersion Set 2	Dispersion Set 3
1	565	(none)			
3	9300	Orifice	Size 1.375 at 4:00 - 11' 17' 27'	Size 0.625 at 6:00 - 5' 8' 12'	Size 1.375 at 8:00 - 11' 17' 27'
4	4135	Orifice	Size 1.375 at 4:00 - 11' 17' 27'	Size 0.625 at 6:00 - 5' 8' 12'	Size 1.375 at 8:00 - 11' 17' 27'
5	565	(none)			
7.A	1165	Orifice	Size 1.375 at 4:00 - 11' 16' 25'	Size 0.625 at 6:00 - 5' 7' 12'	
7.B	5705	Orifice	Size 1.375 at 4:00 - 11' 16' 26'	Size 0.625 at 6:00 - 5' 7' 12'	Size 1.375 at 8:00 - 11' 16' 26'
8	6565	Orifice	Size 0.625 at 6:00 - 5' 8' 12'	Size 1.375 at 8:00 - 11' 17' 27'	

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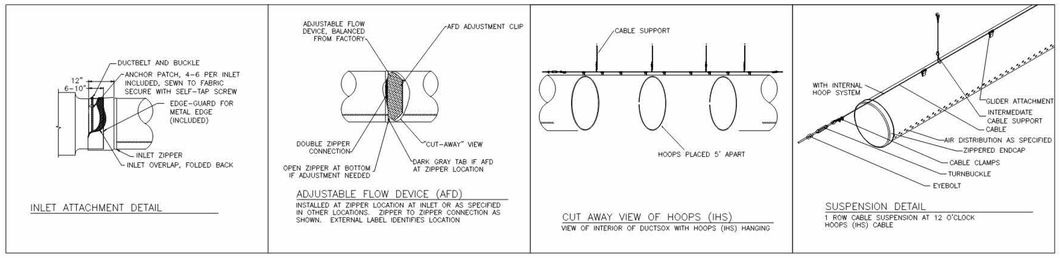
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LENGTH TOLERANCES: (+/-).3" PER INITIAL 10', (+/-) 1" EVERY 10' AFTER

DRAWING TITLE	DUCTSOX PLAN VIEW
PROJECT NAME	CENTERTON PICKLEBALL
REPRESENTATIVE	AIRETECH CORP.
DRAWING NUMBER	DS26-0040
DRAWN BY	KCS
DATE	09 JAN 2026

FABRIC	COLOR	SUSPENSION	HARDWARE
VERONA NP	NOT SPECIFIED	IHS	GALV CABLE
HANG HEIGHT		FITTING ALIGNMENT	
APPROX 18' AFF		TOP ALIGNED	
REVISION		SCALE	PAGE NUMBER
		NTS	1 OF 2

REV	DESCRIPTION	BY	DATE



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DRAWING TITLE	DUCTSOX DETAILS
PROJECT NAME	CENTERTON PICKLEBALL
REPRESENTATIVE	AIRETECH CORP.
DRAWING NUMBER	DS26-0040
DRAWN BY	KCS
DATE	09 JAN 2026

FABRIC	COLOR	SUSPENSION	HARDWARE
VERONA NP	NOT SPECIFIED	IHS	GALV CABLE
HANG HEIGHT		FITTING ALIGNMENT	
APPROX 18' AFF		TOP ALIGNED	
REVISION		SCALE	PAGE NUMBER
		NTS	2 OF 2

REV	DESCRIPTION	BY	DATE

Design is preliminary. Selections to be updated per final dimensions prior to issue

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CENTERTON PICKLEBALL
N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION

PROJECT NUMBER: 251002
DRAWN BY: N/A
CHECKED BY: KNJ
SHEET TITLE:
MECHANICAL DUCTSOX VENDOR SHEET

M8.1

DIVISION 26 - ELECTRICAL

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SUBMITTALS

1. Prior to procurement and if required by general contractor, contractor shall submit product data for review for all equipment, including the following:
   A. Lighting fixtures.
   B. Panelboards.

SECTION 260010 - SUPPLEMENTAL REQUIREMENTS FOR ELECTRICAL

1.1 COORDINATION

A. Interruption of Existing Electrical Service: Do not interrupt electrical service to facilities occupied by Owner or others unless permitted under the following conditions:
   1. Notify Construction Manager no fewer than seven days in advance of proposed interruption of electrical service.
   2. Do not proceed with interruption of electrical service without Construction Manager's written permission.

3.1 INSTALLATION OF ELECTRICAL WORK

A. Unless more stringent requirements are specified in the Contract Documents or manufacturers' written instructions, comply with NFPA 70 and NECA NEIS 1 for installation of Work specified in Division 26. Consult Architect for resolution of conflicting requirements.

SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

2.1 COPPER BUILDING WIRE

A. Description: Flexible, insulated and uninsulated, drawn copper current-carrying conductor with an overall insulation layer or jacket, or both, rated 600 V or less.
B. Standards: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and use.
C. Conductors: Copper, complying with ASTM B3 for bare annealed copper and with ASTM B8 for stranded conductors.
D. Conductor Insulation:
   1. Type NM: Comply with UL 83 and UL 719.
   2. Type THHN, and Type THWN-2. Comply with UL 83.

2.2 ALUMINUM BUILDING WIRE

A. Description: Flexible, insulated and uninsulated, drawn aluminum current-carrying conductor with an overall insulation layer or jacket, or both, rated 600 V or less.
B. Standards: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and use.
C. Conductors: Aluminum, complying with ASTM B800 and ASTM B801.
D. Conductor Insulation:
   1. Type NM. Comply with UL 83 and UL 719.
   2. Type THHN, and Type THWN-2. Comply with UL 83.

2.3 CONNECTORS AND SPLICES

A. Description: Factory-fabricated connectors, splices, and lugs of size, ampacity rating, material, type, and class for application and service indicated; listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and use.
B. Jacketed Cable Connectors: For steel and aluminum jacketed cables, zinc die-cast with set screws, designed to connect conductors specified in this Section.

3.1 CONDUCTOR MATERIAL APPLICATIONS

A. Feeders: Copper for feeders smaller than No. 4 AWG; copper or aluminum for feeders No. 4 AWG and larger. Conductors must be solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
B. Branch Circuits: Copper. Conductors must be solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

3.2 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS

A. Service Entrance: Type THHN/THWN-2, single conductors in raceway.
B. Feeders: Type THHN/THWN-2, single conductors in raceway.
C. Exposed Branch Circuits: Type THHN/THWN-2, single conductors in raceway.
D. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN/THWN-2, single conductors in raceway. If allowed by authorities having jurisdiction, Nonmetallic-sheathed cable, Type NM.
E. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN/THWN-2, single conductors in raceway.
F. Cord Drops and Portable Appliance Connections: Type SO, hard service cord with stainless steel, wire-mesh, strain relief device at terminations to suit application.

3.3 INSTALLATION, GENERAL

A. Conceal cables in finished walls, ceilings, and floors unless otherwise indicated.
B. Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.

3.4 CONNECTIONS

A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B.

3.5 FIRESTOPPING

A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly.

SECTION 260523 - CONTROL-VOLTAGE ELECTRICAL POWER CABLES

2.1 PERFORMANCE REQUIREMENTS

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
B. Flame Travel and Smoke Density in Plenums: As determined by testing identical products according to NFPA 262, by a qualified testing agency. Identify products for installation in plenums with appropriate markings of applicable testing agency.
   1. Flame Travel Distance: 60 inch or less.
   2. Peak Optical Smoke Density: 0.5 or less.
   3. Average Optical Smoke Density: 0.15 or less.
C. Flame Travel and Smoke Density for Riser Cables in Non-Plenum Building Spaces: As determined by testing identical products according to UL 1666.
D. Flame Travel and Smoke Density for Cables in Non-Riser Applications and Non-Plenum Building Spaces: As determined by testing identical products according to UL 1685.

2.2 BACKBOARDS

A. Description: Plywood, fire-retardant treated, 3/4 by 48 by 96 inch or size as per Owner.

2.3 CATEGORY 5e BALANCED TWISTED PAIR CABLE

A. Description: Four-pair, balanced-twisted pair cable, certified to meet transmission characteristics of Category 5e cable at frequencies up to 100 MHz.
B. Standard: Comply with ICEA S-90-661, NEMA WC 63.1, and TIA-568-C.2 for Category 5e cables.
C. Conductors: 100 ohm, No. 24 AWG solid copper.
D. Shielding/Screening: Shielded twisted pairs (FTP).
E. Cable Rating: Plenum.
F. Jacket: Gray thermoplastic or as coordinated with building owner.

2.4 CONTROL-CIRCUIT CONDUCTORS

A. Class 1 Control Circuits: Stranded copper, Type THHN/THWN-2, complying with UL 83 in raceway.
B. Class 2 Control Circuits: Stranded copper, power-limited cable, concealed in building finishes.
C. Class 3 Remote-Control and Signal Circuits: Stranded copper, power-limited cable, concealed in building finishes.
D. Class 2 Control Circuits and Class 3 Remote-Control and Signal Circuits That Supply Critical Circuits: Circuit Integrity (CI) cable.

3.1 INSTALLATION OF RACEWAYS AND BOXES

A. Comply with TIA-569-D for pull-box sizing and length of conduit and number of bends between pull points.

3.2 INSTALLATION OF CONDUCTORS AND CABLES

A. Comply with NECA 1.
B. General Requirements for Cabling:
   1. Terminate all conductors; cable must not contain unterminated elements. Make terminations only at indicated outlets, terminals, and cross-connect and patch panels.
   2. Cables may not be spliced and must be continuous from terminal to terminal. Do not splice cables between termination, tap, or splice points.
   3. Cables serving a common system may be grouped in a common raceway. Install network cabling and control wiring and cable in separate raceway from power wiring. Do not group conductors from different systems or different voltages.
   4. Secure and support cables at intervals not exceeding 30 inch and not more than 6 inch from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
C. Installation of Control-Circuit Conductors: Install wiring in raceways.
D. Open-Cable Installation:
   1. Install cabling with horizontal and vertical cable guides in telecommunications spaces with terminating hardware and interconnection equipment.
   2. Suspend copper cable not in a wireway or pathway a minimum of 8 inch above ceilings by cable supports not more than 30 inch apart.
   3. Cable must not be run through or on structural members or in contact with pipes, ducts, or other potentially damaging items. Do not run cables between structural members and corrugated panels.
E. Separation from EMI Sources:
   1. Comply with BICSI TDMM and TIA-569-D recommendations for separating unshielded copper voice and data communications cable from potential EMI sources including electrical power lines and equipment.

3.3 CONTROL-CIRCUIT CONDUCTORS

A. Minimum Conductor Sizes:
   1. Class 1 remote-control and signal circuits; No 14 AWG.
   2. Class 2 low-energy, remote-control, and signal circuits; No. 16 AWG.
   3. Class 3 low-energy, remote-control, alarm, and signal circuits; No 12 AWG.

3.4 FIRESTOPPING

A. Comply with TIA-569-D, Annex A, "Firestopping."

3.5 GROUNDING

A. For data communication wiring, comply with TIA-607-B and with BICSI TDMM, "Bonding and Grounding (Earthing)" Chapter.

SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

2.1 GROUNDING AND BONDING CONDUCTORS

A. Equipment Grounding Conductor: 600 V, THHN/THWN-2, copper, or, tinned-copper wire or cable, green color.
B. ASTM - Bare Copper Grounding and Bonding Conductor: Comply with ASTM B3.

2.2 GROUNDING AND BONDING CLAMPS

A. Description: Clamps suitable for attachment of grounding and bonding conductors to grounding electrodes, pipes, tubing, and rebar. Grounding and bonding clamps specified in this article are also suitable for use with communications applications.
   1. Regulatory Requirements: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
   2. Listing Criteria: Grounding and Bonding Equipment: UL CCN KDER; including UL 467.
B. UL KDER - Beam Grounding and Bonding Clamp: Mechanical-type, terminal, ground wire access from four directions; with dual, tin-plated or silicon bronze bolts.
C. UL KDER - Exothermically Welded Connection: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.3 GROUNDING (EARTHING) ELECTRODES

A. Performance Criteria:
   1. Regulatory Requirements: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
   2. Listing Criteria: Grounding and Bonding Equipment: UL CCN KDER; including UL 467.
B. UL KDER - Rod Electrode: General Characteristics: Copper-clad steel, sectional type; 5/8 inch by 8 ft.

3.1 SELECTION OF GROUNDING AND BONDING PRODUCTS

A. Grounding and Bonding Conductors:
   1. Provide solid conductor for 8 AWG and smaller, and stranded conductors for 6 AWG and larger unless otherwise indicated.
   2. Customer-Length Insulated Equipment Bonding Jumpers: 6 AWG, 19-strand, Type THHN.
   3. Bonding Cable: 28 kcmil, 14 strands of 17 AWG conductor, 1/4 inch in diameter.
   4. Bonding Conductor: 4 AWG or 6 AWG, stranded conductor.
   5. Bonding Jumper: Copper tape, braided conductors terminated with copper ferrules; 1-5/8 inch wide and 1/16 inch thick.
   6. Tinned Bonding Jumper: Tinned-copper tape, braided conductors terminated with copper ferrules; 1-5/8 inch wide and 1/16 inch thick.
   7. Underground Grounding Conductors: Install bare copper conductor, 2/0 AWG minimum.
B. Grounding and Bonding Connectors:
   1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
   2. Underground Connections: Welded connectors except at test wells and as otherwise indicated.
   3. Connections to Ground Rods at Test Wells: Bolted connectors.
   4. Connections to Structural Steel: Welded connectors.

3.2 INSTALLATION OF GROUNDING AND BONDING

A. Comply with manufacturer's published instructions.
B. Special Techniques:
   1. Underground Grounding Conductors: Bury at least 30 inch below grade.
   2. Grounding and Bonding Connectors: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact are galvanically compatible. Grounding for Steel Building Structure: Install driven ground rod at base of each corner column and at intermediate exterior columns at distances not more than 60 ft apart.
   3. Electrodes:
      a. Ground Rods: Drive rods until tops are 2 inch below finished floor or final grade unless otherwise indicated.
         1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated.
         2. Use exothermic welds for below-grade connections.
   4. Grounding at Service. Equipment grounding conductors and grounding electrode conductor must be connected to ground busbar. Install main bonding jumper between neutral and ground buses.

SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

2.1 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

A. Steel Slotted Support Systems: Preformed steel channels and angles with minimum 13/32 inch diameter holes at a maximum of 8 inch on center in at least one surface.
   1. Standard: Comply with MFMA-4 factory-fabricated components for field assembly.
   2. Material for Channel, Fittings, and Accessories: Galvanized steel.
   3. Channel Width: Selected for applicable load criteria.
   4. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
   5. Nonmetallic Coatings: Manufacturer's standard PVC, polyurethane, or polyester coating applied according to MFMA-4.
   6. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-4.
   7. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
B. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
C. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for nonarmored electrical conductors or cables in riser conduits. Plugs must have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body must be made of malleable iron.
D. Structural Steel for Fabricated Supports and Restraints: ASTM A36/A36M steel plates, shapes, and bars; black and galvanized.
E. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
   1. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete, steel, or wood, with hammer, shear, and pullout capacities appropriate for supported loads and building materials where used.
   2. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete, with tension, shear, and pullout capacities appropriate for supported loads and building materials where used.
   3. Concrete Inserts: Steel or malleable-iron, slotted support system units are similar to MSS Type 18 units and comply with MFMA-4 or MSS SP-58.
   4. Clamps for Attachment to Steel Structural Elements: MSS SP-58 units are suitable for attached structural element.
   5. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM F3125/F3125M, Grade A325.
   6. Toggle Bolts: All-steel springhead type.
   7. Hanger Rods: Threaded steel.

2.2 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES

A. Description: Welded or bolted structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.

3.1 SELECTION

A. Comply with the following standards for selection and installation of hangers and supports, except where requirements on Drawings or in this Section are stricter:
   1. NECA NEIS 101.
   2. NECA NEIS 105.
   3. NECA NEIS 111.
B. Maximum Support Spacing and Minimum Hanger Rod Size for Raceways: Space supports for EMT, IMC, and RMC as required by NFPA 70. Minimum rod size must be 1/4 inch in diameter.
C. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted or other support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits. Secure raceways and cables to these supports with single-bolt conduit clamps.
D. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2 inch and smaller raceways serving branch circuits and communication systems above suspended ceilings, and for fastening raceways to trapeze supports.

3.2 INSTALLATION OF SUPPORTS

A. Comply with NECA NEIS 101 for installation requirements except as specified in this article.
B. Raceway Support Methods: In addition to methods described in NECA NEIS 1, EMT, IMC, and, ERMC may be supported by openings through structure members, in accordance with NFPA 70.
C. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination must be weight of supported components plus 200 lb.
D. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
   1. To Wood: Fasten with lag screws or through bolts.
   2. To New Concrete: Bolt to concrete inserts.
   3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.
   4. To Existing Concrete: Expansion anchor fasteners.
   5. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inch thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inch thick.
   6. To Steel: Beam clamps (MSS SP-58, Type 19, 21, 23, 25, or 27), complying with MSS SP-69.
   7. To Light Steel: Sheet metal screws.
   8. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on walls by framed channel racks attached to substrate by means that comply with seismic-restraint strength and anchorage requirements.

SECTION 260533.13 - CONDUITS FOR ELECTRICAL SYSTEMS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Products or components listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.

2.2 TYPE EMT DUCT RACEWAYS AND ELBOWS

A. UL FJMX - Steel Electrical Metal Tubing (EMT-S) and Elbows: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN FJMX; including UL 797. Standard Features:
   1. Material: Steel.
   2. Exterior Coating: Zinc
   3. Interior Coating: Zinc with organic top coating.
   4. Minimum Trade Size: Metric designator 16 (trade size 1/2).

2.3 TYPE FMC DUCT RACEWAYS

A. UL DXUZ - Steel Flexible Metal Conduit (FMC-S): Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN DXUZ; including UL 1242. Standard Features:
   1. Material: Steel.
   2. Minimum Trade Size: Metric designator 16 (trade size 1/2).

2.4 TYPE IMC DUCT RACEWAYS

A. UL DYBY - Steel Intermediate Metal Conduit (IMC): Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN DYBY; including UL 1242. Standard Features:
   1. Material: Steel.
   2. Interior Coating: Zinc with organic top coating.
   3. Minimum Trade Size: Metric designator 16 (trade size 1/2).

2.5 TYPE LFMC DUCT RACEWAYS

A. UL DXHR - Steel Liquidtight Flexible Metal Conduit (LFMC-S): Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN DXHR; including UL 360. Standard Features:
   1. Material: Steel.
   2. Minimum Trade Size: Metric designator 16 (trade size 1/2).

2.6 TYPE PVC DUCT RACEWAYS AND FITTINGS

A. UL DZYR - Schedule 40 Rigid PVC Conduit (PVC-40) and Fittings: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN DZYR; including UL 651. Standard Features:
   1. Dimensional Specifications: Schedule 40.
   2. Minimum Trade Size: Metric designator 16 (trade size 1/2).
   3. Markings: For use with maximum 90 deg C wire.

2.7 FITTINGS FOR CONDUIT, TUBING, AND CABLE

A. UL DWTT - Fittings for Type ERMC, Type IMC, Type PVC, Type HDPE, Type EPEC, and Type RTRC Duct Raceways: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN DWTT; including UL 514B. Standard Features:
   1. Material: Steel.
   2. Coupling Method: Compression coupling.
   3. Expansion and Deflection Fittings: UL 651 with flexible bonding jumper.
B. UL FKAV - Fittings for Type EMT Duct Raceways: Listing Criteria: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN FKAV; including UL 514B. Standard Features:
   1. Material: Steel.
   2. Coupling Method: Compression coupling.
   3. Expansion and Deflection Fittings: UL 651 with flexible bonding jumper.
C. UL ILNR - Fittings for Type FMC Duct Raceways: Listing Criteria: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN ILNR; including UL 514B.
D. UL DXAS - Fittings for Type LFMC and Type LFNC Duct Raceways: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN DXAS; including UL 514B.

2.8 SOLVENT CEMENTS

A. UL VBEW - Solvent Cements for Nonmetallic Duct Raceways and Fittings: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with qualification and assembly requirements specified for the following UL product categories:
   1. Solvent Cements: UL CCN VBEW; including UL 340.
   2. Solvent Cement Compatibility with PVC Conduit Fittings: UL CCN DWTT; including UL 514B. Follow solvent manufacturer's published instructions.
   3. Solvent Cement Compatibility with Rigid PVC Conduit: UL CCN DZYR; including UL 651. Follow solvent manufacturer's published instructions.

3.1 SELECTION OF CONDUITS FOR ELECTRICAL SYSTEMS

A. Unless more stringent requirements are specified in the Contract Documents or manufacturer's published instructions, comply with NFPA 70 for selection of duct raceways. Consult Architect for resolution of conflicting requirements.
B. Outdoors:
   1. Exposed and Subject to Severe Physical Damage: IMC.
   2. Exposed and Subject to Physical Damage: Corrosion-resistant EMT.
   3. Exposed and Not Subject to Physical Damage: Corrosion-resistant EMT.
   4. Concealed Aboveground: EMT.
   5. Direct Buried: PVC-40.
   6. Concrete Encased in Trench: PVC-40.
   7. Concrete Encased in Trench: PVC-40.
   8. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
C. Indoors:
   1. Hazardous Classified Locations: IMC.
   2. Exposed and Subject to Severe Physical Damage: IMC.
   3. Exposed and Subject to Physical Damage: EMT.
   4. Exposed and Not Subject to Physical Damage: EMT.
   5. Concealed in Ceilings and Interior Walls and Partitions: EMT.
   6. Damp or Wet Locations: IMC.
   7. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC: Subject to wet or damp locations, use LFMC.
D. Duct Fittings: Select fittings in accordance with NEMA FB 2.10 guidelines.
   1. ERMC and IMC: Provide threaded-type fittings unless otherwise indicated.

3.2 INSTALLATION OF CONDUITS FOR ELECTRICAL SYSTEMS

A. Comply with manufacturer's published instructions.
B. Special Installation Techniques:
   1. General Requirements for Installation of Duct Raceways:
      a. Conceal conduit within finished walls, ceilings, and floors unless otherwise indicated. Install conduits parallel or perpendicular to building lines.
      b. Support conduit within 12 inch of enclosures to which attached.
      c. Install devices to seal duct raceway interiors at accessible locations. Locate seals so no fittings or boxes are between the seal and the following changes of environments. Seal interior of duct raceways at the following points:
         1) Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.
         2) Where an underground service duct raceway enters a building or structure.
         3) Conduit extending from interior to exterior of building.
         4) Conduit extending into pressurized duct raceway and equipment.
         5) Conduit extending into pressurized zones that are automatically controlled to maintain different pressure set points.
         6) Where otherwise required by NFPA 70.
      d. Do not install conduits within 2 inch of the bottom side of a metal deck roof.
      e. Keep duct raceways at least 6 inch away from parallel runs of flues and steam or hot-water pipes. Install horizontal duct raceway runs above water and steam piping.
      f. Install pull wires in empty duct raceways. Provide polypropylene or monofilament pull line with not less than 200 lb tensile strength. Leave at least 12 inch of slack at both ends of pull wire. Cap underground duct raceways designated as spare above grade alongside duct raceways in use.
   2. Types FMC, LFMC, and LFNC: Provide a maximum of 36 inch of flexible conduit for recessed and semirecessed luminaires, equipment subject to vibration, noise transmission, or movement; and for transformers and motors.
   3. Types PVC, HDPE, and EPEC: Do not install Type PVC, Type HDPE, or Type EPEC conduit where ambient temperature exceeds 122 deg F. Conduit runs must be limited to 75 deg C except where installed in a trench outside building with concrete encasement, where 90 deg C conductors are permitted.
   4. Duct Raceways Embedded in Slabs:
      a. Run duct raceways parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place duct raceway close to slab support. Secure duct raceways to reinforcement at maximum 10 ft intervals.
      b. Arrange duct raceways to cross building expansion joints with expansion fittings at right angles to the joint.
      c. Arrange duct raceways to ensure that each is surrounded by minimum of 1 inch of concrete without voids.
      d. Do not embed threadless fittings in concrete unless locations have been specifically approved by Architect.
   5. Stub-ups to Above Recessed Ceilings:
      a. Provide EMT, IMC, or ERMC for duct raceways.
      b. Provide a coupling, adapter, or insulated fitting to terminate stub-ups not terminated in hubs or in an enclosure.
   6. Duct Fittings: Install fittings in accordance with NEMA FB 2.10 guidelines.
      a. EMT: Provide compression, steel fittings. Comply with NEMA FB 2.10.
      b. Flexible Conduit: Provide only fittings listed for use with flexible conduit type. Comply with NEMA FB 2.20.
C. Interfaces with Other Work:
   1. Firestop penetrations of fire-rated floor and wall assemblies.
   2. Provide conduit hangers and supports.

SECTION 260533.16 - BOXES AND COVERS FOR ELECTRICAL SYSTEMS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Products or components listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.

2.2 METALLIC OUTLET BOXES, DEVICE BOXES, RINGS, AND COVERS

A. UL QCIT - Metallic Outlet Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Standard Features:
   1. Box having pryout openings, knockouts, threaded entries, or hubs in either the sides or the back, or both, for entrance of conduit, cable or cable fittings, with provisions for mounting outlet box cover, but without provisions for mounting wiring device directly to box.
   2. Box and Cover Material: Steel.
   3. Sheet Metal Depth: minimum 1.5 inch.
   4. Luminaire Outlet Boxes and Covers: Nonadjustable, listed and labeled for attachment of luminaire weighing up to 50 lb.
   5. Paddle Fan Outlet Boxes and Covers: Nonadjustable, designed for attachment of paddle fan weighing up to 70 lb.
B. UL QCIT - Metallic Conduit Bodies: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Means for providing access to interior of conduit or tubing system through one or more removable covers to permit pulling in conductors and cables. Conduit bodies are listed in accordance with outlet box requirements.
C. UL QCIT - Metallic Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Standard Features:
   1. Box with provisions for mounting wiring device directly to box.
   2. Material: Sheet steel.
   3. Sheet Metal Depth: minimum 1.5 inch.
D. UL QCIT - Metallic Extension Rings: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Ring intended to extend sides of outlet box or device box to increase box depth, volume, or both.
E. UL QCIT - Metallic Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Box mounted in floor with floor box cover and other components to complete floor box enclosure.
F. UL QCIT - Metallic Raised-Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Box mounted in raised-floor with floor box cover and other components to complete floor box enclosure.
G. UL QCIT - Metallic Recessed Access-Floor Boxes and Recessed Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Floor box with provisions for mounting wiring devices below floor surface and floor box cover with provisions for passage of cords to recessed wiring devices mounted within floor box.
H. UL QCIT - Metallic Concrete Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT; including UL 514A. Box intended for use in poured concrete.

2.3 NONMETALLIC OUTLET BOXES, DEVICE BOXES, RINGS, AND COVERS

A. UL QCMZ - Nonmetallic Outlet Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box having pryout openings, knockouts, threaded entries, or hubs in either the sides or the back, or both, for entrance of conduit, cable or cable fittings, or cables, with provisions for mounting outlet box cover, but without provisions for mounting wiring device directly to box.
B. UL QCMZ - Nonmetallic Conduit Bodies: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Means for providing access to interior of conduit or tubing system through one or more removable covers at junction or terminal point. In the United States, conduit bodies are listed in accordance with outlet box requirements.
C. UL QCMZ - Nonmetallic Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box with provisions for mounting wiring device directly to box.
D. UL QCMZ - Nonmetallic Extension Rings: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Ring intended to extend sides of outlet box or device box to increase box depth, volume, or both.
E. UL QCMZ - Nonmetallic Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box mounted in floor with floor box cover and other components to complete floor box enclosure.
F. UL QCMZ - Nonmetallic Raised-Floor Boxes and Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box mounted in raised-floor with floor box cover and other components to complete floor box enclosure.
G. UL QCMZ - Nonmetallic Recessed Access-Floor Boxes and Recessed Floor Box Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Floor box with provisions for mounting wiring devices below floor surface and floor box cover with provisions for passage of cords to recessed wiring devices mounted within floor box.
H. UL QCMZ - Nonmetallic Floor Nozzles: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Enclosure intended primarily as housing for receptacle, provided with means, such as collar, for surface-mounting on floor, which may or may not include stem to support it above floor level, and is sealed against the entrance of scrub water at floor level.
I. UL QCMZ - Nonmetallic Concrete Boxes and Covers: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCMZ; including UL 514C. Box intended for use in poured concrete.

2.4 JUNCTION BOXES AND PULL BOXES

A. UL BGUZ - Indoor Sheet Metal Junction and Pull Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN BGUZ; including UL 50 and UL 50E. Standard Features:
   1. Box with a blank cover that serves the purpose of joining different runs of raceway or cable.
   2. Degree of Protection: Type 1.
B. UL BGUZ - Indoor Cast-Metal Junction and Pull Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN BGUZ; including UL 50 and UL 50E. Standard Features:
   1. Box with a blank cover that serves the purpose of joining different runs of raceway or cable.
   2. Degree of Protection: Type 1.
C. UL BGUZ - Outdoor Polymeric Junction and Pull Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN BGUZ; including UL 514C. Standard Features:
   1. Box with a blank cover that serves the purpose of joining different runs of raceway or cable.
   2. Degree of Protection: Type 3R.
D. UL DXAS - Fittings for Type LFMC and Type LFNC Duct Raceways: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN DXAS; including UL 514B.

2.5 COVER PLATES FOR DEVICE BOXES

A. UL QCIT or QCMZ - Metallic Cover Plates for Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT or UL CCN QCMZ; including UL 514D. Standard Features:
   1. Cover plate-Securing Screws: Metal with head color to match cover plate finish.
   2. Damp and Wet Locations: Listed, labeled, and marked for location and use. Provide gaskets and accessories necessary for compliance with listing.
   3. Cover Plate Material: As indicated on architectural Drawings.
B. UL QCIT or QCMZ - Nonmetallic Cover Plates for Device Boxes: Investigated, labeled, and marked by qualified electrical testing laboratory in accordance with UL CCN QCIT or UL CCN QCMZ; including UL 514D. Standard Features:
   1. Cover Plate-Securing Screws: Metal with head color to match cover plate finish.
   2. Damp and Wet Locations: Listed, labeled, and marked for location and use. Provide gaskets and accessories necessary for compliance with listing.
   3. Cover Plate Material: As indicated on architectural Drawings.
   4. Color: As indicated on architectural Drawings.

3.1 SELECTION OF BOXES AND COVERS FOR ELECTRICAL SYSTEMS

A. Unless more stringent requirements are specified in Contract Documents or manufacturer's published instructions, comply with NFPA 70 for selection of boxes and enclosures. Consult Architect for resolution of conflicting requirements.
B. Degree of Protection:
   1. Outdoors: Type 3R unless otherwise indicated.
   2. Indoors: Type 1 unless otherwise indicated.
C. Exposed Boxes Installed Less Than 2.5 m (8 ft) Above Floor:
   1. Boxes with knockouts or unprotected openings are prohibited.
   2. Provide exposed cover. Flat covers with angled mounting slots or knockouts are prohibited.

3.2 INSTALLATION OF BOXES AND COVERS FOR ELECTRICAL SYSTEMS

A. Comply with manufacturer's published instructions.
B. Special Installation Techniques:
   1. Mount boxes at heights indicated on Drawings. If mounting heights of boxes are not individually indicated, give priority to ADA requirements. Install boxes with height measured to center of box unless otherwise indicated.
   2. Locate boxes so that cover or plate will not span different building finishes.
   3. Support boxes in recessed ceilings independent of ceiling tiles and ceiling grid.

SECTION 260923 - LIGHTING CONTROL DEVICES

2.1 ELECTRONIC TIME SWITCHES

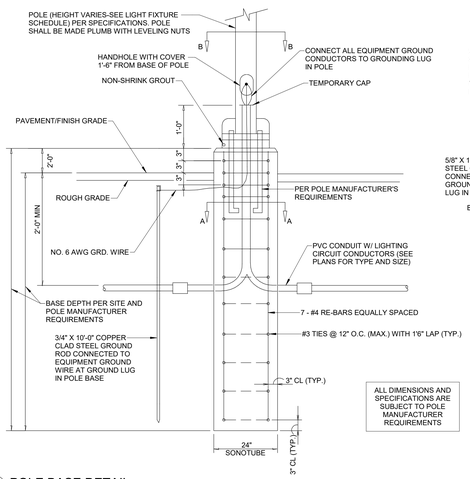
A. Electronic Time Switches: Solid state, programmable, with alphanumeric display; complying with UL 917.
   1. Listed and labeled in accordance with NFPA 70, by a qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
   2. Occupancy Sensor Operation: Unless otherwise indicated, turn lights on when occupancy sensors detect occupancy and turn lights off when unoccupied, with a time delay for turning lights off, adjustable over a minimum range of 1 to 15 minutes.
   3. Operating Ambient Conditions: Dry interior conditions, 32 to 120 deg F.
   4. Switch Rating: Not less than 800 VA LED load at 120 V, 1200 VA LED load at 277 V, and 800 W incandescent.
   5. Standard Range: 180-degree field of view, field adjustable from 180 to 40 degrees with a minimum coverage of 900 sq. ft..
   6. Sensing Technology: PIR.
   7. Switch Type: SP, field-selectable automatic "on," or manual "on," automatic "off."
   8. Capable of controlling load in three-way application.
   9. Voltage: Match the circuit voltage.
   10. Concealed, field-adjustable, "off" time-delay selector at up to 30 minutes.
   11. Color: As indicated by Architect.
   12. Faceplate: Color matched to switch.

2.4 LIGHTING CONTACTORS

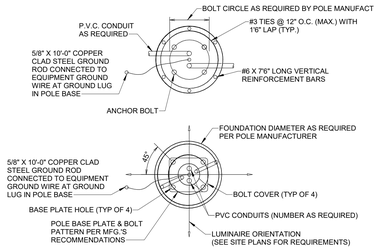
A. Description: Electrically operated and mechanically, or electrically held, combination-type lighting contactors with fusible switch, complying with NEMA ICS 2 and UL 508.
   1. Current Rating for Switching: Listing or rating consistent with type of load served, including tungsten filament, inductive, and high-inrush ballast (ballast with 15 percent or less THD of normal load current).
   2. Fault Current Withstand Rating: Equal to or exceeding the available fault current at the point of installation.
   3. Enclosure: Comply with NEMA 250.
   4. Provide with control and spill devices as indicated on Drawings, matching the NEMA type specified for the enclosure.

2.5 CONDUCTORS AND CABLES

A. Power Wiring to Supply Side of Remote-Control Power Sources: Not smaller than No. 12 AWG.
B. Classes 2 and 3 Control Cable: Multiconductor cable with stranded-copper conductors not smaller than No.



ALL DIMENSIONS AND SPECIFICATIONS ARE SUBJECT TO POLE MANUFACTURER REQUIREMENTS



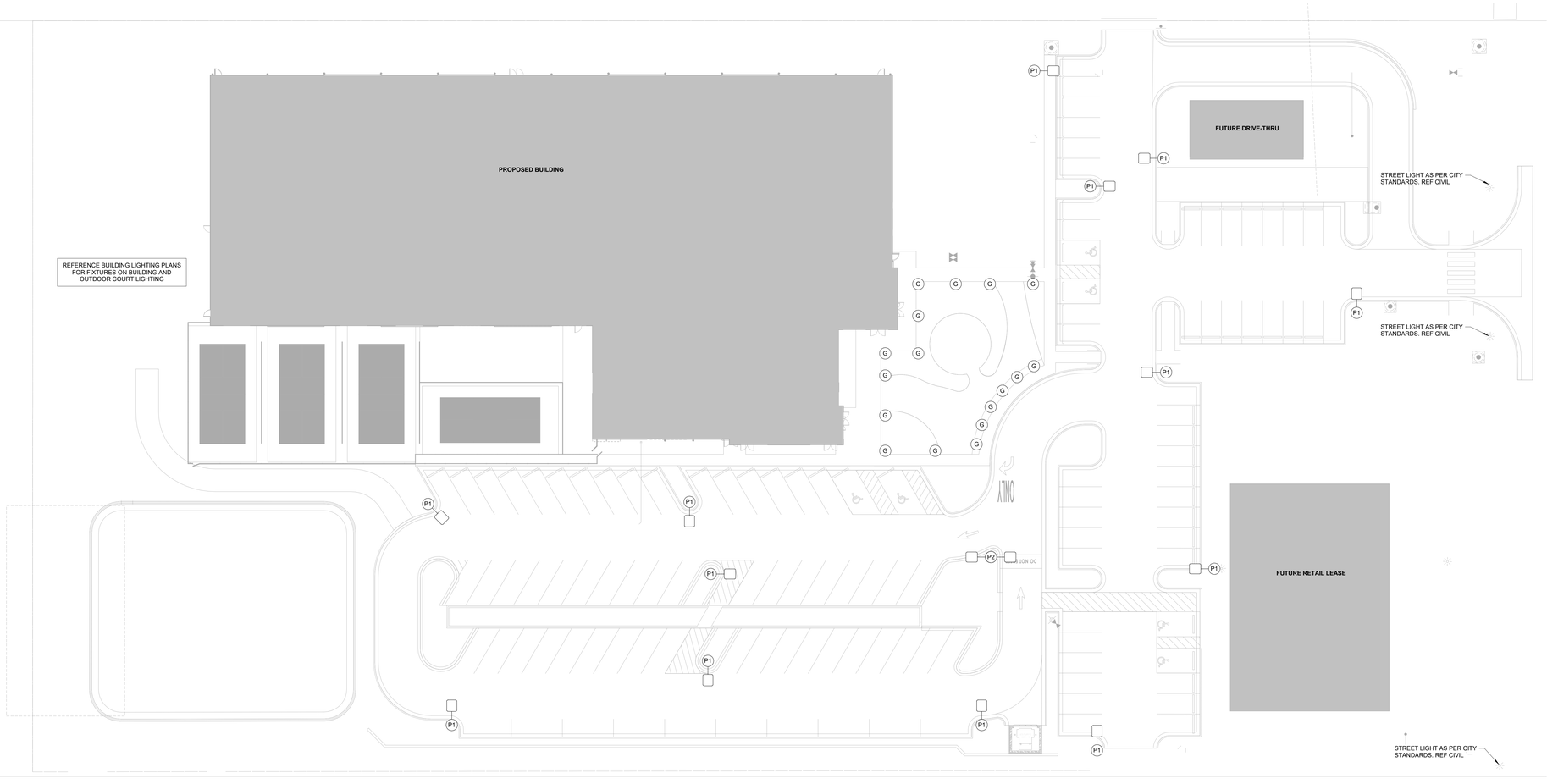
POLE FOUNDATION NOTES

1. PROVIDE 3500 PSI MIN @ 28 DAYS COMPRESSIVE STRENGTH CONCRETE.
2. CONTRACTOR SHALL NOTIFY OWNERS GEOTECHNICAL ENGINEERING CONSULTANT PRIOR TO POURING CONCRETE IF SOFT OR LOOSE SOIL LAYERS ARE ENCOUNTERED DURING THE DRILLING PROCESS.
3. CONTRACTOR SHALL REMOVE WATER, IF PRESENT IN DRILLED SHAFT HOLE BEFORE CONCRETE IS POURED.
4. FOUNDATION EXCAVATION SHALL BE BY AUGER SIZE (AS REQUIRED) IN UNDISTURBED OR PROPERLY COMPACTED FILL PER PROJECT SPECIFICATIONS AND/OR POLE MANUFACTURER REQUIREMENTS.
5. FOUNDATION SHALL HAVE A MINIMUM ALLOWABLE END BEARING OF 2500 PSF.
6. ALL ANCHORAGE HARDWARE SHALL BE HOT-DIPPED GALVANIZED, INCLUDING LOCK WASHERS, LEVELING NUTS AND ANCHOR BOLTS.
7. FINISH TOP OF FOUNDATION WITH 1" X 1" CHAMFER ALL AROUND.
8. VERTICAL AND HORIZONTAL REINFORCING STEEL SHALL BE EPOXY COATED AND FIELD TIED DURING INSTALLATION. WELDING NOT PERMITTED.

2 POLE BASE DETAIL
12" = 1'-0"

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.



1 ELECTRICAL SITE PLAN
1" = 20'-0"

NORTH

CLIENT:

Burris Architecture
Rogers, AR 72712
479.936.5353

CLIENT JOB NUMBER: 25132

CONSULTANT:

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No. 2920
ARKANSAS

NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

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		WORK IN PROGRESS

PROJECT NUMBER: 251002
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SHEET TITLE:

SITE ELECTRICAL PLAN

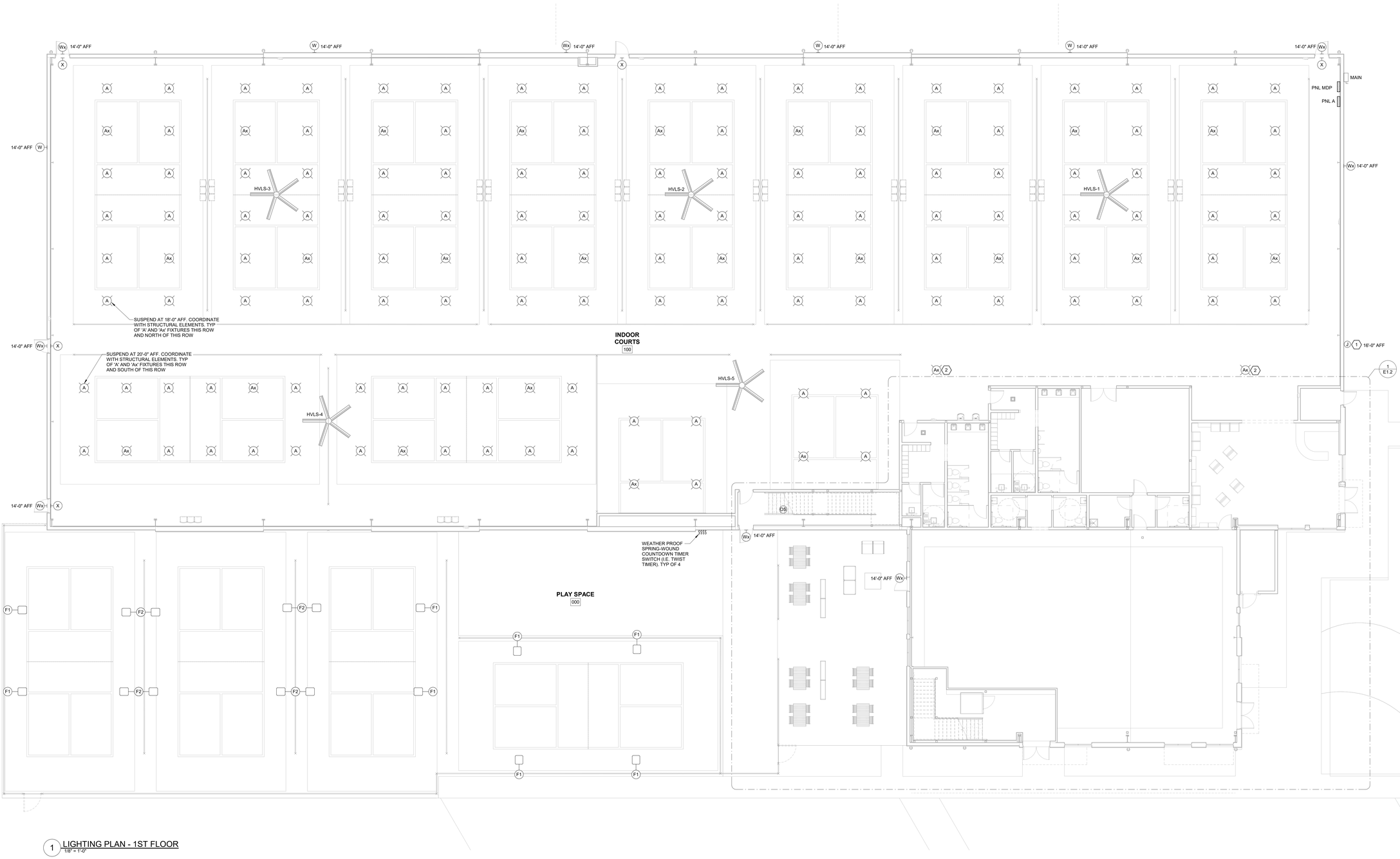
E1.0

SHEET KEYNOTES

1. JUNCTION BOX ON EXTERIOR WALL FOR BUILDING SIGN. FIELD COORDINATE ROUGH-IN REQUIREMENTS WITH SIGNS TO BE INSTALLED AND ADJUST ACCORDINGLY. PROVIDE DISCONNECTING MEANS AS REQUIRED.
2. INDICATES NIGHT LIGHT. WIRE FOR CONTINUOUS OPERATION.

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ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.



1 LIGHTING PLAN - 1ST FLOOR
1/8" = 1'-0"

CLIENT:
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107 W. Main Suite 1 Jonesboro, AR 72401
479.935.3531
CLIENT JOB NUMBER: 25132

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ISSUE:

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PROJECT NUMBER: 251002
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SHEET TITLE:

ELECTRICAL LIGHTING PLAN FIRST FLOOR

E1.1

SHEET KEYNOTES

1. J-BOX WITH CONNECTED 120V LIGHTING CONTROL RELAY. RELAY COMMUNICATES WIRELESSLY OR VIA LOW-VOLTAGE TO CONNECTED OCCUPANCY SENSORS AS SHOWN ON DRAWINGS. OUTPUT IS SWITCHLEG OR 0-10V SIGNAL TO CONTROLLED FIXTURES AS SHOWN ON DRAWINGS.

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.



1 LIGHTING PLAN - 1ST FLOOR ENLARGED
1/4" = 1'-0"

CLIENT:

Burris Architecture
Contact: Mike Burris
479.935.3531

CLIENT JOB NUMBER: 25132

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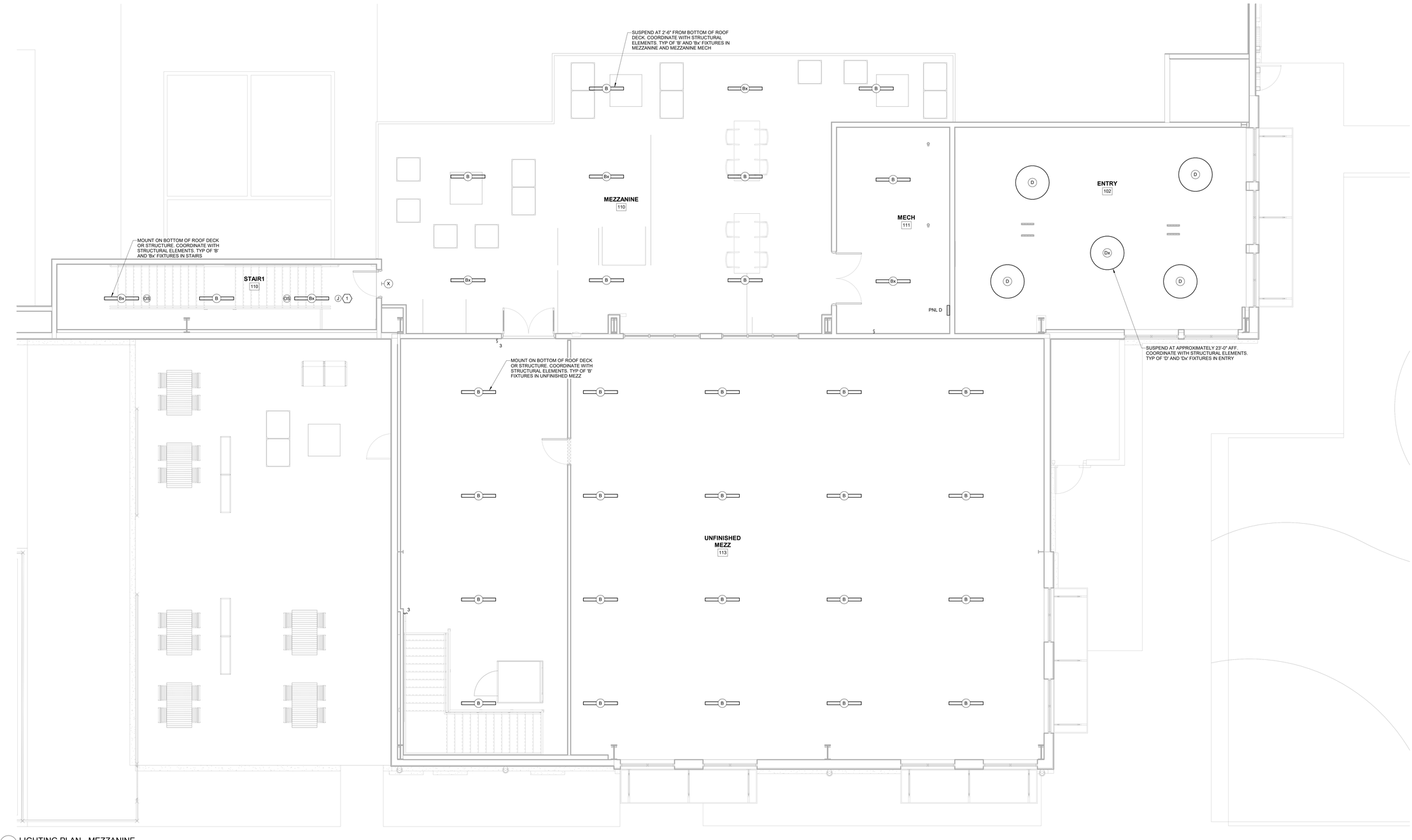
PROJECT NUMBER: 251002
DRAWN BY: MTN
CHECKED BY: KNJ

SHEET TITLE:
ELECTRICAL
LIGHTING PLAN
FIRST FLOOR
ENLARGED

E1.2

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ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.



1 LIGHTING PLAN - MEZZANINE
1/4" = 1'-0"

CLIENT:

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Bentonville, AR 72712
479.936.9531

CLIENT JOB NUMBER: 25132

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SHEET TITLE:

ELECTRICAL LIGHTING PLAN MEZZANINE

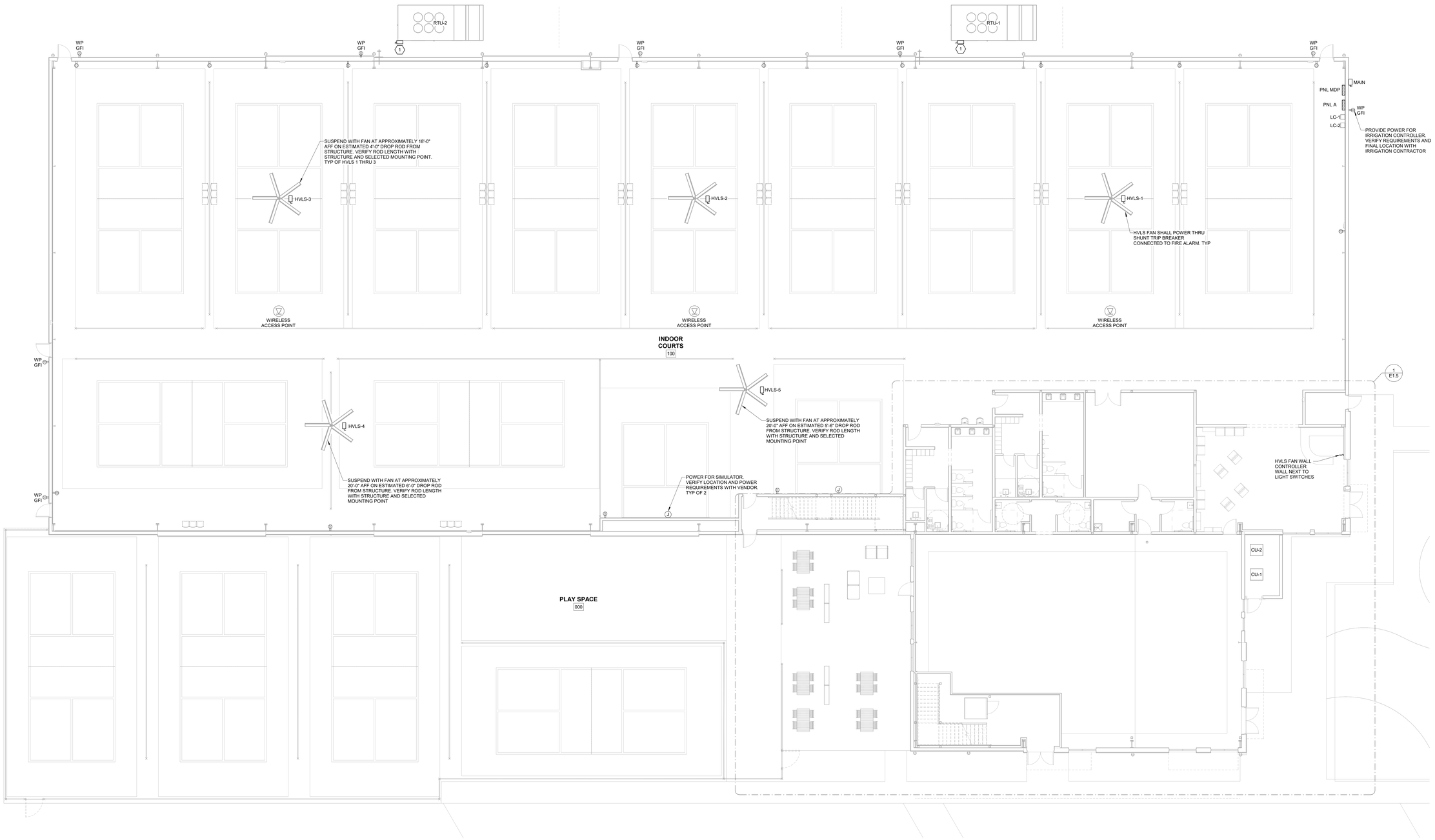
E1.3

SHEET KEYNOTES

1. FACTORY-MOUNTED AND PRE-WIRED NEMA-3R DISCONNECT INCLUDED WITH UNIT.

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1 POWER PLAN - 1ST FLOOR
1/8" = 1'-0"

CLIENT:

Burris Architecture
501 N. Main, Centerton, AR 72712
479.936.9353

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SHEET TITLE:

ELECTRICAL POWER PLAN FIRST FLOOR

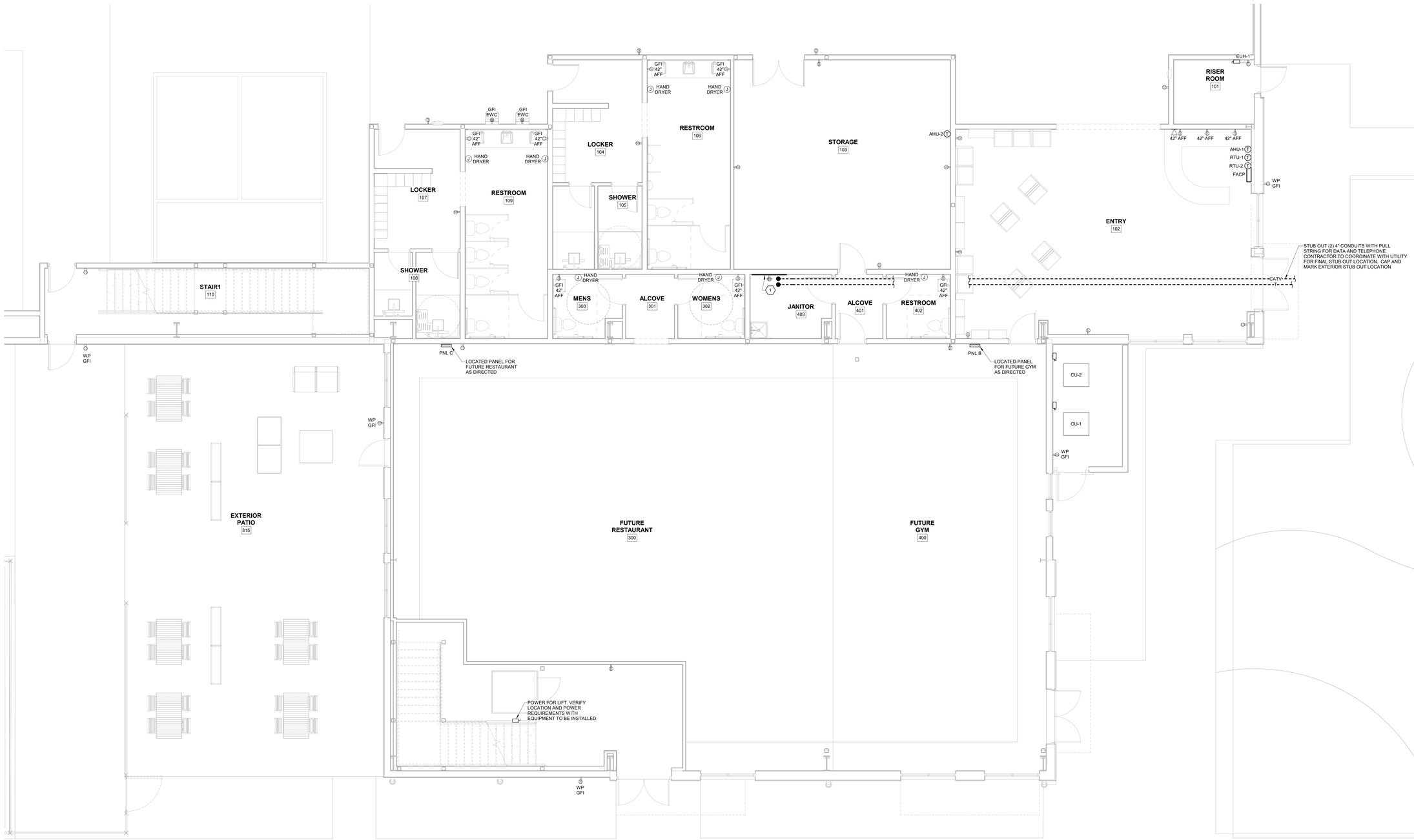
E1.4

SHEET KEYNOTES

1. PROVIDE 4'X8' 3/4" PLYWOOD BACKBOARD ON WALL FOR OWNER'S IT EQUIPMENT WITH DEDICATED QUADRUPLEX OUTLET. VERIFY SIZE OF BACKBOARD AND EQUIPMENT REQUIREMENTS WITH OWNER.

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ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.



1 POWER PLAN - 1ST FLOOR ENLARGED
1/4" = 1'-0"

CLIENT:

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Bentonville, AR 72712
479.936.3531

CLIENT JOB NUMBER: 25132

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SHEET TITLE:
ELECTRICAL POWER PLAN FIRST FLOOR ENLARGED

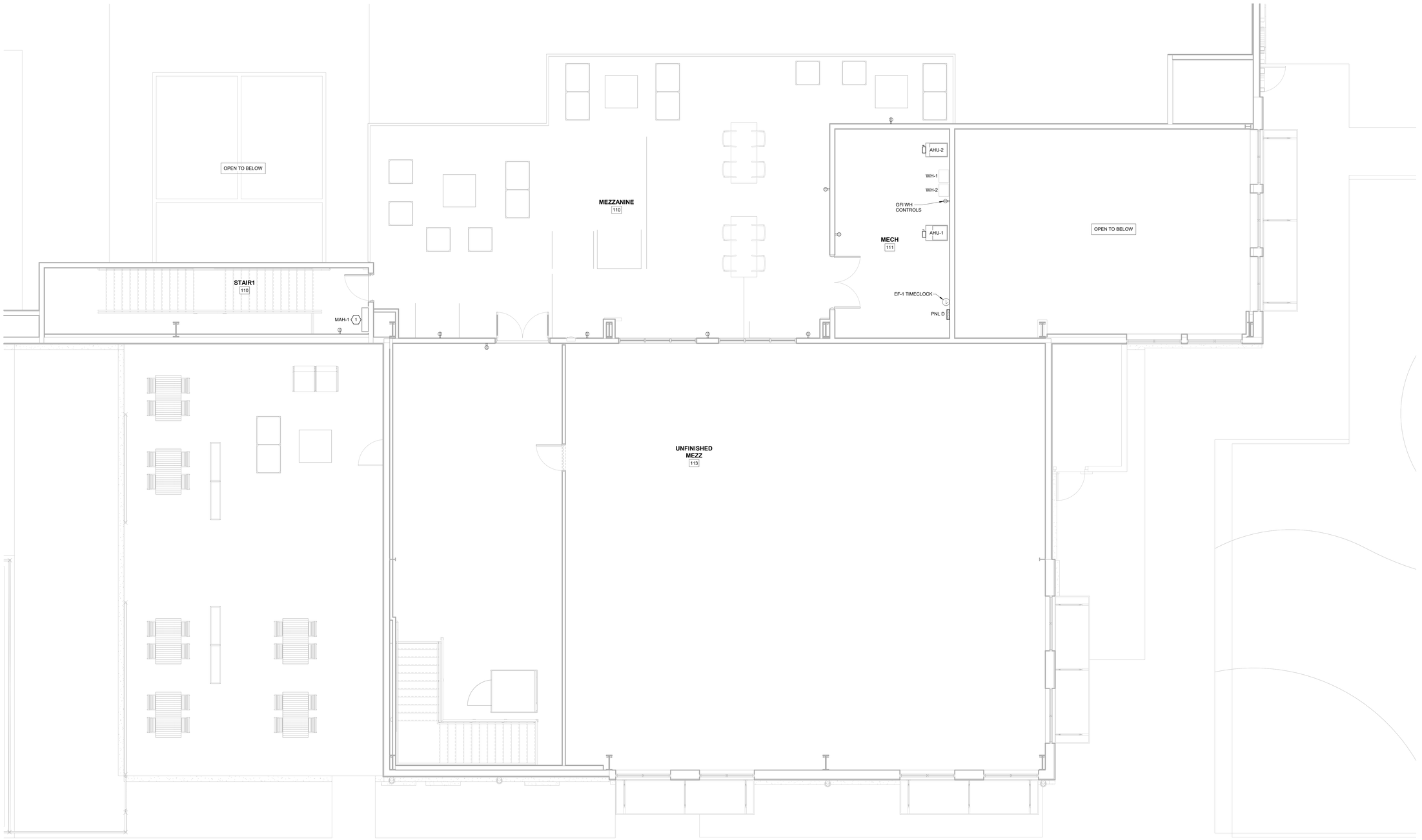
E1.5

SHEET KEYNOTES

1. INDOOR AIR HANDLER UNIT IS POWERED THROUGH OUTDOOR UNIT.

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ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.



1 POWER PLAN - MEZZANINE
1/4" = 1'-0"

CLIENT:

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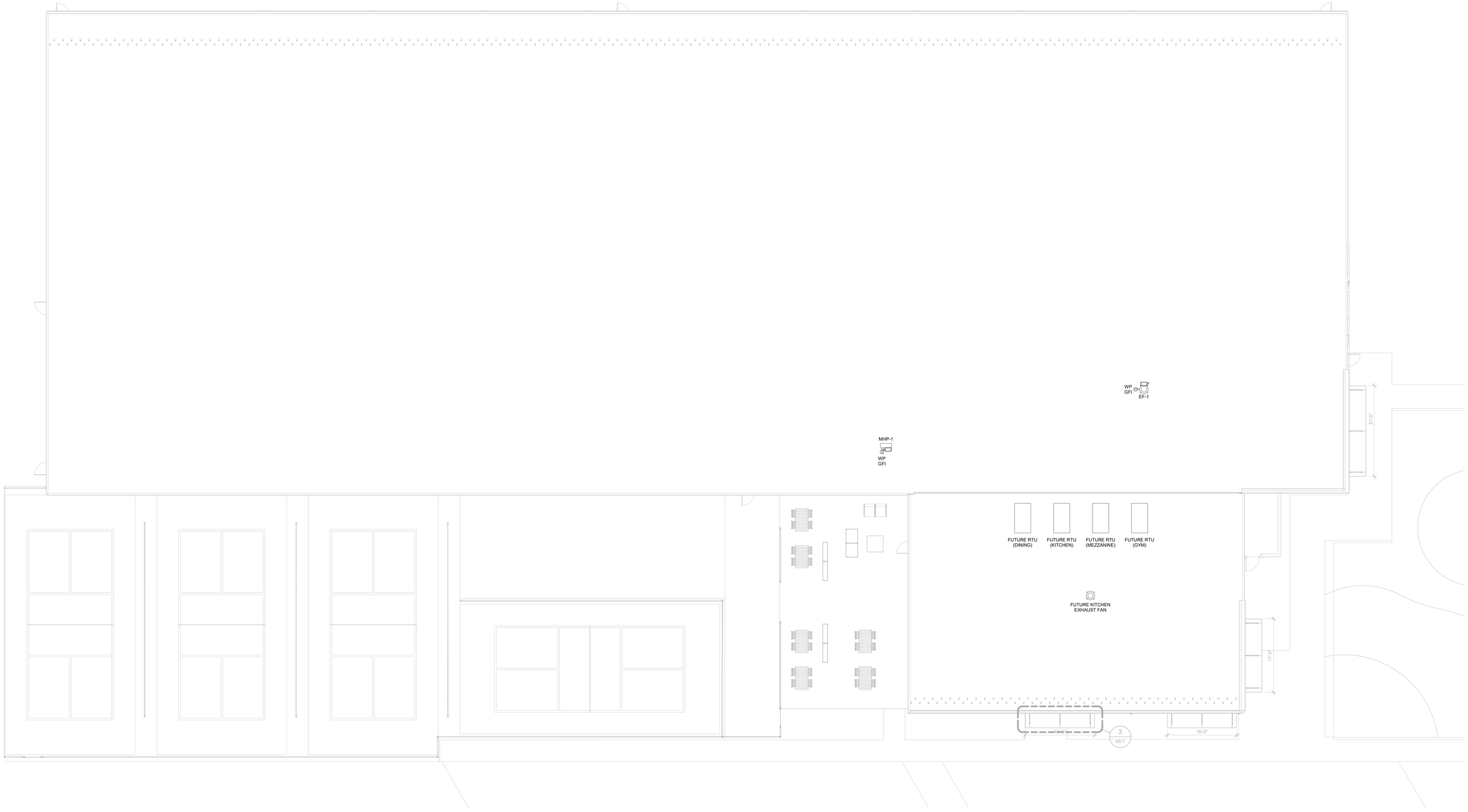
SHEET TITLE:

ELECTRICAL POWER PLAN MEZZANINE

E1.6

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ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.



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

CLIENT:

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Conway, Arkansas
479.936.3531

CLIENT JOB NUMBER: 25132

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		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: MTN
CHECKED BY: KNJ

SHEET TITLE:

ELECTRICAL POWER PLAN ROOF

E1.7

ELECTRICAL LIGHTING DEVICE SCHEDULE

MARK	QTY	DESCRIPTION	ELECTRICAL DATA		LAMP DATA				BASIS OF DESIGN		NOTES
			LOAD (VA)	VOLTAGE	QTY	WATTS	LUMENS	COLOR TEMP (K)	MANUFACTURER	MODEL OR SERIES	
A	116	HIGH BAY	166	120 / 1 / 60	1	132	21000	4000	ORACLE LIGHTING	CB2-CPA-LED-12000L/15000L/21000L-DIM10-MVOLT-WD-30K/35K/40K/50K-85	FIELD SELECT FOR 21000 LUMEN AND 4000K CCT OUTPUT
Ax	26	HIGH BAY WITH BATTERY BACKUP	166	120 / 1 / 60	1	132	21000	4000	ORACLE LIGHTING	CB2-CPA-LED-12000L/15000L/21000L-DIM10-MVOLT-WD-30K/35K/40K/50K-85-EMG-LED-G4-120-347V-CP-25W-HV	EMG BATTERY, FIELD SELECT FOR 21000 LUMEN AND 4000K CCT OUTPUT
B	48	4FT LINEAR STRIP	39	120 / 1 / 60	1	31	4000	4000	ORACLE LIGHTING	4-OCT-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-V3	FIELD SELECT FOR 4000 LUMEN AND 4000K CCT OUTPUT
Bx	8	4FT LINEAR STRIP WITH BATTERY BACKUP	39	120 / 1 / 60	1	31	4000	4000	ORACLE LIGHTING	4-OCT-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-V3-0-EMG-LED-10W	EMG BATTERY, FIELD SELECT FOR 4000 LUMEN AND 4000K CCT OUTPUT
C	52	6 INCH SURFACE MOUNT DOWNLIGHT	19	120 / 1 / 60	1	15	1100	4000	ELITE LED LIGHTING	RL675-1100L-DIMTR-120-27K/30K/35K/40K/50K/90-WH	SUITABLE FOR WET LOCATIONS, FIELD SELECT FOR 4000K CCT OUTPUT
Cx	18	6 INCH SURFACE MOUNT DOWNLIGHT WITH BATTERY BACKUP	19	120 / 1 / 60	1	15	1100	4000	ELITE LED LIGHTING	RL675-1100L-DIMTR-120-27K/30K/35K/40K/50K/90-WH EMG-LED-G-16W-HV-FLEX	EMG BATTERY, SUITABLE FOR WET LOCATIONS, FIELD SELECT FOR 4000K CCT OUTPUT
D	4	ROUND DIRECT / INDIRECT PENDANT	95	120 / 1 / 60	1	76	8000	4000	ORACLE LIGHTING	LOOP-RD-DI-LED-2-47-8000L-DIM10-MVOLT-30K/35K/40K-90-WH-SM	
Dx	1	ROUND DIRECT / INDIRECT PENDANT WITH BATTERY BACKUP	95	120 / 1 / 60	1	76	8000	4000	ORACLE LIGHTING	LOOP-RD-DI-LED-2-47-8000L-DIM10-MVOLT-30K/35K/40K-90-WH-REM-EMG-LED-15W-HV-FLEX-SM	EMG BATTERY
F1	8	POLE MOUNTED COURT LIGHT	625	120 / 1 / 60	1	500	75000	5000	ASD	ASD-SPFL7-A5000D50	20' MOUNTING HEIGHT
F2	4	POLE MOUNTED COURT LIGHT	1250	120 / 1 / 60	2	500	75000	5000	ASD	ASD-SPFL7-A5000D50	20' MOUNTING HEIGHT
G	17	DOME BOLLARD	25	120 / 1 / 60	1	20	2000	4000	ORACLE LIGHTING	OBO-105-LED-2000L-DIM10-MVOLT-40K-85-BZ	
H	8	EXTERIOR BLADE WALL SCONCE	50	120 / 1 / 60	1	40	3200	4000	ASD	ASD-LWS27N-72D40BK	FIELD SELECT FOR 4000K CCT OUTPUT
P1	13	POLE MOUNTED PARKING LOT LIGHT	199	120 / 1 / 60	1	159	18400	4000	U.S. ARCHITECTURAL	VLL/PLED-III/40-1225-40K/UNV/1	20' MOUNTING HEIGHT, B3-U0-G3
P2	1	POLE MOUNTED PARKING LOT LIGHT	398	120 / 1 / 60	2	159	18400	4000	U.S. ARCHITECTURAL	VLL/PLED-III/40-1225-40K/UNV/2-180	20' MOUNTING HEIGHT, B3-U0-G3
V1	4	4 FT WALL MOUNTED VANITY	44	120 / 1 / 60	1	35	3200	4000	ASD	ASD-LVF21-24D25CC-BZ	FIELD SELECT FOR 4000K CCT OUTPUT
V2	3	2 FT WALL MOUNTED VANITY	31	120 / 1 / 60	1	25	2000	4000	ASD	ASD-LVF21-24D25CC-BZ	FIELD SELECT FOR 4000K CCT OUTPUT
W	4	WALL PACK	125	120 / 1 / 60	1	100	13000	4000	ORACLE LIGHTING	OWP-FC-304-LED-7000L/9000L/13000L-DIM-MVOLT-30K/40K/50K-BZ-PHC	FIELD SELECT FOR 13000 LUMEN AND 4000K CCT OUTPUT
Wx	8	WALL PACK WITH BATTERY BACKUP	125	120 / 1 / 60	1	100	13000	4000	ORACLE LIGHTING	OWP-FC-304-LED-7000L/9000L/13000L-DIM-MVOLT-30K/40K/50K-O-EMG-LED-16W-HV-BZ-PHC	EMG BATTERY, FIELD SELECT FOR 13000 LUMEN AND 4000K CCT OUTPUT
X	13	EDGE LIT EXIT SIGN	5	120 / 1 / 60	1	4	N/A	N/A	MAXILUME	ELX-LED-619-G/R-1-CL-AL	

PROJECT LIGHTING COORDINATED WITH CURTIS STOUT.
CONTACT ROD STULL
(rstull@chstout.com, 479-957-0780)
TO REQUEST SUBMITTAL PACKAGE

HIGH VELOCITY LOW SPEED FAN SCHEDULE

MARK	AREA SERVED	BASIS OF DESIGN		DIAMETER (FT)	WEIGHT (LBS)	MAX RPM	ELECTRICAL DATA		
		MANUFACTURER	MODEL				VOLTS	PHASE	FULL-LOAD AMPS
HVLS-1	INDOOR COURTS	GREENHECK	DC-5-12-13	12	103	103	120	1	5.0
HVLS-2	INDOOR COURTS	GREENHECK	DC-5-12-13	12	103	103	120	1	5.0
HVLS-3	INDOOR COURTS	GREENHECK	DC-5-12-13	12	103	103	120	1	5.0
HVLS-4	INDOOR COURTS	GREENHECK	DC-5-12-13	12	103	103	120	1	5.0
HVLS-5	INDOOR COURTS	GREENHECK	DC-5-12-13	12	103	103	120	1	5.0

NOTES:
1. MOTOR SHALL BE VARIABLE SPEED, UL/cUL-507 LISTED IN APPROPRIATE ENCLOSURE.
2. PROVIDE STANDARD CONTROLLER FAN CONTROL IN SPACE AS SHOWN ON PLANS.
3. REFERENCE MANUFACTURER SUBMITTALS AND DRAWINGS FOR ADDITIONAL INFORMATION.
4. VERIFY ALL OPTIONS AND FINISH WITH OWNER.
5. REF PLANS FOR ESTIMATE DROP LENGTH. VERIFY LENGTH WITH FINAL CONNECTION POINT. VERIFY CLEARANCE WITH STRUCTURE.
6. PROVIDE MOUNTING BRACKET AS REQUIRED FOR STRUCTURE TYPE.

PANEL MDP

VOLTAGE (L-N): 120 V
VOLTAGE (L-L): 208 V
PHASES, WIRES: 3 Φ 4 W
MINIMUM BUS CAPACITY (A): 1200 A
MAIN O.C. DEVICE (A): 1200 A
ENCLOSURE TYPE: NEMA 1
MOUNTING: SURFACE
A/C RATING (A): 60000
NOTES: ----

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE A VA LOAD	PHASE B VA LOAD	PHASE C VA LOAD	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	PANEL A	200	3	750	0		3	400	PANEL B	2
3	--	--	--		0	0	--	--	--	4
5	--	--	--			0	--	--	--	6
7	PANEL C	400	3	1440	7374		3	200	PANEL D	8
9	--	--	--		1440	5094	--	--	--	10
11	--	--	--			0	2964	--	--	12
13	RTU-1	300	3	33732	33732		3	300	RTU-2	14
15	--	--	--		33732	33732	--	--	--	16
17	--	--	--			33732	33732	--	--	18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				CONNECTED LOAD PHASE TOTALS (VA)						
				77028	73998	70428				

	CONNECTED LOAD...	DEMAND FACTOR	DEMAND LOAD (VA)
COOLING	11112 VA	100.00%	11112 VA
HEATING	750 VA	100.00%	750 VA
HEATING AND COOLING	205272 VA	100.00%	205272 VA
MOTORS	4320 VA	110.52%	4775 VA

DEMAND LOAD	221909 VA
SPARE CAPACITY	210092 VA
SPARE CAPACITY	584 A
SPARE CAPACITY (%)	48.7
PHASE BALANCE	
A TO B (%)	96.1
B TO C (%)	95.2
C TO A (%)	91.4

TOTAL:	221454 VA	221909 VA
LOAD (AMPS):	615 A	616 A

PANEL A

VOLTAGE (L-N): 120 V
VOLTAGE (L-L): 208 V
PHASES, WIRES: 3 Φ 4 W
MINIMUM BUS CAPACITY (A): 200 A
MAIN O.C. DEVICE (A): 200 A MLO
ENCLOSURE TYPE: NEMA 1
MOUNTING: SURFACE
A/C RATING (A): 10000
NOTES: ----

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE A VA LOAD	PHASE B VA LOAD	PHASE C VA LOAD	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	EUH-1	20	1	750						2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				CONNECTED LOAD PHASE TOTALS (VA)						
				750	0	0				

	CONNECTED LOAD...	DEMAND FACTOR	DEMAND LOAD (VA)
HEATING	750 VA	100.00%	750 VA
MOTORS	0 VA	0.00%	0 VA

DEMAND LOAD	750 VA
SPARE CAPACITY	71250 VA
SPARE CAPACITY	198 A
SPARE CAPACITY (%)	99
PHASE BALANCE	
A TO B (%)	
B TO C (%)	
C TO A (%)	0

TOTAL:	750 VA	750 VA
LOAD (AMPS):	2 A	2 A

PANEL B

VOLTAGE (L-N): 120 V
VOLTAGE (L-L): 208 V
PHASES, WIRES: 3 Φ 4 W
MINIMUM BUS CAPACITY (A): 200 A
MAIN O.C. DEVICE (A): 200 A MLO
ENCLOSURE TYPE: NEMA 1
MOUNTING: SURFACE
A/C RATING (A): 10000
NOTES: ----

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE A VA LOAD	PHASE B VA LOAD	PHASE C VA LOAD	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				CONNECTED LOAD PHASE TOTALS (VA)						
				0	0	0				

	CONNECTED LOAD...	DEMAND FACTOR	DEMAND LOAD (VA)

DEMAND LOAD	0 VA
SPARE CAPACITY	72000 VA
SPARE CAPACITY	200 A
SPARE CAPACITY (%)	100
PHASE BALANCE	
A TO B (%)	
B TO C (%)	
C TO A (%)	

TOTAL:	0 VA	0 VA
LOAD (AMPS):	0 A	0 A

PANEL C

VOLTAGE (L-N): 120 V
VOLTAGE (L-L): 208 V
PHASES, WIRES: 3 Φ 4 W
MINIMUM BUS CAPACITY (A): 400 A
MAIN O.C. DEVICE (A): 400 A MLO
ENCLOSURE TYPE: NEMA 1
MOUNTING: SURFACE
A/C RATING (A): 22000
NOTES: ----

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE A VA LOAD	PHASE B VA LOAD	PHASE C VA LOAD	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	MHP-1	20	2	1440						2
3	--	--	--		1440					4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				CONNECTED LOAD PHASE TOTALS (VA)						
				1440	1440	0				

	CONNECTED LOAD...	DEMAND FACTOR	DEMAND LOAD (VA)
HEATING AND COOLING	2880 VA	100.00%	2880 VA
MOTORS	0 VA	0.00%	0 VA

DEMAND LOAD	2880 VA
SPARE CAPACITY	141120 VA
SPARE CAPACITY	392 A
SPARE CAPACITY (%)	98
PHASE BALANCE	
A TO B (%)	100
B TO C (%)	
C TO A (%)	0

TOTAL:	2880 VA	2880 VA
LOAD (AMPS):	8 A	8 A

PANEL D

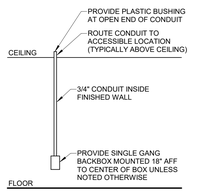
VOLTAGE (L-N): 120 V
VOLTAGE (L-L): 208 V
PHASES, WIRES: 3 Φ 4 W
MINIMUM BUS CAPACITY (A): 200 A
MAIN O.C. DEVICE (A): 200 A MLO
ENCLOSURE TYPE: NEMA 1
MOUNTING: SURFACE
A/C RATING (A): 10000
NOTES: ----

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE A VA LOAD	PHASE B VA LOAD	PHASE C VA LOAD	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CU-1	50	2	3276	1818		1	20	AHU-1	2
3	--	--	--		3276	1818	1	20	AHU-2	4
5	CU-2	30	2			2280	684	1	20	EF-1	6
7	--	--	--	2280						8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				CONNECTED LOAD PHASE TOTALS (VA)						
				7374	5094	2964				

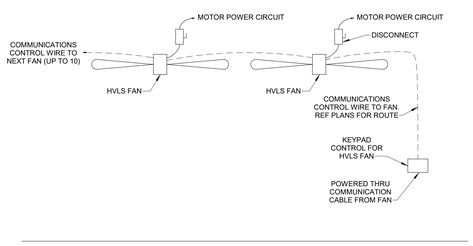
	CONNECTED LOAD...	DEMAND FACTOR	DEMAND LOAD (VA)
COOLING	11112 VA	100.00%	11112 VA
MOTORS	4320 VA	110.52%	4775 VA

DEMAND LOAD	15887 VA
SPARE CAPACITY	56114 VA
SPARE CAPACITY	156 A
SPARE CAPACITY (%)	78
PHASE BALANCE	
A TO B (%)	69.1
B TO C (%)	58.2
C TO A (%)	40.2

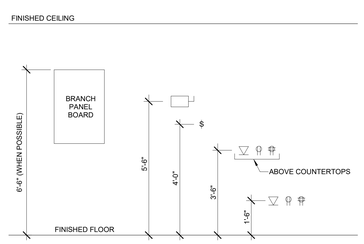
TOTAL:	15432 VA	15887 VA
LOAD (AMPS):	43 A	44 A



4 TYPICAL LOW VOLTAGE ROUGH-IN
NTS

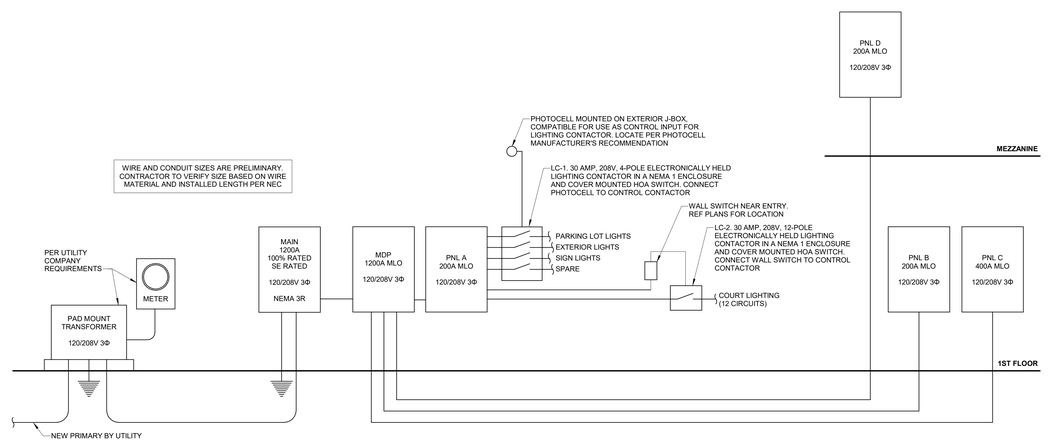


3 HVLS FAN CONTROL
NTS



NOTES:
1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS. REPORT CONFLICTS TO ARCHITECT/ENGINEER **PRIOR TO ROUGH-IN**.
2. ALL SWITCHED TO BE MOUNTED AS CLOSE TO DOOR JAMB AS POSSIBLE. COORDINATE ALL SWITCH LOCATIONS WITH ARCHITECTURAL PLANS AND DETAILS.
3. GENERAL MOUNTING HEIGHTS ARE AS INDICATED, UNLESS NOTES OTHERWISE ON PLANS.
4. MOUNTING HEIGHTS INDICATED ARE ABOVE FINISHED FLOOR TO HORIZONTAL CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.

2 TYPICAL DEVICE MOUNTING
NTS



1 RISER
NTS

CLIENT:
Burris Architecture
479.936.3531
CLIENT JOB NUMBER: 25132

CONSULTANT:
FORWARD ENGINEERS
501 N 2nd St
P.O. Box 20098
Rogers, AR 72756
(479) 282-1028
www.forwardeng.com

CERTIFICATE OF AUTHORIZATION
FORWARD ENGINEERS, PLLC
No. 2023
ARKANSAS

NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:		
MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER:	251002
DRAWN BY:	MTN
CHECKED BY:	KNJ

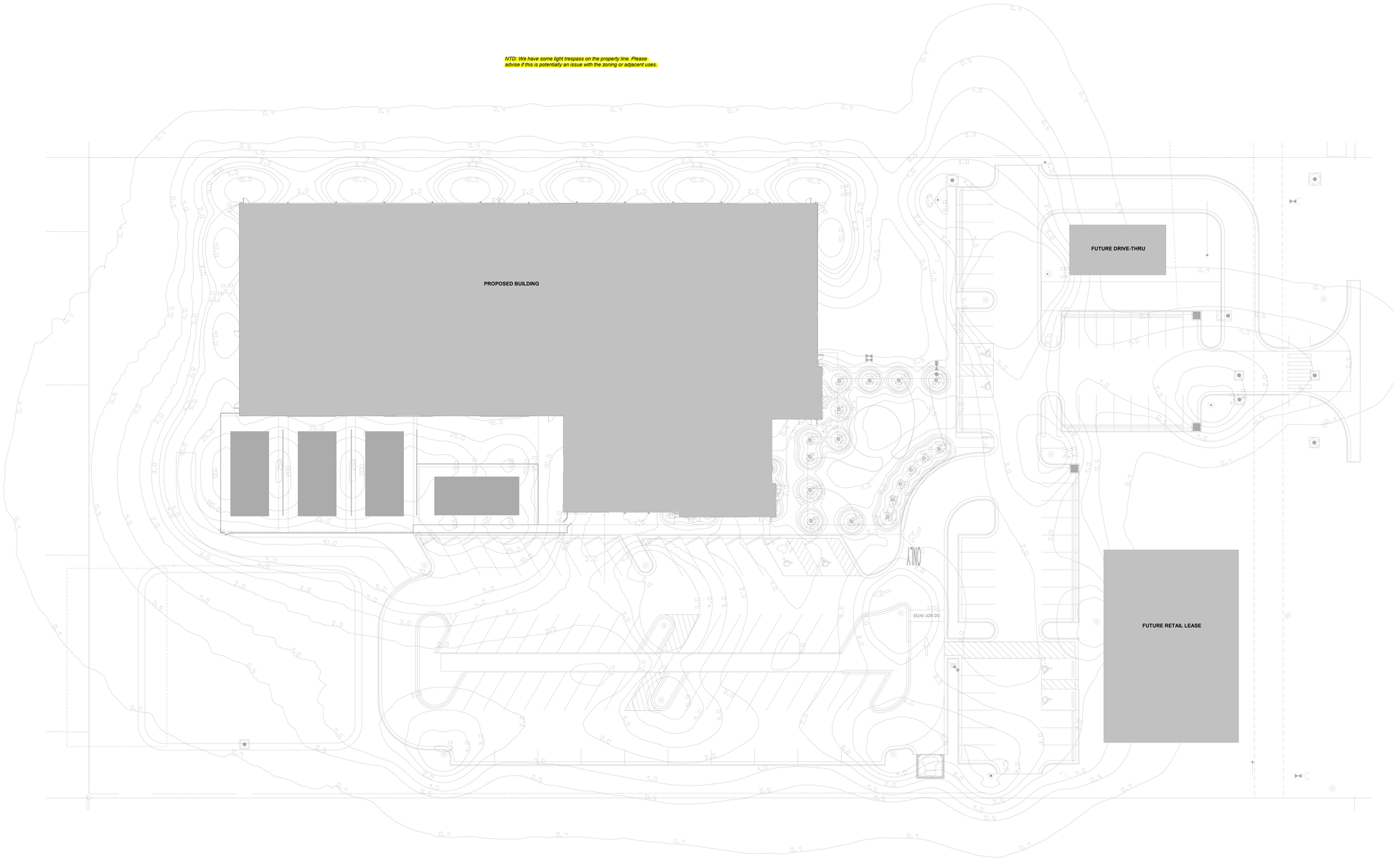
SHEET TITLE:
ELECTRICAL SCHEDULES & RISER

E6.1

DESIGN DEVELOPMENT NOTE: THIS DRAWING REPRESENTS A PROGRESS PRINT AND IS INCOMPLETE AND NOT FOR CONSTRUCTION. ALL SIZES, LAYOUT, SPECIFICATIONS AND EQUIPMENT SELECTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE IN THE FINAL DRAWINGS.

ELECTRICAL DRAWINGS INCLUDE THE LAYOUT OF LIGHT FIXTURES AND ELECTRICAL DEVICES, PRELIMINARY LIGHT FIXTURE SELECTIONS, AND A PRELIMINARY RISER.

NTD: We have some light trespass on the property line. Please advise if this is potentially an issue with the zoning or adjacent uses.



1 SITE PHOTOMETRIC PLAN
1" = 20'-0"

NORTH

CLIENT:

Burris Architecture
Bentonville, AR 72712
479.936.3531

CLIENT JOB NUMBER: 25132

CONSULTANT:

FORWARD ENGINEERS
501 N 2nd St
Rogers, AR 72756
(479) 268-0268
P.O. Box 2088
Rogers, AR 72757
www.forwardeng.com

CERTIFICATE OF AUTHORIZATION
FORWARD ENGINEERS, PLLC
No. 2920
ARKANSAS

NOT FOR CONSTRUCTION
DESIGN DEVELOPMENT
02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: MTN
CHECKED BY: KNJ

SHEET TITLE:

SITE PHOTOMETRIC PLAN

E8.1

DIVISION 28 - SAFETY AND SECURITY

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SUBMITTALS

1. Prior to procurement and if required by general contractor, contractor shall submit product data for review for all equipment, including the following:
   A. Fire alarm control system equipment and shop drawings.

SECTION 283111 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

1.1 SECTION REQUIREMENTS

A. Submittals to Authorities Having Jurisdiction: In addition to distribution requirements for submittals, make an identical submittal to authorities having jurisdiction. To facilitate review, include copies of annotated Contract Drawings as needed to depict component locations.

2.1 PERFORMANCE REQUIREMENTS
A. Comply with NFPA 72.
B. UL listed and labeled.
C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 SYSTEM DESCRIPTION

A. Noncoded, addressable system, with multiplexed signal transmission, dedicated to fire-alarm service only.

2.3 FIRE-ALARM CONTROL UNIT

A. General Requirements for Fire-Alarm Control Unit: Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL.
B. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.
C. Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class B.
D. Door Controls: Door hold-open devices that are controlled by smoke detectors at doors in smoke barrier walls shall **be** connected to fire-alarm system.
E. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station if present.
F. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, and trouble signals shall be powered by 24-V dc source.
   1. Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.
G. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
H. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame.

2.4 MANUAL FIRE-ALARM BOXES

A. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38.
   1. Single-action mechanism, breaking-glass or plastic-rod type. With integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
   2. Double-action mechanism requiring two actions to initiate an alarm, breaking-glass or plastic-rod type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.

2.5 SYSTEM SMOKE DETECTORS

A. General Requirements for System Smoke Detectors: Comply with UL 268.
B. Photoelectric Smoke Detectors: Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.

2.6 NONSYSTEM SMOKE DETECTORS

A. Single-Station Smoke Detectors: Comply with UL 217 and UL 464; suitable for NFPA 101, residential occupancies; operating at 120-V ac with 9-V dc battery as the secondary power source. Provide with "low" or "missing" battery chirping-sound device.

2.7 HEAT DETECTORS

A. General Requirements for Heat Detectors: Comply with UL 521.
B. Heat Detector, Combination Type: Actuated by either a fixed temperature or a rate of rise that exceeds 15 deg F per minute unless otherwise indicated.

2.8 NOTIFICATION APPLIANCES

A. General Requirements for Notification Appliances: Connected to notification appliance signal circuits, zoned as indicated, equipped for mounting as indicated and with screw terminals for system connections.
   Sound level is typical. Show sound output ratings on Drawings if values other than the ones listed are used in complying with audibility requirements. Comply with interpretations of ADA-ABA Accessibility Guidelines by authorities having jurisdiction. See the Evaluations for discussion about audible system sound levels.
B. Horns: Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol.
C. Visible Notification Appliances: Strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch-high letters on the lens.
   1. Rated Light Output:
      a. 15/30/75/110 cd, selectable in the field.

2.9 MAGNETIC DOOR HOLDERS

A. Description: Equipped for wall or floor mounting, complete with matching doorplate.
B. Material and Finish: Match door hardware.

2.10 REMOTE ANNUNCIATOR

A. Description: Annunciator functions shall match those of fire-alarm control unit for alarm, supervisory, and trouble indications. Manual switching functions shall match those of fire-alarm control unit, including acknowledging, silencing, resetting, and testing.

2.11 ADDRESSABLE INTERFACE DEVICE

A. Description: Microelectronic monitor module, NRTL listed for use in providing a system address for alarm-initiating devices for wired applications with normally open contacts.

2.12 DIGITAL ALARM COMMUNICATOR TRANSMITTER

A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632 and be listed and labeled by an NRTL.

3.1 INSTALLATION

A. Comply with NFPA 72 for installation of fire-alarm equipment.
B. Connecting to Existing Equipment: Verify that existing fire-alarm system is operational before making changes or connections.
   1. Connect new equipment to existing control panel in existing part of the building.
   2. Connect new equipment to existing monitoring equipment at the supervising station.
   3. Expand, modify, and supplement existing control and monitoring equipment as necessary to extend existing control and monitoring functions to the new points. New components shall be capable of merging with existing configuration without degrading the performance of either system.

3.2 FIELD QUALITY CONTROL

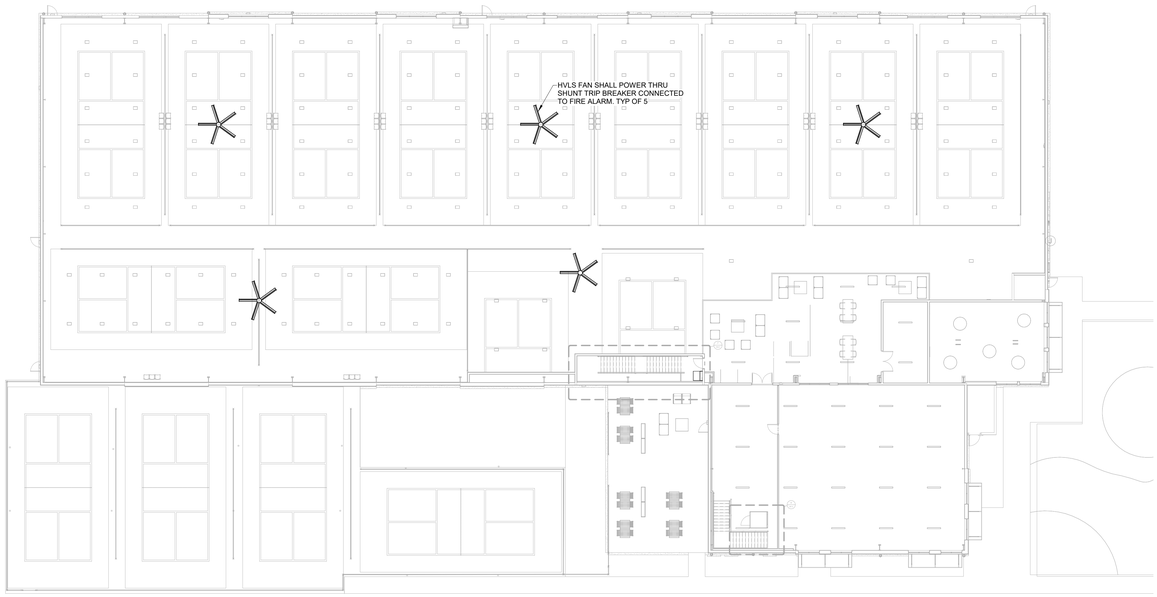
A. Provide field tests and inspections as required by authorities having jurisdiction.

GENERAL FIRE ALARM SCOPE OF WORK:

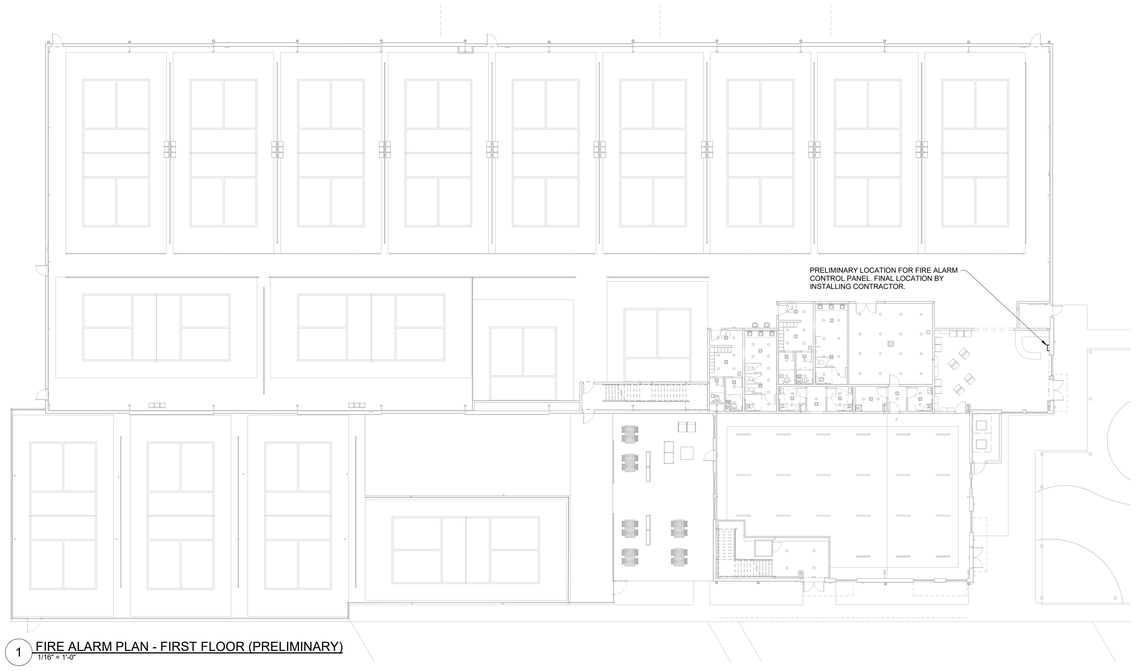
FIRE ALARM DESIGN IS DEFERRED TO INSTALLING CONTRACTOR. FIRE ALARM CONTRACTOR TO PROVIDE COMPLETE FIRE ALARM DESIGN, SELECT AND LOCATE DEVICES AND INSTALLATION. DEVICE LOCATIONS, IF SHOWN ON PLANS, ARE PRELIMINARY.

ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED 120V POWER AT LOCATION OF FIRE ALARM CONTROL PANEL. VERIFY FINAL LOCATION WITH FIRE ALARM INSTALLER. CIRCUIT SHALL BE LABELED AT PANEL WITH RED MARKER INDICATING "FIRE ALARM CIRCUIT". BREAKER SHALL BE FIRE ALARM BREAKER OR PROVIDED WITH BREAKER LOCK.

DEVICES SHALL BE LABELED WITH ADDRESS.



2 FIRE ALARM PLAN - MEZZANINE (PRELIMINARY)
1/16" = 1'-0"



1 FIRE ALARM PLAN - FIRST FLOOR (PRELIMINARY)
1/16" = 1'-0"

GENERAL FA NOTES

1. ALL WIRING SHALL BE IN COMPLIANCE WITH ARTICLE 760 OF THE ENFORCED VERSION OF THE NATIONAL ELECTRIC CODE (NFPA 70). THE NATIONAL FIRE ALARM CODE (NFPA 72), AND LOCAL BUILDING AND FIRE CODES.
2. THESE DRAWINGS AND NOTES ARE PRELIMINARY AND DO NOT CONSTITUTE A FULLY DESIGNED FIRE ALARM SYSTEM. FINAL DESIGN, DEVICE LAYOUT AND WIRING IS TO BE COMPLETED BY INSTALLING CONTRACTOR.
3. AC INPUT POWER TO THE FIRE ALARM SYSTEM POWER SUPPLY REQUIRES A DEDICATED SINGLE PHASE, 20 AMP, 120 VOLT CIRCUIT WITH GROUND. MARK THESE CIRCUITS "FIRE ALARM". REFERENCE ELECTRICAL PLANS FOR LOCATION AND CIRCUIT ASSIGNMENT. (EXISTING TO REMAIN)
4. SMOKE DETECTORS AND HEAT DETECTORS SHALL BE LOCATED AT LEAST 3' FROM AN AIR REGISTER AND AT LEAST 4" FROM THE WALL.
5. ALL VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
6. ALL WIRING TO BE LABELED.
7. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH TRADE SIZE, UNLESS NOTED OTHERWISE. EQUIPMENT ENCLOSURE TYPES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
8. THE INSTALLATION OF RACEWAYS, CABLE TRAYS OR OTHER EQUIPMENT MAY BECOME AN OBSTACLE TO OTHER TRADES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL FIRE ALARM WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
9. ALL FIREWALL & MEMBRANE PENETRATIONS SHALL BE AS PER ALL NATIONAL, STATE AND LOCAL CODES.
10. DEVICE ROUGH-IN REQUIREMENTS:
    A. MANUAL PULL STATIONS - SINGLE GANG BOX OR 4" SQUARE BOX WITH A SINGLE GANG PLASTER RING.
    B. SMOKE DETECTORS - 4" SQUARE BOX WITH ROUND PLASTER RING. USE A 2-1/8" DEEP BOX WITH AN EXTENSION RING AND NO PLASTER RING IF THE SMOKE DETECTOR HAS AN INTEGRAL AUDIBLE ALARM.
    C. HEAT DETECTORS - 4" SQUARE BOX WITH ROUND PLASTER RING.
    D. MONITOR, CONTROL, AND RELAY MODULES - 4" SQUARE BOX 2-1/8" DEEP WITH AN EXTENSION RING.
    E. MINI MONITOR MODULES - 4" SQUARE BOX WITH BLANK COVER.
    F. STROBE HORNS/CHIMES AND STROBE LIGHTS - SINGLE GANG BOX OR 4" SQUARE BOX WITH A SINGLE OR DOUBLE GANG PLASTER RING. THE PLASTER RING MAY BE DELETED FOR SURFACE MOUNT INSTALLATIONS.
    G. SPEAKERS AND SPEAKER STROBES - 4" SQUARE BOX 2-1/8" DEEP WITH AN EXTENSION RING.
    H. DOOR HOLDERS - SINGLE GANG BOX OR 4" SQUARE BOX WITH A SINGLE GANG PLASTER RING.
11. EQUIPMENT ELEVATIONS:
    A. CONTROL UNITS - 72" AFF TO TOP OF CABINET.
    B. ANNUNCIATORS - 60" AFF TO CENTERLINE OF THE CABINET.
    C. MANUAL PULL STATIONS - 42" - 48" TO THE OPERATING HANDLE OF THE DEVICE. USE SWITCH HEIGHT IF IN THESE PARAMETERS.
    D. AUDIBLE VISUAL DEVICES - 80" AFF OR 6" BELOW THE CEILING TO THE CENTERLINE OF THE OUTLET BOX WHICHEVER IS LOWER.
    E. VISUAL DEVICES - 80" AFF OR 6" BELOW THE CEILING TO THE CENTERLINE OF THE OUTLET BOX WHICHEVER IS LOWER.
    F. AUDIBLE DEVICES - 90" AFF OR 6" BELOW THE CEILING TO THE CENTERLINE OF THE OUTLET BOX WHICHEVER IS LOWER.

FIRE ALARM SYMBOLS

FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
F	FIRE ALARM PULL STATION
S	SMOKE DETECTOR
H	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
S D	DUCT MOUNTED SMOKE DETECTOR
F	FIRE ALARM VOICE EVACUATION (SPEAKER)
	HORN/STROBE (CEILING MOUNT)
	STROBE (CEILING MOUNT)
	HORN/STROBE (WALL MOUNT)
	STROBE (WALL MOUNT)

CLIENT:

Burris Architecture
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CLIENT JOB NUMBER: 25132

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CERTIFICATE OF AUTHORIZATION
FORWARD ENGINEERS, PLLC
No. 2920
ARKANSAS

NOT FOR CONSTRUCTION

DESIGN DEVELOPMENT

02/06/2026

CENTERTON PICKLEBALL

N MAIN, CENTERTON, AR 72719

ISSUE:

MARK	DATE	DESCRIPTION
		WORK IN PROGRESS

PROJECT NUMBER: 251002
DRAWN BY: MTN
CHECKED BY: KNJ

SHEET TITLE:

FIRE ALARM SPECIFICATIONS

FA0.1

DIVISION 21 - FIRE SUPPRESSION

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

SECTION 210500 - COMMON WORK RESULTS FOR FIRE SUPPRESSION

2.1 SLEEVES AND SLEEVE SEALS

A. Sleeves without Waterstop:
1. Cast-Iron Pipe Sleeves: Cast or fabricated of cast or ductile iron, with plain ends.
2. Steel Pipe Sleeves: ASTM A53/A53M, Type E, Grade B, Schedule 40, hot-dip galvanized, with plain ends.
3. Steel Sheet Sleeves: ASTM A653/A653M, 24 gauge minimum thickness; hot-dip galvanized, round tube closed with welded longitudinal joint.
4. PVC Pipe Sleeves: ASTM D1785, Schedule 40.
5. Molded-PVC Sleeves: With nailing flange.
6. Molded-PE or -PP Sleeves: Removable, tapered-cup shaped, and smooth outer surface with nailing flange.

B. Sleeves with Waterstop:
1. Description: Manufactured steel, sleeve-type, waterstop assembly made for imbedding in concrete slab or wall.

C. Stack-Sleeve Fittings:
1. Description: Manufactured, Dura-coated or Duco-coated,or galvanized cast-iron sleeve with integral clamping flange for use in waterproof floors and roofs. Include clamping ring, bolts, and nuts for membrane flashing.
a. Underdeck Clamp: Clamping ring with setscrews.

D. Sleeve-Seal Systems:
1. Description: Modular sealing-element unit, designed for field assembly, for filling annular space between piping and sleeve.
a. Hydrostatic Seal: 20 psig minimum.
b. Sealing Elements: EPDM-rubber interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size.
c. Pressure Plates: Carbon steel or Composite plastic.
d. Connecting Bolts and Nuts: Carbon steel, with ASTM B633 coating of length required to secure pressure plates to sealing elements.

E. Grout:
1. Description: Nonshrink, for interior and exterior sealing openings in non-fire-rated walls or floors.
2. Standard: ASTM C1107/C1107M, Grade B, post-hardening and volume-adjusting, dry, hydraulic-cement grout.
3. Design Mix: 5000 psi, 28-day compressive strength.
4. Packaging: Premixed and factory packaged.

2.2 ESCUTCHEONS

A. Escutcheon Types:
1. One-Piece, Steel Type: With polished, chrome-plated finish and setscrew fastener.
2. One-Piece, Stainless Steel Type: With polished stainless steel finish.
3. One-Piece, Cast-Brass Type: With polished, chrome-plated finish and setscrew fastener.
4. One-Piece, Deep-Pattern Type: Deep-drawn, box-shaped steel with polished, chrome-plated finish and spring-clip fasteners.
5. One-Piece, Stamped-Steel Type: With polished, chrome-plated finish and spring-clip fasteners.
6. Split-Plate, Stamped-Steel Type: With polished, chrome-plated finish; concealed, and, exposed-rivet hinge; and spring-clip fasteners.

B. Floor Plates:
1. Split Floor Plates: Steel with concealed hinge.

3.1 INSTALLATION OF PIPE LOOPS AND SWING CONNECTIONS

A. Install pipe loops and offsets in accordance with NFPA 13 requirements for expansion and contraction compensation.

3.2 INSTALLATION OF SLEEVES, GENERAL

A. Install sleeves for piping passing through penetrations in floors, partitions, roofs, and walls.
B. For sleeves that will have sleeve-seal system installed, select sleeves of size large enough to provide 1-inch annular clear space between piping and concrete slabs and walls. Sleeves are not required for core-drilled holes.
C. Install sleeves in concrete floors, concrete roof slabs, and concrete walls as new slabs and walls are constructed.
1. Permanent sleeves are not required for holes in slabs formed by molded-PE or -PP sleeves.
2. Cut sleeves to length for mounting flush with both surfaces.
a. Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches above finished floor level.
3. Using grout, seal space outside of sleeves in floors/slabs/walls without sleeve-seal system. Select to maintain fire-resistance of floor/slab/wall.
D. Install sleeves for pipes passing through interior partitions.
1. Cut sleeves to length for mounting flush with both surfaces.
2. Install sleeves that are large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation.
3. Seal annular space between sleeve and piping or piping insulation; use joint sealants that joint sealant manufacturer's literature indicates is appropriate for size, depth, and location of joint.
E. Fire-Resistance-Rated Penetrations, Horizontal Assembly Penetrations, and Smoke Barrier Penetrations: Maintain indicated fire or smoke rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with fire- and smoke-stop materials.

3.3 INSTALLATION OF SLEEVES WITH WATERSTOP

A. Install sleeve with waterstop as new walls and slabs are constructed.
B. Assemble fitting components of length to be flush with both surfaces of concrete slabs and walls. Position waterstop flange centered across width centered in concrete slab or wall.
C. Secure nailing flanges to wooden concrete forms.
D. Using grout, seal space around outside of sleeves.

3.4 INSTALLATION OF STACK-SLEEVE FITTINGS

A. Install stack-sleeve fittings in new slabs as slabs are constructed.
1. Secure flashing between clamping flanges for pipes penetrating floors with membrane waterproofing.
2. Install section of cast-iron soil pipe to extend sleeve to 3 inches above finished floor level.
3. Extend cast-iron sleeve fittings below floor slab as required to secure clamping ring if ring is specified.
B. Fire-Resistance-Rated Penetrations, Horizontal Assembly Penetrations, and Smoke Barrier Penetrations: Maintain indicated fire or smoke rating of floors at pipe penetrations. Seal pipe penetrations with fire- or smoke-stop materials.

3.5 INSTALLATION OF SLEEVE-SEAL SYSTEMS

A. Install sleeve-seal systems in sleeves in exterior concrete walls and slabs-on-grade at service piping entries into building, and passing through exterior walls.
B. Select type, size, and number of sealing elements required for piping material and size and for sleeve ID or hole size. Assemble sleeve-seal system components, and install in annular space between piping and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make a watertight seal.

3.6 INSTALLATION OF ESCUTCHEONS

A. Install escutcheons for piping penetrations of walls, ceilings, and finished floors.
B. Install escutcheons with ID to closely fit around pipe, tube, and insulation of piping and with OD that completely covers opening.

3.7 FIELD QUALITY CONTROL

A. Sleeves and Sleeve Seals: Perform a leak test, After allowing for a full cure, test sleeves and sleeve seals for leaks. Repair leaks and retest until no leaks exist.
B. Escutcheons: Using new materials, replace broken and damaged escutcheons and floor plates.

3.8 SLEEVES APPLICATION

A. Use sleeves and sleeve seals for the following piping-penetration applications:
1. Exterior Concrete Walls above and below Grade: Sleeves with waterstops. Select sleeve size to allow for 1-inch annular clear space between piping and sleeve for installing sleeve-seal system.
2. Concrete Slabs-on-Grade: Sleeves with waterstops. Select sleeve size to allow for 1-inch annular clear space between piping and sleeve for installing sleeve-seal system.
3. Concrete Slabs above Grade: Sleeves with waterstops, or, stack-sleeve fittings.
4. Interior Walls and Partitions: Sleeves without waterstops.

3.9 ESCUTCHEONS APPLICATION

A. Escutcheons for New Piping and Relocated Existing Piping:
1. Piping with Fitting or Sleeve Protruding from Wall: One piece, deep pattern.
2. Chrome-Plated Piping: One piece, steel, or split plate steel with polished, chrome-plated finish.
3. Insulated Piping: One piece, steel with polished, chrome-plated finish.
4. Bare Piping at Wall and Floor Penetrations in Finished Spaces: One piece, steel with polished, chrome-plated finish.
5. Bare Piping at Ceiling Penetrations in Finished Spaces:
a. One piece, steel with polished, chrome-plated finish.
b. One piece, stainless steel with polished stainless steel finish.
6. Bare Piping in Unfinished Service Spaces: One piece, steel with polished, chrome-plated finish.
7. Bare Piping in Equipment Rooms: One piece, steel with polished, chrome-plated finish.
B. Install floor plates for piping penetrations of equipment room floors.
C. Install floor plates with ID to closely fit around pipe, tube, and insulation of piping and with OD that completely covers opening.
1. New Piping and Relocated Existing Piping: One piece, floor plate.
2. Existing Piping: Split floor plate.

SECTION 211000 - WATER-BASED FIRE-SUPPRESSION SYSTEMS

1.1 DEFINITIONS

A. Standard-Pressure Fire-Suppression System Piping: Piping designed to operate at working pressure of 175 psig maximum.
B. High-Pressure Fire-Suppression System Piping: Piping designed to operate at working pressure higher than standard 175 psig, but not higher than 250 psig.

1.2 ACTION SUBMITTALS

A. Shop Drawings:
1. Prepare in accordance with NFPA 13 section "Working Plans."
a. Include plans, elevations, and sections of the system piping and details.
b. Include detailed riser diagram and schematic diagram showing system supply, supply connection, devices, valves, pipe and fittings, as well as the delineation of the standard-pressure and high-pressure portions of the fire-suppression system.
c. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
2. Submit documents and calculations prepared by NICET Level III-certified technician, "Water-Based Systems Layout."
3. Include diagrams for power, signal, and control wiring.

1.3 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For fire-suppression systems and specialties to include in emergency, operation, and maintenance manuals.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Sprinkler Cabinets: Finished, wall-mounted, steel cabinet with hinged cover, and with space for minimum of six spare sprinklers plus sprinkler wrench. Include number of sprinklers required by NFPA 13 and sprinkler wrench. Include separate cabinet with sprinklers and wrench for each type of sprinkler used on Project.
2. System control valves.

1.5 QUALITY ASSURANCE

A. Installer Qualifications:
1. Installer's responsibilities include designing, fabricating, and installing fire-suppression systems and providing professional engineering services needed to assume engineering responsibility. Base calculations on results of fire-hydrant flow test.
2. Engineering Responsibility: Preparation of working plans, calculations, and field test reports by NICET Level III-certified technician, "Water-Based Systems Layout."

1.6 FIELD CONDITIONS

A. Interruption of Existing Fire-Suppression Service: Do not interrupt fire-suppression service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary fire-suppression service in accordance with requirements indicated:
1. Notify Construction Manager no fewer than seven days in advance of proposed interruption of fire-suppression service.
2. Do not proceed with interruption of fire-suppression service without Construction Manager's written permission.

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Suppression System Components, Devices, and Accessories: Listed in UL's "Fire Protection Equipment Directory" and FM Approvals' "Approval Guide."
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
C. Fire-suppression system equipment, specialties, accessories, installation, and testing to comply with NFPA 13,or NFPA 13R as applicable to the building occupancy.
D. Standard-Pressure Piping System Component: Listed for 175 psig minimum working pressure.
E. High-Pressure Piping System Component: Listed for 250 psig minimum working pressure.
F. Delegated Design: Engage a NICET Level III-certified technician, "Water-Based Systems Layout" to design fire-suppression systems.
1. Maximum protection area per sprinkler in accordance with UL listing.
G. Obtain documented approval of fire-suppression system design from AHJs.

2.2 FIRE-SUPPRESSION PIPING, FITTINGS, AND APPURTENANCES

A. Steel Pipe, Fittings, and Appurtenances:
1. Schedule 40 Steel Pipe: black-steel pipe, ASTM A53/A53M, ASTM A135/A135M, or ASTM A795/A795M.
a. Standards: UL 852 and FM 1630.
b. Factory-applied exterior coating.
c. Factory-applied bacterial-resistant internal coating to reduce microbiologically influenced corrosion.
d. Pipe ends may be factory or field formed to match joining method.
2. Schedule 10 Steel Pipe: black-steel pipe, ASTM A53/A53M, ASTM A135/A135M, or ASTM A795/A795M.
a. Standards: UL 852 and FM 1630.
b. Factory-applied exterior coating.
c. Factory-applied bacterial resistant internal coating to reduce microbiologically influenced corrosion.
d. Pipe ends may be factory or field formed to match joining method.
3. Steel Pipe Nipples: black steel, ASTM A733, made of ASTM A53/A53M, standard-weight, seamless steel pipe with threaded ends.
4. Steel Couplings: Galvanized, and, uncoated steel, ASTM A865/A865M, threaded.
5. Gray-Iron Threaded Fittings: Galvanized, and, uncoated gray-iron threaded fittings, ASME B16.4, Class 125, standard pattern.
6. Malleable- or Ductile-Iron Unions: ASME B16.3.
7. Cast-Iron Flanges: ASME B16.1, Class 125.
8. Steel Flanges and Flanged Fittings: ASME B16.5, Class 150.
a. Pipe-Flange Gasket Materials: AWWA C110, rubber, flat face, 1/8 inch thick, ASME B16.21, nonmetallic and asbestos free, or, EPDM rubber gasket.
• Class 125 and Class 250, Cast-Iron, Flat-Face Flanges: Full-face gaskets.
• Class 150 and Class 300, Ductile-Iron or -Steel, Raised-Face Flanges: Ring-type gaskets.
b. Metal, Pipe-Flange Bolts and Nuts: ASME B18.2.1 carbon steel unless otherwise indicated.
9. Steel Welding Fittings: ASTM A234/A234M and ASME B16.9.
a. Welding Filler Metals: Comply with AWS D10.12M/D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
10. Grooved-Joint, Steel-Pipe Appurtenances:
a. Pressure Rating: 175 psig minimum.
b. Grooved-End Fittings for Steel Piping: Painted grooved-end fittings, ASTM A47/A47M, malleable-iron casting or ASTM A536, ductile-iron casting, with dimensions matching steel pipe.
c. Grooved-End-Pipe Couplings for Steel Piping: AWWA C606 and UL 213 rigid pattern, unless otherwise indicated, for steel-pipe dimensions. Include ferrous housing sections, EPDM-rubber gasket, and bolts and nuts.
11. Carbon Steel Pressure-Seal Fittings: UL 213, FM Approvals-approved, 175 psig pressure rating with carbon steel-, zinc-nickel-coated housing, EDPM O-rings, and pipe stop; for use with fitting manufacturers' pressure-seal tools.
B. CPVC Pipe, Fittings, and Appurtenances:
1. CPVC Pipe: ASTM F442/F442M and UL 1821, SDR 13.5, for 175 psig rated pressure at 150 deg F, with plain ends. Include "LISTED" and "CPVC SPRINKLER PIPE" markings.
2. CPVC Fittings: UL listed, or, FM Approvals approved, for 175 psig rated pressure at 150 deg F, socket type. Include "LISTED" and "CPVC SPRINKLER FITTING" markings.
a. NPS 3/4 to NPS 1-1/2 (DN 20 to DN 40): ASTM F438 and UL 1821, Schedule 40, socket type.
b. NPS 2 to NPS 3 (DN 50 to DN 80): ASTM F439 and UL 1821, Schedule 80, socket type.
c. CPVC-to-Metal Transition Fittings: CPVC, one piece, with dimensions equivalent to pipe; one end with threaded brass insert, and one socket end.
d. CPVC-to-Metal Transition Unions: CPVC, with dimensions equivalent to pipe; one end with threaded brass insert, and one socket end.
e. Flanges: CPVC, one or two pieces.
3. Solvent Cements for Joining CPVC Piping and Tubing: ASTM F493 solvent cement recommended by pipe and fitting manufacturer, and made for joining CPVC sprinkler pipe and fittings. Include cleaner or primer recommended by pipe and fitting manufacturer.
4. Plastic Pipe-Flange Gasket and Bolts and Nuts: Type and material recommended by piping system manufacturer unless otherwise indicated.

2.3 FIRE DEPARTMENT CONNECTIONS

A. Fire Department Connection, Exposed Type:
1. Standard: UL 405.
2. Description: Exposed, projecting, for wall mounting.
3. Pressure Rating: 175 psig minimum.
4. Body Material: Corrosion-resistant metal.
5. Inlets: Brass with threads in accordance with NFPA 1963 and matching local fire department sizes and threads. Include extension pipe nipples, brass lugged swivel connections, and check devices or clappers.
6. Caps: Brass, lugged type, with gasket and chain.
7. Escutcheon Plate: Round, brass, wall type.
8. Outlet: Back, with pipe threads.
9. Number of Inlets: Two.
10. Escutcheon Plate Marking: "AUTO SPKR".
11. Finish: Rough brass or bronze.
12. Outlet Size: NPS 4 to be verified with AHJ.
B. Fire Department Connection, Flush Type:
1. Standard: UL 405.
2. Description: Flush, for wall mounting.
3. Pressure Rating: 175 psig minimum.
4. Body Material: Corrosion-resistant metal.
5. Inlets: Brass with threads in accordance with NFPA 1963 and matching local fire department sizes and threads. Include extension pipe nipples, brass lugged swivel connections, and check devices or clappers.
6. Caps: Brass, lugged type, with gasket and chain.
7. Escutcheon Plate: Rectangular, brass, wall type.
8. Outlet: With pipe threads.
9. Body Style: Horizontalor as required by AHJ.
10. Number of Inlets: Two or as required by AHJ.
11. Outlet Location: Back or as required by AHJ.
12. Escutcheon Plate Marking: "AUTO SPKR".
13. Finish: Rough brass or bronze.
14. Outlet Size: NPS 4 or as required by AHJ.
C. Fire Department Connection, Yard Type:
1. Standard: UL 405.
2. Description: Exposed, freestanding.
3. Pressure Rating: 175 psig minimum.
4. Body Material: Corrosion-resistant metal.
5. Inlets: Brass with threads in accordance with NFPA 1963 and matching local fire department sizes and threads. Include extension pipe nipples, brass lugged swivel connections, and check devices or clappers.
6. Caps: Brass, lugged type, with gasket and chain.
7. Escutcheon Plate: Round, brass, floor type.
8. Outlet: Bottom, with pipe threads.
9. Number of Inlets: Two or as required by AHJ.
10. Sleeve: Brass.
11. Sleeve Height: 18 inches.
12. Escutcheon Plate Marking: "AUTO SPKR".
13. Finish, Including Sleeve: Rough brass or bronze.
14. Outlet Size: NPS 4 or as required by AHJ.

2.4 SYSTEM CONTROL VALVES

A. Listed in UL's "Fire Protection Equipment Directory" or FM Approvals' "Approval Guide."
B. Pressure Rating:
1. Standard-Pressure Piping Valves: 175 psig minimum.
2. High-Pressure Piping Valves: 250 psig minimum.
C. Body Material: Cast or ductile iron.
D. Size: Same as connected piping.
E. End Connections: Flanged or grooved.
F. System Control Valve, Dry-Pipe Valve:
1. Standards: UL 260 and UL 1486.
2. Design: Differential-pressure type.
3. Include quick-opening devices, trim sets for air supply, drain, priming level, alarm connections, ball drip valves, pressure gauges, priming chamber attachment, and fill-line attachment.
4. Air Compressor for Dry-Pipe Valve:
a. Motor Horsepower: Fractional.
b. Power: 120 V ac, 60 Hz, single phase.
c. Sized for application and capable of achieving system supervisory pressure within 30 minutes in accordance with requirements of NFPA standards. Provide ASME air receiver tank as required to meet requirements on larger systems.
d. Include filters, relief valves, coolers, automatic drains, and gauges.

2.5 FIRE-SUPPRESSION PIPING SPECIALTIES

A. Branch Outlet Fittings:
1. Standard: UL 213.
2. Pressure Rating: 175 psig minimum.
3. Body Material: Ductile-iron housing with EPDM seals and bolts and nuts.
4. Type: Mechanical-tee and -cross fittings.
5. Configurations: Snap-on and strapless, ductile-iron housing with branch outlets.
6. Size: Of dimension to fit onto sprinkler main and with outlet connections as required to match connected branch piping.
7. Branch Outlets: Grooved, plain-end pipe, or threaded.
B. Flow Detection and Test Assemblies:
1. Standard: UL's "Fire Protection Equipment Directory" or FM Approvals' "Approval Guide."
2. Pressure Rating: 175 psig minimum.
3. Body Material: Cast- or ductile-iron housing with orifice, sight glass, and integral test valve.
4. Size: Same as connected piping.
5. Inlet and Outlet: Threaded or grooved.
C. Sprinkler Inspector's Test Fittings:
1. Standard: UL's "Fire Protection Equipment Directory" or FM Approvals' "Approval Guide."
2. Pressure Rating: 175 psig minimum.
3. Body Material: Cast- or ductile-iron housing with sight glass.
4. Size: Same as connected piping.
5. Inlet and Outlet: Threaded.
D. Flexible Sprinkler Hose Fittings:
1. Standards: UL 2443 and FM 1637.
2. Description: Flexible hose for connection to sprinkler, and with bracket for connection to ceiling grid.
3. Pressure Rating: 175 psig minimum.
4. Size: Same as connected piping, for sprinkler.
E. Automatic Air Vent:
1. Description: Automatic air vent that automatically vents trapped air without human intervention. Approved for use in wet-pipe fire-suppression system.
2. Vents oxygen continuously from system.
3. Float valve to prevent water discharge.
4. Minimum Water Working Pressure Rating: 175 psig.

2.6 SPRINKLERS

A. Standards:
1. UL 199.
2. UL 1767.
3. UL 1626.
4. FM 2000.
5. FM 2008.
6. FM 2030.
B. Listed in UL's "Fire Protection Equipment Directory" or FM Approvals' "Approval Guide."
C. Pressure Rating for Sprinklers: Standard Automatic Sprinklers: 175 psig minimum.
D. Sprinklers, Automatic Wet with Heat-Responsive Element:
1. Characteristics: Nominal 1/2-inch orifice with Discharge Coefficient K of 5.6, and for "Ordinary" temperature classification rating unless otherwise indicated or required by application.
2. Standard Spray, Standard Response:
a. Upright.
b. Pendent.
c. Recessed pendent.
d. Flat, concealed pendent.
e. Vertical sidewall.
f. Horizontal sidewall.
3. Standard Spray, Quick Response:
a. Upright.
b. Pendent.
c. Recessed pendent.
d. Flat, concealed pendent.
e. Vertical sidewall.
f. Horizontal sidewall.
g. Flat, concealed horizontal sidewall.
4. Extended Coverage:
a. Upright.
b. Pendent.
c. Flat, concealed pendent.
d. Horizontal sidewall.
e. Flat, concealed horizontal sidewall.
5. Residential:
a. Recessed pendent.
b. Flat, concealed pendent.
c. Flat, concealed horizontal sidewall.
E. Sprinklers, Automatic Dry with Heat-Responsive Element:
1. Standard Spray, Standard Response:
a. Upright.
b. Pendent.
c. Recessed pendent.
d. Flat, concealed pendent.
e. Horizontal sidewall.
2. Standard Spray, Quick Response:
a. Upright.
b. Pendent.
c. Recessed pendent.
d. Flat, Concealed pendent.
e. Horizontal sidewall.
f. Flat, concealed horizontal sidewall.
F. Special Sprinklers:
1. Attic.
2. Combustible, concealed.
3. ESFR.
4. Flat spray.
5. Hallway.
6. Institutional.
7. MRI/Non-Ferrous, concealed.
8. Window.
G. Open Sprinklers and Nozzles:
1. Nominal Orifice:
a. 1/2 inch, with discharge coefficient K between 5.3 and 5.8.
b. 17/32 inch with discharge coefficient K between 7.4 and 8.2.
H. Sprinkler Finishes: Chrome plated to be verified with Architect.
I. Sprinkler Escutcheons: Materials, types, and finishes for the following sprinkler mounting applications. Escutcheons for concealed, flush, and recessed-type sprinklers are specified with sprinklers.
1. Ceiling Mounting: Plastic, white finish, two piece, flat.
2. Sidewall Mounting: Plastic, white finish, two piece, flat.
J. Sprinkler Guards and Water Shields:
1. Standard: UL 199.
2. Description: Wire cage with fastening device for attaching to sprinkler.

2.7 ALARM DEVICES

A. Match alarm-device material and connection types to piping and equipment materials and connection types.
B. Electrically Operated Notification Appliances:
1. Electric Bell:
a. Standard: UL 464.
b. Type: Vibrating, metal alarm bell.
c. Size: 6-inch minimum- diameter.
d. Voltage: 120 V ac, 60 Hz, single phase, or24 V dc.
e. Finish: Red-enamel or polyester powder-coat factory finish, suitable for outdoor use with approved and listed weatherproof backbox.
2. Strobe/Horn:
a. Standard: UL 464.
b. Tone: Selectable, steady, Temporal-3 (T-3) in accordance with ISO 8201 and ANSI/ASA S3.41, 2400 Hz, electromechanical, broadband.
c. Voltage: 120 V ac, 60 Hz.
d. Effective Intensity: 110 cd.
e. Finish: Red, suitable for outdoor use with approved and listed weatherproof backbox. White letters on housing identifying device as for "Fire."
C. Water-Flow Indicators:
1. Standard: UL 346.
2. Water-Flow Detector: Electrically supervised.
3. Components: Two single-pole, double-throw circuit switches for isolated alarm and auxiliary contacts, 7 A, 125 V ac and 0.25 A, 24 V dc; complete with factory-set, field-adjustable retard element to prevent false signals and tamperproof cover that sends signal if removed.
4. Type: Paddle operated.
5. Pressure Rating: 250 psig.
6. Design Installation: Horizontal or vertical.
D. Pressure Switches - Water-Flow Alarm Detection:
1. Description: Electrically supervised, pressure-activated water-flow switch with retard feature.
2. Components: Two single-pole, double-throw switches with normally closed contacts.
3. Design Operation: Rising pressure to 6 psi, plus or minus 2 psi signals water flow.
4. Adjustability: Each switch is to be independently adjustable.
5. Wire Separation: Pressure switch to provide for separation of wiring to each switch connection to allow for low- and high-voltage connections to comply with NFPA 70, Article 760 requirements.
E. Valve Supervisory Switches:
1. Standard: UL 346.
2. Type: Electrically supervised.
3. Design: Signals that controlled valve is in other than fully open position.
4. Wire Terminal Designations: Indicates normal switch position when switch is properly installed on valve and valve is fully open.
5. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
6. OS&Y Valve Supervisory Switches:
a. One or two single-pole, double-throw switches.
b. NEMA Rating: NEMA 4 and NEMA 6P enclosures suitable for mounting in any position indoors or outdoors.
c. Visual Switch Indication: Indicates device is properly installed and OS&Y valve is fully open.
d. Mounting Hardware: Mounting bracket to grip valve yoke and prevent movement of switch assembly on OS&Y valve.
e. Trip Rod Length: Adjustable
7. Butterfly Valve Supervisory Switches:
a. Two single-pole, double-throw switches.
b. NEMA Rating: NEMA 4 and NEMA 6P enclosures suitable for mounting in any position indoors or outdoors.
c. Mounting Hardware: Removable nipple.
d. Trip Rod Length: Adjustable
8. Ball Valve Supervisory Switches:
a. One single-pole, double-throw switch.
b. NEMA Rating: NEMA 4 enclosure suitable for mounting in any position indoors or outdoors.
c. Mounting Hardware: Suitable for mounting directly to pipe, ball valves, or backflow preventers sized from up to NPS 2.

2.8 PRESSURE GAUGES

A. Standard: UL 393.
B. Dial Size: 3-1/2- to 4-1/2-inch diameter.
C. Pressure Gauge Range: 0 to 300 psig.
D. Water System Piping Gauge: Include "WATER" label on dial face.

3.1 PREPARATION

A. Perform fire-hydrant flow test. Use results for system design calculations required in "Quality Assurance" Article.
1. Flow test is to be performed to meet the criteria established by NFPA 13, and, NFPA 14.
2. Flow test is to be conducted in accordance with NFPA 291.
3. Test is to be performed during a period of ordinary demand for the water system.
a. To obtain satisfactory test results of expected flow or rated capacities, sufficient discharge should be achieved to cause drop of at least 10 percent.
4. Pitot readings are to be taken at the 2-1/2-inch orifice connection.
5. The pitot reading is to range from 10 to 35 psig.
6. Open additional hydrant outlets as needed to control pitot readings.
7. The pitot pressure and corresponding residual pressure readings are to be taken consecutively as pressure fluctuates between a high number and low number.
B. Flow Test Data Written Report:
1. Flow data report is to be written in accordance with NFPA 291.
2. Flow data report is to include a copy of all flow data recorded during the test, including a site plan showing the tested fire hydrants with respect to the fire water service to the building. Site plan is to indicate which hydrant was flowed and which hydrant was used for pressure reading. Provide date of test, name of testing agency, and name of individual performing test.
C. Water Supply Curve: Provide water supply curve based on the lowest supply for a given set of test data. For a given residual pressure reading, the supply is to be graphed utilizing the corresponding pitot pressure/flow reading and static pressure reading.
D. Documentation is to include calibration certifications for gauges used in the flow tests. The certifications are to be from within the previous six (6) months from a reputable agency recognized for certifying pressure gauges.
E. Report flow test results promptly and in writing. A copy of the flow test data report is to be submitted with the hydraulic calculations.

3.2 INSTALLATION OF FIRE-SUPPRESSION PIPING

A. Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and arrangement of piping. Install piping as indicated on approved working plans.
1. Deviations from approved working plans for piping require written approval from AHJs. File written approval with Architect before deviating from approved working plans.
2. Coordinate layout and installation of sprinklers with other construction that penetrates ceilings, including light fixtures, HVAC equipment, and partition assemblies.
B. Piping Standard: Comply with NFPA 13, and, NFPA 14 requirements for installation of fire-suppression piping.
C. Install listed fittings to make changes in direction, branch takeoffs from mains, and reductions in pipe sizes.
D. Install unions adjacent to each valve in pipes NPS 2 and smaller.
E. Install flanges, flange adapters, or couplings for grooved-end piping on valves, apparatus, and equipment having NPS 2-1/2 and larger end connections.
F. Install inspector's test connections in sprinkler system piping, complete with shutoff valve, and sized and located in accordance with NFPA 13.
G. Install fire-suppression system piping with drains for complete system drainage. Extend drain piping to exterior of building where possible.
H. Install sprinkler control valves, test assemblies, and drain risers adjacent to standpipes when sprinkler piping is connected to standpipes.
I. Install automatic (ball drip) drain valve at each check valve for fire department connection, to drain piping between fire department connection and check valve. Install drain piping to and spill over floor drain or to exterior of building.
J. Install alarm devices in piping systems.
K. Install hangers and supports for fire-suppression piping in accordance with NFPA standards. Comply with requirements for hanger materials in NFPA standards.
L. Install pressure gauges on riser or feed main, at each sprinkler test connection, and at top of each standpipe/sprinkler supply. Include pressure gauges with connection not less than NPS 1/4 and with soft-metal seated globe valve, arranged for draining pipe between gauge and valve. Install gauges to permit removal, and install where they are not subject to freezing.
M. Pressurize and check dry-pipe standpipe or sprinkler system piping and air compressors.
N. Fill wet-type fire-suppression system piping with water.
O. Install sleeves for piping penetrations of walls, ceilings, and floors. "
P. Install sleeve seals for piping penetrations of concrete walls and slabs.
Q. Install escutcheons for piping penetrations of walls, ceilings, and floors.

3.3 INSTALLATION OF PIPING JOINTS

A. Install couplings, flanges, flanged fittings, unions, nipples, and transition and special fittings that have finish and pressure ratings same as or higher than system's pressure rating for aboveground applications unless otherwise indicated.
B. Install unions adjacent to each valve in pipes NPS 2 and smaller.
C. Install flanges, flange adapters, or couplings for grooved-end piping on valves, apparatus, and equipment having NPS 2-1/2 and larger end connections.
D. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
E. Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly.
F. Threaded Joints: Thread pipe with tapered pipe threads in accordance with ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
1. Apply appropriate tape or thread compound to external pipe threads.
2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged.
G. Steel-Piping, Pressure-Sealed Joints: Join steel pipe and steel pressure-seal fittings with tools recommended by fitting manufacturer.
H. Welded Joints: Construct joints in accordance with AWS D10.12M/D10.12, using qualified processes and welding operators in accordance with "Quality Assurance" Article.
1. Shop weld pipe joints where welded piping is indicated. Do not use welded joints for galvanized-steel pipe.
I. Steel-Piping, Cut-Grooved Joints: Cut square-edge groove in end of pipe in accordance with AWWA C606. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings in accordance with AWWA C606 for steel-pipe joints.
J. Steel-Piping, Roll-Grooved Joints: Roll rounded-edge groove in end of pipe in accordance with AWWA C606. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings in accordance with AWWA C606 for steel-pipe grooved joints.
K. Dissimilar-Material Piping Joints: Make joints using adapters compatible with materials of both piping systems.
L. Plastic-Piping, Solvent-Cement Joints: Clean and dry joining surfaces. Join pipe and fittings in accordance with the following:
1. Comply with ASTM F402 for safe-handling practice of cleaners, primers, and solvent cements. Apply primer.
2. CPVC Piping: Join in accordance with ASTM D2846/D2846M Appendix.

3.4 INSTALLATION OF FIRE DEPARTMENT CONNECTIONS

A. Install wall-type fire department connections.
B. Install yard-type fire department connections in concrete slab support.
C. Install two protective pipe bollards on sides of each fire department connection.
D. Install automatic (ball-drip) drain valve at each check valve for fire department connection.

3.5 INSTALLATION OF COVER SYSTEM FOR SPRINKLER PIPING

A. Install cover system, brackets, and cover components for sprinkler piping in accordance with manufacturer's installation manual and in accordance with NFPA 13 or NFPA 13R for supports.

3.6 INSTALLATION OF VALVES AND SPECIALTIES

A. Install listed fire-suppression system control valves, trim and drain valves, specialty valves and trim, controls, and specialties in accordance with manufacturer's installation instructions, NFPA standards, and AHJ.
B. Install listed fire-suppression system shutoff valves in supervised open position, located to control sources of water supply except from fire department connections. Install permanent identification signs indicating portion of system controlled by each valve.
C. System Control Valves: Install dry-pipe valves with trim sets for air supply, drain, priming level, alarm connections, ball-drip valves, pressure gauges, priming chamber attachment, and fill-line attachment. Install air compressor and compressed-air-supply piping.
D. Air Vent:
1. Provide at least one air vent at high point in each wet-pipe fire-suppression system in accordance with NFPA standards. Connect vent into top of fire-suppression piping.
2. Provide dielectric union for dissimilar metals, ball valve, and strainer upstream of automatic air vent.
3. Pipe from outlet of air vent to drain.

3.7 INSTALLATION OF SPRINKLERS

A. Install sprinklers in suspended ceilings symmetrically in center of narrow dimension of acoustical ceiling panels within tolerance of 1/2 inch. Coordinate entire pattern of sprinkler locations with approved reflected ceiling plan.
B. Install dry-type sprinklers with water supply from heated space. Do not install pendent or sidewall, wet-type sprinklers in areas subject to freezing.
C. Install sprinklers into flexible, sprinkler hose fittings, and install hose into bracket on ceiling grid.

3.8 FIELD QUALITY CONTROL

A. Perform tests and inspections.
B. Perform the following tests and inspections:
1. Leak Test: After installation, charge systems and test for leaks. Repair leaks and retest until no leaks exist.
2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
3. Flush, test, and inspect fire-suppression systems in accordance with NFPA standards.
4. Energize circuits to electrical equipment and devices.
5. Start and run air compressors.
6. Coordinate with fire-alarm tests. Operate as required.
7. Coordinate with fire-pump tests. Operate as required.
8. Verify that equipment hose threads are same as local fire department equipment.
9. Verify that sprinklers original factory finish has not been contaminated with dirt, debris, or paint. Sprinklers containing other-than-original factory finish are to be considered defective and replaced with new products. Repair and/or cleaning is not acceptable.
C. Fire-suppression piping system components considered defective during testing will be replaced with new components. Repair of defective components is not acceptable.
D. Prepare test and inspection reports.

3.9 CLEANING

A. Clean dirt and debris from fire-suppression system piping, system control valves, sprinklers, and associated components.
B. Only sprinklers with their original factory finish are acceptable. Remove and replace any sprinklers that are painted or have any other finish than their original factory finish.

3.10 DEMONSTRATION

A. Train Owner's maintenance personnel to adjust, operate, and maintain system control valves, and, pressure-maintenance pumps, as applicable.

3.11 PIPING SCHEDULE

A. Piping between Fire Department Connections and Check Valves: Galvanized, standard-weight steel pipe with grooved ends, grooved-end fittings, grooved-end-pipe couplings, and grooved joints.
B. Sprinkler specialty fittings may be used, downstream of control valves, instead of specified fittings.
C. CPVC pipe, Schedule 40, or Schedule 80 CPVC fittings, and solvent-cemented joints may be used for light-hazard and residential occupancies.
D. Standard-Pressure, Wet-Pipe Sprinkler System, NPS 2 (DN 50) and Smaller, to Be One of the Following:
1. Schedule 40, black-steel pipe with threaded ends; uncoated, gray-iron threaded fittings; and threaded