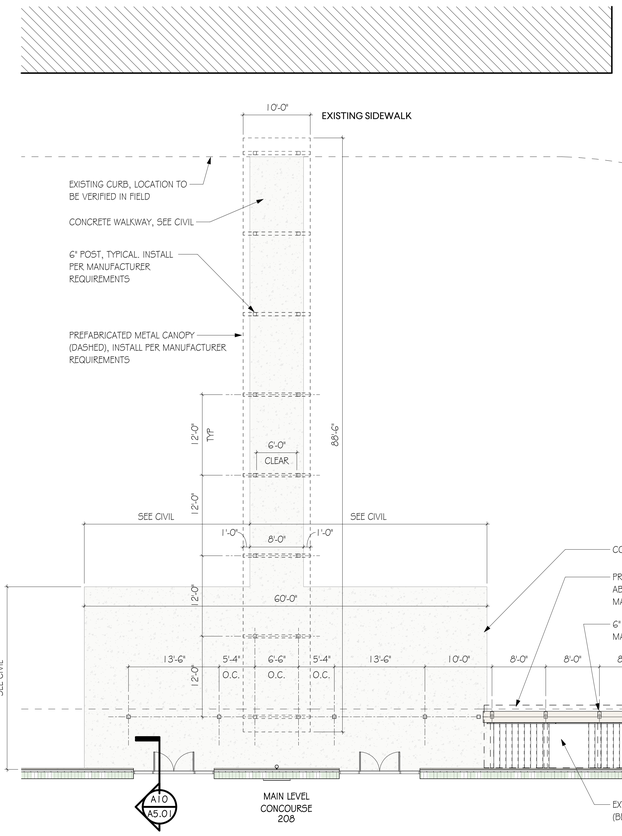
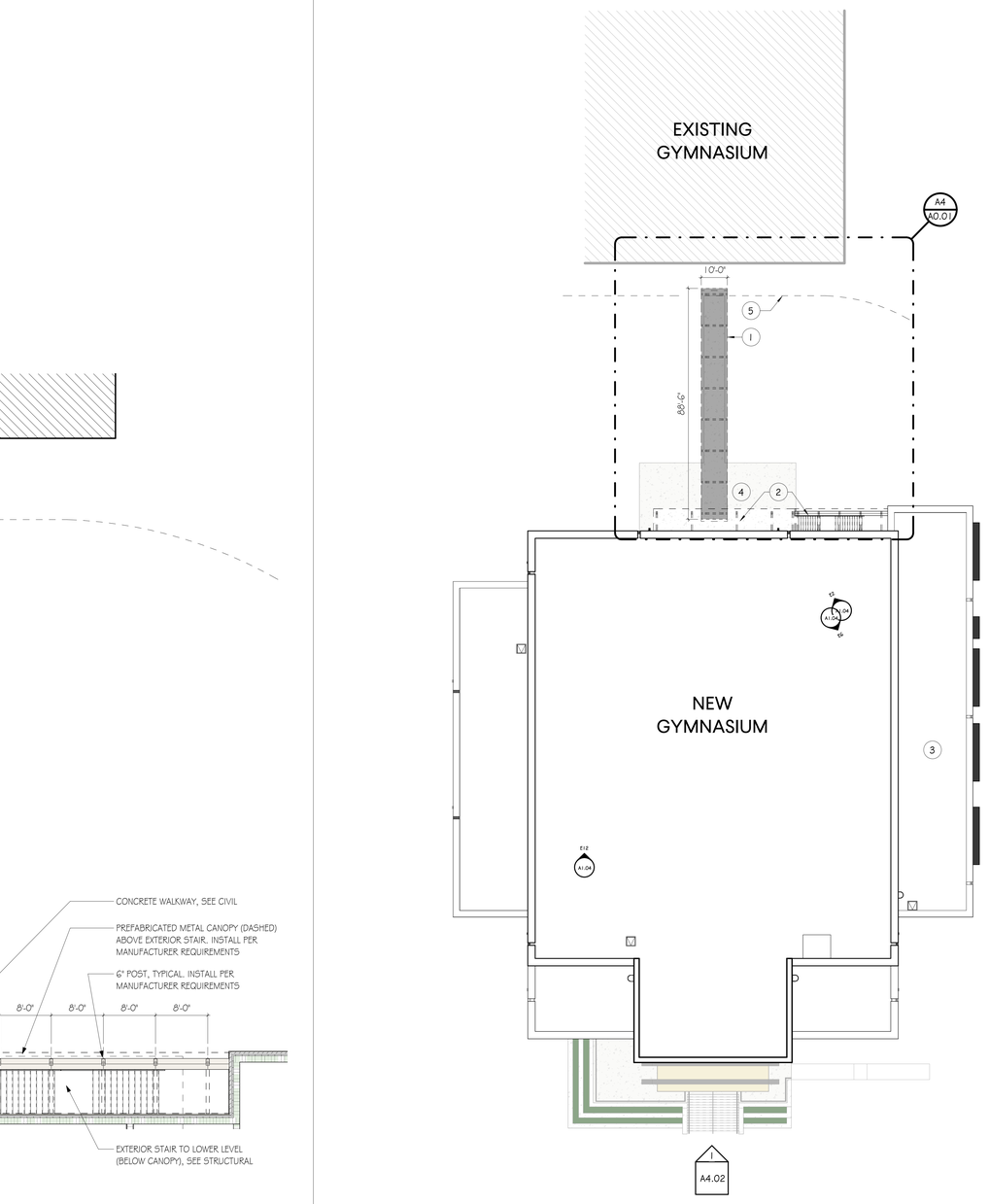


PLAN NORTH

TRUE NORTH

A4 NEW METAL CANOPY AT REAR

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



PLAN NORTH

TRUE NORTH

A8 OVERALL PLAN

SCALE: 1" = 20'-0"

OVERALL PLAN - KEY NOTES

1. NEW METAL CANOPY CONNECTING TO EXISTING GYM. NEW CANOPY TO EXTEND MIN. 12" BELOW CANOPY AT EXISTING GYM AND NEW PREFABRICATED CANOPY AT NEW BUILDING. PROVIDE DOWNSPOUTS w/ CAST IRON BOOT AT EACH COLUMN. SECURED DOWNSPOUTS TO CANOPY COLUMNS. DOWNSPOUTS TO MATCH FINISH COLOR OF CANOPY, TYPICAL. COORDINATE DOWNSPOUT LOCATIONS w/ CIVIL AND TIE INTO SUB-GRADE STORM DRAIN.
2. NEW PREFABRICATED METAL CANOPY. SEE WALL SECTIONS
3. ROOF TOP UNIT. SEE MECHANICAL
4. NEW WALKWAY. SEE CIVIL
5. LINE REPRESENTING EXISTING SIDEWALK AND CURB

OVERALL PLAN - GENERAL NOTES

- SEE CIVIL DRAWINGS FOR COORDINATION OF SITE RELATED ITEMS AND EXTENTS OF NEW AND/OR EXISTING WALKWAYS, CURBS AND/OR PAVED SURFACES. OVERALL PLAN SHOWN FOR REPRESENTATIONAL PURPOSES ONLY.

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DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: Author
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STATE of ALABAMA
Jay W Purkey
9063
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REGISTERED ARCHITECT

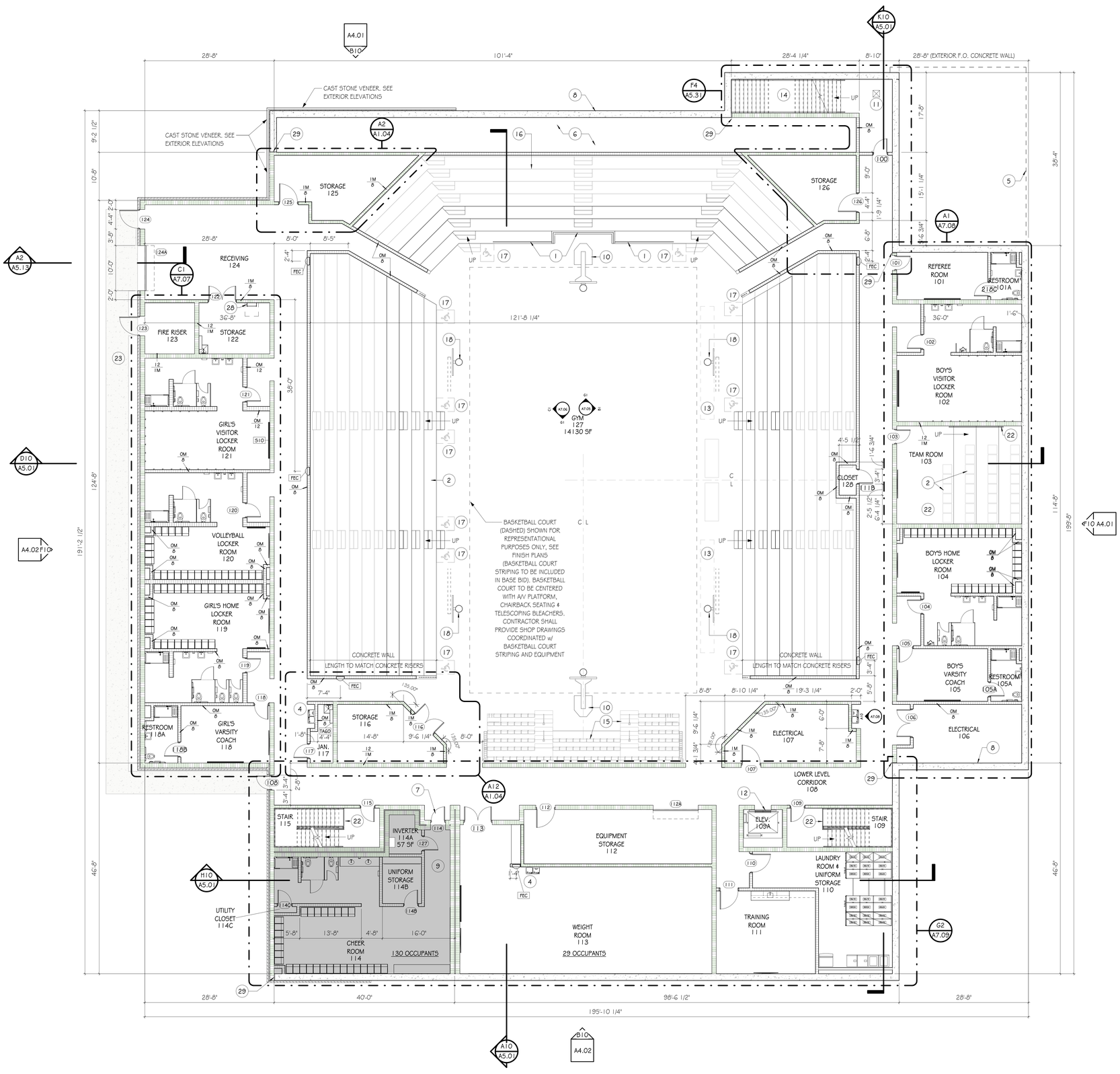
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

OVERALL PLAN

A0.01

11/13/2024 11:49:28 AM TEMPLATE VERSION: 2022.1



PLAN NORTH

TRUE NORTH

A6 FLOOR PLAN - LOWER LEVEL

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

GENERAL NOTES - FLOOR PLAN

KEY NOTES - FLOOR PLAN

1 42" CABLE GUARDRAIL, SEE DETAILS

2 PRIORITY SEATING, SEE SPECIFICATIONS & SEATING PLAN

3 GLASS DISPLAY CASE, SEE SPECIFICATIONS

4 DRINKING FOUNTAIN w/ BOTTLE FILLER. COORDINATE w/ PLUMBING FOR WATER AND ELECTRICAL FOR POWER.

5 LOCATION OF EXTERIOR WALL ABOVE (DASHED)

6 4 x 4 FIRE RETARDENT PLYWOOD

7 TORNADO RESISTANT DOOR & FRAME. SEE SCHEDULE

8 CONCRETE RETAINING WALL. SEE STRUCTURAL

9 DESIGNATED STORM SHELTER (HATCHED REGION)

10 ROLLING BASKETBALL GOAL. O.F.O.I (OWNER FURNISHED OWNER INSTALLED), SEE SPECIFICATIONS

11 CATCH BASIN. SEE CIVIL

12 MACHINE ROOMLESS ELEVATOR. SEE BUILDING SECTIONS AND/OR SPEC.'S

13 TEAM SEATING AREA

14 EXTERIOR STAIR. SEE CIVIL

15 TELESCOPING BLEACHERS. SEE SEATING PLAN

16 STANDARD CHAIRBACK SEATING, SEE SEATING PLAN & SPECIFICATIONS

17 ADA DESIGNATED AISLE SEAT

18 RETRACTABLE CEILING MOUNTED BASKETBALL GOAL. O.F.C.I OWNER FURNISHED CONTRACTOR INSTALLED). SEE SPECIFICATIONS

19 50' x 94' REGULATION BASKETBALL COURT, SEE STRIPING PLAN

20 CAST-STONE WALL CAP w/ CONCRETE RETAINING WALL BELOW. SEE STRUCTURAL FOR RETAINING WALL DETAILS

21 CANOPY ABOVE. SEE EXTERIOR DETAILS

22 1 1/2" DIA. HANDRAIL. SHOP PRIMED & POWDER COATED

23 SIDEWALK, SEE CIVIL

24 AUDIO / VIDEO PLATFORM AT MAIN LEVEL. ALL COMPONENTS AND INSTALLATION BY SEATING MANUFACTURER

25 PREFINISHED METAL COPING. SEE SPECIFICATIONS

26 MECHANICAL ROOF TOP UNIT (SHOWN DASHED FOR REPRESENTATIONAL PURPOSES ONLY). SEE MECHANICAL DRAWINGS

27 SLOPED CONCRETE WALL (SEE STRUCTURAL) w/ RAILING ABOVE. RAILING COMPONENTS AND INSTALLATION BY RAILING MANUFACTURER.

28 ACCESS LADDER. SEE SPECIFICATIONS

29 EXPANSION JOINT. SEE STRUCTURAL

30 PREFABRICATED EXTRUDED ALUMINUM POST-SUPPORTED WALKWAY COVER. INSTALL PER MANUFACTURER REQUIREMENTS. SEE DETAILS

31 MECHANICAL CHASE

32 WALL MOUNTED SINK. COORDINATE w/ PLUMBING

WALL LEGEND

- INTERIOR GYPSUM ON METAL STUD
- 8" CMU
- 1-HOUR RATED 12" CMU
- CAST IN PLACE CONCRETE

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FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

FLOOR PLAN - LOWER LEVEL

A1.01

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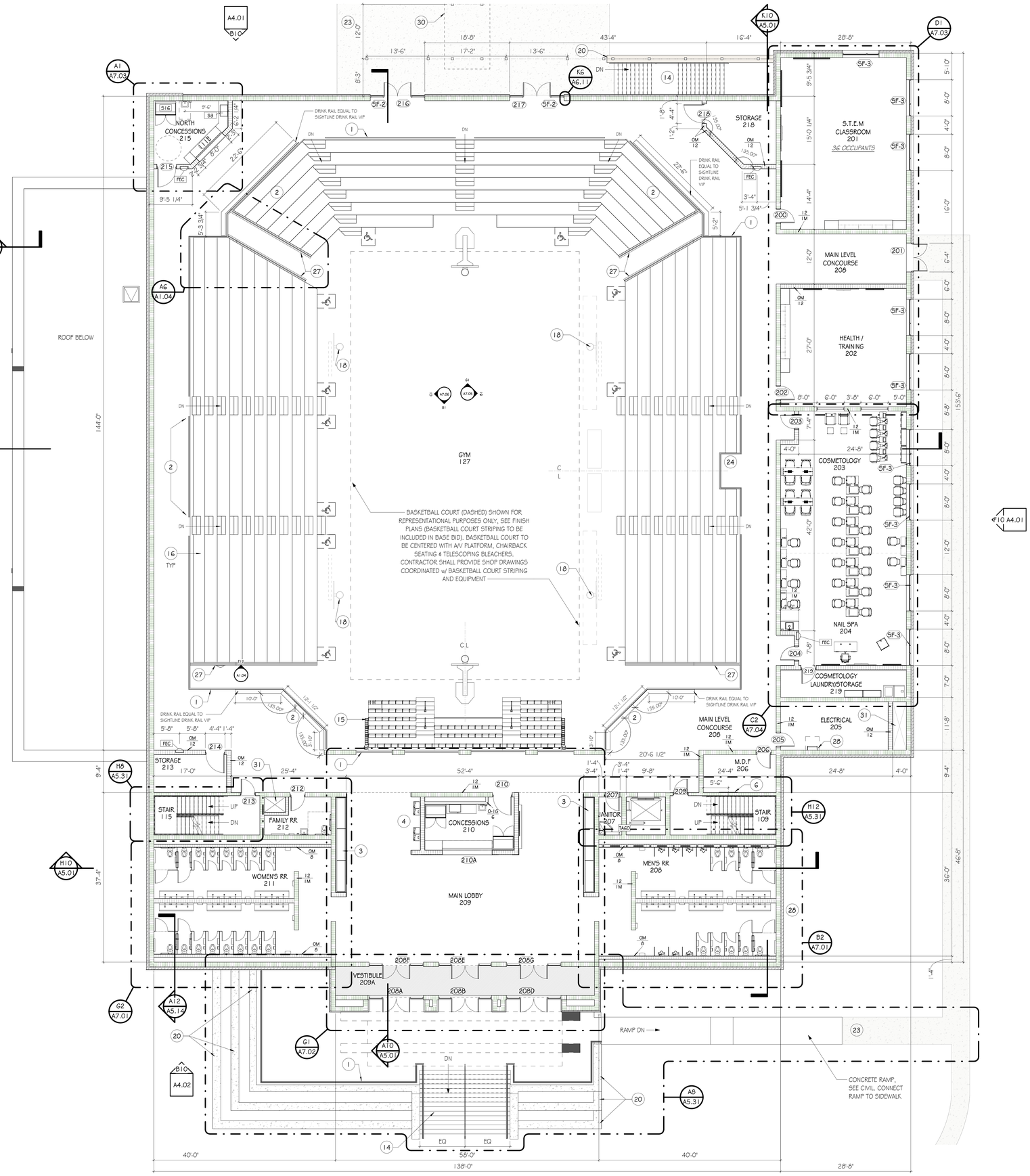

GENERAL NOTES - FLOOR PLAN

KEY NOTES - FLOOR PLAN

1. 42" CABLE GUARDRAIL, SEE DETAILS
2. PRIORITY SEATING, SEE SPECIFICATIONS & SEATING PLAN
3. GLASS DISPLAY CASE, SEE SPECIFICATIONS
4. DRINKING FOUNTAIN w/ BOTTLE FILLER. COORDINATE w/ PLUMBING FOR WATER AND ELECTRICAL FOR POWER.
5. LOCATION OF EXTERIOR WALL ABOVE (DASHED)
6. 4 x 4 FIRE RETARDENT PLYWOOD
7. TORNADO RESISTANT DOOR & FRAME. SEE SCHEDULE
8. CONCRETE RETAINING WALL. SEE STRUCTURAL
9. DESIGNATED STORM SHELTER (HATCHED REGION)
10. ROLLING BASKETBALL GOAL. O.F.O.I (OWNER FURNISHED OWNER INSTALLED), SEE SPECIFICATIONS
11. CATCH BASIN. SEE CIVIL
12. MACHINE ROOMLESS ELEVATOR. SEE BUILDING SECTIONS AND/OR SPEC.'S
13. TEAM SEATING AREA
14. EXTERIOR STAIR. SEE CIVIL
15. TELESCOPING BLEACHERS. SEE SEATING PLAN
16. STANDARD CHAIRBACK SEATING, SEE SEATING PLAN & SPECIFICATIONS
17. ADA DESIGNATED AISLE SEAT
18. RETRACTABLE CEILING MOUNTED BASKETBALL GOAL. O.F.C.I OWNER FURNISHED CONTRACTOR INSTALLED). SEE SPECIFICATIONS
19. 50' x 94' REGULATION BASKETBALL COURT, SEE STRIPING PLAN
20. CAST-STONE WALL CAP w/ CONCRETE RETAINING WALL BELOW. SEE STRUCTURAL FOR RETAINING WALL DETAILS
21. CANOPY ABOVE. SEE EXTERIOR DETAILS
22. 1 1/2" DIA. HANDRAIL. SHOP PRIMED & POWDER COATED
23. SIDEWALK, SEE CIVIL
24. AUDIO / VIDEO PLATFORM AT MAIN LEVEL. ALL COMPONENTS AND INSTALLATION BY SEATING MANUFACTURER
25. PREFINISHED METAL COPING. SEE SPECIFICATIONS
26. MECHANICAL ROOF TOP UNIT (SHOWN DASHED FOR REPRESENTATIONAL PURPOSES ONLY). SEE MECHANICAL DRAWINGS
27. SLOPED CONCRETE WALL (SEE STRUCTURAL) w/ RAILING ABOVE. RAILING COMPONENTS AND INSTALLATION BY RAILING MANUFACTURER.
28. ACCESS LADDER. SEE SPECIFICATIONS
29. EXPANSION JOINT. SEE STRUCTURAL
30. PREFABRICATED EXTRUDED ALUMINUM POST-SUPPORTED WALKWAY COVER. INSTALL PER MANUFACTURER REQUIREMENTS. SEE DETAILS
31. MECHANICAL CHASE
32. WALL MOUNTED SINK. COORDINATE w/ PLUMBING

WALL LEGEND

- INTERIOR GYPSUM ON METAL STUD
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- CAST IN PLACE CONCRETE

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FLOOR PLAN - MAIN LEVEL

A1.02

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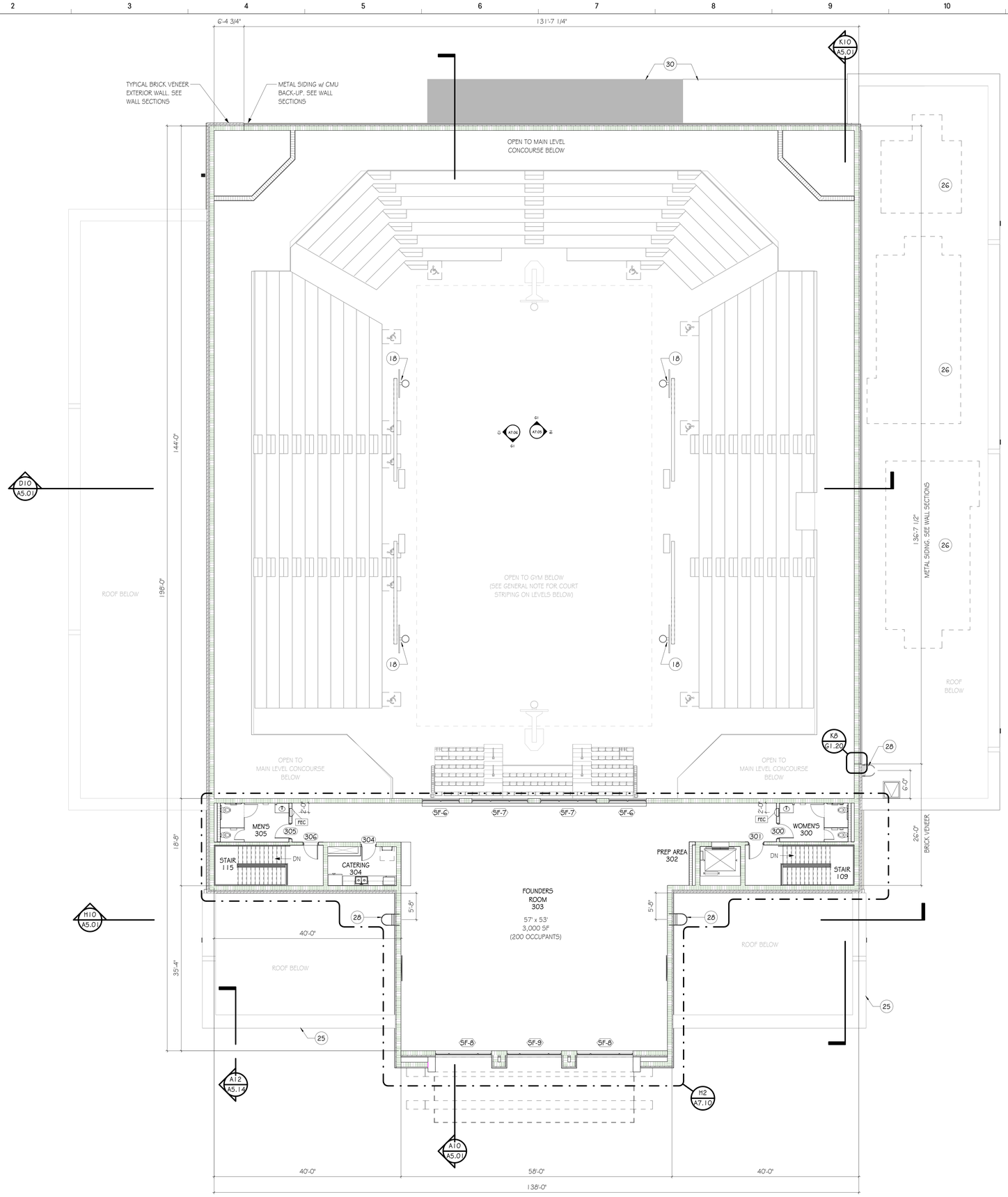

PLAN NORTH

TRUE NORTH

A6 FLOOR PLAN - UPPER LEVEL

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

GENERAL NOTES - FLOOR PLAN

KEY NOTES - FLOOR PLAN

1 42" CABLE GUARDRAIL, SEE DETAILS

2 PRIORITY SEATING, SEE SPECIFICATIONS & SEATING PLAN

3 GLASS DISPLAY CASE, SEE SPECIFICATIONS

4 DRINKING FOUNTAIN w/ BOTTLE FILLER. COORDINATE w/ PLUMBING FOR WATER AND ELECTRICAL FOR POWER.

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8 CONCRETE RETAINING WALL. SEE STRUCTURAL

9 DESIGNATED STORM SHELTER (HATCHED REGION)

10 ROLLING BASKETBALL GOAL. O.F.O.I (OWNER FURNISHED OWNER INSTALLED), SEE SPECIFICATIONS

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13 TEAM SEATING AREA

14 EXTERIOR STAIR. SEE CIVIL

15 TELESCOPING BLEACHERS. SEE SEATING PLAN

16 STANDARD CHAIRBACK SEATING, SEE SEATING PLAN & SPECIFICATIONS

17 ADA DESIGNATED AISLE SEAT

18 RETRACTABLE CEILING MOUNTED BASKETBALL GOAL. O.F.C.I OWNER FURNISHED CONTRACTOR INSTALLED). SEE SPECIFICATIONS

19 50' x 94' REGULATION BASKETBALL COURT, SEE STRIPING PLAN

20 CAST-STONE WALL CAP w/ CONCRETE RETAINING WALL BELOW. SEE STRUCTURAL FOR RETAINING WALL DETAILS

21 CANOPY ABOVE. SEE EXTERIOR DETAILS

22 1 1/2" DIA. HANDRAIL. SHOP PRIMED & POWDER COATED

23 SIDEWALK, SEE CIVIL

24 AUDIO / VIDEO PLATFORM AT MAIN LEVEL. ALL COMPONENTS AND INSTALLATION BY SEATING MANUFACTURER

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27 SLOPED CONCRETE WALL (SEE STRUCTURAL) w/ RAILING ABOVE. RAILING COMPONENTS AND INSTALLATION BY RAILING MANUFACTURER.

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FORT PAYNE, AL 35967

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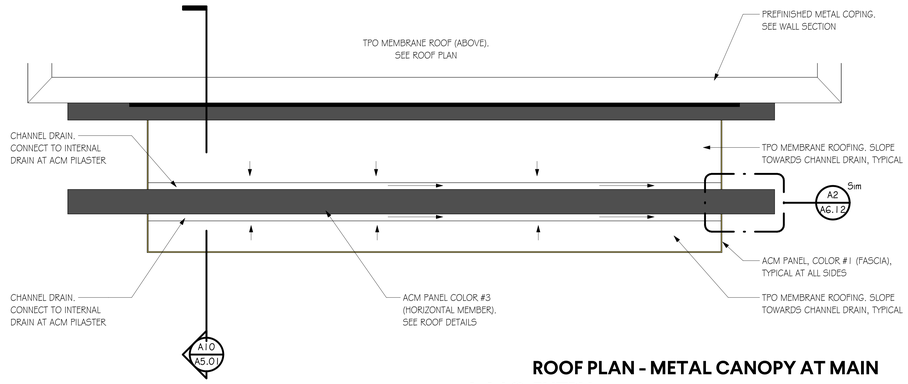
GMC AHUN230009

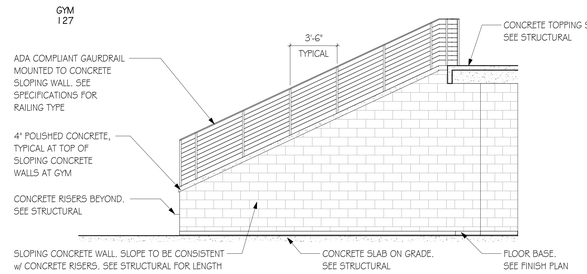
FLOOR PLAN - UPPER LEVEL

A1.03

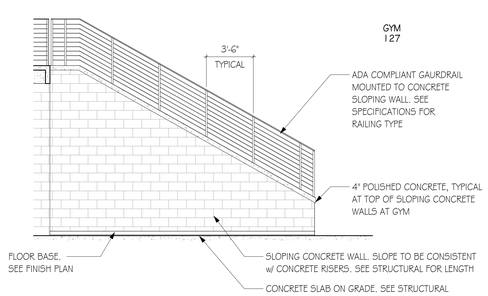
11/14/2024 1:35:31 PM TEMPLATE VERSION: 20221



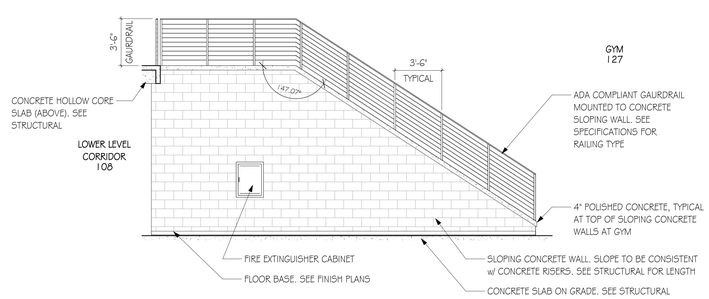
H12 ROOF PLAN - METAL CANOPY AT MAIN ENTRY
SCALE: 1/4" = 1'-0"



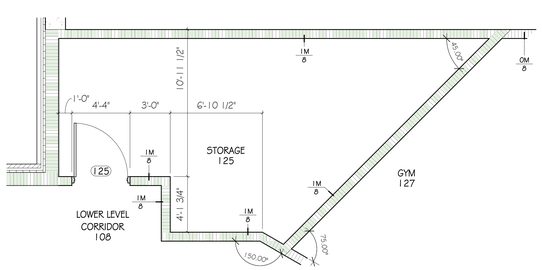
E2 SLOPING CONCRETE WALL AT GYM - 1
SCALE: 1/4" = 1'-0"



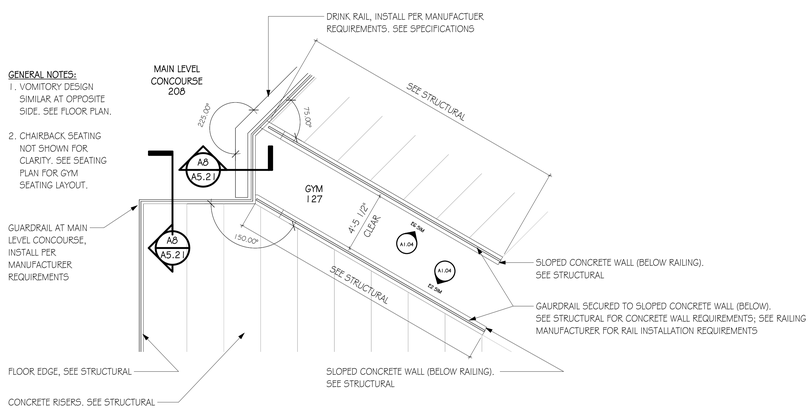
E6 SLOPING CONCRETE WALL AT GYM - 2
SCALE: 1/4" = 1'-0"



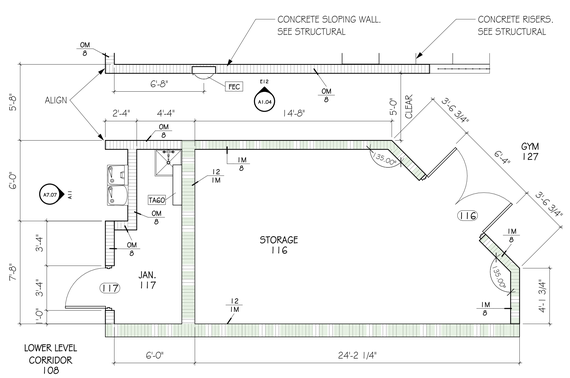
E12 SLOPING CONCRETE WALL AT GYM - 3
SCALE: 1/4" = 1'-0"



A2 LOWER LEVEL - STORAGE 125
SCALE: 1/4" = 1'-0"



A6 MAIN CONCOURSE - SLAB EDGE CONDITION AT VOMITORY
SCALE: 1/4" = 1'-0"



A12 LOWER LEVEL - STORAGE 116
SCALE: 1/4" = 1'-0"

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201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ENLARGED PLANS

A1.04

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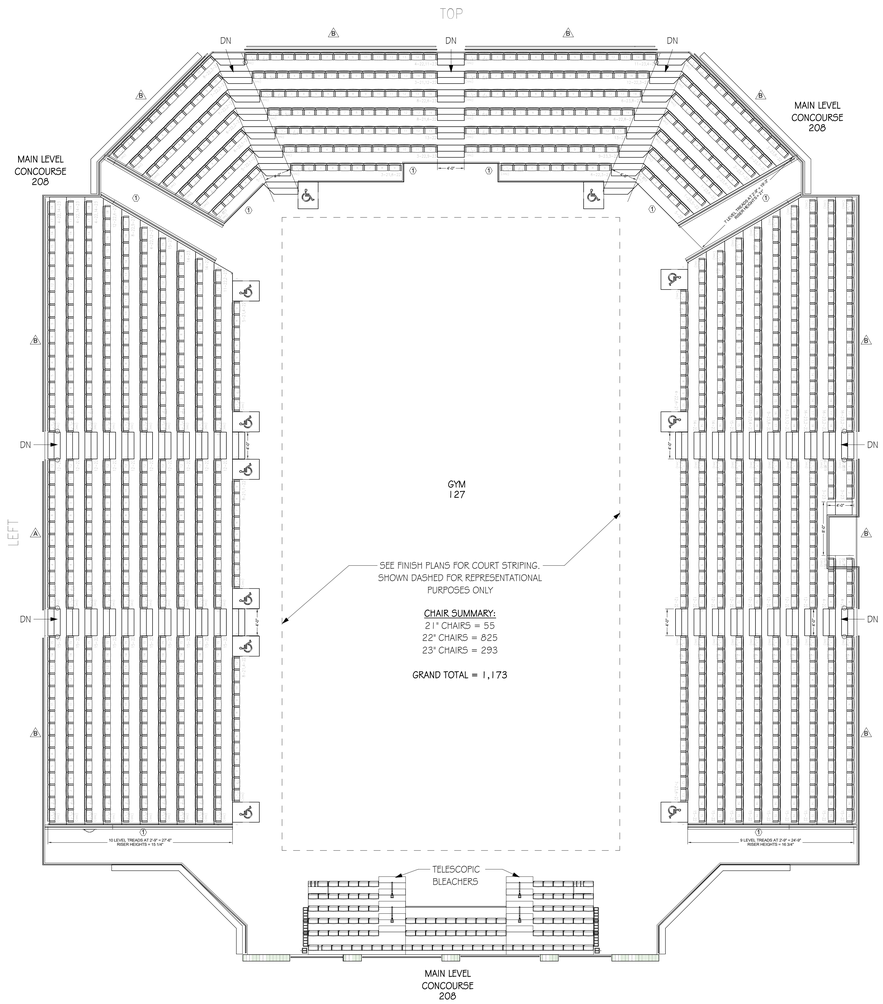


PLAN NORTH

TRUE NORTH

D7 MAIN LEVEL - CHAIRBACK & TELESCOPIC BLEACHER SEATING PLAN

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

Minimum Concrete Floor Requirements

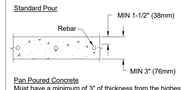
New Concrete:
- Concrete must have minimum compressive strength of 3000 psi.
- Structural light weight concrete requires a minimum of 5000 psi with a dry weight of 90-115 lbs per cubic foot.

Pre-existing / Old concrete:
- Concrete should be tested to verify that minimum requirements can be met.
- Please contact Irwin Seating Company if assistance is needed.

Floor Mounting

- 3" minimum thickness with a surface 1-1/2" free of rebar.
- 2" of anchor embedment is required for maximum holding strength.
- Concrete floors to be smooth (free from dips).

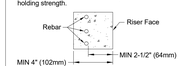
Standard Pour



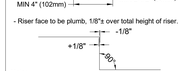
Pan Poured Concrete
Must have a minimum of 3" of thickness from the highest point of corrugation and be free from obstructions.

Riser Mounting

- 4" minimum thickness with 2-1/2" free from obstructions from the riser face.
- 2 1/2" of anchor embedment is required for maximum holding strength.



- Riser face to be plumb, 1/8"± over total height of riser.



Note:
Fillets or chamfers at riser corners could interfere with the use of standard product riser mount chairs. If riser conditions vary from detail shown above, contact Irwin Seating Company.

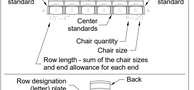
Anchor Attachment Hardware
See Irwin Seating Company installation and user manual.

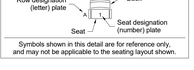
Floor Construction

Failure to meet minimum floor requirements could require alternate fastening methods, including additional installation labor, parts, and time. Extra costs are not the responsibility of Irwin Seating Company. In addition, the installation fastener warranty may be voided.

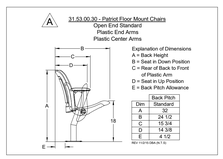
Chair Symbol Detail

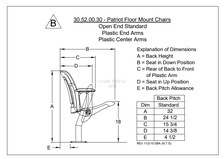
Right and left hand orientation is always referenced "as seated in chair"

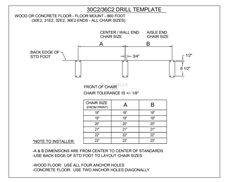




Symbols shown in this detail are for reference only, and may not be applicable to the seating layout shown.







PROJECT NOTES:

IF PROJECT BECOMES AN ORDER, ALL BUILDING DIMENSIONS AND FLOOR ELEVATIONS WILL NEED TO BE PROVIDED AND/OR FIELD VERIFIED.

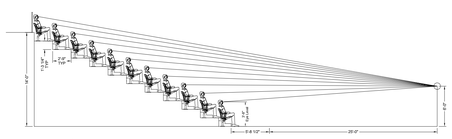
(I) IRWIN SEATING COMPANY SUGGESTS RAILING IN THIS LOCATION.

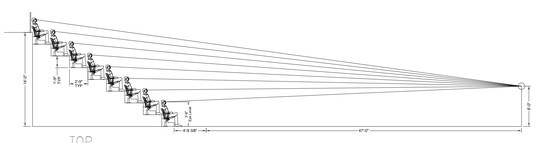
ADA DESIGNATED AISLE SEATS WITH RETRACTABLE ARMREST ARE SHOWN AT SUGGESTED LOCATIONS FOR ADA CODE COMPLIANCE. PLEASE REVIEW AND ADVISE.

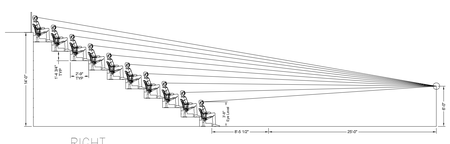
CHAIR NUMBER/LETTER SCHEME SHOWN IS SUGGESTED. CUSTOMER MAY REQUEST AN ALTERNATE SCHEME. NOTE LETTER "I" CURRENTLY IS NOT USED IN ROW LETTERING SCHEME SHOWN.

CONCEPT ONLY MUST BE APPROVED BY CUSTOMER.

WHEELCHAIR LOCATIONS AND QUANTITIES ARE SHOWN PER PLANS RECEIVED.







END STANDARD END ALLOWANCES:

1.5" FOR EACH END STANDARD

ACCESSORY LEGEND		
Symbol	Accessory Description	Qty
	Row Tags: LP1 2" Rd. Bronze - End Panel	Per Print
	Seat Tags: LP2 Oval Bronze - Seat	Per Print
(A)	ADA Designated Aisle Seat (With Retractable Armrest)	10

A7 SEATING DETAILS & DIAGRAMS

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

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ISSUE	DATE
DCM FINAL SUBMITTAL	11/14/24

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STATE of ALABAMA
Jay W Purkey
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REGISTERED ARCHITECT

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE.
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

SEATING PLAN & DETAILS

A1.05

TEMPLATE VERSION: 20221

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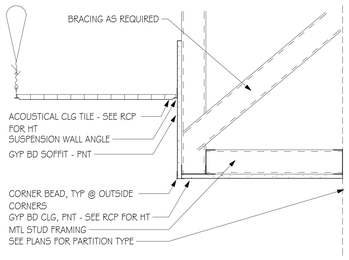
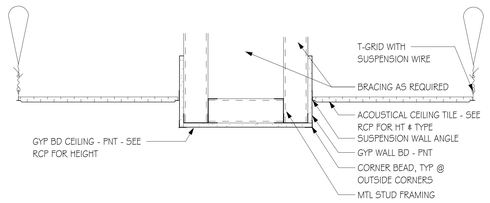
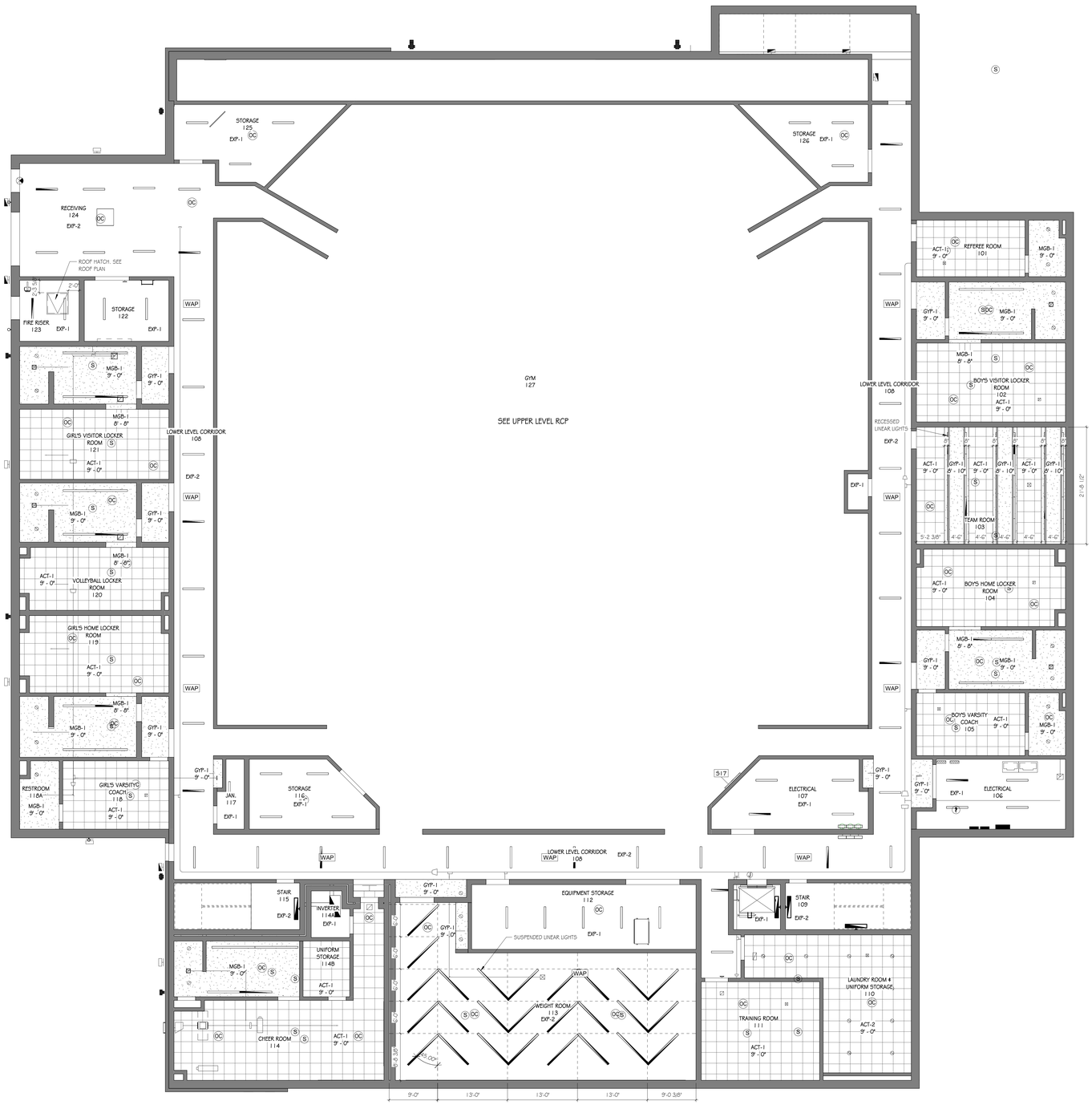


L1 TYPICAL - ACT-GYP SOFFIT
SCALE: 11/2" = 1'-0"



L4 TYPICAL - ACT-GYP-ACT
SCALE: 11/2" = 1'-0"



A1 REFLECTED CEILING PLAN - LOWER LEVEL
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING FINISHES:
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2X2'
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2X4'
- GYP BOARD - INTERIOR EIFS SOFFIT - EXTERIOR
- EXPOSED STRUCTURE
- RECESSED LIGHT POCKET

MECHANICAL:
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN

LIGHTING:
- 2X2 LAY-IN FIXTURE
- 2X4 LAY-IN FIXTURE
- LINEAR SUSPENDED FIXTURE
- LINEAR RECESSED FIXTURE
- LINEAR WALL MT. FIXTURE
- CIRCULAR SURF. MT. FIXTURE
- CIRCULAR PENDANT FIXTURE
- CIRCULAR RECESSED FIXTURE
- CIRCULAR WALL MT.FIXTURE
- EXIT LIGHT

CEILING FINISH LEGEND

NUMBER	TYPE	DETAIL DESCRIPTION
ACT-1	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: DUNE 1772 SQUARE LAY-IN 15/16 COLOR: WHITE SIZE: 24" X 24" X 5/8" SUSPENSION SYSTEM: 15/16" GRID WHITE
ACT-2	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CLEAN ROOM VL 868 COLOR: WHITE SIZE: 24" X 24" X 5/8" SUSPENSION SYSTEM: 15/16" GRID WHITE
ACT-3	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CALA 2822 SQUARE TEGULAR 15/16 COLOR: BLACK SIZE: 24" X 24" X 1" SUSPENSION SYSTEM: 15/16" GRID BLACK
ACT-4	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CALLA SHAPES FOR DESIGNFLEX 100102 TEGULAR COLOR: CUSTOM COLOR: BLACK SIZE: 60 DEGREE TRIANGLE 48" X 48" X 1" SUSPENSION SYSTEM: SUPRAFINE XM 9/16" EXPOSED TEE
AMP-1	ACOUSTICAL METAL PANELS	MANUFACTURER: ARKTURA STYLE: VAPOR TRAIL PANELS A, B, C, D W/ BACKLIGHTING COLOR: BLACK POWDER COATED STEEL SIZE: 2' X 4' X 1 1/2" SUSPENSION SYSTEM: T-GRID W/ ADAPTER CLIP
GYP-1	GYP BOARD CEILING	PAINTED GYP BOARD CEILING COLOR: PNT-3 (U.N.O. ON RCP)
MGB-1	MOISTURE RESISTANT GYP BOARD CEILING	PAINTED GYP BOARD CEILING - MOISTURE RESISTANT COLOR: PNT-3 (U.N.O. ON RCP)
EXP-1	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH NO FINISH
EXP-2	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH FINISH. SEE EXP-2 CEILING LEGEND FOR COLOR

EXP-2 LEGEND

STAIRWELLS:
- CONCRETE BEAMS & COLUMNS - PNT-3
- ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

LOWER LEVEL CONCOURSE:
- CONCRETE BEAMS & COLUMNS - PNT-3
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

RECEIVING:
- CONCRETE BEAMS & COLUMNS - PNT-3
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

WEIGHT ROOM:
- CONCRETE BEAMS & COLUMNS - PNT-4
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-4

GYM:
- CONCRETE BEAMS & COLUMNS - PNT-5
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-5

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FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

REFLECTED CEILING PLAN - LOWER LEVEL

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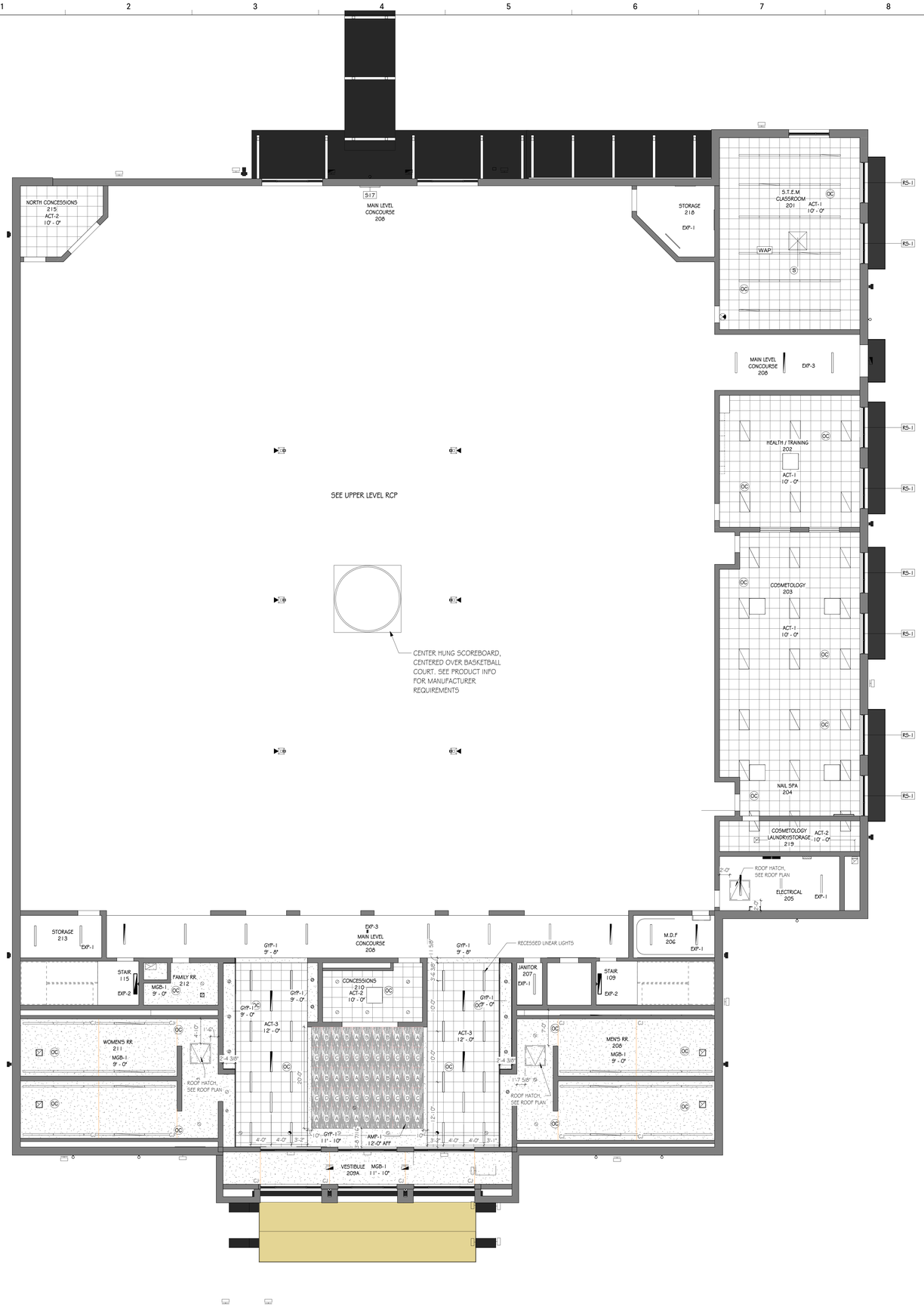
11/13/2024 11:50:59 AM TEMPLATE VERSION: 20221



A2 REFELCTED CEILING PLAN - MAIN LEVEL
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

CEILING FINISHES:
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2X2'
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2X4'
- GYP BOARD - INTERIOR EIFS SOFFIT - EXTERIOR
- EXPOSED STRUCTURE
- RECESSED LIGHT POCKET

MECHANICAL:
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN

LIGHTING:
- 2X2 LAY-IN FIXTURE
- 2X4 LAY-IN FIXTURE
- LINEAR SUSPENDED FIXTURE
- LINEAR RECESSED FIXTURE
- LINEAR WALL MT. FIXTURE
- CIRCULAR SURF. MT. FIXTURE
- CIRCULAR PENDANT FIXTURE
- CIRCULAR RECESSED FIXTURE
- CIRCULAR WALL MT.FIXTURE
- EXIT LIGHT

AMP-1 PANEL CONFIGURATION

A	B
C	D

CEILING FINISH LEGEND

NUMBER	TYPE	DETAIL DESCRIPTION
ACT-1	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: DUNE 1772 SQUARE LAY-IN 15/16 COLOR: WHITE SIZE: 24" X 24" X 5/8" SUSPENSION SYSTEM: 15/16" GRID WHITE
ACT-2	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CLEAN ROOM VL 868 COLOR: WHITE SIZE: 24" X 24" X 5/8" SUSPENSION SYSTEM: 15/16" GRID WHITE
ACT-3	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CALA 2822 SQUARE TEGULAR 15/16 COLOR: BLACK SIZE: 24" X 24" X 1" SUSPENSION SYSTEM: 15/16" GRID BLACK
ACT-4	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CALLA SHAPES FOR DESIGNFLEX 100102 TEGULAR COLOR: CUSTOM COLOR: BLACK SIZE: 60 DEGREE TRIANGLE 48" X 48" X 1" SUSPENSION SYSTEM: SUPRAFINE XM 9/16" EXPOSED TEE
AMP-1	ACOUSTICAL METAL PANELS	MANUFACTURER: ARKTURA STYLE: VAPOR TRAIL PANELS A, B, C, D W/ BACKLIGHTING COLOR: BLACK POWDER COATED STEEL SIZE: 2' X 4' X 1 1/2" SUSPENSION SYSTEM: T-GRID W/ ADAPTER CLIP
GYP-1	GYP BOARD CEILING	PAINTED GYP BOARD CEILING COLOR: PNT-3 (U.N.O. ON RCP)
MGB-1	MOISTURE RESISTANT GYP BOARD CEILING	PAINTED GYP BOARD CEILING - MOISTURE RESISTANT COLOR: PNT-3 (U.N.O. ON RCP)
EXP-1	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH NO FINISH
EXP-2	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH FINISH. SEE EXP-2 CEILING LEGEND FOR COLOR

EXP-2 LEGEND

STAIRWELLS:
- CONCRETE BEAMS & COLUMNS - PNT-3
- ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

LOWER LEVEL CONCOURSE:
- CONCRETE BEAMS & COLUMNS - PNT-3
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

RECEIVING:
- CONCRETE BEAMS & COLUMNS - PNT-3
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

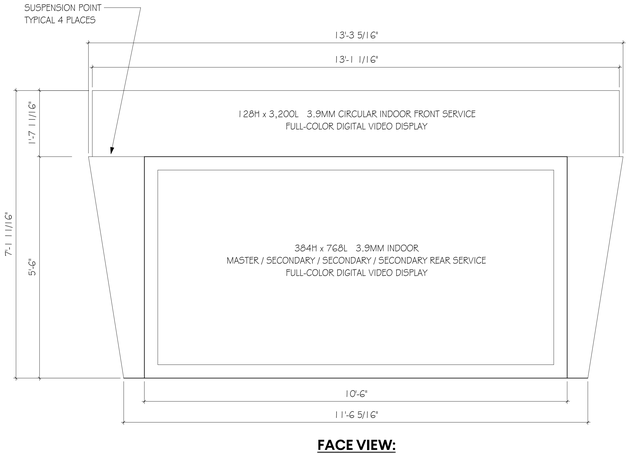
WEIGHT ROOM:
- CONCRETE BEAMS & COLUMNS - PNT-4
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-4

GYM:
- CONCRETE BEAMS & COLUMNS - PNT-5
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-5

FACE VIEW FOR MSSS 384H x 768L 3.9MM ID RS DISPLAY

BASIS OF DESIGN: 4-SIDED LED SCREEN CENTER HUNG (SIGNAL BLACK CABINET)
SCOREBOARD BY: FAIR-PLAY (MODEL #: 01-0903-185-1)
WEBSITE: www.fair-play.com
PHONE: 1-800-247-0265
PROVIDED BY: SCORETIME-SCOREBOARDS
SALES & SERVICE, LLC
OFFICE: (256) 593-2528
SALES (AVERY): (256) 298-3150
SALES (PATTI): (256) 298-3151

CENTER HUNG SCORE BOARD - GENERAL NOTES:
1. SUSPEND AND MOUNT PER MANUFACTURER
2. COORDINATE POWER w/ ELECTRICAL
3. PROVIDE WENCH BY MANUFACTURER. CEILING MOUNT COORDINATE w/ ELECTRICAL
3. PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS (INCLUDING (BUT NOT LIMITED TO) EQUIPMENT, ELECTRICAL MOUNTING, WENCH AND POWER REQUIREMENTS) FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO NEW WORK.



FACE VIEW:
FACE 1 SHOWN, FACES 2-4 TYPICAL

384H x 768L 3.9MM INDOOR
MASTER / SECONDARY / SECONDARY / SECONDARY REAR SERVICE
FULL-COLOR DIGITAL VIDEO DISPLAY

ACTIVE AREA: 9'-10 1/8" L x 4'-11 1/16" H (PER FACE)
CABINET SIZE: 10'-6" L x 5'-6" H (PER FACE)

POWER: RECOMMENDED CUSTOMER PROVIDED DISCONNECT SIZE:

DISPLAY POWER CONSUMPTION: 1,440 WATTS (PER FACE)
5,760 WATTS (4-FACES TOTAL)
MULTIPLE 120 VAC, 60 Hz., CONNECTIONS - (L1, N, G) POWER CONNECTION BETWEEN DISPLAY AND DISCONNECT BOX.

CONTROL CONSOLE: VX4000

LED's: RGB LED

ESTIMATED WEIGHT: 1,670 LBS. (PER FACE)

MANUFACTURER GENERAL NOTES:
* REFERENCE 01-0500-01 FOR INSTALLATION NOTES
* POWER REQUIREMENTS ARE VALID FOR 90 DAYS AFTER THE ORIGINAL RELEASE OR BY THE MOST RECENT REVISION OF THE DRAWING.
* INSTALLED LOCATION OF THE FUSED DISCONNECT SWITCH IS AT THE INSTALLERS DESCRETION AND MUST COMPLY w/ SECTION 600.6(A) OF THE NATIONAL ELECTRICAL CODE

128H x 3,200L 3.9MM CIRCULAR INDOOR FRONT SERVICE
FULL-COLOR DIGITAL VIDEO DISPLAY

ACTIVE AREA: 41'-0 1/8" L x 1'-7 11/16" H

POWER: RECOMMENDED CUSTOMER PROVIDED DISCONNECT SIZE:

DISPLAY POWER CONSUMPTION: 2,250 WATTS (PER FACE)
5,760 WATTS (4-FACES TOTAL)
MULTIPLE 120 VAC, 60 Hz., CONNECTIONS - (L1, N, G) POWER CONNECTION BETWEEN TL VISION DISPLAY AND DISCONNECT BOX.

120 VAC AT THE CONTROL LOCATION

CONTROL CONSOLE: VX4000

LED's: RGB LED

ESTIMATED WEIGHT: 580 LBS.

A10 CENTER HUNG SCOREBOARD AT GYM - PRODUCT INFO
SCALE: 3/4" = 1'-0"

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T 205.879.4462
GMCNETWORK.COM

ISSUE | DATE
DCM FINAL SUBMITTAL | 11.14.24

DRAWN BY: Author
CHECKED BY: Checker

STATE of ALABAMA
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Owens Cross Roads, Alabama
REGISTERED ARCHITECT

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

REFLECTED CEILING PLAN - MAIN LEVEL

A2.02

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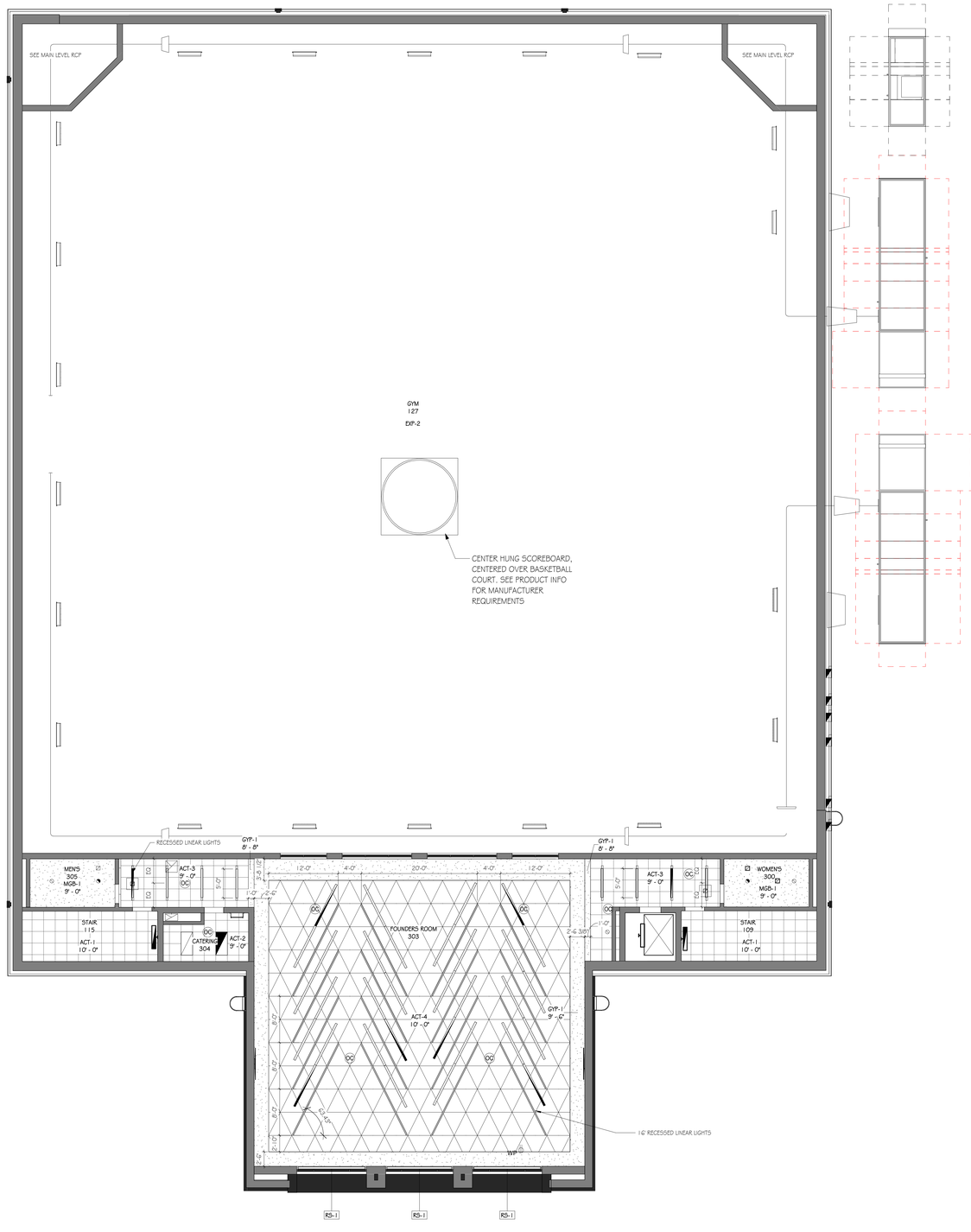

A9 REFLECTED CEILING PLAN - UPPER LEVEL
SCALE: 1/8" = 1'-0"

CEILING FINISH LEGEND

NUMBER	TYPE	DETAIL DESCRIPTION
ACT-1	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: DUNE 1772 SQUARE LAY-IN 15/16 COLOR: WHITE SIZE: 24" X 24" X 5/8" SUSPENSION SYSTEM: 15/16" GRID WHITE
ACT-2	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CLEAN ROOM VL 868 COLOR: WHITE SIZE: 24" X 24" X 5/8" SUSPENSION SYSTEM: 15/16" GRID WHITE
ACT-3	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CALLA 2822 SQUARE TEGULAR 15/16 COLOR: BLACK SIZE: 24" X 24" X 1" SUSPENSION SYSTEM: 15/16" GRID BLACK
ACT-4	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: ARMSTRONG STYLE: CALLA SHAPES FOR DESIGNFLEX 100102 TEGULAR COLOR: CUSTOM COLOR: BLACK SIZE: 60 DEGREE TRIANGLE 48" X 48" X 1" SUSPENSION SYSTEM: SUPRAFINE XM 9/16" EXPOSED TEE
AMP-1	ACOUSTICAL METAL PANELS	MANUFACTURER: ARKTURA STYLE: VAPOR TRAIL PANELS A, B, C, D W/ BACKLIGHTING COLOR: BLACK POWDER COATED STEEL SIZE: 2' X 4' X 1 1/2" SUSPENSION SYSTEM: T-GRID W/ ADAPTER CLIP
GYP-1	GYP BOARD CEILING	PAINTED GYP BOARD CEILING COLOR: PNT-3 (U.N.O. ON RCP)
MGB-1	MOISTURE RESISTANT GYP BOARD CEILING	PAINTED GYP BOARD CEILING - MOISTURE RESISTANT COLOR: PNT-3 (U.N.O. ON RCP)
EXP-1	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH NO FINISH
EXP-2	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH FINISH. SEE EXP-2 CEILING LEGEND FOR COLOR

EXP-2 LEGEND

STAIRWELLS:
- CONCRETE BEAMS & COLUMNS - PNT-3
- ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

LOWER LEVEL CONCOURSE:
- CONCRETE BEAMS & COLUMNS - PNT-3
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

RECEIVING:
- CONCRETE BEAMS & COLUMNS - PNT-3
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-3

WEIGHT ROOM:
- CONCRETE BEAMS & COLUMNS - PNT-4
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-4

GYM:
- CONCRETE BEAMS & COLUMNS - PNT-5
- CEILING & ALL OTHER CEILING ELEMENTS NOT LIMITED TO STRUCTURE, CONDUIT, & PIPING TO BE PAINTED PNT-5

REFLECTED CEILING PLAN LEGEND

CEILING FINISHES:
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2X2'
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2X4'
- GYP BOARD - INTERIOR EIFS SOFFIT - EXTERIOR
- EXPOSED STRUCTURE
- RECESSED LIGHT POCKET

MECHANICAL:
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN

LIGHTING:
- 2X2 LAY-IN FIXTURE
- 2X4 LAY-IN FIXTURE
- LINEAR SUSPENDED FIXTURE
- LINEAR RECESSED FIXTURE
- LINEAR WALL MT. FIXTURE
- CIRCULAR SURF. MT. FIXTURE
- CIRCULAR PENDANT FIXTURE
- CIRCULAR RECESSED FIXTURE
- CIRCULAR WALL MT.FIXTURE
- EXIT LIGHT

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201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC: AHUN230009

REFLECTED CEILING PLAN - UPPER LEVEL

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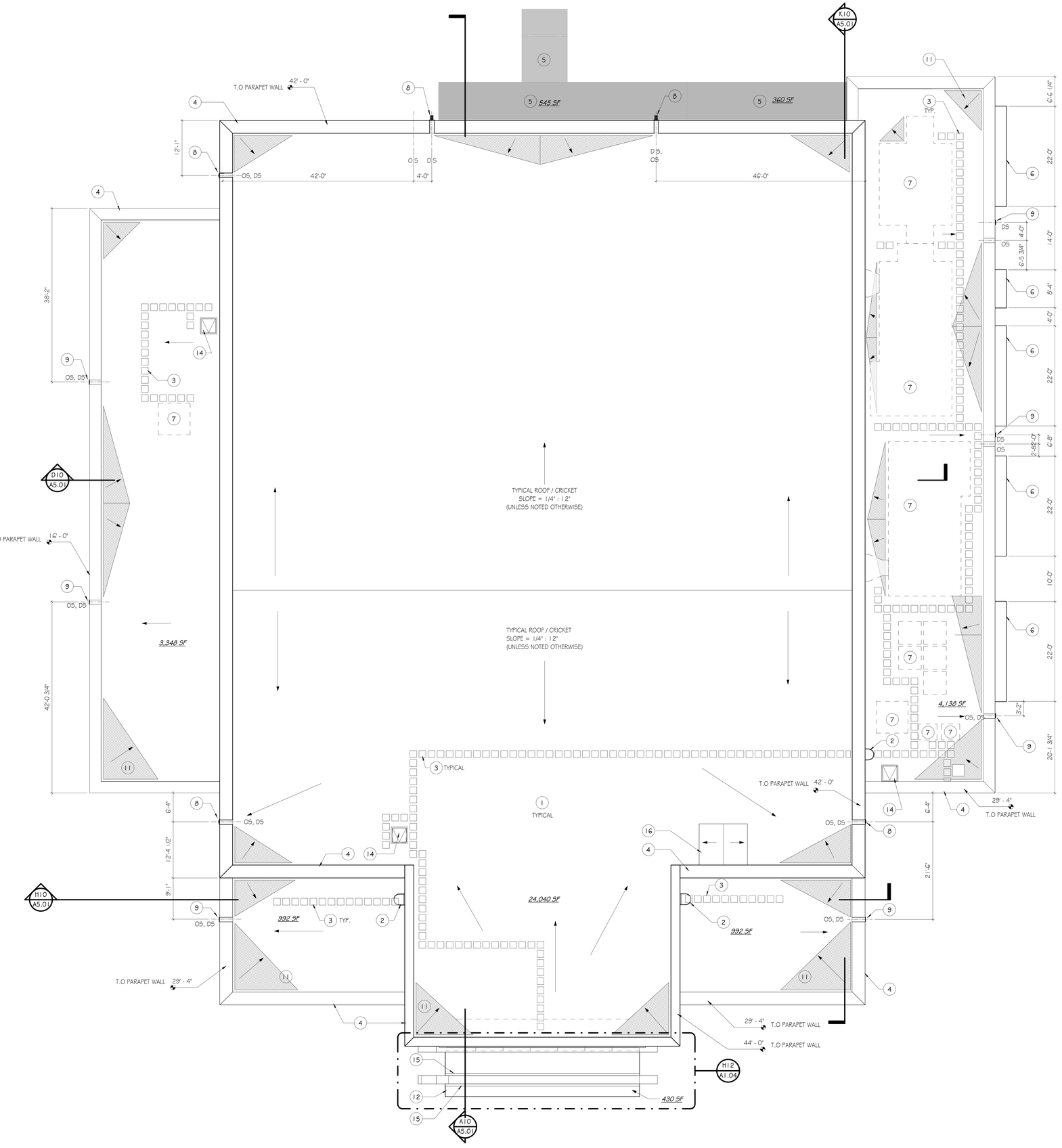

PLAN NORTH

TRUE NORTH

A6 ROOF PLAN

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

ABBREVIATIONS - ROOF PLAN

OS = OVERFLOW SCUPPER

DS = DOWNSPOUT

OC = ON CENTER

SF = SQUARE FEET

GENERAL NOTES - ROOF PLAN

1. DOWNSPOUTS 6" (TYPICAL) UNLESS NOTED OTHERWISE

KEY NOTES - ROOF PLAN

1 TPO MEMBRANE ROOF ASSEMBLY. SEE WALL SECTIONS AND ROOF DETAILS

2 ROOF ACCESS LADDER, SEE SPECIFICATIONS

3 ROOF WALKING PADS, SEE SPECIFICATIONS

4 PREFINISHED METAL COPING (CMU PARAPET WALL BELOW). SEE WALL SECTIONS & DETAILS

5 PREFABRICATED METAL CANOPY. SEE SECTIONS

6 PREFABRICATED METAL SUNSHADE. SEE SECTIONS

7 ROOF TOP UNIT (MECHANICAL EQUIPMENT). LOCATIONS SHOWN ON ARCHITECTURAL ROOF PLAN ARE FOR REPRESENTATIONAL PURPOSES ONLY. SEE MECHANICAL DRAWINGS FOR APPROXIMATE LOCATIONS, CURBS AND ROOF PENETRATIONS

8 8" DOWNSPOUT (DS). PROVIDE CAST-IRON BOOT AT EACH DOWNSPOUT LOCATION. IN TURF PVC, DS IN CONC., COORDINATE w/ CIVIL TO CONNECT TO SUB-GRADE STORM DRAIN

9 6" DOWNSPOUT (DS). PROVIDE BOOT AT EACH DOWNSPOUT LOCATION. COORDINATE w/ CIVIL TO CONNECT TO SUB-GRADE STORM DRAIN

10 OVERFLOW SCUPPER

11 ROOF CRICKET (1/4" PER 12" SLOPE, TYPICAL)

12 METAL CANOPY AT FRONT PLAZA. SEE WALL SECTIONS

13 PREMANUFACTURED ROOF HATCH

14 ROOF HATCH. SEE SPECIFICATIONS

15 PREFINISHED METAL CHANNEL DRAIN. SLOPE TOWARDS INTERNAL DRAIN AT ACM PILASTER. SEE DETAILS

16 T.P.O MEMBRANE ROOFING, TYPICAL (OVER ELEVATOR SHAFT)

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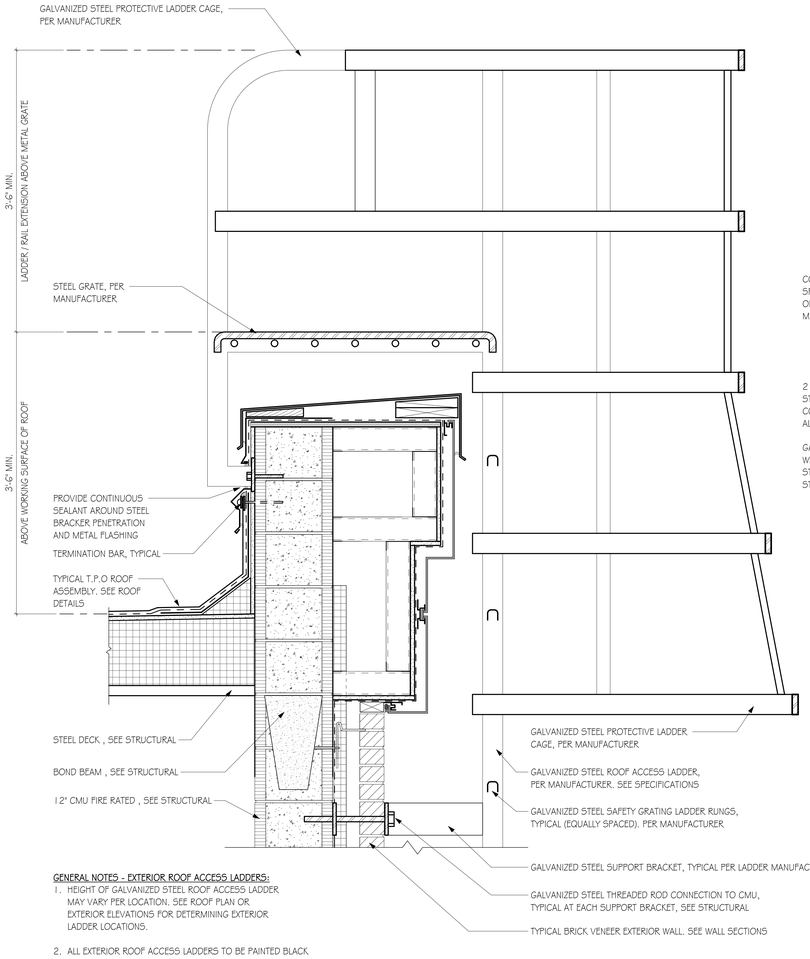
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ROOF PLAN

A3.01

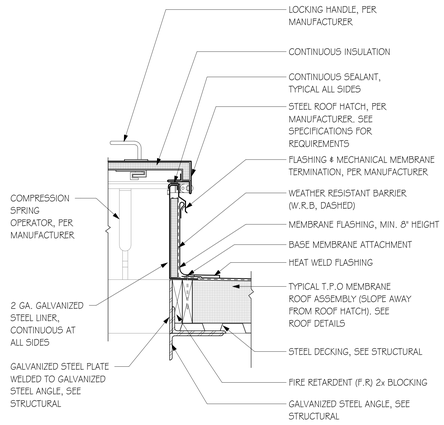
11/18/2024 1:28:52 PM TEMPLATE VERSION: 2022.1



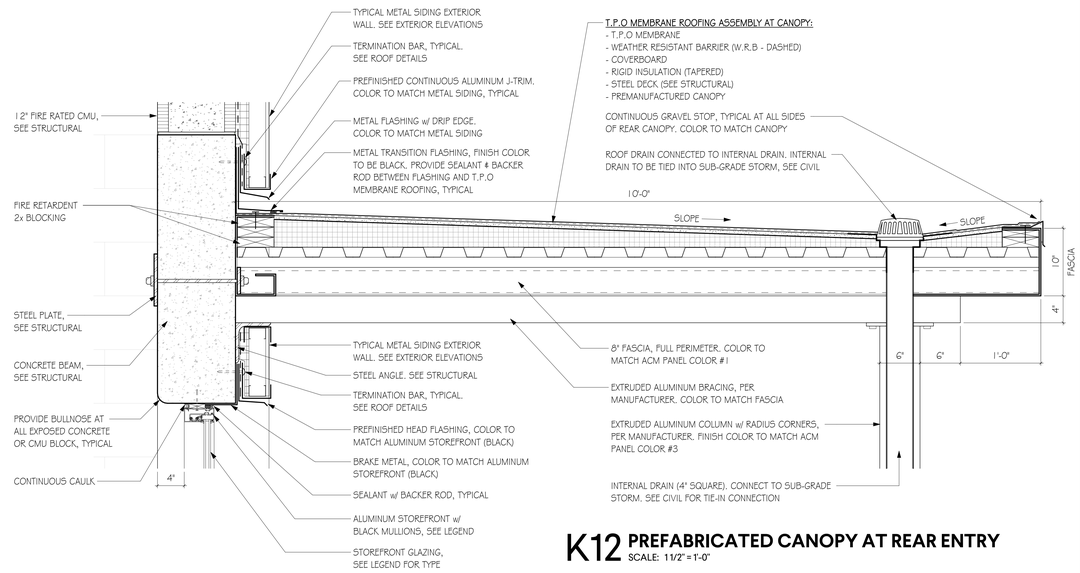
GENERAL NOTES - EXTERIOR ROOF ACCESS LADDERS:

1. HEIGHT OF GALVANIZED STEEL ROOF ACCESS LADDER MAY VARY PER LOCATION. SEE ROOF PLAN OR EXTERIOR ELEVATIONS FOR DETERMINING EXTERIOR LADDER LOCATIONS.
2. ALL EXTERIOR ROOF ACCESS LADDERS TO BE PAINTED BLACK.

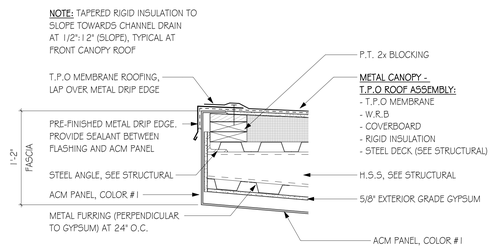
F3 EXTERIOR ROOF ACCESS LADDER
SCALE: 11/2" = 1'-0"



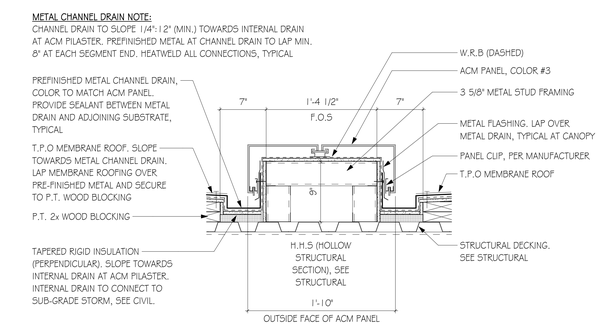
K6 TYPICAL ROOF HATCH
SCALE: 11/2" = 1'-0"



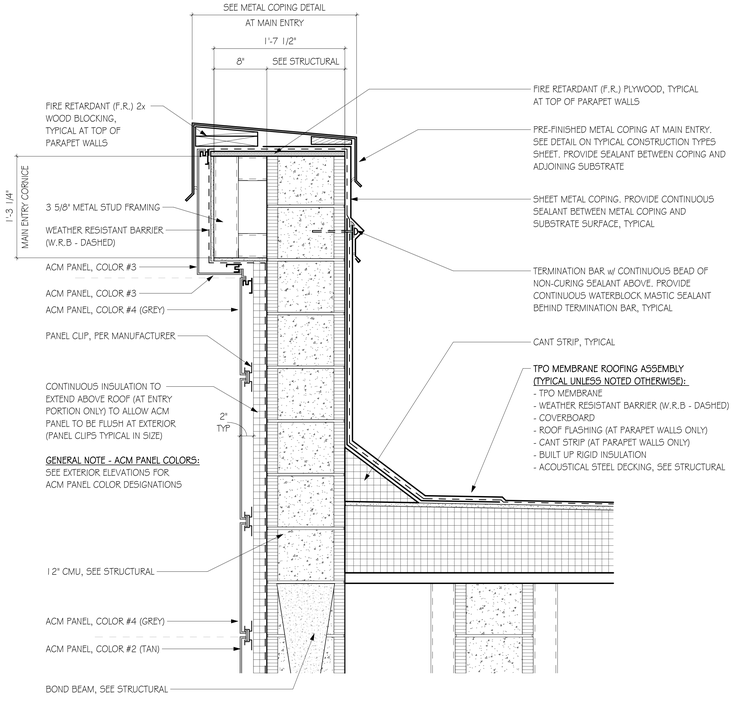
K12 PREFABRICATED CANOPY AT REAR ENTRY
SCALE: 11/2" = 1'-0"



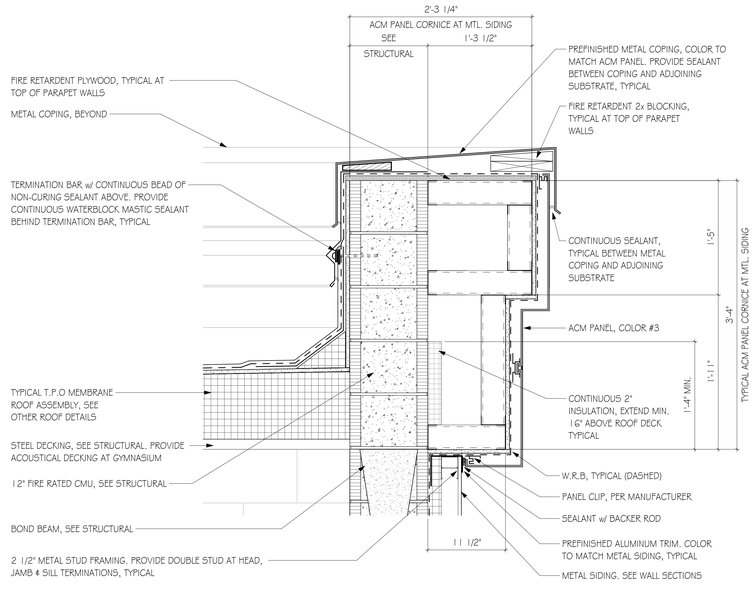
F9 FRONT CANOPY - FASCIA
SCALE: 11/2" = 1'-0"



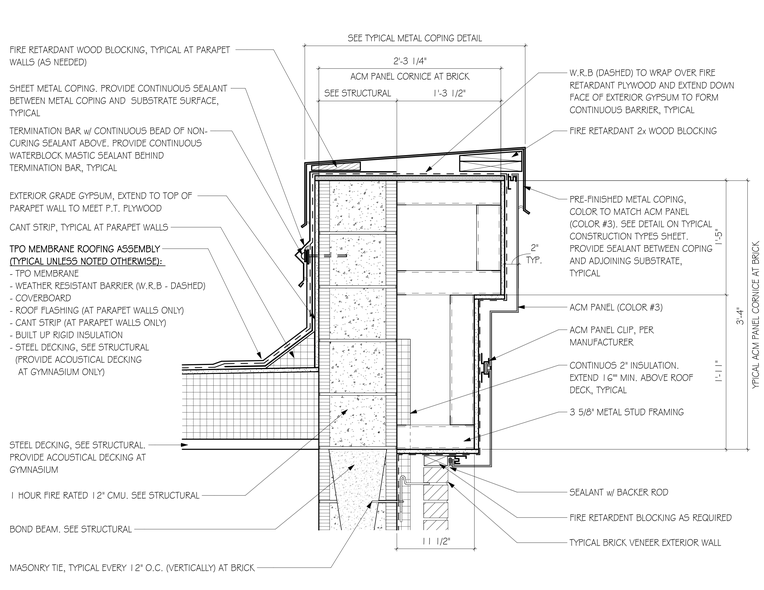
F12 HORIZONTAL ACM AT FRONT CANOPY
SCALE: 11/2" = 1'-0"



A3 ACM PANEL CORNICE AT MAIN ENTRY
SCALE: 11/2" = 1'-0"



A8 ACM CORNICE AT METAL SIDING
SCALE: 11/2" = 1'-0"



A12 TYPICAL ACM PANEL CORNICE
SCALE: 11/2" = 1'-0"

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STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

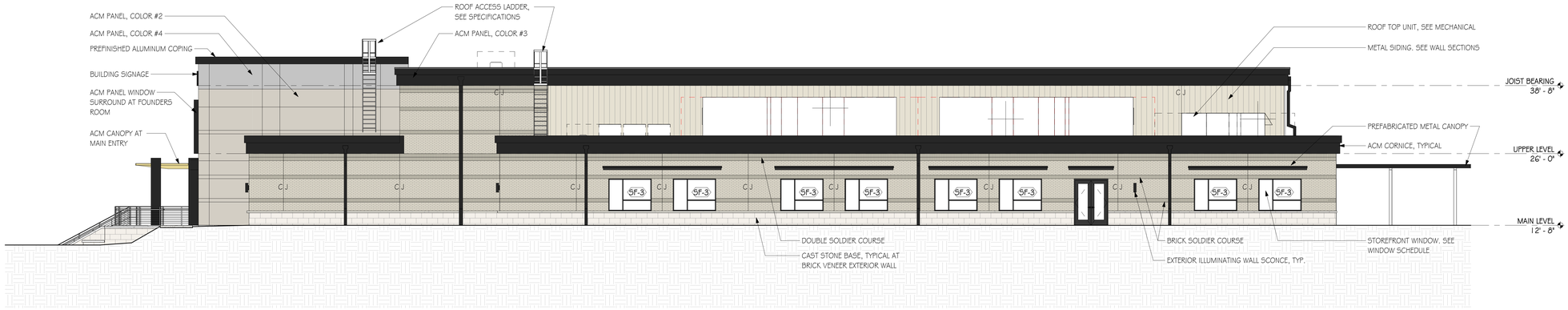
DCM # 20240548
GMC AHUN230009

ROOF DETAILS

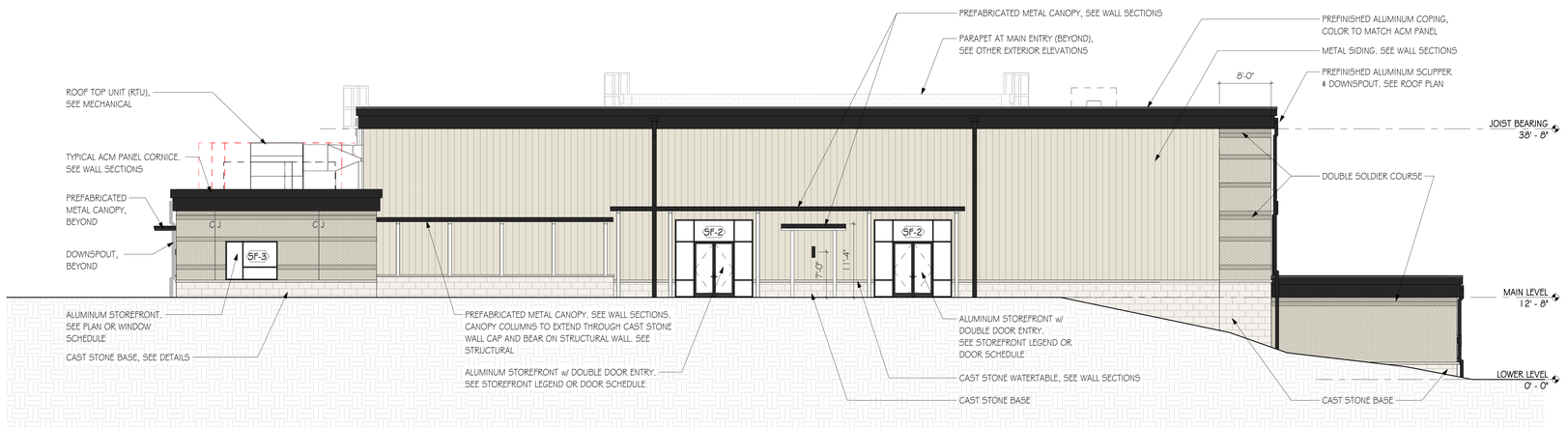
A3.02

11/18/2024 12:05:05 PM TEMPLATE VERSION: 2022.1

ACM PANEL - COLOR LEGEND	
COLOR #1	GOLD
COLOR #2	TAN
COLOR #3	BLACK
COLOR #4	GREY



F10 EXTERIOR ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"



B10 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
2014 5th STREET NE,
FORT PAYNE, AL 35967

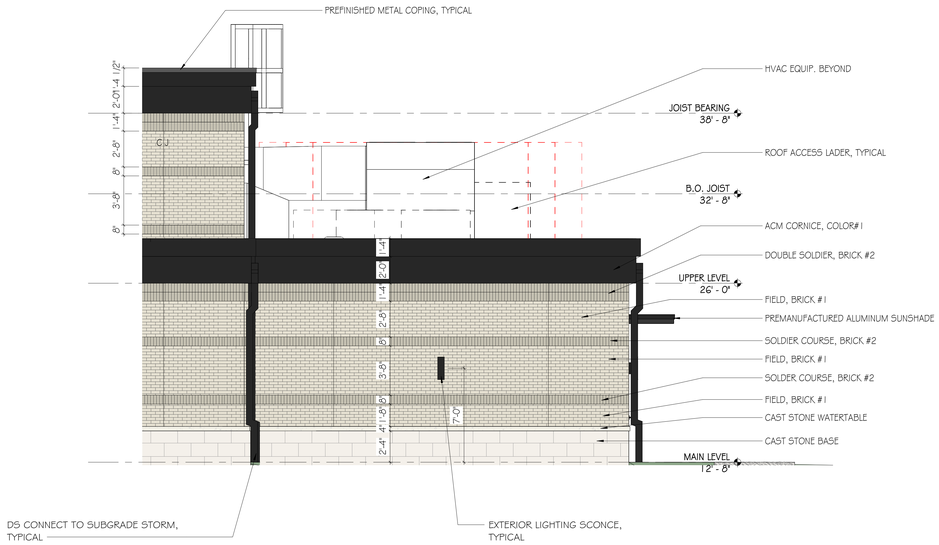
DCM # 20240548
GMC AHUN230009

EXTERIOR ELEVATIONS

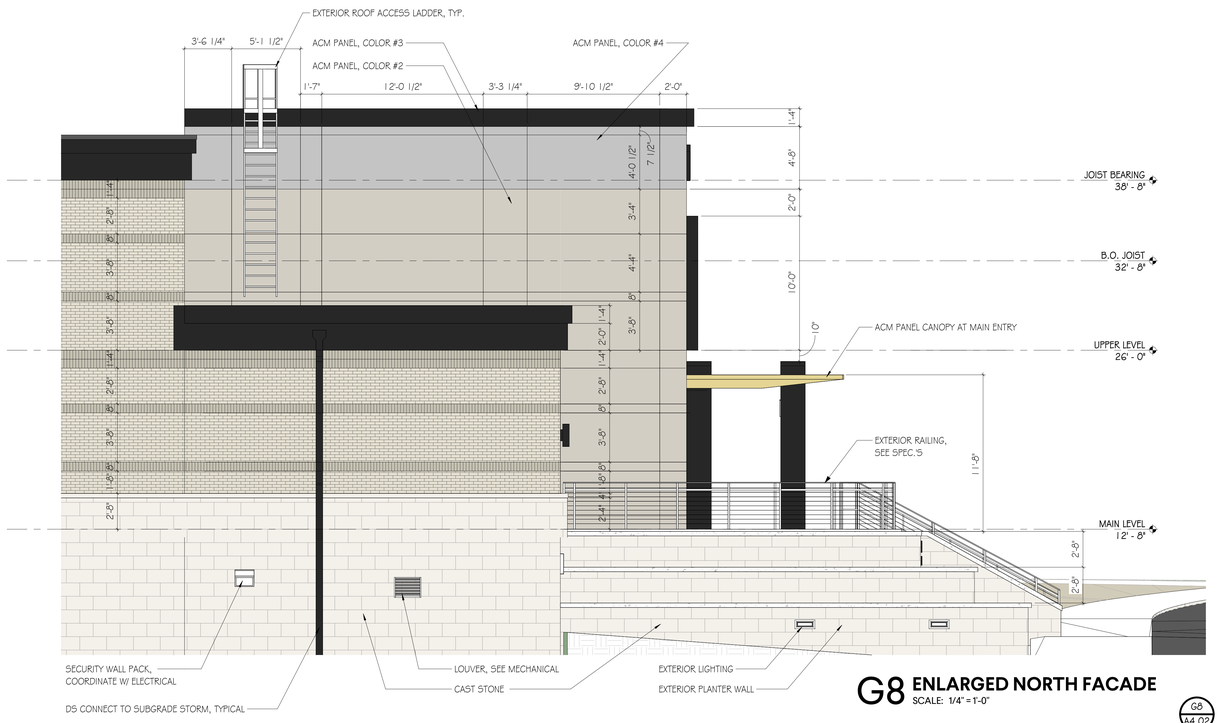
A4.01

11/13/2024 11:52:14 AM TEMPLATE VERSION: 20221

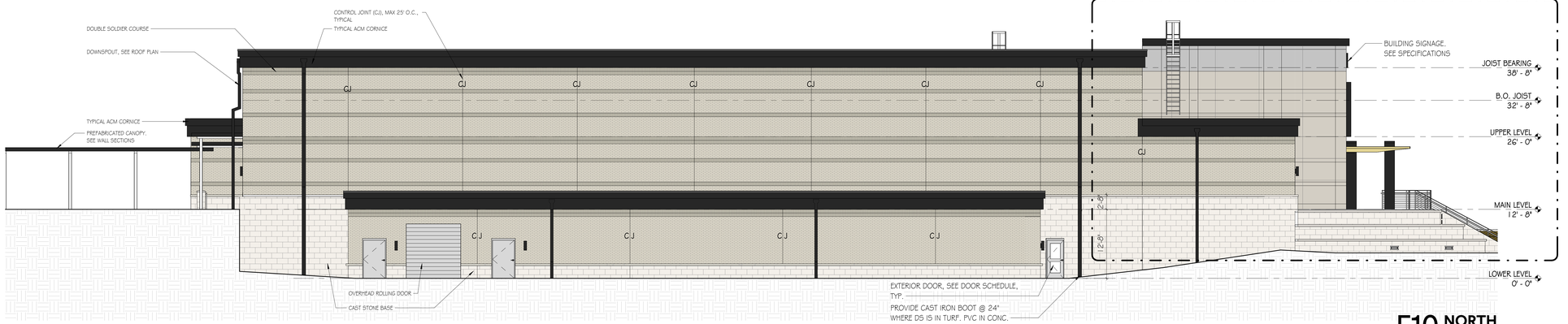
ACM PANEL - COLOR LEGEND		
COLOR #1	GOLD	
COLOR #2	TAN	
COLOR #3	BLACK	
COLOR #4	GREY	



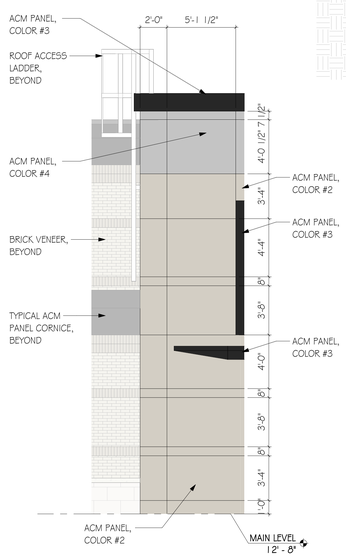
H2 WEST - ENLARGED LOCKER WING
SCALE: 1/4" = 1'-0"



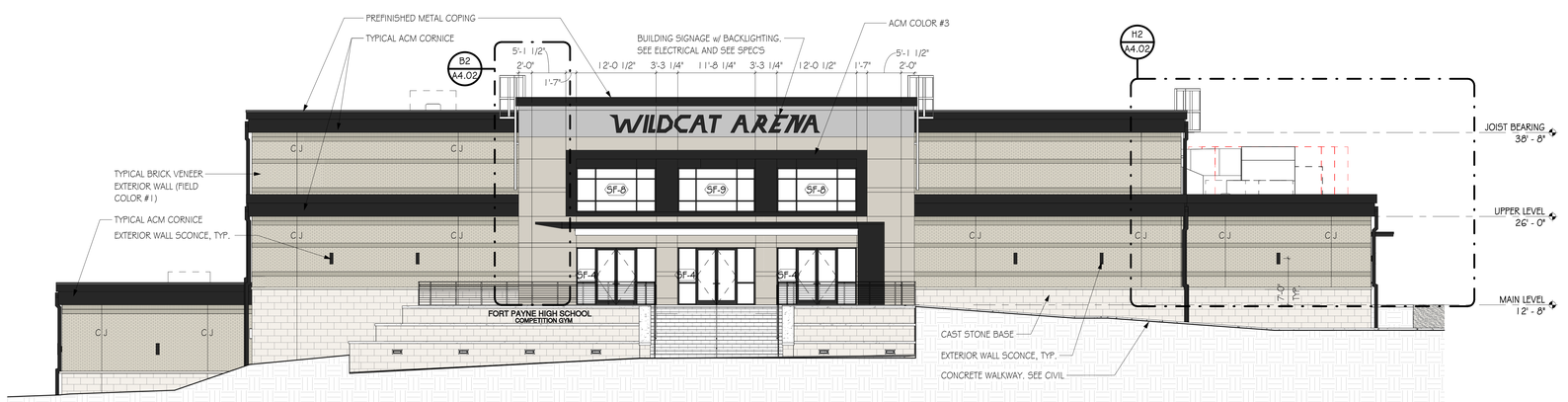
G8 ENLARGED NORTH FACADE
SCALE: 1/4" = 1'-0"



F10 NORTH
SCALE: 1/8" = 1'-0"



B2 ENLARGED WEST FACADE
SCALE: 1/4" = 1'-0"



B10 WEST
SCALE: 1/8" = 1'-0"

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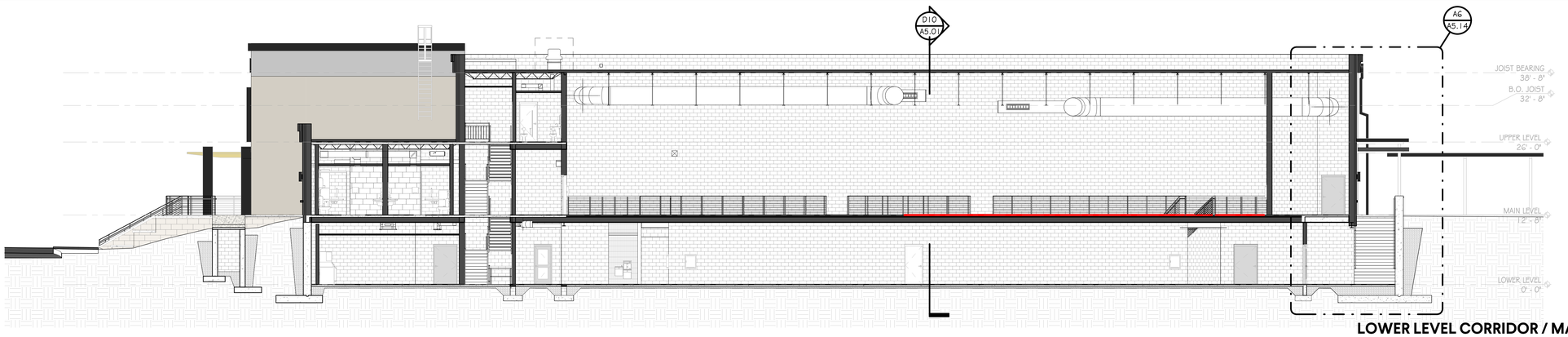
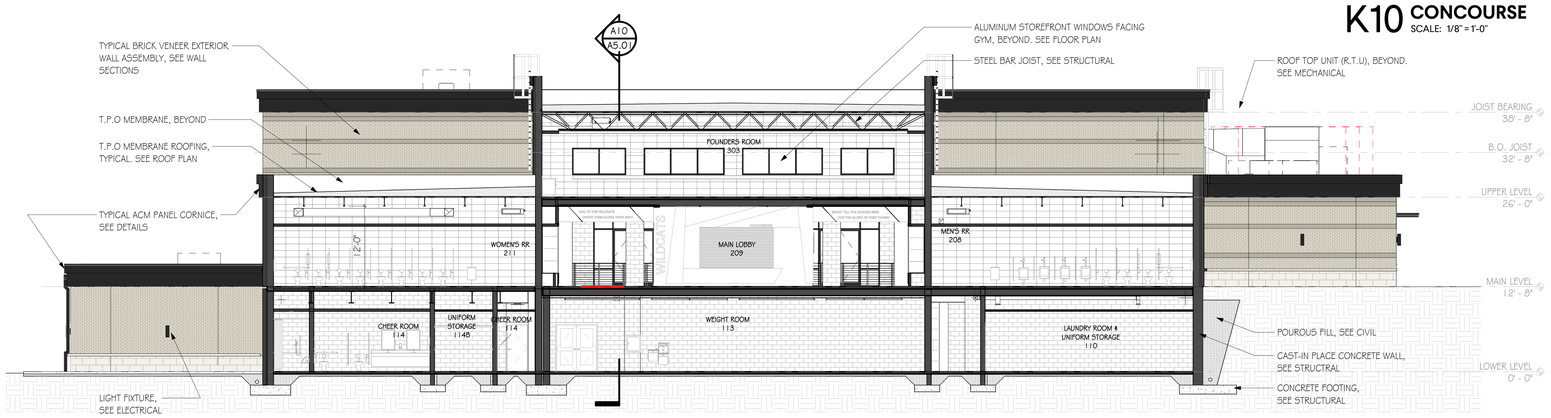
EXTERIOR ELEVATIONS

A4.02

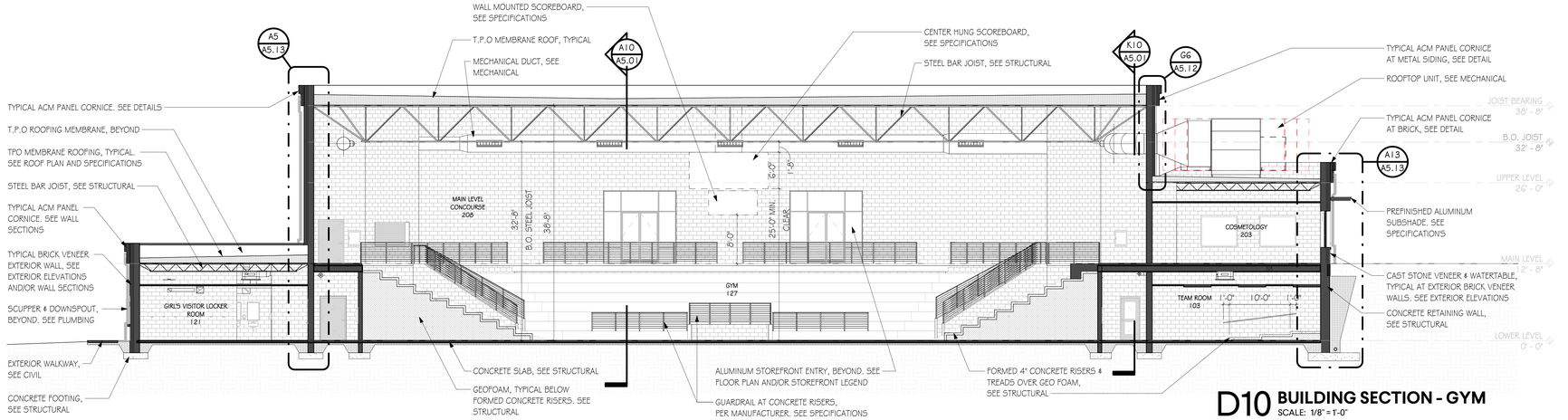
TEMPLATE VERSION: 20221
11/14/2024 1:19:06 PM



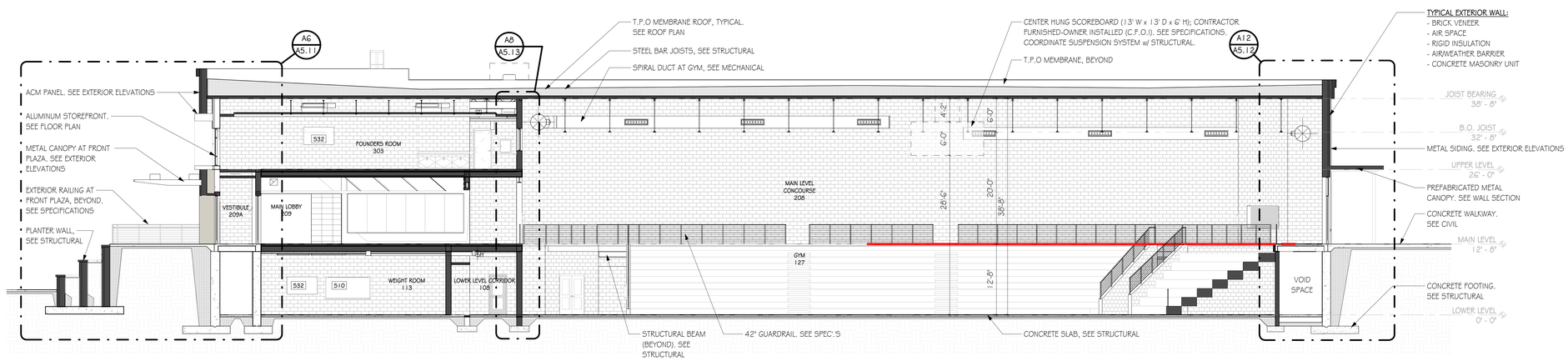
K10 LOWER LEVEL CORRIDOR / MAIN LEVEL CONCOURSE
SCALE: 1/8" = 1'-0"



H10 LOWER LEVEL TO FOUNDERS ROOM
SCALE: 1/8" = 1'-0"



D10 BUILDING SECTION - GYM
SCALE: 1/8" = 1'-0"



A10 BUILDING SECTION - MAIN LOBBY & GYM
SCALE: 1/8" = 1'-0"

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201 45th STREET NE.
FORT PAYNE, AL 35967

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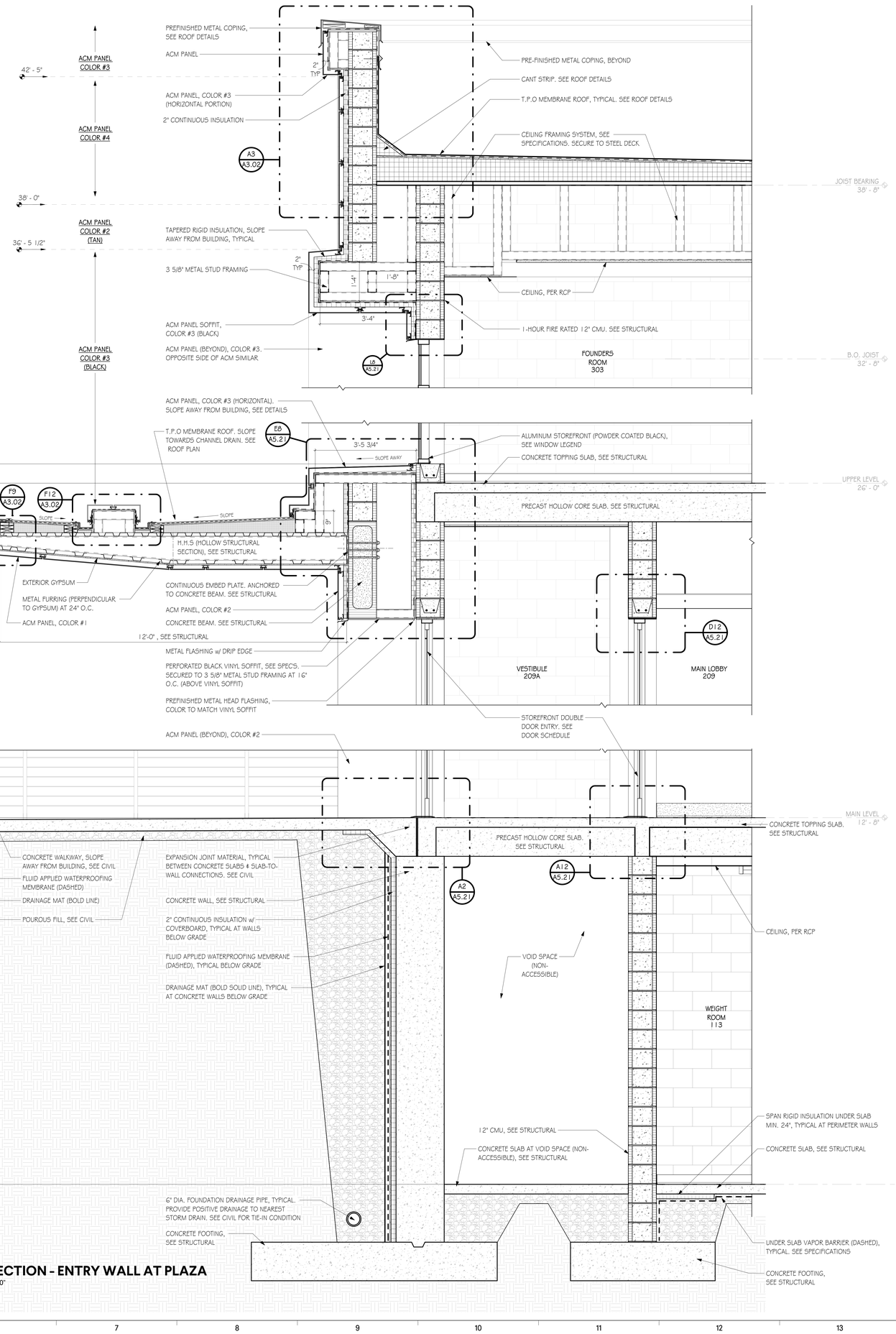
BUILDING SECTIONS

A5.01

11/13/2024 11:53:03 AM TEMPLATE VERSION: 2022.1

ACM PANEL - COLOR LEGEND		
COLOR #1	GOLD	
COLOR #2	TAN	
COLOR #3	BLACK	
COLOR #4	GREY	



A6 WALL SECTION - ENTRY WALL AT PLAZA

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

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
2014 5th STREET NE,
FORT PAYNE, AL 35967

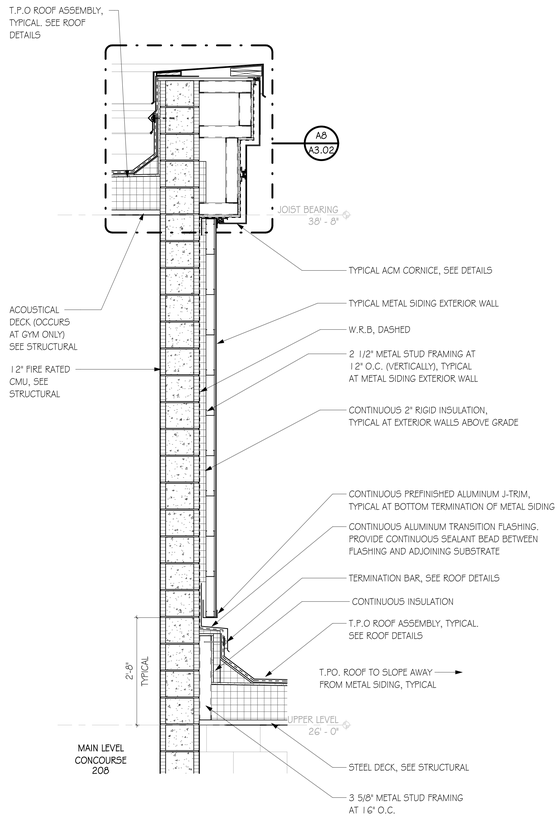
DCM # 20240548
GMC AHUN230009

WALL SECTIONS

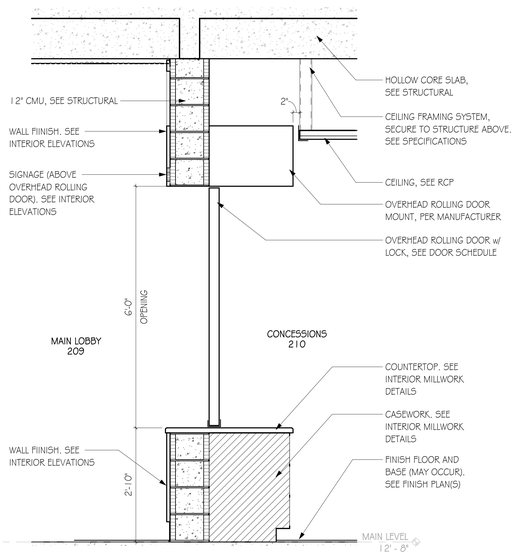
A5.11

11/18/2024 1:40:07 PM TEMPLATE VERSION: 20221

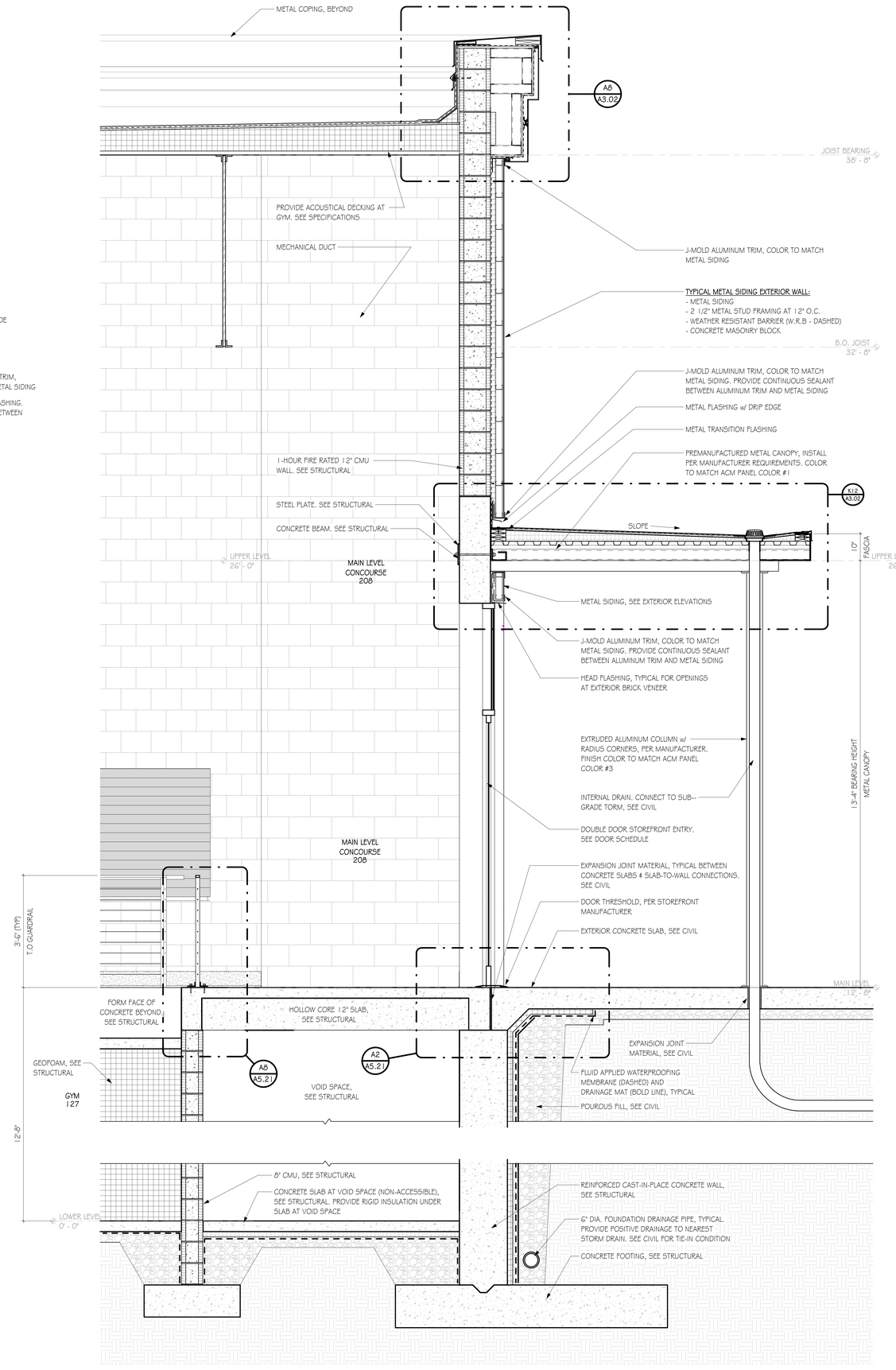
ACM PANEL - COLOR LEGEND		
COLOR #1	GOLD	
COLOR #2	TAN	
COLOR #3	BLACK	
COLOR #4	GREY	



G6 METAL SIDING ABOVE CLASSROOMS
SCALE: 3/4" = 1'-0"



CONCESSIONS - OVERHEAD ROLLING D1 DOOR
SCALE: 3/4" = 1'-0"



A12 WALL SECTION - REAR ENTRY WALL
SCALE: 3/4" = 1'-0"

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201 45th STREET NE,
FORT PAYNE, AL 35967

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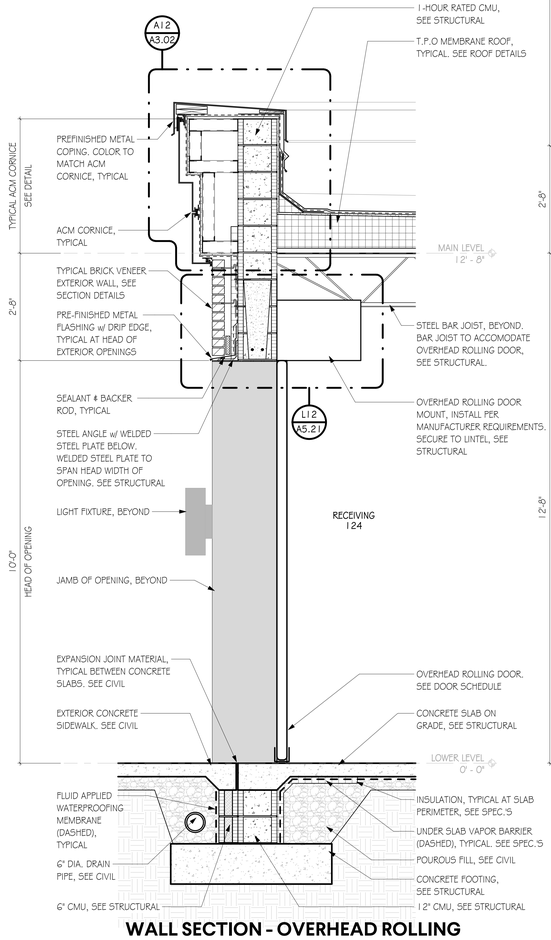
WALL SECTIONS

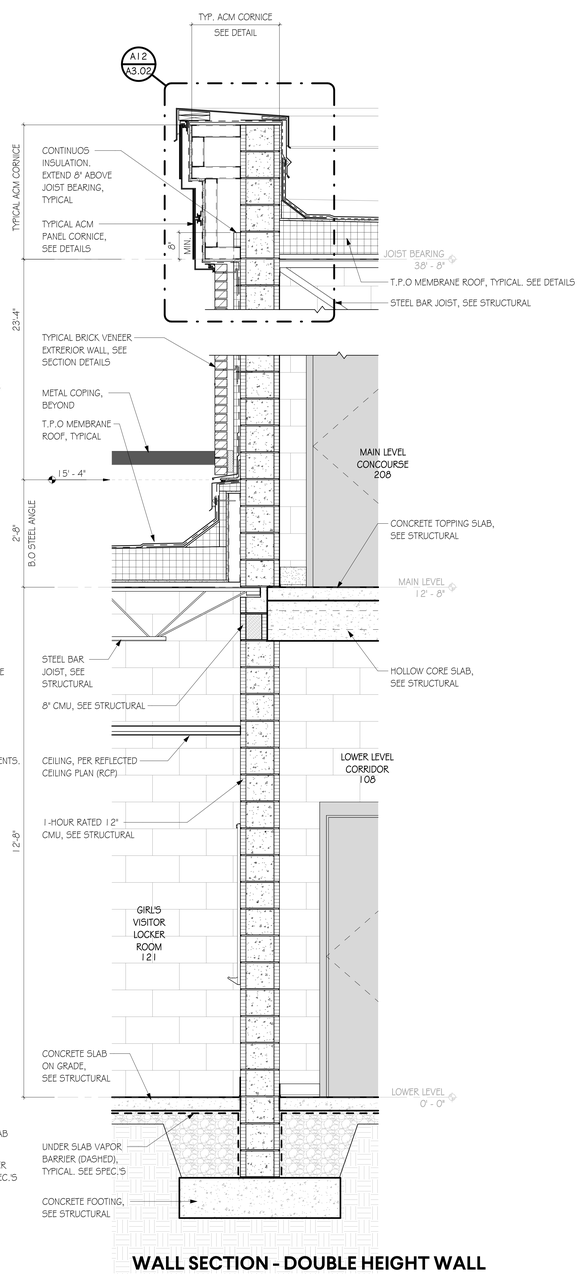
A5.12

11/18/2024 5:38:28 PM TEMPLATE VERSION: 20221



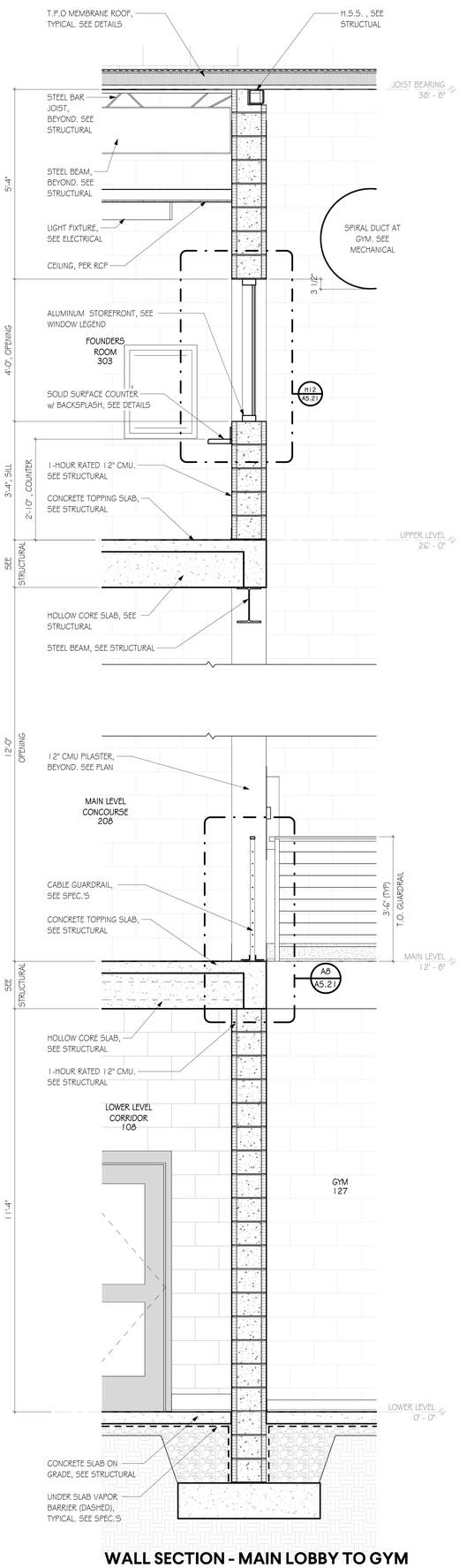
WALL SECTION - OVERHEAD ROLLING

A2 DOOR
SCALE: 3/4" = 1'-0"



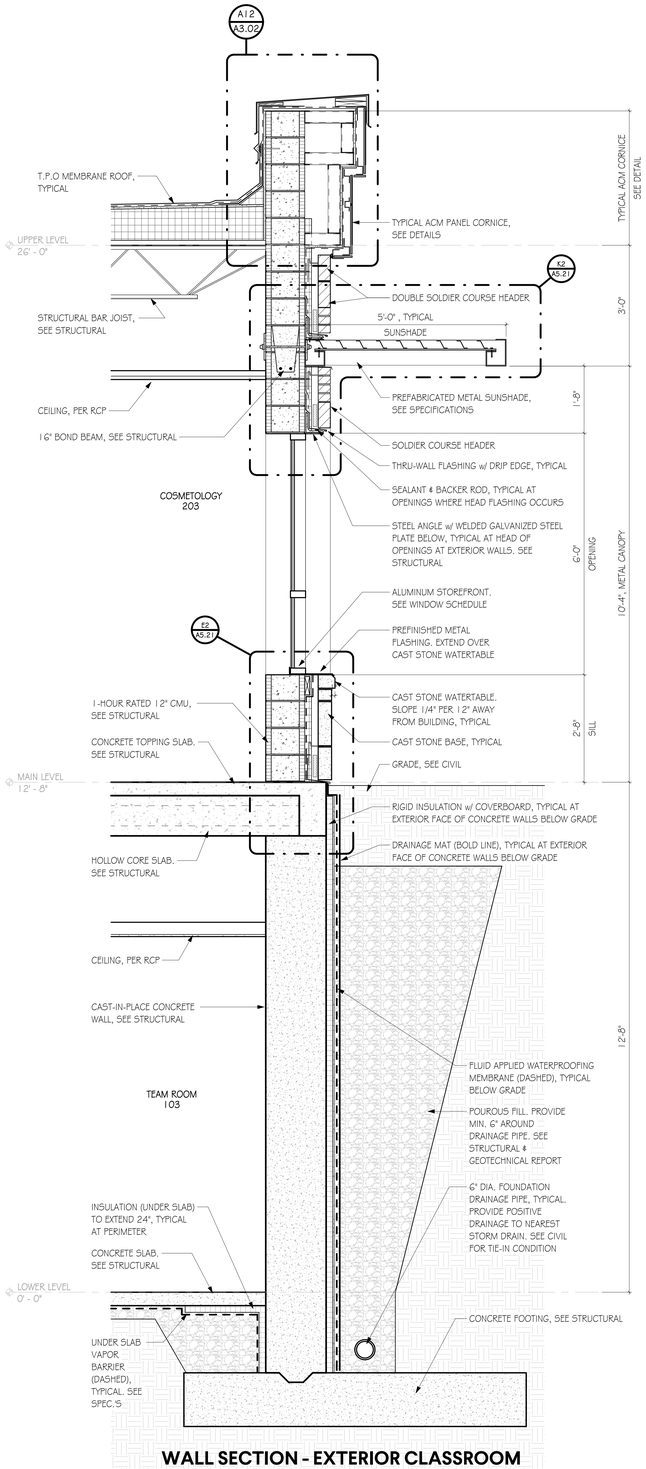
WALL SECTION - DOUBLE HEIGHT WALL

A5 AT GYM
SCALE: 3/4" = 1'-0"



WALL SECTION - MAIN LOBBY TO GYM

A8 TRANSITION
SCALE: 3/4" = 1'-0"



WALL SECTION - EXTERIOR CLASSROOM

A13 WALL
SCALE: 3/4" = 1'-0"

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE.
FORT PAYNE, AL 35967

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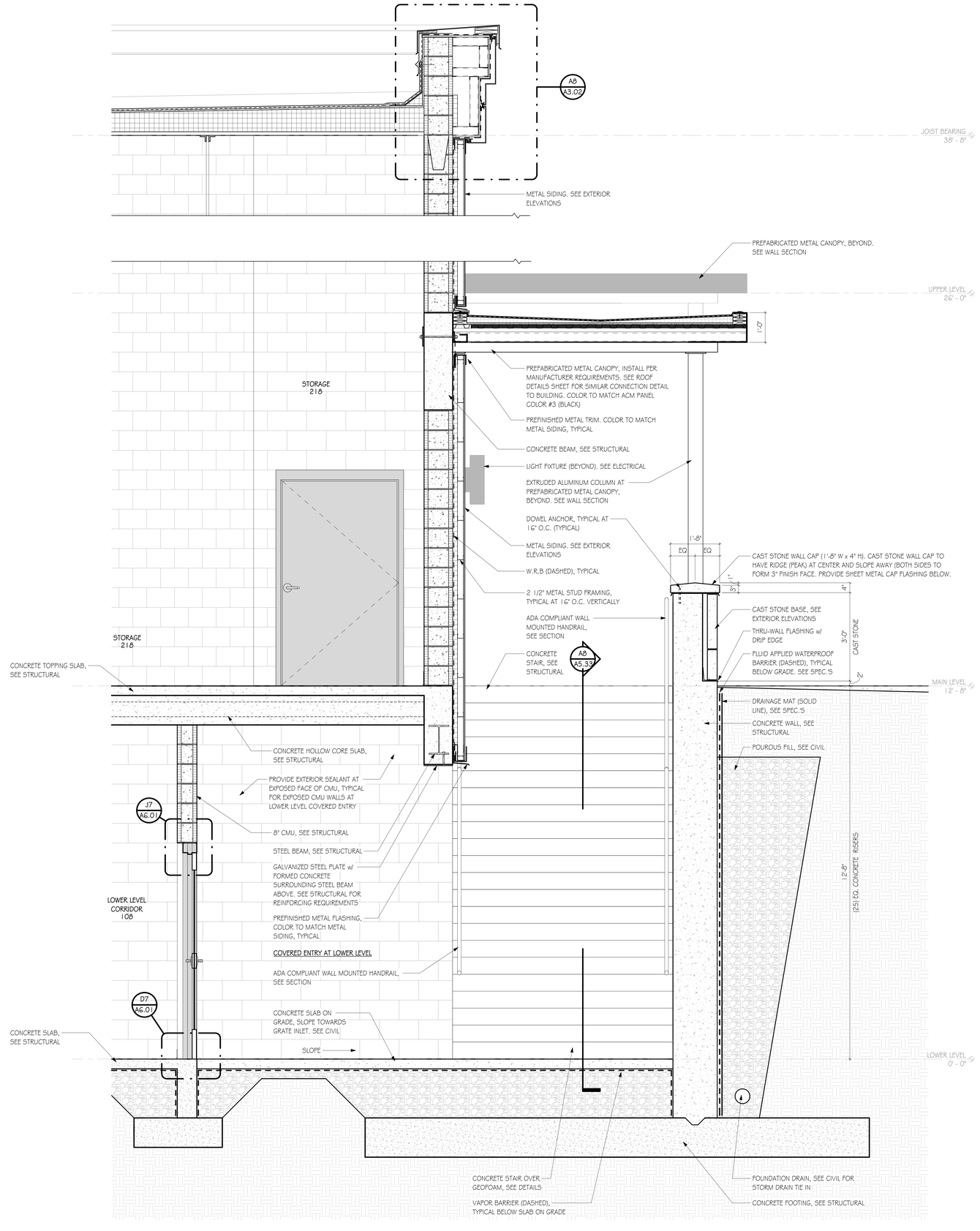
WALL SECTIONS

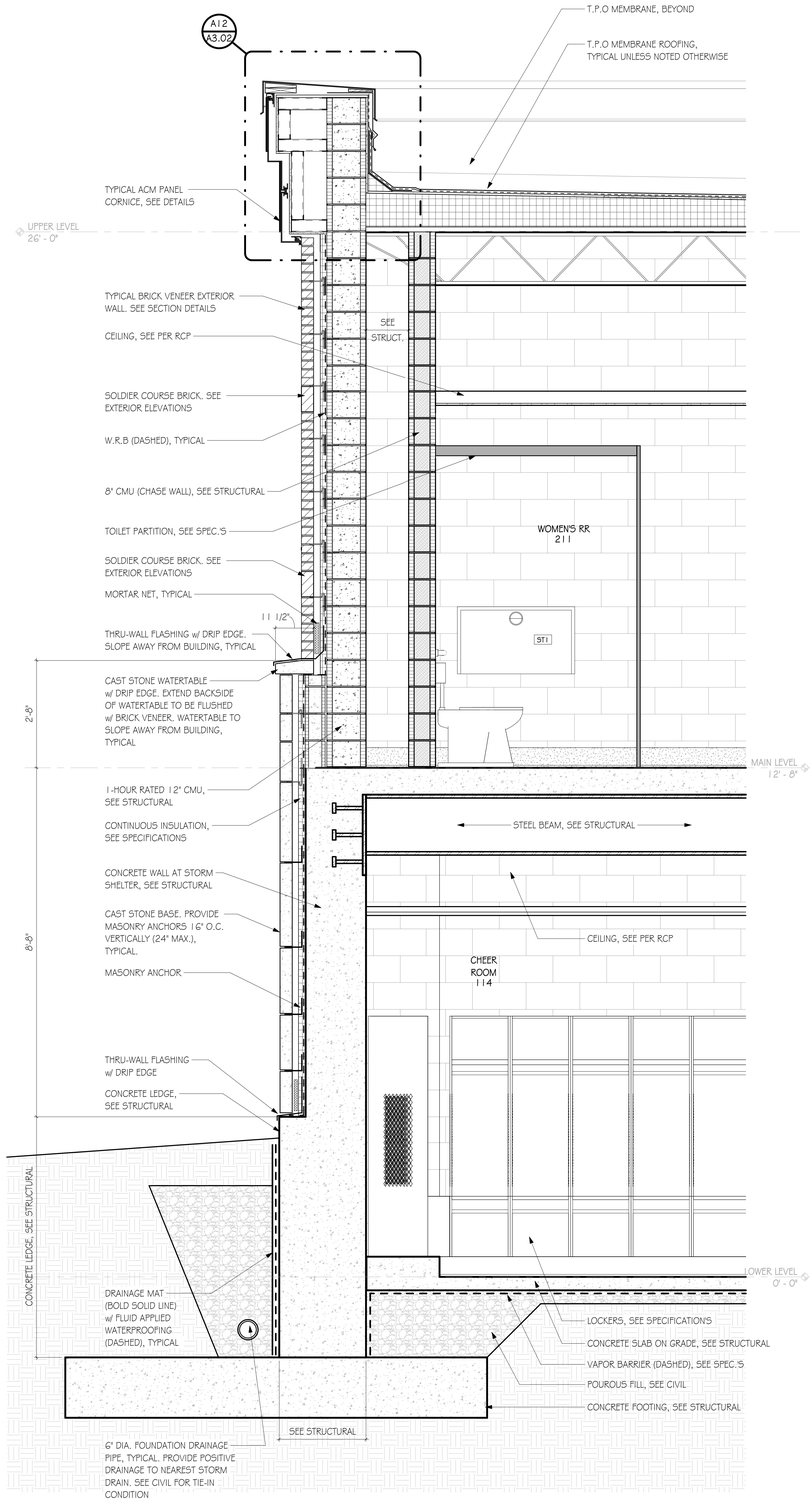
A5.13

11/13/2024 11:53:25 AM TEMPLATE VERSION: 2022.1



LOWER LEVEL - COVERED ENTRY & EXTERIOR STAIR

A6 SCALE: 3/4" = 1'-0"



STORM SHELTER - CAST STONE AT CHEER ROOM

A12 SCALE: 3/4" = 1'-0"

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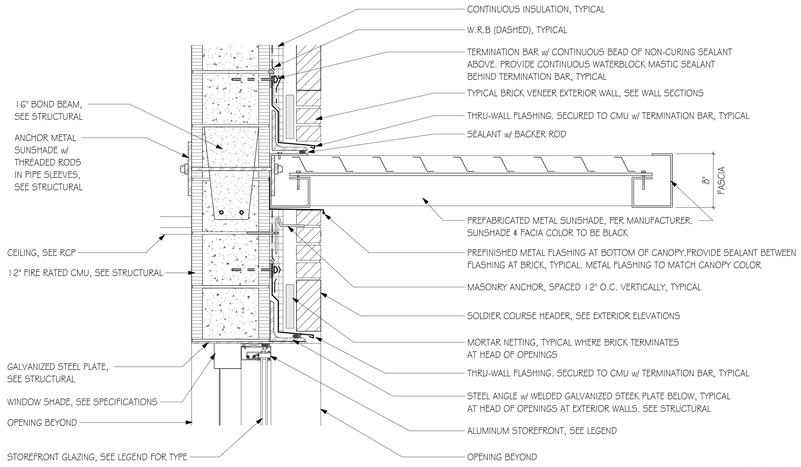
WALL SECTIONS

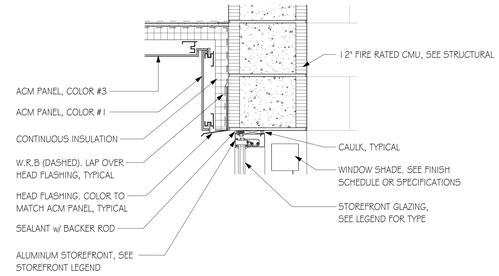
A5.14

11/18/2024 5:20:44 PM TEMPLATE VERSION: 2022.1



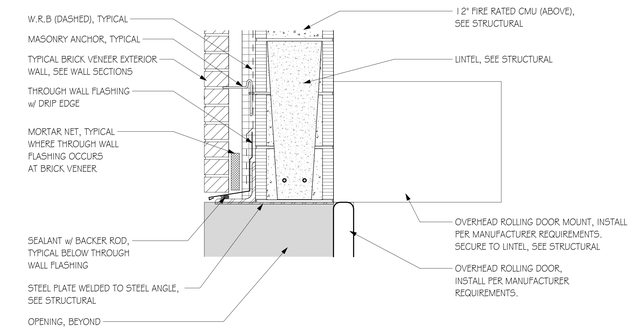
PREFABRICATED METAL SUNSHADE CONNECTION TO BLDG.

K2 SCALE: 11/2" = 1'-0"



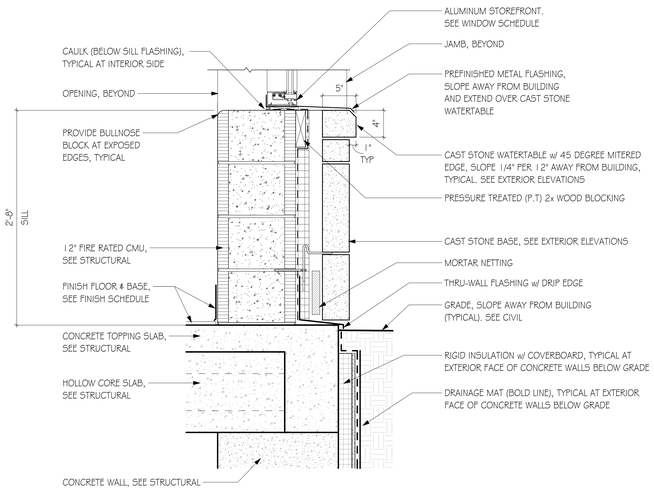
HEAD - EXTERIOR STOREFRONT AT FOUNDERS ROOM

L8 SCALE: 11/2" = 1'-0"



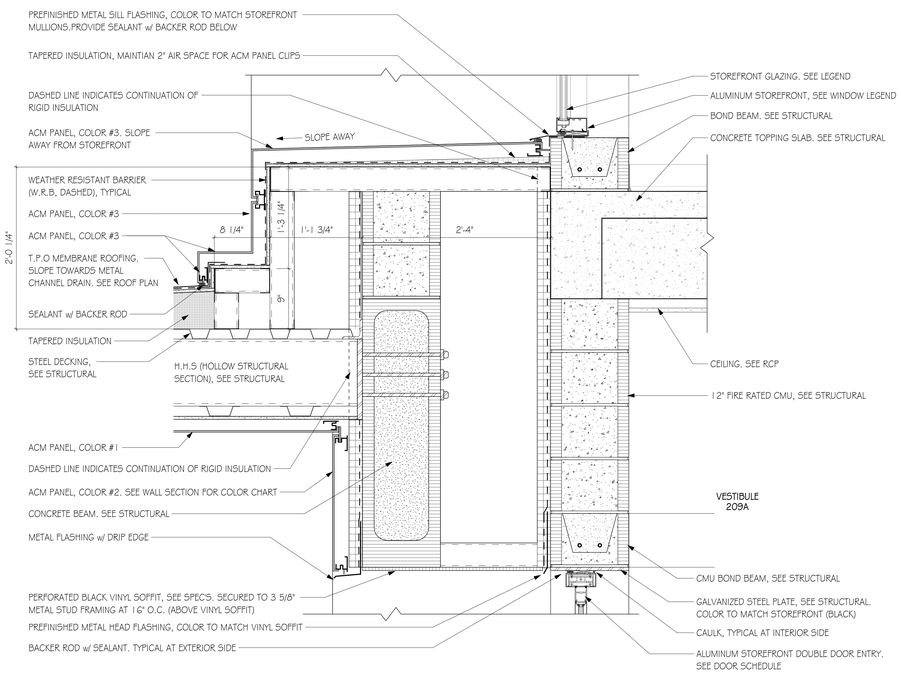
HEAD OF EXTERIOR OVERHEAD ROLLING DOOR

L12 SCALE: 11/2" = 1'-0"



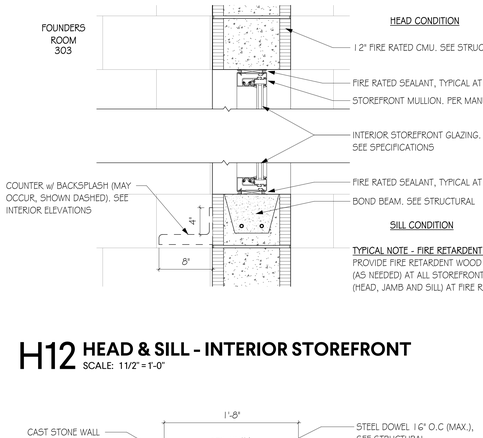
SILL - STOREFRONT AT BRICK VENEER

E2 SCALE: 11/2" = 1'-0"



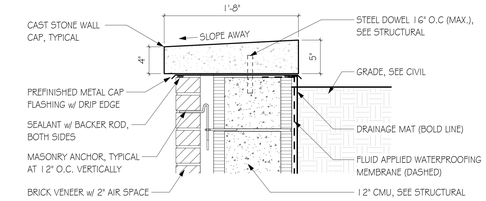
FRONT CANOPY CONNECTION TO BLDG.

E8 SCALE: 11/2" = 1'-0"



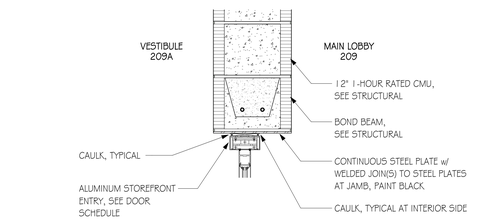
HEAD & SILL - INTERIOR STOREFRONT

H12 SCALE: 11/2" = 1'-0"



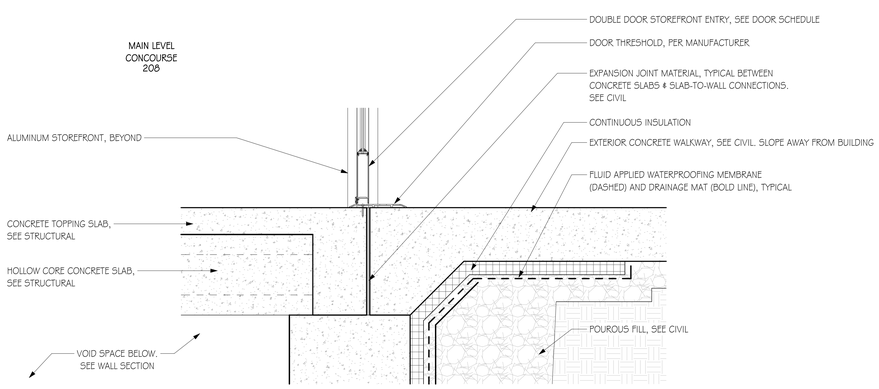
TYPICAL WALL CAP - PLANTER WALL

F12 SCALE: 11/2" = 1'-0"



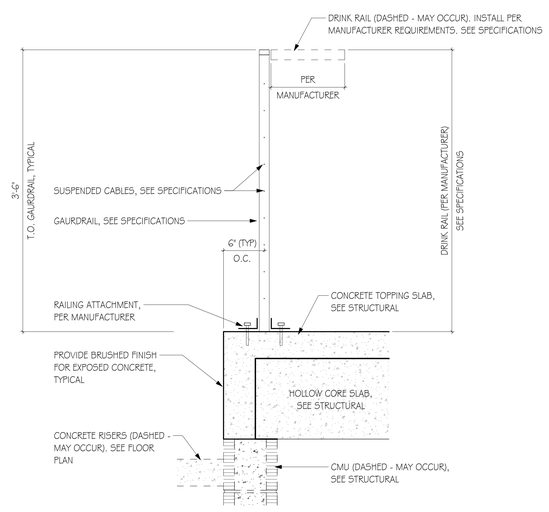
HEAD - INTERIOR STOREFRONT DOOR

D12 SCALE: 11/2" = 1'-0"



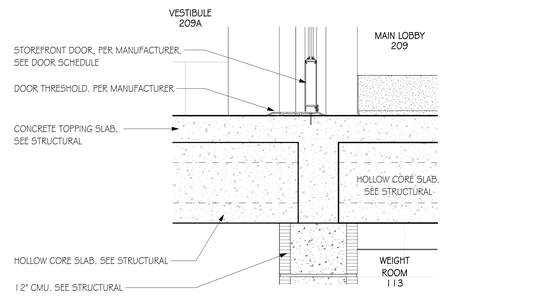
THRESHOLD - EXTERIOR STOREFRONT DOOR

A2 SCALE: 11/2" = 1'-0"



SLAB EDGE AT GYM / GUARDRAIL AT MAIN LEVEL CONCOURSE

A8 SCALE: 11/2" = 1'-0"



SILL - INTERIOR STOREFRONT DOOR

A12 SCALE: 11/2" = 1'-0"

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ISSUE | DATE
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DRAWN BY: Author
CHECKED BY: Checker

STATE of ALABAMA REGISTERED ARCHITECT
Jay W Purkey
9063
Owens Cross Roads, Alabama

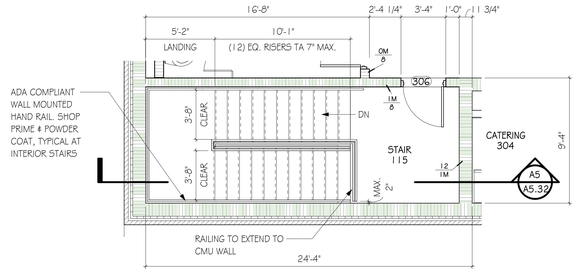
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE.
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

SECTION DETAILS

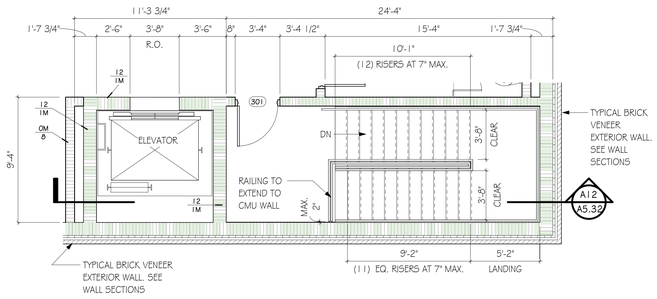
A5.21

TEMPLATE VERSION: 2022.1
11/18/2024 1:49:57 PM



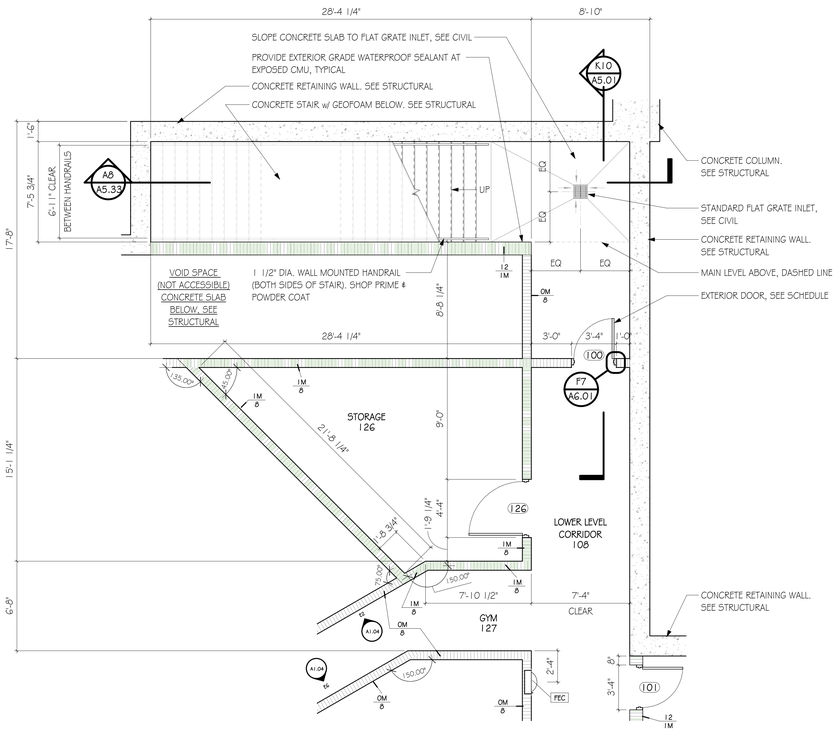
L8 UPPER LEVEL - STAIR 115

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



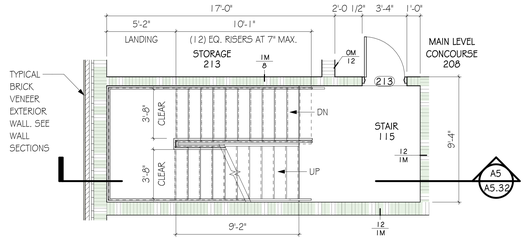
L12 UPPER LEVEL - STAIR 109 & ELEVATOR

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



F4 EXTERIOR STAIR AT LOWER LEVEL

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



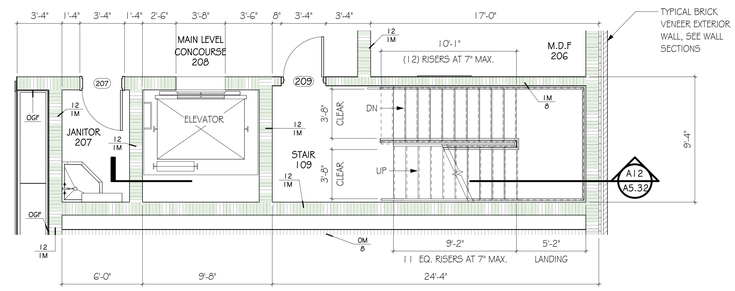
H8 MAIN LEVEL - STAIR 115

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

GENERAL NOTES - INTERIOR STAIR RAILINGS:

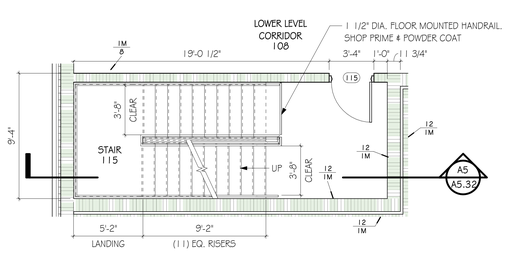
1. ALL HANDRAILS & GUARDRAILS AT INTERIOR STAIR LOCATIONS TO BE CONTINUOUS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS

2. ALL RAILINGS SHALL MEET ADA REQUIREMENTS AND APPLICABLE BUILDING CODE.



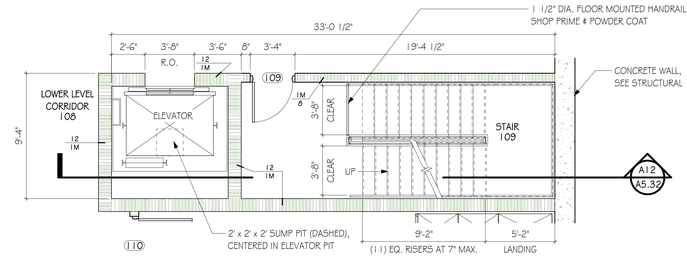
H12 MAIN LEVEL - STAIR 109 & ELEVATOR

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



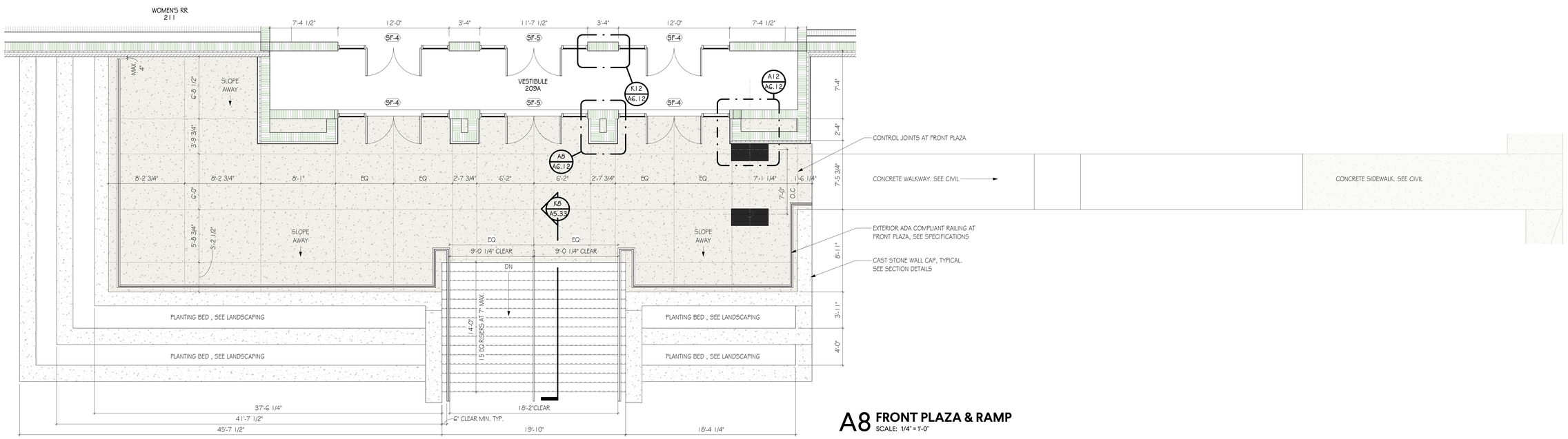
F8 LOWER LEVEL - STAIR 115

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



F12 LOWER LEVEL - STAIR 109 & ELEVATOR

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



A8 FRONT PLAZA & RAMP

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

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REGISTERED ARCHITECT

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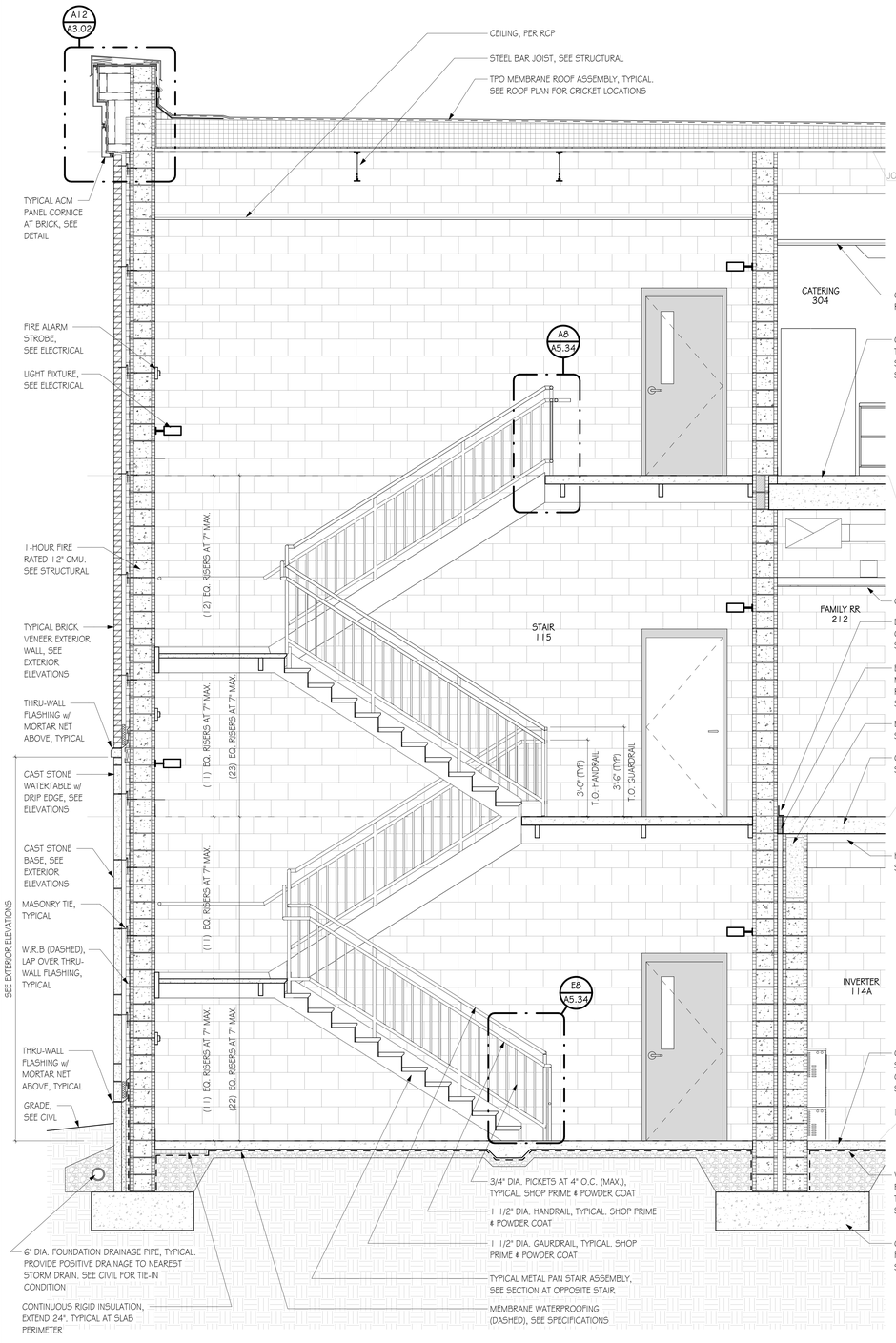
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

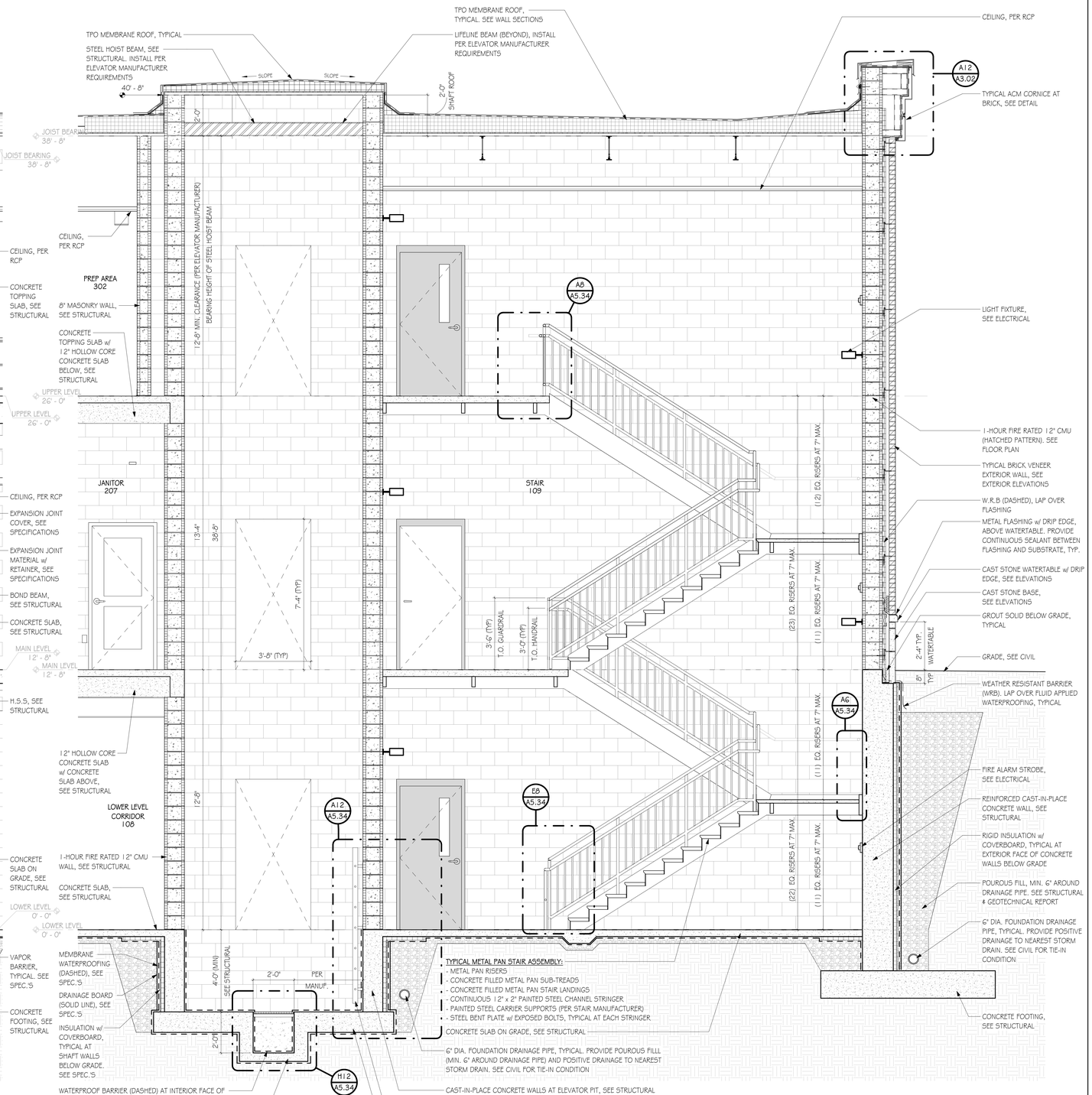
VERTICAL CIRCULATION

A5.31

11/13/2024 4:55:52 PM TEMPLATE VERSION: 2022.1



A5 SECTION - STAIR 115
SCALE: 1/2" = 1'-0"



A12 SECTION - STAIR 109 & ELEVATOR
SCALE: 1/2" = 1'-0"

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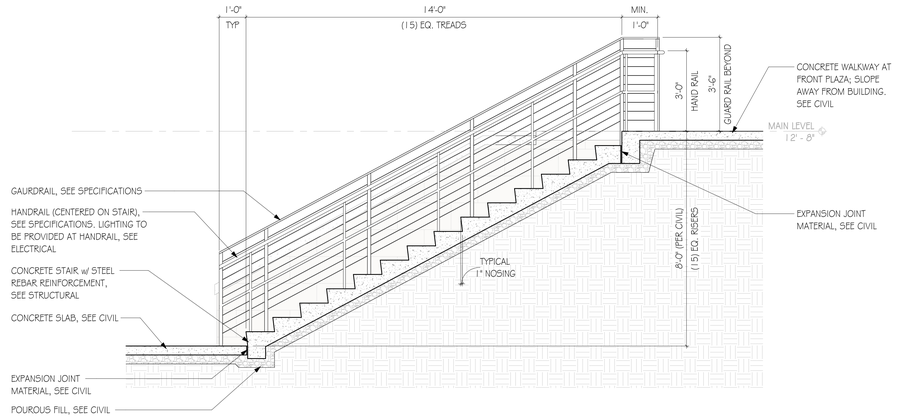
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

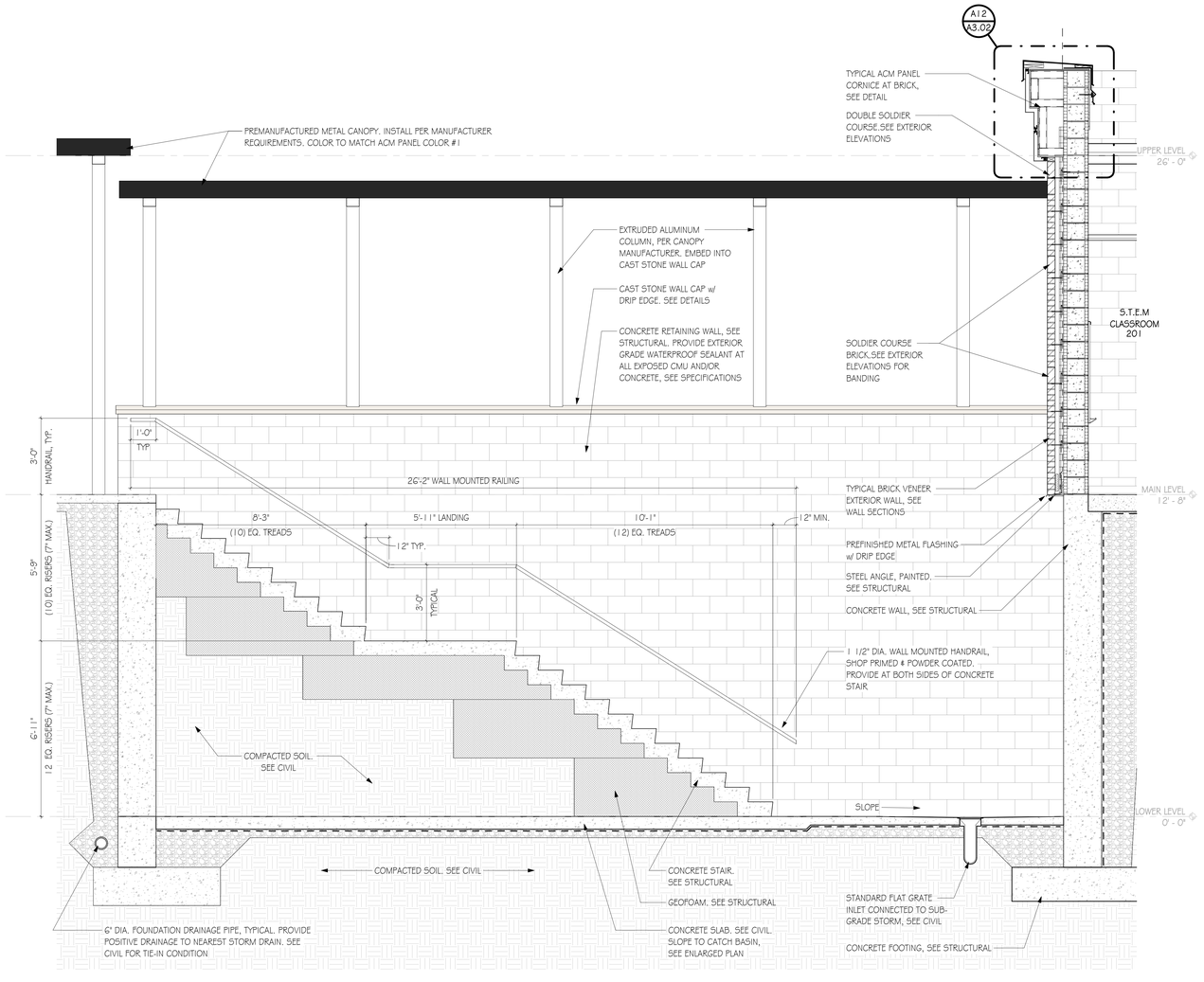
VERTICAL CIRCULATION

A5.32

11/14/2024 1:47:57 PM TEMPLATE VERSION: 2022.1



K8 FRONT PLAZA EXTERIOR STAIR
SCALE: 1/2" = 1'-0"



A8 EXTERIOR STAIR FROM LOWER LEVEL
SCALE: 1/2" = 1'-0"

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201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
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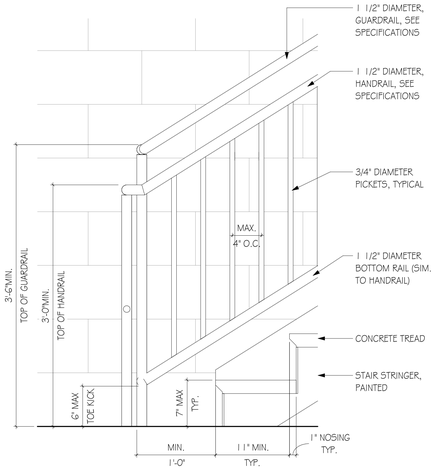
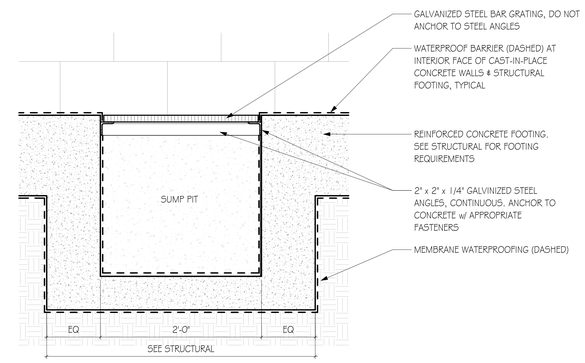
VERTICAL CIRCULATION

A5.33

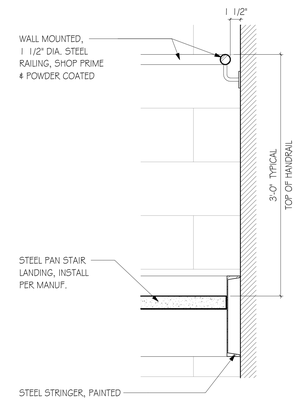
11/18/2024 11:44:17 AM TEMPLATE VERSION: 2022.1



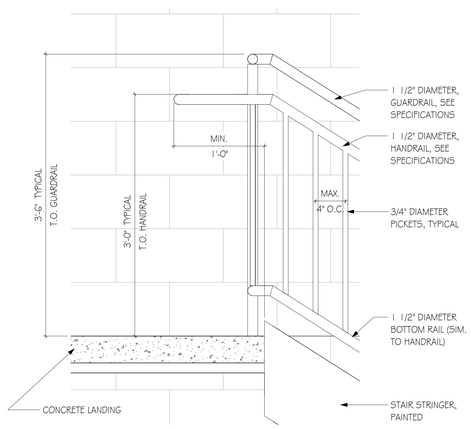
E8 STRINGER - BOTTOM CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



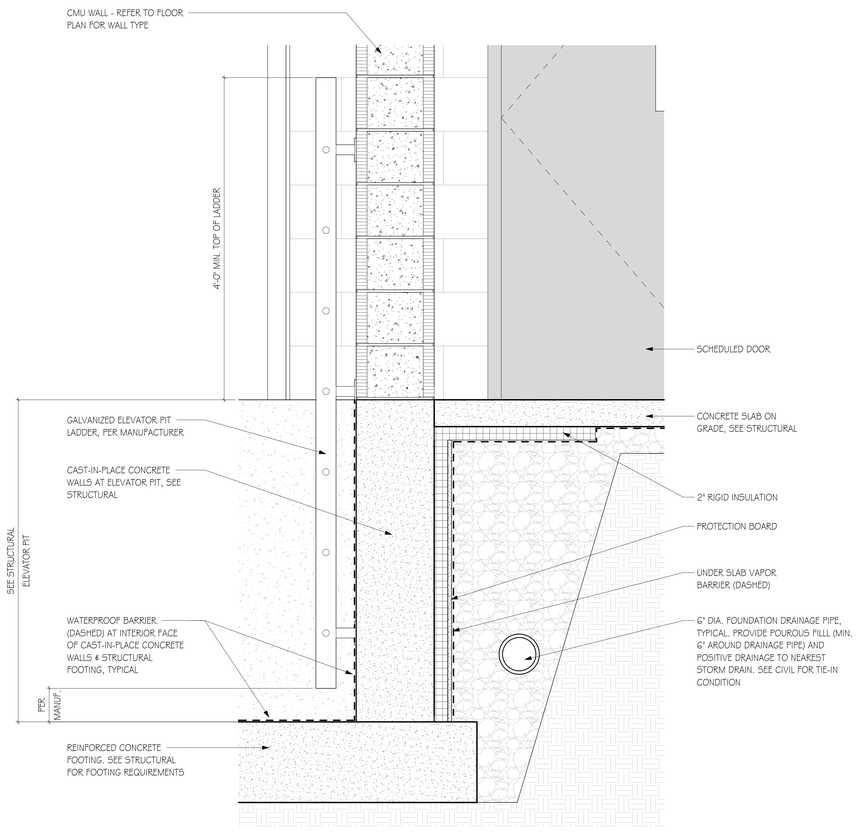
H12 SUMP PIT
SCALE: 1 1/2" = 1'-0"



A6 TYPICAL LANDING
SCALE: 1 1/2" = 1'-0"



A8 STRINGER - TOP CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



A12 ELEVATOR PIT - TYPICAL SILL
SCALE: 1 1/2" = 1'-0"

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
2014 5th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

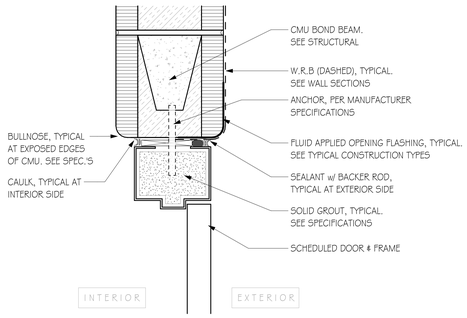
VERTICAL CIRCULATION

A5.34

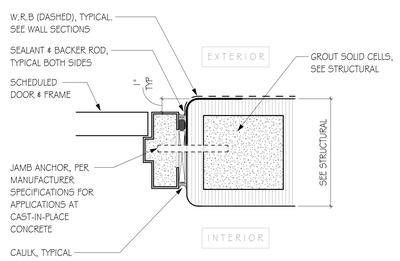
11/13/2024 11:54:38 AM TEMPLATE VERSION: 2022.1

DOOR SCHEDULE

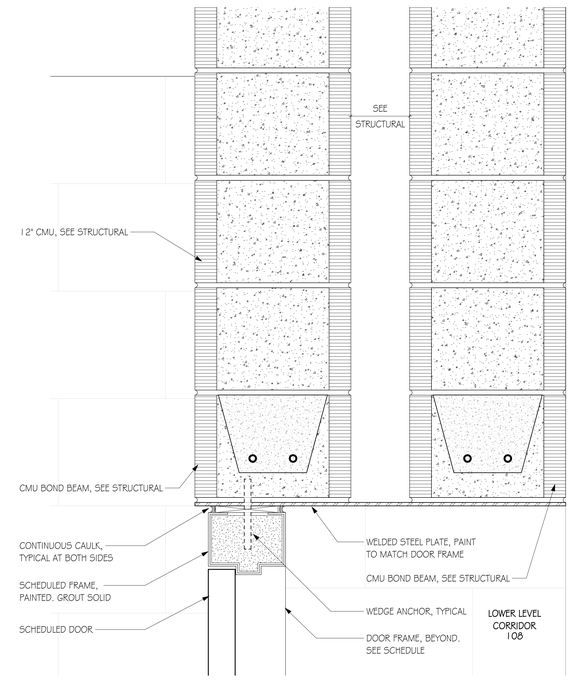
DOOR NUMBER	ROOM NAME	LOCATION: WIDTH	SIZE: HT	SIZE: THK	DOOR: DOOR TYPE	DOOR: MATERIAL	DOOR: GLASS OR LOUVER TYPE	FRAME: FRAME TYPE	FRAME: MATL	FRAME: GLASS TYPE	HARDWARE: HARDWARE SET NO.	HARDWARE: ELEC. COORD. HOLD OPEN	HARDWARE: ELEC. COORD. FIRE ALARM INTERFACE	HARDWARE: ELEC. COORD. ACCESS CONTROL	DETAILS: HEAD	DETAILS: JAMB	DETAILS: SILL	FIRE RATING	NUMBERED NOTES
100	LOWER LEVEL CORRIDOR	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G4	F13	HM		SET 3							45 MIN	
101	REFEREE ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
102	BOY'S VISITOR LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
103	TEAM ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
104	BOY'S HOME LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
105	BOY'S VARSITY COACH	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 12							45 MIN	
105A	RESTROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 12							45 MIN	
106	ELECTRICAL	6' - 0"	7' - 0"	1 3/4"	FG2	WD	G4	F13	HM		SET 7							45 MIN	
107	ELECTRICAL	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 10							45 MIN	
108	LOWER LEVEL CORRIDOR	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G4	F13	HM		SET 3								
109	STAIR	3' - 0"	7' - 0"	1 3/4"	N4	WD	G4	F13	HM		SET 6							45 MIN	
110	LOWER LEVEL CORRIDOR	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
111	TRAINING ROOM	4' - 0"	7' - 0"	1 3/4"	FG	HM	G1	F13	HM		SET 13								
111B	LOWER LEVEL CORRIDOR	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
111E	NORTH CONCESSIONS	8' - 0"	4' - 0"	3/4"	RS						SET 19								
112	LOWER LEVEL CORRIDOR	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 14							45 MIN	
112A	EQUIPMENT STORAGE	10' - 0"	8' - 0"	3/4"	RS						SET 19							45 MIN	FIRE RATED DOOR
113	WEIGHT ROOM	6' - 0"	7' - 0"	1 3/4"	FG2	WD	G4	F13	HM		SET 16							45 MIN	
114	LOWER LEVEL CORRIDOR	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							90 MIN	F.E.M.A Rated Tornado Door
114B	CHEER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 14							45 MIN	
114C	CHEER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 18							45 MIN	
115	LOWER LEVEL CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N4	WD	G4	F13	HM		SET 6							45 MIN	
116	GYM	6' - 0"	7' - 0"	1 3/4"	FG2	WD	G4	F13	HM		SET 8							45 MIN	
117	LOWER LEVEL CORRIDOR	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 11							45 MIN	
118	GIRL'S VARSITY COACH	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 12							45 MIN	
118B	GIRL'S VARSITY COACH	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 12							45 MIN	
119	GIRL'S HOME LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
120	VOLLEYBALL LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
121	GIRL'S VISITOR LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
122	RECEIVING	6' - 0"	7' - 0"	1 3/4"	FG2	WD	G4	F13	HM		SET 8							45 MIN	
123	FIRE RISER	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 4							45 MIN	
124	RECEIVING	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 3							45 MIN	
124A	RECEIVING	10' - 0"	10' - 0"	3/4"	RS						SET 19								FIRE RATED DOOR
125	STORAGE	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
126	STORAGE	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
127	INVERTER	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
200	MAIN LEVEL CONCOURSE	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G1	F1	HM		SET 15							45 MIN	
201	MAIN LEVEL CONCOURSE	6' - 0"	8' - 4"	1 3/4"	FG	HM	G1	F13	HM		SET 2							45 MIN	
202	MAIN LEVEL CONCOURSE	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G1	F1	HM		SET 15							45 MIN	
203	MAIN LEVEL CONCOURSE	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G1	F1	HM		SET 5							45 MIN	
204	NAIL SPA	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G1	F1	HM		SET 5							45 MIN	
205	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G1	F1	HM		SET 9							45 MIN	
206	MAIN LEVEL CONCOURSE	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
207	JANITOR	3' - 0"	7' - 0"	1 3/4"	FG2	WD	G1	F1	HM		SET 9							45 MIN	
208A	VESTIBULE	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
208B	VESTIBULE	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
208D	VESTIBULE	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
208E	MAIN LOBBY	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
208F	MAIN LOBBY	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
208G	MAIN LOBBY	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
209	STAIR	3' - 0"	7' - 0"	1 3/4"	N4	WD	G4	F13	HM		SET 6							45 MIN	
210	MAIN LEVEL CONCOURSE	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
210A	CONCESSIONS	11' - 0"	6' - 0"	3/4"	RS						SET 19								
212	FAMILY RR	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 17							45 MIN	
213	STAIR	3' - 0"	7' - 0"	1 3/4"	N4	WD	G4	F13	HM		SET 6							45 MIN	
214	STORAGE	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
215	MAIN LEVEL CONCOURSE	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
216	MAIN LEVEL CONCOURSE	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
217	MAIN LEVEL CONCOURSE	6' - 0"	8' - 6"	1 3/4"	FG	AL/GL	G1	SF/CW	AL		SET 1							45 MIN	
218	MAIN LEVEL CONCOURSE	4' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
218C	REFEREE ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
219	COSMETOLOGY LAUNDRY/STORAGE	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 9							45 MIN	
300	FOUNDERS ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM		F13	HM		SET 13							45 MIN	
301	STAIR	3' - 0"	7' - 0"	1 3/4"	N4	WD	G4	F13	HM		SET 6							45 MIN	



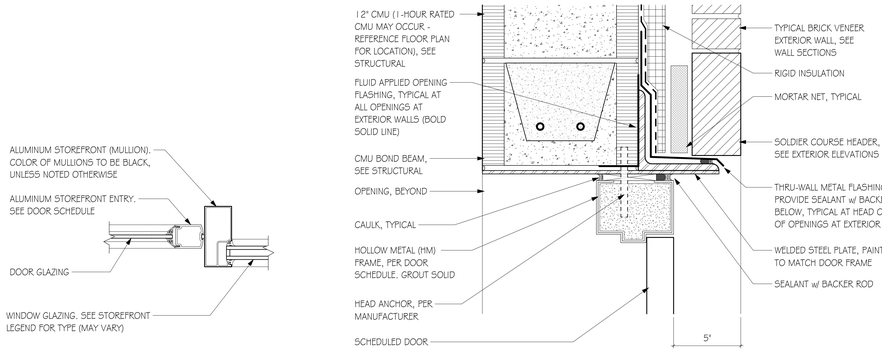
J7 HEAD - HM AT CMU
SCALE: 3" = 1'-0"



F7 JAMB - HM DOOR AT CMU
SCALE: 3" = 1'-0"

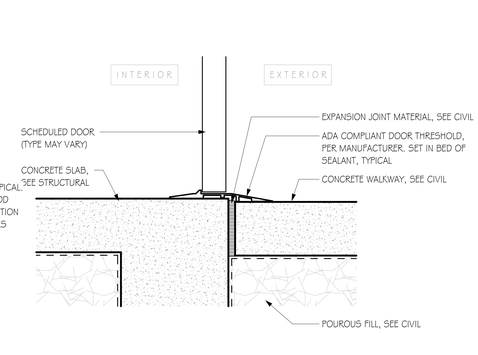


F12 HEAD - HM DOOR AT SHELTER
SCALE: 3" = 1'-0"

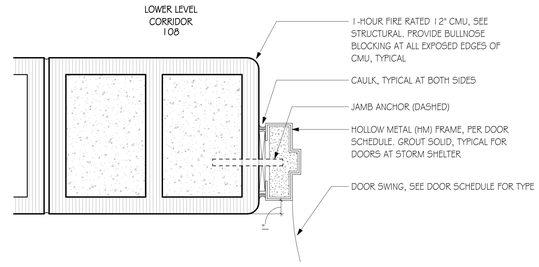


D1 JAMB - STOREFRONT DOOR
SCALE: 3" = 1'-0"

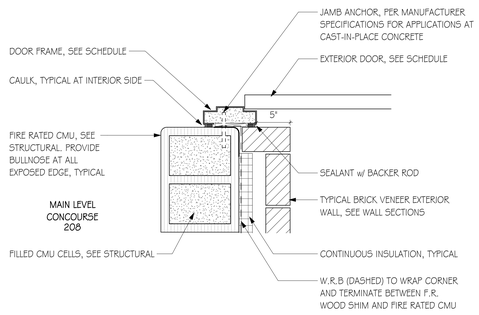
D4 HEAD - EXTERIOR DOOR AT BRICK
SCALE: 3" = 1'-0"



D7 THRESHOLD - EXTERIOR HM DOOR AT SLAB
SCALE: 3" = 1'-0"



D12 JAMB - HM DOOR AT SHELTER
SCALE: 3" = 1'-0"



A12 JAMB - EXTERIOR DOOR AT BRICK
SCALE: 1 1/2" = 1'-0"

DOOR NUMBERED NOTES

01 MAGNETIC HOLD-OPEN DEVICES
02 AUTOMATIC DOOR OPERATOR, SEE SPECIFICATION 08 7100
03 AUTOMATIC ENTRANCE DOORS, SEE SPECIFICATIONS
04 ALUMINUM-FRAMED ENTRANCE DOORS, SEE SPECIFICATIONS
05 ALL-GLASS ENTRANCE DOORS, SEE SPECIFICATIONS
06 ALUMINUM-FRAMED ICU/CCU DOOR, SEE SPECIFICATIONS
07 SLIDING ICU/CCU DOOR, SEE SPECIFICATIONS
08 SLIDING EXAM ROOM DOOR, SEE SPECIFICATIONS
09 OVERHEAD COILING DOOR, SEE SPECIFICATIONS
10 OVERHEAD COILING GRILLE, SEE SPECIFICATIONS
11 LEAD-LINED DOOR AND FRAME, SEE SPECIFICATIONS 08 1416 & 13 4900
12 RF DOOR TO BE PROVIDED COMPLETE WITH HARDWARE BY RF SHIELDING VENDOR
13 INTEGRAL BLINDS BETWEEN 2 PANES ULTRACLEAR GLASS (UPPER LITES ONLY)
14 PROVIDE OPAQUE FILM AT DOOR GLAZING
15 THERMAL RATED (INSULATED) ASSEMBLY
16 SOUND RATED DOOR ASSEMBLY. MATCH RATING OF PARTITION IN WHICH LOCATED
17 DOOR EDGE CONSTRUCTION: SEAMLESS
18 LEVEL 3 AND PHYSICAL PERFORMANCE LEVEL A (EXTRA HEAVY-DUTY)
19 EGRESS - EXIT ONLY DOOR
20 MECHANICAL KEYPAD LOCK. SEE SPECIFICATION 08 7100
21 STORM SHELTER DOOR
22 PROVIDE SMOKE SEALS AND POSITIVE LATCHING
23 PROVIDE POSITIVE LATCHING & LOCKSET. SEE HARDWARE SCHEDULE FOR FUNCTION
24 PROVIDE OVERALL DOOR WIDTH AS REQ'D FOR CLEAR DOOR OPNG TO BE 36" MIN.
25 PROVIDE OVERALL DOOR WIDTH AS REQ'D FOR CLEAR DOOR OPNG TO BE 42" MIN.
26 PROVIDE OVERALL DOOR WIDTH AS REQ'D FOR CLEAR DOOR OPNG TO BE 46" MIN.
27 PROVIDE OVERAL DOOR WIDTH AS REQ'D FOR CLEAR DOOR OPNG TO BE 48" MIN.
28 PROVIDE OVERALL DOOR WIDTH AS REQ'D FOR CLEAR DOOR OPNG TO BE 60" MIN.
29 PROVIDE OVERALL DOOR WIDTH AS REQ'D FOR CLEAR DOOR OPNG TO BE 72" MIN.

DOOR GENERAL NOTES

- ALL DOORS IN FIRE RATED WALLS TO RECEIEVE FIRE RATED HARDWARE AND CLOSERS, TYPICAL.

- ALL EGRESS DOORS TO RECEIVE PANIC HARDWARE AND CLOSERS, TYPICAL

1) GENERAL:
A. DOOR AND/OR FRAME CONSTRUCTION SHALL BE AS SPECIFIED UNLESS NOTED OTHERWISE.
B. ALL TYPES OF DOORS ARE REPRESENTED IN THIS SCHEDULE FOR CONVENIENCE. WHERE MORE DESCRIPTIVE INFORMATION MAY BE LOCATED ELSEWHERE, NOTATION IS MADE IN THE NUMBERED NOTES COLUMN. (E.G. ALUMINUM FRAMED ENTRANCE DOORS. SEE SPECIFICATIONS)
2) MATERIAL AND FINISH:
A. MATERIALS AND FINISHES INDICATED ON THE SCHEDULE ARE AS FOLLOWS:

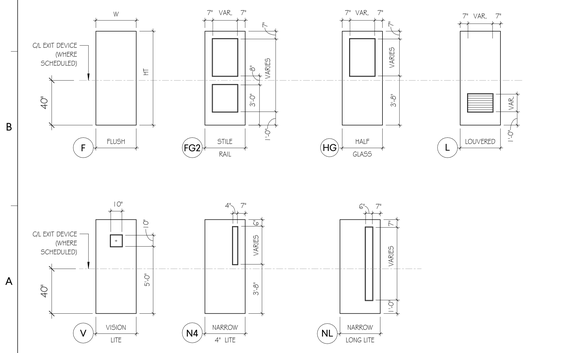
HM	HOLLOW METAL
ST	STEEL
ST/S	STEEL / STAINLESS OR STAINLESS CLAD
WD	SOLID CORE WOOD
WD/PL	WOOD / PLASTIC LAMINATE FACED
WD/IR	WOOD / IMPACT-RESISTANT VINYL-FACED
AL	ALUMINUM
GL	GLAZING/GLASS
PREFIN	PREFINISHED (OR FACTORY FINISHED)
PNT	PAINTED
STN	STAINED

3) GLASS:
A. GLASS TYPES INDICATED ON THE SCHEDULE ARE AS FOLLOWS (SEE SPECIFICATION SECTIONS 08 8000 'GLAZING' & 13 4900 'RADIATION PROTECTION'):

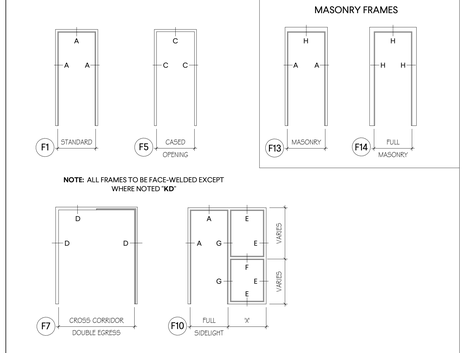
MONOLITHIC:		
G1	6.0mm	CLEAR, TEMPERED
G2	7.5mm	CLEAR, LAMINATED, INTERLAYER COLOR: CLEAR
G3	7.5mm	CLEAR, LAMINATED, INTERLAYER COLOR: ARCTIC SNOW
G4	8.0mm	CLEAR, FIRE-RATED CERAMIC GLAZING, MATCH RATING OF OPNG.
G5	4.0mm(x2)	ULTRACLEAR, TEMPERED, 2 LITES + INTEGRAL BLINDS
G6	12.5mm	SAFETY, LEAD BORATE GLASS, SEE SPECIFICATIONS
G7	12.5mm	SAFETY, LASER RATED, SEE SPECIFICATIONS
INSULATING:		
IG1	1 INCH	INSULATING, VISION LITE
IG2	1 INCH	INSULATING, SPANDREL LITE

4) LOUVERS:
A. DOOR LOUVER TYPES INDICATION ON THE SCHEDULE ARE AS FOLLOWS:
L1 A' W X B" H, SIGHT PROOF, WEATHER RESISTANT, WITH INSECT SCREEN
L2 A' W X B" H, LIGHT PROOF
5) DOOR HARDWARE:
A. "HARDWARE SET NUMBER" REFERS TO HARDWARE SETS SPECIFIED IN SPECIFICATION SECTION 08 7100 "DOOR HARDWARE".

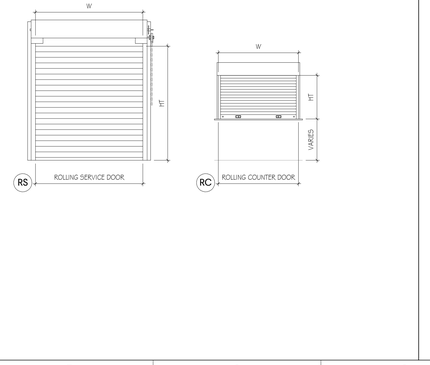
DOOR TYPES



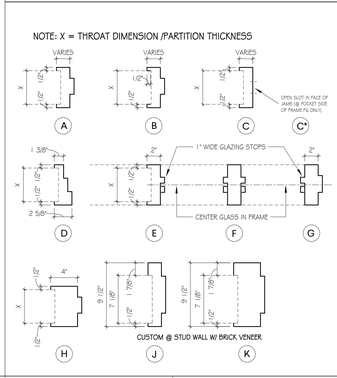
FRAME TYPES



SPECIALTY DOOR TYPES



FRAME PROFILES



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DCM FINAL SUBMITTAL	11.14.24

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CHECKED BY: Checker

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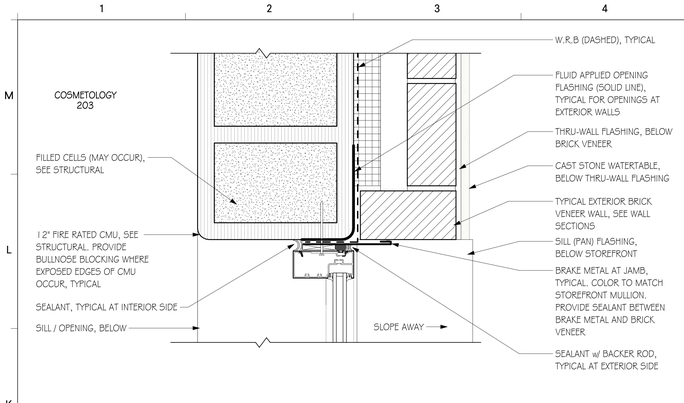
DCM # 20240548
GMC AHUN230009

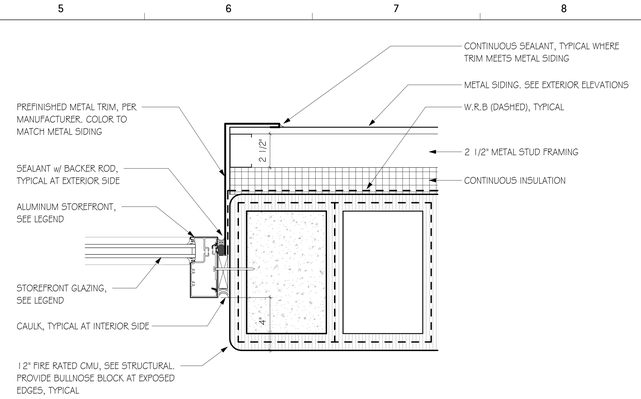
DOOR SCHEDULE, LEGEND, & NOTES

A6.01

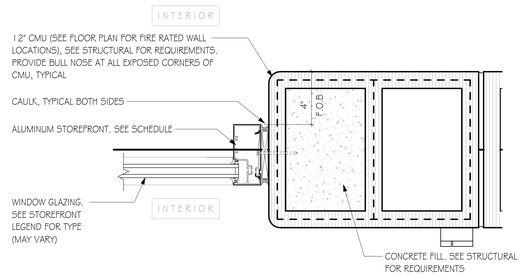
11/13/2024 11:54:56 AM TEMPLATE VERSION: 2022.1



K2 JAMB - STOREFRONT AT BRICK
SCALE: 3" = 1'-0"



K6 JAMB - STOREFRONT AT METAL SIDING
SCALE: 3" = 1'-0"



K10 JAMB - ALUMINUM STOREFRONT AT CMU
SCALE: 3" = 1'-0"

GLASS SCHEDULE

GLASS TYPES INDICATED ON THE SCHEDULE ARE AS FOLLOWS
(SEE SPECIFICATION SECTIONS 088000 'GLAZING' & 134900 'RADIATION PROTECTION'):

MONOLITHIC:

G1	6.0mm	CLEAR, TEMPERED
G2	7.5mm	CLEAR, LAMINATED, INTERLAYER COLOR: CLEAR
G3	7.5mm	CLEAR, LAMINATED, INTERLAYER COLOR: ARCTIC SNOW
G4	8.0mm	CLEAR, FIRE-RATED CERAMIC GLAZING, MATCH RATING OF OPNG.
G5	4.0mm	(x2) ULTRACLEAR, TEMPERED, 2 LITES + INTEGRAL BLINDS
G6	12.5mm	SAFETY, LEAD BORATE GLASS, SEE SPECIFICATIONS
G7	12.5mm	SAFETY, LASER RATED, SEE SPECIFICATIONS

INSULATING:

IG1	1 INCH	INSULATING, VISION LITE
IG2	1 INCH	INSULATING, SPANDREL LITE

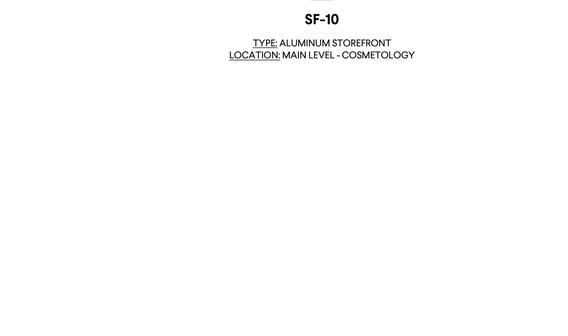
SPECIALTY GLASS:

RG1	RF-SHIELDED GLASS AT MRI ROOM TO BE PROVIDED UNDER RF-SHIELDED ENCLOSURE PACKAGE

GLAZING LEGEND:

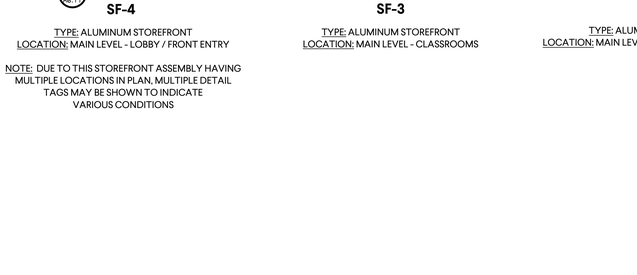
TYPICAL INTERIOR GLAZING (SEE SPECIFICATIONS)

TYPICAL EXTERIOR GLAZING (SEE SPECIFICATIONS)



G2 JAMB - INTERIOR STOREFRONT
SCALE: 3" = 1'-0"

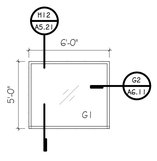
G6 SILL - STOREFRONT AT INTERIOR S.O.G
SCALE: 3" = 1'-0"



G10 SILL - STOREFRONT AT EXTERIOR S.O.G
SCALE: 3" = 1'-0"

STOREFRONT GENERAL NOTES:

1. ALL STOREFRONT MULLIONS (AND DOORS LOCATED IN STOREFRONT ASSEMBLIES) TO RECEIVE BLACK POWDER COATED FINISH. EXTERIOR SEALANT AND METAL FLASHING AT STOREFRONT TO MATCH FINSH COLOR OF MULLIONS.
2. STOREFRONT ASSEMBLIES SHOWING MULTIPLE SECTION DETAIL TAGS OCCUR AT VARIOUS LOCATIONS. SEE FLOOR PLAN FOR STOREFRONT LOCATION(S)



TAG:

SF-10

TYPE: ALUMINUM STOREFRONT
LOCATION: MAIN LEVEL - COSMETOLOGY

TAG:

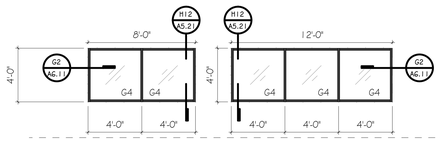
SF-6

TYPE: ALUMINUM STOREFRONT
LOCATION: UPPER LEVEL - FOUNDERS ROOM

TAG:

SF-7

TYPE: ALUMINUM STOREFRONT
LOCATION: UPPER LEVEL - FOUNDERS ROOM



NOTE: PROVIDE FIRE RATED GLAZING FOR 1-HOUR RATED WALL LOCATIONS

TAG:

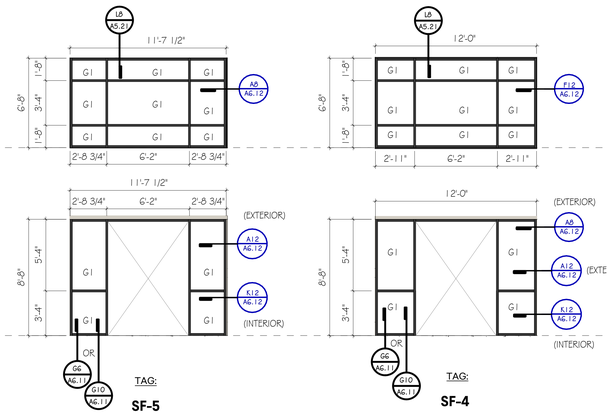
SF-9

TYPE: ALUMINUM STOREFRONT
LOCATION: UPPER LEVEL - FOUNDERS ROOM

TAG:

SF-8

TYPE: ALUMINUM STOREFRONT
LOCATION: UPPER LEVEL - FOUNDERS ROOM



TAG:

SF-5

TYPE: ALUMINUM STOREFRONT
LOCATION: MAIN LEVEL - LOBBY / FRONT ENTRY

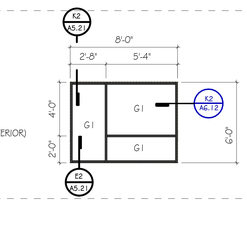
NOTE: DUE TO THIS STOREFRONT ASSEMBLY HAVING MULTIPLE LOCATIONS IN PLAN, MULTIPLE DETAIL TAGS MAY BE SHOWN TO INDICATE VARIOUS CONDITIONS

TAG:

SF-4

TYPE: ALUMINUM STOREFRONT
LOCATION: MAIN LEVEL - LOBBY / FRONT ENTRY

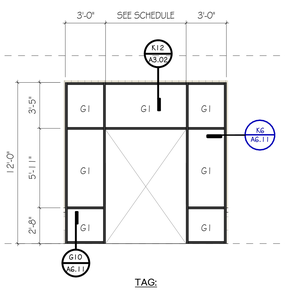
NOTE: DUE TO THIS STOREFRONT ASSEMBLY HAVING MULTIPLE LOCATIONS IN PLAN, MULTIPLE DETAIL TAGS MAY BE SHOWN TO INDICATE VARIOUS CONDITIONS



TAG:

SF-3

TYPE: ALUMINUM STOREFRONT
LOCATION: MAIN LEVEL - CLASSROOMS



TAG:

SF-2

TYPE: ALUMINUM STOREFRONT
LOCATION: MAIN LEVEL CONCOURSE - REAR ENTRY

UPPER LEVEL

MAIN LEVEL

LOWER LEVEL

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FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

STOREFRONT LEGEND & DETAILS

A6.11

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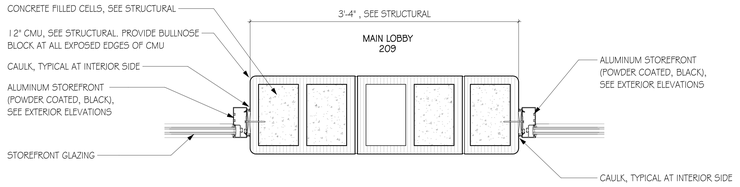
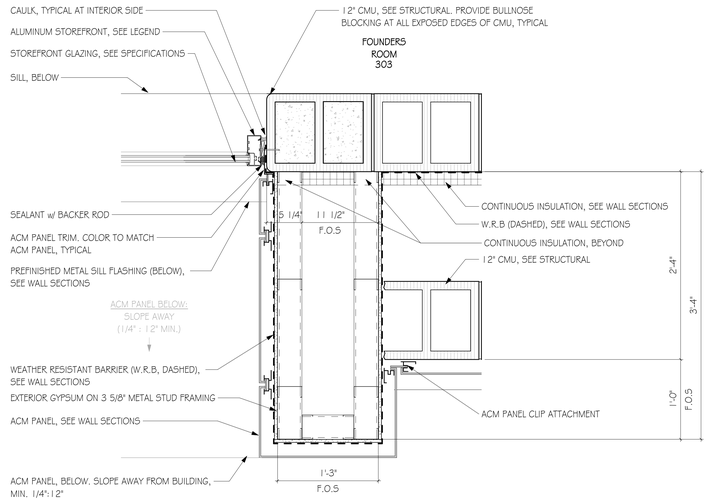
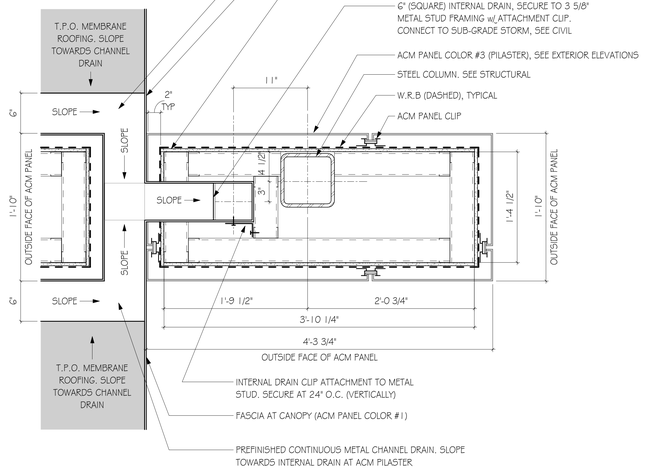


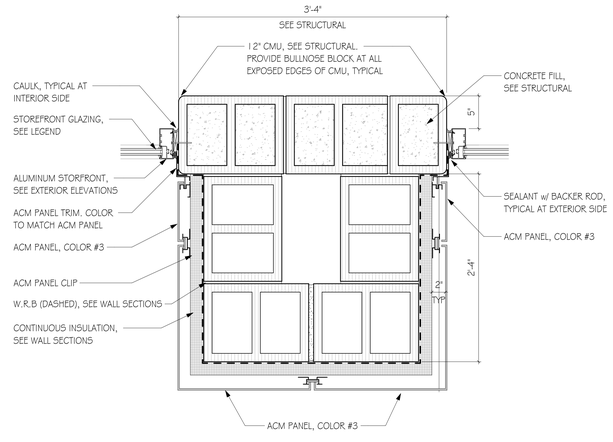
K12 CMU PILASTER AT VESTIBULE
SCALE: 11/2" = 1'-0"



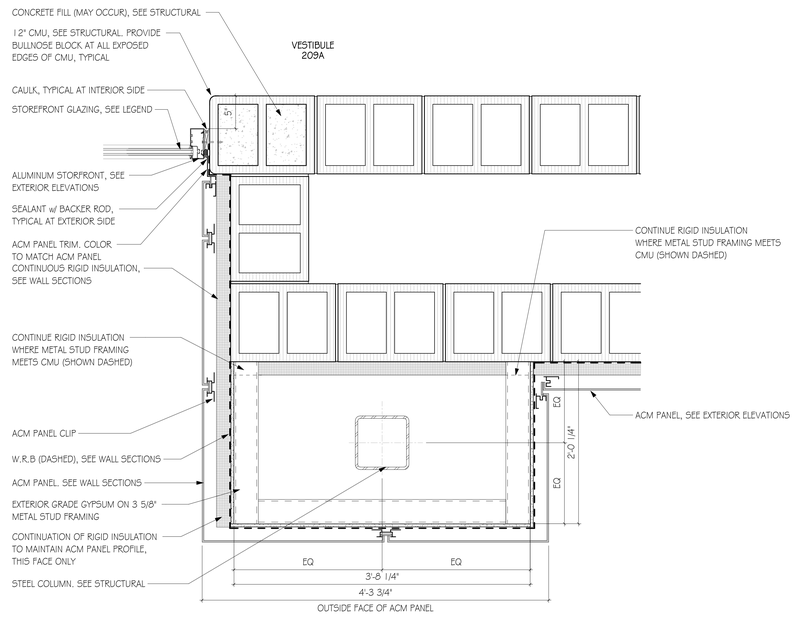
JAMB - STOREFRONT AT ACM PANEL
F12 WINDOW SURROUND
SCALE: 11/2" = 1'-0"



A2 ACM PANEL PILASTER AT FRONT PLAZA
SCALE: 11/2" = 1'-0"



A8 JAMB - STOREFRONT AT CMU COLUMN
SCALE: 11/2" = 1'-0"



A12 JAMB - ACM AT FRONT ENTRY
SCALE: 11/2" = 1'-0"

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STOREFRONT DETAILS

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
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FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

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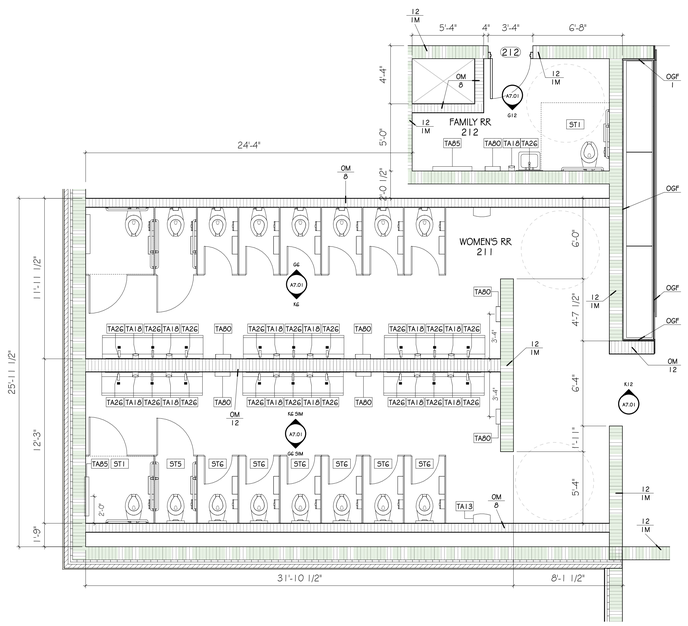
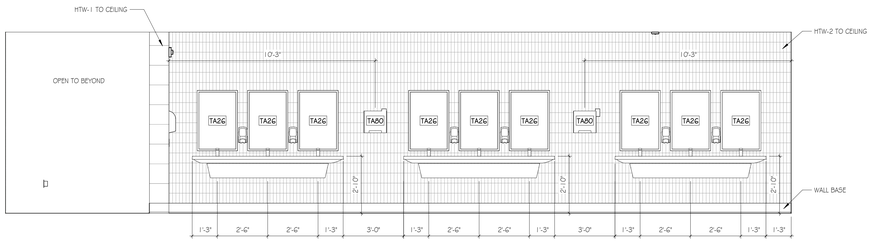
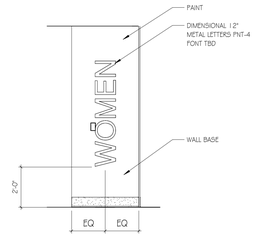


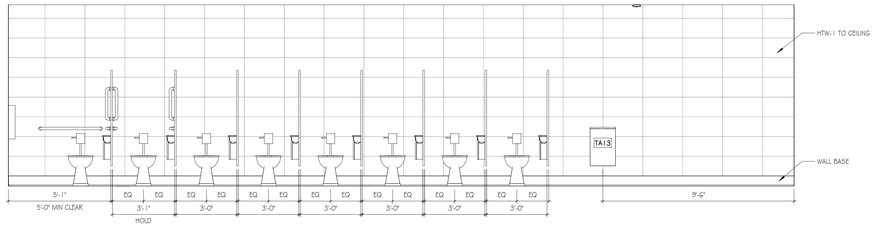
G2 WOMEN'S RESTROOM 211 & FAMILY RR 212
SCALE: 1/4" = 1'-0"



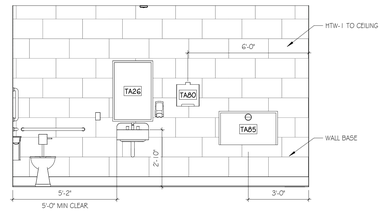
K6 WOMEN'S RESTROOM 211 - SINK WALL
SCALE: 3/8" = 1'-0"



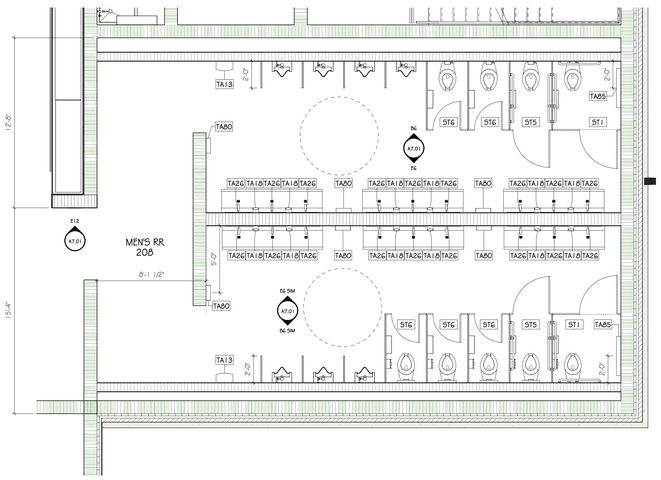
K12 WOMEN'S RR 211 - ENTRY
SCALE: 3/8" = 1'-0"



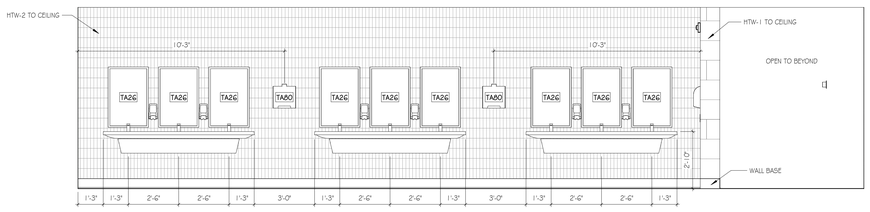
G6 WOMEN'S RR 211 - TOILET WALL
SCALE: 3/8" = 1'-0"



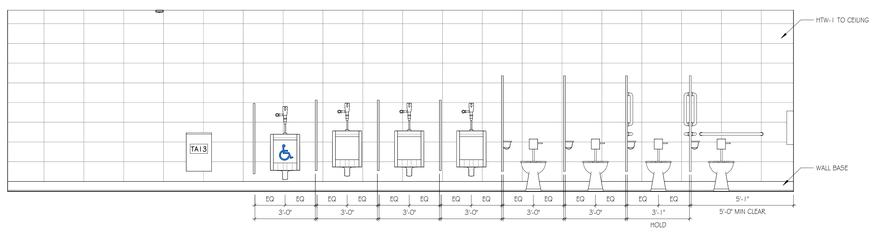
G12 FAMILY RESTROOM 212
SCALE: 3/8" = 1'-0"



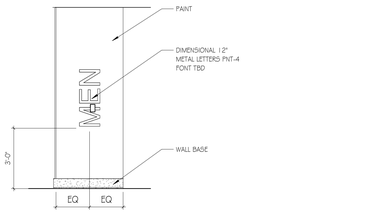
B2 MEN'S RESTROOM 208
SCALE: 1/4" = 1'-0"



E6 MEN'S RESTROOM 208 - SINK WALL
SCALE: 3/8" = 1'-0"



B6 MEN'S RESTROOM 208 - TOILET WALL
SCALE: 3/8" = 1'-0"



E12 MEN'S RR 208 - ENTRY
SCALE: 3/8" = 1'-0"

SPECIALTY EQUIPMENT SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
510	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
512	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
514	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
515	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
516	BEVERAGE COOLER	OFOI
517	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
523	24" WARMING DRAWER	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

TOILET ACCESSORIES SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
TA01	TOILET TISSUE DISP	OFCI
TA13	WASTE RECEPTACLE, SURFACE MOUNT, LARGE	CFCI
TA18	SOAP DISPENSER	OFCI
TA22	24" HORIZONTAL GRAB BAR	CFCI
TA23	18" HORIZONTAL GRAB BAR	CFCI
TA24	36" HORIZONTAL GRAB BAR	CFCI
TA25	42" HORIZONTAL GRAB BAR	CFCI
TA26	24" FRAMED MIRROR	CFCI
TA33	ROBE HOOK (ADA FRONT APPROACH)	CFCI
TA36	SANITARY NAPKIN DISPOSAL	CFCI
TA41	HEAVY DUTY SHOWER ROD	CFCI
TA42	SHOWER CURTAIN	CFCI
TA44	SHOWER SEAT - FOLDING, RECTANGULAR	CFCI
TA60	JANITORIAL SHELF	CFCI
TA80	WARM AIR HAND DRYER	CFCI
TA85	DIAPER CHANGING STATION, SURFACE-MOUNT	CFCI

GMC

Goodwyn Mills Cawood, LLC
2400 5th Avenue South, Suite 200
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GMCNETWORK.COM

ISSUE | DATE
DCM FINAL SUBMITTAL | 11.14.24

DRAWN BY: Author
CHECKED BY: Checker

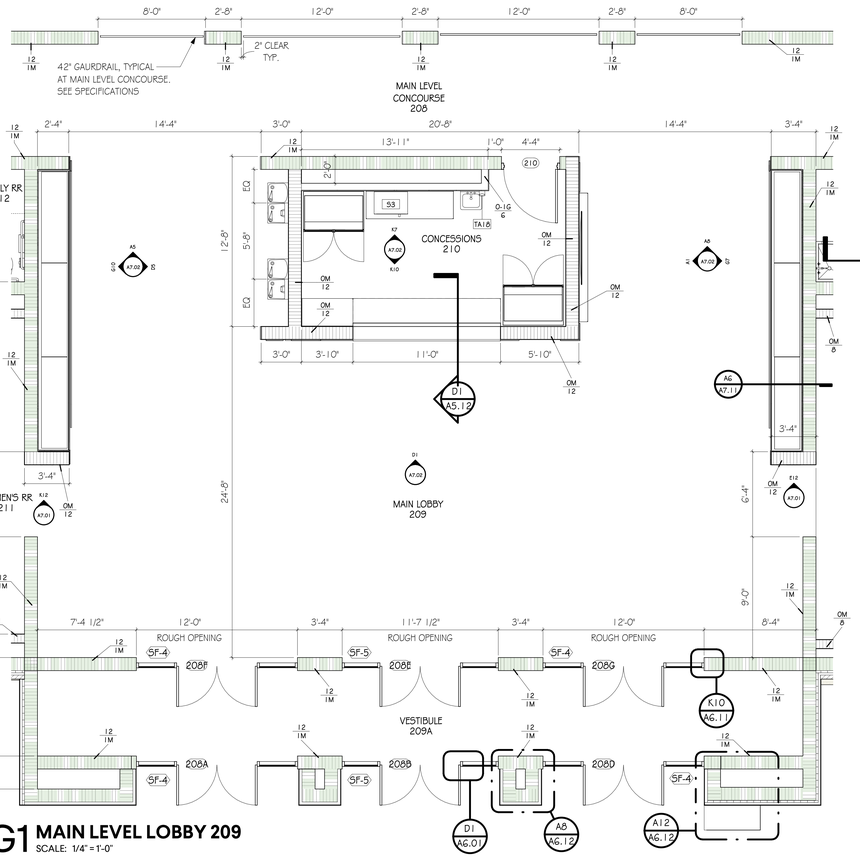
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC: AHUN230009

INTERIOR ELEVATIONS - MAIN LEVEL RESTROOMS

A7.01

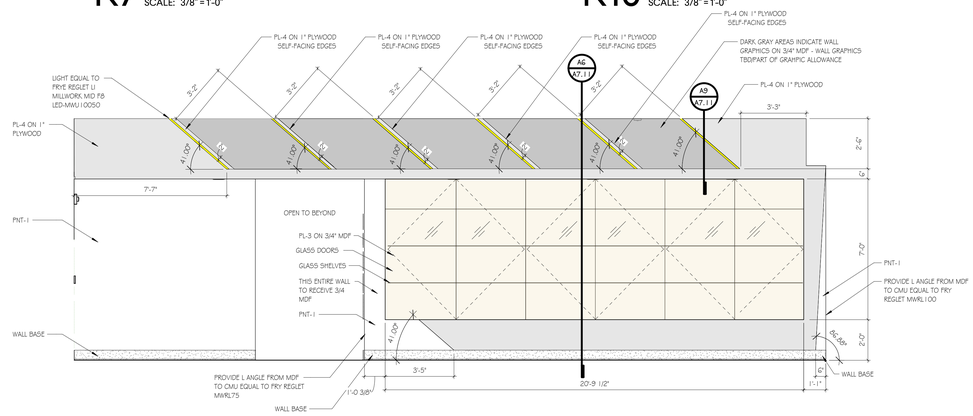
TEMPLATE VERSION: 2022.1
11/18/2024 6:21:09 PM



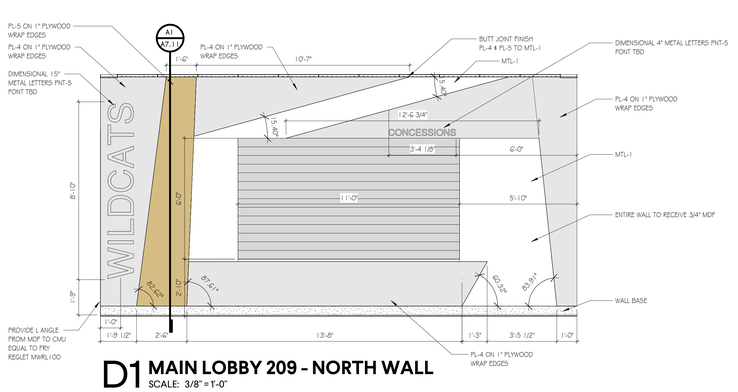
G1 MAIN LEVEL LOBBY 209
SCALE: 1/4" = 1'-0"

K7 CONCESSIONS 210 - NORTH WALL
SCALE: 3/8" = 1'-0"

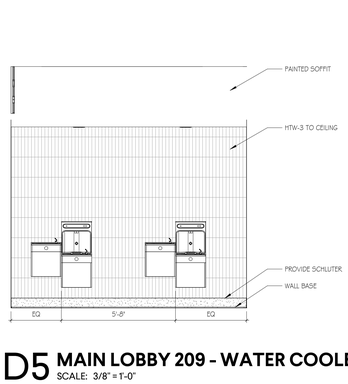
K10 CONCESSIONS 210 - SOUTH WALL
SCALE: 3/8" = 1'-0"



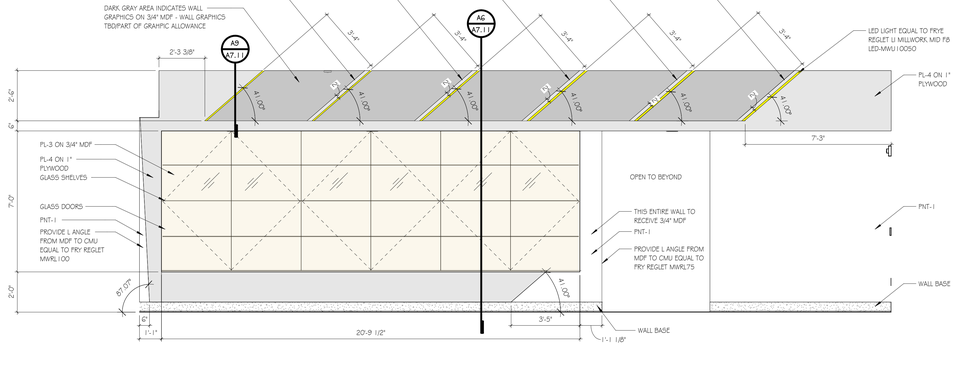
G10 MAIN LOBBY 209 - WEST TROPHY CASE
SCALE: 3/8" = 1'-0"



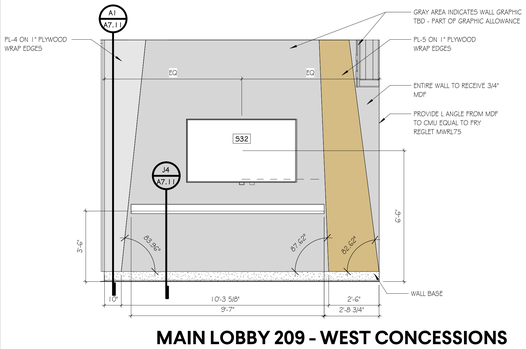
D1 MAIN LOBBY 209 - NORTH WALL
SCALE: 3/8" = 1'-0"



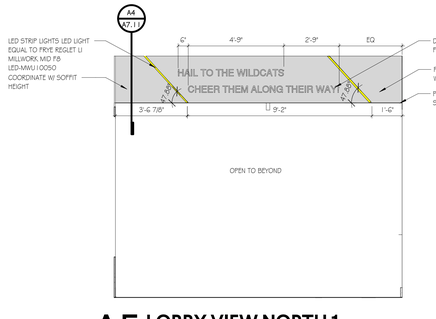
D5 MAIN LOBBY 209 - WATER COOLER
SCALE: 3/8" = 1'-0"



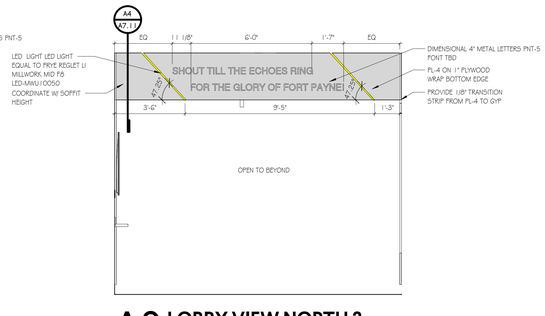
G7 MAIN LOBBY 209 - EAST TROPHY CASE
SCALE: 3/8" = 1'-0"



A1 WALL
MAIN LOBBY 209 - WEST CONCESSIONS
SCALE: 3/8" = 1'-0"



A5 LOBBY VIEW NORTH 1
SCALE: 3/8" = 1'-0"



A8 LOBBY VIEW NORTH 2
SCALE: 3/8" = 1'-0"

SPECIALTY EQUIPMENT SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
S10	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
S12	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
S14	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
S15	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
S16	BEVERAGE COOLER	OFOI
S17	VARSITY SCOREBOARD5 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
S23	24" WARMING DRAWER	CFCI
S32	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

GMC
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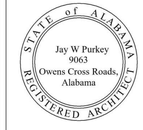
DCM FINAL SUBMITTAL | 11.14.24

DRAWN BY: Author
CHECKED BY: Checker



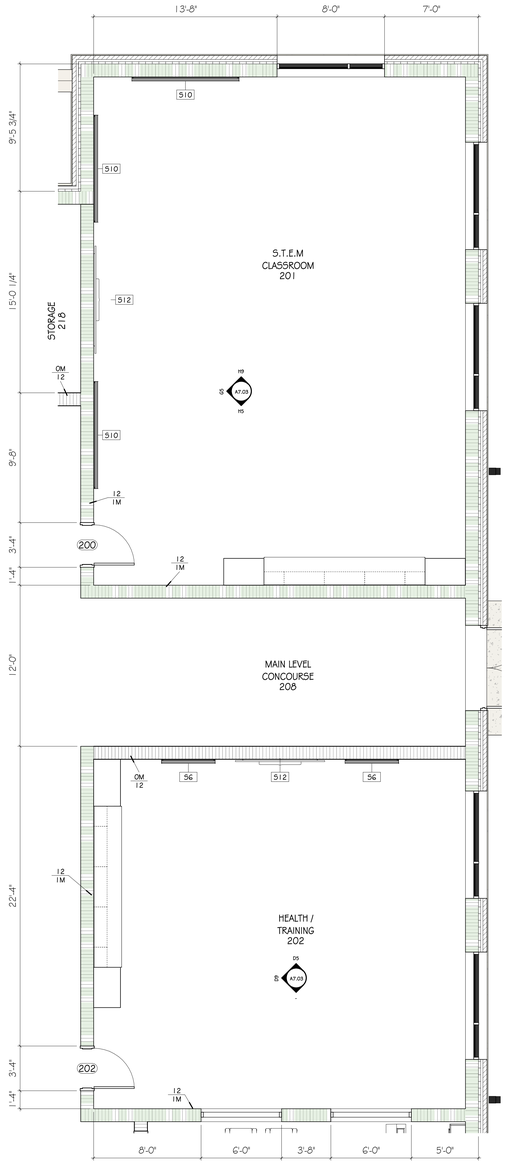
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

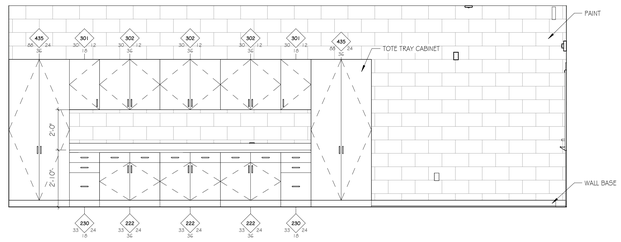
INTERIOR ELEVATIONS - MAIN LEVEL LOBBY

A7.02

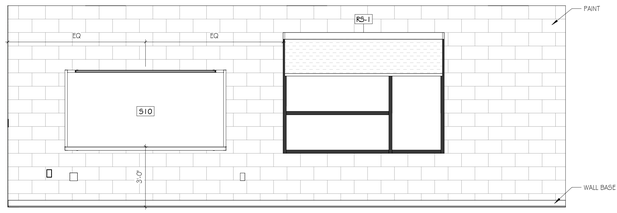
TEMPLATE VERSION: 2022.1
11/18/2024 6:21:25 PM



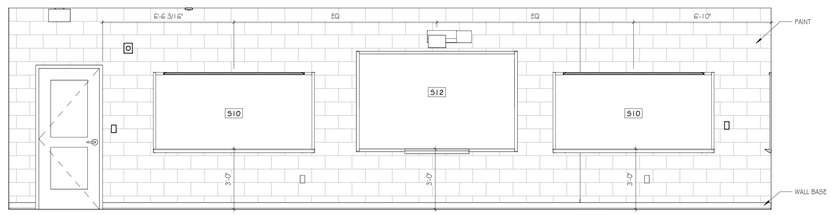
D1 MAIN LEVEL - CLASSROOMS 1
SCALE: 1/4" = 1'-0"



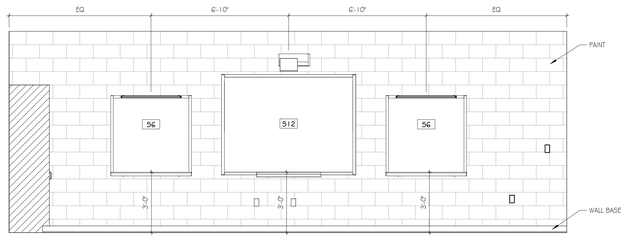
H5 STEM CLASSROOM 201 - SOUTH
SCALE: 3/8" = 1'-0"



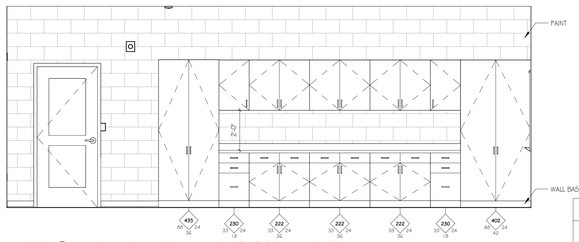
H9 STEM CLASSROOM 201 NORTH
SCALE: 3/8" = 1'-0"



G5 STEM CLASSROOM 201 - WEST
SCALE: 3/8" = 1'-0"

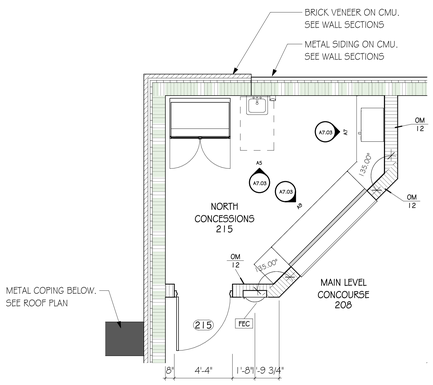


D5 HEALTH/TRAINING 202 - NORTH
SCALE: 3/8" = 1'-0"



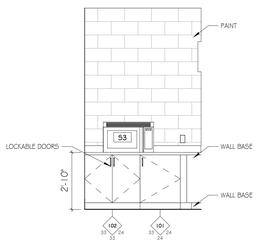
D9 HEALTH/TRAINING 202 - WEST
SCALE: 3/8" = 1'-0"

CASEWORK SCHEDULE		
NOTE: CABINET DESIGN SERIES (CDS) NUMBERS BASED ON AWI STANDARDS EDITION 2		
CDS #	CASEWORK TYPE	DESCRIPTION
100	BASE CAB	OPEN W/ ADJUSTABLE SHELVES
101	BASE CAB	SGL DOOR
102	BASE CAB	DBL DOOR
188	BASE CAB	DBL DOOR
222	BASE CAB	DBL DOORS / DBL DRWRS
230	BASE CAB	3 FILES
254	BASE CAB	4 FILES
301	WALL CAB	SGL DOOR
302	WALL CAB	DBL DOORS
402	TALL STG	DBL DOOR
435	TOTE TRAY CABINET	DBL DOOR
ADA	BASE CAB	ADA SINK

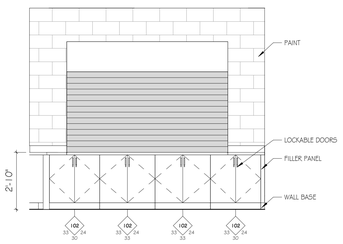


A1 NORTH CONCESSIONS 215
SCALE: 1/4" = 1'-0"

A5 NORTH CONCESSIONS - NORTH
SCALE: 3/8" = 1'-0"



A7 NORTH CONCESSIONS EAST
SCALE: 3/8" = 1'-0"



A9 NORTH CONCESSIONS - SOUTHEAST
SCALE: 3/8" = 1'-0"

SPECIALTY EQUIPMENT SCHEDULE		
TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
510	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
512	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
514	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
515	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
516	BEVERAGE COOLER	OFOI
517	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
523	24" WARMING DRAWER	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

GMC

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2400 5th Avenue South, Suite 200
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GMCNETWORK.COM

ISSUE | DATE
DCM FINAL SUBMITTAL | 11.14.24

DRAWN BY: Author
CHECKED BY: Checker

Jay W Purkey
9063
Owens Cross Roads, Alabama
STATE of ALABAMA REGISTERED ARCHITECT

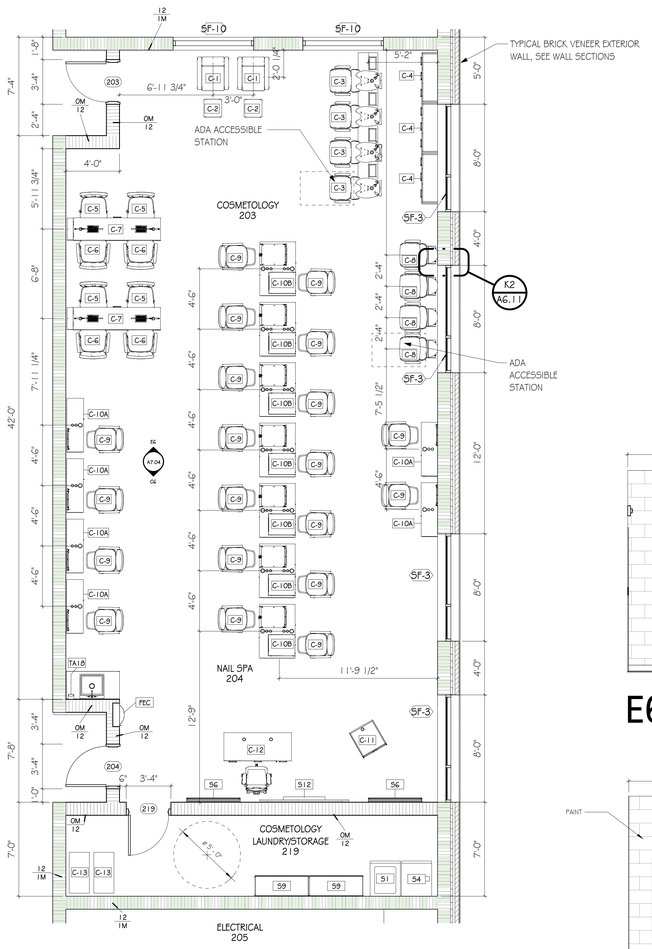
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

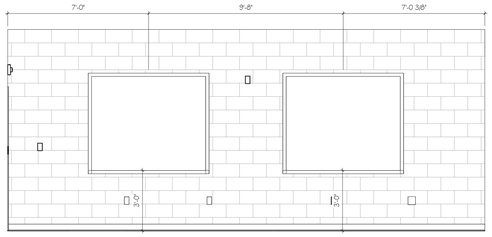
INTERIOR ELEVATIONS - MAIN LEVEL CLASSROOMS & N CONCESSIONS

A7.03

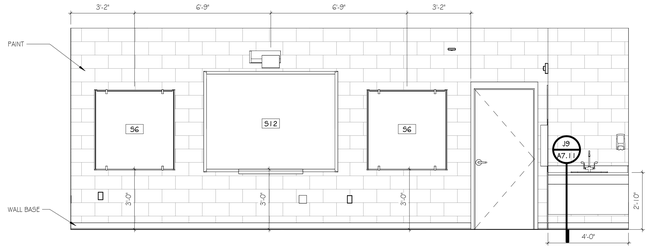
11/18/2024 6:21:39 PM TEMPLATE VERSION: 20221



C2 MAIN LEVEL - CLASSROOMS 2
SCALE: 1/4" = 1'-0"



E6 COSMETOLOGY 203 - NORTH
SCALE: 3/8" = 1'-0"



C6 NAIL SPA 204 - SOUTH
SCALE: 3/8" = 1'-0"

COSMETOLOGY - EQUIPMENT SCHEDULE
ALL EQUIPMENT CFCI

BASIS OF DESIGN: COLLINS MANUFACTURING COMPANY, COOKEVILLE, TN
WEBSITE: https://collins.co/pages/cosmetology-education-equipment-furnishings-schools
CONTACT: MAC McCALLISTER - 800-292-6450

KEY	TYPE	DETAIL DESCRIPTION
C-1	PEDICURE STATION	MANUFACTURER: COLLINS SYTLE NAME: BLUSH CLUB-PEDI EDU PART/MODEL #: 2555BEDU SIZE: 30"W x 30"D x 22"H x 37"H FINISH: LAMINATE TBD; VINYL TBD ACCESSORIES: PRO FOOT BASIN W/ HYGIENIC LINERS
C-2	PEDICURE TECH STOOL	MANUFACTURER: COLLINS STYLE NAME: LEVITATE PEDISTOOL PART/MODEL #: 1958-401P SIZE: SEE MFG DIMS FINISHES: VINYL FABRIC COLOR TBD NOTES:
C-3	SHAMPOO STATION # 1 ADA SHAMPOO STATION	MANUFACTURER: COLLINS STYLE NAME: MERANO BACKWASH SHAMPOO SHUTTLE ON WOODEN CHASIS PART/MODEL #: E1-BWS # E1-BWS-ADA SIZE: 26"W x 48"D x 40"H FINISHES: TBD ACCESSORIES: PLUMBING CHASE TO GO BETWEEN SHUTTLES - PART #BWSC NOTES: ONE UNIT TO HAVE MOVEABLE CHAIR FOR ADA ACCESSIBILITY
C-4	BACKBAR CABINET/TOWEL STORAGE	MANUFACTURER: COLLINS STYLE NAME: NICO BACKBAR STORAGE - 48 MODEL PART/MODEL #: E1104-48 SIZE: 48"W x 15"D x 61"H FINISHES: TO MATCH FINISHES AT HAIR STATIONS NOTES: MIN 1 PULL OUT SOILED LINEN SECTION/UNIT
C-5	MANICURIST STOOL	MANUFACTURER: COLLINS STYLE NAME: MERANO STOOL PART/MODEL #: E160 SIZE: SEE MFG DIMS FINISHES: VINYL FABRIC COLOR TBD NOTES:
C-6	MANICURE CLIENT CHAIR	MANUFACTURER: COLLINS STYLE NAME: MERANO TASK-CLIENT CHAIR PART/MODEL #: E140 SIZE: SEE MFG DIMS FINISHES: VINYL FABRIC TBD NOTES:

NUMBER	TYPE	DETAIL DESCRIPTION
C-7	MANICURE TABLE	MANUFACTURER/STYLE NAME: COLLINS STYLE NAME: DUCTED TABLE FOR TWO PART/MODEL #: 2265-78 SIZE: 76"W x 20"D x 32"H FINISH: TBD - ARCH/C TO SELECT FROM MFG SIGNATURE LAMINATES NOTES: VENT ALL STATIONS
C-8	DRYING STATION CHAIR # 1 ADA DRYING STATION	MANUFACTURER: COLLINS STYLE NAME: MERANO DRYER CHAIR PART/MODEL #: E120D # E120D-ADA SIZE: 26"W x 32"D x 48"H FINISHES: VINYL SEAT FABRIC TBD NOTES: ONE OF SIX UNITS TO HAVE MOVEABLE CHAIR FOR ADA ACCESSIBILITY
C-9	STYLING CHAIR	MANUFACTURER: COLLINS STYLE NAME: MERANO STYLING CHAIR PART/MODEL #: E100 SIZE: 26"W x 34.5"D x 33.5"H FINISHES: VINYL SEAT FABRIC TBD ACCESSORIES: MANNEQUIN HEAD SIMULATOR WITH UNDER SEAT STORAGE BRACKET ITEM # 502-10775 NOTES:
C-10A C-10B	STYLING STATION	MANUFACTURER: COLLINS STYLE NAME: PACIFIC STATION SINGLE (C-10A) # DOUBLE (C-10B) PART/MODEL #: 2106-48 SIZE: 48"W x VARIES"D x 36.75"H FINISHES: TBD - ARCH/D TO SELECT FROM MFG SIGNATURE LAMINATES NOTES:
C-11	INSTRUCTORS PODIUM	MANUFACTURER: COLLINS STYLE NAME: INSTRUCTORS PODIUM PART/MODEL #: 2471-24 SIZE: 48"L x 32"W x 54"H FINISHES: TBD - ARCH/D TO SELECT FROM MFG SIGNATURE LAMINATES NOTES:
C-12	INSTRUCTORS DESK	MANUFACTURER: COLLINS STYLE NAME: INSTRUCTORS DESK PART/MODEL #: 2472-60 SIZE: 60"W x 26"D x 30"H FINISHES: TBD - ARCH/D TO SELECT FROM MFG SIGNATURE LAMINATES NOTES:
C-13	FACIAL TABLE	MANUFACTURER: COLLINS STYLE NAME: ALLIANCE ALUMINUM PORTABLE FACIAL TABLE PART/MODEL #: 2067-300 SIZE: 30"W x 73"L x 24-34"H FINISHES: VINYL FABRIC TBD NOTES:

SPECIALTY EQUIPMENT SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
510	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
512	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
514	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
515	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
516	BEVERAGE COOLER	OFOI
517	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
523	24" WARMING DRAWER	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

GMC
Goodwyn Mills Cawood, LLC
2400 5th Avenue South, Suite 200
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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: Author
CHECKED BY: Checker

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

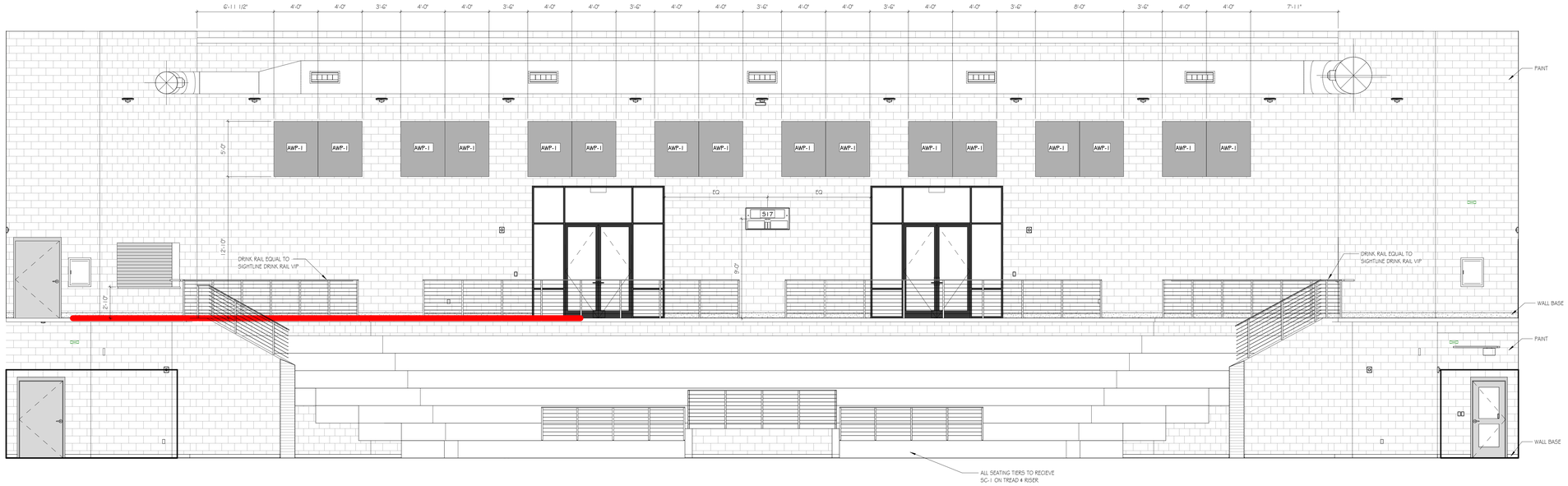
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE.
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

INTERIOR ELEVATIONS - MAIN LEVEL CLASSROOMS 2

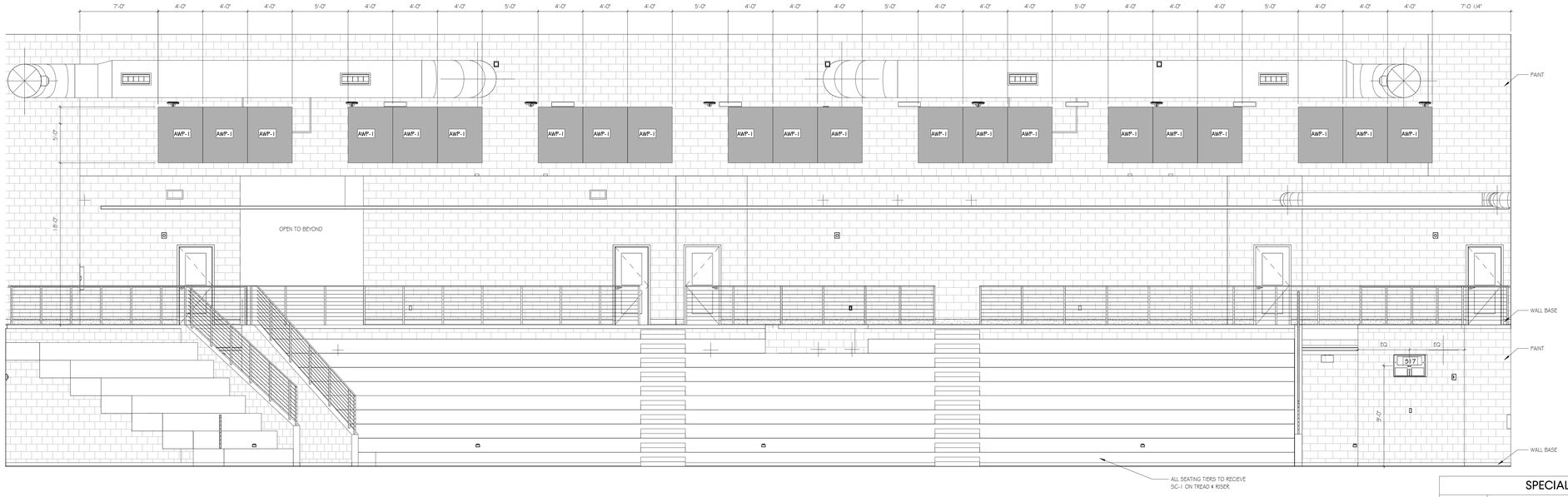
A7.04

11/18/2024 6:21:50 PM TEMPLATE VERSION: 2022.1



G1 GYMNASIUM 126 - NORTH WALL

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



B1 GYMNASIUM 126 - EAST WALL

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

SPECIALTY EQUIPMENT SCHEDULE		
TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
510	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
512	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
514	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
515	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
516	BEVERAGE COOLER	OFCI
517	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
523	24" WARMING DRAWER	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

GMC

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ISSUE | DATE
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DRAWN BY: Author
CHECKED BY: Checker

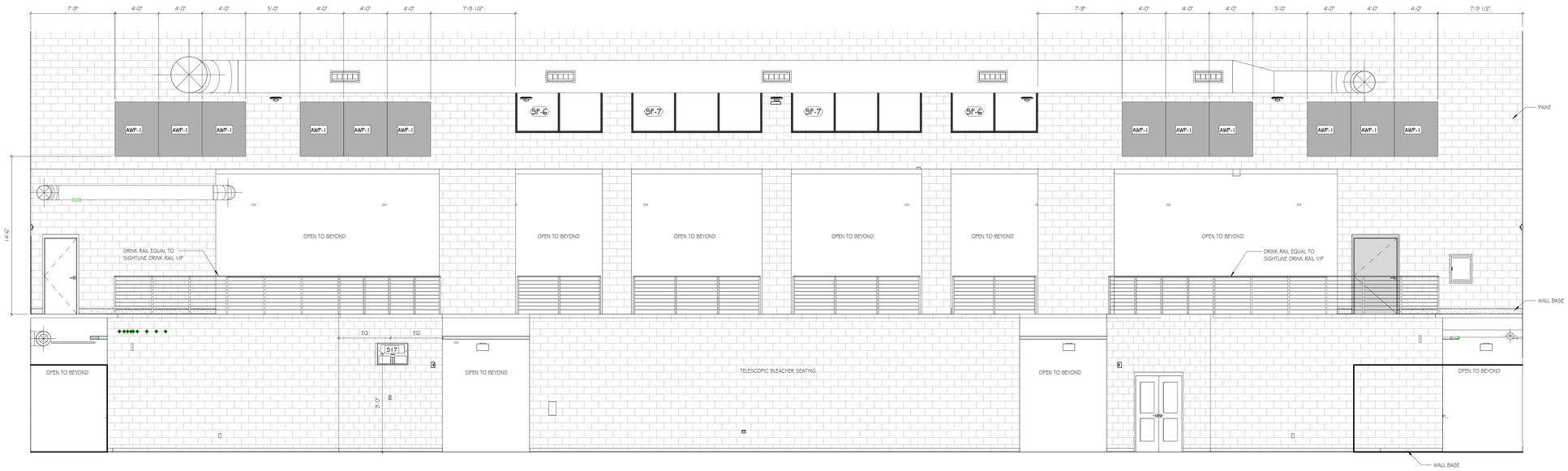
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

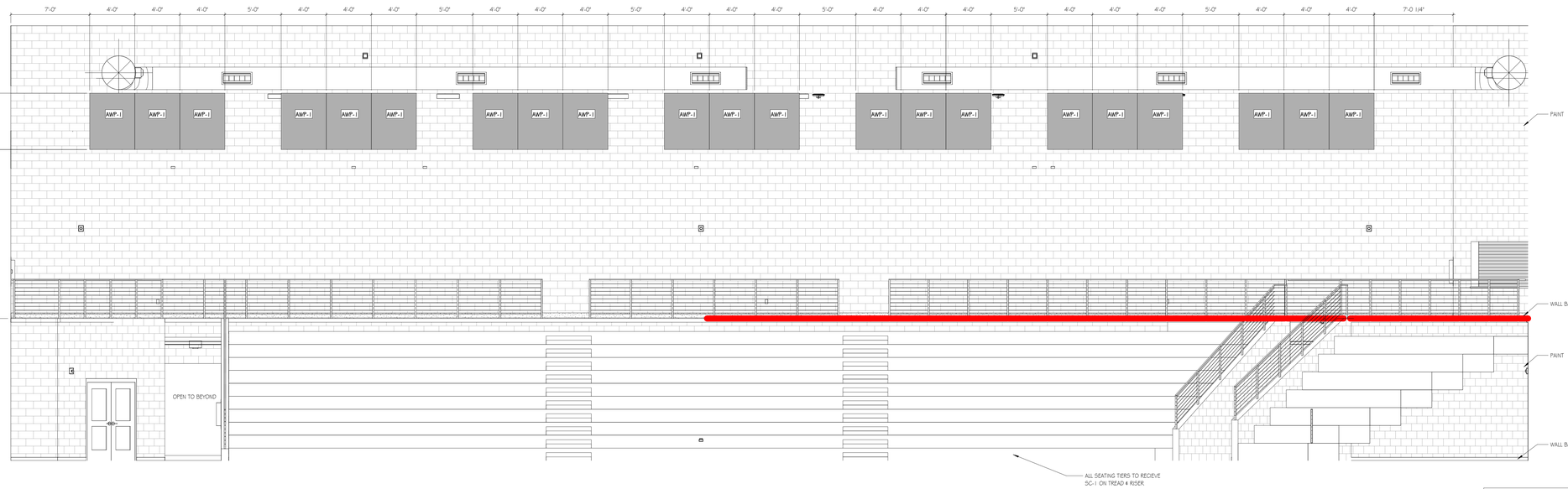
INTERIOR ELEVATIONS - MAIN LEVEL GYM 1

A7.05

11/19/2024 6:22:02 PM TEMPLATE VERSION: 2022.1



G1 GYMNASIUM 126 - SOUTH WALL
SCALE: 1/4" = 1'-0"



C1 GYMNASIUM 126 - WEST WALL
SCALE: 1/4" = 1'-0"

SPECIALTY EQUIPMENT SCHEDULE		
TAG	DESCRIPTION	OFCI/CFCI
S1	COMMERCIAL WASHING MACHINE	CFCI
S2	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
S3	MICROWAVE	OFCI
S4	COMMERCIAL DRYER	CFCI
S6	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
S7	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
S8	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
S9	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
S10	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
S12	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
S14	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
S15	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
S16	BEVERAGE COOLER	OFOI
S17	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
S23	24" WARMING DRAWER	CFCI
S32	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

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STATE of ALABAMA
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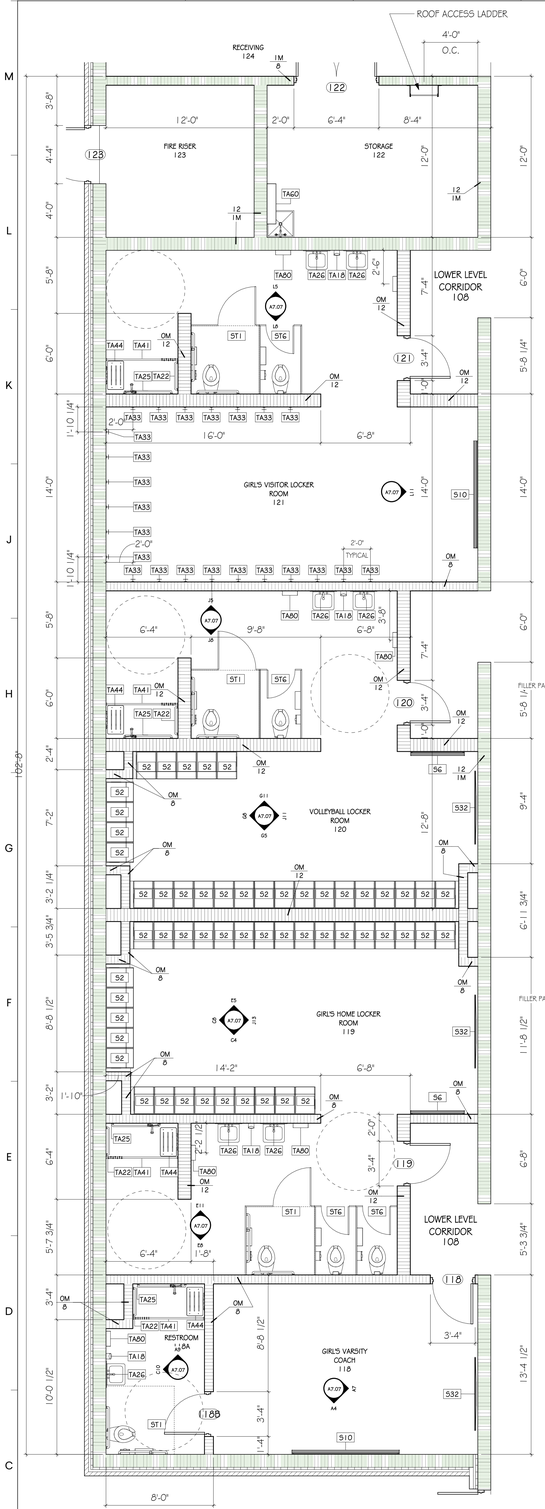
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

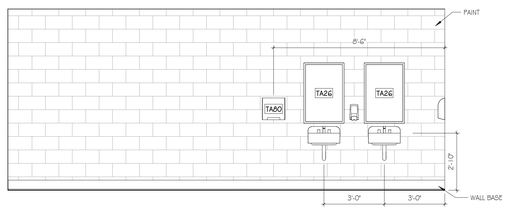
INTERIOR ELEVATIONS - MAIN LEVEL GYM 2

A7.06

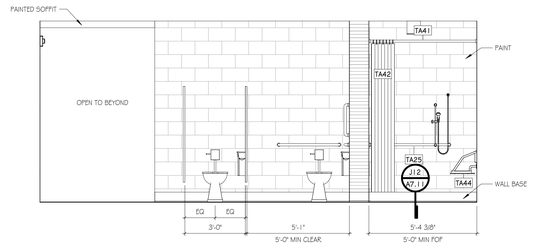
11/18/2024 6:22:12 PM TEMPLATE VERSION: 2022.1



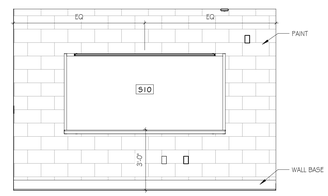
C1 LOWER LEVEL WEST CORRIDOR
SCALE: 1/4" = 1'-0"



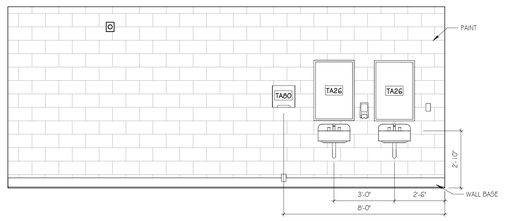
L5 GIRLS VISITOR 121 - SINK WALL
SCALE: 3/8" = 1'-0"



L8 GIRLS VISITOR 121 - TOILET WALL
SCALE: 3/8" = 1'-0"

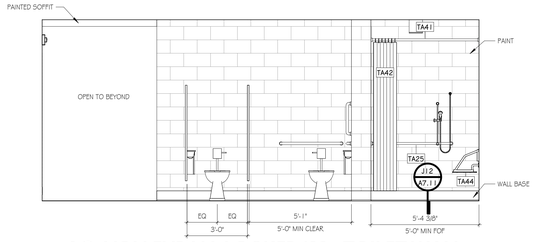


L11 GIRLS VISITOR 121 - EAST
SCALE: 3/8" = 1'-0"

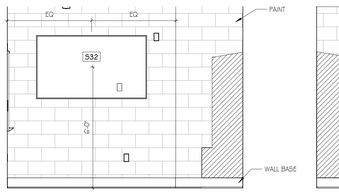


J5 VOLLEYBALL LOCKER 120 - SINK WALL
SCALE: 3/8" = 1'-0"

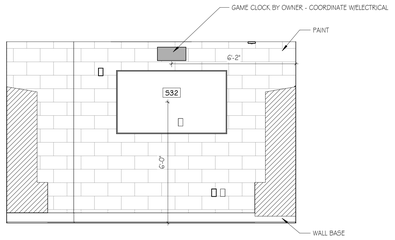
LOWER LEVEL CORRIDOR 108



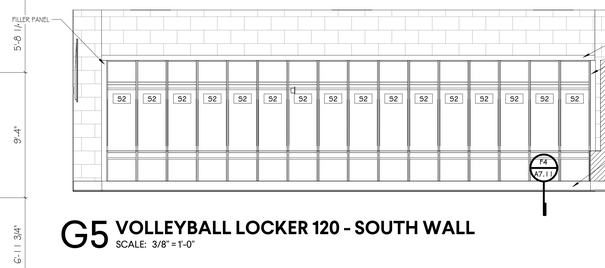
J8 VOLLEYBALL LOCKER 120 - TOILET WALL
SCALE: 3/8" = 1'-0"



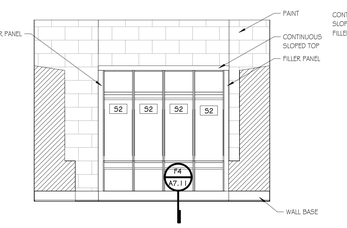
J11 VOLLEYBALL 120 - EAST
SCALE: 3/8" = 1'-0"



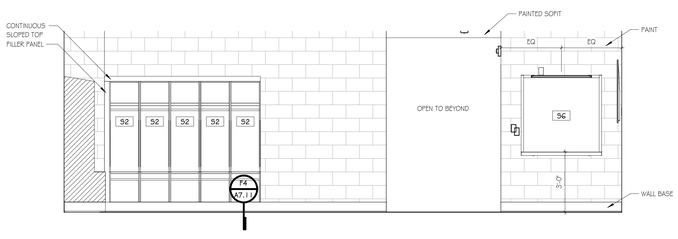
J13 GIRLS HOME 119 - EAST
SCALE: 3/8" = 1'-0"



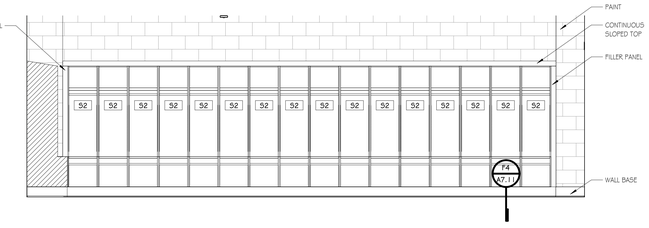
G5 VOLLEYBALL LOCKER 120 - SOUTH WALL
SCALE: 3/8" = 1'-0"



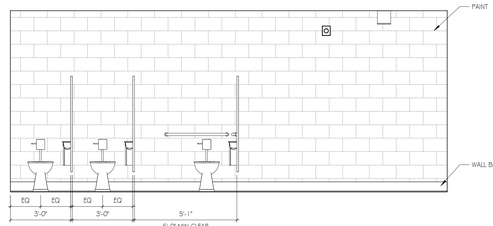
G8 VOLLEYBALL LOCKER 120 - WEST WALL
SCALE: 3/8" = 1'-0"



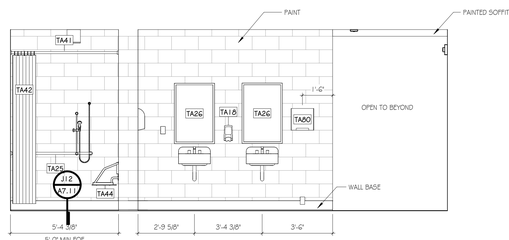
G11 VOLLEYBALL LOCKER 120 - NORTH WALL
SCALE: 3/8" = 1'-0"



E5 GIRLS HOME 119 - NORTH WALL
SCALE: 3/8" = 1'-0"

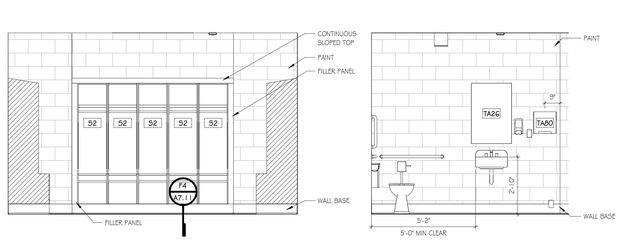


E8 GIRLS HOME 119 - TOILET WALL
SCALE: 3/8" = 1'-0"



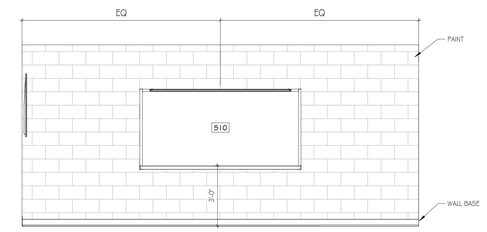
E11 GIRLS HOME 119 - SINK WALL
SCALE: 3/8" = 1'-0"

C4 GIRLS HOME 119 - SOUTH WALL
SCALE: 3/8" = 1'-0"

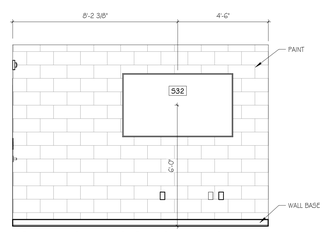


C8 GIRLS HOME 119 - WEST WALL
SCALE: 3/8" = 1'-0"

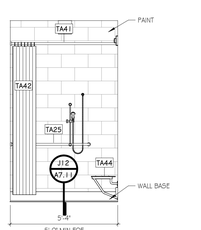
C10 GIRLS COACH 118A - RESTROOM
SCALE: 3/8" = 1'-0"



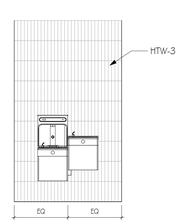
A4 GIRLS VARSITY COACH SOUTH
SCALE: 3/8" = 1'-0"



A7 GIRLS VARSITY COACH EAST
SCALE: 3/8" = 1'-0"



A9 RESTROOM 118A NORTH
SCALE: 3/8" = 1'-0"



A11 LOWER LEVEL WC - WEST
SCALE: 3/8" = 1'-0"

SPECIALTY EQUIPMENT SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
510	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
512	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
514	PLATE GLASS MIRROR - 4'-0"W 6'-0"H	CFCI
515	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
516	BEVERAGE COOLER	OFOI
517	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
523	24" WARMING DRAWER	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

TOILET ACCESSORIES SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
TA01	TOILET TISSUE DISP	OFCI
TA13	WASTE RECEPTACLE, SURFACE MOUNT, LARGE	CFCI
TA18	SOAP DISPENSER	OFCI
TA22	24" HORIZONTAL GRAB BAR	CFCI
TA23	18" HORIZONTAL GRAB BAR	CFCI
TA24	36" HORIZONTAL GRAB BAR	CFCI
TA25	42" HORIZONTAL GRAB BAR	CFCI
TA26	24" FRAMED MIRROR	CFCI
TA33	ROBE HOOK (ADA FRONT APPROACH)	CFCI
TA36	SANITARY NAPKIN DISPOSAL	CFCI
TA41	HEAVY DUTY SHOWER ROD	CFCI
TA42	SHOWER CURTAIN	CFCI
TA44	SHOWER SEAT - FOLDING, RECTANGULAR	CFCI
TA60	JANITORIAL SHELF	CFCI
TA80	WARM AIR HAND DRYER	CFCI
TA85	DIAPER CHANGING STATION, SURFACE-MOUNT	CFCI

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ISSUE DATE
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CHECKED BY: Checker

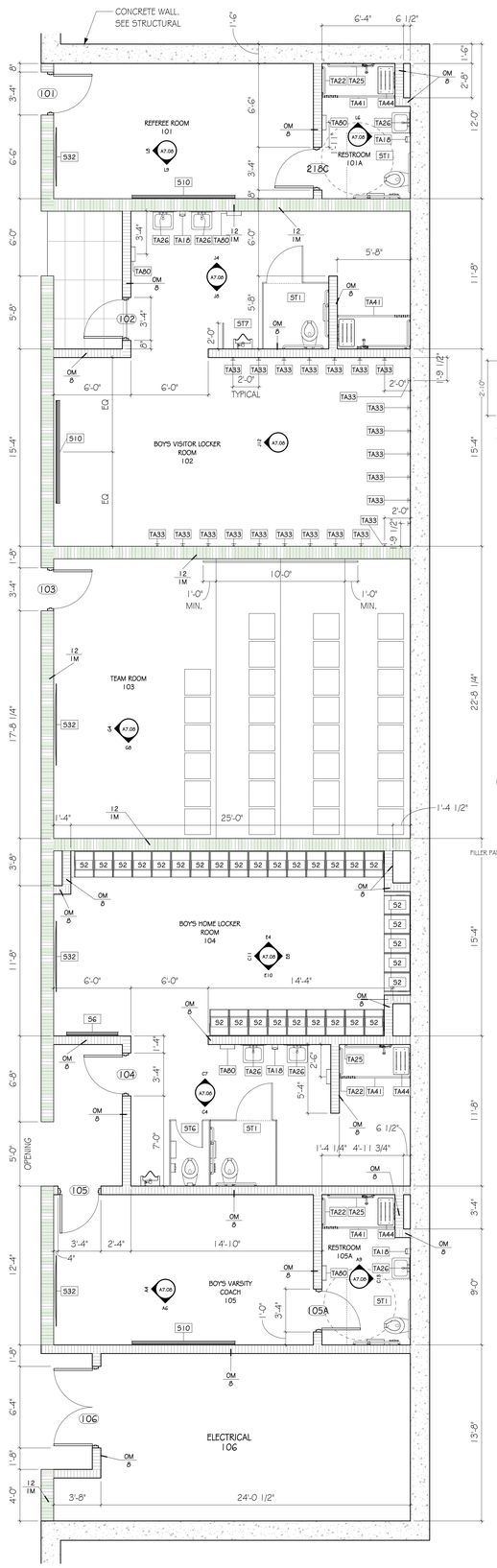
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

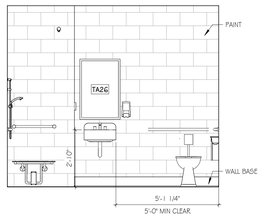
INTERIOR ELEVATIONS - LOWER LEVEL WEST LOCKER ROOMS

A7.07

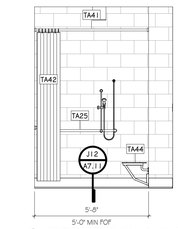
11/18/2024 6:23:14 PM TEMPLATE VERSION: 20221



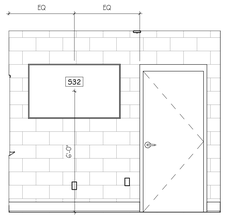
A1 LOWER LEVEL EAST CORRIDOR
SCALE: 1/4" = 1'-0"



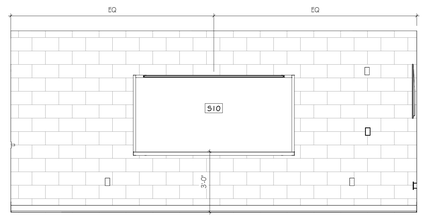
L4 RESTROOM 101A - EAST
SCALE: 3/8" = 1'-0"



L6 RESTROOM 101A - NORTH
SCALE: 3/8" = 1'-0"

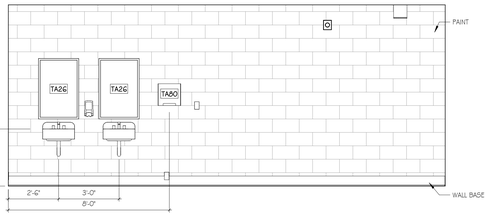


L8 REFEREE WEST
SCALE: 3/8" = 1'-0"

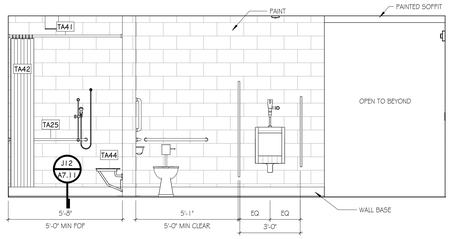


L9 REFEREE SOUTH
SCALE: 3/8" = 1'-0"

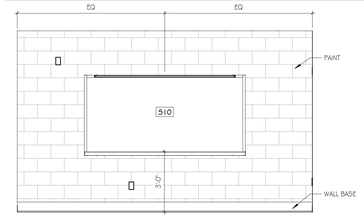
SPECIALTY EQUIPMENT SCHEDULE		
TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
510	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
512	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
514	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
515	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
516	BEVERAGE COOLER	OFCI
517	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
523	24" WARMING DRAWER	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI



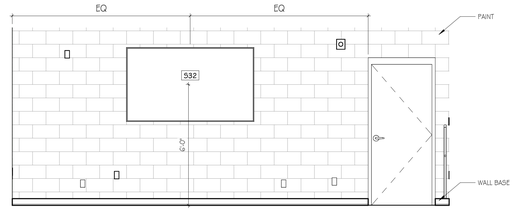
J4 BOYS VISITOR 102 - SINK WALL
SCALE: 3/8" = 1'-0"



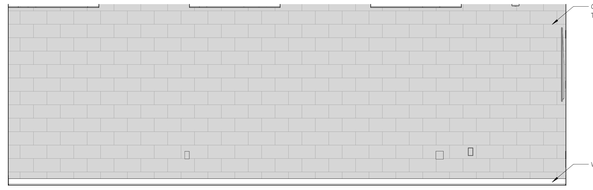
J8 BOYS VISITOR 102 - TOILET WALL
SCALE: 3/8" = 1'-0"



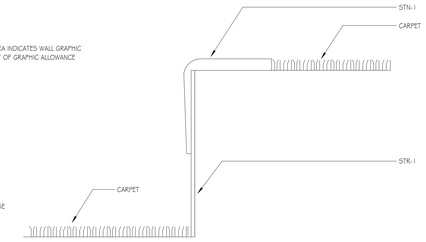
J12 BOY'S VISITOR 102 - WEST
SCALE: 3/8" = 1'-0"



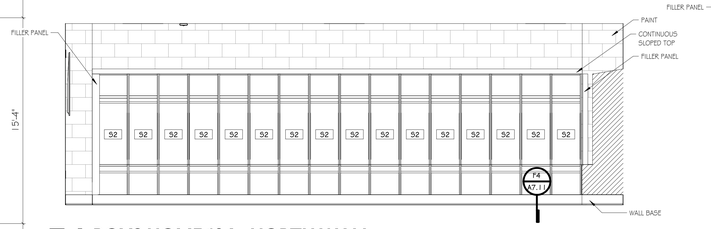
G4 TEAM ROOM 103 - WEST
SCALE: 3/8" = 1'-0"



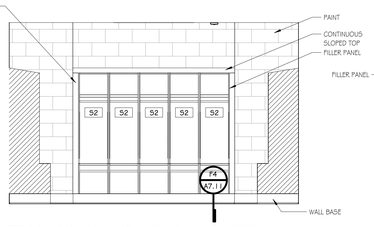
G8 TEAM ROOM 103 - SOUTH
SCALE: 3/8" = 1'-0"



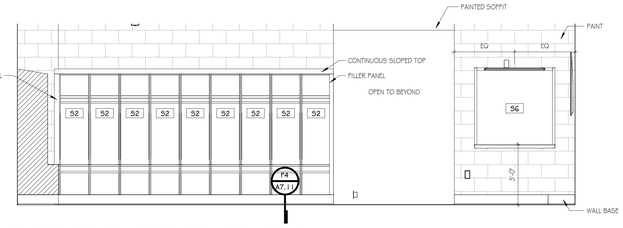
G12 TEAM ROOM STAIR EDGE
SCALE: 6" = 1'-0"



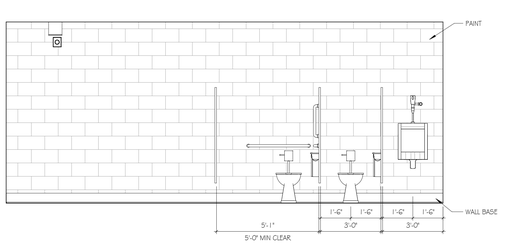
E4 BOYS HOME 104 - NORTH WALL
SCALE: 3/8" = 1'-0"



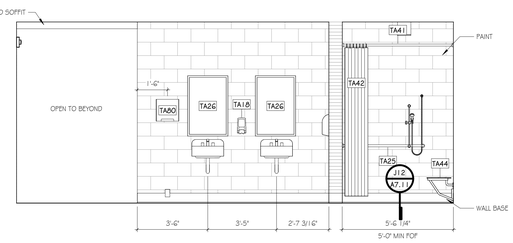
E8 BOYS HOME 104 - EAST WALL
SCALE: 3/8" = 1'-0"



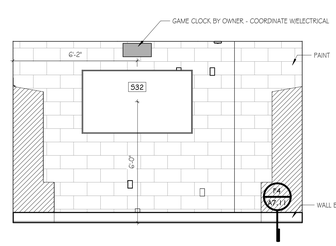
E10 BOYS HOME 104 - SOUTH WALL
SCALE: 3/8" = 1'-0"



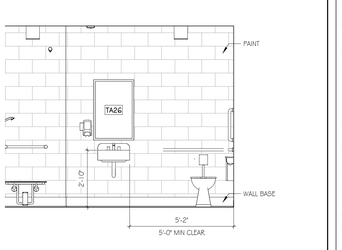
C4 BOYS HOME 104 - SINK WALL
SCALE: 3/8" = 1'-0"



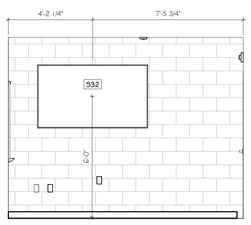
C7 BOYS HOME 104 - TOILET WALL
SCALE: 3/8" = 1'-0"



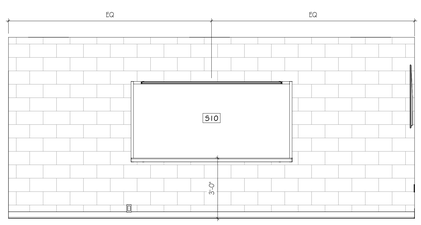
C11 BOYS HOME 104 - WEST WALL
SCALE: 3/8" = 1'-0"



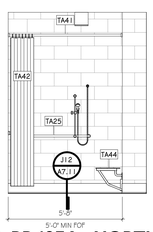
C13 BOYS COACH 105 -BATHROOM
SCALE: 3/8" = 1'-0"



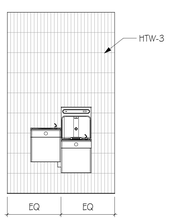
A4 BOYS VARSITY COACH WEST
SCALE: 3/8" = 1'-0"



A6 BOYS VARSITY COACH SOUTH
SCALE: 3/8" = 1'-0"



A9 RR 105A - NORTH
SCALE: 3/8" = 1'-0"



A10 LOWER LEVEL WC - EAST
SCALE: 3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE		
TAG	DESCRIPTION	OFCI/CFCI
TA01	TOILET TISSUE DISP	OFCI
TA13	WASTE RECEPTACLE, SURFACE MOUNT, LARGE	CFCI
TA18	SOAP DISPENSER	OFCI
TA22	24" HORIZONTAL GRAB BAR	CFCI
TA23	18" HORIZONTAL GRAB BAR	CFCI
TA24	36" HORIZONTAL GRAB BAR	CFCI
TA25	42" HORIZONTAL GRAB BAR	CFCI
TA26	24" FRAMED MIRROR	CFCI
TA33	ROBE HOOK (ADA FRONT APPROACH)	CFCI
TA36	SANITARY NAPKIN DISPOSAL	CFCI
TA41	HEAVY DUTY SHOWER ROD	CFCI
TA42	SHOWER CURTAIN	CFCI
TA44	SHOWER SEAT - FOLDING, RECTANGULAR	CFCI
TA60	JANITORIAL SHELF	CFCI
TA80	WARM AIR HAND DRYER	CFCI
TA85	DIAPER CHANGING STATION, SURFACE-MOUNT	CFCI

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: Author
CHECKED BY: Checker

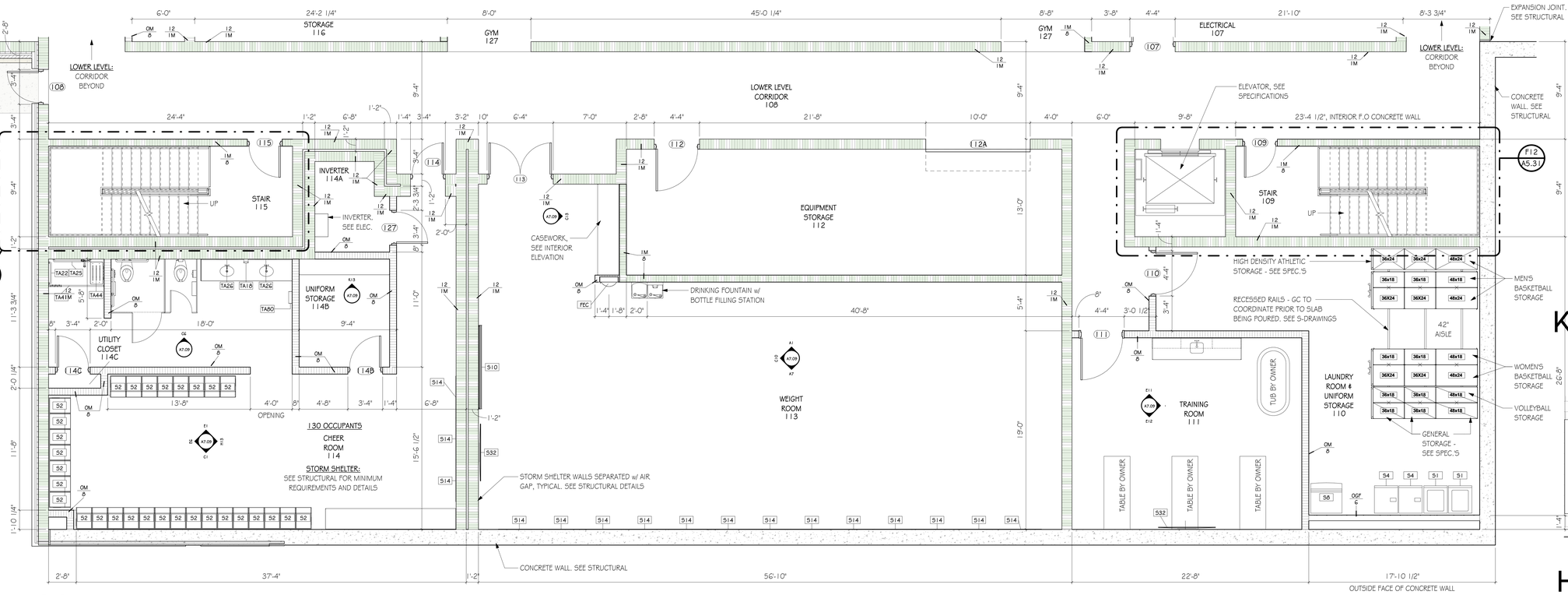
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
2014 5th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

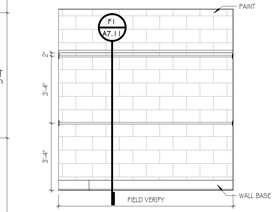
INTERIOR ELEVATIONS - LOWER LEVEL EAST LOCKER ROOMS

A7.08

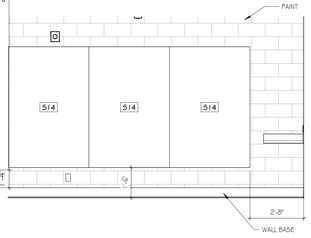
11/18/2024 6:23:58 PM TEMPLATE VERSION: 2022.1



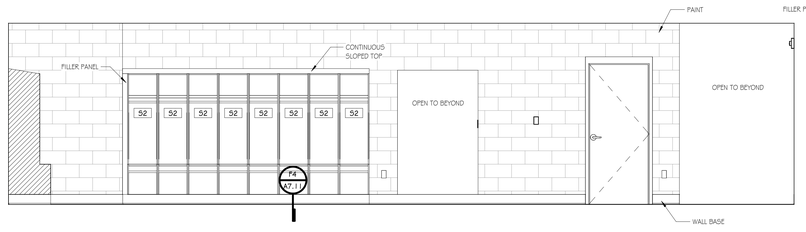
G2 LOWER LEVEL SOUTH CORRIDOR
SCALE: 1/4" = 1'-0"



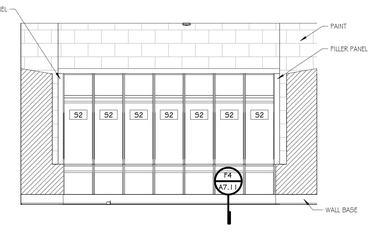
K13 UNIFORM STORAGE - NORTH
SCALE: 3/8" = 1'-0"



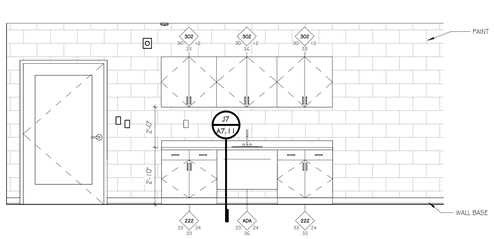
H13 CHEER ROOM 114 - EAST
SCALE: 3/8" = 1'-0"



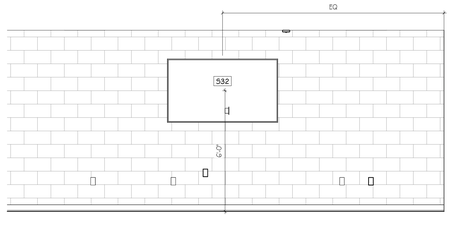
E1 CHEER ROOM 114 - NORTH WALL
SCALE: 3/8" = 1'-0"



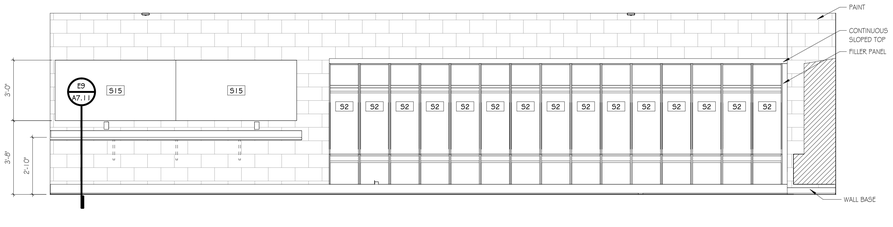
E6 CHEER ROOM 114 - WEST WALL
SCALE: 3/8" = 1'-0"



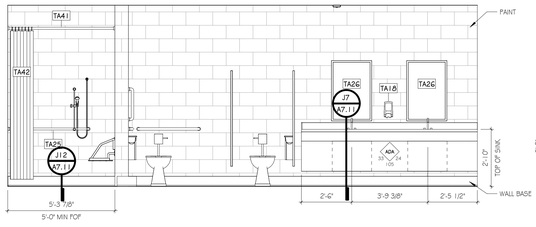
E11 TRAINING ROOM 111 - NORTH WALL
SCALE: 3/8" = 1'-0"



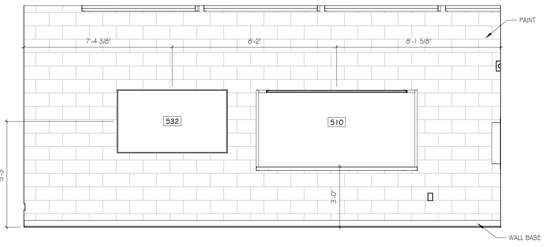
E12 TRAINING ROOM 111 - SOUTH
SCALE: 3/8" = 1'-0"



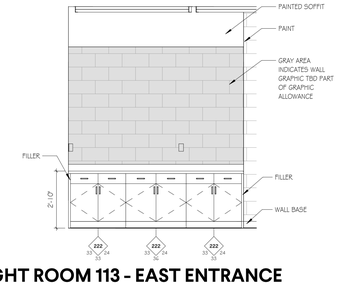
C1 CHEER ROOM 114 - SOUTH WALL
SCALE: 3/8" = 1'-0"



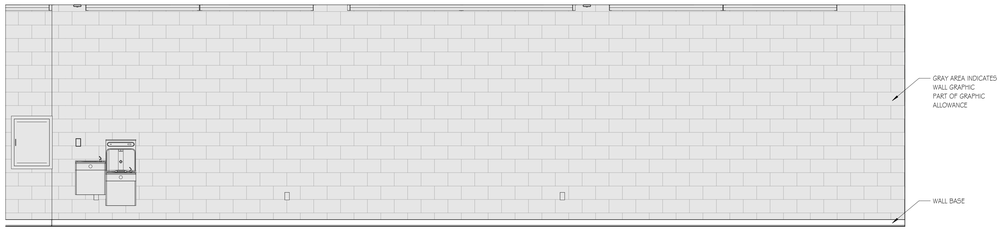
C6 CHEER ROOM 114 - BATHROOMS
SCALE: 3/8" = 1'-0"



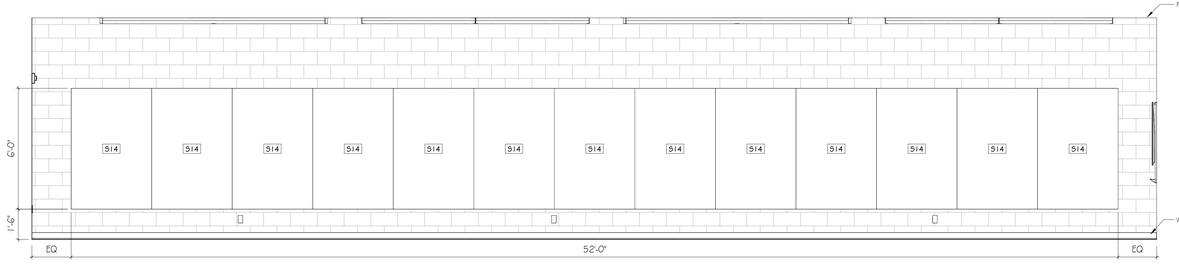
C10 WEIGHT ROOM 113 - WEST
SCALE: 3/8" = 1'-0"



WEIGHT ROOM 113 - EAST ENTRANCE WALL
C13
SCALE: 3/8" = 1'-0"



A1 WEIGHT ROOM 113 - NORTH WALL
SCALE: 3/8" = 1'-0"



A7 WEIGHT ROOM 113 - SOUTH
SCALE: 3/8" = 1'-0"

GMC
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ISSUE DATE
DCM FINAL SUBMITTAL 11/14/24

DRAWN BY: Author
CHECKED BY: Checker

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

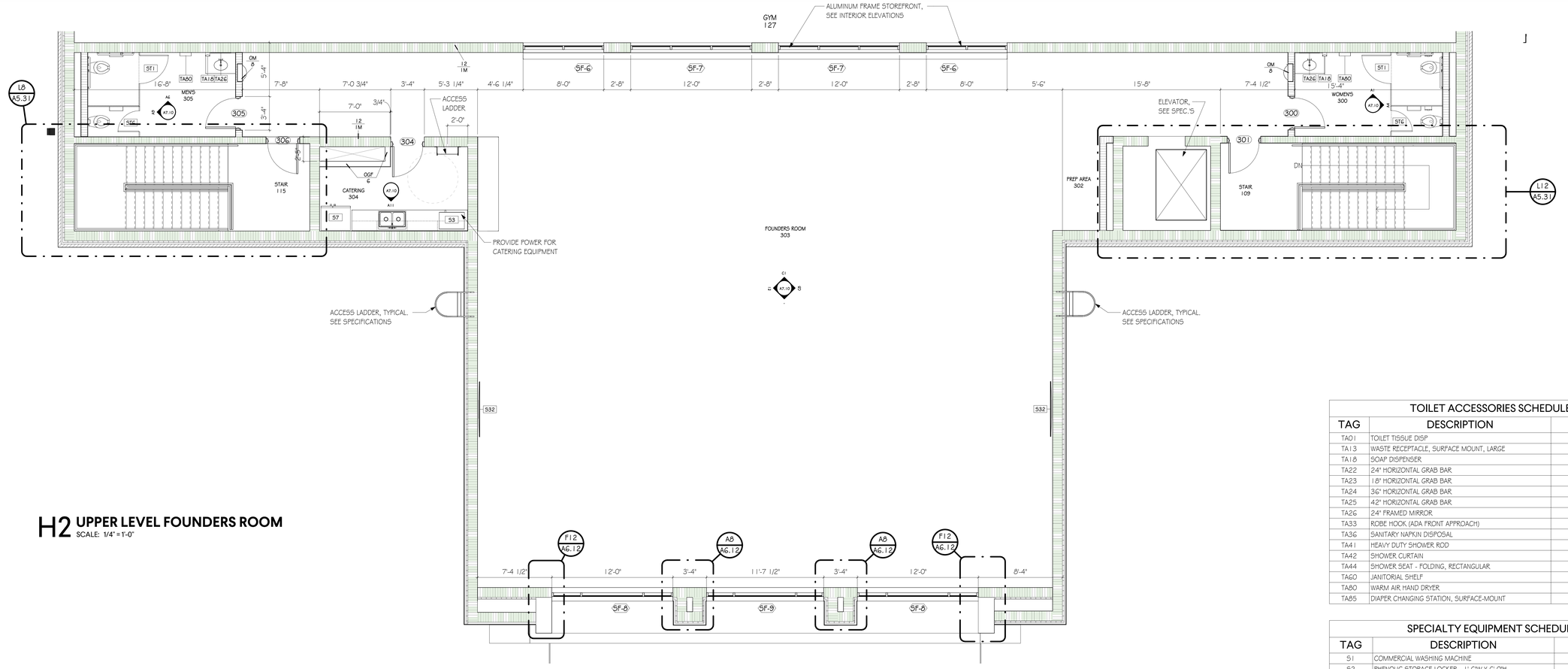
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

INTERIOR ELEVATIONS - LOWER LEVEL SOUTH CORRIDOR

A7.09

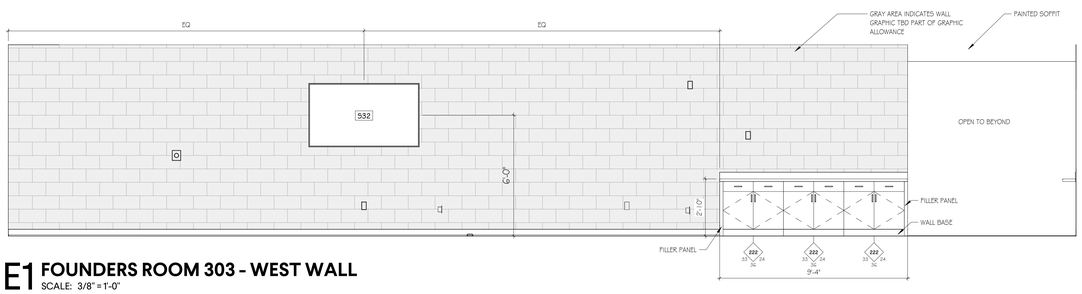
11/18/2024 6:24:43 PM TEMPLATE VERSION: 2022.1



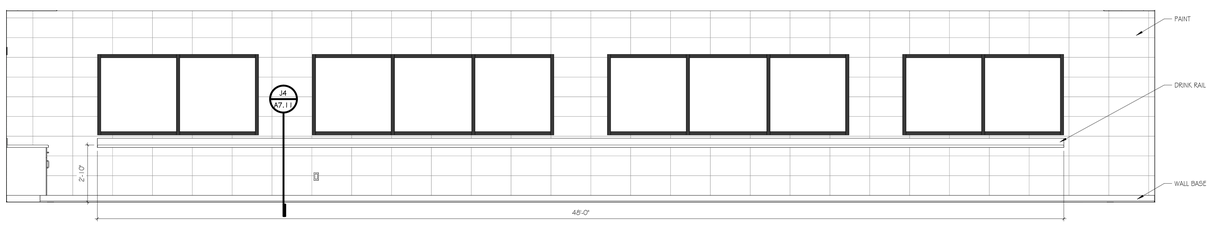
H2 UPPER LEVEL FOUNDERS ROOM
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE		
TAG	DESCRIPTION	OFCI/CFCI
TA01	TOILET TISSUE DISP	OFCI
TA13	WASTE RECEPTACLE, SURFACE MOUNT, LARGE	CFCI
TA18	SOAP DISPENSER	OFCI
TA22	24" HORIZONTAL GRAB BAR	CFCI
TA23	18" HORIZONTAL GRAB BAR	CFCI
TA24	36" HORIZONTAL GRAB BAR	CFCI
TA25	42" HORIZONTAL GRAB BAR	CFCI
TA26	24" FRAMED MIRROR	CFCI
TA33	ROBE HOOK, (ADA FRONT APPROACH)	CFCI
TA36	SANITARY NAPKIN DISPOSAL	CFCI
TA41	HEAVY DUTY SHOWER ROD	CFCI
TA42	SHOWER CURTAIN	CFCI
TA44	SHOWER SEAT - FOLDING, RECTANGULAR	CFCI
TA60	JANITORIAL SHELF	CFCI
TA80	WARM AIR HAND DRYER	CFCI
TA85	DIAPER CHANGING STATION, SURFACE-MOUNT	CFCI

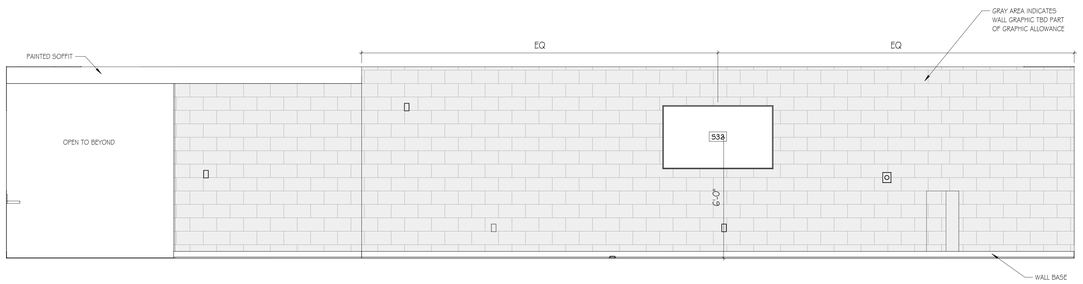
SPECIALTY EQUIPMENT SCHEDULE		
TAG	DESCRIPTION	OFCI/CFCI
S1	COMMERCIAL WASHING MACHINE	CFCI
S2	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
S3	MICROWAVE	OFCI
S4	COMMERCIAL DRYER	CFCI
S6	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
S7	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
S8	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
S9	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
S10	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
S12	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
S14	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
S15	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
S16	BEVERAGE COOLER	OFCI
S17	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
S23	24" WARMING DRAWER	CFCI
S32	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI



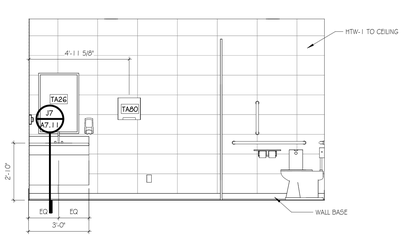
E1 FOUNDERS ROOM 303 - WEST WALL
SCALE: 3/8" = 1'-0"



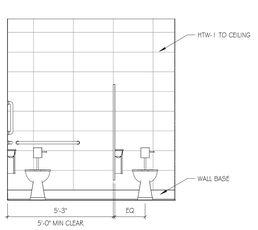
C1 FOUNDERS ROOM 303 - NORTH WALL
SCALE: 3/8" = 1'-0"



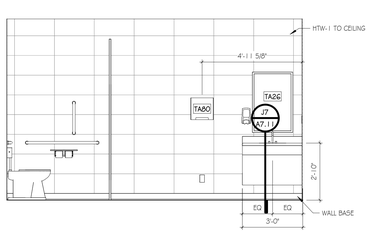
C8 FOUNDERS ROOM 303 - EAST WALL
SCALE: 3/8" = 1'-0"



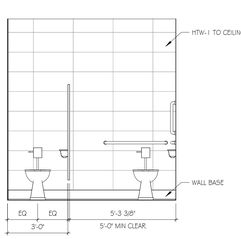
A1 WOMENS RR 301 - SINK WALL
SCALE: 3/8" = 1'-0"



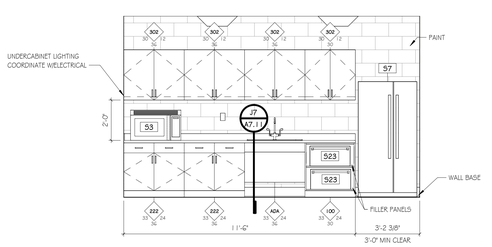
A4 WOMENS RR 301 - EAST WALL
SCALE: 3/8" = 1'-0"



A6 MENS RR 305 - SINK WALL
SCALE: 3/8" = 1'-0"



A9 MEN'S RR 305 - TOILET WALL
SCALE: 3/8" = 1'-0"



A11 CATERING 304 - SOUTH WALL
SCALE: 3/8" = 1'-0"

GMC
Goodwyn Mills Cawood, LLC
2400 5th Avenue South, Suite 200
Birmingham, AL 35233
T 205.879.4462
GMCNETWORK.COM

ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: Author
CHECKED BY: Checker

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
2014 5th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHLN230009

INTERIOR ELEVATIONS - UPPER LEVEL FOUNDERS ROOM

A7.10

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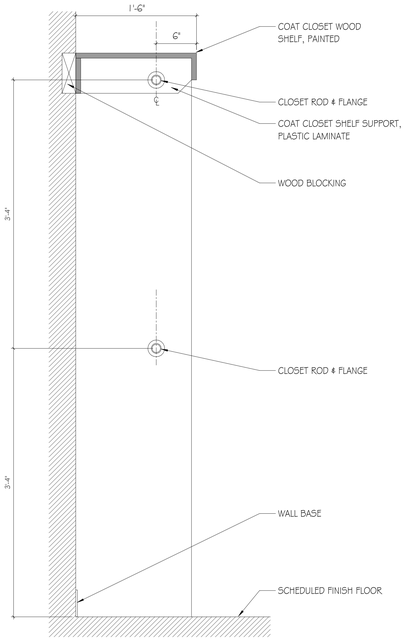
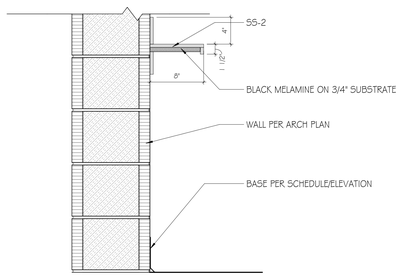
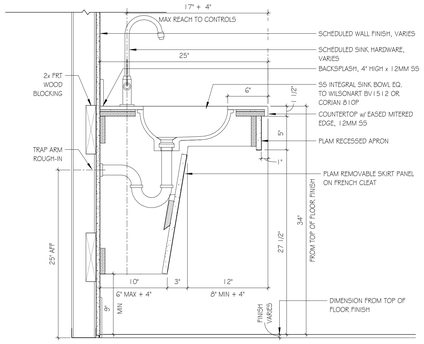


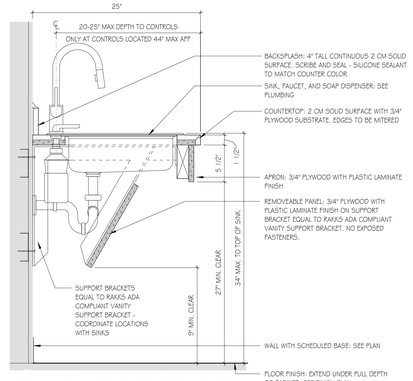
F1 CLOSET SHELF AND ROD
SCALE: 1 1/2" = 1'-0"



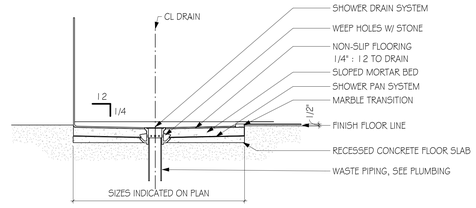
J4 SOLID SURFACE DRINK RAIL
SCALE: 1 1/2" = 1'-0"



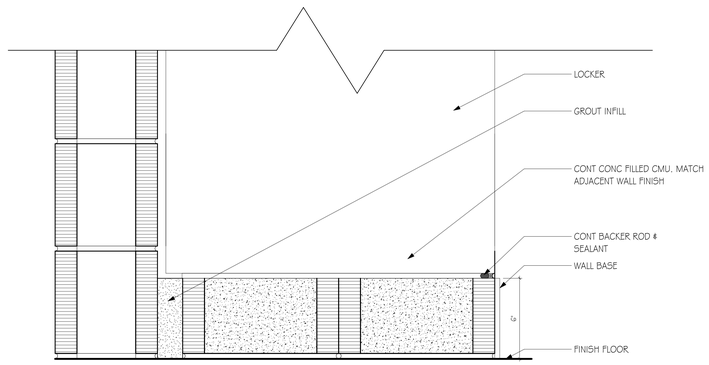
J7 ADA SINKBASE-TYPE SS-I-SS-B-25
SCALE: 1 1/2" = 1'-0"



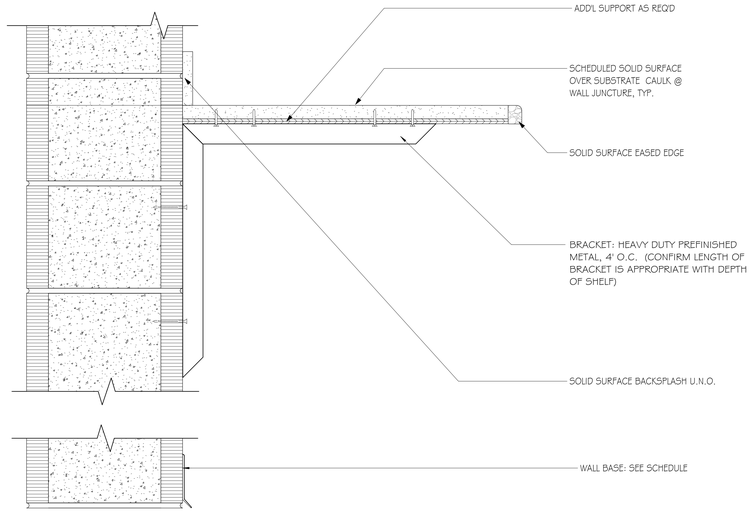
J9 06 - ADA SINKBASE - TYPE SST-D-SSQ-B-25_NEW
SCALE: 1 1/2" = 1'-0"



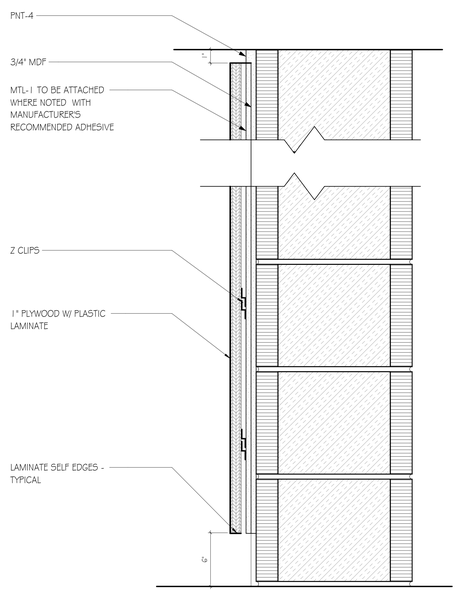
J12 SHOWER DETAIL
SCALE: 1" = 1'-0"



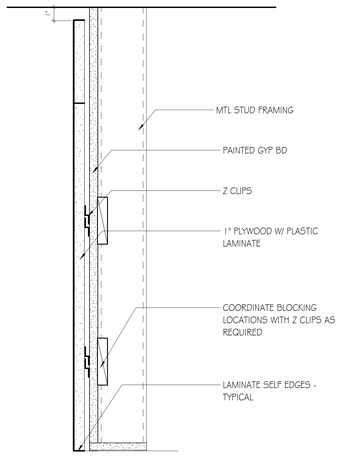
F4 LOCKER BASE - TYP
SCALE: 3" = 1'-0"



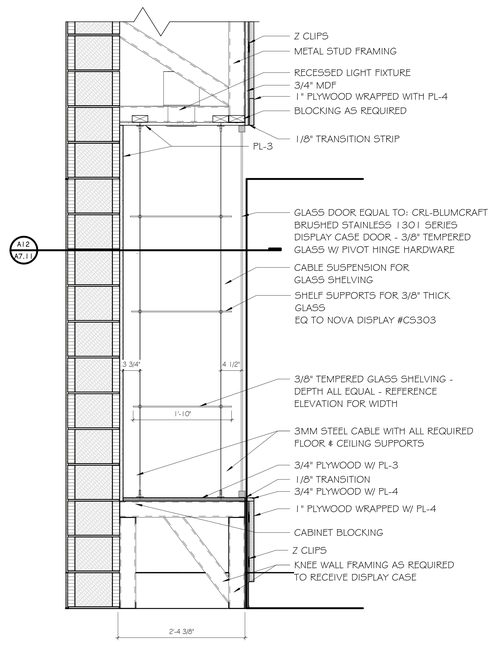
E9 TYPICAL COUNTER WITH BRACKET
SCALE: 3" = 1'-0"



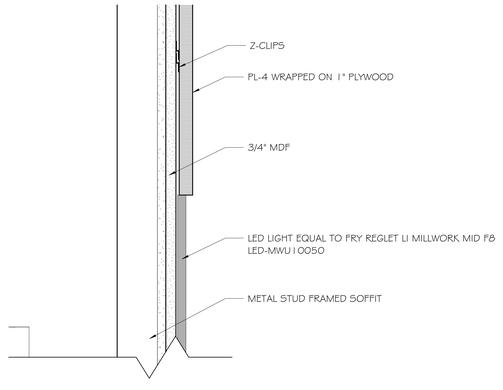
A1 ACCENT WAL
SCALE: 3" = 1'-0"



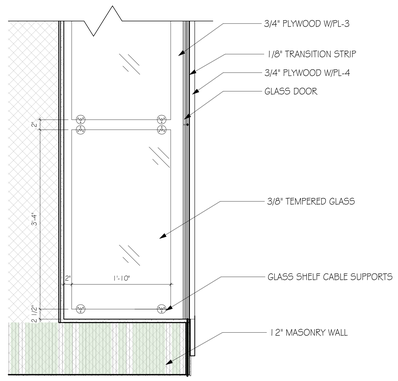
A4 ACCENT SOFFIT WALL
SCALE: 3" = 1'-0"



A6 TROPHY CASE DETAIL
SCALE: 1" = 1'-0"



A9 TROPHY CASE SOFFIT DETAIL
SCALE: 3" = 1'-0"



A12 TROPHY CASE SHELF DETAIL
SCALE: 1" = 1'-0"

GMC
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CHECKED BY: Checker

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
2014 5th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

INTERIOR DETAILS

A7.11

11/18/2024 6:25:14 PM TEMPLATE VERSION: 2022.1

FINISH NOTES

FLOORS:

- REFER TO FLOOR FINISH PLANS FOR FLOOR PATTERN. CONTRACTOR MUST NOTIFY INTERIOR DESIGNER BEFORE INSTALLATION OF FLOORING TO REVIEW DESIGN INTENT OF FLOOR PATTERN PLAN

- ALL FLOORING TRANSITIONS INCLUDING TRANSITIONS TO SIMILAR MATERIAL OR REDUCER STRIPS AND OTHER THRESHOLDS TO DISSIMILAR MATERIAL SHALL BE LOCATED AT THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. COLORS SHALL BE SELECTED DURING SUBMITTAL REVIEW. REFER TO DETAILS FOR TRANSITIONS BETWEEN FLOORING MATERIALS. CONTRACTOR TO PROVIDE TRANSITION SIZES APPROPRIATE FOR THICKNESS

- AVOID ALL FLOORING MATERIAL SLIVER CUTS LESS THAN 4" WIDE @ WALL PERIMETERS & MATERIAL TRANSITIONS. CONTACT DESIGNER IF JOBSITE CONDITIONS DIFFER.

- INSTALL FLOORING CONTINUOUS UNDER ALL CASEWORK, MILLWORK, EQUIPMENT, & FURNITURE

- ALIGN VERTICAL GROUT JOINTS IN TILE BASE WITH THOSE IN THE FLOOR TILE UNLESS NOTED OTHERWISE

WALLS:

- REFER TO FINISH PLANS & ELEVATIONS FOR LOCATION OF ACCENT PAINT COLORS

- ALL HOLLOW METAL DOOR & WINDOW FRAMES TO BE PAINTED PNT-2 UNLESS OTHERWISE NOTED

- ALL ACCESS PANELS AND MISCELLANEOUS METAL (RETURN AND AIR SUPPLY GRILLES, EXPANSION JOINTS, ETC.) LOCATED ON WALL SURFACES OR CEILING SURFACES TO BE PAINTED WALL OR CEILING COLOR U.N.O.

- WALL BASE TO BE INSTALLED ON ALL WALLS, MILLWORK, AND CASEWORK U.N.O.

- INSTALL FINISH STRIP EQUAL TO SCHLUTER "JOLLY" AT ALL EXPOSED TILE EDGES & CORNERS

MILLWORK / CASEWORK:

- INSTALL 3MM EDGEBAND ON ALL PLASTIC LAMINATE COUNTERTOPS AND CABINETS.

- ALL WINDOWS TO HAVE SOLID SURFACE SS-3 SILL U.N.O.

- GROMMET LOCATIONS TO BE COORDINATED WITH OWNER

- FIELD VERIFY ALL DIMENSIONS FOR CASEWORK & MILLWORK PRIOR TO FABRICATION & INSTALLATION

- ALL EXPOSED ENDS AND EXPOSED INTERIORS OF CASEWORK/ MILLWORK TO RECEIVE MATCHING LAMINATES

MISC:

- DO NOT PAINT DOOR LABELS AT RATED DOORS OR FRAMES.

- PROVIDE BLOCKING AS REQUIRED AT ALL TELEVISION LOCATIONS - COORDINATE WITH OWNER'S EQUIPMENT

- PROVIDE BLOCKING FOR ALL GRAB BARS AND TOILET ACCESSORIES

- ROLLER SHADES AND BLINDS ARE TAGGED ON THE RCP

- NON ADA TOILET FIXTURES SHALL BE CENTERED IN STALL

- CAULK ALL DOOR FRAMES, MILLWORK, AND VIEW WINDOW FRAMES AFTER WALLCOVERING INSTALLATION IS COMPLETE. COLOR OF CAULK TO MATCH ADJACENT FINISH.

- MARKER BOARDS HEIGHTS TO BE (3'-0" A.F.F.) TO THE BOTTOM OF WRITING SURFACE. GC TO COORDINATE WALL BLOCKING AS REQD.

- ALL PARTIES RESPONSIBLE FOR DELIVERING FINISHES TO THE SITE SHALL CHECK AVAILABILITY OF QUANTITIES AND DELIVERY DATES UPON NOTICE TO PROCEED. NO CONSIDERATION WILL BE GIVEN FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

RCP NOTES:

- ALL SPRINKLER HEADS IN FINISHED CEILINGS ALL SHALL BE CENTERED IN CEILING TILE. SPRINKLER HEADS SHALL NOT BE PAINTED.

- INTERIOR CEILING HEIGHTS SHALL BE AS INDICATED ON THE REFLECTED CEILING PLANS.

- WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR, BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.

- IN EXPOSED CEILINGS (EXP-2) ALL EXPOSED ELEMENTS NOT LIMITED TO TRUSS SYSTEM, ACOUSTICAL DECK, DUCTWORK, CONDUIT, AND PIPING TO BE PAINTED

- ALL GYP CEILINGS TO BE PAINTED PNT-3 UNLESS OTHERWISE NOTED IN RCP. BOTH CEILING AND SOFFIT /BULKHEAD SURFACES ARE TO BE PAINTED THE SAME COLOR.

- DO NOT INSTALL CEILING TILE LESS THAN 6" IN ANY DIRECTION - WHEN POSSIBLE CENTER TILE IN ROOM.

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALL	MILLWORK/CASEWORK CABINET	MILLWORK/CASEWORK COUNTERTOP	COMMENTS
101	REFEREE ROOM	LVT-1	RB-1	PNT-1			
101A	RESTROOM	EF-1	EFB-1	PNT-1			
102	BOYS VISITOR LOCKER ROOM	EF-1	EFB-1	PNT-1			
103	TEAM ROOM	CPT-1, STR-1, STN-1	RB-1	PNT-1, WALL GRAPHIC			REFER TO FINISH FLOOR PLAN & ELEVATIONS FOR GRAPHIC WALL LOCATION
104	BOYS HOME LOCKER ROOM	EF-1	EFB-1	PNT-1			
105	BOYS VARSITY COACH	LVT-1	RB-1	PNT-1			
105A	RESTROOM	EF-1	EFB-1	PNT-1			
106	ELECTRICAL	SC-1	RB-1	PNT-1			
107	ELECTRICAL	SC-1	RB-1	PNT-1			
108	LOWER LEVEL CORRIDOR	LVT-1	RB-1	PNT-1			
109	STAIR	RF-1, RST-1, LVT-1	RB-1	PNT-1			
109A	ELEV.	LVT-1					
110	LAUNDRY ROOM & UNIFORM STORAGE	EF-1	EFB-1	PNT-1			
111	TRAINING ROOM	EF-1	EFB-1	PNT-1	PL-1	SS-2	
112	EQUIPMENT STORAGE	SC-1	RB-1	PNT-1			
113	WEIGHT ROOM	RF-2	RB-1	PNT-1, WALL GRAPHIC	PL-1	SS-2	REFER TO FINISH FLOOR PLAN & ELEVATIONS FOR GRAPHIC WALL LOCATION
114	CHEER ROOM	EF-1	EFB-1	PNT-1	PL-1	SS-2	
114A	INVERTER	SC-1	RB-1	PNT-1			
114B	UNIFORM STORAGE	EF-1	EFB-1	PNT-1			
114C	UTILITY CLOSET	EF-1	EFB-1	PNT-1			
115	STAIR	RF-1, RST-1, LVT-1	RB-1	PNT-1			
116	STORAGE	SC-1	RB-1	PNT-1			
117	JAN.	SC-1	RB-1	PNT-1			
118	GIRL'S VARSITY COACH	LVT-1	RB-1	PNT-1			
118A	RESTROOM	EF-1	EFB-1	PNT-1			
119	GIRL'S HOME LOCKER ROOM	EF-1	EFB-1	PNT-1			
120	VOLLEYBALL LOCKER ROOM	EF-1	EFB-1	PNT-1			
121	GIRL'S VISITOR LOCKER ROOM	EF-1	EFB-1	PNT-1			
122	STORAGE	SC-1	RB-1	PNT-1			
123	FIRE RISER	SC-1	RB-1	PNT-1			
124	RECEIVING	LVT-1	RB-1	PNT-1			
125	STORAGE	SC-1	RB-1	PNT-1			
126	STORAGE	SC-1	RB-1	PNT-1			
127	GYM	WDF-1, SC-1	WB-1	PNT-1			
128	CLOSET	SC-1	RB-1	PNT-1			
201	S.T.E.M CLASSROOM	LVT-1	RB-1	PNT-G	PL-2	SS-2	
202	HEALTH / TRAINING	LVT-1	RB-1	PNT-G	PL-2	SS-2	
203	COSMETOLOGY	LVT-1	RB-1	PNT-G	PL-2	SS-2	
204	NAIL SPA	LVT-1	RB-1	PNT-G	PL-2	SS-2	
205	ELECTRICAL	SC-1	RB-1	PNT-1			
206	M.D.F	SC-1	RB-1	PNT-1			
207	JANITOR	SC-1	RB-1	PNT-1		SS-1	
208	MEN'S RR	HTF-1	HTB-1	HTW-1, HTW-2			
208	MAIN LEVEL CONCOURSE	TZ-1	TZB-1	PNT-1			
209	MAIN LOBBY	TZ-1, TZ-2	TZB-1	PNT-1, HTW-3, WALL GRAPHICS			REFER TO FINISH FLOOR PLAN & ELEVATIONS FOR GRAPHIC WALL LOCATIONS
209A	VESTIBULE	WOC-1	RB-1	PNT-1			
209B	ELEV.	LVT-1					
210	CONCESSIONS	HTF-2	HTB-2	PNT-1, HTF-2			
211	WOMEN'S RR	HTF-1	HTB-1	HTW-1, HTW-2			
212	FAMILY RR	HTF-1	HTB-1	HTW-1			
213	STORAGE	SC-1	RB-1	PNT-1			
215	NORTH CONCESSIONS	HTF-2	HTB-2	PNT-1			
218	STORAGE	SC-1	RB-1	PNT-1			
219	COSMETOLOGY LAUNDRY/STORAGE						
300	WOMEN'S	HTF-1	HTB-1	HTW-1			
303	FOUNDERS ROOM	LVT-2, LVT-3	RB-1	PNT-1, WALL GRAPHIC			REFER TO FINISH FLOOR PLAN & ELEVATIONS FOR GRAPHIC WALL LOCATION
304	CATERING	HTF-2	HTB-2	PNT-1			
305	MEN'S	HTF-1	HTB-1	HTW-1			

TOILET ACCESSORIES SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
TA01	TOILET TISSUE DISP	OFCI
TA13	WASTE RECEPTACLE, SURFACE MOUNT, LARGE	CFCI
TA18	SOAP DISPENSER	OFCI
TA22	24" HORIZONTAL GRAB BAR	CFCI
TA23	18" HORIZONTAL GRAB BAR	CFCI
TA24	36" HORIZONTAL GRAB BAR	CFCI
TA25	42" HORIZONTAL GRAB BAR	CFCI
TA26	24" FRAMED MIRROR	CFCI
TA33	ROBE HOOK (ADA FRONT APPROACH)	CFCI
TA36	SANITARY NAPKIN DISPOSAL	CFCI
TA41	HEAVY DUTY SHOWER ROD	CFCI
TA42	SHOWER CURTAIN	CFCI
TA44	SHOWER SEAT - FOLDING, RECTANGULAR	CFCI
TA60	JANITORIAL SHELF	CFCI
TA80	WARM AIR HAND DRYER	CFCI
TA85	DIAPER CHANGING STATION, SURFACE-MOUNT	CFCI

SPECIALTY EQUIPMENT SCHEDULE

TAG	DESCRIPTION	OFCI/CFCI
51	COMMERCIAL WASHING MACHINE	CFCI
52	PHENOLIC STORAGE LOCKER - 1'-6"W X 6'-0"H	CFCI
53	MICROWAVE	OFCI
54	COMMERCIAL DRYER	CFCI
56	MARKER BOARD - 4'-0"W X 4'-0"H - 3'-0" AFF	CFCI
57	REFRIGERATOR/FREEZER - SIDE BY SIDE	OFCI
58	ICE MACHINE - OFCI - COORDINATE WITH MEP	OFCI
59	UTILITY SHELVING - METAL - 36"W X 18"D X 84"H	OFCI
510	MARKER BOARD - 8'-0"W X 4'-0"H - 3'-0" AFF	CFCI
512	SMART BOARD - PROVIDE POWER AND NECESSARY CONNECTIONS - 3'-0" AFF	OFCI
514	PLATE GLASS MIRROR - 4'-0"X 6'-0"H	CFCI
515	PLATE GLASS MIRROR - 6'-0"W X 3'-0"H	CFCI
516	BEVERAGE COOLER	OFOI
517	VARSITY SCOREBOARDS 2207 Indoor Wall-Mount Scoreboard 4'-0"W x 2'-0"H	OFCI
523	24" WARMING DRAWER	CFCI
532	TV - WALL MOUNTED - OWNER FURNISHED - GC TO COORDINATE POWER, DATA, WALL BLOCKING	OFCI

FINISH LEGEND

FLOOR

NUMBER	TYPE	DETAIL DESCRIPTION
CPT-1	CARPET	MANUFACTURER: BENTLEY MILLS STYLE NAME: PAGEANTRY 4PAT4 COLOR: MASCOT 404325 SIZE: 24" x 24" INSTALLATION: MONOLITHIC LOCATION: TEAM MEETING ROOM
HTF-1	HARD FLOOR TILE	MANUFACTURER: SOUTH CYPRESS STYLE NAME: BEDROCK COLOR: ONYX - MATTE SIZE: 12" X 24", THICKNESS: 10MM INSTALLATION: STAGGERED GROUT: TEC 96G URBAN BRONZE LOCATION: TYPICAL RESTROOMS
HTF-2	HARD FLOOR TILE	MANUFACTURER: CROSSVILLE INC. STYLE NAME: CROSS TREAD COLOR: A880 ONYX SIZE: 8" X 8", THICKNESS: 5/16" INSTALLATION: GRID GROUT: TEC 941 RAVEN LOCATION: CATERING AND CONCESSIONS
LVT-1	LUXURY VINYL TILE	MANUFACTURER: MOHAWK GROUP STYLE NAME: HOT & HEAVY STYLE/COLOR: METAL/959 SO FETCH SIZE: 18" X 36" INSTALLATION: MONOLITHIC LOCATION: TYPICAL LVT
LVT-2	LUXURY VINYL TILE	MANUFACTURER: SHAW STYLE NAME: INLET II COLOR: SUMMIT SIZE: 9" X 48" INSTALLATION: STAGGER LOCATION: FOUNDERS ROOM
LVT-3	LUXURY VINYL TILE	MANUFACTURER: SHAW STYLE NAME: UNION COLOR: IRON SUMMIT SIZE: 9" X 48" INSTALLATION: STAGGER LOCATION: FOUNDERS ROOM
EF-1	EPOXY FLOORING	MANUFACTURER: STONHARD STYLE NAME: STONTECH ERF W/ MEG COLOR: TORGINAL CUSTOM FB3199-HYBRID 1/8" FLAKE LOCATION: LEVEL 1 TOILETS, LOCKER ROOMS
TZ-1	TERRAZZO FLOOR	MANUFACTURER: TERRAZZO & MARBLE SUPPLY COMPANIES STYLE NAME/COLOR: TERROXY/ TM#4-2623 SIZE: POURED IN PLACE, 1/4" THICK DIVIDER STRIPS: BRASS 1/16" LOCATION: MAIN LEVEL CONCOURSE
TZ-2	TERRAZZO FLOOR	MANUFACTURER: TERRAZZO & MARBLE SUPPLY COMPANIES STYLE NAME/COLOR: TERROXY/ TM#24-3345 SIZE: POURED IN PLACE, 1/4" THICK DIVIDER STRIPS: BRASS 1/16" LOCATION: MAIN LEVEL CONCOURSE
TZ-3	TERRAZZO FLOOR	MANUFACTURER: TERRAZZO & MARBLE SUPPLY COMPANIES STYLE NAME/COLOR: TERROXY/TBD SIZE: POURED IN PLACE, 1/4" THICK DIVIDER STRIPS: BRASS 1/16" LOCATION: MAIN LEVEL CONCOURSE
RST-1	RUBBER STAIR TREAD & RISERS	MANUFACTURER: TARKETT STYLE NAME: ANGLE FIT RUBBER TREAD W/ INTEGRATED RISER #VHTR INSERT: SOLID RUBBER COLOR: MT RAINIER COLOR: COLOR SPLASH SPECKLED - VE7 MT RAINIER WG SURFACE TYPE: HAMMERED ACCESSORIES: NOSING - VDL-XX-SQ, AT TOP # MID LANDINGS LANDINGS: MATCH RUBBER TILE TO TREAD/RISER AND SAME DYE LOT LOCATION: STAIRS
RF-1	RUBBER FLOORING	MANUFACTURER: ROPPE STYLE NAME: RECOIL COLOR: #603 SUNFLOWER SIZE: 36" X 36" INTERLOCKING TILES THICKNESS: 1/4" GAUGE LOCATION: WEIGHT ROOM
STR-1	STAIR RISER	MANUFACTURER: JOHNSONITE/TARKETT STYLE NAME: RR-XX COLOR: GATEWAY SIZE: 4" LOCATION: TEAM ROOM
STN-1	STAIR NOSING	MANUFACTURER: JOHNSONITE/TARKETT STYLE NAME: RCN-XX-A COLOR: GATEWAY LOCATION: TEAM ROOM
SC-1	SEALED CONCRETE	MANUFACTURER: SHERWIN WILLIAMS STYLE NAME: 2 COATS CLEAR ARMORSEAL RDXTHANE 1 W/ ANTI-SLIP ADDITIVE H4 C SHARKGRIP LOCATION: WHERE NOTED
WDF-1	WOOD FLOORING	MANUFACTURER: ROBBINS SPORTS SURFACE STYLE NAME: BIO-CHANNEL SB SYSTEM 25/32" CONTINUOUS XL FINGER JOINT NORTHERN HARD MAPLE GAME LINE PAINT: AS RECOMMENDED BY MFG COLORS: ST-1, ST-2, ST-3 - MATCH EXISTING GYM STAIN ST-4 - MINWAX TRUE BLACK 274 LOCATION: MAIN GYM FLOOR
WOC-1	WALK-OFF CARPET	MANUFACTURER: BENTLEY STYLE NAME: ROUGH IDEA SHEAR COLOR: 800117 SHAPE SIZE: 24" X 24" INSTALLATION: ASHLAR LOCATION: ENTRY VESTIBULE

BASE

NUMBER	TYPE	DETAIL DESCRIPTION
RB-1	RUBBER BASE	MANUFACTURER: JOHNSONITE STYLE NAME: TS VULCANIZED RUBBER 1/8" TYPE TV COLOR: TA5 COLONIAL GREY CG SIZE: 4" INSTALLATION: CONTINUOUS COIL LOCATION: TYPICAL WALL BASE
HTB-1	HARD TILE BASE	MANUFACTURER: SOUTH CYPRESS STYLE NAME: BEDROCK COLOR: ONYX - MATTE SIZE: 6" X 12" COVE BASE LOCATION: WHERE NOTED
HTB-2	HARD TILE BASE	MANUFACTURER: CROSSVILLE INC. STYLE NAME: CROSS TREAD COLOR: A880 ONYX SIZE: 6" X 8" COVE BASE LOCATION: CONCESSIONS; CATERING
VB-1	VENTED RUBBER BASE	MANUFACTURER: ROBBINS COLOR: BLACK SIZE: 3" x 4" W/ PRE-MOLDED OUTSIDE CORNERS LOCATION: GYM
EB-1	EPOXY BASE	MANUFACTURER: STONHARD STYLE NAME: MATCH EF-1 COLOR: MATCH EF-1 SIZE: 6" INTEGRAL COVE W/ TOP CAP LOCATION: ALL EF-1 LOCATIONS
TZB-1	TERRAZZO BASE	MANUFACTURER: TERROXY RESIN SYSTEMS STYLE NAME/COLOR: TZ-1 SIZE: 6" COVE LOCATION: TERRAZZO FLOOR LOCATIONS

WALL

NUMBER	TYPE	DETAIL DESCRIPTION
PNT-1	[GENERAL/MAIN PAINT]	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7065 ARGOS LOCATION: MAIN PAINT
PNT-2	[TRIM PAINT]	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7650 ELLIE GRAY LOCATION: TYPICAL TRIM DOORS, WINDOWS, STAIR HANDRAILS
PNT-3	[MAIN CEILING/SOFFIT PAINT]	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7005 PURE WHITE LOCATION: TYPICAL
PNT-4	PAINT	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 6258 TRICORN BLACK LOCATION: WHERE NOTED
PNT-5	PAINT	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7647 CRUSHED ICE LOCATION: WHERE NOTED
PNT-6	PAINT	MANUFACTURER: SHERWIN WILLIAMS COLOR: SW 7636 ORIGAMI WHITE LOCATION: CLASSROOMS
HTW-1	HARD WALL TILE	MANUFACTURER: CROSSVILLE INC. STYLE NAME: COLOR BLOX. 2.0 COLOR: SLINKY SIZE: 12" X 24" INSTALLATION: HORIZONTAL STACK GROUT: CUSTOM 335 WINTER GRAY LOCATION: PUBLIC RESTROOMS
HTW-2	HARD WALL TILE	MANUFACTURER: CROSSVILLE STUDIOS STYLE NAME: POTTERY PORCELAIN TILE COLOR: EQUAL AMOUNTS OF ALL COLORS: HTW-2A: GOLD HTW-2B: GRAPHITE HTW-2C: GREY HTW-2D: NATURAL INSTALLATION: VERTICAL STACK GROUT: TEC 96G URBAN BRONZE SIZE: 2" X 6" LOCATION: CONCESSIONS AND PUBLIC RESTROOMS
HTW-3	HARD WALL TILE	MANUFACTURER: CROSSVILLE INC. STYLE NAME: NATIVE METAL COLOR: CHAMPAGNE GOLD SIZE: 2" X 12"; THICKNESS: 9.5MM INSTALLATION: VERTICAL STACK GROUT: CUSTOM 145 LIGHT SMOKE LOCATION: WATER COOLER WALLS

MISC

NUMBER	TYPE	DETAIL DESCRIPTION
PL-1	PLASTIC LAMINATE	MANUFACTURER: FORMICA STYLE NAME: NATURAL GRAIN TEXTURE COLOR: BLACK BIRCH(PLY 8552-NG LOCATION: CONCESSIONS CASEWORK, RR VANITIES
PL-2	PLASTIC LAMINATE	MANUFACTURER: NEVAMAR STYLE/COLOR: DRY CREEK PLUM TREE WZGDO1-T LOCATION: TYPICAL CASEWORK
PL-3	PLASTIC LAMINATE	MANUFACTURER: WILSONART STYLE/COLOR: BEIGEWOOD 7850-60 LOCATION: TROPHY CASE WOOD COLOR
PL-4	PLASTIC LAMINATE	MANUFACTURER: FENIX STYLE/COLOR: COLOR THROUGH/J0720 NERO LOCATION: LOBBY
PL-5	PLASTIC LAMINATE	MANUFACTURER: CHEMETAL STYLE/COLOR: 936 CHAMPAGNE BRASS ALUM LOCATION: LOBBY
MTL-1	METAL PANEL	MANUFACTURER: GAGE ARCHITECTURAL PRODUCTS PRODUCT: GM4724 COLOR: BLACK ORGANIC LOCATION: CONCESSIONS WALL
SS-1	SOLID SURFACE	MANUFACTURER: BRADLEY CORP-TERREON COLOR: WHITE SAND THICKNESS: 1/2" LOCATION: BRADLEY TLX COUNTERTOP
SS-2	SOLID SURFACE	MANUFACTURER: LX HAUSYS PRODUCT: HI-MACS COLOR: RO09 PAUSE (6%) THICKNESS: 1/2" LOCATION: TYPICAL SOLID SURFACE COUNTERTOPS
SS-3	SOLID SURFACE	MANUFACTURER: CORIAN COLOR: CIRRUS WHITE THICKNESS: 1/2" LOCATION: WINDOW SILLS
QS-1	QUARTZ SURFACE	MANUFACTURER: WILSONART COLOR: HAIDA Q4008 THICKNESS: 1/2" LOCATION: CONCESSIONS COUNTERTOPS
AWP-1	ACOUSTICAL WALL PANELS	MANUFACTURER: CONWED STYLE: RESPOND A FABRIC MANUFACTURER/COLOR: CARNEGIE XOREL/FLUX 65575 / 80 SIZE: 4'-0"W x 5'-0"H THICKNESS: 2" INSTALLATION: Z-CLIPS LOCATION: GYM
TP-1	TOILET PARTITIONS	MANUFACTURER: SCRANTON STYLE NAME: HINY HIDERS COLOR: CONCRETE ORANGE PEEL LOCATION: TYPICAL
RS-1	ROLLER SHADES	MANUFACTURER: DRAPER STYLE NAME: FLEXSHADE COLOR: 3% E SCREEN CHARCOAL SIZE: FIELD VERIFY LOCATION: WHERE NOTED

CASEWORK SCHEDULE

NOTE: CABINET DESIGN SERIES (CDS) NUMBERS BASED ON AWI STANDARDS EDITION 2

CDS #	CASEWORK TYPE	DESCRIPTION
100	BASE CAB	OPEN W/ ADJUSTABLE SHELVES
101	BASE CAB	5GL DOOR
102	BASE CAB	DBL DOOR
188	BASE CAB	DBL DOOR
222	BASE CAB	DBL DOORS / DBL DRWRS
230	BASE CAB	3 FILES
254	BASE CAB	4 FILES
301	WALL CAB	5GL DOOR
302	WALL CAB	DBL DOORS
402	TALL 5TG	DBL DOOR
435	TOTE TRAY CABINET	DBL DOOR
ADA	BASE CAB	ADA SINK

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ISSUE DATE
DCM FINAL SUBMITTAL 11.16.24

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CHECKED BY: Checker

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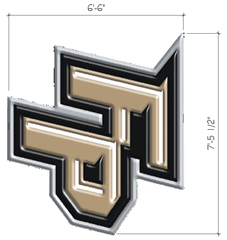
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

FINISH LEGEND & SCHEDULE

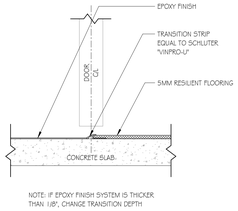
A8.00

11/18/2024 6:25:24 PM TEMPLATE VERSION: 2022.1



L1 FP CENTER LOGO
SCALE: 1/2" = 1'-0"

L3 FP BORDER LOGO
SCALE: 1/2" = 1'-0"



L5 09- EPOXY TO 5MM RESILIENT
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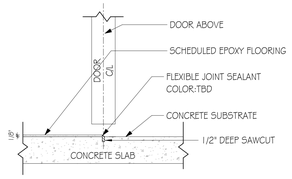
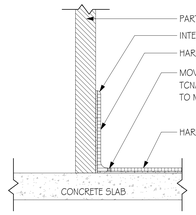
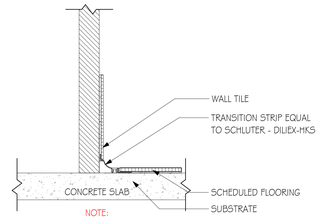


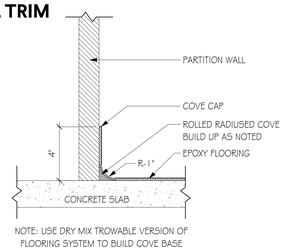
L7 EPOXY TO SEALED CONCRETE
SCALE: 3" = 1'-0"



L11 COVE BASE - HT TO HT COVE BASE - INTEGRAL TRIM
SCALE: 3" = 1'-0"



L12 09- METAL COVE
SCALE: 3" = 1'-0"



J11 COVE BASE - EPOXY
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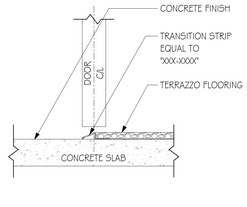
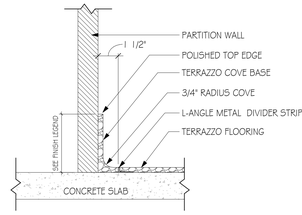


J12 CONCRETE TO TERRAZZO
SCALE: 3" = 1'-0"



H11 COVE BASE - TERRAZZO
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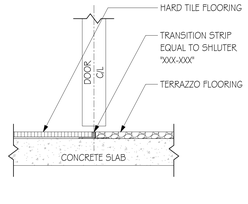
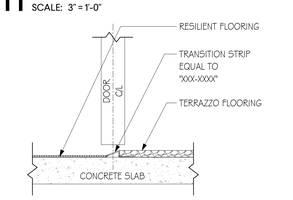
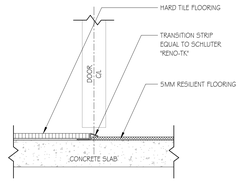


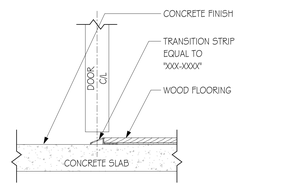
H12 HARD TILE TO TERRAZZO
SCALE: 3" = 1'-0"



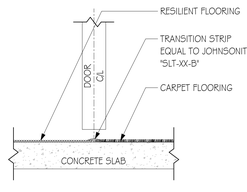
F11 RESILIENT TO TERRAZZO1
SCALE: 3" = 1'-0"



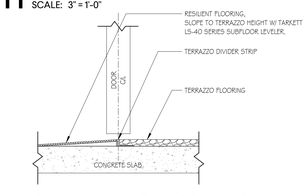
F12 09- HARD TILE TO 5MM RESILIENT
SCALE: 3" = 1'-0"



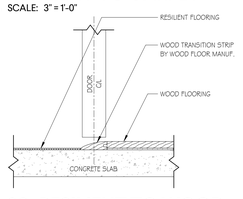
D11 CONCRETE TO WOOD
SCALE: 3" = 1'-0"



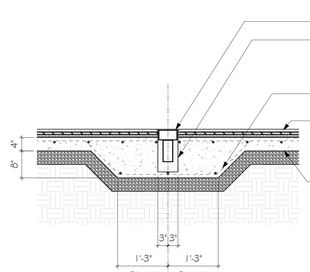
D12 RESILIENT TO CARPET
SCALE: 3" = 1'-0"



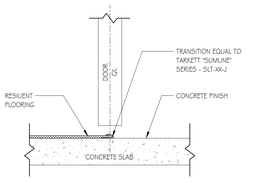
B11 RESILIENT TO TERRAZZO
SCALE: 3" = 1'-0"



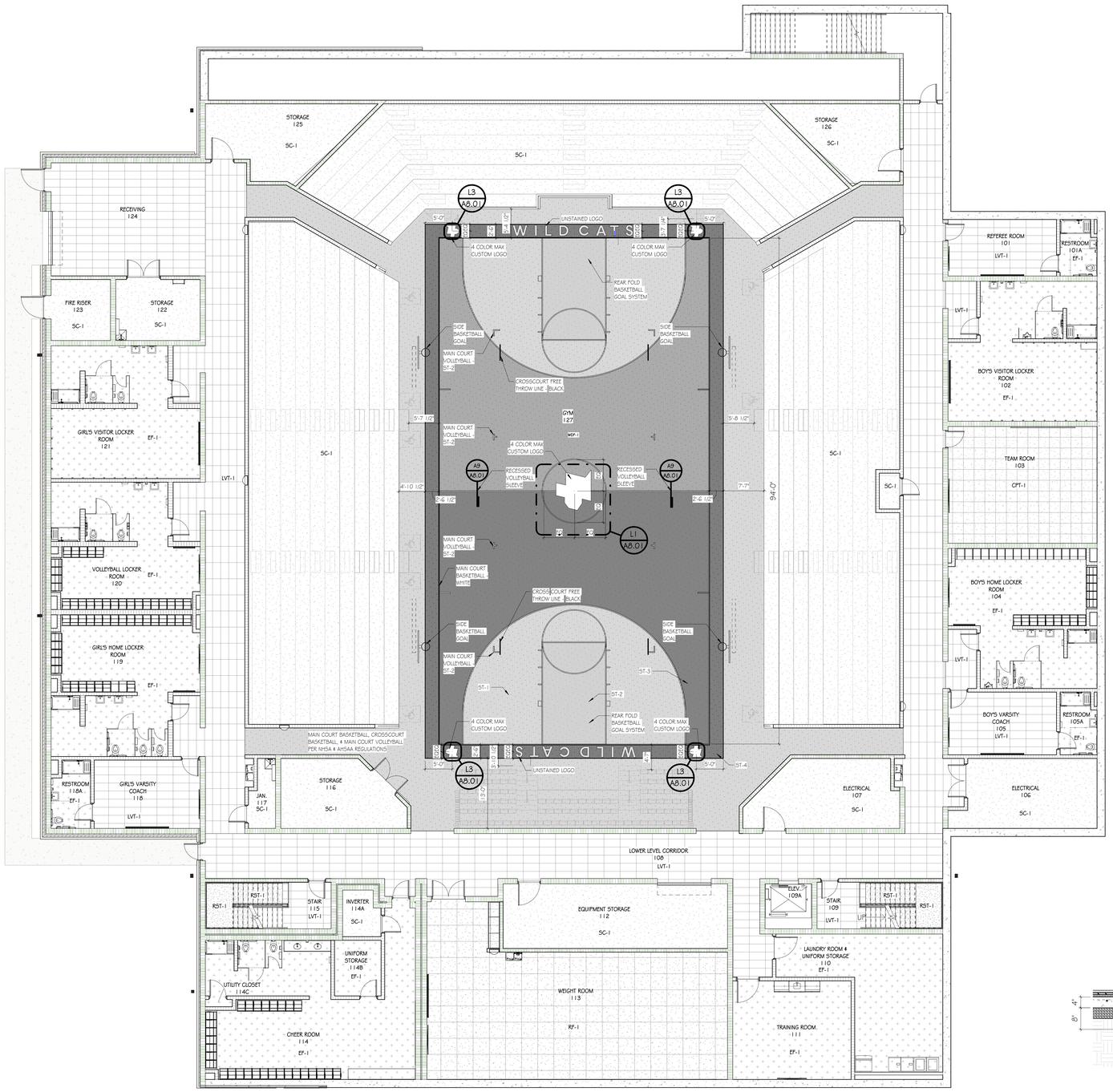
B12 09- RESILIENT TO WOOD
SCALE: 3" = 1'-0"



A9 VOLLEYBALL POST FLOOR DETAIL
SCALE: 3/4" = 1'-0"



A12 09- RESILIENT TO CONCRETE - RUBBER
SCALE: 3" = 1'-0"



A1 FINISH PLAN - LOWER LEVEL
SCALE: 1/8" = 1'-0"

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.18.24

DRAWN BY: Author
CHECKED BY: Checker

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

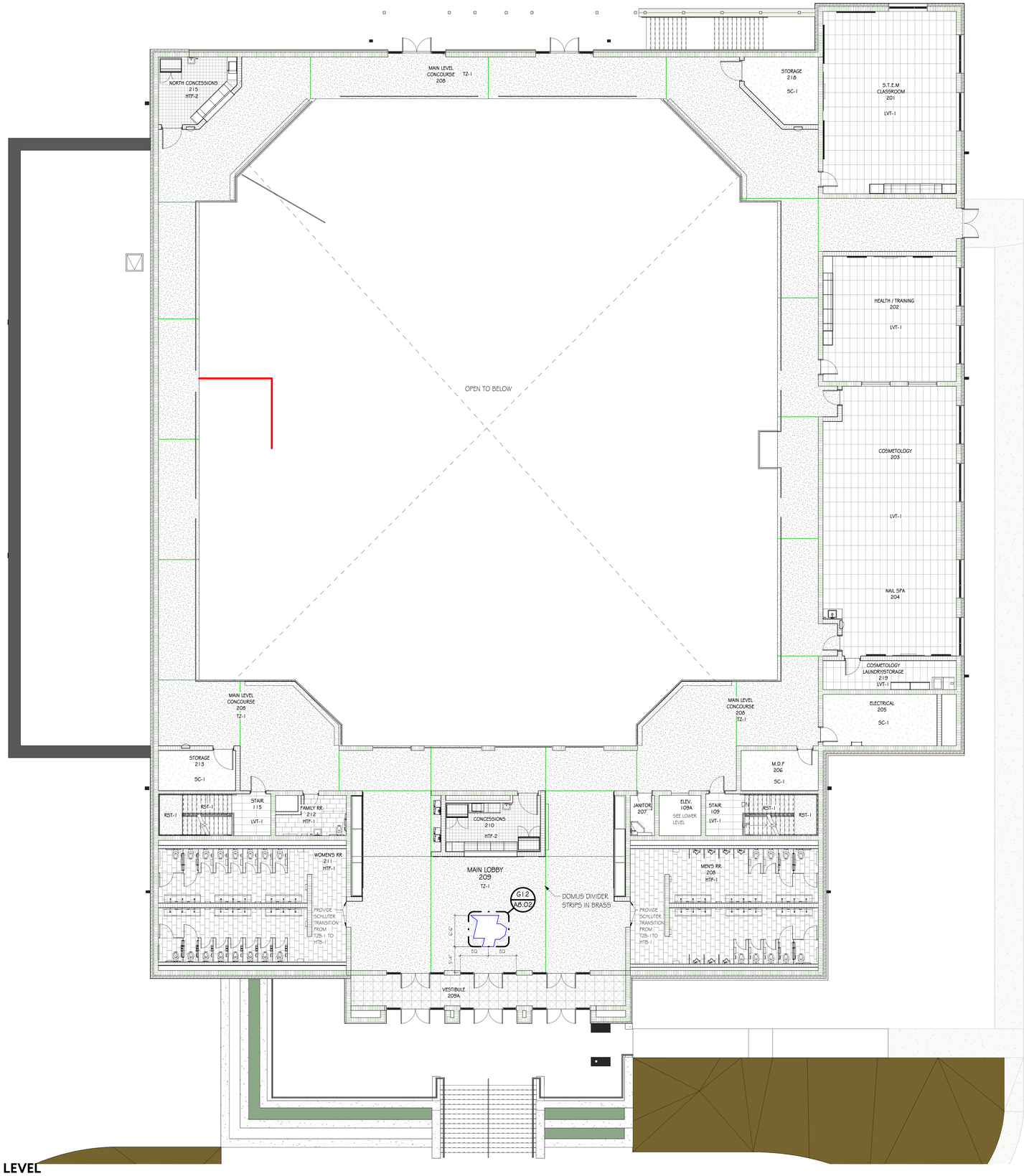
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

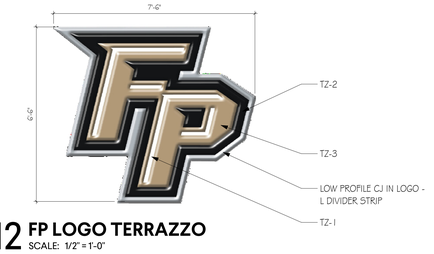
FINISH PLAN - LOWER LEVEL

A8.01

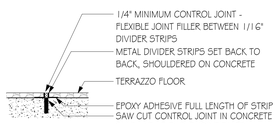
11/18/2024 6:26:20 PM TEMPLATE VERSION: 2022.1



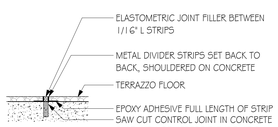
A1 FINISH PLAN - MAIN LEVEL
SCALE: 1/8" = 1'-0"



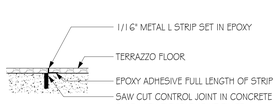
G12 FP LOGO TERRAZZO
SCALE: 1/2" = 1'-0"



D12 TZF TO CJ
SCALE: 3" = 1'-0"



C12 TZF TO ISOLATION JOINT
SCALE: 3" = 1'-0"



A12 TZF TO LOW PROFILE CJ
SCALE: 3" = 1'-0"

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DCM FINAL SUBMITTAL	11/14/24

DRAWN BY: Author
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Owens Cross Roads, Alabama
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2014 5th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

FINISH PLAN - MAIN LEVEL

A8.02

11/18/2024 6:26:31 PM TEMPLATE VERSION: 2022.1

A8.03

FINISH PLAN - UPPER LEVEL

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 2024054B
GMC AHUN230009

STATE of ALABAMA ARCHITECT REGISTERED
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Owens Cross Roads, Alabama

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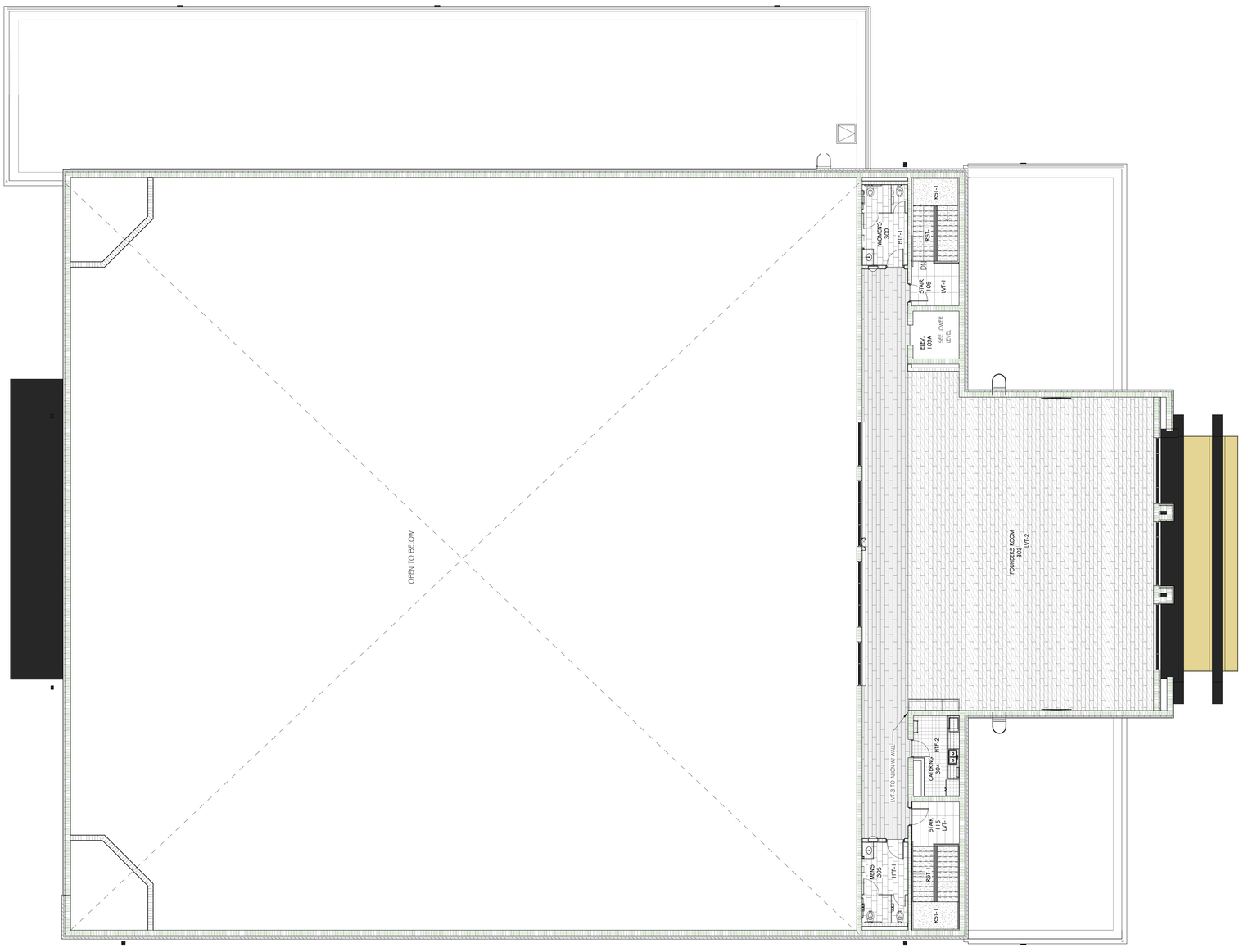


A1 FINISH PLAN - UPPER LEVEL
SCALE: 1/8" = 1'-0"

11/18/2024 6:26:37 PM TEMPLATE VERSION: 2022.1

SIGNAGE SCHEDULE				
PLAN NUMBER	PLAN NAME	SIGN TYPE	MESSAGE ROOM NAME	SIGNAGE COMMENTS
101	REFEREE ROOM	A4	REFEREE ROOM	
101A	RESTROOM	A6	RESTROOM	ALL SYMBOLS
102	BOYS VISITOR LOCKER ROOM	A3	BOYS VISITOR LOCKER ROOM	
103	TEAM ROOM	A3	TEAM ROOM	
104	BOYS HOME LOCKER ROOM	A3	BOYS HOME LOCKER ROOM	
105	BOYS VARSITY COACH	A4	BOYS VARSITY COACH	
105A	RESTROOM	A6	RESTROOM	ALL SYMBOLS
106	ELECTRICAL	A2	ELECTRICAL	
107	ELECTRICAL	A2	ELECTRICAL	
108	LOWER LEVEL CORRIDOR	-		
109	STAIR	A7, A9		PROVIDE EACH SIGN AT EACH FLOOR
109A	ELEV.	A7		PROVIDE AT EACH FLOOR
110	LAUNDRY ROOM & UNIFORM STORAGE	A2	LAUNDRY & UNIFORM STORAGE	
111	TRAINING ROOM	A4	TRAINING ROOM	
112	EQUIPMENT STORAGE	A2	STORAGE	
113	WEIGHT ROOM	A3	WEIGHT ROOM	
114	CHEER ROOM	A3	CHEER ROOM	
114A	INVERTER	A2	INVERTER	
114B	UNIFORM STORAGE	A2	STORAGE	
114C	UTILITY CLOSET	A2	UTILITY	
115	STAIR	A7, A9		PROVIDE EACH SIGN AT EACH FLOOR
116	STORAGE	A2	STORAGE	
117	JAN.	A2	JANITOR	
118	GIRLS VARSITY COACH	A4	GIRLS VARSITY COACH	
118A	RESTROOM	A6	RESTROOM	ALL SYMBOLS
119	GIRLS HOME LOCKER ROOM	A3	GIRLS HOME LOCKER ROOM	
120	VOLLEYBALL LOCKER ROOM	A3	VOLLEYBALL LOCKER ROOM	
121	GIRLS VISITOR LOCKER ROOM	A3	GIRLS VISITOR LOCKER ROOM	
122	STORAGE	A2	STORAGE	
123	FIRE RISER	A2	FIRE RISER	
124	RECEIVING	A2	RECEIVING	
125	STORAGE	A2	STORAGE	
126	STORAGE	A2	STORAGE	
126	STORAGE	A2	STORAGE	
127	GYM	A3	GYM	ALL ENTRANCES TO GYM
128	CLOSET	A2	STORAGE	
137	UPPER CORRIDOR	-		
201	S.T.E.M CLASSROOM	A3	S.T.E.M.	
202	HEALTH / TRAINING	A3	HEALTH	
203	COSMETOLOGY	A3	COSMETOLOGY	
204	NAIL SPA	A3	COSMETOLOGY	
205	ELECTRICAL	A2	ELECTRICAL	
206	M.D.F	A2	M.D.F.	
207	JANITOR	A2	JANITOR	
208	MENS RR	A6	MENS	MALE & HANDICAP SYMBOLS (MOUNT ON SOUTH WALL)
208	MAIN LEVEL CONCOURSE	-		
209	MAIN LOBBY	-		
209A	VESTIBULE	-		
209B	ELEV.	A7		PROVIDE AT EACH FLOOR
210	CONCESSIONS	-		
211	WOMENS RR	A6	WOMENS	FEMALE & HANDICAP SYMBOLS (MOUNT ON SOUTH WALL)
212	FAMILY RR	A6	RESTROOM	ALL SYMBOLS
213	STORAGE	A2	STORAGE	
215	NORTH CONCESSIONS	A2	NORTH CONCESSIONS	
218	STORAGE	A2	STORAGE	
219	COSMETOLOGY LAUNDRY/STORAGE			
300	WOMENS	A6	WOMENS	FEMALE & HANDICAP SYMBOLS
303	FOUNDERS ROOM	A3	FOUNDERS ROOM	
304	CATERING	A2	CATERING KITCHEN	
305	MENS	A6	MENS	MALE & HANDICAP SYMBOLS

SIGNAGE NOTES:

1. ALL SIGNS TO BE MECHANICALLY FASTENED TO WALL

2. DO NOT USE ROOM NUMBERS ON DRAWINGS - OWNER WILL PROVIDE NEW ROOM NUMBERS

3. ALL ROOM NAMES TO BE VERIFIED WITH OWNER.

4. ROOM SIGNAGE TO BE MOUNTED TO COMPLY WITH ADA 703.4.1. COORDINATE WITH ARCHITECT FOR ANY OBSTRUCTION ISSUES FOR MOUNTING SIGNS.

5. COMPLY WITH STANDARDS FOR ACCESSIBLE DESIGN - INCLUDING BUT NOT LIMITED TO SECTION 7.03. IT IS THE RESPONSIBILITY OF THE SIGNAGE SUPPLIER AND INSTALLER TO MEET ADA REQUIREMENTS FOR SIGNAGE FONT SIZE, BRAILLE TYPE, GRAPHIC SYMBOLS, CONTRAST, MOUNTING HEIGHTS, ETC. SHOP DRAWINGS SHALL CLEARLY ILLUSTRATE COMPLIANCE WITH CURRENT ADA STANDARDS.

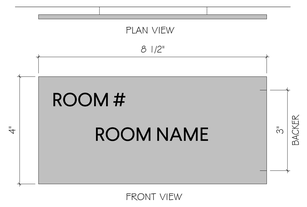
6. PROVIDE SIGN PER DOOR FOR EACH ROOM.

7. PROVIDE EXTERIOR GRADE SIGNS FOR ANY SIGNS ON EXTERIOR OF BUILDING.

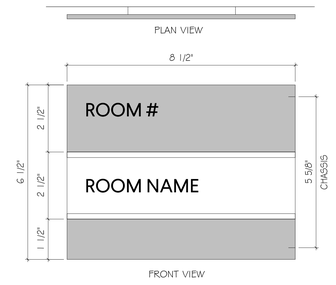
8. PROVIDE QUANTITY OF 3 EXIT ONLY SIGNS.

SIGNAGE TYPES:

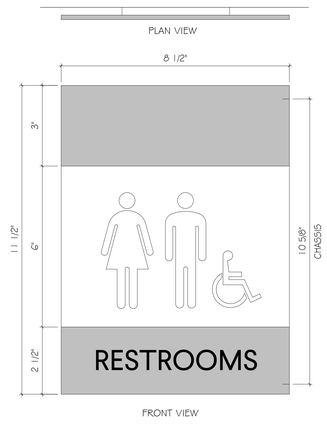
BASED ON APCO SIGNS ELEVATE SERIES



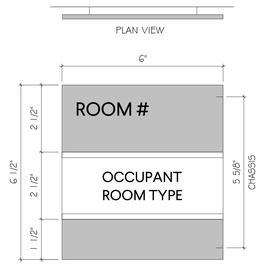
TYPE: A2 (EV85)
SIZE: 4" X 8.5"
MOUNTING: VT
QUANTITY: SEE SCHEDULE



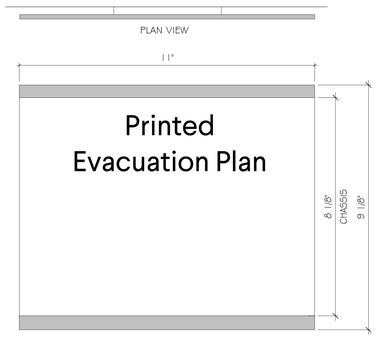
TYPE: A3 (EV85)
SIZE: 8.5" X 6 5/8"
MOUNTING: VT
QUANTITY: SEE SCHEDULE



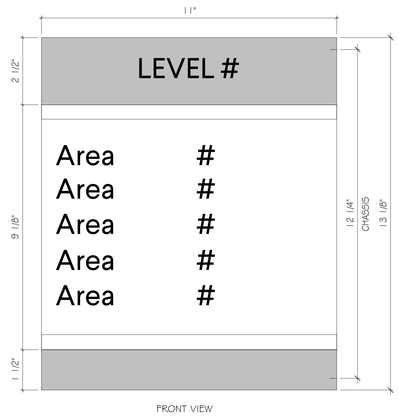
TYPE: A6 (EV85)
SIZE: 8.5" X 11 5/8"
SYMBOL: A5 REQUIRED
MOUNTING: VT
QUANTITY: SEE SCHEDULE



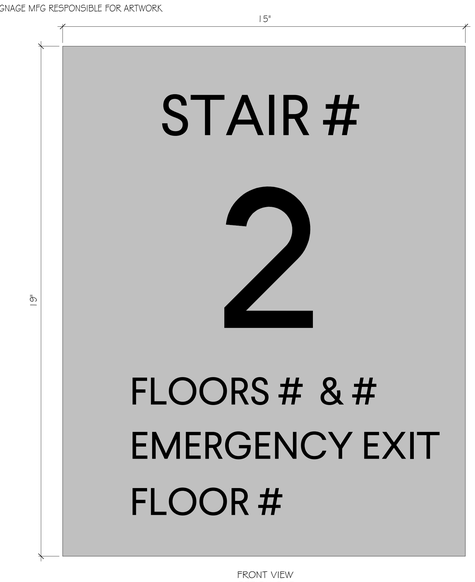
TYPE: A4 (EV06)
SIZE: 6" X 6 5/8"
MOUNTING: VT
QUANTITY: SEE SCHEDULE



TYPE: A8 (EV11)
SIZE: 11" X 9 1/8"
MOUNTING: VT
QUANTITY: SEE LIFE SAFETY PLANS
*SIGNAGE MFG RESPONSIBLE FOR ARTWORK



TYPE: A7 (EV11)
SIZE: 11" X 13.25"
MOUNTING: VTMPH
QUANTITY: SEE SCHEDULE



TYPE: A9 (ACRYLIC PLAQUE SERIES)
SIZE: 19" X 15" X 1/8" THICK
MOUNTING: VT
QUANTITY: SEE SCHEDULE

GMC

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

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GMC AHUN230009

SIGNAGE PLAN

A9.01

11/18/2024 6:26:43 PM TEMPLATE VERSION: 2022.1

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ABBREVIATIONS AND ACRONYMS

(APPLIES TO ALL MECHANICAL SHEETS)

%	PERCENT
°	DEGREE
°C	DEGREE CELSIUS
°F	DEGREE FAHRENHEIT
Δ	DIFFERENCE
AAV	AIR ADMITTANCE VALVE
AC	ALTERNATING CURRENT
ACH	AIR CHANGES PER HOUR
ACU	AIR-CONDITIONING UNIT(S)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR-HANDLING UNIT
AMB	AMBIENT
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ATM	ATMOSPHERE
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION SYSTEM
BEP	BEST EFFICIENCY POINT
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BASIS OF DESIGN
BP	BOILING POINT
BT	BUFFER TANK
BTU	BRITISH THERMAL UNIT
BTU/H	BRITISH THERMAL UNIT PER HOUR
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWP	CHILLED WATER PUMP
CLG	COOLING OR CEILING
CO	CLEANOUT
COMP	COMPRESSOR
COORD	COORDINATE
COP	COEFFICIENT OF PERFORMANCE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRAH	COMPUTER ROOM AIR HANDLING UNIT
CS	CURRENT SWITCH
CT	COOLING TOWER
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CU IN	CUBIC INCH
C.-	COEFFICIENT, VALVE FLOW
CWP	CONDENSER WATER PUMP
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL
DBT	DRY-BULB TEMPERATURE
DC	DIRECT CURRENT
DCV	DEMAND CONTROL VENTILATION
DD	DIRECT DRIVE
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DPT	DEW-POINT TEMPERATURE
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRONICALLY COMMUTATED
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EL	ELEVATION
ENT	ENTERING
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FAS	FIRE ALARM SYSTEM
FCU	FAN COIL UNIT
FEI	FAN ENERGY INDEX
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPTU	FAN POWERED TERMINAL UNIT
FSK	FOIL, SCRIM, AND KRAFT PAPER
FT	FOOT OR FEET
FT LB	FOOT-POUND
GAL	GALLONS
GPM	GALLONS PER MINUTE
GR	GRAINS
GV	GRAVITY VENTILATOR
H/P	HEAT PUMP
H2O	WATER
HD	HEAD
HEPA	HIGH-EFFICIENCY PARTICULATE AIR FILTER
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HRV	HEAT RECOVERY VENTILATOR
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HTG	HEATING
HVAC	HEATING, VENTILATING, AND AIR-CONDITIONING
HX	HEAT EXCHANGER
HZ	HERTZ (FREQUENCY)
IAQ	INDOOR AIR QUALITY
ICC	INTERNATIONAL CODE COUNCIL
IE	INVERT ELEVATION
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN	INCH
IPLV	INTEGRATED PART LOAD VALUE
IPS	INTERNATIONAL PIPE STANDARD OR IRON PIPE SIZE
K	THERMAL CONDUCTIVITY
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LHG	LATENT HEAT GAIN
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MBH	1,000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHGRH	MODULATING HOT GAS REHEAT
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
N C	NORMALLY CLOSED
N I C	NOT IN CONTRACT
N O	NORMALLY OPEN
N T S	NOT TO SCALE
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NPSH	NET POSITIVE SUCTION HEAD
NPT	NATIONAL PIPE THREAD
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
PD	PRESSURE DROP
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	THERMAL RESISTANCE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RD	ROOF DRAIN
RECIRC	RECIRCULATE
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S	SECOND
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCFM	CFM, STANDARD CONDITIONS
SCR	SILICON CONTROLLED RECTIFIER
SD	SUCTION DIFFUSER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SG	SPECIFIC GRAVITY
SH	SENSIBLE HEAT
SHG	SENSIBLE HEAT GAIN
SHR	SENSIBLE HEAT RATIO
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SP HT	SPECIFIC HEAT
SP VOL	SPECIFIC VOLUME
SPEC	SPECIFICATION
SQ	SQUARE
SQ FT	SQUARE FEET
SS	SPLIT SYSTEM
SSR	SOLID STATE RELAY
STD	STANDARD
STR	STARTER (MOTOR)
T STAT	THERMOSTAT
TAB	TESTING, ADJUSTING, AND BALANCING
TDV	TRIPLE DUTY VALVE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TONS	TONS OF REFRIGERATION
TSP	TOTAL STATIC PRESSURE
TXV	THERMAL EXPANSION VALVE
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENTILATION, VENT
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VRF	VARIABLE REFRIGERANT FLOW
W	WATT
W/	WITH
WBT	WET-BULB TEMPERATURE
WC	WATER COLUMN
WG	WATER GAGE

DUCTWORK

- 24"x12" — RECTANGULAR DUCTWORK (FIRST DIMENSION IS SIDE SHOWN)
- SUPPLY DUCT SECTION, UP
- SUPPLY DUCT SECTION, DOWN
- RETURN DUCT SECTION, UP
- RETURN DUCT SECTION, DOWN
- EXHAUST DUCT SECTION, UP
- EXHAUST DUCT SECTION, DOWN
- ROUND DUCT SECTION, UP
- ROUND DUCT SECTION, DOWN
- U/D — CHANGE OF ELEVATION (UP/DOWN)
- DUCT TRANSITION
- MANUAL VOLUME DAMPER
- FLEX DUCT
- CEILING SUPPLY DIFFUSER
- CEILING SUPPLY DIFFUSER (ROUND)
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE
- SIDEWALL GRILLE
- TURNING VANES
- AIR FILTER

PIPING SYSTEMS

CW	DOMESTIC COLD WATER PIPING
HW	DOMESTIC HOT WATER PIPING
HWC	DOMESTIC HOT WATER CIRCULATING PIPING
SAN	SANITARY DRAIN PIPING (ABOVE SLAB)
SAN U/G	SANITARY DRAIN PIPING (UNDERGROUND)
ST	STORM DRAIN PIPING (ABOVE SLAB)
STO	STORM OVERFLOW PIPING
ST U/G	STORM DRAIN PIPING (UNDERGROUND)
V	VENT PIPING
G	GAS PIPING
CD	CONDENSATE PIPING
CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHILLED WATER RETURN PIPING
CWS	CONDENSER WATER SUPPLY PIPING
CWR	CONDENSER WATER RETURN PIPING
A	COMPRESSED AIR PIPING

PIPING

- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GATE, ANGLE VALVE
- GLOBE VALVE
- GLOBE, ANGLE VALVE
- PLUG VALVE
- DIAPHRAGM VALVE
- NEEDLE VALVE
- LOCK SHIELD VALVE
- SAFETY OR RELIEF VALVE
- PRESSURE-REDUCING REGULATOR
- THREE WAY VALVE
- S — ELECTRIC SOLENOID VALVE
- M — ELECTRIC MOTOR ACTUATED 2-WAY VALVE
- M — ELECTRIC MOTOR ACTUATED 3-WAY VALVE
- BACKFLOW PREVENTER (SMALL ASSEMBLY)
- BACKFLOW PREVENTER (LARGE ASSEMBLY)
- PIPE CAP
- PIPE ELBOW, DOWN
- PIPE ELBOW, UP
- PIPE TEE, DOWN
- PIPE TEE
- P-TRAP
- UNION
- AUTOMATIC AIR VENT
- FS — FLOW SWITCH
- PS — PRESSURE SWITCH
- PRESSURE GAGE AND COCK
- PUMP
- STRAINER
- STRAINER, BLOW OFF
- THERMOMETER
- PSD — PUMP SUCTION DIFFUSER
- FLEXIBLE CONNECTOR
- TEST PLUG

CONTROLS

- DI / DO / # — DIGITAL INPUT / DIGITAL OUTPUT WITH CONTROL POINT REFERENCE #
- AI / AO / # — ANALOG INPUT / ANALOG OUTPUT WITH CONTROL POINT REFERENCE #
- T — SPACE THERMOSTAT
- TO FAS — DUCT-MOUNTED SMOKE DETECTOR
- F — AIRFLOW STATION
- T / T / FZ — DUCT-MOUNTED TEMPERATURE SENSOR / SPACE TEMPERATURE SENSOR / FREEZE STAT
- RH / RH — DUCT-MOUNTED RH SENSOR / SPACE RH SENSOR
- CO_2 / CO_2 — DUCT-MOUNTED CO_2 SENSOR / SPACE CO_2 SENSOR
- H — DUCT-MOUNTED ENTHALPY SENSOR
- SP — DUCT-MOUNTED STATIC PRESSURE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- M — MANUAL OPPOSED BLADE DAMPER / ELECTRIC MOTOR ACTUATED OPPOSED BLADE DAMPER (24V UNO)
- M — MANUAL PARALLEL BLADE DAMPER / ELECTRIC MOTOR ACTUATED PARALLEL BLADE DAMPER (24V UNO)
- M — MANUAL SINGLE BLADE DAMPER / ELECTRIC MOTOR ACTUATED SINGLE BLADE DAMPER (24V UNO)
- BAROMETRIC RELIEF DAMPER
- CENTRIFUGAL FAN
- PLENUM FAN
- AXIAL FAN
- DX COOLING COIL
- DX HEAT PUMP COIL
- CHILLED WATER COOLING COIL
- HEATING HOT WATER COIL
- HYDRONIC CHANGEOVER COIL
- ELECTRIC HEATING COIL
- GAS BURNER

ANNOTATIONS

- # — KEYNOTE
- SD-1 - 6"ø 120 CFM — DIFFUSER TAG: TYPE - SIZE / CFM OR TYPE
- RTU-1 — EQUIPMENT TAG (REFER TO SCHEDULES)
- ? / ? — ENLARGED PLAN OR DETAIL CALL-OUT
- ? / ? — SECTION CALL-OUT

DESIGN PARAMETERS

INDOOR CONDITIONS				OUTDOOR CONDITIONS			
COOLING		HEATING		COOLING		HEATING	
DBT (°F)	% RH	DBT (°F)	% RH	DBT (°F)	WBT (°F)	DBT (°F)	WBT (°F)
75	50	70	50	95.4	75	18	15.4

NOTES:
OUTDOOR COOLING CONDITIONS BASED ON DRY BULB TEMPERATURE CORRESPONDING TO 0.4% ANNUAL CUMULATIVE FREQUENCY OF OCCURRENCE AND MEAN COINCIDENT WET BULB TEMPERATURE. OUTDOOR HEATING CONDITIONS BASED ON DRY BULB TEMPERATURE CORRESPONDING TO 99.6% ANNUAL CUMULATIVE FREQUENCY OF OCCURRENCE.

GMC

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ISSUE | DATE
DCM FINAL SUBMITTAL | 11.14.24

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201 45h STREET NE,
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DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED No. 38810 PROFESSIONAL ENGINEER 11/14/2024 ENGINEER ANDREAS R. KEIM

MECHANICAL ABBREVIATIONS & LEGENDS

M0.01

11/14/2024 3:06:54 PM TEMPLATE VERSION: 2022.1

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AL CERT OF AUTH: ECA00597

MECHANICAL GENERAL NOTES:

A. THE GENERAL CONTRACTOR SHALL CONDUCT PRE-CONSTRUCTION COORDINATION MEETINGS TO ENSURE HVAC DUCT ROUTING IS COORDINATED WITH OTHER DISCIPLINES, INCLUDING STRUCTURAL MEMBERS, PLUMBING PIPING, LIGHTING FIXTURES, CABLING, ETC.

B. THE MECHANICAL CONTRACTOR SHALL MAINTAIN MANUFACTURER'S RECOMMENDED MINIMUM CLEARANCES WHEN INSTALLING HVAC EQUIPMENT. EQUIPMENT LOCATED ABOVE CEILINGS SHALL NOT BE PLACED ABOVE WALLS OR OTHER OBSTRUCTIONS THAT WOULD PREVENT REPLACEMENT OF THE UNIT.

C. UNLESS NOTED OTHERWISE, ROUTE DUCTWORK TIGHT TO THE BOTTOM OF STRUCTURE.

D. ALL CONCEALED SUPPLY-AIR DUCTWORK SHALL BE INSULATED WITH MINIMUM R-6 FIBERGLASS DUCT WRAP WITH AN FSK VAPOR BARRIER. ROUND SUPPLY-AIR DUCTWORK IN EXPOSED AREAS SHALL BE DOUBLE-WALL SPIRAL DUCT WITH A PAINT-GRIP EXTERIOR, A GALVANIZED SHEET METAL INTERIOR, AND MINIMUM 1" FIBERGLASS INTERSTITIAL INSULATION.

E. DUCTWORK USED FOR TRANSFER AIR SHALL BE LINED WITH 1" ACOUSTIC FIBERGLASS DUCT LINER.

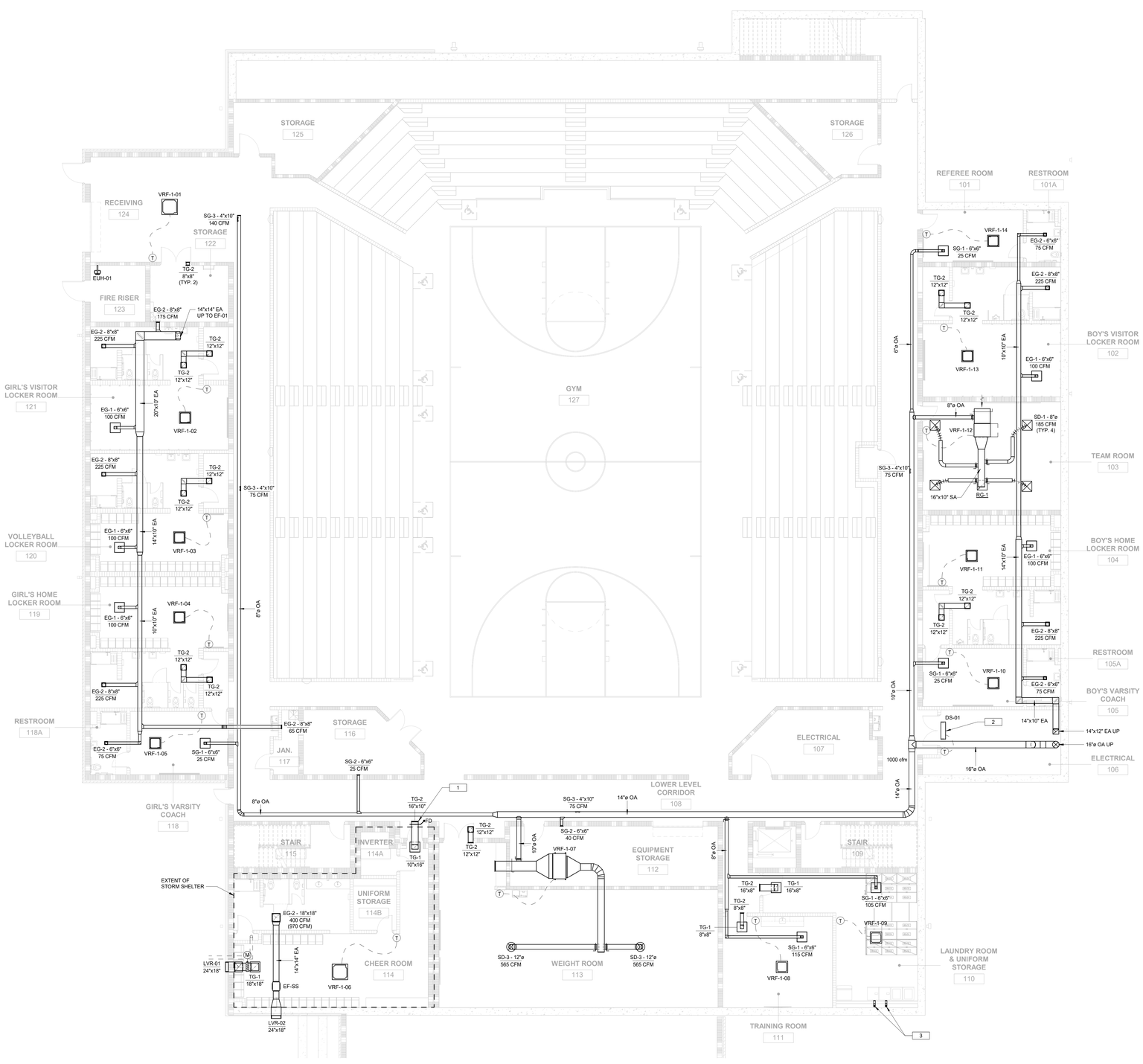
F. EXHAUST AIR DUCTWORK DOES NOT REQUIRE INSULATION UNLESS NOTED OTHERWISE.

G. ROUTE CONDUIT FOR WALL-MOUNTED THERMOSTATS AND OTHER CONTROL DEVICES IN STUD-FRAMED GYPSUM WALLS OR IN HOLLOW CORE CMU WALLS. CONDUIT ROUTING SHALL BE COORDINATED AS CMU WALLS ARE CONSTRUCTED. SURFACE-MOUNTED RIGID CONDUIT FOR HVAC CONTROL WIRING IS NOT ACCEPTABLE. PROVIDE VANDAL-PROOF, LOCKABLE COVERS FOR ALL THERMOSTATS AND CONTROL DEVICES.

H. FLEX DUCT CONNECTING TO SUPPLY DIFFUSERS SHALL BE A MAXIMUM OF 5 FEET IN LENGTH.

MECHANICAL KEYED NOTES: #

1. PROTECT TRANSFER DUCT OPENING IN STORM SHELTER WALL WITH A FIRE DAMPER AND A FEMA & ICC 500 RATED IMPACT RESISTANT WALL SHROUD.
2. INSTALL THE WALL-MOUNTED DUCTLESS MINI-SPLIT A MINIMUM 12" ABOVE ENTRY DOOR. CONTRACTOR TO ENSURE MANUFACTURER'S MINIMUM CLEARANCES.
3. ROUTE 4"ø DRYER VENT DUCT FOR EACH DRYER IN CHASE WALL. USE 45° ELBOWS IN LIEU OF 90° ELBOWS WHERE POSSIBLE. TERMINATE WITH FLUSH DRYER WALL VENT WITH INTEGRAL BACKDRAFT DAMPER. TO BE APPROVED BY ARCHITECT, AND LOCATED A MINIMUM OF 3 FT. ABOVE GRADE. SEE FLOOR PLAN ON SHEET M1.02.



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

0 4' 8' 16' 24'
1/8" = 1'-0"

GMC

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DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 28810
11/14/2024
ANDREAS R. HAHN

MECHANICAL PLAN LOWER LEVEL

M1.01

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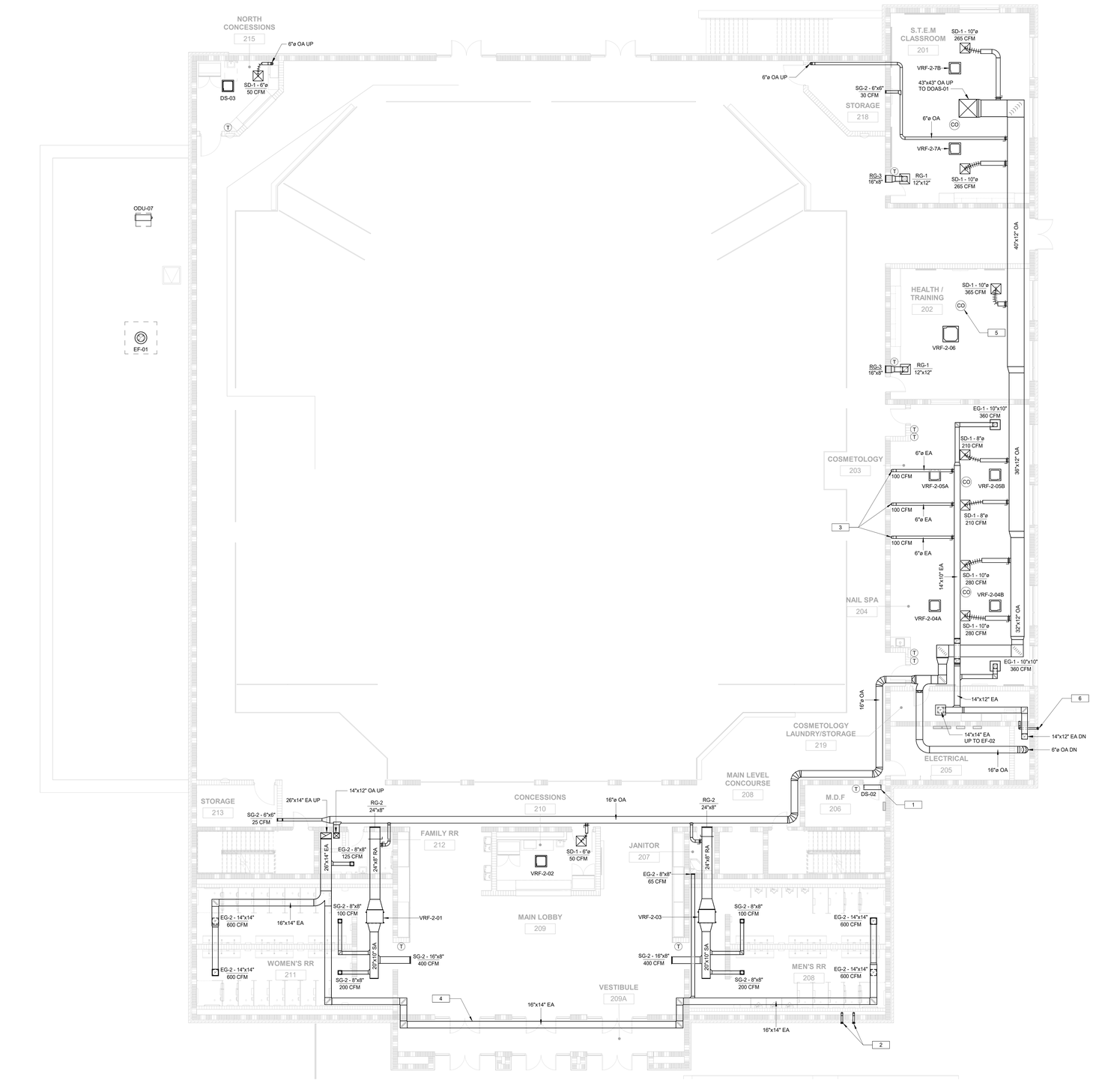

1 MECHANICAL PLAN - MAIN LEVEL
1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

A. THE GENERAL CONTRACTOR SHALL CONDUCT PRE-CONSTRUCTION COORDINATION MEETINGS TO ENSURE HVAC DUCT ROUTING IS COORDINATED WITH OTHER DISCIPLINES, INCLUDING STRUCTURAL MEMBERS, PLUMBING PIPING, LIGHTING FIXTURES, CABLING, ETC.

B. THE MECHANICAL CONTRACTOR SHALL MAINTAIN MANUFACTURER'S RECOMMENDED MINIMUM CLEARANCES WHEN INSTALLING HVAC EQUIPMENT. EQUIPMENT LOCATED ABOVE CEILINGS SHALL NOT BE PLACED ABOVE WALLS OR OTHER OBSTRUCTIONS THAT WOULD PREVENT REPLACEMENT OF THE UNIT.

C. UNLESS NOTED OTHERWISE, ROUTE DUCTWORK TIGHT TO THE BOTTOM OF STRUCTURE.

D. ALL CONCEALED SUPPLY-AIR DUCTWORK SHALL BE INSULATED WITH MINIMUM R-6 FIBERGLASS DUCT WRAP WITH AN FSK VAPOR BARRIER. ROUND SUPPLY-AIR DUCTWORK IN EXPOSED AREAS SHALL BE DOUBLE-WALL SPIRAL DUCT WITH A PAINT-GRIP EXTERIOR, A GALVANIZED SHEET METAL INTERIOR, AND MINIMUM 1" FIBERGLASS INTERSTITIAL INSULATION.

E. DUCTWORK USED FOR TRANSFER AIR SHALL BE LINED WITH 1" ACOUSTIC FIBERGLASS DUCT LINER.

F. EXHAUST AIR DUCTWORK DOES NOT REQUIRE INSULATION UNLESS NOTED OTHERWISE.

G. ROUTE CONDUIT FOR WALL-MOUNTED THERMOSTATS AND OTHER CONTROL DEVICES IN STUD-FRAMED GYPSUM WALLS OR IN HOLLOW CORE CMU WALLS. CONDUIT ROUTING SHALL BE COORDINATED AS CMU WALLS ARE CONSTRUCTED. SURFACE-MOUNTED RIGID CONDUIT FOR HVAC CONTROL WIRING IS NOT ACCEPTABLE. PROVIDE VANDAL-PROOF, LOCKABLE COVERS FOR ALL THERMOSTATS AND CONTROL DEVICES.

H. FLEX DUCT CONNECTING TO SUPPLY DIFFUSERS SHALL BE A MAXIMUM OF 5 FEET IN LENGTH.

MECHANICAL KEYED NOTES: #

1. INSTALL THE WALL-MOUNTED DUCTLESS MINI-SPLIT A MINIMUM 12" ABOVE ENTRY DOOR. CONTRACTOR TO ENSURE MANUFACTURER'S MINIMUM CLEARANCES.
2. ROUTE 4"ø DRYER VENT DUCT FOR EACH DRYER IN CHASE WALL. USE 45° ELBOWS IN LIEU OF 90° ELBOWS WHERE POSSIBLE. TERMINATE WITH FLUSH DRYER WALL VENT WITH INTEGRAL BACKDRAFT DAMPER, TO BE APPROVED BY ARCHITECT, AND LOCATED A MINIMUM OF 3 FT. ABOVE GRADE. SEE FLOOR PLAN ON SHEET M1.01.
3. PROVIDE EXHAUST DUCT CONNECTION FOR NAIL STATIONS. COORDINATE DUCT CONNECTION SIZE, TYPE, AND LOCATION WITH EQUIPMENT PROVIDED. BALANCE EXHAUST SYSTEM TO EXHAUST 50CFM AT EACH NAIL STATION PER IMC VENTILATION REQUIREMENTS.
4. ROUTE EXHAUST DUCT IN SOFFIT AND ABOVE VESTIBULE CEILING AS INDICATED.
5. PROVIDE A CARBON MONOXIDE DETECTOR FOR CLASSROOMS SERVED BY DOAS-01. DETECTORS TO BE MONITORED BY FIRE ALARM SYSTEM - REFER TO ELECTRICAL DRAWINGS. TYPICAL FOR ALL CLASSROOMS.
6. ROUTE 4"ø DRYER VENT DUCT FOR COSMETOLOGY DRYER IN CHASE WALL. TERMINATE AT EXTERIOR WALL WITH FLUSH DRYER WALL VENT WITH INTEGRAL BACKDRAFT DAMPER, TO BE APPROVED BY ARCHITECT, AND LOCATED A MINIMUM OF 9 FT. ABOVE GRADE.

0 4' 8' 16' 24'
1/8" = 1'-0"

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DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: JHS
CHECKED BY: ARH

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 28810 ANDREAS R. HUNT 11/14/2024

MECHANICAL PLAN MAIN LEVEL

M1.02

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MECHANICAL GENERAL NOTES:

A. THE GENERAL CONTRACTOR SHALL CONDUCT PRE-CONSTRUCTION COORDINATION MEETINGS TO ENSURE HVAC DUCT ROUTING IS COORDINATED WITH OTHER DISCIPLINES, INCLUDING STRUCTURAL MEMBERS, PLUMBING PIPING, LIGHTING FIXTURES, CABLING, ETC.

B. THE MECHANICAL CONTRACTOR SHALL MAINTAIN MANUFACTURER'S RECOMMENDED MINIMUM CLEARANCES WHEN INSTALLING HVAC EQUIPMENT. EQUIPMENT LOCATED ABOVE CEILINGS SHALL NOT BE PLACED ABOVE WALLS OR OTHER OBSTRUCTIONS THAT WOULD PREVENT REPLACEMENT OF THE UNIT.

C. UNLESS NOTED OTHERWISE, ROUTE DUCTWORK TIGHT TO THE BOTTOM OF STRUCTURE.

D. ALL CONCEALED SUPPLY-AIR DUCTWORK SHALL BE INSULATED WITH MINIMUM R-6 FIBERGLASS DUCT WRAP WITH AN FSK VAPOR BARRIER. ROUND SUPPLY-AIR DUCTWORK IN EXPOSED AREAS SHALL BE DOUBLE-WALL SPIRAL DUCT, WITH A PAINT-GRIP EXTERIOR, A GALVANIZED SHEET METAL INTERIOR, AND MINIMUM 1" FIBERGLASS INTERSTITIAL INSULATION.

E. DUCTWORK USED FOR TRANSFER AIR SHALL BE LINED WITH 1" ACOUSTIC FIBERGLASS DUCT LINER.

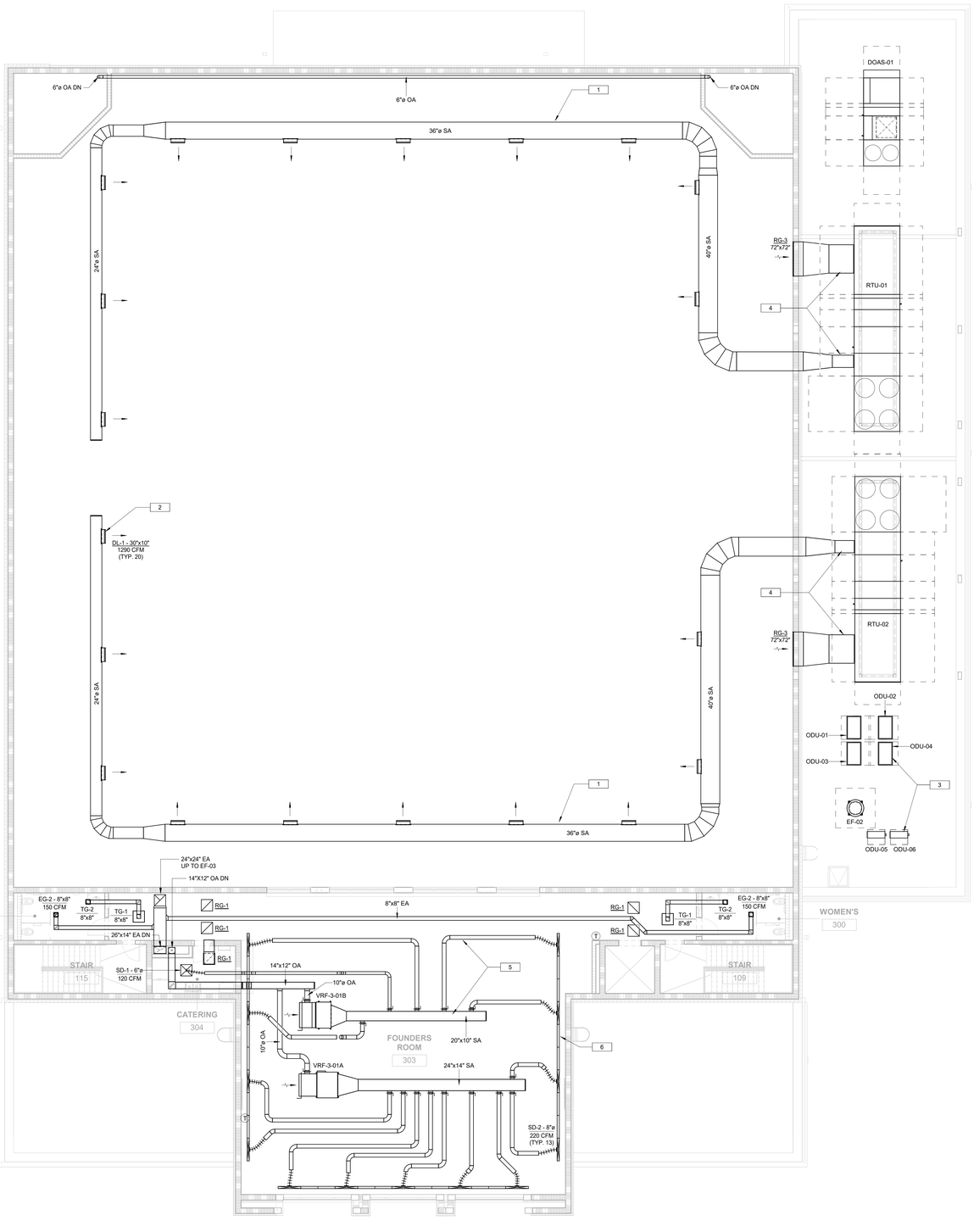
F. EXHAUST AIR DUCTWORK DOES NOT REQUIRE INSULATION UNLESS NOTED OTHERWISE.

G. ROUTE CONDUIT FOR WALL-MOUNTED THERMOSTATS AND OTHER CONTROL DEVICES IN STUD-FRAMED GYPSUM WALLS OR IN HOLLOW CORE CMU WALLS. CONDUIT ROUTING SHALL BE COORDINATED AS CMU WALLS ARE CONSTRUCTED. SURFACE-MOUNTED RIGID CONDUIT FOR HVAC CONTROL WIRING IS NOT ACCEPTABLE.

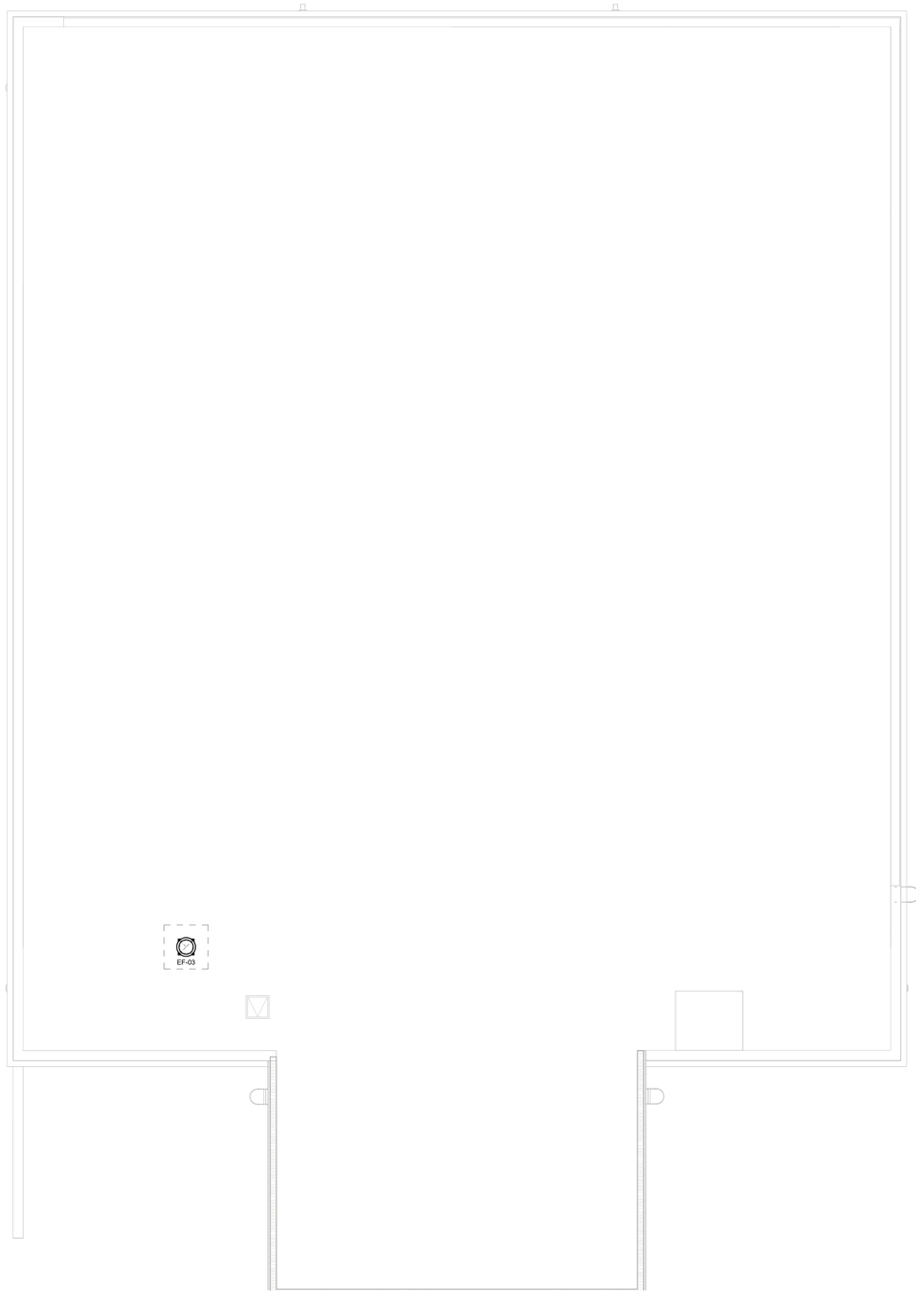
H. FLEX DUCT CONNECTING TO SUPPLY DIFFUSERS SHALL BE A MAXIMUM OF 5 FEET IN LENGTH.

MECHANICAL KEYED NOTES: #

1. DUCTWORK SERVING GYMNASIUM SHALL BE ROUTED ABOVE THE BOTTOM CHORD OF THE ROOF TRUSSES. COORDINATE EXACT ROUTING WITH STRUCTURAL OPENINGS IN ROOF TRUSSES - REFER TO STRUCTURAL DRAWINGS.
2. DUCT-MOUNTED DRUM LOUVERS DIRECTING SUPPLY AIR TO THE INTERIOR OF THE GYMNASIUM SHALL BE INSTALLED HORIZONTAL, WITH THE DRUM ROTATED DOWNWARDS AT THE MAXIMUM 30° ANGLE. MECHANICAL CONTRACTOR SHALL ADJUST DRUM LOUVER DIRECTIONAL BLADES TO PROVIDE EVEN DISTRIBUTION OF AIR ACROSS THE GYMNASIUM. COORDINATE INSTALLATION OF DRUM LOUVERS TO AVOID CONFLICTING WITH ROOF TRUSSES.
3. PROVIDE ROOF RAILS FOR ROOF-MOUNTING OF OUTDOOR CONDENSING UNITS. SIZE RAILS TO ELEVATE EQUIPMENT A MINIMUM OF 12-INCHES ABOVE ROOF-LINE. INSTALL FLASHING TO PROVIDE A CONTINUOUS WATER-TIGHT ROOF MEMBRANE.
4. COVER DUCTWORK EXPOSED TO THE OUTDOORS WITH A GALVANIZED SHEET METAL COVER, SLOPED SO AS TO DRAIN WATER AWAY FROM THE DUCT.
5. DUCTWORK IN FOUNDER'S ROOM SHALL BE INSTALLED ABOVE THE BOTTOM CHORD OF THE STRUCTURAL ROOF JOISTS. DUCTWORK SHALL ROUTE BETWEEN JOISTS AND THROUGH OPENINGS IN OPEN-WEB JOISTS. COORDINATE EXACT ROUTING WITH STRUCTURAL SHOP DRAWINGS OF ROOF JOISTS.
6. PROVIDE "BLANK" SLOT DIFFUSERS BETWEEN DUCTED SUPPLY SLOT DIFFUSERS TO ACHIEVE A CONTINUOUS SLOT AESTHETIC. SLOT FINISH AND COLOR TO BE SELECTED BY ARCHITECT.



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



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

0 4' 8' 16' 24'
1/8" = 1'-0"

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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 28810 11/14/2024 ANDREAS R. KAIR

MECHANICAL PLANS
UPPER LEVEL & ROOF

M1.03

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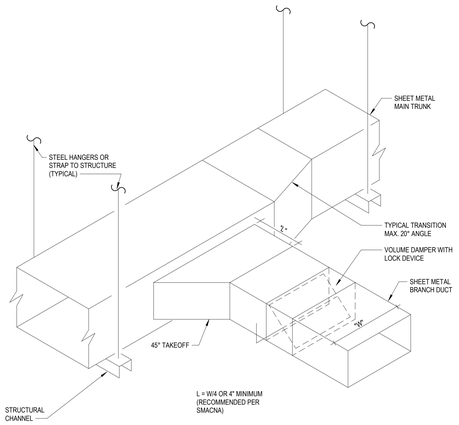
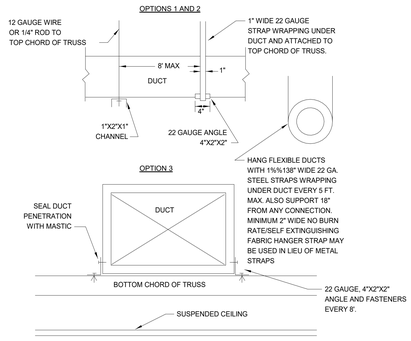
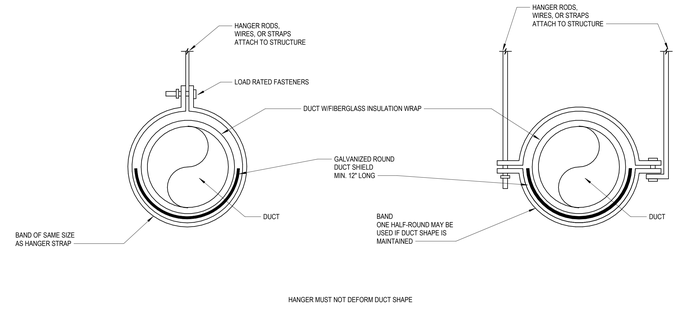


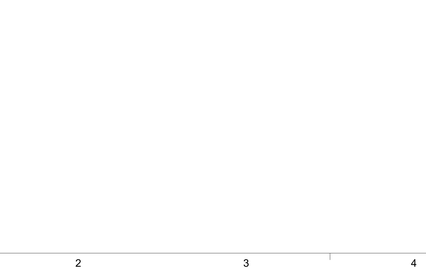
1 BRANCH DUCT TAKEOFF DETAIL
12" = 1'-0"



2 DUCT SUPPORT DETAILS
12" = 1'-0"



3 ROUND DUCT HANGER DETAIL
12" = 1'-0"



NOTES:
1. 14 GAUGE INSULATED CURB BY RTU MANUFACTURER W/ SUPPORTS 24" O.C.
2. PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO MAKE INSTALLED UNIT LEVEL
3. VERIFY ROOF SLOPE & CONSTRUCTION & PROVIDE CURB TO MATCH

4 ROOFTOP AIR UNIT CURB DETAIL
12" = 1'-0"

AHU	A	B
RTU-01 - RTU-02	3"	1.5"

NOTES:
1. SEE SPECIFICATION FOR CONDENSATE PIPING MATERIAL.
2. CONDENSATE DRAIN SHALL BE PIPED FULL SIZE OF UNIT CONNECTION.
3. INSULATE CONDENSATE PIPING PER SPECIFICATIONS.

5 RTU CONDENSATE DRAIN DETAIL
NTS

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FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

MECHANICAL DETAILS

M5.01

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ROOFTOP AIR HANDLING UNIT WITH GAS HEAT SCHEDULE

MARK	NOMINAL SIZE (TONS)	SUPPLY AIR: SUPPLY AIRFLOW (CFM)	SUPPLY AIR: MAX OUTDOOR AIRFLOW (CFM)	SUPPLY AIR: MIN OUTDOOR AIRFLOW (CFM)	SUPPLY AIR: FANS: RPM	FANS: ESP (IN. W.G.)	FANS: TSP (IN. W.G.)	MOTORS: BHP	MOTORS: QTY	MOTORS: DRIVE	MOTORS: HP	EXHAUST AIR: EXHAUST AIRFLOW (CFM)	EXHAUST AIR: FANS: RPM	EXHAUST AIR: FANS: ESP (IN. W.G.)	EXHAUST AIR: MOTORS: BHP	EXHAUST AIR: MOTORS: QTY	EXHAUST AIR: MOTORS: DRIVE	EXHAUST AIR: MOTORS: HP	FILTER MERV	DX COOLING COIL: REFRIGERANT TYPE	DX COOLING COIL: TOTAL CAPACITY (MBH)	DX COOLING COIL: SENSIBLE CAPACITY (MBH)	DX COOLING COIL: EAT: DBT (°F)	DX COOLING COIL: EAT: WBT (°F)	DX COOLING COIL: LAT: DBT (°F)	DX COOLING COIL: LAT: WBT (°F)	HOT GAS REHEAT COIL: CAPACITY (MBH)	HOT GAS REHEAT COIL: EAT (°F)	HOT GAS REHEAT COIL: LAT (°F)	CONDENSING SECTION: NO. CIRCUITS	CONDENSING SECTION: NO. COMP	CONDENSING SECTION: EFFICIENCY: EER	CONDENSING SECTION: EFFICIENCY: IEER	HEATING AIRFLOW (CFM)	NATURAL GAS HEAT: INPUT (MBH)	NATURAL GAS HEAT: OUTPUT (MBH)	NATURAL GAS HEAT: EAT (°F)	NATURAL GAS HEAT: LAT (°F)	NATURAL GAS HEAT: NO. STAGES	ELECTRICAL: MCA	ELECTRICAL: MOCP	ELECTRICAL: VOLT / PH	BASIS OF DESIGN: LxWxH (INxINxIN)	BASIS OF DESIGN: UNIT WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
RTU-01	68	12,900	6,850	1,050	1,529	2	3.69	13.67	4	DIRECT	5.5 (EA)	12,000	1,910	0.5	3.44	2	DIRECT	2.3 (EA)	13	R32	795.1	471.3	86.4	72.0	53.0	53.0	238.6	53.0	70	2	4	10.3	15.1	12,900	800	648	32	79	MODULATING	143.8	150	460/3	433 x 97 x 102	13,704	DAIKIN APPLIED	DPSA068	1 THRU 13
RTU-02	68	12,900	6,850	1,050	1,529	2	3.69	13.67	4	DIRECT	5.5 (EA)	12,000	1,910	0.5	3.44	2	DIRECT	2.3 (EA)	13	R32	795.1	471.3	86.4	72.0	53.0	53.0	238.6	53.0	70	2	4	10.3	15.1	12,900	800	648	32	79	MODULATING	143.8	150	460/3	433 x 97 x 102	13,704	DAIKIN APPLIED	DPSA068	1 THRU 13

NOTES:

1. DIVISION 23 CONTRACTOR SHALL SUPPLY ELECTRICAL DISCONNECTS, PROVIDED BY MANUFACTURER OR OTHERS. DISCONNECTS THAT ARE SHIPPED LOOSE SHALL BE INSTALLED BY DIVISION 26 CONTRACTOR.
2. PROVIDE WITH UNIT POWERED GFI 115V RECEPTACLE.
3. PROVIDE UNIT WITH 65 kA SCCR.
4. PROVIDE WITH SIDE DISCHARGE DUCT CONNECTIONS.
5. PROVIDE FACTORY INSTALLED LOW-LEAK ECONOMIZER WITH COMPARATIVE ENTHALPY CONTROL.
6. PROVIDE FACTORY-INSTALLED POWER EXHAUST FAN(S) WITH MODULATING BUILDING STATIC PRESSURE CONTROL.
7. PROVIDE WITH THROUGH THE BASE ELECTRICAL CONNECTIONS.
8. PROVIDE WITH STAINLESS STEEL DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH.
9. PROVIDE FACTORY INSTALLED DUCT SMOKE DETECTOR IN THE SUPPLY AND RETURN AIR STREAMS.
10. PROVIDE 18" TALL SOUND AND VIBRATION ISOLATION ROOF CURB. CURB TO MATCH ROOF SLOPE - REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
11. PROVIDE FACTORY-INSTALLED CONTROLS WITH BACnet IP. FACTORY-CONFIGURED UNIT CONTROLLER SHALL CONTAIN ALL SEQUENCES NECESSARY TO OPERATE UNIT. CONTROLS CONTRACTOR TO INTERFACE UNIT CONTROLLER WITH EXISTING CAMPUS BMS.
12. PROVIDE FIELD-INSTALLED COMMERCIAL 7-DAY PROGRAMMABLE THERMOSTAT. PROVIDE WITH SPACE SENSORS FOR DRY BULB TEMPERATURE, RELATIVE HUMIDITY, AND CO2.
13. UNIT CONTROLLER SHALL BE FACTORY-CONFIGURED TO OPERATE WITH SINGLE-ZONE VAV CONTROL ALGORITHMS. REFER TO CONTROL DIAGRAM ON SHEET M-701.

ROOFTOP DEDICATED OUTDOOR AIR UNIT WITH GAS HEAT SCHEDULE

MARK	NOMINAL SIZE (TONS)	SUPPLY (OUTDOOR) AIR: OUTDOOR AIRFLOW (CFM)	FAN: RPM	FAN: ESP (IN. W.G.)	FAN: TSP (IN. W.G.)	MOTOR: BHP	MOTOR: QTY	MOTOR: DRIVE	MOTOR: HP	FILTER MERV	DX COOLING COIL: REFRIGERANT TYPE	DX COOLING COIL: TOTAL CAPACITY (MBH)	DX COOLING COIL: SENSIBLE CAPACITY (MBH)	DX COOLING COIL: EAT: DBT (°F)	DX COOLING COIL: EAT: WBT (°F)	DX COOLING COIL: LAT: DBT (°F)	DX COOLING COIL: LAT: WBT (°F)	HOT GAS REHEAT COIL: CAPACITY (MBH)	HOT GAS REHEAT COIL: EAT (°F)	HOT GAS REHEAT COIL: LAT (°F)	CONDENSING SECTION: NO. CIRCUITS	CONDENSING SECTION: NO. COMP	CONDENSING SECTION: EFFICIENCY: EER	CONDENSING SECTION: EFFICIENCY: IEER	OUTDOOR AIRFLOW (CFM)	NATURAL GAS HEAT: INPUT (MBH)	NATURAL GAS HEAT: OUTPUT (MBH)	NATURAL GAS HEAT: EAT (°F)	NATURAL GAS HEAT: LAT (°F)	NATURAL GAS HEAT: NO. STAGES	ELECTRICAL: MCA	ELECTRICAL: MOCP	ELECTRICAL: VOLT / PH	BASIS OF DESIGN: DIMENSIONS LxWxH (INxINxIN)	BASIS OF DESIGN: UNIT WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
DOAS-01	31	4,400	2,779	1.5	2.4	3.36	1	DIRECT	5	8	R32	353.8	181.4	96.4	78.3	55.2	53.6	70.7	55.2	70.0	1	2			4,400	450	360	11.9	87.3	MODULATING	77.6	100	460 / 3	203 x 72 x 77	4,132	DAIKIN APPLIED	DPSC31	1 THRU 9

NOTES:

1. DIVISION 23 CONTRACTOR SHALL SUPPLY ELECTRICAL DISCONNECTS, PROVIDED BY MANUFACTURER OR OTHERS. DISCONNECTS THAT ARE SHIPPED LOOSE SHALL BE INSTALLED BY DIVISION 26 CONTRACTOR.
2. PROVIDE WITH UNIT POWERED GFI 115V RECEPTACLE.
3. PROVIDE UNIT WITH 65 kA SCCR.
4. PROVIDE WITH BOTTOM DISCHARGE DUCT CONNECTION.
5. PROVIDE WITH THROUGH THE BASE ELECTRICAL CONNECTIONS.
6. PROVIDE WITH STAINLESS STEEL DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH.
7. PROVIDE FACTORY INSTALLED DUCT SMOKE DETECTOR IN THE SUPPLY AIR STREAM.
8. PROVIDE 18" TALL SOUND AND VIBRATION ISOLATION ROOF CURB. CURB TO MATCH ROOF SLOPE - REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
9. PROVIDE FACTORY-INSTALLED CONTROLS WITH BACnet IP. FACTORY-CONFIGURED UNIT CONTROLLER SHALL CONTAIN ALL SEQUENCES NECESSARY TO OPERATE UNIT. CONTROLS CONTRACTOR TO INTERFACE UNIT CONTROLLER WITH EXISTING CAMPUS BMS.

UNIT HEATER SCHEDULE

MARK	LOCATION	TYPE	AIRFLOW (CFM)	INPUT KW	AMPS	VOLTS/ PHASE	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
EUH-01	123 FIRE RISER	ELECTRIC UNIT HEATER	350	3	3.6	460 / 3	27	QMARK	MUH-03	1, 2, 3

NOTES:

1. DIVISION 23 CONTRACTOR SHALL SUPPLY ELECTRICAL DISCONNECTS, PROVIDED BY MANUFACTURER OR OTHERS. DISCONNECTS THAT ARE SHIPPED LOOSE SHALL BE INSTALLED BY DIVISION 26 CONTRACTOR.
2. PROVIDE W/ MANUFACTURER-SUPPLIED WALL BRACKET. MOUNT UNIT MINIMUM 8' ABOVE FINISHED FLOOR.
3. PROVIDE W/ WALL-MOUNTED THERMOSTAT. SET THERMOSTAT TO MINIMUM 50°F.

EXHAUST FAN SCHEDULE

MARK	FAN: FAN TYPE	FAN: MAX AIRFLOW (CFM)	FAN: MIN AIRFLOW (CFM)	FAN: ESP (IN. W.G.)	FAN: BHP	FAN MOTOR: DRIVE	FAN MOTOR: HP	VOLT / PH	BASIS OF DESIGN: UNIT WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
EF-01	DOWNBLAST	1,290	--	0.95	0.32	DIRECT	1/2	120 / 1	48	GREENHECK	G-130-VG	1 THRU 4
EF-02	DOWNBLAST	2,835	--	0.85	0.75	DIRECT	1	208 / 3	144	GREENHECK	G-180-B	1 THRU 4
EF-03	DOWNBLAST	2,890	--	1.1	0.93	DIRECT	1	208 / 3	144	GREENHECK	G-180-B	1 THRU 4
EF-SS	INLINE	970	400	0.5	0.16	DIRECT	1/4	120 / 1	48	GREENHECK	SQ-100-VG	1, 2, 5, 6

NOTES:

1. DIVISION 23 CONTRACTOR SHALL SUPPLY ELECTRICAL DISCONNECTS, PROVIDED BY MANUFACTURER OR OTHERS. DISCONNECTS THAT ARE SHIPPED LOOSE SHALL BE INSTALLED BY DIVISION 26 CONTRACTOR.
2. PROVIDE W/ GRAVITY BACKDRAFT DAMPER.
3. PROVIDE W/ SPEED CONTROLLER FOR AIRFLOW BALANCING.
4. PROVIDE FIELD INSTALLED ROOF CURB TO ACCOMMODATE ROOF PITCH. CURB TO ELEVATE FAN A MINIMUM OF 12" ABOVE ROOFLINE.
5. PROVIDE W/ 2-SPEED CONTROLLER. FAN TO OPERATE AT LOWER SPEED TO ACHIEVE MINIMUM AIRFLOW DURING NORMAL OPERATION. DURING EMERGENCY OPERATION, FAN SHALL OPERATE AT HIGHER SPEED TO ACHIEVE MAXIMUM AIRFLOW.
6. INTERLOCK FAN WITH EMERGENCY STORM SHELTER WALL SWITCH. WHEN ACTIVATED, EXHAUST FAN SHALL OPERATE AT HIGHER SPEED AND MOTORIZED CONTROL DAMPERS ON EXHAUST DUCT AND MAKEUP AIR INLET SHALL OPEN. REFER TO CONTROL DIAGRAM ON SHEET M7.01.

DUCTLESS SPLIT SYSTEM SCHEDULE

MARK	INDOOR UNIT: LOCATION	TYPE	CFM (LO-MED-HI)	EAT: AMBIENT DBT (°F)	EAT: WBT (°F)	BASIS OF DESIGN: LxWxH (INxINxIN)	BASIS OF DESIGN: UNIT WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	OUTDOOR CONDENSING UNIT: MARK	TYPE	REFRIGERANT TYPE	COOLING: TOTAL CAPACITY (MBH)	COOLING: SENSIBLE CAPACITY (MBH)	COOLING: AMBIENT DBT (°F)	HEATING: CAPACITY (MBH)	HEATING: AMBIENT DBT (°F)	EFFICIENCY: EER2	EFFICIENCY: SEER2	ELECTRICAL: MCA	ELECTRICAL: MOCP	ELECTRICAL: VOLT / PH	BASIS OF DESIGN: LxWxH (INxINxIN)	BASIS OF DESIGN: UNIT WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
DS-01	106 ELECTRICAL	WALL-MOUNT	716 - 605 - 467	80	67	39 x 11 x 12	31	DAIKIN	FTK24AXVJU	ODU-05	COOLING ONLY	R-410A	24.0	15.7	96.4	-	-	12.2	19.0	13.4	20	208/1	14 x 37 x 28	106	DAIKIN	RK24AXVJU	
DS-02	206 MDF	WALL-MOUNT	716 - 605 - 467	80	67	39 x 11 x 12	31	DAIKIN	FTK24AXVJU	ODU-06	COOLING ONLY	R-410A	24.0	15.7	96.4	-	-	12.2	19.0	13.4	20	208/1	14 x 37 x 28	106	DAIKIN	RK24AXVJU	
DS-03	210 CONCESSIONS	CASSETTE	317	74	63	23 x 23 x 10	35	DAIKIN	VJU82FFQ09W	ODU-07	HEAT PUMP	R-410A	9.1	8.0	96.4	10.0	47	12.0	19.8	7.6	15	208/1	11 x 27 x 22	63	DAIKIN	RX09WMVJU9	

NOTES:

1.

VRF INDOOR UNIT SCHEDULE

MARK	OUTDOOR UNIT MARK	LOCATION	TYPE	SUPPLY FAN AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	COOLING: TOTAL CAPACITY (MBH)	COOLING: SENSIBLE CAPACITY (MBH)	COOLING: EAT: DBT (°F)	COOLING: EAT: WBT (°F)	HEATING: CAPACITY (MBH)	HEATING: EAT (°F)	ELECTRICAL: MCA	ELECTRICAL: MOCP	ELECTRICAL: VOLT / PH	BASIS OF DESIGN: DIMENSIONS WxHxD (INxINxIN)	BASIS OF DESIGN: UNIT WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
VRF-1-01	ODU-03	124 RECEIVING	CASSETTE	512	-	12.2	8.7	74	63	16.7	70	0.4	15	208/1	33 x 33 x 10	42	DAIKIN	FXFQ15AAVJU	1, 2, 3
VRF-1-02	ODU-03	121 GIRLS VISITOR LOCKER RM	CASSETTE	353	-	10.3	6.7	74	63	13.4	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ12TBVJU	1, 2, 3
VRF-1-03	ODU-03	120 VOLLEYBALL LOCKER RM	CASSETTE	353	-	10.3	6.7	74	63	13.4	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ12TBVJU	1, 2, 3
VRF-1-04	ODU-03	119 GIRLS HOME LOCKER RM	CASSETTE	353	-	10.2	6.7	74	63	13.4	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ12TBVJU	1, 2, 3
VRF-1-05	ODU-03	118 GIRLS VARSITY COACH	CASSETTE	317	-	8.0	5.5	74	63	10.4	70	0.3	15	208/1	23 x 23 x 10	35	DAIKIN	FXZQ09TBVJU	1, 2, 3
VRF-1-06	ODU-02	114 CHEER RM	CASSETTE	777	-	19.4	15.2	74	63	26.5	70	0.5	15	208/1	33 x 33 x 10	51	DAIKIN	FXFQ24AAVJU	1, 2, 3
VRF-1-07	ODU-02	112 STORAGE	DUCTED	1,624	425	45.6	32.3	74	63	58.9	70	3.4	15	208/1	55 x 12 x 28	104	DAIKIN	FXMQ54PBVJU	1, 2, 4
VRF-1-08	ODU-02	111 TRAINING ROOM	CASSETTE	405	-	12.8	8.8	74	63	16.8	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ15TBVJU	1, 2, 3
VRF-1-09	ODU-02	110 LAUNDRY RM	CASSETTE	511	-	15.2	10.7	74	63	19.8	70	0.6	15	208/1	23 x 23 x 10	42	DAIKIN	FXZQ18TBVJU	1, 2, 3
VRF-1-10	ODU-01	105 BOYS VARSITY COACH	CASSETTE	317	-	8.0	5.5	74	63	10.4	70	0.3	15	208/1	23 x 23 x 10	35	DAIKIN	FXZQ09TBVJU	1, 2, 3
VRF-1-11	ODU-01	104 BOYS HOME LOCKER RM	CASSETTE	353	-	10.3	6.7	74	63	13.4	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ12TBVJU	1, 2, 3
VRF-1-12	ODU-01	103 TEAM RM	DUCTED	742	200	20.7	14.4	74	63	26.5	70	1.8	15	208/1	39 x 10 x 32	82	DAIKIN	FXSQ24TAVJU	1, 2, 4
VRF-1-13	ODU-01	102 BOYS VISITOR LOCKER RM	CASSETTE	353	-	10.3	6.7	74	63	13.4	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ12TBVJU	1, 2, 3
VRF-1-14	ODU-01	101 REFEREE RM	CASSETTE	317	-	8.0	5.5	74	63	10.4	70	0.3	15	208/1	23 x 23 x 10	35	DAIKIN	FXZQ09TBVJU	1, 2, 3
VRF-2-01	ODU-04	211 WOMENS RR / LOBBY	DUCTED	1,377	85	40.5	28.7	74	63	53.0	70	3.4	15	208/1	55 x 12 x 28	101	DAIKIN	FXMQ48PBVJU	1, 2, 4
VRF-2-02	ODU-04	210 CONCESSIONS	CASSETTE	317	-	8.0	5.5	74	63	10.4	70	0.3	15	208/1	23 x 23 x 10	35	DAIKIN	FXZQ09TBVJU	1, 2, 3
VRF-2-03	ODU-04	208 MENS RR / LOBBY	DUCTED	1,377	85	40.5	28.7	74	63	53.0	70	3.4	15	208/1	55 x 12 x 28	101	DAIKIN	FXMQ48PBVJU	1, 2, 4
VRF-2-04A	ODU-04	204 NAIL SPA	CASSETTE	405	-	12.8	8.8	74	63	16.8	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ15TBVJU	1, 2, 3
VRF-2-04B	ODU-04	204 NAIL SPA	CASSETTE	405	-	12.8	8.8	74	63	16.8	70	0.4	15	208/1	23 x 23 x 10	36	DAIKIN	FXZQ15TBVJU	1, 2, 3
VRF-2-05A	ODU-04	203 COSMETOLOGY	CASSETTE	511	-	15.2	10.7	74	63	19.8	70	0.6	15	208/1	23 x 23 x 10	42	DAIKIN	FXZQ18TBVJU	1, 2, 3
VRF-2-05B	ODU-04	203 COSMETOLOGY	CASSETTE	511	-	15.2	10.7	74	63	19.8	70	0.6	15	208/1	23 x 23 x 10	42	DAIKIN	FXZQ18TBVJU	1, 2, 3
VRF-2-06	ODU-04	202 HEALTH/TRAINING	CASSETTE	1,059	-	25.3	18.0	74	63	33.4	70	1.0	15	208/1	33 x 33 x 11	57	DAIKIN	FXFQ30AAVJU	1, 2, 3
VRF-2-7A	ODU-04	201 STEM CLASSROOM	CASSETTE	511	-	15.4	10.5	74	63	19.8	70	0.6	15	208/1	23 x 23 x 10	42	DAIKIN	FXZQ18TBVJU	1, 2, 3
VRF-2-7B	ODU-04	201 STEM CLASSROOM	CASSETTE	511	-	15.4	10.5	74	63	19.8	70	0.6	15	208/1	23 x 23 x 10	42	DAIKIN	FXZQ18TBVJU	1, 2, 3
VRF-3-01A	ODU-04	303 FOUNDERS RM	DUCTED	2,048	450	60.8	44.9	74	63	79.5	70	9.0	15	208/1	54 x 18 x 43	302	DAIKIN	FXMQ72MVJU	1, 2, 4
VRF-3-01B	ODU-04	303 FOUNDERS RM	DUCTED	1,377	450	40.5	28.7	74	63	53.0	70	3.4	15	208/1	55 x 12 x 28	101	DAIKIN	FXMQ48PBVJU	1, 2, 4

SPLIT SYSTEM SCHEDULE (VRF OUTDOOR UNITS)

MARK	LOCATION	TYPE	REFRIGERANT TYPE	RATED COOLING CAPACITY (MBH)	RATED HEATING CAPACITY (MBH)	AMBIENT: COOLING DBT (°F)	AMBIENT: HEATING DBT (°F)	EFFICIENCY: EER	EFFICIENCY: IEER	EFFICIENCY: COP47 / COP17	ELECTRICAL: MCA	ELECTRICAL: MOCP	ELECTRICAL: VOLT / PH	BASIS OF DESIGN: DIMENSIONS LxWxH (INxINxIN)	BASIS OF DESIGN: UNIT WEIGHT (LB)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
ODU-01	EAST LOW ROOF	AIR-COOLED HEAT RECOVERY	R-410A	54.0	68.2	96.4	11.9	15.7	28	4.3 / 2.5	12.4	15	460/3	37 x 65 x 30	525	DAIKIN	REYQ72AAYDA	
ODU-02	EAST LOW ROOF	AIR-COOLED HEAT RECOVERY	R-410A	115.2	90.4	96.4	11.9	14.6	30	4.0 / 2.48	16.4	20	460/3	49 x 65 x 30	725	DAIKIN	REYQ96AAYDA	
ODU-03	EAST LOW ROOF	AIR-COOLED HEAT RECOVERY	R-410A	51.7	66.2	96.4	11.9	15.7	28	4.3 / 2.5	12.4	15	460/3	37 x 65 x 30	525	DAIKIN	REYQ72AAYDA	
ODU-04	EAST LOW ROOF	AIR-COOLED HEAT RECOVERY	R-410A	230.8	155.8	96.4	11.9	11	21.6	3.45 / 2.05	33.4	40	460/3	69 x 65 x 30	972	DAIKIN	REYQ240AYDA	

NOTES:

1.

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

MARK	TYPE	MOUNTING	MATERIAL	FACE SIZE	LINEAR SLOT: LENGTH	LINEAR SLOT: NUMBER SLOTS	LINEAR SLOT: SLOT WIDTH	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
DL-1	DRUM LOUVER	DUCT	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	HCD	
EG-1	LOUVERED EXHAUST GRILLE	LAY-IN	ALUMINUM	24" x 24"	-	-	-	PRICE INDUSTRIES	630	
EG-2	LOUVERED EXHAUST GRILLE	SURFACE	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	630	
RG-1	EGGCRATE RETURN GRILLE	LAY-IN	ALUMINUM	24" x 24"	-	-	-	PRICE INDUSTRIES	80	
RG-2	LOUVERED RETURN GRILLE	SURFACE	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	630	
RG-3	HEAVY DUTY RETURN GRILLE	SURFACE	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	97	
SD-1	SQUARE PLAQUE DIFFUSER	LAY-IN	ALUMINUM	24" x 24"	-	-	-	PRICE INDUSTRIES	ASPD	
SD-2	LINEAR SLOT DIFFUSER	SURFACE	ALUMINUM	PER MFG.	48"	3	3/4"	PRICE INDUSTRIES	SDS / SDB	
SD-3	ROUND CONE DIFFUSER	DUCT	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	ARCD	
SG-1	DOUBLE DEFLECTION LOUVERED SUPPLY GRILLE	LAY-IN	ALUMINUM	24" x 24"	-	-	-	PRICE INDUSTRIES	620	
SG-2	DOUBLE DEFLECTION LOUVERED SUPPLY GRILLE	SURFACE	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	620	
SG-3	DOUBLE DEFLECTION LOUVERED SUPPLY GRILLE	DUCT	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	SDGE	
TG-1	LOUVERED TRANSFER GRILLE	LAY-IN	ALUMINUM	24" x 24"	-	-	-	PRICE INDUSTRIES	630	
TG-2	LOUVERED TRANSFER GRILLE	SURFACE	ALUMINUM	PER MFG.	-	-	-	PRICE INDUSTRIES	630	

LOUVER SCHEDULE

MARK	APPLICATION	CFM	FREE AREA VELOCITY (FPM)	FREE AREA (SQFT)	ΔP (IN. W.G.)	DIMENSIONS WxHxD (INxINxIN)	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
LVR-01	EXHAUST	970	500	1.98	0.1	24 x 18 x 6	GREENHECK	AFL-601	1 THRU 5
LVR-02	INTAKE	970	500	1.98	0.1	24 x 18 x 6	GREENHECK	AFL-601	1 THRU 5

NOTES:

1. LOUVER SHALL BE A UL CLASSIFIED WIND-STORM RATED ASSEMBLY IN ACCORDANCE WITH FEMA GUIDELINES P-320 AND P-361, AND ICC 500 2023.
2. LOUVER SHALL BE TESTED AND RATED WITH A CLASS-A WIND-DRIVEN RAIN PERFORMANCE IN ACCORDANCE WITH AMCA 500-L.
3. LOUVER SHALL BE CONSTRUCTED OF HEAVY GAUGE EXTRUDED ALUMINUM.
4. PROVIDE WITH INSECT SCREEN.
5. COORDINATE FINISH AND COLOR WITH ARCHITECT.

GMC

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: JHS
CHECKED BY: ARH

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 43816
ANDREAS R. HUIN
11/14/2024

MECHANICAL SCHEDULES

M6.01

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SINGLE ZONE PACKAGED ROOFTOP UNIT WITH GAS HEAT

RTU-01 & RTU-02

SYSTEM DESCRIPTION:
THE SINGLE ZONE PACKAGED RTU CONSISTS OF A RETURN AIR PATH WITH RETURN AIR DAMPER, OUTDOOR AIR PATH WITH OUTDOOR AIR DAMPER, RELIEF AIR PATH WITH POWERED EXHAUST FAN AND EXHAUST AIR DAMPER, PLEATED FILTERS, A DIRECT EXPANSION COOLING COIL, A MODULATING HOT GAS REHEAT COIL, A MODULATING NATURAL GAS BURNER, A DIRECT DRIVE SUPPLY AIR FAN WITH VFD, AND ALL ASSOCIATED APPURTENANCES AND DEVICES DEPICTED ON THE CONTROL SYSTEM DIAGRAM.

UNIT CONTROLLER & BMS INTEGRATION:
THE UNIT SHALL BE SUPPLIED WITH A BACNET-COMPATIBLE, FACTORY-MOUNTED DDC CONTROLLER. THE UNIT CONTROLLER SHALL BE PROGRAMMED AT THE FACTORY BY THE MANUFACTURER WITH THE MANUFACTURER'S STANDARD CONTROL ALGORITHMS FOR THE REQUIRED SEQUENCES INDICATED BELOW. THE HVAC CONTROLS CONTRACTOR SHALL INTEGRATE THE UNIT CONTROLLER WITH THE EXISTING CAMPUS BMS AND SHALL PROVIDE THE NECESSARY CONTROL WIRING AND DEVICES (NETWORK CONTROLLERS, GATEWAYS, ETC.) FOR THE BMS TO MONITOR AND ADJUST SETPOINTS AND GENERATE ALARMS.

SYSTEM STARTUP/SHUTDOWN

THE UNIT SHALL BE STARTED/STOPPED THROUGH THE CAMPUS BMS. THE CAMPUS BMS SHALL ALLOW THE OPERATOR TO SET AND ADJUST OCCUPIED/UNOCCUPIED MODES BASED ON A 24-HOUR, 7-DAY SCHEDULE WITH OPTIONAL SEASONAL ADJUSTMENT (SUMMER/WINTER BREAK, ETC.). THE SPACE THERMOSTAT SHALL BE ALLOWED TO OVERRIDE OCCUPIED/ UNOCCUPIED MODES AND SPACE TEMPERATURE SETPOINTS FOR A ONE-HOUR TIME PERIOD (TO BE AJUSTABLE IN HOUR INCREMENTS BY THE OPERATOR). THE SPACE THERMOSTAT SHALL BE PROTECTED WITH A VANDAL-RESISTANT, LOCKABLE COVER.

OCCUPIED MODE:

WHEN THE SYSTEM IS PLACED IN OCCUPIED MODE, THE FOLLOWING FACTORY-PROGRAMMED STANDARD SEQUENCES SHALL BE ENABLED:

OUTDOOR AIR / RETURN AIR DAMPER CONTROL FOR VENTILATION:
THE RETURN AIR DAMPER SHALL BE OPENED 100% AND THE OUTDOOR AIR DAMPER SHALL MODULATE TO MAINTAIN THE OUTDOOR AIRFLOW RATE (CFM) SETPOINT, AS INDICATED BY THE AIRFLOW MEASUREMENT STATION. IF THE OUTDOOR AIR DAMPER IS OPEN 100% AND THE OUTDOOR AIRFLOW RATE IS BELOW SETPOINT, THE RETURN AIR DAMPER SHALL MODULATE TO MAINTAIN THE OUTDOOR AIRFLOW RATE SETPOINT. AN ALARM SHALL BE GENERATED AT THE BMS OPERATOR'S WORKSTATION IF THE OUTDOOR AIRFLOW RATE VARIES BY MORE THAN 10% FROM SETPOINT.

DEMAND CONTROL VENTILATION:
THE UNIT CONTROLLER SHALL MONITOR THE OCCUPIED ZONE CO2 LEVEL, AS INDICATED BY THE SPACE CO2 SENSOR. UPON SYSTEM STARTUP, THE UNIT CONTROLLER SHALL RESET THE OUTDOOR AIRFLOW RATE SETPOINT TO THE VENTILATION MINIMUM AIRFLOW, AS INDICATED ON THE EQUIPMENT SCHEDULE. IF THE OCCUPIED ZONE C02 LEVEL RISES ABOVE THE MAXIMUM CO2 SETPOINT OF 1400 PPM (ADJUSTABLE), THE UNIT CONTROLLER SHALL RESET THE OUTDOOR AIRFLOW RATE SETPOINT TO THE VENTILATION MAXIMUM AIRFLOW RATE, AS INDICATED ON THE EQUIPMENT SCHEDULE. THE UNIT CONTROLLER SHALL MAINTAIN THE OUTDOOR AIRFLOW RATE SETPOINT TO THE VENTILATION MAXIMUM AIRFLOW RATE UNTIL THE THE OCCUPIED ZONE CO2 LEVEL FALLS BELOW 1000 PPM (ADJUSTABLE), AT WHICH THE UNIT CONTROLLER SHALL THEN RESET THE OUTDOOR AIRFLOW RATE SETPOINT TO THE VENTILATION MINIMUM AIRFLOW RATE.

ECONOMIZER MODE:
THE UNIT CONTROLLER SHALL MONITOR THE ENTHALPY OF THE RETURN AIR AND OUTDOOR AIR, AS CALCULATED FROM THE TEMPERATURE AND HUMIDITY SENSORS IN THE RETURN AIR AND OUTDOOR AIR PATHS. THE UNIT SHALL ENABLE ECONOMIZER MODE WHEN THE OUTDOOR AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY. IN ECONOMIZER MODE, THE UNIT CONTROLLER SHALL UTILIZE ITS INTERNAL CONTROL ALGORITHMS TO FULLY CLOSE THE RETURN AIR DAMPER AND OPEN THE OUTDOOR AIR DAMPER TO 100%. IF THE OUTDOOR AIR TEMPERATURE FALLS BELOW 55°F (ADJUSTABLE), THE UNIT SHALL MODULATE THE RETURN AIR DAMPER AND OUTDOOR AIR DAMPER TO MAINTAIN A MIXED AIR TEMPERATURE OF 55°F WHILE MAINTAINING THE OUTDOOR AIRFLOW RATE SETPOINT. ECONOMIZER MODE SHALL BE DISENGAGED WHEN THE UNIT ENGAGES HEATING MODE OR THE OUTDOOR AIR ENTHALPY RISES ABOVE THE RETURN AIR ENTHALPY.

BUILDING PRESSURIZATION CONTROL:
THE UNIT CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE BETWEEN THE INTERIOR OF THE BUILDING AND THE OUTDOORS, AS INDICATED BY THE DIFFERENTIAL PRESSURE TRANSMITTER. WHEN THE BUILDING DIFFERENTIAL PRESSURE RISES ABOVE THE OCCUPIED BUILDING PRESSURIZATION SETPOINT OF +0.05 IN. W.G. (ADJUSTABLE), THE UNIT CONTROLLER SHALL UTILIZE ITS INTERNAL CONTROL ALGORITHMS TO ENABLE THE EXHAUST FAN AND MODULATE THE EXHAUST AIR SPEED TO MAINTAIN THE OCCUPIED BUILDING PRESSURIZATION SETPOINT. THE UNIT SHALL DISABLE THE EXHAUST FAN IF THE BUILDING DIFFERENTIAL PRESSURE FALLS BELOW 0.02 IN. W.G. (ADJUSTABLE). IF THE BUILDING DIFFERENTIAL PRESSURE FALLS BELOW THE MINIMUM OCCUPIED BUILDING PRESSURIZATION SETPOINT OF +0.005 IN. W.G. (ADJUSTABLE) FOR MORE THAN 5 MINUTES, THE UNIT (OR BMS) SHALL DISABLE THE DEMAND CONTROL VENTILATION SEQUENCE AND THE OUTDOOR AIRFLOW RATE SHALL BE RESET TO THE VENTILATION MAXIMUM AIRFLOW RATE.

SUPPLY AIR FAN CONTROL:
THE SUPPLY AIR FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE. IN COOLING MODE, THE UNIT SHALL USE ITS INTERNAL CONTROL ALGORITHMS TO VARY THE SPEED OF THE SUPPLY FAN (SINGLE ZONE VARIABLE AIR VOLUME CONTROL) IN CONJUNCTION WITH COMPRESSOR STAGING AND MODULATING GAS HEAT TO MAXIMIZE ENERGY EFFICIENCY WHILE MAINTAINING ZONE TEMPERATURE SETPOINTS AND OUTDOOR AIRFLOW RATE SETPOINTS.

COOLING MODE:
WHEN THE ZONE TEMPERATURE IS AT OR ABOVE THE OCCUPIED ZONE DRY BULB TEMPERATURE COOLING SETPOINT OF 75°F (ADJUSTABLE), THE UNIT CONTROLLER SHALL ENABLE COOLING MODE. IN THIS MODE, THE UNIT CONTROLLER SHALL UTILIZE ITS INTERNAL CONTROL ALGORITHMS TO STAGE THE REFRIGERANT COMPRESSORS TO MAINTAIN A MAXIMUM COOLING COIL LEAVING AIR TEMPERATURE OF 55°F (ADJUSTABLE). THE UNIT SHALL THEN VARY THE SUPPLY FAN SPEED TO MODULATE THE SUPPLY AIRFLOW BETWEEN MINIMUM AND MAXIMUM AIRFLOW SETPOINTS TO MAINTAIN THE OCCUPIED ZONE COOLING TEMPERATURE SETPOINT.

DEHUMIDIFICATION MODE:
THE UNIT CONTROLLER SHALL MONITOR THE ZONE RELATIVE HUMIDITY LEVEL. WHEN THE UNIT IS IN COOLING MODE AND THE ZONE RELATIVE HUMIDITY IS 10% ABOVE THE ZONE RELATIVE HUMIDITY SETPOINT OF 50% (ADJUSTABLE), THE UNIT SHALL ENABLE DEHUMIDIFICATION MODE. IN THIS MODE, THE UNIT SHALL UTILIZE ITS INTERNAL CONTROL ALGORITHMS TO INCREASE THE SUPPLY AIRFLOW INCREMENTALLY, UP TO THE MAXIMUM AIRFLOW RATE, STAGE THE REFRIGERANT COMPRESSORS TO MAINTAIN A MAXIMUM COOLING COIL LEAVING AIR TEMPERATURE OF 55°F (ADJUSTABLE), AND MODULATE THE HOT GAS REHEAT COIL CONTROL VALVES TO MAINTAIN SPACE TEMPERATURE AT 0-3°F (ADJUSTABLE) BELOW THE OCCUPIED ZONE DRY BULB TEMPERATURE COOLING SETPOINT. WHEN THE ZONE RELATIVE HUMIDITY FALLS TO WITHIN 3% (ADJUSTABLE) OF THE ZONE RELATIVE HUMIDITY SETPOINT, THE UNIT SHALL DE-ENERGIZE THE HOT GAS REHEAT COIL AND DISABLE DEHUMIDIFICATION MODE.

HEATING MODE:
WHEN THE ZONE TEMPERATURE IS AT OR BELOW THE OCCUPIED ZONE DRY BULB TEMPERATURE HEATING SETPOINT OF 70°F (ADJUSTABLE), THE UNIT CONTROLLER SHALL ENGAGE HEATING MODE. IN THIS MODE, THE UNIT CONTROLLER SHALL USE ITS INTERNAL CONTROL ALGORITHMS TO MODULATE THE SUPPLY FAN SPEED AND MODULATE THE NATURAL GAS BURNER TO MAINTAIN THE OCCUPIED ZONE HEATING TEMPERATURE SETPOINT. IN HEATING MODE, THE SUPPLY FAN SPEED SHALL NOT BE ALLOWED TO MODULATE BELOW 50% OF THE MAXIMUM AIRFLOW RATE; THIS FAN SPEED SHALL BE DETERMINED DURING TEST AND BALANCE.

ZONE TEMPERATURE DEADBAND:
WHEN THE ZONE TEMPERATURE IS BETWEEN THE OCCUPIED ZONE DRY BULB TEMPERATURE HEATING AND COOLING SETPOINTS (70°F - 75°F, ADJUSTABLE) AND THE ZONE RELATIVE HUMIDITY IS NOT MORE THAN 10% ABOVE THE ZONE RELATIVE HUMIDITY SETPOINT OF 50% (ADJUSTABLE), THE UNIT SHALL DISABLE THE REFRIGERANT COMPRESSORS AND GAS BURNER TO PREVENT SIMULTANEOUS HEATING AND COOLING. THE MINIMUM OCCUPIED ZONE TEMPERATURE DEADBAND SHALL NOT BE ALLOWED TO BE LESS THAN 5°F; IF THE OCCUPIED ZONE HEATING OR COOLING SETPOINT IS ADJUSTED, THE BMS SHALL AUTOMATICALLY ADJUST THE CONVERSE SETPOINT TO MAINTAIN A 5°F DEADBAND.

UNOCCUPIED MODE:

WHEN THE UNIT IS PLACED IN UNOCCUPIED MODE, THE FOLLOWING ACTIONS SHALL OCCUR:

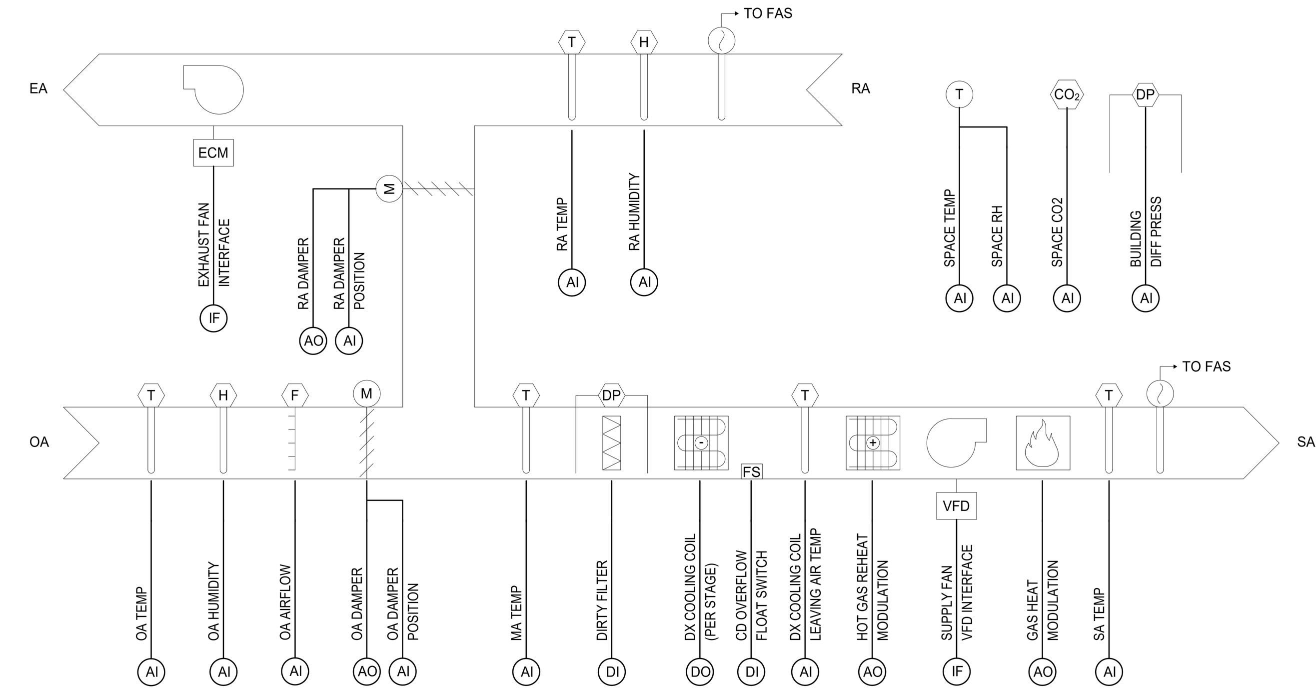
1. THE UNIT CONTROLLER SHALL USE ITS INTERNAL SHUTDOWN CONTROL ALGORITHMS TO DE-ENERGIZE THE REFRIGERANT COMPRESSORS, DE-ENERGIZE THE GAS BURNER, DE-ENERGIZE THE SUPPLY AIR FAN, DE-ENERGIZE THE EXHAUST FAN, CLOSE THE OUTDOOR AIR DAMPER, AND OPEN THE RETURN AIR DAMPER.
2. IF THE ZONE TEMPERATURE RISES ABOVE/DROPS BELOW THE UNOCCUPIED ZONE DRY BULB TEMPERATURE SETPOINTS OF 85°F (COOLING) AND 55°F (HEATING) (BOTH SETPOINTS ADJUSTABLE), THE BMS SHALL START THE UNIT AND THE UNIT SHALL ENABLE THE COOLING MODE/HEATING MODE SEQUENCES—WITH THE OUTDOOR AIR DAMPER CLOSED—UNTIL THE ZONE DRY BULB TEMPERATURE IS INSIDE THE UNOCCUPIED ZONE TEMPERATURE SETPOINTS BY AT LEAST 3°F.
3. IF THE ZONE HUMIDITY LEVEL RISES MORE THAN 15% ABOVE THE ZONE HUMIDITY LEVEL SETPOINT OF 50% (ADJUSTABLE), AND THE ZONE TEMPERATURE IS ABOVE THE OCCUPIED HEATING SETPOINT OF 75°F (ADJUSTABLE), THE BMS SHALL START THE UNIT AND THE UNIT SHALL ENABLE THE COOLING MODE SEQUENCE—WITH THE OUTDOOR AIR DAMPER CLOSED—UNTIL THE ZONE HUMIDITY LEVEL IS NO MORE THAN 10% ABOVE THE ZONE HUMIDITY LEVEL SETPOINT.

SMOKE DETECTION SHUTDOWN:

UPON ACTIVATION OF THE ASSOCIATED, HARD WIRED, INTERLOCKED DUCT SMOKE DETECTORS, THE FIRE ALARM SYSTEM SHALL DE-ENERGIZE THE UNIT (INCLUDING THE SUPPLY FAN, EXHAUST FAN, REFRIGERANT COMPRESSORS, AND GAS BURNER). THE UNIT CONTROLLER SHALL THEN SEND AN ALARM TO THE OPERATOR'S WORKSTATION. THE DUCT SMOKE DETECTORS SHALL BE ABLE TO BE REMOTELY RESET VIA THE FIRE ALARM PANEL OR REMOTE TEST SWITCH.

DRAIN PAN FLOAT SWITCH SHUTDOWN:

UPON ACTIVATION OF THE DRAIN PAN CONDENSATE FLOAT SWITCH, THE UNIT SHALL USE ITS INTERNAL SHUTDOWN CONTROL ALGORITHMS TO DE-ENERGIZE THE REFRIGERANT COMPRESSORS, GAS BURNER, AND SUPPLY AIR AND EXHAUST AIR FANS. THE OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL CLOSE, AND THE RETURN AIR DAMPER SHALL OPEN 100%. AN ALARM SHALL BE SENT TO THE OPERATOR'S WORKSTATION.



CONTROL POINT SCHEDULE

RTU-01 & RTU-02

#	DESCRIPTION	INPUT		OUTPUT	
		ANALOG	DIGITAL	ANALOG	DIGITAL
1	RETURN AIR DRY BULB TEMPERATURE	X			
2	RETURN AIR RELATIVE HUMIDITY (OR DEWPOINT)	X			
3	EXHAUST AIR FAN ECM INTERFACE (ON/OFF, STATUS)		X		X
4	EXHAUST AIR FAN ECM INTERFACE (SPEED CONTROL)			X	
5	RETURN AIR DAMPER CONTROL (0-100%)			X	
6	RETURN AIR DAMPER POSITION	X			
7	OUTDOOR AIR DRY BULB TEMPERATURE	X			
8	OUTDOOR AIR RELATIVE HUMIDITY (OR DEWPOINT)	X			
9	OUTDOOR AIRFLOW RATE	X			
10	OUTDOOR AIR DAMPER CONTROL (0 TO 100%)			X	
11	OUTDOOR AIR DAMPER POSITION	X			
12	MIXED AIR DRY BULB TEMPERATURE	X			
13	DIRTY AIR FILTER SWITCH		X		
14	DX COOLING COIL CONTROL (PER STAGE)				X
15	CONDENSATE OVERFLOW SWITCH		X		
16	LEAVING COOLING COIL AIR DRY BULB TEMPERATURE	X			
17	HOT GAS REHEAT COIL MODULATION			X	
18	SUPPLY AIR FAN VFD INTERFACE (ON/OFF, STATUS)		X		X
19	SUPPLY AIR FAN VFD INTERFACE (SPEED CONTROL)			X	
20	GAS HEAT MODULATION			X	
21	UNIT SUPPLY AIR DRY BULB TEMPERATURE	X			
22	ZONE AIR DRY BULB TEMPERATURE	X			
23	ZONE AIR DRY BULB TEMPERATURE SETPOINT	X			
24	ZONE AIR RELATIVE HUMIDITY	X			
25	ZONE AIR CO2 LEVEL	X			
26	BUILDING DIFFERENTIAL PRESSURE	X			

NOTES:

A. CONDENSING SECTION NOT SHOWN. EACH COMPRESSOR SHALL BE CAPABLE OF SENDING THE FOLLOWING INPUTS TO THE UNIT CONTROLLER: ON OR OFF, OUTDOOR COIL TEMPERATURE, HIGH PRESSURE, LOW PRESSURE. EACH CONDENSER FAN SHALL BE CAPABLE OF SENDING THE FOLLOWING INPUTS TO THE UNIT CONTROLLER: ON OR OFF. EACH COMPRESSOR AND EACH CONDENSER FAN SHALL BE CAPABLE OF RECEIVING THE FOLLOWING OUTPUTS FROM THE UNIT CONTROLLER: START OR STOP. THE CONDENSING SECTION SHALL OPERATE IN TANDEM WITH THE COOLING COIL TO MAINTAIN SUPPLY AIR TEMPERATURE.

GENERAL EXHAUST FAN

EF-01, -02, -03

SYSTEM DESCRIPTION:
THE EXHAUST FAN CONSISTS OF A DIRECT-DRIVE FAN, GRAVITY-OPERATED BACKDRAFT DAMPER, AND ALL ASSOCIATED APPURTENANCES AND DEVICES DEPICTED ON THE CONTROL SYSTEM DIAGRAM.

UNIT CONTROLLER & BMS INTEGRATION:
THE EXHAUST FAN SHALL BE SUPPLIED WITH A BACNET-COMPATIBLE, FACTORY-MOUNTED DDC CONTROLLER. THE HVAC CONTROLS CONTRACTOR SHALL INTEGRATE THE FAN CONTROLLER WITH THE EXISTING CAMPUS BMS AND SHALL PROVIDE THE NECESSARY CONTROL WIRING AND DEVICES (NETWORK CONTROLLERS, GATEWAYS, ETC.) FOR THE BMS TO GENERATE ALARMS.

SYSTEM STARTUP/SHUTDOWN

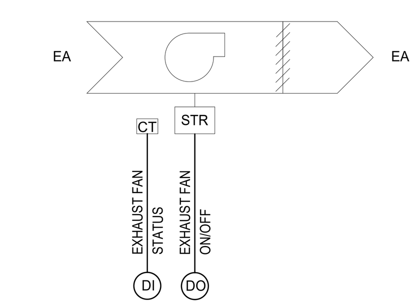
THE EXHAUST FAN SHALL BE STARTED/STOPPED THROUGH THE CAMPUS BMS.

OCCUPIED MODE:

WHEN THE SYSTEM IS PLACED IN OCCUPIED MODE, THE EXHAUST FAN SHALL OPERATE CONTINUOUSLY AT A CONSTANT SPEED, TO BE SET DURING TEST AND BALANCE. IF THE FAN FAILS TO START, AS INDICATED BY THE CURRENT TRANSMITTER, AN ALARM SHALL BE GENERATED AT THE OPERATOR'S WORKSTATION.

UNOCCUPIED MODE:

WHEN THE UNIT IS PLACED IN UNOCCUPIED MODE, THE EXHAUST FAN SHALL BE DE-ENERGIZED.



CONTROL POINT SCHEDULE

EF-01 & EF-02

#	DESCRIPTION	INPUT		OUTPUT	
		ANALOG	DIGITAL	ANALOG	DIGITAL
1	EXHAUST FAN ON/OFF				X
2	EXHAUST FAN STATUS		X		

STORM SHELTER (SS) EXHAUST FAN

EF-SS

SYSTEM DESCRIPTION:
THE STORM SHELTER EXHAUST FAN CONSISTS OF A DIRECT-DRIVE FAN, A TWO-SPEED CONTROLLER, A GRAVITY-OPERATED BACKDRAFT DAMPER, AND ALL ASSOCIATED APPURTENANCES AND DEVICES DEPICTED ON THE CONTROL SYSTEM DIAGRAM. THE STORM SHELTER EXHAUST FAN AND ASSOCIATED DUCT CONTROL DAMPER SHALL BE CONNECTED TO THE STORM SHELTER BACKUP POWER SOURCE - REFER TO ELECTRICAL DRAWINGS.

UNIT CONTROLLER & BMS INTEGRATION:
THE EXHAUST FAN SHALL BE SUPPLIED WITH A BACNET-COMPATIBLE, FACTORY-MOUNTED DDC CONTROLLER. THE HVAC CONTROLS CONTRACTOR SHALL INTEGRATE THE FAN CONTROLLER WITH THE EXISTING CAMPUS BMS AND SHALL PROVIDE THE NECESSARY CONTROL WIRING AND DEVICES (NETWORK CONTROLLERS, GATEWAYS, ETC.) FOR THE BMS TO GENERATE ALARMS. THE ASSOCIATED EMERGENCY STORM EVENT SWITCH AND DUCT CONTROL DAMPER SHALL BE INTEGRATED DIRECTLY WITH THE EXHAUST FAN CONTROLLER AND SHALL BE ABLE TO OPERATE WITHOUT INPUT FROM THE CAMPUS BMS.

SYSTEM STARTUP/SHUTDOWN

THE EXHAUST FAN SHALL BE STARTED/STOPPED THROUGH THE CAMPUS BMS. IF THE EMERGENCY STORM EVENT SWITCH IS ENABLED, THE EXHAUST FAN SHALL START AUTOMATICALLY.

OCCUPIED MODE, NORMAL OPERATION:

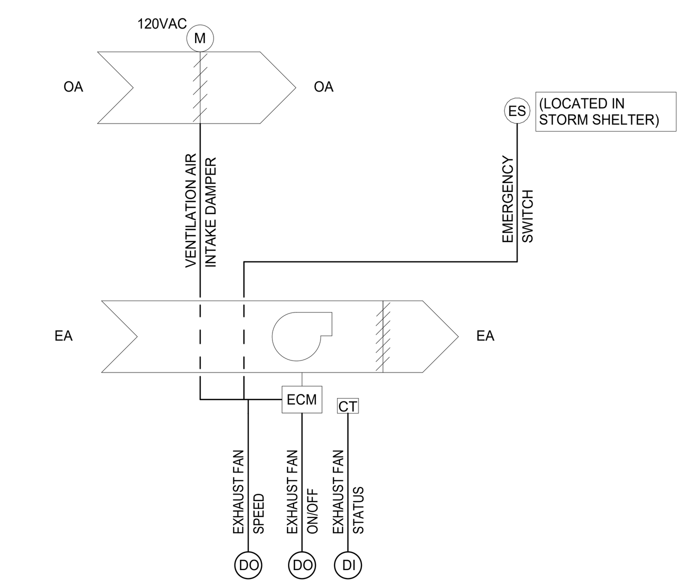
WHEN THE SYSTEM IS PLACED IN OCCUPIED MODE, THE EXHAUST FAN SHALL OPERATE CONTINUOUSLY AT THE LOWER CONSTANT SPEED, SET TO ACHIEVE THE MINIMUM EXHAUST AIRFLOW, DETERMINED DURING TEST AND BALANCE. IF THE FAN FAILS TO START, AS INDICATED BY THE CURRENT TRANSMITTER, AN ALARM SHALL BE GENERATED AT THE OPERATOR'S WORKSTATION.

UNOCCUPIED MODE:

WHEN THE UNIT IS PLACED IN UNOCCUPIED MODE, THE EXHAUST FAN SHALL BE DE-ENERGIZED.

EMERGENCY STORM EVENT MODE:

WHEN THE EMERGENCY STORM EVENT SWITCH IS ACTIVATED, THE EXHAUST FAN SHALL START AND THE FAN CONTROLLER SHALL SET THE FAN SPEED AT THE HIGHER SPEED SETTING, SET TO ACHIEVE THE MAXIMUM EXHAUST AIRFLOW, DETERMINED DURING TEST AND BALANCE. AT THE SAME TIME, THE ASSOCIATED MAKEUP AIR INTAKE DUCT CONTROL DAMPER SHALL BE OPENED.



CONTROL POINT SCHEDULE

EF-01 & EF-02

#	DESCRIPTION	INPUT		OUTPUT	
		ANALOG	DIGITAL	ANALOG	DIGITAL
1	EXHAUST FAN ON/OFF				X
2	EXHAUST FAN SPEED			X	
3	EXHAUST FAN STATUS		X		

DEDICATED OUTDOOR AIR PACKAGED ROOFTOP UNIT WITH GAS HEAT

DOAS-01

SYSTEM DESCRIPTION:
THE DEDICATED OUTDOOR AIR (DAOS) PACKAGED RTU CONSISTS OF A OUTDOOR AIR INTAKE WITH OUTDOOR AIR DAMPER, PLEATED FILTERS, A DIRECT EXPANSION COOLING COIL, A MODULATING HOT GAS REHEAT COIL, A MODULATING NATURAL GAS BURNER, A DIRECT DRIVE SUPPLY AIR FAN WITH VFD, AND ALL ASSOCIATED APPURTENANCES AND DEVICES DEPICTED ON THE CONTROL SYSTEM DIAGRAM.

UNIT CONTROLLER & BMS INTEGRATION:
THE UNIT SHALL BE SUPPLIED WITH A BACNET-COMPATIBLE, FACTORY-MOUNTED DDC CONTROLLER. THE UNIT CONTROLLER SHALL BE PROGRAMMED AT THE FACTORY BY THE MANUFACTURER WITH THE MANUFACTURER'S STANDARD CONTROL ALGORITHMS FOR THE REQUIRED SEQUENCES INDICATED BELOW. THE HVAC CONTROLS CONTRACTOR SHALL INTEGRATE THE UNIT CONTROLLER WITH THE EXISTING CAMPUS BMS AND SHALL PROVIDE THE NECESSARY CONTROL WIRING AND DEVICES (NETWORK CONTROLLERS, GATEWAYS, ETC.) FOR THE BMS TO MONITOR AND ADJUST SETPOINTS AND GENERATE ALARMS.

SYSTEM STARTUP/SHUTDOWN

THE UNIT SHALL BE STARTED/STOPPED THROUGH THE CAMPUS BMS. THE CAMPUS BMS SHALL ALLOW THE OPERATOR TO SET AND ADJUST OCCUPIED/UNOCCUPIED MODES BASED ON A 24-HOUR, 7-DAY SCHEDULE WITH OPTIONAL SEASONAL ADJUSTMENT (SUMMER/WINTER BREAK, ETC.).

OCCUPIED MODE:

WHEN THE SYSTEM IS PLACED IN OCCUPIED MODE, THE FOLLOWING FACTORY-PROGRAMMED STANDARD SEQUENCES SHALL BE ENABLED:

OUTDOOR AIR / RETURN AIR DAMPER CONTROL FOR VENTILATION:
THE OUTDOOR AIR DAMPER SHALL BE OPENED TO ITS OPEN POSITION, DETERMINED DURING TEST AND BALANCE.

SUPPLY AIR FAN CONTROL:
THE SUPPLY AIR FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE. THE UNIT SHALL USE ITS INTERNAL CONTROL ALGORITHMS TO VARY THE SPEED OF THE SUPPLY FAN TO MAINTAIN THE OUTDOOR AIRFLOW RATE SETPOINT.

COOLING MODE:
WHEN THE OUTDOOR AIR DRYBULB TEMPERATURE IS AT OR ABOVE THE COOLING SETPOINT OF 75°F (ADJUSTABLE), OR IF THE OUTDOOR AIR DEWPOINT TEMPERATURE IS ABOVE THE DEHUMIDIFICATION SETPOINT OF 55°F (ADJUSTABLE), THE UNIT CONTROLLER SHALL ENABLE COOLING MODE. IN THIS MODE, THE UNIT CONTROLLER SHALL UTILIZE ITS INTERNAL CONTROL ALGORITHMS TO STAGE THE REFRIGERANT COMPRESSORS TO MAINTAIN A MAXIMUM COOLING COIL LEAVING AIR TEMPERATURE OF 55°F (ADJUSTABLE).

HOT GAS REHEAT:
WHEN THE UNIT IS IN COOLING MODE, THE UNIT CONTROLLER SHALL MODULATE THE HOT GAS REHEAT COIL TO MAINTAIN THE DISCHARGE AIR DRYBULB TEMPERATURE SETPOINT OF 70°F (ADJUSTABLE). THE BMS WILL CONTINUALLY MONITOR THE COOLING DEMAND OF THE ASSOCIATED ZONES. IF ALL ZONES ASSOCIATED WITH THE DOAS HAVE A DEMAND FOR COOLING, THE BMS SHALL RESET THE DISCHARGE AIR TEMPERATURE SETPOINT TO 55°F, ALLOWING THE UNIT TO DISABLE THE HOT GAS REHEAT COIL TO ASSIST IN SPACE COOLING.

HEATING MODE:
WHEN THE OUTDOOR AIR TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT OF 70°F (ADJUSTABLE), THE UNIT CONTROLLER SHALL ENGAGE HEATING MODE. IN THIS MODE, THE UNIT CONTROLLER SHALL USE ITS INTERNAL CONTROL ALGORITHMS TO MODULATE THE NATURAL GAS BURNER TO MAINTAIN THE DISCHARGE AIR DRYBULB TEMPERATURE HEATING SETPOINT OF 70°F. IN THIS MODE, THE BMS WILL CONTINUALLY MONITOR THE COOLING DEMAND OF THE ASSOCIATED ZONES. IF ALL ZONES ASSOCIATED WITH THE DOAS HAVE A DEMAND FOR COOLING, THE BMS SHALL RESET THE DISCHARGE AIR DRYBULB TEMPERATURE HEATING SETPOINT TO 55°F UNTIL ANY ZONE HAS A DEMAND FOR HEATING.

DISCHARGE AIR TEMPERATURE DEADBAND:
WHEN THE OUTDOOR AIR DRYBULB TEMPERATURE IS BETWEEN THE DISCHARGE AIR TEMPERATURE HEATING AND COOLING SETPOINTS (70°F - 75°F, ADJUSTABLE) AND THE OUTDOOR AIR DEWPOINT IS AT OR BELOW 55°F, THE UNIT SHALL DISABLE THE REFRIGERANT COMPRESSORS AND GAS BURNER TO PREVENT SIMULTANEOUS HEATING AND COOLING. THE MINIMUM DISCHARGE AIR TEMPERATURE DEADBAND SHALL NOT BE ALLOWED TO BE LESS THAN 5°F; IF THE HEATING OR COOLING SETPOINT IS ADJUSTED, THE BMS SHALL AUTOMATICALLY ADJUST THE CONVERSE SETPOINT TO MAINTAIN A 5°F DEADBAND.

UNOCCUPIED MODE:

WHEN THE UNIT IS PLACED IN UNOCCUPIED MODE, THE FOLLOWING ACTIONS SHALL OCCUR:

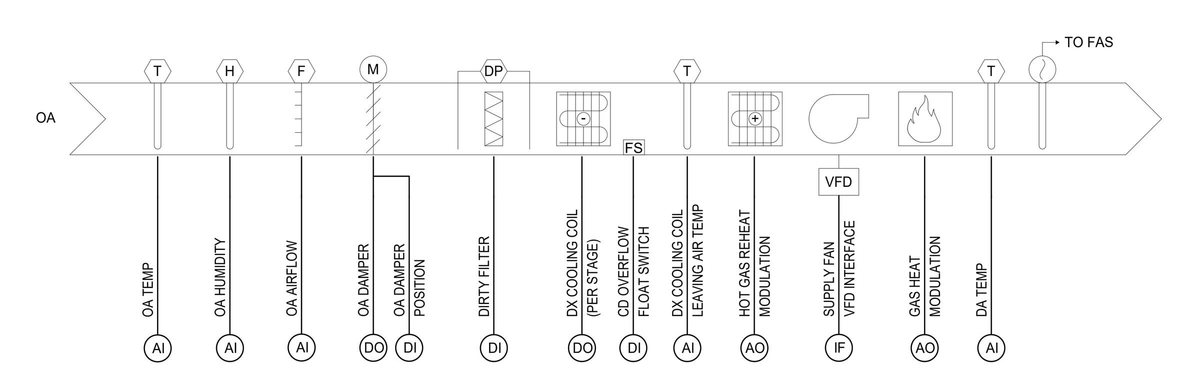
1. THE UNIT CONTROLLER SHALL USE ITS INTERNAL SHUTDOWN CONTROL ALGORITHMS TO DE-ENERGIZE THE REFRIGERANT COMPRESSORS, DE-ENERGIZE THE GAS BURNER, DE-ENERGIZE THE SUPPLY AIR FAN, AND CLOSE THE OUTDOOR AIR DAMPER.

SMOKE DETECTION SHUTDOWN:

UPON ACTIVATION OF THE ASSOCIATED, HARD WIRED, INTERLOCKED DUCT SMOKE DETECTOR, THE FIRE ALARM SYSTEM SHALL DE-ENERGIZE THE UNIT (INCLUDING THE SUPPLY FAN, REFRIGERANT COMPRESSORS, AND GAS BURNER). THE UNIT CONTROLLER SHALL THEN SEND AN ALARM TO THE OPERATOR'S WORKSTATION. THE DUCT SMOKE DETECTOR SHALL BE ABLE TO BE REMOTELY RESET VIA THE FIRE ALARM PANEL OR REMOTE TEST SWITCH.

DRAIN PAN FLOAT SWITCH SHUTDOWN:

UPON ACTIVATION OF THE DRAIN PAN CONDENSATE FLOAT SWITCH, THE UNIT SHALL USE ITS INTERNAL SHUTDOWN CONTROL ALGORITHMS TO DE-ENERGIZE THE REFRIGERANT COMPRESSORS, GAS BURNER, AND SUPPLY AIR FANS. THE OUTDOOR AIR DAMPER SHALL CLOSE. AN ALARM SHALL BE SENT TO THE OPERATOR'S WORKSTATION.



CONTROL POINT SCHEDULE

RTU-01 & RTU-02

#	DESCRIPTION	INPUT		OUTPUT	
		ANALOG	DIGITAL	ANALOG	DIGITAL
1	OUTDOOR AIR DRY BULB TEMPERATURE	X			
2	OUTDOOR AIR RELATIVE HUMIDITY (OR DEWPOINT)	X			
3	OUTDOOR AIRFLOW RATE	X			
4	OUTDOOR AIR DAMPER CONTROL (OPEN/CLOSE)				X
5	OUTDOOR AIR DAMPER POSITION (OPEN/CLOSE)		X		
6	DIRTY AIR FILTER SWITCH		X		
7	DX COOLING COIL CONTROL (PER STAGE)				X
8	CONDENSATE OVERFLOW SWITCH		X		
9	LEAVING COOLING COIL AIR DRY BULB TEMPERATURE	X			
10	HOT GAS REHEAT COIL MODULATION			X	
11	SUPPLY AIR FAN VFD INTERFACE (ON/OFF, STATUS)		X		X
12	SUPPLY AIR FAN VFD INTERFACE (SPEED CONTROL)			X	
13	GAS HEAT MODULATION			X	
14	UNIT DISCHARGE AIR DRY BULB TEMPERATURE	X			

NOTES:

A. CONDENSING SECTION NOT SHOWN. EACH COMPRESSOR SHALL BE CAPABLE OF SENDING THE FOLLOWING INPUTS TO THE UNIT CONTROLLER: ON OR OFF, OUTDOOR COIL TEMPERATURE, HIGH PRESSURE, LOW PRESSURE. EACH CONDENSER FAN SHALL BE CAPABLE OF SENDING THE FOLLOWING INPUTS TO THE UNIT CONTROLLER: ON OR OFF. EACH COMPRESSOR AND EACH CONDENSER FAN SHALL BE CAPABLE OF RECEIVING THE FOLLOWING OUTPUTS FROM THE UNIT CONTROLLER: START OR STOP. THE CONDENSING SECTION SHALL OPERATE IN TANDEM WITH THE COOLING COIL TO MAINTAIN SUPPLY AIR TEMPERATURE.

VRF INDOOR AIR HANDLING UNIT

TYPICAL FOR ALL VRF

SYSTEM DESCRIPTION:
THE VRF INDOOR AIR HANDLING UNIT CONSISTS OF A RETURN AIR INTAKE, REPLACEABLE FILTER, A DIRECT EXPANSION HEAT PUMP COIL, A DIRECT DRIVE SUPPLY AIR FAN, AND ALL ASSOCIATED APPURTENANCES AND DEVICES DEPICTED ON THE CONTROL SYSTEM DIAGRAM.

UNIT CONTROLLER & BMS INTEGRATION:
THE VRF INDOOR UNIT WILL INTERFACE WITH THE ASSOCIATED OUTDOOR HEAT PUMP CONDENSING UNIT AND THE SYSTEM BRANCH CONTROLLERS. THE VRF SYSTEM SHALL BE CONFIGURED AT THE FACTORY BY THE MANUFACTURER WITH THE MANUFACTURER'S STANDARD CONTROL ALGORITHMS TO STAGE THE OUTDOOR UNIT COMPRESSORS AND MODULATE THE BRANCH CONTROLLER CONTROL VALVES. THE HVAC CONTROLS CONTRACTOR SHALL INTEGRATE THE VRF UNIT CONTROLLER WITH THE EXISTING CAMPUS BMS AND SHALL PROVIDE THE NECESSARY CONTROL WIRING AND DEVICES (NETWORK CONTROLLERS, GATEWAYS, ETC.) FOR THE BMS TO MONITOR AND ADJUST ROOM TEMPERATURE SETPOINTS AND GENERATE ALARMS.

SYSTEM STARTUP/SHUTDOWN

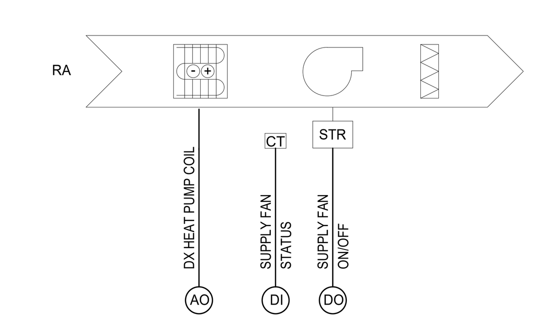
THE UNIT SHALL BE STARTED/STOPPED THROUGH THE CAMPUS BMS. THE CAMPUS BMS SHALL ALLOW THE OPERATOR TO SET AND ADJUST OCCUPIED/UNOCCUPIED MODES BASED ON A 24-HOUR, 7-DAY SCHEDULE WITH OPTIONAL SEASONAL ADJUSTMENT (SUMMER/WINTER BREAK, ETC.).

OCCUPIED MODE:

WHEN THE SYSTEM IS PLACED IN OCCUPIED MODE, THE VRF SYSTEM SHALL UTILIZE ITS INTERNAL CONTROL ALGORITHMS TO MAINTAIN THE OCCUPIED ZONE DRYBULB TEMPERATURE BETWEEN THE HEATING AND COOLING SETPOINTS OF 70°F AND 75°F (ADJUSTABLE). THE MINIMUM ZONE TEMPERATURE DEADBAND SHALL NOT BE ALLOWED TO BE LESS THAN 5°F; IF THE HEATING OR COOLING SETPOINT IS ADJUSTED, THE BMS SHALL AUTOMATICALLY ADJUST THE CONVERSE SETPOINT TO MAINTAIN A 5°F DEADBAND.

UNOCCUPIED MODE:

WHEN THE UNIT IS PLACED IN UNOCCUPIED MODE, THE UNIT CONTROLLER SHALL USE ITS INTERNAL SHUTDOWN CONTROL ALGORITHMS TO DE-ENERGIZE THE REFRIGERANT COMPRESSORS AND DE-ENERGIZE THE INDOOR UNIT SUPPLY FANS. IF THE ZONE TEMPERATURE RISES ABOVE/DROPS BELOW THE UNOCCUPIED ZONE DRY BULB TEMPERATURE SETPOINTS OF 85°F (COOLING) AND 55°F (HEATING) (BOTH SETPOINTS ADJUSTABLE), THE BMS SHALL START THE UNIT AND THE UNIT SHALL ENABLE THE COOLING MODE/HEATING MODE SEQUENCES UNTIL THE ZONE DRY BULB TEMPERATURE IS INSIDE THE UNOCCUPIED ZONE TEMPERATURE SETPOINTS BY AT LEAST 3°F.



CONTROL POINT SCHEDULE

RTU-01 & RTU-02

#	DESCRIPTION	INPUT		OUTPUT	
		ANALOG	DIGITAL	ANALOG	DIGITAL
1	DX HEAT PUMP CONTROL			X	
2	SUPPLY AIR FAN ON/OFF				X
3	SUPPLY AIR FAN STATUS		X		
4	ZONE AIR DRY BULB TEMPERATURE	X			
5	ZONE AIR DRY BULB TEMPERATURE SETPOINT	X			
6	ZONE AIR HUMIDITY	X			

GMC

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: JHS
CHECKED BY: ARH

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED No. 38810 PROFESSIONAL ENGINEER 11/14/2024 ANDREAS R. HAUN

MECHANICAL CONTROL DIAGRAMS

M7.01

11/14/2024 3:07:15 PM TEMPLATE VERSION: 2022.1

POWER DEVICES

- SIMPLEX RECEPTACLE, NEMA 5-20R
- DUPLEX RECEPTACLE, NEMA 5-20R U.O.N.
- DUPLEX RECEPTACLE, CEILING
- DUPLEX RECEPTACLE, COUNTER HEIGHT
- QUADRUPLEX RECEPTACLE
- FLOOR BOX - RECEPTACLES AS INDICATED
- SPECIAL RECEPTACLE 208 OR 240V- RATING AS NOTED
- SPECIAL RECEPTACLE 480V- RATING AS NOTED
- (J) JUNCTION BOX

RECEPTACLE DESIGNATIONS:
GF: GROUND FAULT CIRCUIT INTERRUPTER
WP: GFCI WITH WEATHERPROOF COVER
TR: TAMPER RESISTANT
EP: EXPLOSION PROOF
EWC: ELECTRIC WATER COOLER, GFCI PROTECTED

ONE-LINE DIAGRAM SYMBOLS

- BUS
- BUS OR CABLE TERMINATION
- CONDUCTORS / CABLES
- BUSWAY
- TRANSFORMER, TYPE AND RATING AS INDICATED
- (G) GENERATOR, TYPE AND RATINGS AS INDICATED
- (N) (S) AUTOMATIC TRANSFER SWITCH
- UPS UNINTERRUPTIBLE POWER SUPPLY
- (M) METER
- CURRENT TRANSFORMER
- FFF / TTT LOW VOLTAGE POWER CIRCUIT BREAKER, DRAW-OUT
  FFF = FRAME RATING
  TTT = TRIP RATING
- FFF / TTT LOW VOLTAGE POWER CIRCUIT BREAKER, FIXED
  FFF = FRAME RATING
  TTT = TRIP RATING
- MOLDED CASE CIRCUIT BREAKER

CIRCUIT BREAKER FEATURES AND TRIP FUNCTIONS
LSIG = LONG TIME; SHORT TIME; INSTANTANEOUS; GROUND FAULT INTERRUPTING
EO = ELECTRICALLY OPERATED
ST = SHUNT TRIP

- SWITCH (SERVICE ENTRANCE OR FEEDER)
- FUSE
- SWITCH, FUSED OR NON-FUSED AS INDICATED (BRANCH CIRCUIT OR EQUIPMENT FEEDER)
- MOTOR STARTER
- VFD VARIABLE FREQUENCY DRIVE
- CONTACTOR
- MOTOR
- PANEL H1 225A MLO PANELBOARD, 480Y/277V
- PANEL L1 225A MLO PANELBOARD, 208Y/120V OR 240/120V
- CONNECTION TO SYSTEM GROUND OR GROUNDING ELECTRODE

ANNOTATIONS

- 1 KEY NOTE
- 800.4 FEEDER TAG - REFER TO FEEDER SCHEDULE
- LIGHTING CONTROL KEY

COMMUNICATIONS

- VOICE OUTLET - 2-1/8" DEEP 4" BOX W/ 1-GANG P-RING, 3/4" CONDUIT WITH PULL STRING AND BUSHINGS TO ACCESSIBLE CEILING. PROVIDE VOICE CABLES, QTY AS INDICATED, ONE IF NOT INDICATED, BACK TO IDF/MDF.
- DATA OUTLET - 2-1/8" DEEP 4" BOX W/ 1-GANG P-RING, 3/4" CONDUIT WITH PULL STRING AND BUSHINGS TO ACCESSIBLE CEILING. PROVIDE DATA CABLES, QTY AS INDICATED, ONE IF NOT INDICATED, BACK TO IDF/MDF.
- WALL TELEPHONE - 2-1/8" DEEP 4" BOX W/ 1-GANG P-RING, 3/4" CONDUIT WITH PULL STRING AND BUSHINGS TO ACCESSIBLE CEILING. PROVIDE ONE VOICE CABLE BACK TO IDF/MDF. PROVIDE 2-STUD WALL MOUNT FACEPLATE.
- FLOOR BOX - REFER TO PLANS, SCHEDULES, AND SPECIFICATIONS FOR REQUIREMENTS.
- TTB TTB (TELEPHONE BACKBOARD)
- (J) DATA JUNCTION BOX, SERVICE AS INDICATED
- WAP WIRELESS ACCESS POINT - PROVIDE STANDARD BOX W/ 1-GANG P-RING, 3/4" CONDUIT TO ACCESSIBLE CEILING. ONE CAT-6 CABLE BACK TO IDF/MDF. WHERE INDICATED IN OPEN CEILINGS, PROVIDE SURFACE MOUNT 1-PORT OUTLET ("BISCUIT") AT END OF SERVICE LOOP.
- TV COMBINATION FLUSH-MOUNTED POWER, DATA, AND A/V BOX, SIMILAR TO PASS & SEYMOUR TV2MW. 1-1/4" EMT FROM A/V COMPARTMENT TO ACCESSIBLE CEILING W/ PULL STRING AND BUSHINGS. CAREFULLY COORDINATE LOCATION WITH ARCH AND OWNER, AND FIELD COORDINATE WITH WALL TYPES TO ENSURE ADEQUATE DEPTH.
- HD HDMI CONNECTION BOX: 2-1/8" DEEP 4-11/16" BOX W/ 1-GANG P-RING, (1) 3/4" AND (1) 1-1/4" CONDUITS WITH PULL STRING AND BUSHINGS TO ACCESSIBLE CEILING. PROVIDE DATA CABLES, QTY AS INDICATED, TWO IF NOT INDICATED, BACK TO IDF/MDF.
- IC IP-BASED INTERCOM/CLOCK SYSTEM OUTLET - PROVIDE STANDARD BOX W/ 1-GANG P-RING, 3/4" CONDUIT TO ACCESSIBLE CEILING. ONE CAT-6 CABLE BACK TO IDF/MDF.

FIRE ALARM

- FACP FIRE ALARM CONTROL PANEL (FACP)
- FAXP FIRE ALARM EXTENDER PANEL (FAXP)
- ANN FIRE ALARM ANNUNCIATOR PANEL
- F MANUAL PULL STATION
- AUDIBLE AND VISUAL SIGNAL DEVICE (HORN STROBE). 75cd UNLESS OTHERWISE NOTED
- C CEILING MOUNTED AUDIBLE AND VISUAL SIGNAL DEVICE (CEILING HORN STROBE). 75cd UNLESS OTHERWISE NOTED
- AUDIBLE AND VISUAL SIGNAL DEVICE (SPEAKER STROBE). 75cd UNLESS OTHERWISE NOTED
- C CEILING MOUNTED AUDIBLE AND VISUAL SIGNAL DEVICE (CEILING SPEAKER STROBE). 75cd UNLESS OTHERWISE NOTED
- VISUAL SIGNAL DEVICE (STROBE). 75cd UNLESS OTHERWISE NOTED
- CEILING MOUNTED VISUAL SIGNAL DEVICE (CEILING STROBE). 75cd UNLESS OTHERWISE NOTED
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR
- TS FIRE ALARM TAMPER SWITCH
- FS FIRE ALARM FLOW SWITCH
- B EXTERIOR SPRINKLER FLOW BELL
- M/D MONITORING MODULE. "D" INDICATES DUAL INPUTS
- SD SMOKE DAMPER
- FIRE/SMOKE DAMPER WITH ACCESS PANEL LOCATION
- RTI DUCT SMOKE DETECTOR REMOTE TEST INDICATION STATION
- GAS SHUTOFF SOLENOID VALVE
- R RELAY
- XXcd CANDELA RATING

GROUNDING AND LPS

- GROUND ROD
- EXOTHERMIC WELD
- TEST WELL
- CROSS CONDUCTOR
- AIR TERMINAL
- DN DOWN CONDUCTOR
- COUNTERPOISE CONDUCTOR

SWITCHES AND CONTROLLERS

- M MANUAL STARTER (HP RATED SWITCH)
- J DISCONNECT, NON-FUSED
- J DISCONNECT, FUSED
- ENCLOSED CIRCUIT BREAKER
- J COMBINATION MOTOR STARTER
- VFD VARIABLE FREQUENCY DRIVE
- PUSHBUTTON
- RR/P FF X DISCONNECT/ENCLOSED BREAKER RATINGS
  RR: CONTINUOUS/FRAME RATING
  P: NUMBER OF POLES
  FF: FUSE/TRIP RATING; " NF " = NON-FUSED
  X: ENCLOSURE TYPE, NEMA 1 IF OMITTED
- SS/P BB X COMBINATION STARTER RATINGS
  SS: NEMA STARTER SIZE
  P: NUMBER OF POLES
  BB: BREAKER SIZE
  X: ENCLOSURE TYPE, NEMA 1 IF OMITTED

CIRCUITS

NOTE: WIRING AND HOMERUN ARROWS MAY NOT BE SHOWN, IN WHICH CASE CIRCUITS ARE SHOWN ADJACENT TO EQUIPMENT AND FIXTURES, AND CONTRACTOR IS TO DETERMINE APPROPRIATE ROUTING OF CIRCUITS BASED ON APPLICABLE CODES, PROJECT REQUIREMENTS, AND FIELD CONDITIONS.

- H1-XX HOME RUN, CIRCUIT AS INDICATED
- WIRE TICK MARKS:
  SHORT: HOT CONDUCTOR(S)
  LONG: NEUTRAL CONDUCTOR(S)
  DIAGONAL: GROUND CONDUCTOR (S)
- (2) #12, (1) #12, (1) #12G HOMERUN OR BRANCH CONDUCTOR TAG
  TOP: HOT CONDUCTOR(S)
  MIDDLE (IF SHOWN): NEUTRAL CONDUCTOR(S)
  BOTTOM: GROUND CONDUCTOR(S)

LIGHTING

NOTE: ADDITIONAL FIXTURE SHAPES AND STYLES MAY BE USED THAT DO NOT APPEAR HERE. REFER TO FIXTURE SCHEDULE, LIGHTING PLANS, AND SPECIFICATIONS.
* EMERGENCY FIXTURES MAY SUPPLIED BY EMERGENCY CIRCUITS OR CONTAIN INTEGRAL BACKUP BATTERY SYSTEMS.

- LED STRIP FIXTURE, 4'
- LED STRIP FIXTURE, 4', EMERGENCY POWER*
- 1' X 4' LED RECESSED FIXTURE
- 1' X 4' LED RECESSED FIXTURE, EMERGENCY POWER*
- 2' X 2' LED RECESSED FIXTURE
- 2' X 2' LED RECESSED FIXTURE, EMERGENCY POWER*
- 2' X 4' LED RECESSED FIXTURE
- 2' X 4' LED RECESSED FIXTURE, EMERGENCY POWER*
- LED RECESSED DOWNLIGHT
- LED RECESSED DOWNLIGHT, EMERGENCY POWER*
- LED LINEAR SURFACE OR PENDANT
- LED LINEAR SURFACE OR PENDANT, EMERGENCY POWER*
- HIGH BAY OR LOW BAY FIXTURE
- WALL SCONCE
- LED TWIN-HEAD UNIVERSAL EMERGENCY FIXTURE
- EXIT FIXTURE, LED - ILLUMINATED FACE(S) AND DIRECTIONAL ARROWS AS INDICATED
- EXTERIOR WALL PACK
- POLE-MOUNTED FIXTURE
- EXTERIOR POLE TOP MOUNTED FIXTURES
- $ SINGLE POLE SWITCH, 20A, 120/277V.
- $3 THREE WAY WALL SWITCH.
- $4 FOUR WAY WALL SWITCH.
- $D DIMMER SWITCH.
- $K KEYED WALL SWITCH.
- $L LOW VOLTAGE SWITCH.
- $O WALL MOUNTED OCCUPANCY SENSOR SWITCH
- $WP SINGLE POLE SWITCH IN WEATHERPROOF ENCLOSURE
- OC CEILING-MOUNTED OCCUPANCY SENSOR
- DS CEILING-MOUNTED DAYLIGHT SENSOR
- OD CEILING-MOUNTED COMBINATION OCCUPANCY & DAYLIGHT SENSOR
- PC PHOTOCELL.

RACEWAY AND ENCLOSURES

- CONDUIT, EXPOSED OR ABOVE CEILING
- CONDUIT, UNDERGROUND
- CONDUIT, TURNED UP
- CONDUIT, TURNED DOWN
- CABLE TRAY, LADDER TYPE
- CABLE TRAY, WIRE BASKET TYPE
- MANHOLE OR HANDHOLE, AS INDICATED
- 18" X 36" MISCELLANEOUS ENCLOSURE OR WIREWAY, SIZE AS INDICATED

SECURITY

- CR CARD READER
- EL ELECTRIC STRIKE
- DC DOOR CONTACT
- WC WINDOW CONTACT
- DH MAGNETIC DOOR HOLDER
- KP KEYPAD
- SEC SECURITY SYSTEM PANEL
- IR INFRARED MOTION SENSOR
- CAM CAMERA

DISTRIBUTION EQUIPMENT

- TX DRY-TYPE TRANSFORMER, RATING AS MARKED
- PANELBOARD - 208Y/120V OR 240/120V, REFER TO SCHEDULES AND ONE-LINE DIAGRAMS
- PANELBOARD - 480Y/277V, REFER TO SCHEDULES AND ONE-LINE DIAGRAMS
- ATS AUTOMATIC TRANSFER SWITCH
- SB SWITCHBOARD OR SWITCHGEAR, REFER TO SCHEDULES AND ONE-LINE DIAGRAMS
- SPD SURGE PROTECTIVE DEVICE

ABBREVIATIONS AND ACRONYMS

(APPLIES TO ALL ELECTRICAL SHEETS)

A	AMPERES	MLO	MAIN LUG ONLY
AC	ALTERNATING CURRENT	N	NEUTRAL
ADA	AMERICANS WITH DISABILITIES ACT	NA	NOT APPLICABLE
AFF	ABOVE FINISHED FLOOR	N.C.	NORMALLY CLOSED
AFG	ABOVE FINISHED GRADE	NF	NON-FUSED
AHU	AIR HANDLING UNIT	NEC	NATIONAL ELECTRICAL CODE
AIC	AMPERE INTERRUPTING CAPACITY	NIC	NOT IN CONTRACT
ASSOC	ASSOCIATION	NEMA	NATIONAL ELECTRICAL MANUF ASSOC
A/V	AUDIO VISUAL	NFPA	NATIONAL FIRE PROTECTION ASSOC
AWG	AMERICAN WIRE GAUGE	NL	NIGHT LIGHTING
BAS	BUILDING AUTOMATION SYSTEM	N.O.	NORMALLY OPEN
BOD	BASIS OF DESIGN	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
C	CONDUIT	NTS	NOT TO SCALE
CLG	CEILING	O.C.	ON CENTER
COMM	COMMUNICATION	OCPD	OVER CURRENT PROTECTION DEVICE
CU	COPPER	OH	OVERHEAD
DISC	DISCONNECT	PNL	PANELBOARD
DIV	DIVISION	PROJ	PROJECTOR
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
ECB	ENCLOSED CIRCUIT BREAKER	RM	ROOM
EF	EXHAUST FAN	RECPT(S)	RECEPTACLE(S)
ELEC	ELECTRICAL	RGS	RIGID GALVANIZED STEEL
EM	EMERGENCY	SN	SOLID NEUTRAL
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SEC	SECURITY
EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTION DEVICE
EST	ESTIMATED	SPEC	SPECIFICATION
ETR	EXISTING TO REMAIN	SPST	SINGLE POLE SINGLE THROW
FACP	FIRE ALARM CONTROL PANEL	SQ	SQUARE
FAXP	FIRE ALARM EXTENDER PANEL	SW	SWITCH
GF	GROUND FAULT CIRCUIT INTERRUPTER	TEL	TELEPHONE
GND	GROUND	TEMP	TEMPORARY
HVAC	HEATING, VENTILATING & AIR CONDITIONING	TTC	TELEPHONE TERMINAL CABINET
JBOX	JUNCTION BOX	TYP	TYPICAL
KAIC	(THOUSAND) AMPERE INTERRUPTING CAPACITY	UG	UNDERGROUND
KCMIL	THOUSAND OF CIRCULAR MILS	UH	UNIT HEATER
KVA	KILOVOLT-AMPERES	UON	UNLESS OTHERWISE NOTED
KW	KILOWATT	USB	UNIVERSAL SERIAL BUS
LC	LIGHTING CONTACTOR	V	VOLTS
LCP	LIGHTING CONTROL PANEL	W	WIRE
LED	LIGHT EMITTING DIODE	WP	WEATHER PROOF
LTG	LIGHTING	XFMR	TRANSFORMER
LTS	LIGHTS	Y	WYE (CONNECTED)
LSI	LONG, SHORT, INSTANTANEOUS		
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND FAULT		
MANUF	MANUFACTURERS		
MFR	MANUFACTURER		
MFRS	MANUFACTURERS		
MCB	MAIN CIRCUIT BREAKER		

DEVICE MOUNTING HEIGHTS

SWITCHES	46" AFF TO CENTER LINE OF BOX, UON
RECEPTACLES	18" AFF TO CENTER LINE, UON
COUNTER HEIGHT RECEPTACLES	42" AFF TO CENTER LINE OR 2" ABOVE BACKSPLASH UON
TELEPHONE/DATA OUTLET (OFFICES)	18" AFF TO CENTER LINE, UON
WALL MOUNTED TELEPHONE	50" AFF TO CENTER LINE OF BOX, UON
WALL CLOCK/INTERCOM	84" AFG TO BOTTOM, UON
EXTERIOR WALL RECEPTACLES	24" AFG TO BOTTOM, UON

ALL HEIGHTS ARE BASED ON NON-OBSTRUCTED REACH. MODIFY MOUNTING HEIGHTS IF/AS NECESSARY PER ADA AS REQUIRED.

GENERAL NOTES:

1. ALL WORK SHALL BE IN COMPLIANCE WITH THE LOCALLY ADOPTED NEC, LOCAL ORDINANCES AND REGULATIONS.
2. ELECTRICAL SERVICE TO AND FOR MECHANICAL AND OTHER EQUIPMENT IS BASED ON EQUIPMENT DESIGN DATA. THE VALUES MAY DIFFER DEPENDING UPON THE ACTUAL EQUIPMENT TO BE FURNISHED. COORDINATE RATINGS WITH OTHER TRADES PRIOR TO ORDERING ELECTRICAL EQUIPMENT. ANY MODIFICATION TO THE ELECTRICAL INSTALLATION BASED UPON ACTUAL EQUIPMENT SELECTION, SHALL RESULT IN NO ADDITIONAL COST TO THE CONTRACT.
3. THOROUGHLY REVIEW ALL DESIGN DOCUMENTS TO ASSURE THAT ELECTRICAL SERVICE FOR ALL ITEMS AND/OR EQUIPMENT REQUIRING ELECTRICAL SERVICE IS INCLUDED. ANY ITEM AND/OR EQUIPMENT NOT PROVIDED WITH ELECTRICAL SERVICE, REQUIRING ELECTRICAL SERVICE, SHALL BE IMMEDIATELY BROUGHT TO THE ARCHITECT AND ENGINEER'S ATTENTION.
4. MECHANICAL AND ELECTRICAL EQUIPMENT HAS BEEN LOCATED AND ARRANGED TO MINIMIZE THE INTERFERENCES OF EQUIPMENT AND STRUCTURE. THOROUGHLY REVIEW CONTRACT DOCUMENTS TO BECOME FAMILIAR WITH THE WORK TO BE PERFORMED BY ALL TRADES AND THE PHYSICAL CHARACTERISTICS OF THE STRUCTURE IN ORDER TO SCHEDULE AND INSTALL EQUIPMENT AND TO MINIMIZE POSSIBLE INTERFERENCE. FAILURE TO PROPERLY COMMUNICATE AND SCHEDULE WORK WITH OTHER TRADES RESULTING IN ADDITIONAL WORK AND MATERIAL, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. MOTOR STARTERS AND DISCONNECT SWITCHES ARE FURNISHED FOR MECHANICAL EQUIPMENT BY DIVISION 23 AND SHALL BE INSTALLED AND WIRED BY DIVISION 26, UNLESS OTHERWISE NOTED. WHERE EQUIPMENT IS PROVIDED WITHOUT A DISCONNECT SWITCH, AND ONE IS REQUIRED BY CODES, STANDARDS, OR CONTRACT DOCUMENTS, PROVIDE SUITABLE DISCONNECTING MEANS, WHETHER OR NOT INDICATED ON PLANS.
6. SINGLE POLE 120V OR 277V MOTORIZED EQUIPMENT SUCH AS FAN TERMINAL BOXES OR EXHAUST FANS REQUIRING A DISCONNECT MEANS SHALL UTILIZE SNAP SWITCHES LISTED FOR MOTOR LOADS AND SHALL BE MARKED WITH A HP RATING SUITABLE FOR THE LOAD.
7. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN SIX (6) FEET OF EQUIPMENT OR AS REQUIRED BY APPLICABLE CODES AND STANDARDS. LOCATIONS FOR DISCONNECT SWITCHES SHOWN ON PLANS IS FOR GENERAL INFORMATION ONLY.
8. CONTRACTOR IS RESPONSIBLE FOR ENSURING CIRCUITS SUPPLYING EQUIPMENT THAT IS PROVIDED BY OTHER TRADES ARE COMPATIBLE WITH THE ACTUAL EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL ENSURE VOLTAGE, CIRCUIT RATING, CONNECTION TYPE, AND PROTECTIVE DEVICES ARE COORDINATED FOR EACH PIECE OF EQUIPMENT. SHOP DRAWINGS AND PRODUCT DATA FOR MATERIALS PROVIDED UNDER OTHER TRADES, BUT THAT REQUIRE ELECTRICAL SUPPLY, SHALL BEAR THE STAMP OR SIGNATURE OF THE ELECTRICAL CONTRACTOR CONFIRMING A COORDINATION REVIEW PRIOR TO REVIEW BY THE ENGINEER OF RECORD. THE ABSENCE OF SUCH STAMP OR SIGNATURE CONFIRMING COORDINATION REVIEW MAY RESULT IN REJECTION OF APPLICABLE SUBMITTALS OR SHOP DRAWINGS. NO ADDITIONAL COST TO THE CONTRACT SHALL BE AWARDED FOR FAILURE TO COORDINATE THE PROPER CONNECTIONS TO EQUIPMENT
9. VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING WALL SWITCHES, THERMOSTATS, ETC WITH MECHANICAL CONTRACTOR AND MECHANICAL DRAWINGS. COORDINATE WITH DIV 23 DRAWINGS AND PROVIDE A SINGLE GANG BOX AND 1/2" EMT CONDUIT FROM BOX TO ABOVE CEILING FOR THERMOSTAT. MOUNTING HEIGHT PER DIV 23
10. COORDINATE LOCATIONS OF DISCONNECT SWITCHES, CONTROLLERS, AND OTHER DEVICES AND FIXTURES WITH CORRESPONDING EQUIPMENT OR APPLIANCES SUCH THAT REQUIRED CLEARANCES ARE MAINTAINED AFTER FINAL EQUIPMENT AND ACCESSORIES ARE INSTALLED. DISCONNECT SWITCHES, CONTROLLERS, AND SIMILAR APPURTENANCES INSTALLED WITHOUT PROPER CLEARANCES WILL BE RELOCATED TO MEET REQUIREMENTS AT THE EXPENSE OF THE CONTRACTOR, REGARDLESS OF LOCATION INDICATED ON PLANS.
11. INSTALL GROUND-FAULT PROTECTED RECEPTACLE WITHIN 25' OF HVAC EQUIPMENT. COORDINATE WITH OTHER TRADES SO THAT FINAL LOCATION OF EQUIPMENT, ESPECIALLY WHERE ADJUSTED DURING CONSTRUCTION, DOES NOT RESULT IN DISTANCES GREATER THAN 25'.
12. REFER TO MECHANICAL EQUIPMENT SCHEDULE, FOR CONDUIT/CONDUCTORS, DISCONNECTS, MISCELLANEOUS EQUIPMENT REQUIRED FOR ALL MECHANICAL EQUIPMENT, IF PROVIDED.
13. EQUIPMENT INSTALLED WITHIN CONCEALED SPACES SHALL HAVE REASONABLE AND CODE COMPLIANT ACCESS PANELS PROVIDED NEARBY FOR INSPECTION, TESTING AND SERVICE CONSIDERATIONS.
14. VERIFY CEILING TYPES AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING LIGHT FIXTURES. PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT SURFACE IN FINISHED SPACES.
15. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
16. RECEPTACLES MOUNTED AT COUNTER HEIGHT SHALL BE LOCATED ABOVE BACK SPLASH WHERE POSSIBLE.
17. COORDINATE THE HEIGHTS OF WALL MOUNTED LIGHTING FIXTURES TO CLEAR MIRRORS, CABINETS AND BUILT-INS.
18. REFER TO ARCHITECTURAL DRAWINGS FOR RATED FIRE- AND SMOKE- WALLS, ASSEMBLIES, AND PARTITIONS. PROVIDE CODE COMPLIANT DEVICE BOXES FOR UL LISTED FOR THE APPLICATION. INSTALL FIRE RATED UL LISTED SEALS OR SEALS SYSTEMS FOR ALL RATED FIRE WALL/CEILING PENETRATIONS. INSTALLATION SHALL MEET APPLICABLE LOCAL ADOPTED CODES.
19. ALL ELECTRIC WATER COOLER (EWC) RECEPTACLES AND BOTTLE FILL STATIONS SHALL BE INSTALLED SUCH THAT THEY ARE CONCEALED BEHIND THE COOLER'S ENCLOSURE AND GFCI PROTECTED IN ACCORDANCE WITH NEC ART. 422 USING A GFCI CIRCUIT BREAKER.
20. FOR UNDERGROUND CONDUITS LARGER THAN 1-1/2", PROVIDE GALVANIZED RIGID METAL SWEEPS AND BENDS.
21. EXPOSED CONDUIT BUNDLES (4 CONDUITS OR MORE) THROUGH GROUND LEVEL FLOOR, FEEDING PANELS, ETC SHALL HAVE A 3" HIGH CONCRETE "HOUSEKEEPING" PAD INSTALLED WITH 3" COVER AROUND OUTSIDE OF CONDUITS AND CONDUIT SYSTEMS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE ROUTED TO SUIT FIELD CONDITIONS AND EQUIPMENT LOCATIONS.
22. ALL LIGHTING FIXTURES AND GENERAL PURPOSE RECEPTACLES IN MECHANICAL, ELECTRICAL AND EQUIPMENT ROOMS SHALL BE FIELD LOCATED TO SUIT EQUIPMENT CONDITIONS AND EQUIPMENT LOCATIONS.
23. CABLES, CONDUCTORS (WHERE NOT IN RACEWAY), ENCLOSURES, AND DEVICES INSTALLED WITHIN AIR-HANDLING SPACES (PLENUMS) SHALL BE LISTED FOR SUCH INSTALLATION. NON-METALLIC RACEWAYS MAY NOT BE INSTALLED WITHIN AIR-HANDLING PLENUMS UNDER ANY CIRCUMSTANCES.
24. PROVIDE GFCI CIRCUIT BREAKERS TO PROTECT PERMANENTLY INSTALLED APPLIANCES THAT REQUIRE GROUND FAULT CIRCUIT PROTECTION FOR PERSONNEL IN ACCORDANCE WITH NEC ARTICLES 210 AND 422.
25. PROVIDE AFCI CIRCUIT BREAKERS TO PROTECT DEVICE CIRCUITS IN ACCORDANCE WITH NEC ARTICLE 210, WHETHER OR NOT INDICATED ON PLANS.
26. PROVIDE TAMPER-RESISTANT RECEPTACLES IN APPLICATIONS DESCRIBED IN NEC ARTICLE 406, WHETHER OR NOT INDICATED ON PLANS. DISCREPANCIES, WHETHER PERCEIVED OR ACTUAL, BETWEEN DRAWINGS, SPECIFICATIONS, AND/OR SUBMITTALS AND SHOP DRAWINGS, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO PURCHASE OF EQUIPMENT. FAILURE TO NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PURCHASE OF MATERIALS OR PERFORMANCE OF WORK SHALL NOT RESULT IN ADDITIONAL COST TO THE CONTRACT.
27. MULTIPLE, REPEATED REVIEWS OF SUBMITTALS/SHOP DRAWINGS WILL INCUR ADDITIONAL SERVICES AT THE CURRENT BILLING RATE FOR THE TIME REQUIRED TO PERFORM SUBSEQUENT REVIEWS AND TO COORDINATE THE REQUIREMENTS WITH CONTRACTORS.
28. CURRENT MARKET CONDITIONS HAVE LED TO UNUSUALLY LONG EQUIPMENT LEAD TIMES. IN SOME CASES, WITH PERMISSION FROM THE OWNER AND ARCHITECT, TEMPORARY EQUIPMENT MAY BE INSTALLED IN PLACE OF PERMANENT EQUIPMENT, WHILE WAITING ON FINAL DELIVERY OF EQUIPMENT. IN SUCH CASES, THE TEMPORARY EQUIPMENT MUST MEET APPLICABLE CONTINUOUS, SHORT-CIRCUIT, AND VOLTAGE RATINGS. THE USE OF TEMPORARY EQUIPMENT DOES NOT ALLEVIATE THE RESPONSIBILITY OF THE CONTRACTOR TO MEET APPLICABLE CODES AND STANDARDS.
29. FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT IN ACCORDANCE WITH NEC 110.24.
30. PROVIDE ARC-FLASH WARNING LABELS THAT COMPLY WITH NEC 110.16(A) ON ELECTRICAL EQUIPMENT.
31. PANELBOARDS SUPPLIED BY A FEEDER SHALL BE MARKED IN THE FIELD TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
32. OUTLET BOXES INSTALLED IN WET LOCATIONS WITH WEATHERPROOF HOODS SHALL BE LISTED AND IDENTIFIED AS "EXTRA DUTY".

FLOOR BOX SCHEDULE

TAG	DESCRIPTION	BOX MAKE/MODEL BASIS OF DESIGN	COVER PLATE	DEVICES & CONDUITS	NOTES
FB1	6-GANG IN-CONCRETE FLOOR BOX	LEGRAND RFBA6	RECTANGULAR, FLUSH, FINISH TO BE CONFIRMED WITH ARCH	DUPLEX RECEPTACLE; COMMUNICATIONS PLATES AND GANG ADAPTERS AS REQUIRED FOR OWNER PROVIDED DEVICES - COORDINATE REQUIREMENT WITH OWNER. 1" CONDUIT FROM DATA COMPARTMENT; 1-1/4" CONDUIT FROM A/V COMPARTMENT, U.O.N.	WHERE INSTALLED IN SPORTS FLOORING, PROVIDE RISER/EXTENSION RING AS REQUIRED TO INTERFACE WITH COURT FLOOR. COORDINATE FINAL ELEVATION CAREFULLY WITH OTHER TRADES.
FB2	4-GANG IN-CONCRETE FLOOR BOX	LEGRAND RFBA4	RECTANGULAR, FLUSH, FINISH TO BE CONFIRMED WITH ARCH	DUPLEX RECEPTACLE; COMMUNICATIONS PLATES AND GANG ADAPTERS AS REQUIRED FOR OWNER PROVIDED DEVICES - COORDINATE REQUIREMENT WITH OWNER. 1" CONDUIT FROM DATA COMPARTMENT; 1-1/4" CONDUIT FROM A/V COMPARTMENT, U.O.N.	WHERE INSTALLED IN SPORTS FLOORING, PROVIDE RISER/EXTENSION RING AS REQUIRED TO INTERFACE WITH COURT FLOOR. COORDINATE FINAL ELEVATION CAREFULLY WITH OTHER TRADES.
FB3	2-GANG IN-CONCRETE FLOOR BOX	LEGRAND RFBA2	RECTANGULAR, FLUSH, FINISH TO BE CONFIRMED WITH ARCH	DUPLEX RECEPTACLE; SPARE 1" CONDUIT FROM DATA COMPARTMENT, U.O.N.	EQUIP WITH SERVICE FITTINGS WHERE WHIP CONNECTION IS REQUIRED.

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ISSUE	DATE
DCM FINAL SUBMITTAL	10.18.24

DRAWN BY: REA
CHECKED BY: JTD

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

11/14/2024

LEGEND

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

ELECTRICAL DEMOLITION NOTES:

A. ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE, STATE CODE, LOCAL BUILDING CODE AND AS REQUIRED AND /OR AS SPECIFIED HEREIN OR BY THE AUTHORITY HAVING JURISDICTION, WHICHEVER IS MORE STRICT.

B. THE ELECTRICAL CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM THE AUTHORITIES HAVING JURISDICTION AND TURN OVER TO THE GENERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS OF THE PROJECT SPECIFICATIONS, ALL CONTRACT DOCUMENTS, AND ANY BASE BUILDING SPECIFICATIONS AND BUILDING CRITERIA INCLUDED IN THIS PROJECT.

C. CAREFULLY SURVEY EXISTING CONDITIONS PRIOR TO PERFORMING WORK, COORDINATE OUTAGES WITH GENERAL CONTRACTOR, OWNER, AND OTHER TRADES PRIOR TO DISCONNECTING OR RECONNECTING SERVICE. DEVELOP OUTAGE AND RECONNECT PLANS IN CLOSE COORDINATION WITH UTILITY AND GENERAL CONTRACTOR TO ENSURE WORK INTERRUPTIONS ARE MINIMIZED.

D. DEVELOP AND FOLLOW SAFE WORK PLANS IN ACCORDANCE WITH OSHA AND NFPA 70E PRIOR TO OPENING OR WORKING ON ENERGIZED EQUIPMENT OR CONDUCTORS.

E. DRAWINGS ARE DIAGRAMMATIC IN NATURE. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS, AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK..

F. THE DRAWINGS INDICATE THE LOCATION, TYPE AND SIZES OF VARIOUS UTILITIES WITHIN THE SITE WHERE KNOWN. ANY RELOCATION OR REMODELING REQUIRED MUST BE APPROVED BY THE ARCHITECT BEFORE PROCEEDING. INVESTIGATE ALL UTILITIES SUCH AS ELECTRIC AND TELEPHONE AND MAKE ARRANGEMENTS WITH THE PROPER AUTHORITY TO PAY FOR ANY CHARGES ASSOCIATED WITH CONNECTING THOSE UTILITIES. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS ETC.

G. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE INTERCONNECTION REQUIREMENTS OF EACH ELECTRICAL SYSTEM BETWEEN THIS SPACE AND ANY OTHER ATTACHED SPACES. THESE REQUIREMENTS ARE TO BE INCLUDED IN BID.

H. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND TOOLS TO PERFORM THE ELECTRICAL WORK AS INDICATED, AND /OR REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

I. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE, WIRING, POWER, AND LIGHTS AS REQUIRED. TEMPORARY SERVICE SHALL MEET ALL NEC AND OSHA REQUIREMENTS CONCERNING GROUND FAULT PROTECTION. UPON COMPLETION OF PROJECT, ELECTRICAL CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, DEVICES, ETC., ASSOCIATED WITH TEMPORARY SERVICE AND WIRING.

J. GOOD WORKMANSHIP AND APPEARANCE ARE CONSIDERED EQUAL TO PROPER OPERATION.

K. THE ELECTRICAL CONTRACTOR SHALL MAKE PROVISIONS FOR SAFE DELIVERY AND SECURE STORAGE OF ALL MATERIALS.

L. WHERE CIRCUITS ARE SHARED BETWEEN EXISTING AREAS TO REMAIN AND AREAS TO BE DEMOLISHED, REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION OR OUTLET BOX IN AREA TO REMAIN.

M. EXISTING CONDUCTORS MAY NOT BE USED TO SUPPLY NEW LOADS. EXISTING CONDUITS THAT MEET THE REQUIREMENTS OF BUILDING CODES, THE NEC, AND PROJECT DOCUMENTS, MAY BE REUSED AND EXTENDED OR REROUTED AS NECESSARY TO SERVE NEW LOADS.

ELECTRICAL DEMOLITION KEYED NOTES:

1. PARKING LOT: REMOVE EXISTING LIGHT POLES AND FLAG POLE LIGHTING. REMOVE CIRCUIT CONDUCTORS BACK TO SOURCE PANEL.
2. EXISTING MONUMENT SIGN. REMOVE LIGHT FIXTURES AND REMOVE LIGHTING CIRCUIT BACK TO SOURCE PANEL, AS APPLICABLE.

PLAN NORTH

TRUE NORTH

0 10' 20' 40' 60'
1" = 20'

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11/14/2024
JOHN DANIELSON JR.
ENGINEER

ELECTRICAL SITE PLAN DEMO

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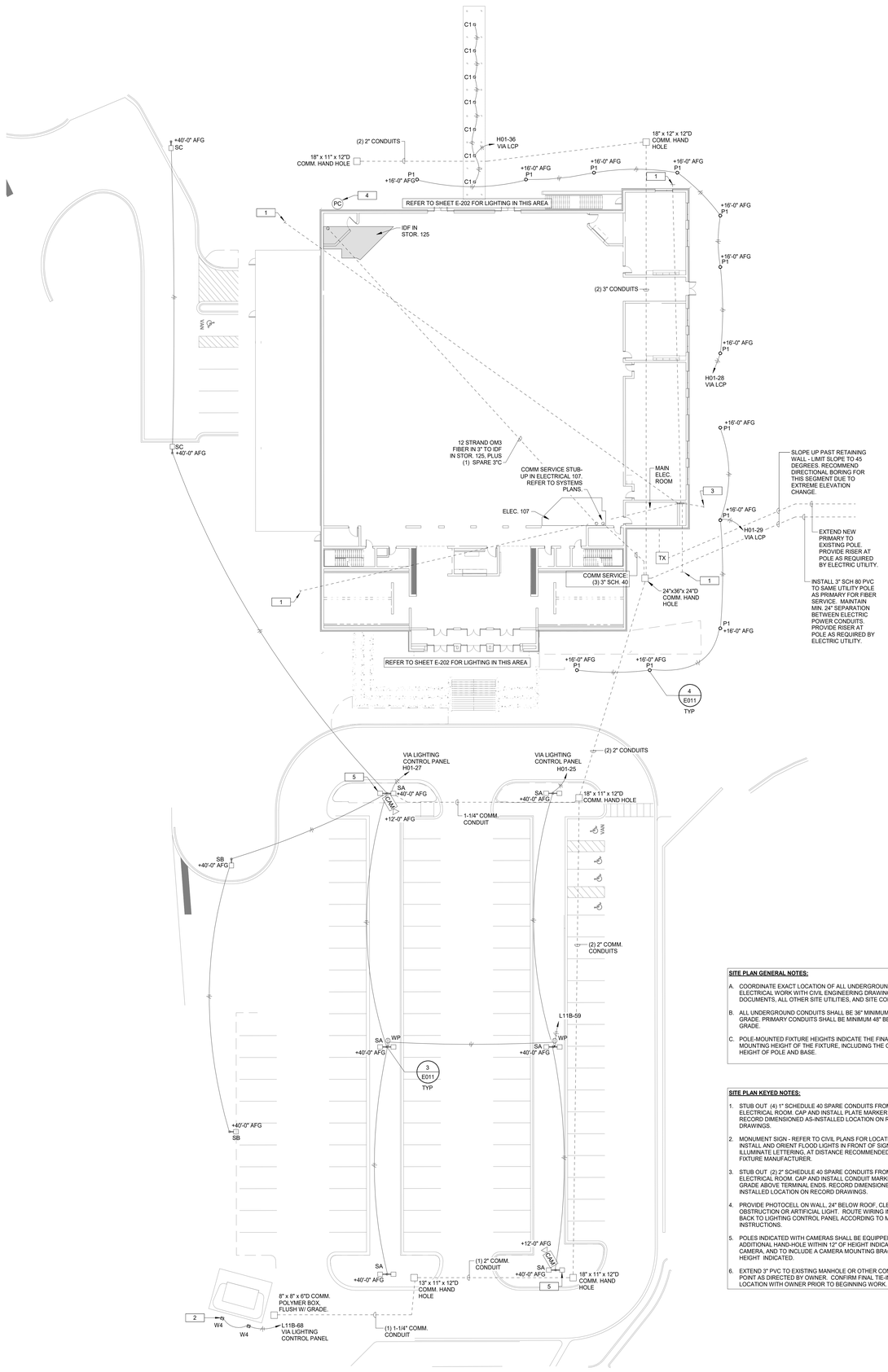


1 ELECTRICAL SITE PLAN
1" = 20'-0"

SITE PLAN GENERAL NOTES:

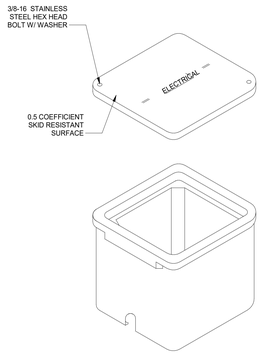
A. COORDINATE EXACT LOCATION OF ALL UNDERGROUND ELECTRICAL WORK WITH CIVIL ENGINEERING DRAWINGS AND DOCUMENTS, ALL OTHER SITE UTILITIES, AND SITE CONTRACTOR.

B. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUITS SHALL BE MINIMUM 48" BELOW GRADE.

C. POLE-MOUNTED FIXTURE HEIGHTS INDICATE THE FINAL MOUNTING HEIGHT OF THE FIXTURE, INCLUDING THE COMBINED HEIGHT OF POLE AND BASE.

SITE PLAN KEYED NOTES:

1. STUB OUT (4) 1" SCHEDULE 40 SPARE CONDUITS FROM MAIN ELECTRICAL ROOM. CAP AND INSTALL PLATE MARKER AT ENDS. RECORD DIMENSIONED AS-INSTALLED LOCATION ON RECORD DRAWINGS.
2. MONUMENT SIGN - REFER TO CIVIL PLANS FOR LOCATION. INSTALL AND ORIENT FLOOD LIGHTS IN FRONT OF SIGN TO ILLUMINATE LETTERING, AT DISTANCE RECOMMENDED BY LIGHT FIXTURE MANUFACTURER.
3. STUB OUT (2) 2" SCHEDULE 40 SPARE CONDUITS FROM MAIN ELECTRICAL ROOM. CAP AND INSTALL CONDUIT MARKER AT GRADE ABOVE TERMINAL ENDS. RECORD DIMENSIONED AS-INSTALLED LOCATION ON RECORD DRAWINGS.
4. PROVIDE PHOTOCELL ON WALL, 24" BELOW ROOF, CLEAR OF ANY OBSTRUCTION OR ARTIFICIAL LIGHT. ROUTE WIRING IN CONDUIT BACK TO LIGHTING CONTROL PANEL ACCORDING TO MFR INSTRUCTIONS.
5. POLES INDICATED WITH CAMERAS SHALL BE EQUIPPED WITH ADDITIONAL HAND-HOLE WITHIN 12' OF HEIGHT INDICATED FOR CAMERA, AND TO INCLUDE A CAMERA MOUNTING BRACKET AT HEIGHT INDICATED.
6. EXTEND 5" PVC TO EXISTING MANHOLE OR OTHER CONNECTION POINT AS DIRECTED BY OWNER. CONFIRM FINAL TIE-IN LOCATION WITH OWNER PRIOR TO BEGINNING WORK.

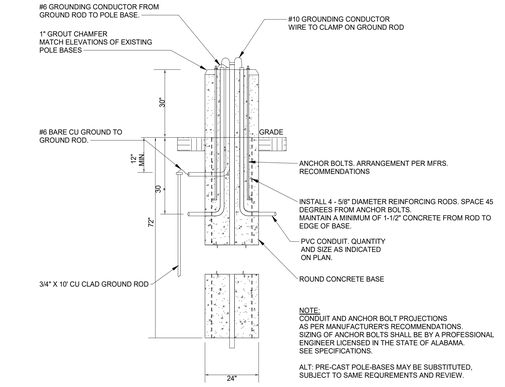


BASIS OF DESIGN IS 24" X 24" POLYMER CONCRETE STACKABLE ASSEMBLY. OTHER SIZES <36" SIMILAR. STACK MULTIPLE BOXES AS REQUIRED TO ACCOMMODATE SIDE CONDUIT ENTRY. ADJUST BOX AS NECESSARY TO MEET NEC BOX FILL REQUIREMENTS.

INSTALL WITH 3" MIN COMPACTED, CRUSHED 5/8" GRAVEL FOR DRAINAGE.

USE CONDUCTOR CONNECTION METHODS AND MATERIALS APPROVED FOR BELOW GRADE OR DIRECT BURIAL APPLICATIONS.

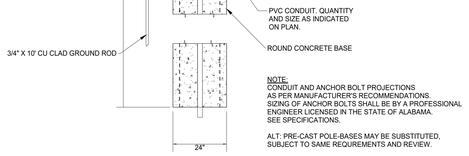
2 TYPICAL HAND HOLE DETAIL
N.T.S.



NOTE:
CONDUIT AND ANCHOR BOLT PROJECTIONS AS PER MANUFACTURER'S RECOMMENDATIONS. SIZING OF ANCHOR BOLTS SHALL BE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ALABAMA. SEE SPECIFICATIONS.

ALT: PRE-CAST POLE-BASES MAY BE SUBSTITUTED, SUBJECT TO SAME REQUIREMENTS AND REVIEW.

3 PARKING LOT LIGHT POLE BASE DETAIL
N.T.S.



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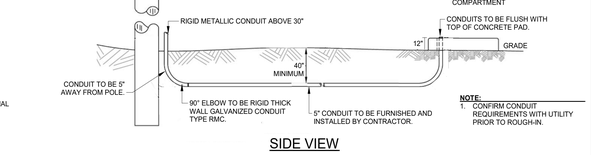
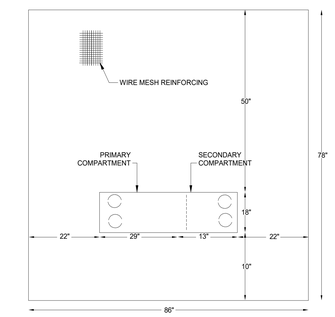
ALT: PRE-CAST POLE-BASES MAY BE SUBSTITUTED, SUBJECT TO SAME REQUIREMENTS AND REVIEW.

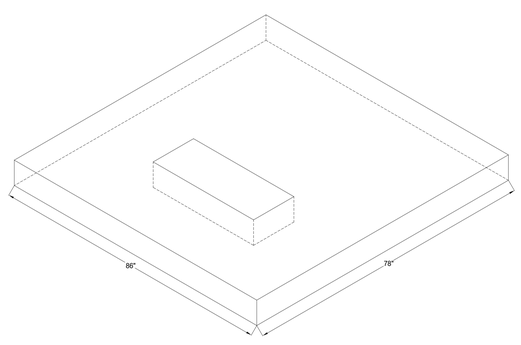
4 PEDESTRIAN LIGHT POLE BASE DETAIL
N.T.S.



NOTE:
1. CONFIRM CONDUIT REQUIREMENTS WITH UTILITY PRIOR TO ROUGH-IN.

5 PRIMARY RISER DIAGRAM
N.T.S.





ISOMETRIC VIEW

NOTES:
1. DIMENSIONS AND LAYOUT ARE NOTIONAL AND MAY NOT ALIGN WITH THE ACTUAL TRANSFORMER TO BE INSTALLED. OBTAIN OR CONSTRUCT TRANSFORMER PAD WITH DIMENSIONS, OPENINGS, AND MATERIALS THAT COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND UTILITY COMPANY STANDARDS. NOTIFY ENGINEER OF CONFLICT PRIOR TO PURCHASE OR INSTALLATION OF EQUIPMENT.
2. THE PRIMARY AND SECONDARY COMPARTMENT OPENING IN THE CONCRETE PAD MUST FACE AWAY FROM THE BUILDING SO THAT UTILITY PERSONNEL CAN OPEN THE DOORS AND USE AN 8'-0" LONG HOT STICK TO OPERATE THE TRANSFORMER.
3. 4' HIGH BUMPER POLES ARE REQUIRED IF PAD IS TO BE LOCATED IN AN AREA ACCESSIBLE TO VEHICLES.

6 TRANSFORMER PAD DETAIL
N.T.S.

PLAN NORTH

TRUE NORTH

0 10' 20' 40' 60'
1" = 20'

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ISSUE	DATE
DCM FINAL SUBMITTAL	10.18.24

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CHECKED BY: JTD

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

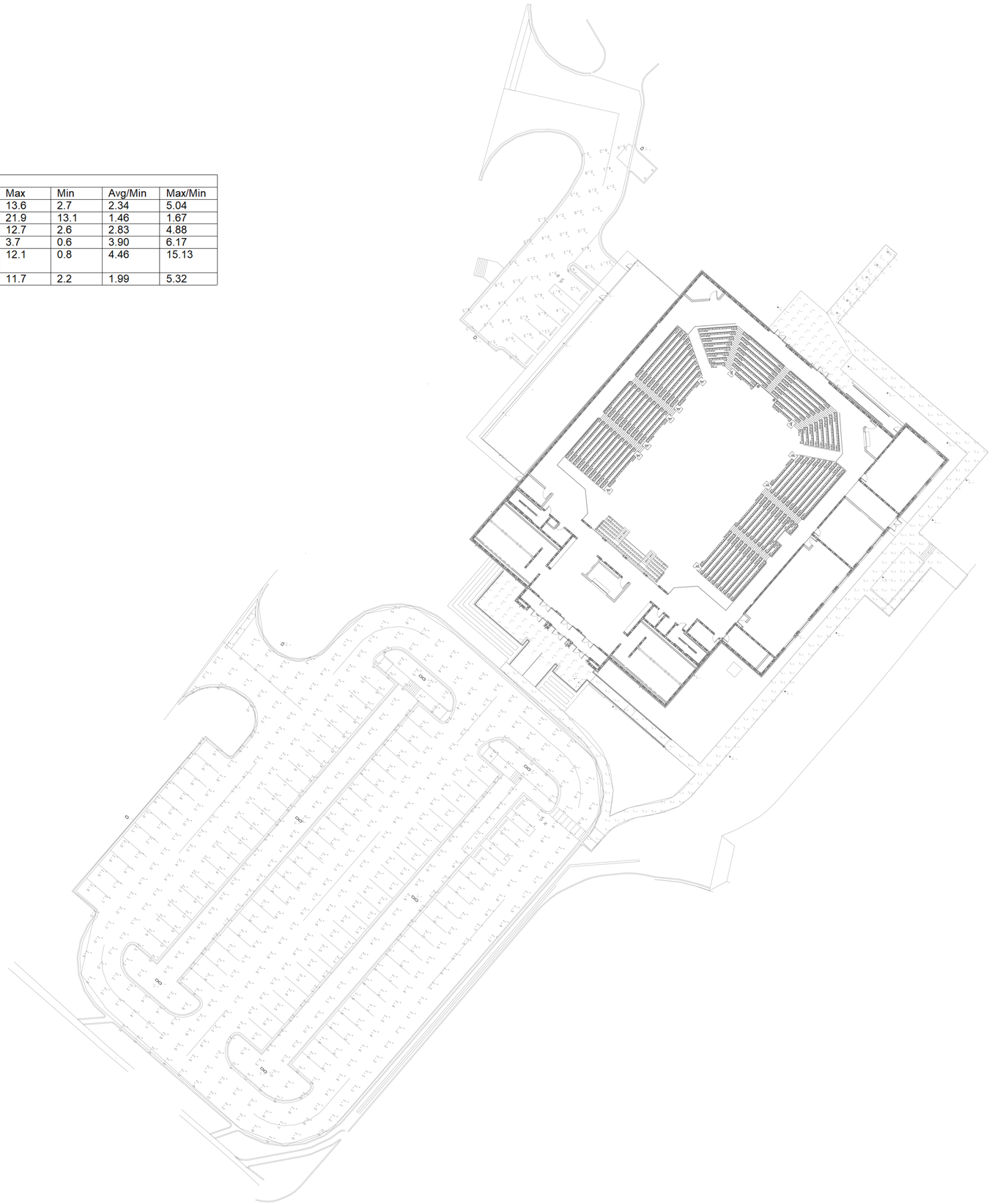
11/14/2024
JOHN T. DANIELSON JR.

ELECTRICAL SITE PLAN

E011

11/14/2024 4:18:35 PM TEMPLATE VERSION: 2022.1

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Back Exit	Fc	6.31	13.6	2.7	2.34	5.04
Canopy	Fc	19.10	21.9	13.1	1.46	1.67
Front Entry	Fc	7.35	12.7	2.6	2.83	4.88
Large Parking	Fc	2.34	3.7	0.6	3.90	6.17
Pedestrian Walkway	Fc	3.57	12.1	0.8	4.46	15.13
Small Parking	Fc	4.38	11.7	2.2	1.99	5.32



1 SITE PHOTOMETRIC PLAN
3/64" = 1'-0"

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201 45th STREET NE,
FORT PAYNE, AL 35967

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GMC AHUN230009

ELECTRICAL SITE PHOTOMETRIC PLAN

E012

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RECEPTACLE CONTROL AND ENERGY MONITORING:

EXCEPTIONS HAVE BEEN TAKEN TO ASHRAE 90.1 SECTION 8.4.2 AND 8.4.3 REQUIRING CONTROLLED RECEPTACLES AND ENERGY MONITORING, RESPECTIVELY, AS PERMITTED BY THE DIVISION OF CONSTRUCTION MANAGEMENT.

POWER GENERAL NOTES:

A. COORDINATE LOCATION AND HEIGHT OF TV'S OR DIGITAL DISPLAYS, CLOCKS, POWERED SPEAKERS, AND OTHER WALL-MOUNTED APPURTENANCES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

B. BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. UP TO THREE BRANCH CIRCUITS RATED NOT MORE THAN 30A, AND OF DIFFERENT PHASES, MAY BE INSTALLED IN A SINGLE CONDUIT, BUT CONDUCTOR AMPACITIES MUST BE DERATED IN ACCORDANCE WITH NEC 315.15 (B) (3).

C. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROVISIONS, SUCH AS CONDUIT AND CONDUCTORS, TO MAKE FINAL CONNECTIONS TO HVAC AND PLUMBING EQUIPMENT FOR ENTIRE PROJECT. COORDINATE ALL STUB-UPS AND PENETRATIONS WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. ENTIRE BRANCH CIRCUIT SHALL UTILIZE SAME CONDUCTOR SIZE AND QUANTITY BETWEEN OUTLETS AS HOMERUN UNLESS OTHERWISE NOTED.

E. OUTLET BOXES INSTALLED IN WET LOCATIONS WITH WEATHERPROOF HOODS SHALL BE LISTED AND IDENTIFIED AS "EXTRA DUTY".

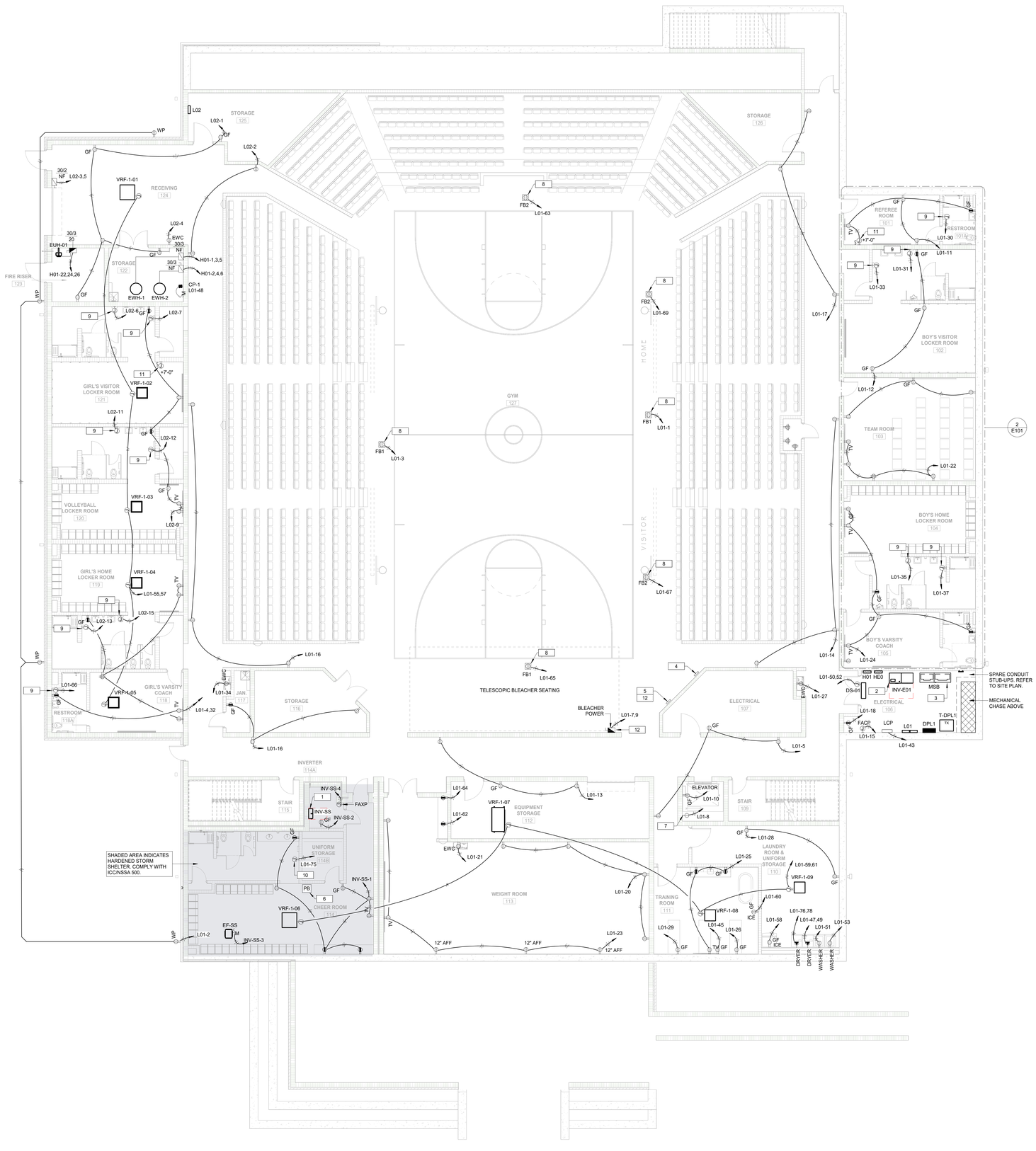
F. RECEPTACLES IN PUBLIC SPACES SHALL BE TAMPER RESISTANT.

G. INSTALL DISCONNECTS, MOTOR STARTERS, VFD'S, AND SIMILAR EQUIPMENT IN COORDINATION WITH OTHER TRADES TO ENSURE NEC REQUIRED DEDICATED SPACE AND WORKING CLEARANCES ARE MAINTAINED.

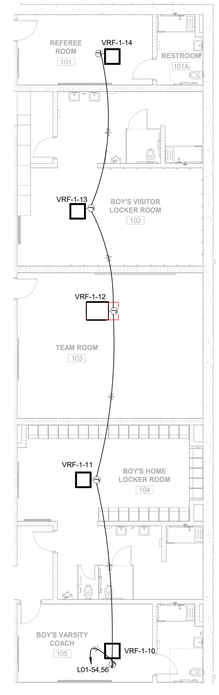
H. INSTALL DRY-TYPE TRANSFORMERS WITH ADEQUATE VENTILATION SPACE AT SIDES AND REAR. COMPLY WITH MANUFACTURER'S INSTRUCTIONS.

POWER KEYED NOTES:

1. EMERGENCY INVERTER FOR BATTERY BACKUP OF STORM SHELTER ELECTRICAL SYSTEM: 277V IN, 120V OUT, (4) 20A/1P OUTPUT CIRCUIT BREAKERS, 1.5 KVA, 2 HR RUNTIME; SIMILAR TO NOVA UACP. CIRCUITS INDICATED AS "INV-SS-#" WITHIN STORM SHELTER REFER TO INVERTER OUTPUT CIRCUIT BREAKERS.
2. EMERGENCY LIGHTING INVERTER: 480V IN, 277/480V OUT, TWO 100A/3P OUTPUT CIRCUIT BREAKERS, 10.0 KVA, 90 MIN RUNTIME; SIMILAR TO NOVA 10KW.
3. INSTALL 4" HOUSEKEEPING PAD FOR MAIN SWITCHBOARD, EXTEND AT LEAST 2" PAST SIDES, FRONT FLUSH WITH FRONT OF SWBD.
4. CONTROL TOUCHPAD FOR GOAL LOWERING SYSTEM. INSTALL 1" CONDUIT BACK TO GOAL LOWERING SYSTEM CONTROL PANEL.
5. CONTROL STATION FOR RETRACTABLE BLEACHERS. BACKBOX AT 46" AND 3/4" CONDUIT TO BLEACHER POWER UNIT.
6. STORM SHELTER EXHAUST FAN CONTROLLER. PROVIDE WIRING IN CONDUIT BETWEEN CONTROLLER AND LOUVERS. COORDINATE WITH DIV. 23.
7. SIMPLEX 20A RECEPTACLE FOR ELEVATOR SUMP PUMP. ROUTE BRANCH CIRCUITS TO ELEVATOR SUMP THROUGH CONTROL PANEL JUNCTION BOX. COORDINATE LOCATION WITH PLUMBING DRAWINGS.
8. FLOOR BOX. REFER TO TABLE ON SHEET E000.
9. HAND DRYER. COORDINATE HEIGHT IN FIELD.
10. HAND DRYER. COORDINATE HEIGHT IN FIELD. HAND DRYER IN STORM SHELTER NOT TO BE CIRCUITED TO SS INVERTER.
11. POWER SUPPLY FOR REMOTE GAME CLOCK SYSTEM - OUTLET BOX FLUSH MOUNTED IN WALL WITH POWER SWITCH MOUNTED BELOW AT 48" AFF. ROUTE BRANCH CIRCUIT THROUGH SWITCH BOX TO INTERRUPT SUPPLY TO GAME CLOCK SYSTEM.
12. COORDINATE RATING, LOCATION, AND TERMINATION REQUIREMENTS WITH RETRACTABLE BLEACHER SHOP DRAWINGS. PROVIDE WHIP OR FLEXIBLE CORD CONNECTION AS REQUIRED BY MANUFACTURER. PROVIDE WIRING AND RACEWAY FOR REMOTE CONTROLLER, STOP SENSORS, SAFETY SWITCHES AS REQUIRED.



1 LOWER LEVEL POWER PLAN
1/8" = 1'-0"



2 ENLARGED EQUIPMENT POWER PLAN
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH
0 4" 8" 16" 24"
1/8" = 1'-0"

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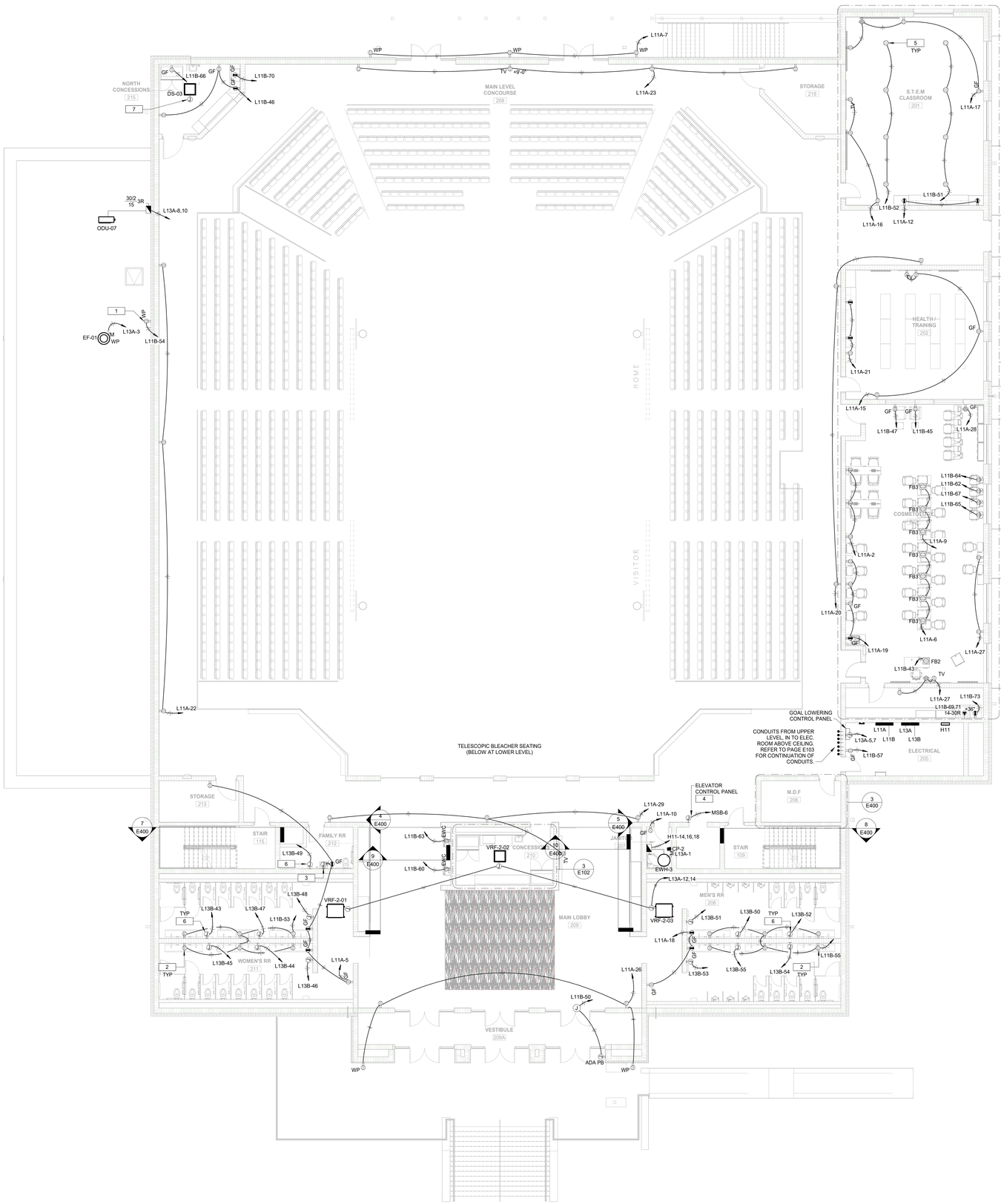
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

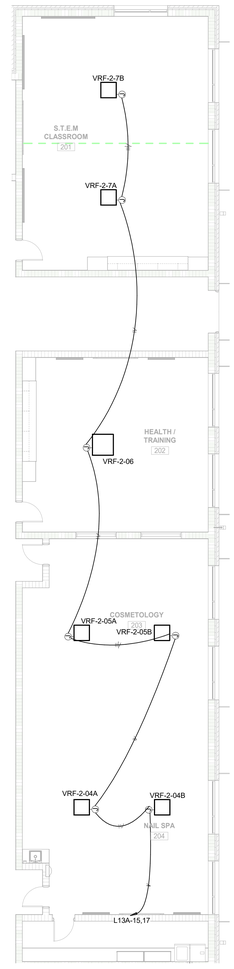
ALABAMA
11/14/2024
ENGINEER
JOHN DANIEL CAWOOD, JR.

LOWER LEVEL - POWER PLAN

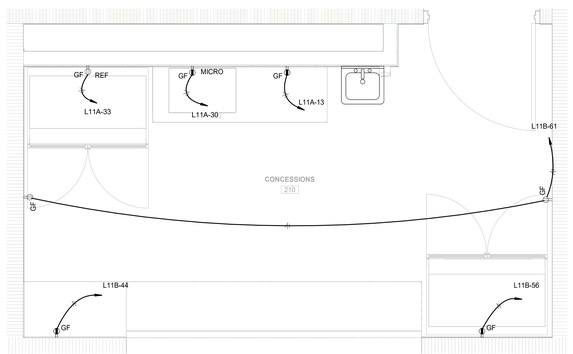
E101



1 MAIN LEVEL POWER PLAN
1/8" = 1'-0"



2 ENLARGED EQUIPMENT POWER PLAN
1/8" = 1'-0"



3 ENLARGED CONCESSIONS POWER PLAN
1/2" = 1'-0"

PLAN NORTH

TRUE NORTH

0 1' 2' 4' 6'
1/2" = 1'-0"

0 4' 8' 16' 24'
1/8" = 1'-0"

RECEPTACLE CONTROL AND ENERGY MONITORING:

EXCEPTIONS HAVE BEEN TAKEN TO ASHRAE 90.1 SECTION 8.4.2 AND 8.4.3 REQUIRING CONTROLLED RECEPTACLES AND ENERGY MONITORING, RESPECTIVELY, AS PERMITTED BY THE DIVISION OF CONSTRUCTION MANAGEMENT.

POWER GENERAL NOTES:

A. COORDINATE LOCATION AND HEIGHT OF TV'S OR DIGITAL DISPLAYS, CLOCKS, POWERED SPEAKERS, AND OTHER WALL-MOUNTED APPURTENANCES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

B. BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. UP TO THREE BRANCH CIRCUITS RATED NOT MORE THAN 30A, AND OF DIFFERENT PHASES, MAY BE INSTALLED IN A SINGLE CONDUIT, BUT CONDUCTOR AMPACITIES MUST BE DERATED IN ACCORDANCE WITH NEC 315.15 (B) (3).

C. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROVISIONS, SUCH AS CONDUIT AND CONDUCTORS, TO MAKE FINAL CONNECTIONS TO HVAC AND PLUMBING EQUIPMENT FOR ENTIRE PROJECT. COORDINATE ALL STUB-UPS AND PENETRATIONS WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. ENTIRE BRANCH CIRCUIT SHALL UTILIZE SAME CONDUCTOR SIZE AND QUANTITY BETWEEN OUTLETS AS HOMERUN UNLESS OTHERWISE NOTED.

E. OUTLET BOXES INSTALLED IN WET LOCATIONS WITH WEATHERPROOF HOODS SHALL BE LISTED AND IDENTIFIED AS "EXTRA DUTY".

POWER KEYED NOTES:

1. PROVIDE A 120V, 20A GFCI TYPE SERVICE RECEPTACLE AT AN ACCESSIBLE LOCATION WITHIN 25FT. OF ANY MECHANICAL EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS IN COMPLIANCE WITH NEC 210.63.
2. INSTALL RECEPTACLE UNDER SINK FOR AUTOMATIC CONTROLS. CONFIRM INSTALLATION HEIGHT AND CONNECTION TYPE WITH DIVISION 22 AND FIXTURES TO BE INSTALLED.
3. INSTALL JUNCTION BOX UNDER SINK FOR AUTOMATIC CONTROLS. CONFIRM INSTALLATION HEIGHT AND CONNECTION TYPE WITH DIVISION 22 AND FIXTURES TO BE INSTALLED.
4. COORDINATE CONNECTION LOCATION AND TERMINATION REQUIREMENTS WITH FINAL ELEVATOR SHOP DRAWINGS.
5. PROVIDE 20A, 25' #12/3 RETRACTABLE CORD REEL WITH NEMA 5-20R, INSTALLED IN PLENUM RATED ENCLOSURE. REEL SIMILAR TO REELCRAFT L-4525-123-3A, ENCLOSURE SIMILAR TO HUBBELL HBLIPRBOX.
6. HAND DRYER. COORDINATE HEIGHT IN FIELD.
7. POWER SHALL BE EXTENDED FROM OUTDOOR UNIT ODU-07 TO CORRESPONDING INDOOR UNIT DS-03 WITH (2) #12, #12 GROUND IN 3/4" CONDUIT. PROVIDE ADDITIONAL 3/4" CONDUIT BETWEEN ODU-07 AND DS-03 WITH CONTROL WIRING AS DIRECTED BY THE EQUIPMENT MANUFACTURER.

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201 45th STREET NE,
FORT PAYNE, AL 35967

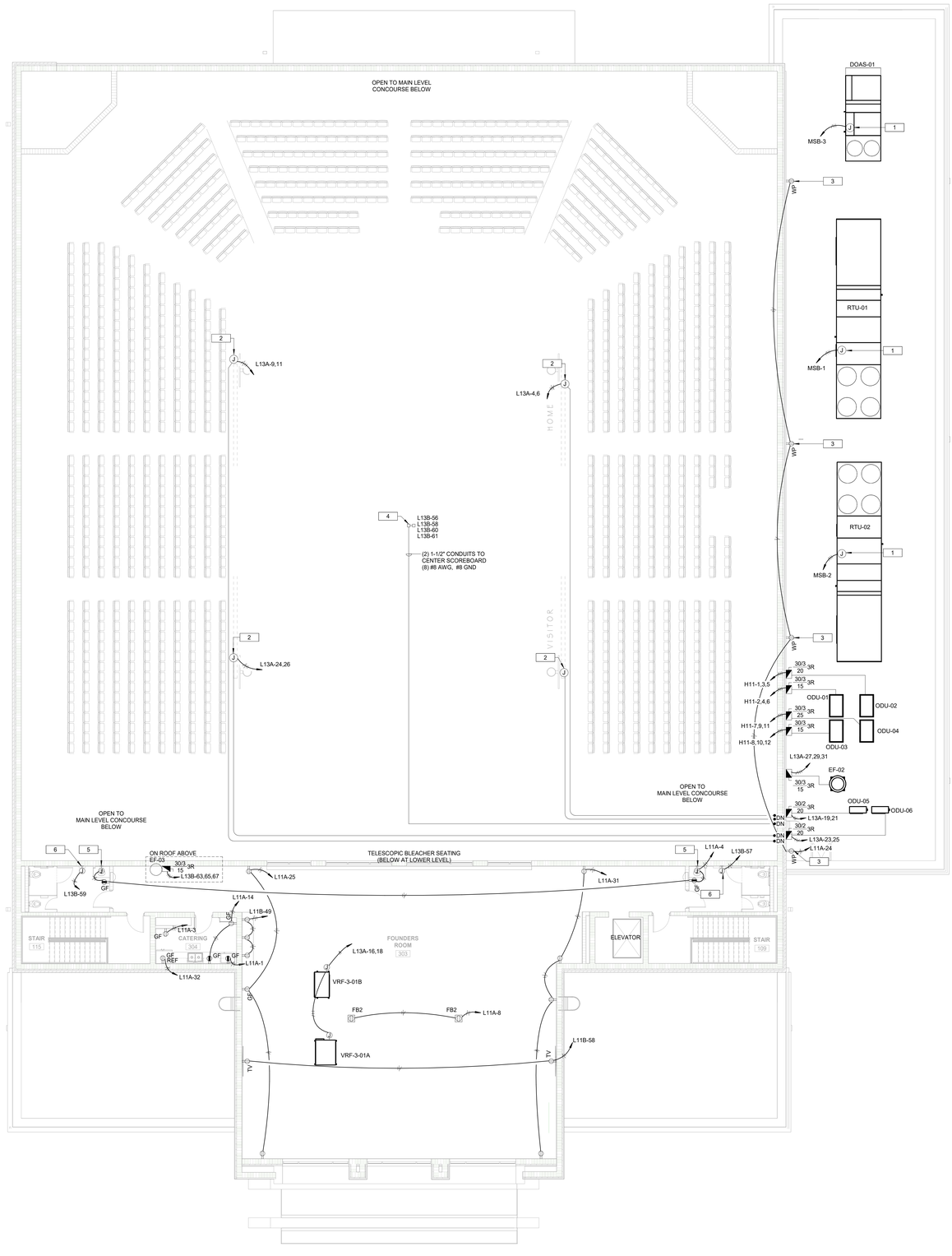
DCM # 20240548
GMC AHUN230009

11/14/2024
ENGINEER
ALABAMA
COMMISSION NO.

MAIN LEVEL - POWER PLAN

E102

11/14/2024 4:19:42 PM TEMPLATE VERSION: 2022.1



1 UPPER LEVEL POWER PLAN
1/8" = 1'-0"

RECEPTACLE CONTROL AND ENERGY MONITORING:

EXCEPTIONS HAVE BEEN TAKEN TO ASHRAE 90.1 SECTION 8.4.2 AND 8.4.3 REQUIRING CONTROLLED RECEPTACLES AND ENERGY MONITORING, RESPECTIVELY, AS PERMITTED BY THE DIVISION OF CONSTRUCTION MANAGEMENT.

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C. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROVISIONS, SUCH AS CONDUIT AND CONDUCTORS, TO MAKE FINAL CONNECTIONS TO HVAC AND PLUMBING EQUIPMENT FOR ENTIRE PROJECT. COORDINATE ALL STUB-UPS AND PENETRATIONS WITH OTHER TRADES PRIOR TO ROUGH-IN.

D. ENTIRE BRANCH CIRCUIT SHALL UTILIZE SAME CONDUCTOR SIZE AND QUANTITY BETWEEN OUTLETS AS HOMERUN UNLESS OTHERWISE NOTED.

E. OUTLET BOXES INSTALLED IN WET LOCATIONS WITH WEATHERPROOF HOODS SHALL BE LISTED AND IDENTIFIED AS "EXTRA DUTY".

POWER KEYED NOTES:

1. COORDINATE ROOF PENETRATION WITH ROOF INSTALLERS. COORDINATE RTU CONDUIT INSTALLATION WITH DIV 23. INSTALLATION THROUGH CURB PREFERRED, IF ACCEPTABLE TO MANUFACTURER. IF INSTALLED OUTSIDE OF CURB, COORDINATE PENETRATION LOCATION AND REQUIREMENTS WITH ROOFER; PROVIDE BOOTS AND OTHER MATERIALS AS REQUIRED.
2. INSTALL OUTLET FOR BASKETBALL GOAL LOWERING SYSTEM ADJACENT TO LOWERING MOTOR. PROVIDE RECEPTACLE OR HARD-WIRED CONNECTION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS - REFER TO FINALIZED SHOP DRAWINGS. INSTALL WIRING BETWEEN OUTLETS AND GOAL CONTROL PANEL (LOCATED IN ELEC RM. 205) AS INDICATED IN 3/4" EMT. INSTALL ADDITIONAL CONTROL WIRING BETWEEN CONTROL PANEL AND LOWERING SYSTEMS AS REQUIRED BY MANUFACTURER.
3. PROVIDE A 120V, 20A GFCI TYPE SERVICE RECEPTACLE AT AN ACCESSIBLE LOCATION WITHIN 25FT, OF ANY MECHANICAL EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS IN COMPLIANCE WITH NEC 210.63.
4. INSTALL 8"x8"x4" JUNCTION BOX AT CEILING STRUCTURE ADJACENT TO CONNECTION TO SCOREBOARD. INSTALL DISCONNECT(S) ADJACENT TO BOXES, QUANTITY AND RATING AS REQUIRED TO INTERRUPT ALL SUPPLY CIRCUITS - COORDINATE CIRCUIT REQUIREMENTS WITH FINAL SHOP DRAWINGS. MAKE FINAL TERMINATION TO DISPLAY USING APPROVED FLEXIBLE CONDUITS OR CABLES. INSTALL POWER CIRCUIT(S) WITHIN 1-1/2" EMT FROM THIS BOX TO SOURCE PANEL. INSTALL SECOND, SPARE, JUNCTION BOX AND 1-1/2" EMT ADJACENT TO FIRST, AND FOLLOW ROUTE OF HOMERUN CONDUIT.
5. INSTALL JUNCTION BOX UNDER SINK FOR AUTOMATIC CONTROLS. CONFIRM INSTALLATION HEIGHT AND CONNECTION TYPE WITH DIVISION 22 AND FIXTURES TO BE INSTALLED.
6. HAND DRYER. COORDINATE HEIGHT IN FIELD.

PLAN NORTH
TRUE NORTH
0 4' 8' 16' 24'
1/8" = 1'-0"

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

11/14/2024
ENGINEER
JOSEPH T. DANIELSON, JR.
STATE OF ALABAMA

UPPER LEVEL - POWER PLAN

E103

11/14/2024 4:19:45 PM TEMPLATE VERSION: 2022.1

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL (EQUALS CAN BE SUBMITTED FOR APPROVAL)	MOUNTING
A1	2x2 LED RECESSED PANEL, FLAT, HIGH OUTPUT, 80 CRI, 4000K, 4942 LUMENS	FINELITE	HPR 2X2	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
A1E	2x2 LED RECESSED PANEL, FLAT, HIGH OUTPUT, 80 CRI, 4000K, 4942 LUMENS, CONNECTED TO EMERGENCY POWER	FINELITE	HPR 2X2	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
A2	2x4 LED RECESSED PANEL, FLAT, BOOSTED OUTPUT, 80 CRI, 4000K, 4742 LUMENS	FINELITE	HPR 2X4	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
A2E	2x4 LED RECESSED PANEL, FLAT, BOOSTED OUTPUT, 80 CRI, 4000K, 4742 LUMENS, CONNECTED TO EMERGENCY POWER	FINELITE	HPR 2X4	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
A3	2x4 LED RECESSED PANEL, FLAT, VERY HIGH OUTPUT, 80 CRI, 4000K, 6979 LUMENS	FINELITE	HPR 2X4	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
A3E	2x4 LED RECESSED PANEL, FLAT, VERY HIGH OUTPUT, 80 CRI, 4000K, 6979 LUMENS, CONNECTED TO EMERGENCY POWER	FINELITE	HPR 2X4	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
A4	2x4 LED RECESSED PANEL, FLAT, HIGH OUTPUT, 80 CRI, 4000K, 5416 LUMENS	FINELITE	HPR 2X4	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
A4E	2x4 LED RECESSED PANEL, FLAT, HIGH OUTPUT, 80 CRI, 4000K, 5416 LUMENS, CONNECTED TO EMERGENCY POWER	FINELITE	HPR 2X4	RECESSED IN GRID. COORDINATE WITH CEILING TYPE
C1	CANOPY FIXTURE, LED, 3000 LUMENS, 4000K, SURFACE MOUNT, BLACK, TYPE FLOOD	WILLIAMS	VG1	SURFACE MOUNTED ON UNDERSIDE OF CANOPY.
D6	6" LED DOWNLIGHT, WET LOCATION, 2000 LUMENS, 90 CRI, 4000K, WIDE BEAM, SPECULAR CLEAR, 0-10V DIMMING	SIGNIFY	PiRR	RECESSED. COORDINATE WITH CEILING TYPE
D6E	6" LED DOWNLIGHT, WET LOCATION, 2000 LUMENS, 90 CRI, 4000K, WIDE BEAM, SPECULAR CLEAR, 0-10V DIMMING, CONNECTED TO EMERGENCY POWER	SIGNIFY	PiRR	RECESSED. COORDINATE WITH CEILING TYPE
H1	RGBW COLOR CHANGING LED HIGH BAY	COLOR KINETICS	REACH ELITE HP	SUSPENDED AT BOTTOM OF TRUSS CHORD
H2	LED HIGH BAY, 5000K, 120 DEG. BEAM ANGLE	TGS	CHB E 200W 50K	SUSPENDED AT BOTTOM OF TRUSS CHORD
H2E	LED HIGH BAY, 5000K, 120 DEG. BEAM ANGLE, CONNECTED TO EMERGENCY POWER	TGS	CHB E 200W 50K	SUSPENDED AT BOTTOM OF TRUSS CHORD
HR	RECESSED MODULE. HANDRAIL FIXTURE SNAP PUCK, 4000K,STANDARD, POLYCARBONATE, STAINLESS STEEL, CURVED FACE	ALPHABET	THETA750 SNAP	DRILL AND INSERT
K	4' LED WALL BRACKET, SATIN NICKEL FINISH, FIXTURES IN STAIRWELLS TO BE EQUIPPED WITH INTEGRAL OCCUPANCY SENSOR, DIMMING	TECH LIGHTING	700BCSPAN4-S-LED830	WALL MOUNTED
KE	4' LED WALL BRACKET, SATIN NICKEL FINISH, CONNECTED TO EMERGENCY POWER; FIXTURES IN STAIRWELLS TO BE EQUIPPED WITH INTEGRAL OCCUPANCY SENSOR, DIMMING	TECH LIGHTING	700BCSPAN4-S-LED830	WALL MOUNTED
P1	POST TOP LED, 16' MOUNTING HEIGHT, 4000K	VISONAIRE LIGHTING	LSO-M-T4A-4L-4K-PTS	POLE MOUNTED
P8	8' PENDANT, DIRECT, 322 LUMENS PER FOOT, DOWNLIGHT SPREAD OPTIC, 80 CRI, 4000K	FINELITE	HP 2 P 8FT	PENDANT MOUNT
P8E	8' PENDANT, DIRECT, 322 LUMENS PER FOOT, DOWNLIGHT SPREAD OPTIC, 80 CRI, 4000K, CONNECTED TO EMERGENCY POWER	FINELITE	HP 2 P 8FT	PENDANT MOUNT
R4	4' RECESSED LED, 423 LUMENS PER FOOT, 90 CRI, 4000K	FINELITE	HP 2 R 4FT	RECESSED. COORDINATE WITH CEILING TYPE
R4E	4' RECESSED LED, 423 LUMENS PER FOOT, 90 CRI, 4000K, CONNECTED TO EMERGENCY POWER	FINELITE	HP 2 R 4FT	RECESSED. COORDINATE WITH CEILING TYPE
R6	6' RECESSED LED, 423 LUMENS PER FOOT, 90 CRI, 4000K	FINELITE	HP 2 R 6FT	RECESSED. COORDINATE WITH CEILING TYPE
R6E	6' RECESSED LED, 423 LUMENS PER FOOT, 90 CRI, 4000K, CONNECTED TO EMERGENCY POWER	FINELITE	HP 2 R 6FT	RECESSED. COORDINATE WITH CEILING TYPE
R8	8' RECESSED LED, 423 LUMENS PER FOOT, 90 CRI, 4000K	FINELITE	HP 2 R 8FT	RECESSED. COORDINATE WITH CEILING TYPE
R9	9' RECESSED LED, 423 LUMENS PER FOOT, 90 CRI, 4000K	FINELITE	HP 2 R 8FT	RECESSED. COORDINATE WITH CEILING TYPE
R9E	9' RECESSED LED, 423 LUMENS PER FOOT, 90 CRI, 4000K	FINELITE	HP 2 R 8FT	RECESSED. COORDINATE WITH CEILING TYPE
S4	4' LED STRIP, ROUND LENS, 6500 LUMENS, 80 CRI, 4000K, 0-10V DIMMING	H.E. WILLIAMS	75R 4	SURFACE MOUNTED. SUSPENDED IN COORIDORS WITH NO CEILINGS.
S4E	4' LED STRIP, ROUND LENS, 6500 LUMENS, 80 CRI, 4000K, 0-10V DIMMING, CONNECTED TO EMERGENCY POWER	H.E. WILLIAMS	75R 4	SURFACE MOUNTED. SUSPENDED IN COORIDORS WITH NO CEILINGS.
SA	POLE MOUNTED DUAL-HEAD LED AREA LIGHT, 40' MOUNTING HEIGHT, 14,000 LUMENS, TYPE 5 DISTRIBUTION, 4000K, 80CRI	VISONAIRE LIGHTING	VLX-1-T5-96LC-3-4K	POLE MOUNTED
SB	POLE MOUNTED SINGLE-HEAD LED AREA LIGHT, 40' MOUNTING HEIGHT, 13,000 LUMENS, TYPE 4 DISTRIBUTION, 4000K, 80CRI	VISONAIRE LIGHTING	VLX-1-T4-96LC-3-4K	POLE MOUNTED
SC	POLE MOUNTED SINGLE-HEAD LED AREA LIGHT, 40' MOUNTING HEIGHT, 47,000 LUMENS, TYPE 4 DISTRIBUTION, 4000K, 80CRI	VISONAIRE LIGHTING	VLX-1-T4-192LC-7-4K	POLE MOUNTED
T1	RGB LED TAPE STRIP, SEGMENT LENGTHS AS INDICATED; EQUIP AND INSTALL TAPE IN ALUMINUM EXTRUSION WITH DIFFUSE CLEAR LENS; 4W / FT, 90 CRI; PROVIDE 24V REMOTE DRIVERS AND COORDINATE DRIVER/CONTROLLER LOCATION; PROVIDE OWNER WITH CONTROLLER APPLICATION SOFTWARE AS REQUIRED.	KELVIX	RGBCT-24V	TAPE STRIP IN DISPLAY CASE CHANNELS
UC	UNDER CABINET TAPE LIGHT, 100 LUMENS PER FOOT, LENGTH AS REQUIRED, WET LOCATION, 90 CRI, 3000K	JUNO	JFX SERIES	MOUNT UNDERSIDE OF UPPER CABINETS, COORDINATE WITH ARCHITECT
W1	ARCHITECTURAL WALL-PACK, WEDGE, 80 CRI, 4000K, TYPE 4 DISTRIBUTION, 6000 LUMENS	GARDCO	GWM	WALL MOUNTED; HEIGHT AS INDICATED ON PLANS
W1E	ARCHITECTURAL WALL-PACK, WEDGE, 80 CRI, 4000K, TYPE 4 DISTRIBUTION, 6000 LUMENS, CONNECTED TO EMERGENCY POWER	GARDCO	GWM	WALL MOUNTED; HEIGHT AS INDICATED ON PLANS
W2	ARCHITECTURAL WALL SCONCE, RECTANGULAR, MEDIUM DISTRIBUTION UP LIGHT, FORWARD THROW DOWNLIGHT, 4000K, 2300 LUMENS	WE EF	QLS410 LED	WALL MOUNTED; HEIGHT AS INDICATED ON PLANS
W2E	ARCHITECTURAL WALL SCONCE, RECTANGULAR, MEDIUM DISTRIBUTION UP LIGHT, FORWARD THROW DOWNLIGHT, 4000K, 2300 LUMENS, CONNECTED TO EMERGENCY POWER	WE EF	QLS410 LED	WALL MOUNTED; HEIGHT AS INDICATED ON PLANS
W3	LINEAR UPLIGHT, HIGH OUTPUT, 4000K, 12" LENGTH,	INSIGHT LIGHTING	MEDLEY X	WALL MOUNTED; HEIGHT AS INDICATED ON PLANS
W4	SIGN FLOODLIGHT, 2300 LUMENS, 70 CRI, 4000K, RECTANGULAR MEDIUM FLOOD	SIGNIFY	CSFS	REFER TO PLANS.
X1	UNIVERSAL MOUNT EXIT SIGN, ILLUMINATED FACE AND DIRECTIONAL ARROWS AS INDICATED, CONNECTED TO EMERGENCY POWER	CHLORIDE	44R SERIES	WALL OR CEILING
X2	UNIVERSAL MOUNT LED EXIT SIGN, DOUBLE-SIDED ILLUMINATED FACES AND DIRECTIONAL ARROWS AS INDICATED, CONNECTED TO EMERGENCY POWER	CHLORIDE	44R SERIES	WALL OR CEILING

LIGHTING CONTROL SCHEDULE

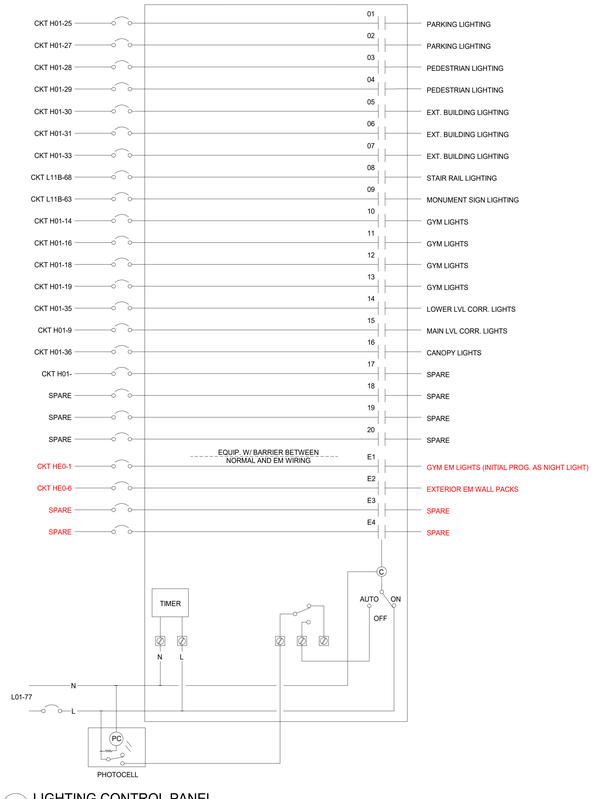
COMPLY WITH ASHRAE 90.1

LIGHTING CONTROL KEY	SPACE TYPE	WALL SWITCH	SENSOR	DAYLIGHT CTRL	SCHEDULE	OPERATION	NOTES
C1	CONFERENCE/MULTIPURPOSE ROOM	DT1	CEILING	-	-	MANUAL ON; OFF AFTER 20 MIN VACANCY; SCENE 1: TBD...	
C1D	CONFERENCE ROOM W/ DAYLIGHTING	DT1	CEILING	YES	-	MANUAL ON; OFF AFTER 20 MIN VACANCY; SCENE 1: TBD...	
C2	CORRIDOR	D2	-	-	YES	MANUAL ON/OFF (OVERRIDE) PER ZONE; SCHEDULED ON/OFF	3
C3	CLASSROOM	D4A	CEILING	-	-	MANUAL ON; OFF AFTER 20 MIN VACANCY; SCENE 1: 50%; SCENE 2: 100%	
C3D	CLASSROOM W/ DAYLIGHTING	D4A	CEILING	YES	-	MANUAL ON; OFF AFTER 20 MIN VACANCY; SCENE 1: 50%; SCENE 2: 100%	
C4	COMPUTER ROOM	D4A	CEILING	-	-	MANUAL ON; OFF AFTER 20 MIN VACANCY; SCENE 1: 50%; SCENE 2: 100%	
D1	DINING AREA	D2K	-	-	YES	MANUAL ON/OFF (OVERRIDE) PER ZONE; SCHEDULED ON/OFF	
D1D	DINING AREA W/ DAYLIGHTING	D2K	-	YES	YES	MANUAL ON/OFF (OVERRIDE) PER ZONE; SCHEDULED ON/OFF	
E1	ELECTRICAL / MECHANICAL ROOM	S1	-	-	-	MANUAL ON/OFF	
EX1	EXTERIOR BUILDING WALL PACKS	-	PHOTOCELL	-	YES	AUTO ON PHOTOCELL OR SCHEDULE 6:00PM, WHICHEVER IS FIRST; OFF AT 00:00	
EX2	EXTERIOR PARKING	-	PHOTOCELL	-	YES	AUTO ON OR SCHEDULE 6:00PM, WHICHEVER IS FIRST; DIM TO 50% AT 00:00	
EX3	EXTERIOR LANDSCAPE	-	PHOTOCELL	-	YES	AUTO ON PHOTOCELL OR SCHEDULE 6:00PM, WHICHEVER IS FIRST; OFF AT 00:00	
EX4	EXTERIOR PATHWAY	-	PHOTOCELL	-	YES	AUTO ON OR SCHEDULE 6:00PM, WHICHEVER IS FIRST; DIM TO 50% AT 00:00	
G1	GYM (HOUSE LIGHTS)	DS5	-	-	YES	MANUAL ON/OFF (OVERRIDE) WITH DIMMING; SCHEDULED ON/OFF	1,2
G2	GYM (PERFORMANCE LIGHTS)	-	-	-	-	PROGRAMMABLE SCENES AND ACTIONS AS DIRECTED BY OWNER; CONTROL VIA BLUETOOTH CONNECTED TABLET OR PHONE	
K1	KITCHEN / FOOD PREP	DS3	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
L1	LAUNDRY	DS3	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
L2	LOADING / RECEIVING	DS3	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
L3	LOBBY	D2K	CEILING	YES	YES	MANUAL ON/OFF (OVERRIDE) PER ZONE; SCHEDULED ON/OFF	
L4	LOCKER ROOM	D2	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
L5	LOUNGE / BREAKROOM	D2	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
O1	OFFICE < 250 SQ FT	OS	-	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
O2	OFFICE > 250 SQ FT	D4B	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY; MANUAL DIMMING	
O3	OFFICE > 250 SQ FT W/ DAYLIGHTING	D4B	CEILING	YES	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY; MANUAL DIMMING	
R1	RESTROOM - SMALL	OS	-	-	-	MANUAL ON; OCCUPANCY ON; OFF AFTER 20 MIN VACANCY	
R2	RESTROOM - GROUP/LARGE	D2K	CEILING	-	-	MANUAL ON; OCCUPANCY ON; OFF AFTER 20 MIN VACANCY	
S1	STAIRWAY	SK	INTEGRAL	-	-	MANUAL ON; OCCUPANCY ON; DIM TO 50% AFTER 20 MIN VACANCY	4
S2	STORAGE < 50 SQ FT	OS	-	-	-	MANUAL ON; OCCUPANCY ON; OFF AFTER 20 MIN VACANCY	
S3	STORAGE < 1000 SQ FT	D2	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
S4	STORAGE > 1000 SQ FT	D2	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
W1	WAREHOUSE	D2	CEILING/EMB	-	-	MANUAL ON; OCCUPANCY ON TO 50%; OFF AFTER 20 MIN VACANCY	
W2	WORKSHOP	D4B	CEILING	-	-	MANUAL ON; OCCUPANCY ON TO 50%; DIM TO 50% AFTER 20 MIN VACANCY	

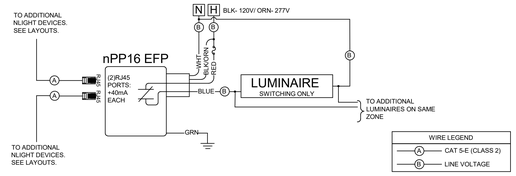
NOTES:
1. OVERRIDE BY PERFORMANCE LIGHTING CONTROL SYSTEM INPUT (IGNORES LOCAL SWITCH CONTROLS).
2. INPUTS AND OPERATION APPLY TO HOUSE LIGHTS - PERFORMANCE/SPORTS LIGHTING CONTROLLED SEPARATELY.
3. CONFIRM ON/OFF SCHEDULED TIMES WITH OWNER; DEFAULT FOR INTERIOR LIGHTING IS ON AT 6:30 AM, OFF AT 6:00 PM; DEFAULT FOR EXTERIOR IS ON AT 6:00 PM, OFF AT 7:00 AM
4. OCCUPANCY SENSORS MAY BE EMBEDDED IN INDIVIDUAL FIXTURES IN LIEU OF SEPARATE SENSORS; REFER TO FIXTURE SCHEDULE

LIGHTING CONTROLS

SWITCH	DESCRIPTION
D2	DIGITAL 2 BUTTON SWITCH: ON, OFF
D4A	DIGITAL 4 BUTTON SWITCH: ON, OFF, SCENE 1, SCENE 2
D4B	DIGITAL 4 BUTTON SWITCH: ON, OFF, UP, DOWN
D6	DIGITAL 6 BUTTON SWITCH
D2K	KEYED DIGITAL 2 BUTTON SWITCH: ON, OFF
D4K	KEYED DIGITAL 4 BUTTON SWITCH: ON, OFF, UP, DOWN
DT1	DIGITAL TOUCH SCREEN CONTROLLER
S1	LINE VOLTAGE SWITCH
SK	LINE VOLTAGE KEYED SWITCH
OS	WALL-MOUNTED LOW VOLTAGE OCCUPANCY SWITCH



2 LIGHTING CONTROL PANEL
N.T.S.



TYPICAL WIRING DIAGRAM: NPP16 EFP
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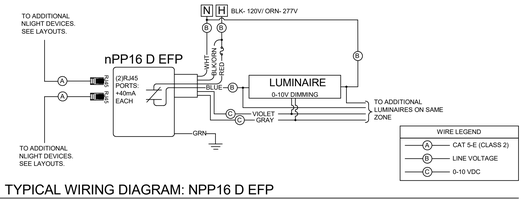

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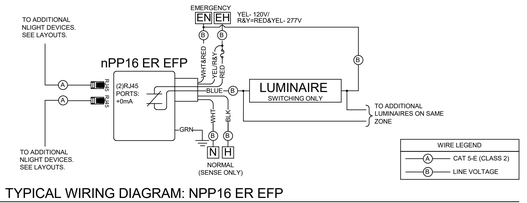

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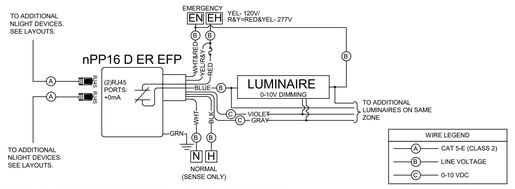

TYPICAL WIRING DIAGRAM: NPP16 D ER EFP
N.T.S.

1 LIGHTING POWER PACK WIRING DIAGRAMS
N.T.S.

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ISSUE	DATE
DCM FINAL SUBMITTAL	10.18.24

DRAWN BY: REA
CHECKED BY: JTD

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

LIGHTING- GENERAL

E200

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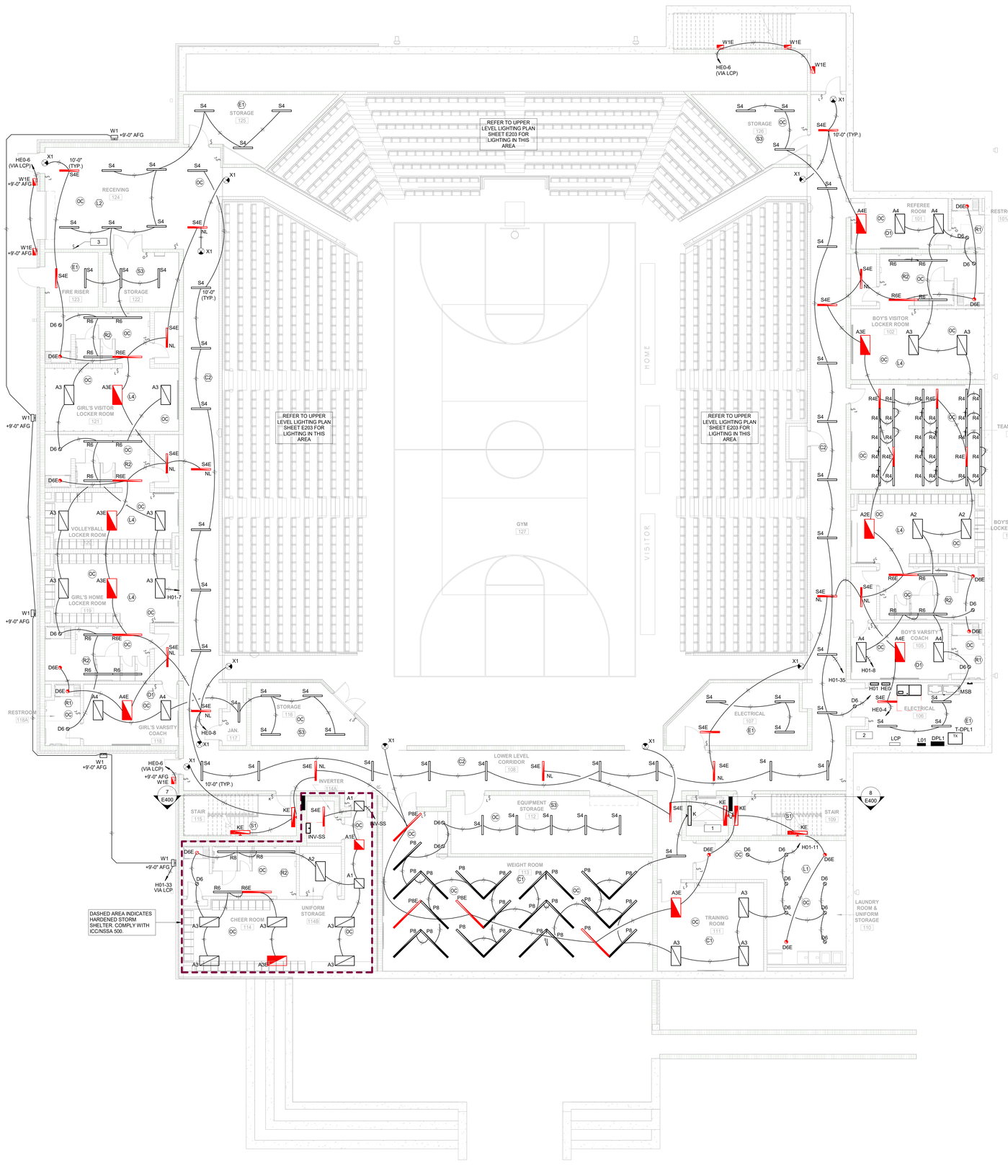

1 LOWER LEVEL LIGHTING PLAN
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. UP TO THREE BRANCH CIRCUITS RATED NOT MORE THAN 30A, AND OF DIFFERENT PHASES, MAY BE INSTALLED IN A SINGLE CONDUIT, BUT CONDUCTOR AMPACITIES MUST BE DERATED IN ACCORDANCE WITH NEC 315.15 (B) (3).

B. CONNECT ALL EXIT SIGNS AHEAD OF ALL SWITCHING IN SPACES SERVED.

C. ALL EXTERIOR LIGHTING SHALL HAVE THE SAME COLOR TEMPERATURE.

D. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY AND BE COMPATIBLE WITH ROOM LOW-VOLTAGE DIMMING OR ON/OFF SWITCHING AS INDICATED.

E. PROVIDE POWER PACKS AND ADDITIONAL COMPONENTS AS NEEDED, WHETHER OR NOT SHOWN ON PLANS, TO PROVIDE A FULLY FUNCTIONING CONTROL SYSTEM COMPLIANT WITH ASHRAE 90.1

F. COORDINATE ABOVE CEILING ACCESS TO INSTALLED COMPONENTS WITH ARCHITECT PRIOR TO ROUGH-IN. IF FIXTURES ARE INSTALLED IN HARD CEILINGS, LOCATE DEVICES, E.G. POWER PACKS, ETC., ABOVE ADJACENT SPACES WITH CEILING GRID OR OPEN TO STRUCTURE EQUIPMENT SPACES FOR ACCESS.

G. OCCUPANCY AND DAYLIGHT SENSOR LAYOUT SHOWN IS APPROXIMATE. ADJUST LOCATIONS AND QUANTITIES IN FIELD AS NECESSARY TO PROVIDE FULL ROOM COVERAGE IN ACCORDANCE WITH MANUFACTURER'S DOCUMENTATION.

H. PROVIDE LOW-VOLTAGE SWITCHES CAPABLE OF MULTI-UNIT COMMUNICATION WITH POWER PACKS, OCCUPANCY SENSORS AND/OR LIGHT FIXTURES AS REQUIRED IN SPACES THAT REQUIRE MULTIPLE SWITCH LOCATIONS (SUCH AS 3-WAY AND 4-WAY APPLICATIONS).

I. CONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING TYPE SPECIFICATIONS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING TO ASSURE PROPER INSTALLATION. CONFLICTS PERTAINING TO THE INSTALLATION REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD.

J. EMERGENCY FIXTURES SUPPLIED BY INVERTER-BACKED PANEL AS INDICATED. EMERGENCY LIGHTING CIRCUITS ON THIS LEVEL SHALL BE RATED 20A, WITH (2) #10, #10G, IN 3/4"C UNLESS OTHERWISE NOTED. CONNECT EMERGENCY CIRCUIT AND UNSWITCHED NORMAL LIGHTING CIRCUIT SERVING SAME AREA TO SHUNT DEVICE OR EMERGENCY POWER PACKS AS REQUIRED. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.

LIGHTING KEYED NOTES:

1. MOUNT ELEVATOR PIT FIXTURES 4' FROM PIT FLOOR. COORDINATE LOCATIONS WITH ELEVATOR SHOP DRAWINGS AND COORDINATE IN FIELD WITH ELEVATOR INSTALLERS TO AVOID CONFLICTS WITH ELEVATOR RAILS, EQUIPMENT, AND RELATED COMPONENTS. INSTALL ADDITIONAL FIXTURE(S) IF REQUIRED TO ILLUMINATE PIT FLOOR TO CODE-REQUIRED LEVELS.
2. LINE-VOLTAGE SWITCHING WITHOUT AUTOMATIC CONTROLS PROVIDED IN EQUIPMENT ROOMS WHERE AUTOMATIC SHUT-OFF POSES SAFETY RISKS.
3. INSTALL LABEL ABOVE SWITCH THAT READS "ROOF LIGHTS". PROVIDE 1/2" WHITE LETTERING ON BLACK BACKGROUND.

PLAN NORTH
TRUE NORTH
0 4' 8' 16' 24'
1/8" = 1'-0"

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ISSUE	DATE
DCM FINAL SUBMITTAL	10.18.24

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA 11/14/2024 JOHN T. DANIELSON, JR. ENGINEER

LOWER LEVEL - LIGHTING PLAN

E201

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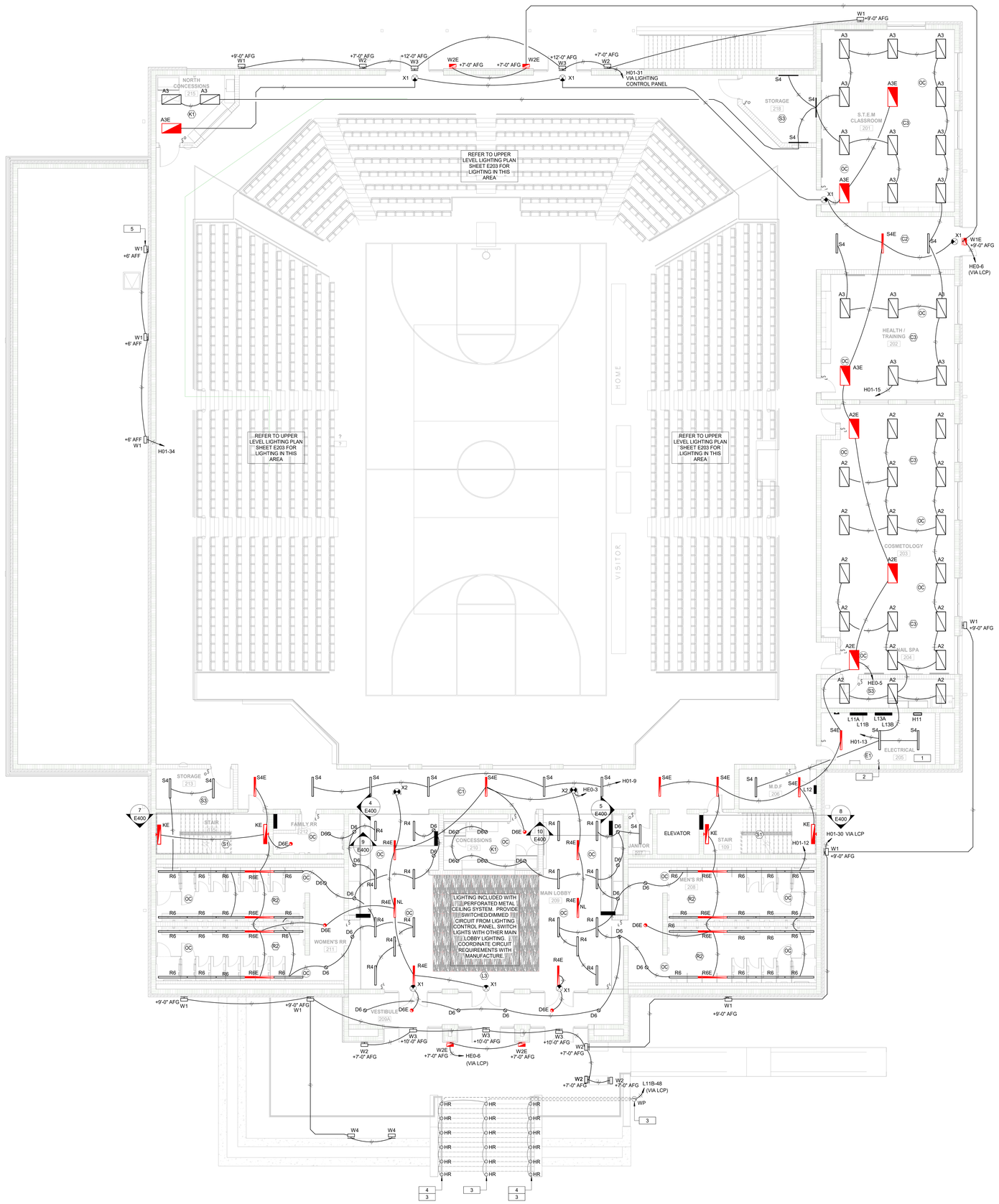

1 MAIN LEVEL LIGHTING PLAN
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. UP TO THREE BRANCH CIRCUITS RATED NOT MORE THAN 30A, AND OF DIFFERENT PHASES, MAY BE INSTALLED IN A SINGLE CONDUIT, BUT CONDUCTOR AMPACITIES MUST BE DERATED IN ACCORDANCE WITH NEC 315.15 (B) (3).

B. CONNECT ALL EXIT SIGNS AHEAD OF ALL SWITCHING IN SPACES SERVED.

C. ALL EXTERIOR LIGHTING SHALL HAVE THE SAME COLOR TEMPERATURE.

D. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY AND BE COMPATIBLE WITH ROOM LOW-VOLTAGE DIMMING OR ON/OFF SWITCHING AS INDICATED.

E. PROVIDE POWER PACKS AND ADDITIONAL COMPONENTS AS NEEDED, WHETHER OR NOT SHOWN ON PLANS, TO PROVIDE A FULLY FUNCTIONING CONTROL SYSTEM COMPLIANT WITH ASHRAE 90.1.

F. COORDINATE ABOVE CEILING ACCESS TO INSTALLED COMPONENTS WITH ARCHITECT PRIOR TO ROUGH-IN. IF FIXTURES ARE INSTALLED IN HARD CEILINGS, LOCATE DEVICES, E.G. POWER PACKS, ETC., ABOVE ADJACENT SPACES WITH CEILING GRID OR OPEN TO STRUCTURE EQUIPMENT SPACES FOR ACCESS.

G. OCCUPANCY AND DAYLIGHT SENSOR LAYOUT SHOWN IS APPROXIMATE. ADJUST LOCATIONS AND QUANTITIES IN FIELD AS NECESSARY TO PROVIDE FULL ROOM COVERAGE IN ACCORDANCE WITH MANUFACTURER'S DOCUMENTATION.

H. PROVIDE LOW-VOLTAGE SWITCHES CAPABLE OF MULTI-UNIT COMMUNICATION WITH POWER PACKS, OCCUPANCY SENSORS AND/OR LIGHT FIXTURES AS REQUIRED IN SPACES THAT REQUIRE MULTIPLE SWITCH LOCATIONS (SUCH AS 3-WAY AND 4-WAY APPLICATIONS).

I. CONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING TYPE SPECIFICATIONS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING TO ASSURE PROPER INSTALLATION. CONFLICTS PERTAINING TO THE INSTALLATION REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD.

J. EMERGENCY FIXTURES SUPPLIED BY INVERTER-BACKED PANEL AS INDICATED. EMERGENCY LIGHTING CIRCUITS ON THIS LEVEL SHALL BE RATED 20A, WITH (2) #10, #10G, IN 3/4"C UNLESS OTHERWISE NOTED. CONNECT EMERGENCY CIRCUIT AND UNSWITCHED NORMAL LIGHTING CIRCUIT SERVING SAME AREA TO SHUNT DEVICE OR EMERGENCY POWER PACKS AS REQUIRED. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.

LIGHTING KEYED NOTES:

1. LINE-VOLTAGE SWITCHING WITHOUT AUTOMATIC CONTROLS PROVIDED IN EQUIPMENT ROOMS WHERE AUTOMATIC SHUT-OFF POSES SAFETY RISKS.
2. INSTALL LABEL ABOVE SWITCH THAT READS "ROOF LIGHTS". PROVIDE 1/2" WHITE LETTERING ON BLACK BACKGROUND.
3. ROUTE LOW VOLTAGE WIRING WITHIN HAND RAIL. EXTEND CONDUIT FROM UPPER END OF RAIL, AT BASE, TO A NEMA 4 COMPOSITE JUNCTION BOX MOUNTED ON SIDE WALL, CONCEALED BEHIND LANDSCAPING. INSTALL REMOTE DRIVERS IN SUITABLE ENCLOSURE ADJACENT TO JUNCTION BOX. ENSURE LOW VOLTAGE WIRING IS RATED MIN. 300V.
4. INSTALL THE LEFT AND RIGHT HAND RAIL PUCKS 30 DEGREES INBOARD FROM DOWNWARD. CENTER RAIL PUCKS SHOULD BE INSTALLED VERTICALLY DOWNWARD.
5. LIGHT SWITCH FOR ROOF LIGHTING FIXTURES IN RECEIVING ROOM BELOW NEAR ROOF HATCH.

PLAN NORTH

TRUE NORTH

0 4" 8" 16" 24"
1/8" = 1'-0"

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA
11/14/2024
REGISTERED ENGINEER
JOHN TANNER DANIELSON JR.

MAIN LEVEL - LIGHTING PLAN

E202

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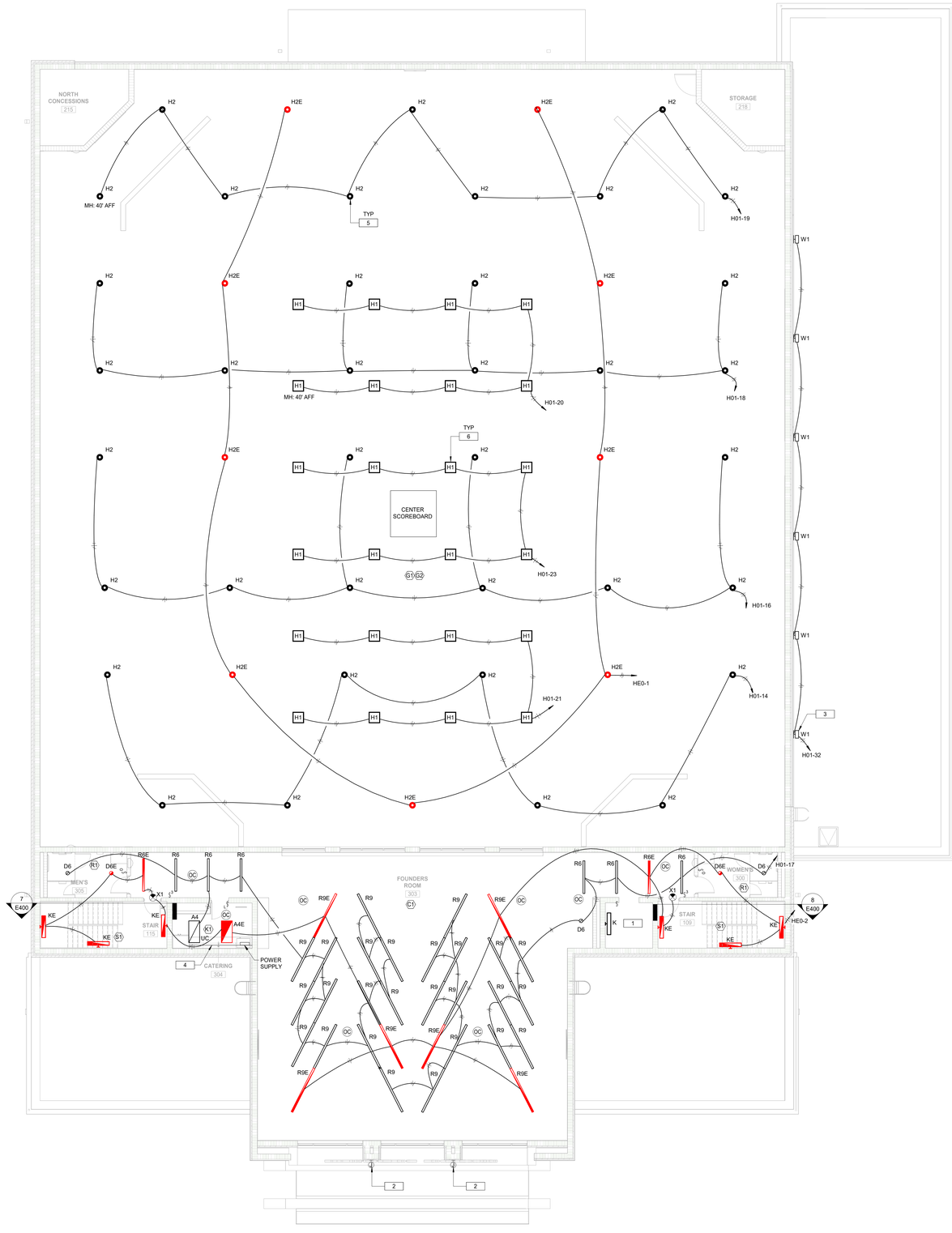

1 UPPER LEVEL LIGHTING PLAN
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. UP TO THREE BRANCH CIRCUITS RATED NOT MORE THAN 30A, AND OF DIFFERENT PHASES, MAY BE INSTALLED IN A SINGLE CONDUIT, BUT CONDUCTOR AMPACITIES MUST BE DERATED IN ACCORDANCE WITH NEC 315.15 (B) (3).

B. CONNECT ALL EXIT SIGNS AHEAD OF ALL SWITCHING IN SPACES SERVED.

C. ALL EXTERIOR LIGHTING SHALL HAVE THE SAME COLOR TEMPERATURE.

D. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY AND BE COMPATIBLE WITH ROOM LOW-VOLTAGE DIMMING OR ON/OFF SWITCHING AS INDICATED.

E. PROVIDE POWER PACKS AND ADDITIONAL COMPONENTS AS NEEDED, WHETHER OR NOT SHOWN ON PLANS, TO PROVIDE A FULLY FUNCTIONING CONTROL SYSTEM COMPLIANT WITH ASHRAE 90.1.

F. COORDINATE ABOVE CEILING ACCESS TO INSTALLED COMPONENTS WITH ARCHITECT PRIOR TO ROUGH-IN. IF FIXTURES ARE INSTALLED IN HARD CEILINGS, LOCATE DEVICES, E.G. POWER PACKS, ETC., ABOVE ADJACENT SPACES WITH CEILING GRID OR OPEN TO STRUCTURE EQUIPMENT SPACES FOR ACCESS.

G. OCCUPANCY AND DAYLIGHT SENSOR LAYOUT SHOWN IS APPROXIMATE. ADJUST LOCATIONS AND QUANTITIES IN FIELD AS NECESSARY TO PROVIDE FULL ROOM COVERAGE IN ACCORDANCE WITH MANUFACTURER'S DOCUMENTATION.

H. PROVIDE LOW-VOLTAGE SWITCHES CAPABLE OF MULTI-UNIT COMMUNICATION WITH POWER PACKS, OCCUPANCY SENSORS AND/OR LIGHT FIXTURES AS REQUIRED IN SPACES THAT REQUIRE MULTIPLE SWITCH LOCATIONS (SUCH AS 3-WAY AND 4-WAY APPLICATIONS).

I. CONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING TYPE SPECIFICATIONS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING TO ASSURE PROPER INSTALLATION. CONFLICTS PERTAINING TO THE INSTALLATION REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD.

J. EMERGENCY FIXTURES SUPPLIED BY INVERTER-BACKED PANEL AS INDICATED. EMERGENCY LIGHTING CIRCUITS ON THIS LEVEL SHALL BE RATED 20A, WITH (2) #10, #10G, IN 3/4"C UNLESS OTHERWISE NOTED. CONNECT EMERGENCY CIRCUIT AND UNSWITCHED NORMAL LIGHTING CIRCUIT SERVING SAME AREA TO SHUNT DEVICE OR EMERGENCY POWER PACKS AS REQUIRED. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.

LIGHTING KEYED NOTES:

1. MOUNT UPPER SHAFT CONVENIENCE LIGHT 12" ABOVE TOP OF DOOR SILL. COORDINATE EXACT LOCATION OF FIXTURE AND SWITCH IN FIELD WITH ELEVATOR INSTALLER.
2. PROVIDE JUNCTION BOX FOR BACKLIT SIGN POWER. COORDINATE EXACT LOCATION WITH ARCHITECT.
3. LIGHT SWITCH FOR ROOF LIGHTING FIXTURES IN ELECTRICAL ROOM BELOW NEAR ROOF HATCH.
4. TYPE UC LED STRIP FIXTURE INSTALLED BENEATH UPPER CABINET, FRONT SIDE AGAINST CABINET LIP, CONTINUOUS. COORDINATE WITH ARCHITECTURE AND MILLWORK SHOP DRAWINGS FOR EXACT LENGTHS REQUIRED FOR INSTALLATION. INSTALL LOW VOLTAGE LEADS FROM FIXTURE TO POWER SUPPLY LOCATED IN UPPER CABINET AS SHOWN. CONNECT POWER SUPPLY TO NORMAL LIGHTING CIRCUIT IN THE ROOM.
5. MOUNT H2 AND H2E FIXTURES DIRECTLY TO TRUSS BOTTOM CHORD.
6. MOUNT PERFORMANCE FIXTURES (H1) SO THAT BOTTOM OF FIXTURE IS 12" BELOW TRUSS BOTTOM CHORD. PROVIDE 3" X 3" ANGLE STEEL SUPPORTS AS REQUIRED TO SUPPORT FIXTURES FROM TRUSS IN POSITION SHOWN.

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ISSUE | DATE
DCM FINAL SUBMITTAL | 10.18.24

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

11/14/2024
PRELIMINARY NOT FOR CONSTRUCTION OR PERMITTING

UPPER LEVEL - LIGHTING PLAN

E203

PLAN NORTH
TRUE NORTH
0 4" 8" 16" 24"
1/8" = 1'-0"

11/14/2024 4:20:17 PM TEMPLATE VERSION: 2022.1

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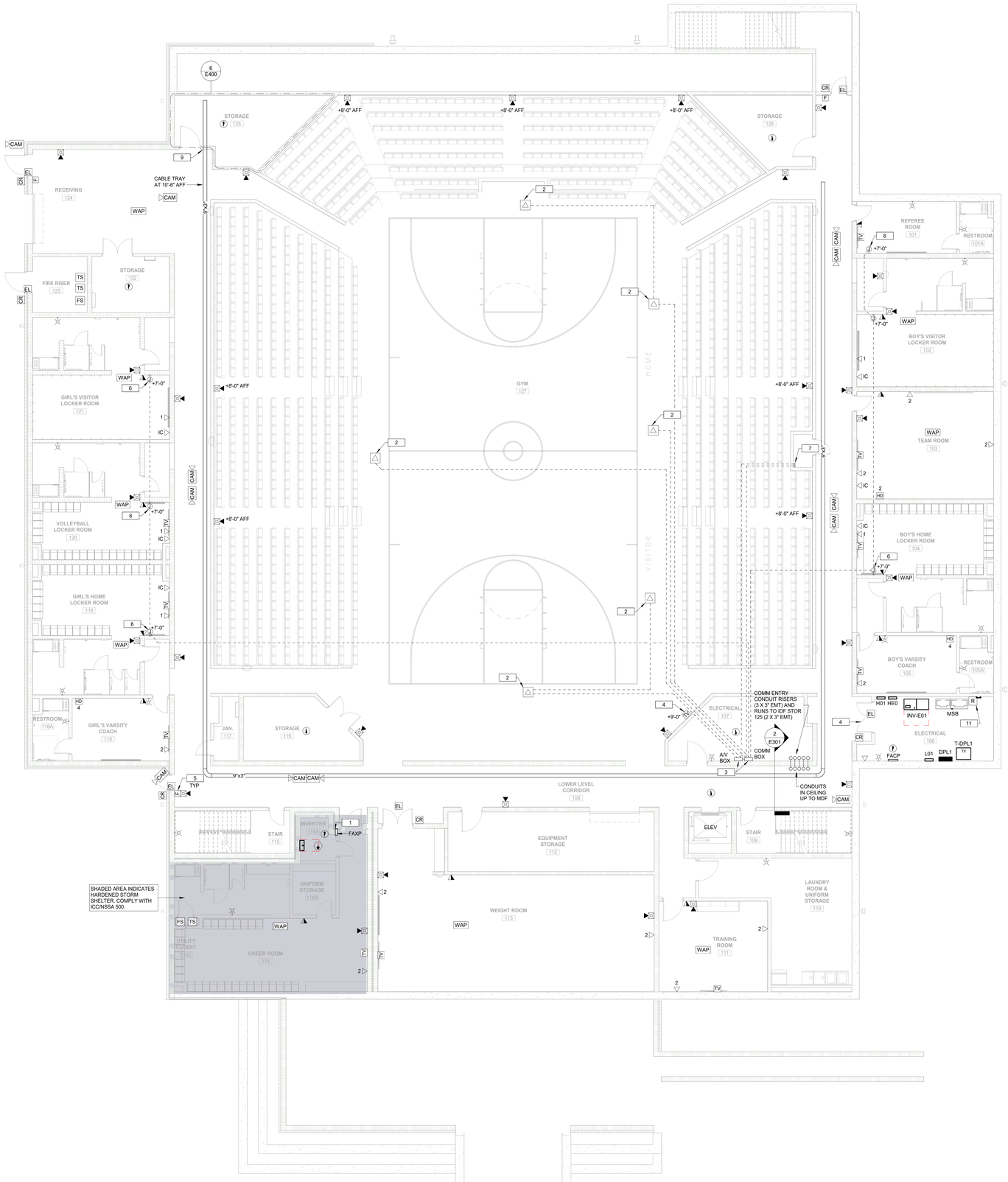


1 LOWER LEVEL SYSTEMS PLAN
1/8" = 1'-0"

SYSTEMS GENERAL NOTES:

A. FIRE ALARM DEVICES, LIGHT SWITCHES, DOOR CONTROLS, AND OTHER DEVICES THAT OCCUPANTS WILL INTERACT WITH SHALL COMPLY WITH THE ARCHITECTURAL BARRIERS ACT.

B. FOR DOORS WITH ACCESS CONTROL FEATURES INDICATED: INSTALL BACKBOX AT 46" FOR CARD READER AND 1" CONDUIT TO BOX ABOVE CEILING. INSTALL 1/2" OR LARGER CONDUIT FROM STRIKE BOX TO ABOVE CEILING BOX - COORDINATE IN-FRAME BOX AND CONDUIT REQUIREMENTS WITH APPROVED DOOR PACKAGE AND ACCESS CONTROL VENDOR.

C. EXTERIOR CAMERAS: PROVIDE BACK-BOX AND 1" CONDUIT TO INTERIOR ABOVE-CEILING SPACE. INSTALL PULL STRING AND GASKETED BLANK COVER. SEAL CONDUITS WITH A REMOVABLE, MOISTURE-RESISTANT PLUG OR SIMILAR.

D. CABLING CONCEALED ABOVE CEILING SHALL BE PLENUM RATED.

E. EXPOSED CONDUITS IN GYMNASIUM SHALL BE EMT OR RIGID STEEL CONDUIT.

F. FIRE ALARM CIRCUITS CONCEALED IN WALLS, INACCESSIBLE CEILINGS, OR EXPOSED SHALL BE INSTALLED IN EMT. OPEN WIRING PERMITTED ONLY ABOVE DROP CEILINGS; SUPPORTED AS INDICATED IN PROJECT DOCUMENTS.

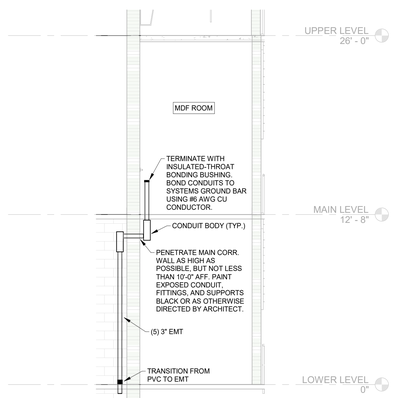
G. ELECTRIFIED EGRESS DOORS MUST BE UNLOCKED BY THE BUILDING'S FIRE ALARM OR SPRINKLER SYSTEM. ONCE UNLOCKED, THE DOORS MUST STAY UNLOCKED UNTIL THE FIRE ALARM SYSTEM IS RESET PER IFC SECTION 1010.2.12 (5-6).

H. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF TELEVISIONS, DISPLAYS, SMART BOARDS, ETC. COORDINATE HEIGHT OF IN-WALL TV BOXES SO THAT BOX AND CABLING WILL BE HIDDEN AFTER FINAL INSTALLATION.

I. COORDINATE FINAL LOCATION OF TEACHING STATIONS/DESKS WITH OWNER PRIOR TO ROUGH-IN OF POWER AND SYSTEMS OUTLETS, SUCH AS "HD" OUTLETS, INTENDED FOR CONNECTION OF MEDIA FOR ROOM DISPLAY.

SYSTEMS KEYED NOTES:

1. FIRE ALARM EXTENDER PANEL FOR STORM SHELTER. EXTENDER PANEL SHALL BE CAPABLE OF SUPPORTING STORM SHELTER DEVICES AND FUNCTIONS DESPITE LOSS OF LINK TO MAIN FIRE ALARM SYSTEM. EQUIP WITH ADJACENT EMERGENCY TELEPHONE OR CALL BOX. INSTALL FIRE ALARM CIRCUITS AND VOICE/DATA CIRCUITS IN UNDERGROUND 3/4" SCH 80 PVC CONDUITS BETWEEN INVERTER ROOM AND ELECTRICAL ROOM 106.
2. FLOOR BOX, MULTI-SERVICE. REFER TO POWER PLANS FOR BOX TYPE AND REQUIREMENTS. INSTALL 1" FROM EACH FLOOR BOX DATA COMPARTMENT TO "COMM BOX" IN ELECTRICAL 107. INSTALL 1-1/4" FROM EACH FLOOR BOX A/V COMPARTMENT TO "A/V" BOX IN ELECTRICAL 107. TWO NORTHERNMOST AND TWO SOUTHERNMOST BOXES IN COURT MAY HAVE THEIR CONDUITS PASS THROUGH ONE BOX IN A "DAISY CHAIN" CONFIGURATION. TWO CENTER BOXES SHALL HAVE INDEPENDENT CONDUIT RUNS BACK TO COMM AND A/V BOXES. PROVIDE (1) CAT-6 CABLE BACK TO IDF/MDF.
3. 20" x 20" x 8" ENCLOSURE (TYP. OF 2). INSTALL (4) 2" EMT FROM EACH BOX UP TO MDF. FOLLOW SAME ROUTE AS COMM SERVICE CONDUITS. INSTALL (4) 2" EMT BETWEEN THE TWO ENCLOSURES. PROVIDE PULL STRINGS AND INSTALL PLASTIC BUSHINGS AT EACH CONDUIT TERMINATION.
4. PROVIDE "FIRE ALARM PANEL INSIDE" SIGN.
5. PULL STATIONS SHALL BE LOCATED WITHIN 5FT. OF EGRESS DOORS.
6. FLUSH-MOUNTED 4" x 4" x 2" BACKBOX FOR REMOTE GAME CLOCK SYSTEM. BASIS OF DESIGN: ELECTRO-MECH #LX7406, OWNER PROVIDED AND INSTALLED. PROVIDE 3/4" CONDUITS BETWEEN BACK BOXES AND 1" CONDUIT BACK TO COMM PULL BOX AS INDICATED. CONFIRM FINAL SHOT CLOCK LOCATION AND ELEVATIONS WITH OWNER PRIOR TO ROUGH-IN. ADDITIONALLY, STUB UP 3/4" EMT CONCEALED IN WALL TO ACCESSIBLE CEILING (NOT SHOWN); PROVIDE PULL STRINGS AND INSTALL PLASTIC BUSHINGS AT ALL CONDUIT TERMINATIONS.
7. INSTALL CONDUITS - TWO 1-1/2" EA. FROM A/V AND COMM BOXES, STUBBED UP 6" ABOVE FINISHED FLOOR AT A/V CLOSET. INSTALL TWO 1-1/2" THROUGH CEILING STUBBED UP TO 1" ABOVE FLOOR IN A/V CONTROL AREA ABOVE.
8. PROVIDE OUTLET FOR POE-BASED INTERCOM AND CLOCK UNIT: 4" x 4" x 2" BACKBOX AND SINGLE CAT-6 CABLE BACK TO IDF/MDF. BASIS OF DESIGN: ALGO #8410 IP DISPLAY UNIT, OWNER PROVIDED AND INSTALLED. CAREFULLY LOCATE BACK-BOX SO THAT UNIT WILL HAVE SUFFICIENT SPACE ON EITHER SIDE.
9. PROVIDE RECTANGULAR, RATED PENETRATION ASSEMBLY, SIMILAR TO XXX, WHERE CABLE TRAYS OR OTHER SYSTEMS PATHWAYS PENETRATE RATED WALLS - TYPICAL.
10. ROUTE CONDUITS FOR DISPLAY/SCOREBOARD DOWN TO RESPECTIVE COMM AND A/V BOXES IN ELECTRICAL 107.
11. PROVIDE FIRE ALARM RELAY ADJACENT TO SWITCHBOARD FOR ELEVATOR CIRCUIT BREAKER SHUNT TRIP ACTIVATION.



2 COMM CONDUIT RISER
N.T.S.

PLAN NORTH
TRUE NORTH
0 4" 8" 16" 24"
1/8" = 1'-0"

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DCM FINAL SUBMITTAL | 10.18.24

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201 45th STREET NE.
FORT PAYNE, AL 35967

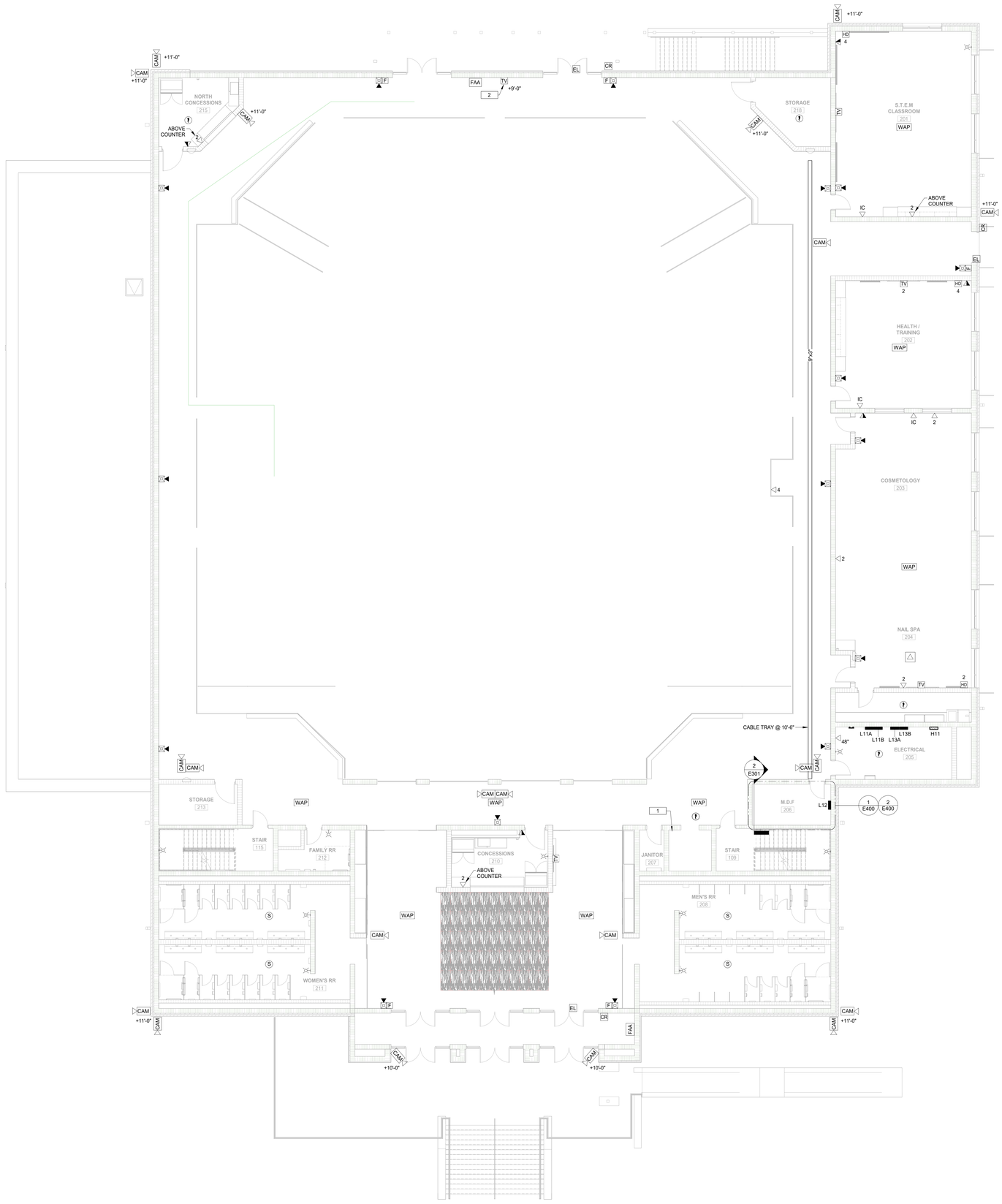
DCM # 20240548
GMC AHUN230009

A.B.A. 11/14/2024 ENGINEER JOHN DANIELSON JR.

LOWER LEVEL - SYSTEMS PLAN

E301

11/14/2024 4:20:32 PM TEMPLATE VERSION: 2022.1



1 MAIN LEVEL SYSTEMS PLAN
1/8" = 1'-0"

SYSTEMS GENERAL NOTES:

A. FIRE ALARM DEVICES, LIGHT SWITCHES, DOOR CONTROLS, AND OTHER DEVICES THAT OCCUPANTS WILL INTERACT WITH SHALL COMPLY WITH THE ARCHITECTURAL BARRIERS ACT.

B. FOR DOORS WITH ACCESS CONTROL FEATURES INDICATED: INSTALL BACKBOX AT 46" FOR CARD READER AND 1" CONDUIT TO BOX ABOVE CEILING. INSTALL 1/2" OR LARGER CONDUIT FROM STRIKE BOX TO ABOVE CEILING BOX - COORDINATE IN-FRAME BOX AND CONDUIT REQUIREMENTS WITH APPROVED DOOR PACKAGE AND ACCESS CONTROL VENDOR.

C. EXTERIOR CAMERAS: PROVIDE BACK-BOX AND 1" CONDUIT TO INTERIOR ABOVE-CEILING SPACE. INSTALL PULL STRING AND GASKETED BLANK COVER. SEAL CONDUITS WITH A REMOVABLE, MOISTURE-RESISTANT PLUG OR SIMILAR.

D. CABLING CONCEALED ABOVE CEILING SHALL BE PLENUM RATED.

E. EXPOSED CONDUITS IN GYMNASIUM SHALL BE EMT OR RIGID STEEL CONDUIT.

F. FIRE ALARM CIRCUITS CONCEALED IN WALLS, INACCESSIBLE CEILINGS, OR EXPOSED SHALL BE INSTALLED IN EMT. OPEN WIRING PERMITTED ONLY ABOVE DROP CEILINGS, SUPPORTED AS INDICATED IN PROJECT DOCUMENTS.

G. ELECTRIFIED EGRESS DOORS MUST BE UNLOCKED BY THE BUILDING'S FIRE ALARM OR SPRINKLER SYSTEM. ONCE UNLOCKED, THE DOORS MUST STAY UNLOCKED UNTIL THE FIRE ALARM SYSTEM IS RESET PER IFC SECTION 1010.2.12 (5-6).

H. PULL STATIONS SHALL BE LOCATED WITHIN 5FT. OF EGRESS DOORS.

I. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF TELEVISIONS, DISPLAYS, SMART BOARDS, ETC. COORDINATE HEIGHT OF IN-WALL TV BOXES SO THAT BOX AND CABLING WILL BE HIDDEN AFTER FINAL INSTALLATION.

J. COORDINATE FINAL LOCATION OF TEACHING STATIONS/DESKS WITH OWNER PRIOR TO ROUGH-IN OF POWER AND SYSTEMS OUTLETS, SUCH AS "HD" OUTLETS, INTENDED FOR CONNECTION OF MEDIA FOR ROOM DISPLAY.

SYSTEMS KEYED NOTES:

1. PROVIDE (2) DATA CABLES IN 3/4" EMT FROM ELEVATOR CONTROLLER TO MDF FOR CAB EMERGENCY COMMUNICATION AND IN-CAB CARD READER. PROVIDE WIRING IN EMT FROM ELEVATOR CONTROLLER TO FACP FOR RECALL FUNCTIONS.
2. ROUTE CONDUITS FOR DISPLAY/SCOREBOARD UP TO TRUSS LEVEL - REFER TO UPPER LEVEL PLAN FOR CONTINUATION.

PLAN NORTH
TRUE NORTH
0 4' 8' 16' 24'
1/8" = 1'-0"

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FORT PAYNE, AL 35967

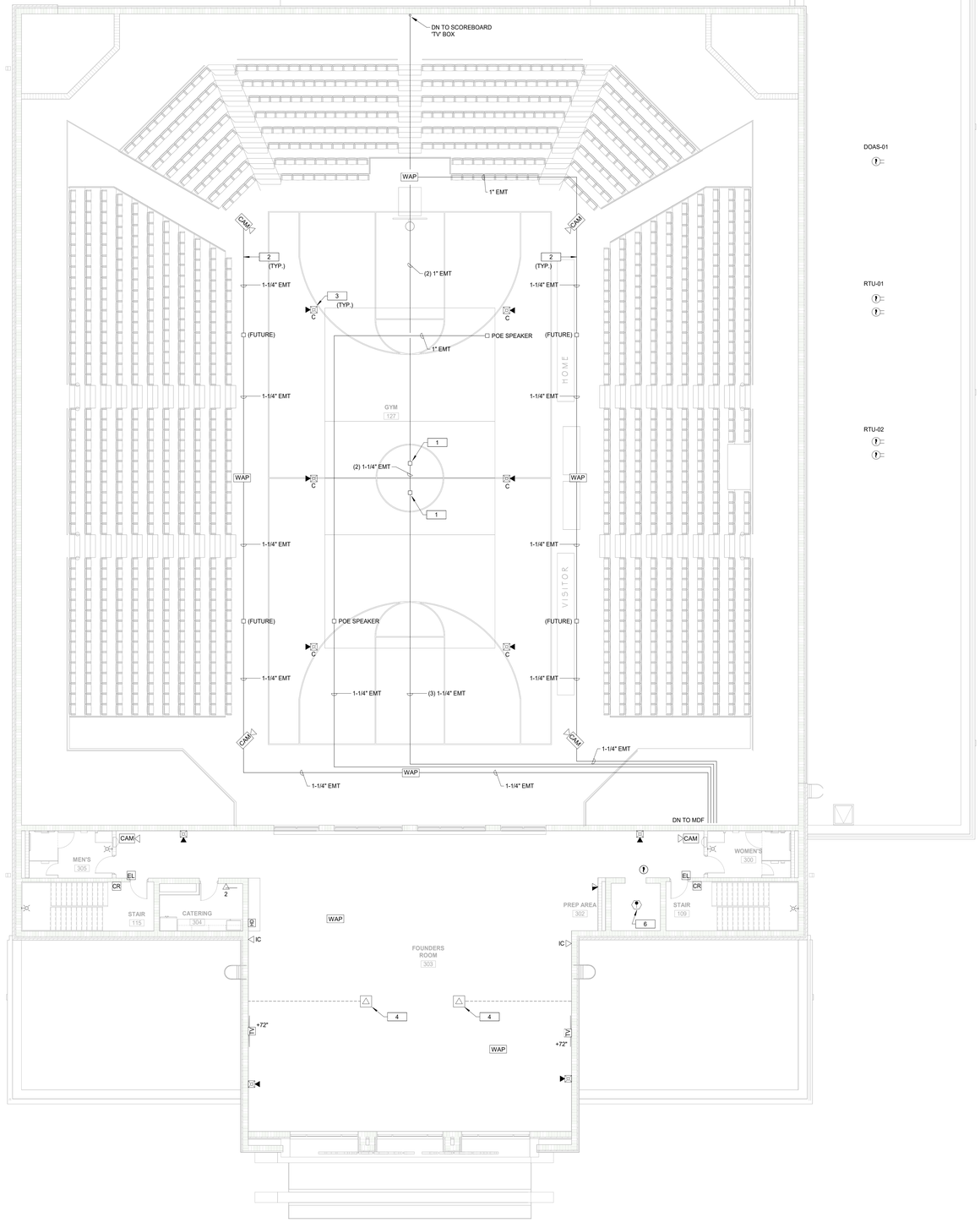
DCM # 20240548
GMC AHUN230009

LABAA
11/14/2024
ENGINEER
JOHN DANIELSON JR.

MAIN LEVEL - SYSTEMS PLAN

E302

11/14/2024 4:20:39 PM TEMPLATE VERSION: 2022.1



1 UPPER LEVEL SYSTEMS PLAN
1/8" = 1'-0"

DOAS-01

RTU-01

RTU-02

SYSTEMS GENERAL NOTES:

A. FIRE ALARM DEVICES, LIGHT SWITCHES, DOOR CONTROLS, AND OTHER DEVICES THAT OCCUPANTS WILL INTERACT WITH SHALL COMPLY WITH THE ARCHITECTURAL BARRIERS ACT.

B. FOR DOORS WITH ACCESS CONTROL FEATURES INDICATED: INSTALL BACKBOX AT 46" FOR CARD READER AND 1" CONDUIT TO BOX ABOVE CEILING. INSTALL 1/2" OR LARGER CONDUIT FROM STRIKE BOX TO ABOVE CEILING BOX - COORDINATE IN-FRAME BOX AND CONDUIT REQUIREMENTS WITH APPROVED DOOR PACKAGE AND ACCESS CONTROL VENDOR.

C. EXTERIOR CAMERAS: PROVIDE BACK-BOX AND 1" CONDUIT TO INTERIOR ABOVE-CEILING SPACE. INSTALL PULL STRING AND GASKETED BLANK COVER. SEAL CONDUITS WITH A REMOVABLE, MOISTURE-RESISTANT PLUG OR SIMILAR.

D. CABLING CONCEALED ABOVE CEILING SHALL BE PLENUM RATED.

E. EXPOSED CONDUITS IN GYMNASIUM SHALL BE EMT OR RIGID STEEL CONDUIT.

F. FIRE ALARM CIRCUITS CONCEALED IN WALLS, INACCESSIBLE CEILINGS, OR EXPOSED SHALL BE INSTALLED IN EMT. OPEN WIRING PERMITTED ONLY ABOVE DROP CEILINGS, SUPPORTED AS INDICATED IN PROJECT DOCUMENTS.

G. ELECTRIFIED EGRESS DOORS MUST BE UNLOCKED BY THE BUILDING'S FIRE ALARM OR SPRINKLER SYSTEM. ONCE UNLOCKED, THE DOORS MUST STAY UNLOCKED UNTIL THE FIRE ALARM SYSTEM IS RESET PER IFC SECTION 1010.2.12 (5-6).

H. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF TELEVISIONS, DISPLAYS, SMART BOARDS, ETC. COORDINATE HEIGHT OF IN-WALL TV BOXES SO THAT BOX AND CABLING WILL BE HIDDEN AFTER FINAL INSTALLATION.

I. COORDINATE FINAL LOCATION OF TEACHING STATIONS/DESKS WITH OWNER PRIOR TO ROUGH-IN OF POWER AND SYSTEMS OUTLETS, SUCH AS "HD" OUTLETS, INTENDED FOR CONNECTION OF MEDIA FOR ROOM DISPLAY.

SYSTEMS KEYED NOTES:

1. PROVIDE 8" x 8" x 4" STEEL ENCLOSURE WITH HINGED COVER AND RACEWAYS AS INDICATED FOR CENTER HUNG DISPLAY AND FUTURE AUDIO SYSTEMS. INSTALL BOXES AND RACEWAYS ABOVE BOTTOM CHORD OF TRUSS. PAINT AS DIRECTED BY ARCHITECT.
2. PROVIDE 4-11/16" x 2-1/8" BACKBOXES AND RACEWAYS FOR WIRELESS ACCESS POINTS AND CAMERAS, INCLUDING BOXES FOR FUTURE DEVICES AS INDICATED. INSTALL BOXES AND RACEWAYS ABOVE BOTTOM CHORD OF TRUSS. PAINT AS DIRECTED BY ARCHITECT.
3. INSTALL DOWNWARD FACING SPEAKER STROBES AT BOTTOM OF TRUSS CHORD. ROUTE CONDUITS ABOVE BOTTOM CHORD.
4. FLOOR BOX, MULTI-SERVICE. REFER TO POWER PLANS FOR BOX TYPE AND REQUIREMENTS. INSTALL 1" FROM EACH FLOOR BOX DATA COMPARTMENT TO WALL AND UP TO ACCESSIBLE CEILING. INSTALL 1-1/4" FROM EACH FLOOR BOX A/V COMPARTMENT TO WALL AND UP TO ACCESSIBLE CEILING. EQUIP WITH PULL STRINGS AND PLASTIC BUSHINGS.
5. PROVIDE 4-11/16" x 2-1/8" BACKBOXES AND RACEWAYS FOR WIRELESS ACCESS POINTS AND CAMERAS, INCLUDING BOXES FOR FUTURE DEVICES AS INDICATED. INSTALL BOXES AND RACEWAYS ABOVE BOTTOM CHORD OF TRUSS. PAINT AS DIRECTED BY ARCHITECT.
6. PROVIDE HEAT DETECTOR ONLY IF SPRINKLER INSTALLED AT TOP OF HOISTWAY. DETECTOR TO ACTIVATE 20 DEGREES BELOW SPRINKLER HEAD RATING.

PLAN NORTH

TRUE NORTH

0 4" 8" 16" 24"
1/8" = 1'-0"

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DCM # 20240548
GMC AHUN230009

ALABAMA
11/14/2024
ENGINEER
JOHN DANIELSON JR.

UPPER LEVEL - SYSTEMS PLAN

E303

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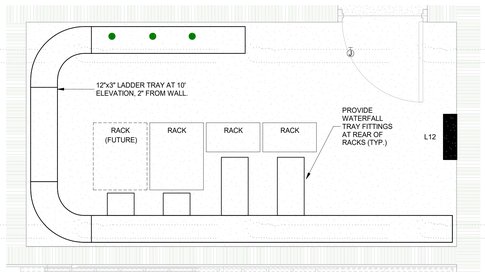
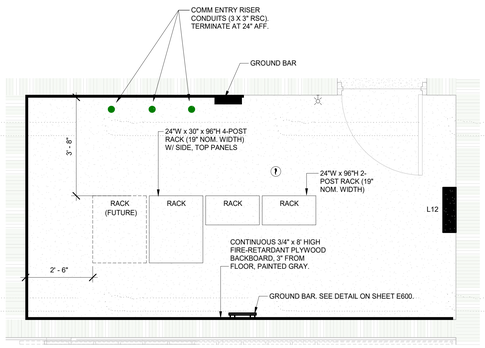
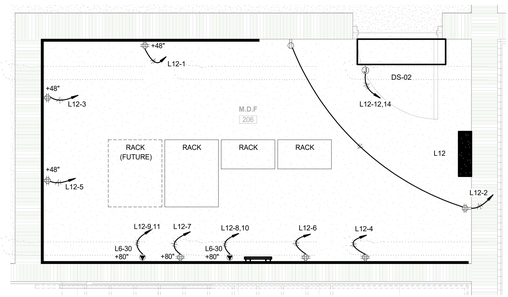


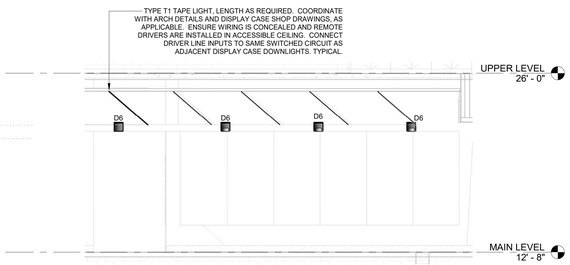
1 ENLARGED MDF CABLE TRAY PLAN
1/2" = 1'-0"



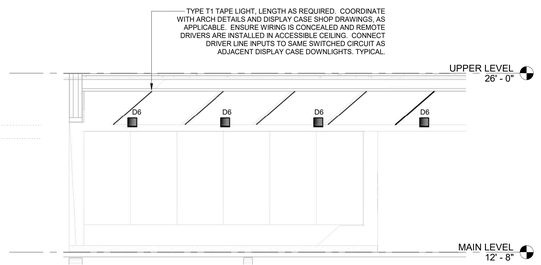
2 ENLARGED MDF SYSTEMS PLAN
1/2" = 1'-0"



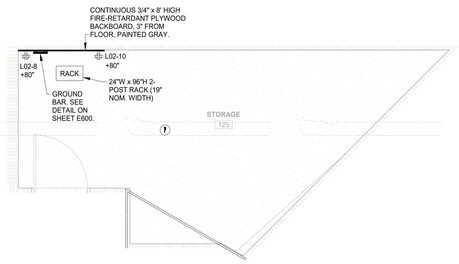
3 ENLARGED MDF POWER PLAN
1/2" = 1'-0"



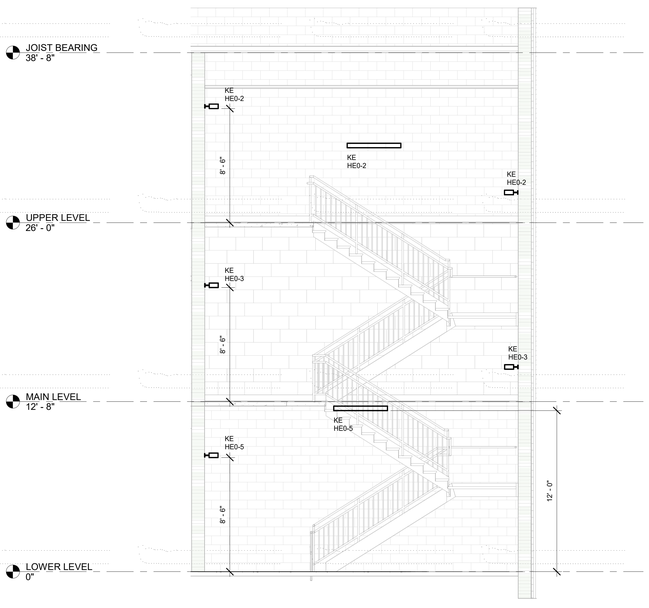
4 WEST TROPHY CASE LIGHTING SECTION
1/4" = 1'-0"



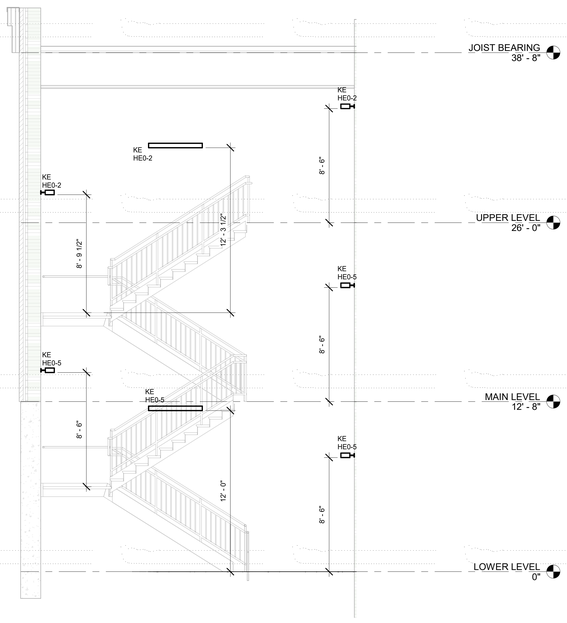
5 EAST TROPHY CASE LIGHTING SECTION1
1/4" = 1'-0"



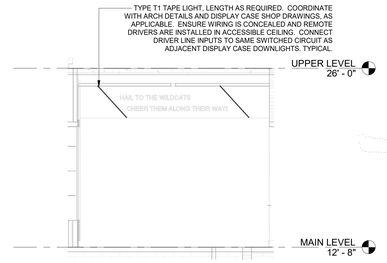
6 LOWER LEVEL IDF (RM 125)
1/4" = 1'-0"



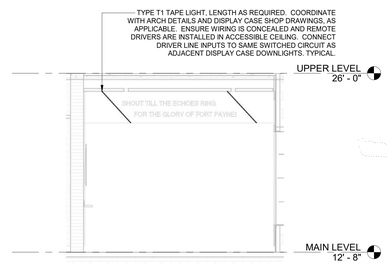
7 STAIR 115 SECTION
1/4" = 1'-0"



8 STAIR 109 SECTION
1/4" = 1'-0"



9 LOBBY - NORTH VIEW 2
1/4" = 1'-0"



10 LOBBY - NORTH VIEW 1
1/4" = 1'-0"

PLAN NORTH
TRUE NORTH

1/2" = 1'-0" (0, 1', 2', 4', 6')
1/4" = 1'-0" (0, 2', 4', 8', 12')

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA 11/14/2024 ENGINEER JOHN DANIELSON JR.

ENLARGED ELECTRICAL PLANS

E400

11/14/2024 4:22:00 PM TEMPLATE VERSION: 2022.1

3-WIRE FEEDER SCHEDULE (MIN. SIZES INDICATED)		
TAG	3-WIRE CU FEEDERS	3-WIRE AL FEEDERS
30.3	(3) #10, #10 GND; 3/4"C	-- USE CU FEEDERS --
50.3	(3) #8, #10 GND; 3/4"C	-- USE CU FEEDERS --
60.3	(3) #6, #10 GND; 3/4"C	-- USE CU FEEDERS --
70.3	(3) #4, #8 GND; 1"C	-- USE CU FEEDERS --
80.3	(3) #4, #8 GND; 1"C	-- USE CU FEEDERS --
90.3	(3) #3, #8 GND; 1"C	-- USE CU FEEDERS --
100.3	(3) #3, #8 GND; 1"C	(3) #1, #6 GND; 1-1/4"C
110.3	(3) #2, #6 GND; 1-1/4"C	(3) #1/0, #4 GND; 1-1/2"C
125.3	(3) #1, #6 GND; 1-1/4"C	(3) #2/0, #4 GND; 1-1/2"C
150.3	(3) #1/0, #6 GND; 1-1/2"C	(3) #3/0, #4 GND; 2"C
175.3	(3) #2/0, #6 GND; 1-1/2"C	(3) #4/0, #4 GND; 2"C
200.3	(3) #3/0, #4 GND; 2"C	(3) #250, #4 GND; 2-1/2"C
225.3	(3) #4/0, #4 GND; 2"C	(3) #300, #2 GND; 2-1/2"C
250.3	(3) #250 KCMIL, #4 GND; 2-1/2"C	(3) #350, #2 GND; 2-1/2"C
300.3	(3) #350 KCMIL, #4 GND; 2-1/2"C	(3) #500, #2 GND; 3"C
350.3	(3) #400 KCMIL, #3 GND; 3"C	(3) #750, #1 GND; 3-1/2"C
400.3	(3) #500 KCMIL, #3 GND; 3"C	(2) SETS: (3) #250 KCMIL, #1 GND; 2-1/2"C

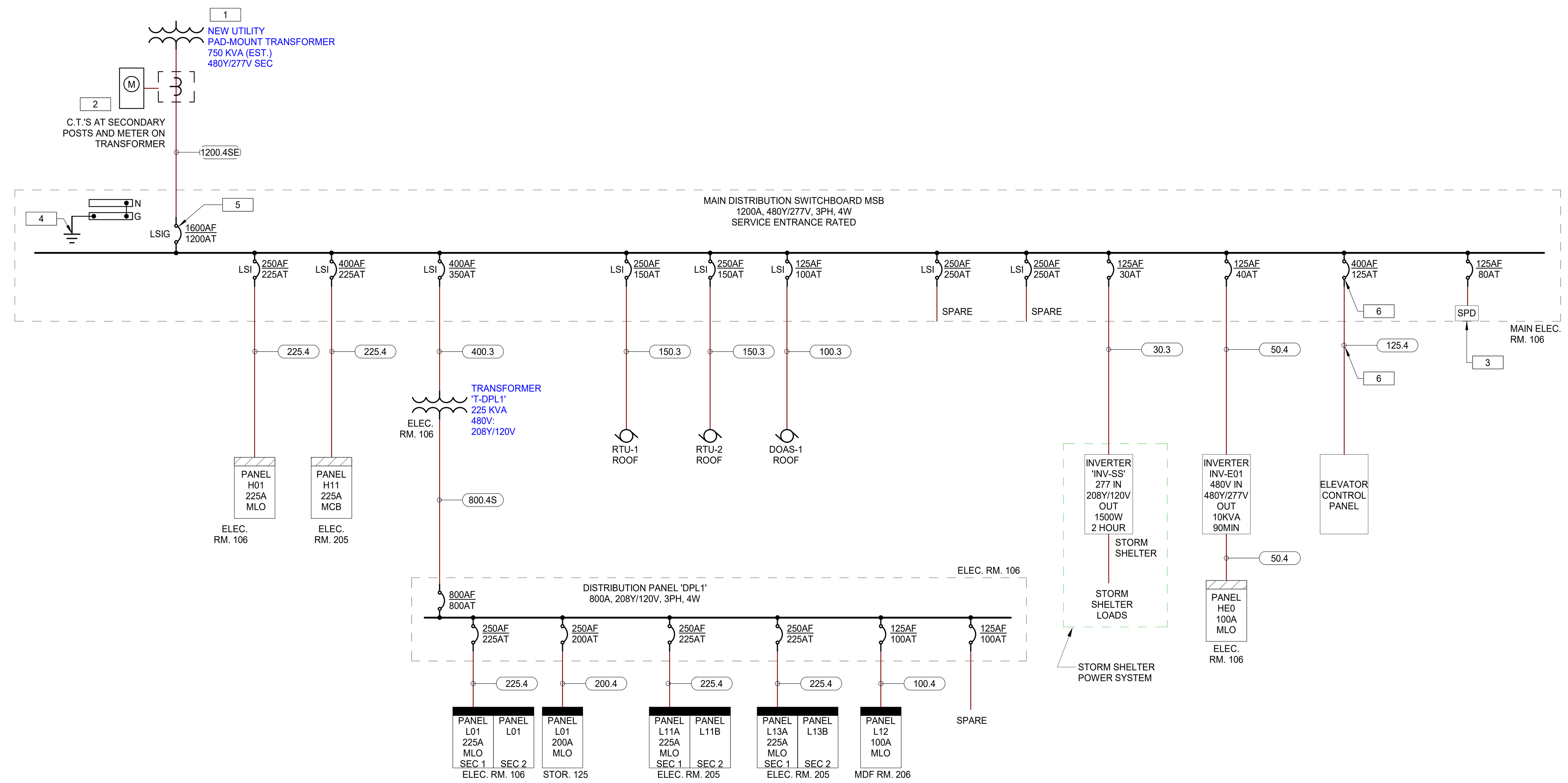
4-WIRE FEEDER SCHEDULE (MIN. SIZES INDICATED)		
TAG	4-WIRE CU FEEDERS	4-WIRE AL FEEDERS
40.4	(4) #8, #10 GND; 3/4"C	-- USE CU FEEDERS --
50.4	(4) #8, #10 GND; 3/4"C	-- USE CU FEEDERS --
60.4	(4) #6, #10 GND; 1"C	-- USE CU FEEDERS --
70.4	(4) #4, #8 GND; 1-1/4"C	-- USE CU FEEDERS --
80.4	(4) #4, #8 GND; 1-1/4"C	-- USE CU FEEDERS --
90.4	(4) #3, #8 GND; 1-1/4"C	-- USE CU FEEDERS --
100.4	(4) #3, #8 GND; 1-1/4"C	(4) #1, #6 GND; 1-1/2"C
110.4	(4) #2, #6 GND; 1-1/4"C	(4) #1/0, #4 GND; 1-1/2"C
125.4	(4) #1, #6 GND; 1-1/2"C	(4) #2/0, #4 GND; 2"C
150.4	(4) #1/0, #6 GND; 1-1/2"C	(4) #3/0, #4 GND; 2"C
175.4	(4) #2/0, #6 GND; 2"C	(4) #4/0, #4 GND; 2-1/2"C
200.4	(4) #3/0, #4 GND; 2"C	(4) 250 KCMIL, #4 GND; 2-1/2"C
225.4	(4) #4/0, #4 GND; 2-1/2"C	(4) 300 KCMIL, #2 GND; 3"C
250.4	(4) 250 KCMIL, #4 GND; 2-1/2"C	(4) 350 KCMIL, #2 GND; 3"C
300.4	(4) 350 KCMIL, #4 GND; 3"C	(4) 500 KCMIL, #2 GND; 3"C
350.4	(4) 400 KCMIL, #3 GND; 3"C	(4) 700 KCMIL, #1 GND; 4"C
400.4	(4) 500 KCMIL, #3 GND; 3"C	2 SETS: (4) 250 KCMIL, #1 GND; 2-1/2"C
500.4	2 SETS: (4) 250 KCMIL, #2 GND; 2-1/2"C	2 SETS: (4) 350 KCMIL, #1/0 GND; 3"C
600.4	2 SETS: (4) 350 KCMIL, #1 GND; 3"C	2 SETS: (4) 500 KCMIL, #2/0 GND; 3-1/2"C
800.4	2 SETS: (4) 600 KCMIL, #1/0 GND; 3-1/2"C	3 SETS: (4) 400 KCMIL, #3/0 GND; 3"C
900.4	2 SETS: (4) 750 KCMIL, #2/0 GND; 4"C	3 SETS: (4) 500 KCMIL, #4/0 GND; 3-1/2"C
1000.4	3 SETS: (4) 400 KCMIL, #2/0 GND; 3"C	3 SETS: (4) 600 KCMIL, #4/0 GND; 3-1/2"C
1200.4	3 SETS: (4) 600 KCMIL, #3/0 GND; 3-1/2"C	4 SETS: (4) 500 KCMIL, 250 KCMIL GND; 3-1/2"C
1600.4	4 SETS: (4) 600 KCMIL, #4/0 GND; 3-1/2"C	5 SETS: (4) 600 KCMIL, 350 KCMIL GND; 4"C
2000.4	5 SETS: (4) 600 KCMIL, 250 KCMIL GND; 4"C	-- USE CU FEEDERS --
2500.4	6 SETS: (4) 600 KCMIL, 350 KCMIL GND; 4"C	-- USE CU FEEDERS --
3000.4	7 SETS: (4) 750 KCMIL, 400 KCMIL GND; 4"C	-- USE CU FEEDERS --
3200.4	7 SETS: (4) 750 KCMIL, 500 KCMIL GND; 4"C	-- USE CU FEEDERS --
4000.4	9 SETS: (4) 750 KCMIL, 500 KCMIL GND; 4"C	-- USE CU FEEDERS --

SERVICE ENTRANCE CONDUCTORS (MIN. SIZES INDICATED)		
TAG	3- AND 4-WIRE CU SERVICES	3- AND 4-WIRE AL SERVICES
200.3SE	(3) #3/0; 2"C	(3) 250 KCMIL; 2"C
200.4SE	(4) #3/0; 2"C	(4) 250 KCMIL; 2-1/2"C
300.3SE	(3) 350 KCMIL; 2-1/2"C	(3) 500 KCMIL; 3"C
300.4SE	(4) 350 KCMIL; 3"C	(4) 500 KCMIL; 3"C
400.3SE	(3) 500 KCMIL; 3"C	2 SETS: (3) 250 KCMIL; 2"C
400.4SE	(4) 500 KCMIL; 3"C	2 SETS: (4) 250 KCMIL; 2-1/2"C
600.4SE	2 SETS: (4) 350 KCMIL; 3"C	2 SETS: (4) 500 KCMIL; 3"C
800.4SE	2 SETS: (4) 600 KCMIL; 3-1/2"C	3 SETS: (4) 400 KCMIL; 3"C
1000.4SE	3 SETS: (4) 400 KCMIL; 3"C	3 SETS: (4) 500 KCMIL; 3"C
1200.4SE	3 SETS: (4) 600 KCMIL; 3-1/2"C	4 SETS: (4) 500 KCMIL; 3"C
1600.4SE	4 SETS: (4) 600 KCMIL; 3-1/2"C	5 SETS: (4) 600 KCMIL; 3-1/2"C
2000.4SE	5 SETS: (4) 600 KCMIL; 4"C	-- USE CU FEEDERS --
2500.4SE	6 SETS: (4) 600 KCMIL; 4"C	-- USE CU FEEDERS --
3000.4SE	7 SETS: (4) 750 KCMIL; 4"C	-- USE CU FEEDERS --
3200.4SE	7 SETS: (4) 750 KCMIL; 4"C	-- USE CU FEEDERS --
4000.4SE	9 SETS: (4) 750 KCMIL; 4"C	-- USE CU FEEDERS --

SEPARATELY DERIVED FEEDERS (MIN. SIZES INDICATED)		
TAG	CU FEEDERS	AL FEEDERS
100.4S	(4) #3; #8 GND; 1-1/4"C	(4) #1, #6 GND; 1-1/2"C
150.4S	(4) #1/0, #6 GND; 1-1/2"C	(4) #3/0, #4 GND; 2"C
250.4S	(4) 250 KCMIL, #2 GND; 2-1/2"C	(4) 350 KCMIL, #1/0 GND; 3"C
400.4S	(4) 600 KCMIL, #1/0 GND; 3-1/2	2 SETS: (4) 250 KCMIL, #1/0 GND; 2-1/2"C
500.4S	2 SETS: (4) 250 KCMIL, #1/0 GND; 2-1/2"C	2 SETS: (4) 350 KCMIL, #3/0 GND; 3"C
800.4S	2 SETS: (4) 600 KCMIL, #3/0 GND; 3-1/2"C	3 SETS: (4) 400 KCMIL, #4/0 GND; 3"C

OVERSIZED/SPECIALTY FEEDERS (MIN. SIZES INDICATED)		
TAG	CU FEEDERS	AL FEEDERS
100.4X	(4) #1; #6 GND; 1-1/2"C	-
150.4X	(4) #2/0, #4 GND; 2"C	-
250.4X	(4) 350 KCMIL, #1 GND; 3"C	-
400.4X	(4) 600 KCMIL, #1/0 GND; 3-1/2	-
500.4X	2 SETS: (4) 350 KCMIL, #2/0 GND; 3"C	-
800.4X	2 SETS: (4) 600 KCMIL, #3/0 GND; 3-1/2"C	-

NOTES:
1. TABLES ASSUME EQUIPMENT IS MARKED FOR 75C. IF UNMARKED, COMPLY WITH NEC 110.14.
2. TABLES ASSUME TYPICAL FIELD INSTALLATION SITUATIONS, USING EMT, RMC, OR SCH. 40 PVC. TABLES DO NOT ACCOUNT FOR UNUSUAL AND MORE RESTRICTIVE CONDUITS, SOLAR HEATING OR OTHER HIGH AMBIENT TEMPERATURES, DUCTBANK HEATING, OR OTHER CONDITIONS THAT MAY REQUIRE DERATING CONDUCTOR AMPACITY.
3. SEPARATELY DERIVED FEEDERS ARE ASSUMED TO ORIGINATE IN TRANSFORMERS. TAP CONDUCTORS AND SECONDARIES: COMPLY WITH NEC 240.21.



1 ONE LINE DIAGRAM
N.T.S.

ONE LINE DIAGRAM GENERAL NOTES:

A. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR PANELBOARDS AND SWITCHBOARDS.

B. ALL CONDUCTORS INDICATED ARE COPPER UNLESS OTHERWISE NOTED.

C. INCREASE SIZE OF FEEDER CONDUCTORS, AND ASSOCIATED CONDUITS, AS REQUIRED TO LIMIT VOLTAGE DROP TO 2%.

D. CONTRACTOR SHALL OBTAIN CONTRIBUTING FAULT CURRENT FROM SERVING UTILITY COMPANY. CONTRACTOR SHALL VERIFY SWITCHBOARD AND PANELBOARD AIC RATINGS ARE APPROPRIATE FOR THE ACTUAL CONTRIBUTING FAULT CURRENT PRIOR TO ORDERING EQUIPMENT. CONTACT ENGINEER IF NEEDED ONCE UTILITY INFORMATION IS RECEIVED.

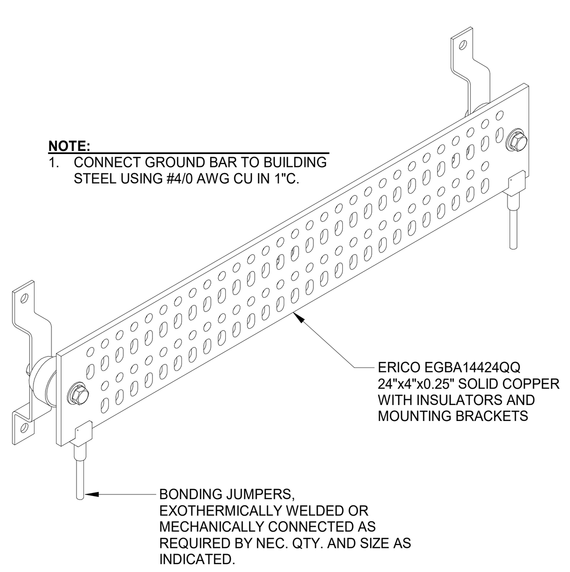
E. REFER TO PANEL SCHEDULES FOR FEEDERS NOT SHOWN ON SINGLE LINE DIAGRAM.

F. WIRE AMPACITY SIZE FOR 100A CIRCUITS AND BELOW SHALL BE BASED ON NEC TABLE 310.16, 60°C COLUMN FOR AMPACITY. WIRE AMPACITY SIZE FOR OVER 100A SHALL BE BASED ON NEC TABLE 310.16, 75°C COLUMN FOR AMPACITY.

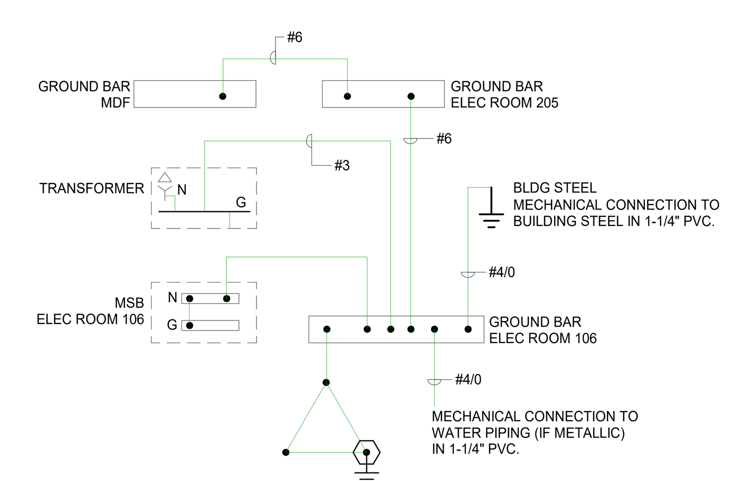
ONE LINE DIAGRAM KEYED NOTES:

1. NEW PAD MOUNT TRANSFORMER. RATINGS SHOWN ARE ASSUMED - CONFIRM ACTUAL SIZE/RATINGS TO BE INSTALLED WITH UTILITY.
2. INSTALL WIRING, CABINETS, CONDUITS, C.T.'S AND OTHER METERING EQUIPMENT IN ACCORDANCE WITH UTILITY COMPANY SERVICE STANDARDS. INSTALL 1" CONDUIT FROM METER ENCLOSURE TO BUILDING TTB FOR REMOTE METER READING SERVICE, UNLESS OTHERWISE DIRECTED BY UTILITY CO.
3. FOR SURGE PROTECTIVE DEVICES, PROVIDE CIRCUIT BREAKER AND WIRE SIZE AS RECOMMENDED BY MANUFACTURER. SPD CONDUCTORS SHALL BE AS SHORT AS POSSIBLE, LIMITING BENDS, WITH A MAXIMUM LENGTH OF 2 FEET.
4. REFER TO SERVICE GROUNDING DETAIL.
5. PROVIDE MAIN CIRCUIT BREAKER WITH AN ARC ENERGY REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATION TO TEMPORARILY OVERRIDE THE INSTANTANEOUS TRIP SETTINGS OF THE MAIN CIRCUIT BREAKER TO "NO INTENTIONAL DELAY" STATE IN COMPLIANCE WITH NEC 240.87(B)(3).
6. ELEVATOR CIRCUIT RATING ESTIMATED. PROVIDE FINAL CIRCUIT PROTECTION AND CONDUCTOR SIZE AS INDICATED IN FINAL ELEVATOR SHOP DRAWINGS.

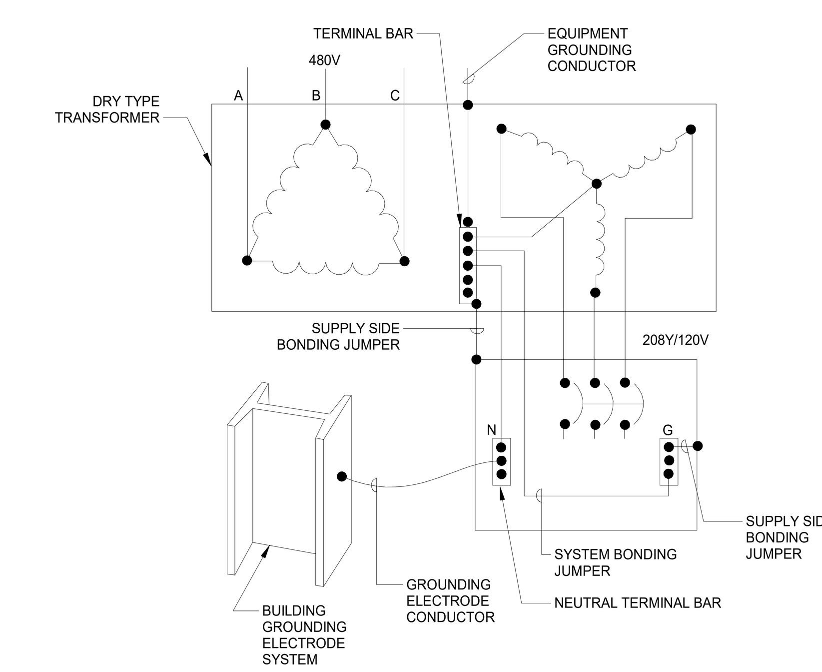
NOTE:
1. CONNECT GROUND BAR TO BUILDING STEEL USING #4/0 AWG CU IN 1"C.



6 TYPICAL GROUND BAR DETAIL
1/2" = 1'-0"

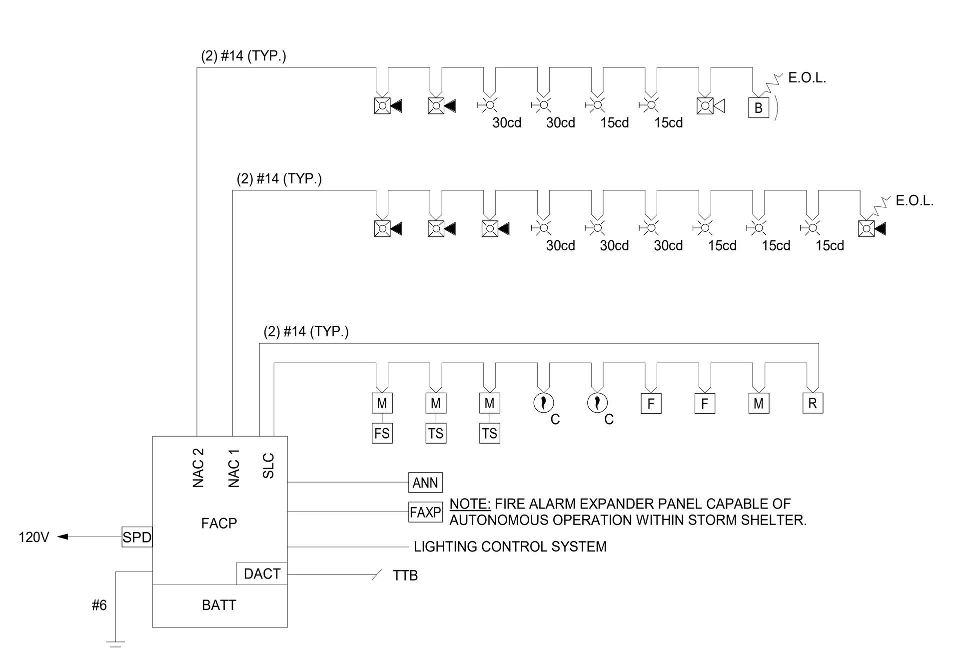


2 SERVICE GROUNDING DETAIL
N.T.S.



NOTES:
1. GROUNDING FOR SEPARATELY DERIVED SYSTEM IN WHICH GROUNDING ELECTRODE CONDUCTOR CONNECTION IS MADE AT THE FIRST SYSTEM DISCONNECTING MEANS.
2. SYSTEM BONDING JUMPER SIZED PER NEC 250.30(A)(1) AND TABLE 250.102(C)(1).
3. SUPPLY SIDE BONDING JUMPER SIZED PER NEC 250.30(A)(2), 250.102(C) AND TABLE 250.102(C)(1).
4. GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC 250.30(A)(5) AND TABLE 250.66.
5. EQUIPMENT BONDING JUMPER PROVIDED AS PART OF TRANSFORMER.

3 TRANSFORMER GROUNDING
N.T.S.



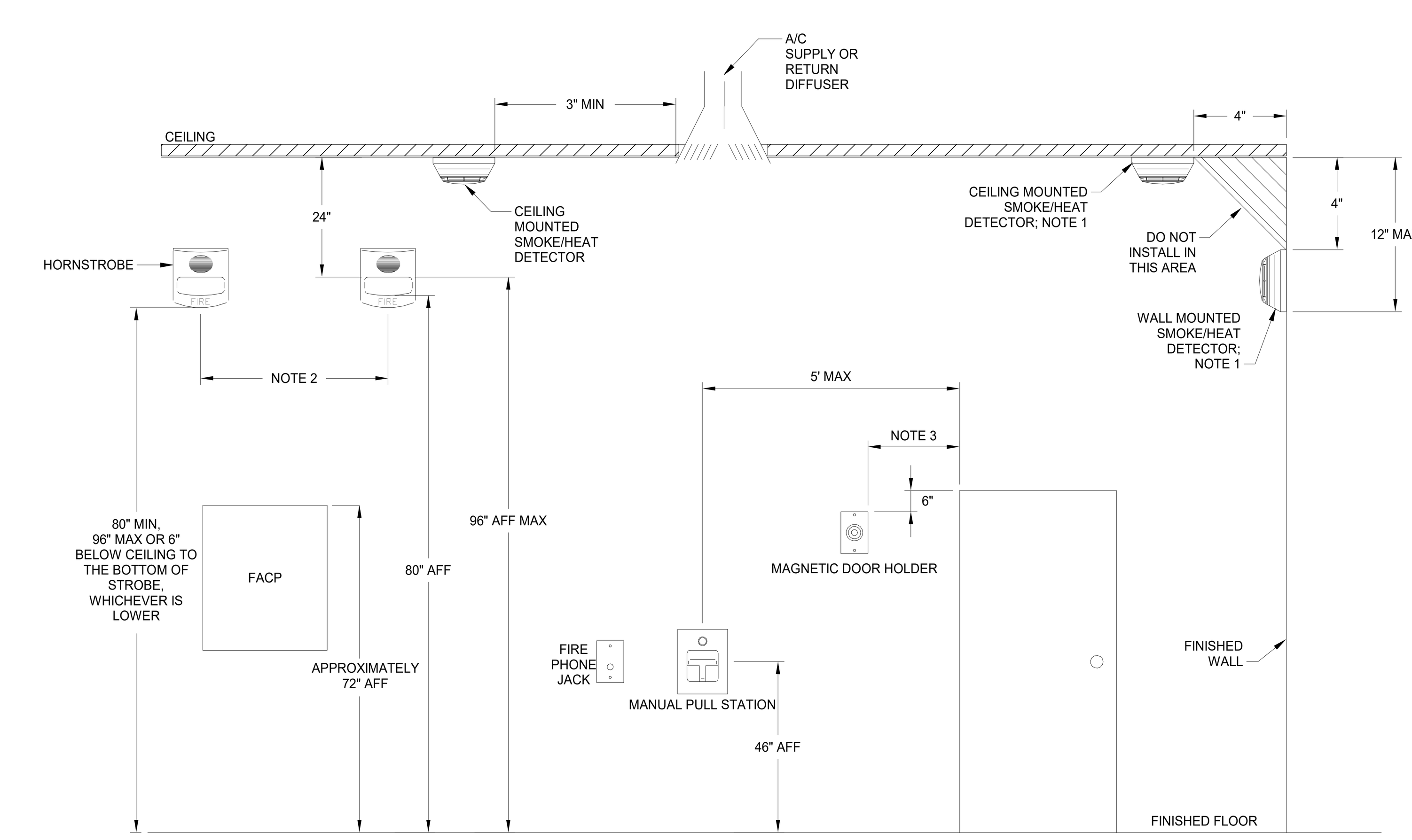
NOTES:
1. FACP TO BE SUPPLIED BY DEDICATED CIRCUIT WITH SURGE PROTECTION.
2. PROVIDE CABLING TO ANNUNCIATOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. LINE VOLTAGE POWER SUPPLY CIRCUIT(S), IF REQUIRED, SHALL NOT BE INSTALLED IN SAME CONDUITS WITH SIGNALING AND COMMUNICATION CIRCUITS.
3. TYPICAL, NOMINAL DEVICE CIRCUITING SHOWN. ACTUAL DEVICE CIRCUIT ARRANGEMENT SHALL BE INDICATED IN SHOP DRAWINGS BASED ON LAYOUTS SHOWN ON FLOOR PLANS AND VOLTAGE DROP CALCULATIONS.
4. AREAS CONTAINING MORE THAN TWO VISUAL NOTIFICATION APPLIANCES SHALL HAVE STROBES SYNCHRONIZED.
5. COORDINATE WIRING BETWEEN DACT AND TELEPHONE/COMMUNICATION SYSTEM WITH OWNER.

4 FIRE ALARM RISER
N.T.S.

SYSTEM OUTPUTS
A. ACTIVATE FIRE ALARM SIGNAL LED
B. ACTIVATE FIRE ALARM SIGNAL
C. ACTIVATE SUPERVISORY LED
D. ACTIVATE SUPERVISORY SIGNAL
E. ACTIVATE TROUBLE LED
F. ACTIVATE AUDIBLE TROUBLE SIGNAL
G. ACTIVATE ALL EVACUATION SIGNALS
H. TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION
I. TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION
J. TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION
K. ELEVATOR PRIMARY RECALL
L. ELEVATOR SECONDARY RECALL
M. ELEVATOR SHUNT TRIP
N. ELEVATOR TOP-HAT FLASH
O. SHUNT-TRIP BREAKERS SUPPLYING EQUIPMENT UNDER HOOD
P. CLOSE GAS VALVE SUPPLYING KITCHEN
Q. SHUNT-TRIP BREAKERS SUPPLYING HOOD MAKE-UP AIR

	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	MANUAL PULL STATIONS	X	X					X	X									
2	HEAT/SMOKE DETECTORS	X	X					X	X									
3	DUCT SMOKE DETECTORS			X	X					X								
4	WATERFLOW INDICATOR (FLOW SWITCH)	X	X					X	X									
5	SPRINKLER CONTROL VALVE (TAMPER SWITCH)			X	X					X								
6	ELEVATOR LOBBY SMOKE DETECTOR - FIRST FLOOR	X											X					
7	ELEVATOR LOBBY SMOKE DETECTOR - ALTERNATE FLOORS	X										X						
8	ELEVATOR SHAFT HEAT/SMOKE DETECTOR - ALTERNATE FLOORS	X													X			
9	FIRE ALARM AC POWER FAILURE					X	X				X							
10	SLC OR NAC CIRCUIT FAULT					X	X				X							
11	FIRE PUMP SIGNAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	KITCHEN HOOD SIGNAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	--																	
14	--																	
15	--																	

LEGEND:
"X" = INPUT/OUTPUT FUNCTION
"-" = INPUT NOT APPLICABLE



DEVICE MOUNTING HEIGHTS (PER NFPA 72)

NOTES:
1. REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT. NO WIRING DEVICES OR OUTLET BOXES SHALL BE MOUNTED BACK TO BACK.
2. SYNCHRONIZE MORE THAN 2 APPLIANCES IN ANY FIELD OF VIEW.
3. MAGNETIC DOOR HOLDER - POSITION 3" LESS THAN WIDTH OF DOOR.

5 FIRE ALARM DEVICE MOUNTING HEIGHT DETAIL
N.T.S.

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA ENGINEER JOHN DANILSON JR 11/14/2024

ELECTRICAL DIAGRAMS

E600

SWICHBOARD: MSB

Location: ELECTRICAL 106 **Supply From:** UTILITY **Mounting:** FLOOR **Enclosure:** NEMA 1
Volts: 480Y/277V **Phases:** 3 **Wires:** 4
A.I.C. Rating: 65 KAIC **Mains Type:** MAIN BREAKER **Mains Rating:** 1200 A **MCB Rating:** 1200 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	RTU-1 (ON ROOF)	3	250 A	150 A	120 kVA	
2	RTU-2 (ON ROOF)	3	250 A	150 A	120 kVA	
3	DOAS-1 (ON ROOF)	3	125 A	100 A	66 kVA	
4	T-DPL1	3	400 A	350 A	169.9 kVA	
5	PANEL H01	3	250 A	225 A	58.1 kVA	
6	ELEVATOR POWER (S)	3	400 A	125 A	80 kVA	SHUNT TRIP BREAKER
7	INV-E01	3	125 A	40 A	5.1 kVA	
8	INV-SS	1	125 A	30 A	0 kVA	
9	PANEL H11	3	400 A	225 A	59.5 kVA	
10	SPD	3	125 A	80 A	0 kVA	
11	SPARE	3	250 A	250 A	0 kVA	
12	SPARE	3	250 A	250 A	0 kVA	
				Total Conn. Load:	677.97 kVA	
				Total Amps:	815 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	158 kVA	100.00%	158 kVA		
HVAC	389.2 kVA	100.00%	389.2 kVA	TOTAL CONNECTED KVA	677.97 kVA
Motor	1.7 kVA	110.29%	1.88 kVA	TOTAL EST. DEMAND KVA	646.25 kVA
Other	0.36 kVA	100.00%	0.36 kVA	DEMAND W/ 25% SPARE	807.82 kVA
Receptacle	92.12 kVA	55.43%	51.06 kVA	TOTAL CONNECTED CURRENT	815 A
Lighting	37.61 kVA	125.00%	47.01 kVA	TOTAL DEMAND CURRENT	777 A
				DEMAND CURRENT W/ SPARE	972 A

Notes:
REFER TO ONE LINE DIAGRAM FOR CONDUCTOR AND CONDUIT SIZES.

PANEL: H01

LOCATION: ELECTRICAL 106 **SUPPLIED FROM:** MSB **MOUNTING:** SURFACE **ENCLOSURE TYPE:** TYPE 1
SYSTEM VOLTAGE: 480Y/277V **PHASES:** 3 **WIRES:** 4
A.I.C. RATING: 35 KAIC **MAINS TYPE:** MLO **MAINS RATING:** 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1					4 / 4							2	
	3	EWH-1	20 A	3	(3) #10, #10G, 3/4"C		4 / 4		(3) #10, #10G, 3/4"C	3	20 A	EWH-2	4	
	5							4 / 4					6	
	7	LIGHTING - LOWER LVL	20 A	1	(2) #10, #10G, 3/4"C	1.71 / 2.32			(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - LOWER LVL	8	
	9	LIGHTING - ML CORR	20 A	1	(2) #10, #10G, 3/4"C		0.25 / 1.48		(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - MAIN LVL	10	
	11	LIGHTING - LOWER LVL	20 A	1	(2) #10, #10G, 3/4"C			1.73 / 1.55	(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - MAIN LVL	12	
	13	LIGHTING - MAIN LVL	20 A	1	(2) #10, #10G, 3/4"C	0.87 / 1.6			(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - GYM FLOOR	14	
	15	LIGHTING - MAIN LVL	20 A	1	(2) #10, #10G, 3/4"C		1.1 / 2		(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - GYM FLOOR	16	
	17	LIGHTING - UPPER LVL	20 A	1	(2) #10, #10G, 3/4"C			1.7 / 2	(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - GYM FLOOR	18	
	19	LIGHTING - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C	1.8 / 2.4			(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - GYM FLOOR	20	
	21	LIGHTING - GYM RGBW	20 A	1	(2) #10, #10G, 3/4"C		2.4 / 1						22	
	23	LIGHTING - GYM RGBW	20 A	1	(2) #10, #10G, 3/4"C			2.4 / 1	(3) #10, #10G, 3/4"C	3	20 A	UH-1	24	
	25	LIGHTING - PARKING	20 A	1	(2) #10, #10G, 3/4"C	0.3 / 1							26	
	27	LIGHTING - PARKING	20 A	1	(2) #10, #10G, 3/4"C		1.16 / 0.21		(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - SITE	28	
	29	LIGHTING - SITE	20 A	1	(2) #10, #10G, 3/4"C			0.15 / 0.57	(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - BUILDING EXT	30	
	31	LIGHTING - EXTERIOR	20 A	1	(2) #8, #8G, 3/4"C	0.22 / 0.12			(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - ROOF, SERV	32	
	33	LIGHTING - EXTERIOR	20 A	1	(2) #10, #10G, 3/4"C		0.1 / 0.06		(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - ROOF, SERV	34	
	35	LIGHTING - LL CORRIDOR	20 A	1	(2) #10, #10G, 3/4"C			1.37 / 0.28	(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - EXT. CANOPY	36	
	37	LIGHTING - LOBBY CLG	20 A	1	(2) #12, #12G, 3/4"C	0 / 0				1	20 A	SPARE	38	
	39	SPARE	20 A	1			0 / 0			1	20 A	SPARE	40	
	41	SPARE	20 A	1				0 / 0		1	20 A	SPARE	42	
					TOTAL LOAD (KVA):	20.1	17.6	20.5						
					TOTAL CURRENT (AMPS):	74 A	63 A	75 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	27 kVA	100.00%	27 kVA		
Other	0 kVA	0.00%	0 kVA	TOTAL CONN. KVA	58.1 kVA
Lighting	31.56 kVA	125.00%	39.44 kVA	TOTAL EST. DEMAND KVA	66 kVA
				DEMAND W/ 25% SPARE	82.48 kVA
				TOTAL CONN. CURRENT	70 A
				TOTAL DEMAND CURRENT	79 A
				DEMAND CURRENT W/ SPARE	99 A

NOTES:

PANEL: H11

LOCATION: ELECTRICAL 205 **SUPPLIED FROM:** MSB **MOUNTING:** SURFACE **ENCLOSURE TYPE:** Type 1
SYSTEM VOLTAGE: 480Y/277V **PHASES:** 3 **WIRES:** 4
A.I.C. RATING: 35 KAIC **MAINS TYPE:** MCB **MAINS RATING:** 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1					4.33 / 3.33							2	
	3	OU-02 (ON ROOF)	20 A	3	(3) #10, #10G, 3/4"C		4.33 / 3.33		(3) #10, #10G, 3/4"C	3	15 A	OU-01 (ON ROOF)	4	
	5							4.33 / 3.33					6	
	7					5.83 / 3.33							8	
	9	OU-04 (ON ROOF)	25 A	3	(3) #10, #10G, 3/4"C		5.83 / 3.33		(3) #10, #10G, 3/4"C	3	15 A	OU-03 (ON ROOF)	10	
	11							5.83 / 3.33					12	
	13	SPACE	--	1		0 / 3							14	
	15	SPACE	--	1			0 / 3		(3) #10, #10G, 3/4"C	3	20 A	EWH-3	16	
	17	SPACE	--	1				0 / 3					18	
	19	SPACE	--	1		0 / 0				1	--	SPACE	20	
	21	SPACE	--	1			0 / 0			1	--	SPACE	22	
	23	SPACE	--	1				0 / 0		1	--	SPACE	24	
	25	SPACE	--	1		0 / 0				1	--	SPACE	26	
	27	SPACE	--	1			0 / 0			1	--	SPACE	28	
	29	SPACE	--	1				0 / 0		1	--	SPACE	30	
	31	SPACE	--	1		0 / 0				1	20 A	SPARE	32	
	33	SPACE	--	1			0 / 0			1	20 A	SPARE	34	
	35	SPACE	--	1				0 / 0		1	20 A	SPARE	36	
	37	SPACE	--	1		0 / 0				1	20 A	SPARE	38	
	39	SPACE	--	1			0 / 0			1	20 A	SPARE	40	
	41	SPACE	--	1				0 / 0		1	20 A	SPARE	42	
					TOTAL LOAD (KVA):	19.8	19.8	19.8						
					TOTAL CURRENT (AMPS):	72 A	72 A	72 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	9 kVA	100.00%	9 kVA		
HVAC	50.5 kVA	100.00%	50.5 kVA	TOTAL CONN. KVA	59.5 kVA
				TOTAL EST. DEMAND KVA	59.5 kVA
				DEMAND W/ 25% SPARE	74.38 kVA
				TOTAL CONN. CURRENT	72 A
				TOTAL DEMAND CURRENT	72 A
				DEMAND CURRENT W/ SPARE	89 A

NOTES:

PANEL: HE0

LOCATION: ELECTRICAL 106 **SUPPLIED FROM:** INV-E01 **MOUNTING:** RECESSED **ENCLOSURE TYPE:** TYPE 1
SYSTEM VOLTAGE: 480Y/277V **PHASES:** 3 **WIRES:** 4
A.I.C. RATING: 35 KAIC **MAINS TYPE:** MLO **MAINS RATING:** 100 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1	EM LTG - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C	0.36 / 0.5			(2) #10, #10G, 3/4"C	1	20 A	EM LTG - UPPER LVL	2	
	3	EM LTG - MAIN LVL	20 A	1	(2) #10, #10G, 3/4"C		0.75 / 0.98		(2) #10, #10G, 3/4"C	1	20 A	EM LTG - LOWER LVL	4	
	5	EM LTG - MAIN LVL	20 A	1	(2) #10, #10G, 3/4"C			1.32 / 0.33	(2) #10, #10G, 3/4"C	1	20 A	LIGHTING - EXTERIOR	6	
	7	SPACE	--	1		0 / 0.87			(2) #10, #10G, 3/4"C	1	20 A	EM LTG - LOWER LVL	8	
	9	SPACE	--	1			0 / 0			1	--	SPACE	10	
	11	SPACE	--	1				0 / 0		1	--	SPACE	12	
	13	SPACE	--	1		0 / 0				1	--	SPACE	14	
	15	SPACE	--	1			0 / 0			1	--	SPACE	16	
	17	SPARE	20 A	1				0 / 0		1	20 A	SPARE	18	
	19	SPARE	20 A	1		0 / 0				1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 / 0			1	20 A	SPARE	22	
	23	SPARE	20 A	1				0 / 0		1	20 A	SPARE	24	
					TOTAL LOAD (KVA):	1.7	1.7	1.6						
					TOTAL CURRENT (AMPS):	6 A	6 A	6 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Lighting	5.08 kVA	125.00%	6.36 kVA		
				TOTAL CONN. KVA	5.1 kVA
				TOTAL EST. DEMAND KVA	6.4 kVA
				DEMAND W/ 25% SPARE	7.94 kVA
				TOTAL CONN. CURRENT	6 A
				TOTAL DEMAND CURRENT	8 A
				DEMAND CURRENT W/ SPARE	10 A

NOTES:

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ISSUE	DATE
DCM FINAL SUBMITTAL	10.18.24

DRAWN BY: REA
CHECKED BY: JTD

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA ENGINEER JOHN DANILSON JR 11/14/2024

PANEL SCHEDULES

E700

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PANEL: DPL1

LOCATION: ELECTRICAL 106 | SUPPLIED FROM: T-DPL1 | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 35 KAIC | MAINS TYPE: MLO | MAINS RATING: 800 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1					16.8 / 14.8							2	
1	3	PANEL L01	225 A	3	-		20.5 / 15.2		-	3	225 A	PANEL L11A	4	1
	5							21.4 / 15.4					6	
	7					5.4 / 0							8	
1	9	PANEL L12	100 A	3	-		6 / 0			3	100 A	SPARE	10	
	11							4.9 / 0					12	
	13					17.6 / 0				1	--	SPACE	14	
1	15	PANEL L13	225 A	3	-		16.4 / 0			1	--	SPACE	16	
	17							15.6 / 0		1	--	SPACE	18	
	19	SPARE	20 A	1		0 / 0				1	--	SPACE	20	
	21	SPARE	20 A	1			0 / 0			1	--	SPACE	22	
	23	SPARE	20 A	1				0 / 0		1	--	SPACE	24	
	25	SPARE	20 A	1		0 / 0				1	--	SPACE	26	
	27	SPACE	--	1			0 / 0			1	--	SPACE	28	
	29	SPACE	--	1				0 / 0		1	--	SPACE	30	
	31	SPACE	--	1		0 / 0				1	--	SPACE	32	
	33	SPACE	--	1			0 / 0			1	--	SPACE	34	
	35	SPACE	--	1				0 / 0		1	--	SPACE	36	
	37	SPACE	--	1		0 / 0				1	--	SPACE	38	
	39	SPACE	--	1			0 / 0			1	--	SPACE	40	
	41	SPACE	--	1				0 / 0		1	--	SPACE	42	
					TOTAL LOAD (KVA):	54.5	58.1	57.2						
					TOTAL CURRENT (AMPS):	454 A	488 A	480 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	42 kVA	100.00%	42 kVA		
HVAC	32.7 kVA	100.00%	32.7 kVA	TOTAL CONN. KVA	169.9 kVA
Motor	1.7 kVA	110.29%	1.88 kVA	TOTAL EST. DEMAND KVA	129.2 kVA
Other	0.36 kVA	100.00%	0.36 kVA	DEMAND W/ 25% SPARE	161.56 kVA
Receptacle	92.12 kVA	55.43%	51.06 kVA	TOTAL CONN. CURRENT	472 A
Lighting	1 kVA	125.00%	1.25 kVA	TOTAL DEMAND CURRENT	359 A
				DEMAND CURRENT W/ SPARE	448 A

NOTES:
1. REFER TO ONE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES.

PANEL: L01 — SECTION 1

LOCATION: ELECTRICAL 106 | SUPPLIED FROM: DPL1 | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1	RECEPT - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C	0.18 / 0.72			(2) #8, #8G, 3/4"C	1	20 A	RECEPT - EXTERIOR	2	
	3	RECEPT - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C		0.18 / 0.36		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - GIRL COACH	4	
	5	RECEPT - CORRIDOR	20 A	1	(2) #12, #12G, 3/4"C			0.54 / 0					6	(G)
	7	OTHER	20 A	2		0 / 0.18			(2) #12, #12G, 3/4"C	1	20 A	ELEVATOR SUMP	8	
	9						0 / 0.18		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - ELEVATOR	10	
	11	RECEPT - REFEREE	20 A	1	(2) #10, #10G, 3/4"C			0.9 / 0.54	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - BOY LKR RM	12	
	13	RECEPT - EQ. STORAGE	20 A	1	(2) #12, #12G, 3/4"C	0.54 / 0.54			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - CORRIDOR	14	
1	15	FACP	20 A	1	(2) #12, #12G, 3/4"C		0.5 / 1.08		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - STOR, JAN	16	
	17	RECEPT - CORRIDOR	20 A	1	(2) #10, #10G, 3/4"C			0.54 / 0.18	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - ELEC RM.	18	
	19					0 / 0.72			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - WEIGHT RM	20	
(G)	21	RECEPT - WEIGHT EWC	20 A	1	(2) #8, #8G, 3/4"C		1.5 / 1.44		(2) #10, #10G, 3/4"C	1	20 A	RECEPT - TEAM RM	22	
	23	RECEPT - WEIGHT RM	20 A	1	(2) #8, #8G, 3/4"C			0.9 / 1.08	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - LKR, COACH	24	
	25	RECEPT - TRAINING RM	20 A	1	(2) #12, #12G, 3/4"C	0.54 / 1			(2) #10, #10G, 3/4"C	1	20 A	RECEPT - TRAINING RM	26	
(G)	27	RECEPT - EWC	20 A	1	(2) #12, #12G, 3/4"C		1.5 / 0.36		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - LAUNDRY RM	28	
	29	RECEPT - TRAINING RM	20 A	1	(2) #10, #10G, 3/4"C			1 / 1.4	(2) #8, #8G, 3/4"C	1	20 A	HAND DRYER	30	(G)
(G)	31	HAND DRYER	20 A	1	(2) #8, #8G, 3/4"C	1.4 / 1.08			(2) #8, #8G, 3/4"C	1	20 A	RECEPT - GIRL LOCKER	32	
(G)	33	HAND DRYER	20 A	1	(2) #8, #8G, 3/4"C		1.4 / 1.5		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - EWC	34	(G)
(G)	35	HAND DRYER	20 A	1	(2) #10, #10G, 3/4"C			1.4 / 0		1	20 A	SPARE	36	
(G)	37	HAND DRYER	20 A	1	(2) #10, #10G, 3/4"C	1.4 / 0				1	20 A	SPARE	38	
	39	SPARE	20 A	1			0 / 0			1	20 A	SPARE	40	
	41	SPARE	20 A	1				0 / 0		1	20 A	SPARE	42	

		A	B	C
THIS SECTION TOTAL:	Total KVA	8.3 kVA	10 kVA	8.48 kVA
	Total Amps	69 A	84 A	71 A
TOTAL CONNECTED TO FEED THROUGH LUGS SECTION:	Total KVA	8.46 kVA	10.54 kVA	12.88 kVA
	Total Amps	71 A	91 A	110 A
PANEL GRAND TOTAL:	Total KVA	16.76 kVA	20.54 kVA	21.36 kVA
	Total Amps	140 A	176 A	183 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	10.3 kVA	100.00%	10.3 kVA		
HVAC	10.2 kVA	100.00%	10.2 kVA	TOTAL CONN. KVA	58.7 kVA
Motor	0.3 kVA	125.00%	0.38 kVA	TOTAL EST. DEMAND KVA	44.8 kVA
Other	0 kVA	0.00%	0 kVA	DEMAND W/ 25% SPARE	56.01 kVA
Receptacle	37.86 kVA	63.21%	23.93 kVA	TOTAL CONN. CURRENT	163 A
				TOTAL DEMAND CURRENT	124 A
				DEMAND CURRENT W/ SPARE	155 A

NOTES:
(G) = GROUND FAULT CIRCUIT BREAKER
1. PROVIDE RED CIRCUIT BREAKER WITH LOCKABLE PROVISIONS.

PANEL: L01 — SECTION 2

LOCATION: ELECTRICAL 106 | SUPPLIED FROM: L01 | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	43	LTG CONTROL PANEL	20 A	1	(2) #12, #12G, 3/4"C	0.5 / 0							44	
	45	RECEPT - TRAINING RM	20 A	1	(2) #10, #10G, 3/4"C		1 / 0						46	
	47	RECEPT - DRYER	40 A	2	(2) #8, #8G, 3/4"C			2.5 / 0.3	(2) #10, #10G, 3/4"C	1	20 A	CP-1	48	
	49					2.5 / 1.35			(2) #12, #12G, 3/4"C	2	20 A	DS-01	50	
	51	RECEPT - WASHER	20 A	1	(2) #10, #10G, 3/4"C		1.5 / 1.35						52	
	53	RECEPT - WASHER	20 A	1	(2) #10, #10G, 3/4"C			1.5 / 1.05	(2) #10, #10G, 3/4"C	2	20 A	VRF-1-10, 1-11, 1-12, 1-13, 1-14	54	
	55	VRF-1-1, VRF-1-2, VRF-1-3, VRF-1-4, VRF-1-5	20 A	2	(2) #8, #8G, 3/4"C	0.75 / 1.05							56	
	57						0.75 / 1.5		(2) #8, #8G, 3/4"C	1	20 A	RECEPT - ICE LAUNDRY	58	
	59	VRF-1-6, VRF-1-7, VRF-1-8, VRF-1-9	20 A	2	(2) #8, #8G, 3/4"C			1.95 / 1.5	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - ICE TRAINING	60	
	61					1.95 / 0.18			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - WEIGHT CNTR	62	
	63	RECEPT - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C		0.18 / 0.18		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - WEIGHT CNTR	64	
	65	RECEPT - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C			0.18 / 1.4	(2) #8, #8G, 3/4"C	1	20 A	HAND DRYER	66	(G)
	67	RECEPT - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C	0.18 / 0							68	(G)
	69	RECEPT - GYM FLOOR	20 A	1	(2) #10, #10G, 3/4"C		0.18 / 0						70	(G)
(G)	71												72	(G)
(G)	73												74	(G)
(G)	75	HAND DRYER	20 A	1	(2) #8, #8G, 3/4"C		1.4 / 2.5		(2) #8, #8G, 3/4"C	2	40 A	RECEPT - DRYER	76	
	77	SPARE	20 A	1				0 / 2.5					78	
	79	SPARE	20 A	1		0 / 0				1	20 A	SPARE	80	
	81	SPARE	20 A	1			0 / 0			1	20 A	SPARE	82	
	83	SPARE	20 A	1				0 / 0		1	20 A	SPARE	84	
					TOTAL LOAD (KVA):	8.5	10.5	12.9						
					TOTAL CURRENT (AMPS):	71 A	91 A	110 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	3.3 kVA	100.00%	3.3 kVA		
HVAC	10.2 kVA	100.00%	10.2 kVA	TOTAL CONN. KVA	31.9 kVA
Motor	0.3 kVA	125.00%	0.38 kVA	TOTAL EST. DEMAND KVA	27.9 kVA
Receptacle	18.08 kVA	77.65%	14.04 kVA	DEMAND W/ 25% SPARE	34.89 kVA
				TOTAL CONN. CURRENT	88 A
				TOTAL DEMAND CURRENT	77 A
				DEMAND CURRENT W/ SPARE	97 A

NOTES:
(G) = GROUND FAULT CIRCUIT BREAKER

PANEL: L12

LOCATION: M.D.F 206 | SUPPLIED FROM: DPL1 | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 100 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1	RECEPT - IT ROOM	20 A	1	(2) #12, #12G, 3/4"C	0.5 / 0.54			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - IT ROOM	2	
	3	RECEPT - IT ROOM	20 A	1	(2) #12, #12G, 3/4"C		0.5 / 0.5		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - IT ROOM	4	
	5	RECEPT - IT ROOM	20 A	1	(2) #12, #12G, 3/4"C			0.5 / 0.5	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - IT ROOM	6	
	7	RECEPT - IT ROOM	20 A	1	(2) #12, #12G, 3/4"C	0.5 / 2.5			(2) #12, #12G, 3/4"C	2	30 A	RECEPT - IT ROOM	8	
	9	RECEPT - IT ROOM	30 A	2	(2) #12, #12G, 3/4"C		2.5 / 2.5						10	
	11							2.5 / 1.35	(2) #12, #12G, 3/4"C	2	20 A	DS-02	12	
	13	SPACE	--	1		0 / 1.35							14	
	15	SPACE	--	1			0 / 0			1	--	SPACE	16	
	17	SPACE	--	1				0 / 0		1	--	SPACE	18	
	19	SPACE	--	1		0 / 0				1	--	SPACE	20	
	21	SPACE	--	1			0 / 0			1	--	SPACE	22	
	23	SPACE	--	1				0 / 0		1	--	SPACE	24	
	25	SPARE	20 A	1		0 / 0				1	20 A	SPARE	26	
	27	SPARE	20 A	1			0 / 0			1	20 A	SPARE	28	
	29	SPARE	20 A	1				0 / 0		1	20 A	SPARE	30	
					TOTAL LOAD (KVA):	5.4	6	4.9						
					TOTAL CURRENT (AMPS):	46 A	51 A	40 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
HVAC	2.7 kVA	100.00%	2.7 kVA		
Receptacle	13.54 kVA	86.93%	11.77 kVA	TOTAL CONN. KVA	16.2 kVA
				TOTAL EST. DEMAND KVA	14.5 kVA
				DEMAND W/ 25% SPARE	18.09 kVA
				TOTAL CONN. CURRENT	45 A
				TOTAL DEMAND CURRENT	40 A
				DEMAND CURRENT W/ SPARE	50 A

NOTES:

PANEL: L11A — SECTION 1

LOCATION: ELECTRICAL 205 | SUPPLIED FROM: DPL1 | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1	RECEPT - CATERING	20 A	1	(2) #12, #12G, 3/4"C	0.18 / 0.54			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - COSMETLGY	2	
	3	RECEPT - CATERING	20 A	1	(2) #12, #12G, 3/4"C		0.18 / 1.36		(2) #8, #8G, 3/4"C	1	20 A	RECEPT - FOUNDER RR	4	
	5	RECEPT - WOMEN RR	20 A	1	(2) #8, #8G, 3/4"C			1.4 / 0.72	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - NAIL FL BOX	6	(G)
	7	RECEPT - EXTERIOR	20 A	1	(2) #8, #8G, 3/4"C	0.54 / 0.36			(2) #10, #10G, 3/4"C	1	20 A	RECEPT - FOUNDER RM	8	
(G)	9	RECEPT - NAIL FL BOX	20 A	1	(2) #12, #12G, 3/4"C		0.54 / 0.18		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - JANITOR	10	
	11							0 / 0.36	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - STEM CLSRM	12	
	13	RECEPT - CONCESSION	20 A	1	(2) #12, #12G, 3/4"C	0.18 / 0.36			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - CATERING	14	
(G)	15	RECEPT - HEALTH	20 A	1	(2) #12, #12G, 3/4"C		0.72 / 0.54		(2) #10, #10G, 3/4"C	1	20 A	RECEPT - STEM CLSRM	16	
	17	RECEPT - STEM CLSRM	20 A	1	(2) #10, #10G, 3/4"C			0.9 / 0.54	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - MEN RR	18	
	19	RECEPT - NAIL SPA	20 A	1	(2) #12, #12G, 3/4"C	0.72 / 0.54			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - GYM, STORGE	20	
	21	RECEPT - HEALTH	20 A	1	(2) #12, #12G, 3/4"C		0.54 / 0.54		(2) #8, #8G, 3/4"C	1	20 A	RECEPT - GYM	22	
	23	RECEPT - GYM, STORGE	20 A	1	(2) #8, #8G, 3/4"C			0.72 / 0.72	(2) #10, #10G, 3/4"C	1	20 A	RECEPT - ROOF	24	
	25	RECEPT - FOUNDER RM	20 A	1	(2) #12, #12G, 3/4"C	0.54 / 0.72			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - LOBBY, EXT	26	
	27	RECEPT - NAIL SPA	20 A	1	(2) #12, #12G, 3/4"C		1.08 / 0.36		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - HEALTH	28	
	29	RECEPT - LOBBY	20 A	1	(2) #8, #8G, 3/4"C			0.72 / 1.5	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - CONC REF	30	
	31	RECEPT - FOUNDER RM	20 A	1	(2) #10, #10G, 3/4"C	0.72 / 1.5			(2) #8, #8G, 3/4"C	1	20 A	RECEPT - CATERING	32	
	33	RECEPT - CONC REF	20 A	1	(2) #8, #8G, 3/4"C		1.5 / 0			1	20 A	SPARE	34	
	35	SPARE	20 A	1				0 / 0		1	20 A	SPARE	36	
	37	SPARE	20 A	1		0 / 0				1	20 A	SPARE	38	
	39	SPARE	20 A	1			0 / 0			1	20 A	SPARE	40	
	41	SPARE	20 A	1				0 / 0		1	20 A	SPARE	42	

		A	B	C
THIS SECTION TOTAL:	Total KVA	6.9 kVA	7.54 kVA	7.58 kVA
	Total Amps	58 A	64 A	64 A
TOTAL CONNECTED TO FEED THROUGH LUGS SECTION:	Total KVA	7.88 kVA	7.7 kVA	7.8 kVA
	Total Amps	66 A	64 A	65 A
PANEL GRAND TOTAL:	Total KVA	14.78 kVA	15.24 kVA	15.38 kVA
	Total Amps	123 A	128 A	129 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	3.5 kVA	100.00%	3.5 kVA		
Other	0.36 kVA	100.00%	0.36 kVA	TOTAL CONN. KVA	45.4 kVA
Receptacle	40.54 kVA	62.33%	25.27 kVA	TOTAL EST. DEMAND KVA	30.4 kVA
Lighting	1 kVA	125.00%	1.25 kVA	DEMAND W/ 25% SPARE	37.98 kVA
				TOTAL CONN. CURRENT	126 A
				TOTAL DEMAND CURRENT	84 A
				DEMAND CURRENT W/ SPARE	105 A

NOTES:
(G) = GROUND FAULT CIRCUIT BREAKER

PANEL: L11B — SECTION 2

LOCATION: ELECTRICAL 205 | SUPPLIED FROM: L11A | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
(G)	43	RECEPT - NAIL FL BOX	20 A	1	(2) #12, #12G, 3/4"C	0.18 / 0.18			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - CONC WARM	44	
	45	RECEPT - COSMETLGY	20 A	1	(2) #12, #12G, 3/4"C		0.5 / 0.54		(2) #8, #8G, 3/4"C	1	20 A	RECEPT - CONC	46	
	47	RECEPT - COSMETLGY	20 A	1	(2) #12, #12G, 3/4"C			0.5 / 1	(2) #8, #8G, 3/4"C	1	20 A	STAIR RAIL LTG	48	
	49	RECEPT - SHADOW BOX	20 A	1	(2) #10, #10G, 3/4"C	0.54 / 0.68			(2) #12, #12G, 3/4"C	1	20 A	ADA DOOR CTRLS	50	
	51	RECEPT - STEM CEILING	20 A	1	(2) #12, #12G, 3/4"C		0.72 / 0.72		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - STEM CEILING	52	
(G)	53	RECEPT - WOMEN SINKS	20 A	1	(2) #12, #12G, 3/4"C			1.08 / 0.18	(2) #10, #10G, 3/4"C	1	20 A	RECEPT - EXTERIOR	54	
(G)	55	RECEPT - MENS RR...	20 A	1	(2) #12, #12G, 3/4"C	1.08 / 0.18			(2) #12, #12G, 3/4"C	1	20 A	RECEPT - CONC WARM	56	
	57	RECEPT - ELEC RM	20 A	1	(2) #12, #12G, 3/4"C		0.18 / 0.36		(2) #10, #10G, 3/4"C	1	20 A	RECEPT - FOUNDER TV	58	
(G)	59	RECEPT - SITE LGT POLE	20 A	1	(2) #8, #8G, 1"C			0.36 / 1.5	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - EWC	60	(G)
	61	RECEPT - CONCESSION	20 A	1	(2) #12, #12G, 3/4"C	0.36 / 1.5			(2) #10, #10G, 3/4"C	1	20 A	RECEPT - COSMETLGY	62	
(G)	63	RECEPT - EWC	20 A	1	(2) #12, #12G, 3/4"C		1.5 / 1.5		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - COSMETLGY	64	
	65	RECEPT - COSMETLGY	20 A	1	(2) #10, #10G, 3/4"C			1.5 / 1.5	(2) #12, #12G, 3/4"C	1	20 A	RECEPT - CONC. REF	66	
	67	RECEPT - COSMETLGY	20 A	1	(2) #12, #12G, 3/4"C	1.5 / 1.5			(2) #6, #6G, 1-1/4"C	1	20 A	MONUMENT SIGN - EXT.	68	
	69	DRYER	30 A	2			0.18 / 1.5		(2) #12, #12G, 3/4"C	1	20 A	RECEPT - CONC MICRO	70	
	71							0.18 / 0		1	20 A	SPARE	72	
	73	WASHER (G)	20 A	1		0.18 / 0				1	20 A	SPARE	74	
	75						0 / 0			1	20 A	SPARE	76	
	77	SPACE	--	1				0 / 0		1	20 A	SPARE	78	
	79	SPACE	--	1		0 / 0				1	20 A	SPARE	80	
	81	SPACE	--	1			0 / 0			1	20 A	SPARE	82	
	83	SPACE	--	1				0 / 0		1	20 A	SPARE	84	
					TOTAL LOAD (KVA):	7.9	7.7	7.8						
					TOTAL CURRENT (AMPS):	66 A	64 A	65 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	2 kVA	100.00%	2 kVA		
Other	0.36 kVA	100.00%	0.36 kVA	TOTAL CONN. KVA	23.4 kVA
Receptacle	20.02 kVA	74.98%	15.01 kVA	TOTAL EST. DEMAND KVA	18.6 kVA
Lighting	1 kVA	125.00%	1.25 kVA	DEMAND W/ 25% SPARE	23.28 kVA
				TOTAL CONN. CURRENT	65 A
				TOTAL DEMAND CURRENT	52 A
				DEMAND CURRENT W/ SPARE	65 A

NOTES:
(G) = GROUND FAULT CIRCUIT BREAKER

PANEL: INV-SS

LOCATION: INVERTER 114A | SUPPLIED FROM: | MOUNTING: SURFACE | ENCLOSURE TYPE:
SYSTEM VOLTAGE: None | PHASES: Not Computed | WIRES: Not Computed
A.I.C. RATING: | MAINS TYPE: | MAINS RATING:

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1	RECEPTACLES	20 A	1	(2) #12, #12G	0 / 0			(2) #12, #12G	1	20 A	INV. RM. REC.	2	
	3	EF-SS	20 A	1	(2) #12, #12G		0 / 0		(2) #12, #12G	1	20 A	SHELTER F/A EXP. PNL.	4	(LR)
	5	SPARE	20 A	1				0 / 0		1	20 A	SPARE	6	
					TOTAL LOAD (KVA):	0	0	0						
					TOTAL CURRENT (AMPS):									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
OUTPUT BREAKERS				TOTAL CONN. KVA	0 kVA
				TOTAL EST. DEMAND KVA	0 kVA
				DEMAND W/ 25% SPARE	0 kVA
				TOTAL CONN. CURRENT	Not Computed
				TOTAL DEMAND CURRENT	Not Computed
				DEMAND CURRENT W/ SPARE	0 A

NOTES:
(LR) EQUIP WITH RED LOCKING TAB

PANEL: L13A — SECTION 1

LOCATION: ELECTRICAL 205 | SUPPLIED FROM: DPL1 | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1	CP-2	20 A	1	(2) #12, #12G, 3/4"C	0.7 / 0				1	20 A	SPARE	2	
	3	EF-01 (ROOF)	20 A	1	(2) #10, #10G, 3/4"C		0.7 / 0.25		(2) #8, #8G, 3/4"C	2	20 A	GOAL - LOWERING POWER	4	
	5	GOAL LOWERING SYSTEM	30 A	2	(2) #10, #10G, 3/4"C			0.09 / 0.25					6	
	7					0.09 / 0.85			(2) #8, #8G, 1"C	2	20 A	ODU-7 (ON ROOF)	8	
	9	GOAL - LOWERING POWER	20 A	2	(2) #8, #8G, 3/4"C		0.25 / 0.85						10	
	11							0.25 / 0.5	(2) #12, #12G, 3/4"C	2	20 A	VRF-2-01, VRF-2-02, VRF-2-03	12	
	13	SPARE	20 A	1		0 / 0.5							14	
	15	VRF-2-04A,B, VRF-3-05A,B, VRF-2-06,07	20 A	2	(2) #10, #10G, 3/4"C		1 / 1.6		(2) #10, #10G, 3/4"C	2	20 A	VRF-3-01A, VRF-3-01B	16	
	17							1 / 1.6					18	
	19	ODU-5 (ON ROOF)	20 A	2	(2) #10, #10G, 3/4"C	2.5 / 0							20	
	21						2.5 / 0						22	
	23	ODU-6 (ON ROOF)	20 A	2	(2) #10, #10G, 3/4"C			2.5 / 0.25	(2) #8, #8G, 3/4"C	2	20 A	GOAL - LOWERING POWER	24	
	25					2.5 / 0.25							26	
	27						0.6 / 0						28	
	29	EF-02 (ON ROOF)	20 A	3	(3) #10, #10G, 3/4"C			0.6 / 0					30	
	31					0.6 / 0				1	20 A	SPARE	32	
	33	SPACE	--	1			0 / 0			1	20 A	SPARE	34	
	35	SPACE	--	1				0 / 0		1	20 A	SPARE	36	
	37	SPACE	--	1		0 / 0				1	20 A	SPARE	38	
	39	SPACE	--	1			0 / 0			1	20 A	SPARE	40	
	41	SPACE	--	1				0 / 0		1	20 A	SPARE	42	

		A	B	C
THIS SECTION TOTAL:	Total KVA	7.99 kVA	7.75 kVA	7.04 kVA
	Total Amps	67 A	65 A	59 A
TOTAL CONNECTED TO FEED THROUGH LUGS SECTION:	Total KVA	9.6 kVA	8.6 kVA	8.6 kVA
	Total Amps	80 A	72 A	72 A
PANEL GRAND TOTAL:	Total KVA	17.59 kVA	16.35 kVA	15.64 kVA
	Total Amps	147 A	137 A	130 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	28.2 kVA	100.00%	28.2 kVA		
HVAC	19.8 kVA	100.00%	19.8 kVA	TOTAL CONN. KVA	49.6 kVA
Motor	1.4 kVA	112.50%	1.58 kVA	TOTAL EST. DEMAND KVA	49.8 kVA
Receptacle	0.18 kVA	100.00%	0.18 kVA	DEMAND W/ 25% SPARE	62.19 kVA
				TOTAL CONN. CURRENT	138 A
				TOTAL DEMAND CURRENT	138 A
				DEMAND CURRENT W/ SPARE	173 A

NOTES:
(G) = GROUND FAULT CIRCUIT BREAKER

PANEL: L13B — SECTION 2

LOCATION: ELECTRICAL 205 | SUPPLIED FROM: L13A | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 225 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
(G)	43	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C	1.4 / 1.4			(2) #12, #12G, 3/4"C	1	20 A	HAND DRYER	44	(G)
(G)	45	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C		1.4 / 1.4		(2) #12, #12G, 3/4"C	1	20 A	HAND DRYER	46	(G)
(G)	47	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C			1.4 / 1.4	(2) #12, #12G, 3/4"C	1	20 A	HAND DRYER	48	(G)
(G)	49	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C	1.4 / 1.4			(2) #12, #12G, 3/4"C	1	20 A	HAND DRYER	50	(G)
(G)	51	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C		1.4 / 1.4		(2) #12, #12G, 3/4"C	1	20 A	HAND DRYER	52	(G)
(G)	53	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C			1.4 / 1.4	(2) #12, #12G, 3/4"C	1	20 A	HAND DRYER	54	(G)
(G)	55	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C	1.4 / 1			(2) #8, #8G	1	20 A	CENTER SCOREBOARD	56	
(G)	57	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C		1.4 / 1		(2) #8, #8G	1	20 A	CENTER SCOREBOARD	58	
(G)	59	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C			1.4 / 1	(2) #8, #8G	1	20 A	CENTER SCOREBOARD	60	
	61	CENTER SCOREBOARD	20 A	1	(2) #8, #8G	1 / 0				1	20 A	SPARE	62	
	63						0.6 / 0			1	20 A	SPARE	64	
	65	EF-03 (ON ROOF)	20 A	3	(3) #10, #10G, 3/4"C			0.6 / 0		1	20 A	SPARE	66	
	67					0.6 / 0				1	20 A	SPARE	68	
	69	SPARE	20 A	1			0 / 0			1	20 A	SPARE	70	
	71	SPARE	20 A	1				0 / 0		1	20 A	SPARE	72	
	73	SPARE	20 A	1		0 / 0				1	20 A	SPARE	74	
	75	SPARE	20 A	1			0 / 0			1	--	SPACE	76	
	77	SPARE	20 A	1				0 / 0		1	--	SPACE	78	
	79	SPARE	20 A	1		0 / 0				1	--	SPACE	80	
	81	SPARE	20 A	1			0 / 0			1	--	SPACE	82	
	83	SPARE	20 A	1				0 / 0		1	--	SPACE	84	
					TOTAL LOAD (KVA):	9.6	8.6	8.6						
					TOTAL CURRENT (AMPS):	80 A	72 A	72 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	25 kVA	100.00%	25 kVA		
HVAC	1.8 kVA	100.00%	1.8 kVA	TOTAL CONN. KVA	26.8 kVA
				TOTAL EST. DEMAND KVA	26.8 kVA
				DEMAND W/ 25% SPARE	33.5 kVA
				TOTAL CONN. CURRENT	74 A
				TOTAL DEMAND CURRENT	74 A
				DEMAND CURRENT W/ SPARE	93 A

NOTES:
(G) = GROUND FAULT CIRCUIT BREAKER

PANEL: L02

LOCATION: STORAGE 125 | SUPPLIED FROM: | MOUNTING: SURFACE | ENCLOSURE TYPE: TYPE 1
SYSTEM VOLTAGE: 208Y/120V | PHASES: 3 | WIRES: 4
A.I.C. RATING: 10 KAIC | MAINS TYPE: MLO | MAINS RATING: 200 A

NOTE	CKT	DESCRIPTION	TRIP	POL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	POL	TRIP	DESCRIPTION	CKT	NOTE
	1	RECEIVING, STOR. REC.	20 A	1	(2) #12, #12G, 3/4"C	0.9 / 0.36			(2) #10, #10G, 3/4"C	1	20 A	RECEPT - GYM, CORR	2	
	3	RECEIVING DOOR	30 A	2	(2) #10, #10G, 3/4"C		2.5 / 1.5		(2) #10, #10G, 3/4"C	1	20 A	RECEPT - EWC (G)	4	
	5							2.5 / 1.4	(2) #8, #8G, 3/4"C	1	20 A	HAND DRYER	6	
	7	HAND DRYER	20 A	1	(2) #8, #8G, 3/4"C	1.4 / 0.36			(2) #12, #12G, 3/4"C	1	20 A	RECEPTACLE	8	
	9	RECEPT - LOCKER RM	20 A	1	(2) #12, #12G, 3/4"C		1.08 / 0.36		(2) #12, #12G, 3/4"C	1	20 A	RECEPTACLE	10	
	11	HAND DRYER	20 A	1	(2) #8, #8G, 3/4"C			1.4 / 1.4	(2) #8, #8G, 3/4"C	1	20 A	HAND DRYER	12	
	13	HAND DRYER	20 A	1	(2) #8, #8G, 3/4"C	1.4 / 0							14	
	15	HAND DRYER	20 A	1	(2) #12, #12G, 3/4"C		1.4 / 0						16	
	17												18	
	19												20	
	21												22	
	23												24	
	25												26	
	27												28	
	29												30	
					TOTAL LOAD (KVA):	4.4	6.8	6.7						
					TOTAL CURRENT (AMPS):	37 A	60 A	59 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Equipment	8.4 kVA	100.00%	8.4 kVA		
Motor	5 kVA	125.00%	6.25 kVA	TOTAL CONN. KVA	18 kVA
Receptacle	4.56 kVA	100.00%	4.56 kVA	TOTAL EST. DEMAND KVA	19.2 kVA
				DEMAND W/ 25% SPARE	24.01 kVA
				TOTAL CONN. CURRENT	50 A
				TOTAL DEMAND CURRENT	53 A
				DEMAND CURRENT W/ SPARE	67 A

NOTES:

GMC

Goodwyn Mills Cawood, LLC
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T 205.879.4462
GMCNETWORK.COM

ISSUE	DATE
DCM FINAL SUBMITTAL	10.18.24

DRAWN BY: REA
CHECKED BY: JTD

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA ENGINEER JOHN DANILSON JR 11/14/2024

PANEL SCHEDULES

E701

11/14/2024 4:22:08 PM TEMPLATE VERSION: 2022.1

ROCKET MEP LLC
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ABBREVIATION AND ACRONYMS

(APPLIES TO ALL PLUMBING SHEETS)

%	PERCENT	KS	KITCHEN SINK
°	DEGREE	KW	KILOWATT
°C	CELSIUS	KWH	KILOWATT HOUR
°F	FAHRENHEIT	L	LEADER
ø OR DIA	DIAMETER	LAV	LAVATORY
Δ	DIFFERENCE	LB	POUND
A	COMPRESSED AIR	LIN FT	LINEAR FOOT OR FEET
AAV	AIR ADMITTANCE VALVE	LPG	LIQUEFIED PETROLEUM GAS
AC	ALTERNATING CURRENT	LT	LAUNDRY TRAY
AD	ACCESS DOOR OR AREA DRAIN	LWT	LEAVING WATER TEMPERATURE
ADA	AMERICANS WITH DISABILITIES ACT	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISHED GRADE	MECH	MECHANICAL
AFR	ABOVE FINISHED ROOF	MGD	MILLION GALLONS PER DAY
AG	ABOVE GRADE	MH	MANHOLE
AGA	AMERICAN GAS ASSOCIATION	MIN	MINIMUM
ALT	ALTERNATE	MOCP	MAXIMUM OVERCURRENT PROTECTION
AMB	AMBIENT	MS	MOP SINK
AMP	AMPERE	N C	NORMALLY CLOSED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	N I C	NOT IN CONTRACT
AS	ABOVE SLAB	N O	NORMALLY OPEN
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	N T S	NOT TO SCALE
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERING	N/A	NOT APPLICABLE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NEC	NATIONAL ELECTRIC CODE
ATM	ATMOSPHERE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AV	ANGLE VALVE		
AVG	AVERAGE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AWG	AMERICAN WIRE GAGE	NG	NATURAL GAS
AWWA	AMERICAN WATER WORKS ASSOCIATION	NO	NUMBER
BAS	BUILDING AUTOMATION SYSTEM	NPS	NOMINAL PIPE SIZE
BEP	BEST EFFICIENCY POINT	NPSH	NET POSITIVE SUCTION HEAD
BF	BELOW FLOOR	NPT	NATIONAL PIPE THREAD
BFP	BACKFLOW PREVENTER	NSF	NATIONAL SANITATION FOUNDATION
BFV	BUTTERFLY VALVE	NTP	NORMAL TEMPERATURE AND PRESSURE
BG	BELOW GRADE	OC	ON CENTER
BHP	BRAKE HORSEPOWER	OD	OUTSIDE DIAMETER
BOD	BASIS OF DESIGN	OFD	OVERFLOW DRAIN
BOP	BOTTOM OF PIPE	ORL	STORM OVERFLOW
BP	BOILING POINT	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
BS	BELOW SLAB		
BT	BATHTUB	P & ID	PIPING AND INSTRUMENTATION DIAGRAM
BV	BALL VALVE	PCW	PUMPED COLD WATER
CA	COMPRESSED AIR	PD	PRESSURE DROP
CAP	CAPACITY	PDI	PLUMBING DRAINAGE INSTITUTE
CB	CATCH BASIN	PH	PHASE (ELECTRICAL)
CD	CONDENSATE	PIW	PUMPED INDUSTRIAL WASTE
CFH	CUBIC FEET PER HOUR	PRV	PRESSURE REDUCING VALVE
CI	CAST IRON	PSAN	PUMPED SANITARY
CLG	COOLING OR CEILING	PSF	POUNDS PER SQUARE FOOT
CO	CLEANOUT	PSI	POUNDS PER SQUARE INCH
CONN	CONNECTION	PSIA	PSI ABSOLUTE
CONT	CONTINUE	PSIG	PSI GAGE
COORD	COORDINATE	PV	PLUG VALVE OR PRESSURE RELIEF VALVE
CP	CIRCULATING PUMP	PVC	POLYVINYL CHLORIDE
CPVC	CHLORINATED POLYVINYL CHLORIDE	PW	PROCESS WATER
CU FT	CUBIC FEET	RD	ROOF DRAIN
CU IN	CUBIC INCH	RECIRC	RECIRCULATE
C_v	COEFFICIENT, VALVE FLOW	RO	REVERSE OSMOSIS WATER
CV	CHECK VALVE	RODI	RO DEIONIZED WATER
CW	DOMESTIC COLD WATER	RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
DB	DECIBEL	RPM	REVOLUTIONS PER MINUTE
DC	DIRECT CURRENT	RPZ	REDUCED PRESSURE ZONE
DCV	DOUBLE CHECK VALVE	S	SANITARY OR SECOND
DD	DIRECT DRIVE	SCH	SCHEDULE
DDC	DIRECT DIGITAL CONTROL	SG	SPECIFIC GRAVITY
DE	DEIONIZED WATER	SH	SHOWER
DF	DRINKING FOUNTAIN	SK	SINK
DFU	DRAINAGE FIXTURE UNIT	SP HT	SPECIFIC HEAT
DHW	DOMESTIC HOT WATER	SP VOL	SPECIFIC VOLUME
DI	DRAINAGE INLET OR DISTILLED WATER	SPEC	SPECIFICATION
DN	DOWN	SQ	SQUARE
DWG	DRAWING	SS	SERVICE SINK OR STAINLESS STEEL
EC	ELECTRONICALLY COMMUTATED	STD	STANDARD
ECO	EXTERIOR CLEANOUT	STL	STEEL
EFF	EFFICIENCY	STO	STORM OVERFLOW
EL OR ELEV	ELEVATION	TAB	TESTING, ADJUSTING, AND BALANCING
ELEC	ELECTRIC, ELECTRICAL	TDH	TOTAL DYNAMIC HEAD
ENT	ENTERING	TE	TOP ELEVATION
EQUIP	EQUIPMENT	TEMP	TEMPERATURE
EWC	ELECTRIC WATER COOLER	TET	THERMAL EXPANSION TANK
EWH	ELECTRIC WATER HEATER	TMV	THERMOSTATIC MIXING VALVE
EWT	ENTERING WATER TEMPERATURE	TOP	TOP OF PIPE
EXST	EXISTING	TOS	TOP OF SLAB
FAS	FIRE ALARM SYSTEM	TP	TRAP PRIMER
FCO	FLOOR CLEANOUT	TPRV	TEMPERATURE & PRESSURE RELIEF VALVE
FD	FLOOR DRAIN	TW	TEMPERED WATER
FIN	FINISH	TYP	TYPICAL
FL	FLOOR	UG	UNDERGROUND
FLA	FULL LOAD AMPS	UL	UNDERWRITERS LABORATORIES
FOG	FATS, OILS, AND GREASE	UNO	UNLESS NOTED OTHERWISE
FPM	FEET PER MINUTE	UR	URINAL
FPS	FEET PER SECOND	V	VENT OR VOLT
FT	FOOT OR FEET	VA	VOLT AMPERE
FT HD	FOOT HEAD	VAC	VACUUM
FT LB	FOOT-POUND	VB	VACUUM BREAKER
FU	FIXTURE UNIT	VEL	VELOCITY
G	NATURAL GAS	VFD	VARIABLE FREQUENCY DRIVE
GAL	GALLONS	VLV	VALVE
GPD	GALLONS PER DAY	VOL	VOLUME
GPH	GALLONS PER HOUR	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	W	WATT
GPY	GALLONS PER YEAR	W/	WITH
GR	GREASE WASTE	WC	WATER CLOSET OR WATER COLUMN
H2O	WATER	WFU	WATER SUPPLY FIXTURE UNITS
HB	HOSE BIBB	WG	WATER GAGE
HD	HEAD	WH	WALL HYDRANT
HP	HORSEPOWER	WHA	WATER HAMMER ARRESTOR
HR	HOUR	WOG	WATER, OIL, AND GAS
HW	DOMESTIC HOT WATER	WWP	WATER WORKING PRESSURE
HWC	DOMESTIC HOT WATER CIRCULATING	YH	YARD HYDRANT
HZ	HERTZ (FREQUENCY)		
IA	INSTRUMENT AIR		
ICC	INTERNATIONAL CODE COUNCIL		
ID	INTERNAL DIAMETER		
IE	INVERT ELEVATION		
IN	INCH		
IP	INCH-POUND		
IPS	INTERNATIONAL PIPE STANDARD OR IRON PIPE SIZE		
IRR	IRRIGATION WATER		
IW	INDUSTRIAL WASTE		

PIPING

- CW — DOMESTIC COLD WATER PIPING
- HW — DOMESTIC HOT WATER PIPING
- HWC — DOMESTIC HOT WATER CIRCULATING PIPING
- SAN — SANITARY DRAIN PIPING (ABOVE SLAB)
- SAN U/G — SANITARY DRAIN PIPING (UNDERGROUND)
- ST — STORM DRAIN PIPING (ABOVE SLAB)
- ST U/G — STORM DRAIN PIPING (UNDERGROUND)
- STO — STORM OVERFLOW PIPING
- V — VENT PIPING
- G — NATURAL GAS PIPING
- CD — CONDENSATE PIPING
- A — COMPRESSED AIR PIPING
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- THREE WAY VALVE
- NEEDLE VALVE
- PRESSURE REDUCING VALVE
- SAFETY OR RELIEF VALVE
- M — ELECTRIC MOTOR ACTUATED VALVE
- PIPE CAP
- PIPE ELBOW, DOWN
- PIPE ELBOW, UP
- PIPE TEE, DOWN
- PIPE TEE
- P-TRAP
- UNION
- AUTOMATIC AIR VENT
- FS — FLOW SWITCH
- PS — PRESSURE SWITCH
- PRESSURE GAGE AND COCK
- PUMP
- STRAINER
- STRAINER, BLOW OFF
- THERMOMETER
- FLEXIBLE CONNECTOR
- TEST PLUG

ANNOTATIONS

- # — KEYNOTE
- EWH-1 — EQUIPMENT TAG (REFER TO SCHEDULES)
- ? / ? — ENLARGED PLAN OR DETAIL CALL-OUT
- ? / ? — SECTION CALL-OUT
- RX — RISER VIEW REFERENCE ("X" CORRESPONDS TO SPECIFIC RISER VIEW FOUND ON SHEETS P9.01 THROUGH P9.04)

PLUMBING GENERAL NOTES

A. COORDINATE ALL WORK WITH WORK BY OTHERS.

B. PROVIDE PIPE, PIPE INSULATION, FITTINGS, AND JOINING METHODS PER SPECIFICATIONS.

C. ALL PIPE ROUTING SHALL BE ORTHOGONAL TO BUILDING LINES.

D. INSTALL PIPE ABOVE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL (I.E. BOTTOM OF PIPE INSULATION SHALL BE A MINIMUM OF 8" ABOVE CEILING).

E. VENT PIPE SHALL TERMINATE NO LESS THAN 8" ABOVE FINISHED ROOF LEVEL AND SHALL BE AT MINIMUM 10'-00" HORIZONTAL DISTANCE FROM ANY OUTDOOR AIR INTAKE.

F. PROVIDE CLEANOUTS IN BUILDING DRAINS AT INTERVALS OF NOT MORE THAN 100'-00". PROVIDE CLEANOUTS AT THE JUNCTION OF BUILDING DRAIN AND BUILDING SEWER AND AT ANY CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES IN ANY DRAINAGE PIPE. HORIZONTAL DRAINAGE PIPING SHALL BE SLOPED DOWNWARD IN THE DIRECTION OF FLOW. 2% FOR 2-1/2"ø OR SMALLER, 1% FOR 3"ø TO 6"ø, AND 0.5% FOR 8"ø OR LARGER.

G. A PRESSURE REDUCING VALVE SHALL BE PROVIDED AT THE START OF THE BUILDING WATER DISTRIBUTION PIPING WHERE WATER PRESSURE WITHIN THE BUILDING EXCEEDS 80 PSI STATIC.

H. EXTERIOR WATER SUPPLY PIPING SHALL BE INSTALLED NOT LESS THAN 18" BELOW GRADE—AT MINIMUM 6" BELOW FROST LINE.

I. PROVIDE ALL HYDRANTS WITH AN ACCESSIBLE AND IDENTIFIABLE, OR TAGGED, SHUTOFF VALVE.

J. PROVIDE ALL PLUMBING FIXTURES, APPLIANCES AND MECHANICAL EQUIPMENT WITH AN ACCESSIBLE SHUTOFF VALVE ON THE WATER SUPPLY PIPE.

K. PROVIDE FULL-OPEN VALVE AT THE START OF THE BUILDING WATER DISTRIBUTION PIPING AND ON THE WATER SUPPLY PIPE TO EACH WATER HEATER.

L. ALL PLUMBING FIXTURE SUPPLY PIPES SHALL TERMINATE NOT MORE THAN 30" FROM THE POINT OF CONNECTION TO THE FIXTURE.

M. WALL HYDRANTS LOCATED ON EXTERIOR WALLS SHALL BE MOUNTED 2'-00" ABOVE FINISHED GRADE.

N. PROVIDE A DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY CONFORMING TO ASSE 1015 OR AWWA C510 AT THE START OF THE BUILDING WATER DISTRIBUTION PIPING IF NOT PRESENT ON THE WATER SERVICE PIPE FROM THE WATER MAIN OR OTHER SOURCE OF POTABLE WATER SUPPLY.

O. ALL HYDRANTS, FAUCETS AND FIXTURE FITTINGS WITH HOSE-CONNECTED OUTLETS SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE VACUUM BREAKER—CONFORMING TO ASME A112.21.3; ASSE 1011, ASSE 1019, ASSE 1035, OR ASSE 1052—OR A PRESSURE-TYPE VACUUM BREAKER CONFORMING TO ASSE 1020.

P. THE WATER SUPPLY CONNECTION TO EACH COFFEE MACHINE SHALL BE PROTECTED AGAINST BACKFLOW BY A BACKFLOW PREVENTER CONFORMING TO ASSE 1024.

Q. THE MAXIMUM OPERATING PRESSURE FOR GAS PIPING LOCATED INSIDE THE BUILDING SHALL NOT EXCEED 5 PSIG.

R. PROVIDE A LINE PRESSURE REGULATOR FOR ALL GAS EQUIPMENT WHERE PRESSURE DOWNSTREAM OF SERVICE PRESSURE REGULATOR IS GREATER THAN THE INLET PRESSURE REQUIREMENT OF GAS EQUIPMENT.

S. PIPE PENETRATIONS OF FLOOR / CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

T. PIPE INSULATION INSTALLED IN THE BUILDING SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE; SHALL BE TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723, USING THE SPECIMEN PREPARATION AND MOUNTING PROCEDURES OF ASTM E2231; AND SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A SMOKE-DEVELOPED INDEX NOT EXCEEDING 450. PIPE INSULATION INSTALLED WITHIN A PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A SMOKE-DEVELOPED INDEX NOT EXCEEDING 50.

U. ALL EQUIPMENT THAT CONTAINS AN EVAPORATOR OR A COOLING COIL OR CONTAINS FUEL-BURNING EQUIPMENT SHALL BE PROVIDED WITH A CONDENSATE DRAIN. CONDENSATE SHALL BE CONVEYED FROM THE DRAIN PAN OUTLET TO A PLACE OF DISPOSAL (I.E. ROOF DRAIN OR MOP SINK DRAIN) AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE CONDENSATE DRAIN SHALL BE SLOPED DOWNWARD IN THE DIRECTION OF FLOW AT A MINIMUM SLOPE OF 1%. THE CONDENSATE DRAIN SHALL BE FULL SIZE OF THE EQUIPMENT'S DRAIN PAN OUTLET; THE MINIMUM ALLOWABLE CONDENSATE DRAIN SIZE SHALL BE 3/4" INTERNAL DIAMETER. CONDENSATE DRAINS SHALL BE TRAPPED AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

V. WATER CLOSET FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.

W. ALL LAVATORIES IN PUBLIC TOILET FACILITIES SHALL BE PROVIDED WITH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO THE REQUIREMENTS OF ASSE 1070. WATER TEMPERATURE AT LAVATORY OUTLETS SHALL BE FIELD ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO 110°F OR TEMPERED WATER TEMPERATURE.

X. INDIVIDUAL SHOWER VALVES SHALL BE BALANCED-PRESSURE, THERMOSTATIC, OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC VALVES THAT CONFORM TO THE REQUIREMENTS OF ASSE 1016 AND SHALL BE INSTALLED AT THE POINT OF USE. SHOWER VALVES SHALL BE EQUIPPED WITH A MEANS TO LIMIT THE MAXIMUM SETTING OF THE VALVE TO 120°F, WHICH SHALL BE FIELD ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

Y. THE WATER SUPPLIED TO ALL PEDICURE CHAIRS HAVING AN INTEGRAL FOOT BATHTUB / FOOTBATHS SHALL BE LIMITED TO 120°F BY A WATER-TEMPERATURE-LIMITING DEVICE THAT CONFORMS TO ASSE 1070.

Z. HEAD SHAMPOO SINK FAUCETS SHALL BE SUPPLIED WITH HOT WATER THAT IS LIMITED TO NOT MORE THAN 120°F BY A WATER-TEMPERATURE-LIMITING DEVICE THAT CONFORMS TO ASSE 1070. EACH FAUCET SHALL HAVE INTEGRAL CHECK VALVES TO PREVENT CROSSOVER FLOW BETWEEN THE HOT AND COLD WATER SUPPLY CONNECTIONS.

AA. ALL EMERGENCY FLOOR DRAINS AND FIXTURES WHOSE TRAP SEAL IS SUBJECT TO EVAPORATION SHALL BE PROTECTED WITH A POTABLE WATER-SUPPLIED TRAP SEAL PRIMER VALVE THAT CONFORMS TO THE REQUIREMENTS OF ASSE 1018. THE DISCHARGE PIPE FROM THE TRAP SEAL PRIMER VALVE SHALL CONNECT ABOVE THE TRAP SEAL ON THE INLET SIDE OF THE TRAP.

BB. INSTALL ESCUTCHEONS FOR ALL EXPOSED PIPING PENETRATIONS OF WALLS, CEILINGS, AND FINISHED FLOORS. ESCUTCHEONS SHALL HAVE AN INTERNAL DIAMETER SLIGHTLY LARGER THAN THE DIAMETER OF THE PIPE PLUS INSULATION AND SHALL HAVE AN OUTER DIAMETER THAT COMPLETELY COVERS THE PENETRATION.

CC. DOMESTIC HOT WATER CIRCULATING SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP WITH AUTOMATIC CONTROLS THAT SHALL TURN PUMP OFF WHEN WATER IN CIRCULATING PIPING IS ABOVE 120°F. MINIMUM WATER TEMPERATURE IN CIRCULATING PIPING SHALL BE SPECIFIED BY AUTHORITY HAVING JURISDICTION BUT IN NO CASE SHALL THE WATER TEMPERATURE IN CIRCULATING PIPING DROP BELOW 120°F.

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 39810 ANDREAS R. HUNT 11/14/2024

PLUMBING ABBREVIATIONS & LEGENDS

P0.01

11/14/2024 11:11:20 AM TEMPLATE VERSION: 2022.1

PLUMBING GRAVITY PLAN - LOWER LEVEL

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
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FORT PAYNE, AL 35967

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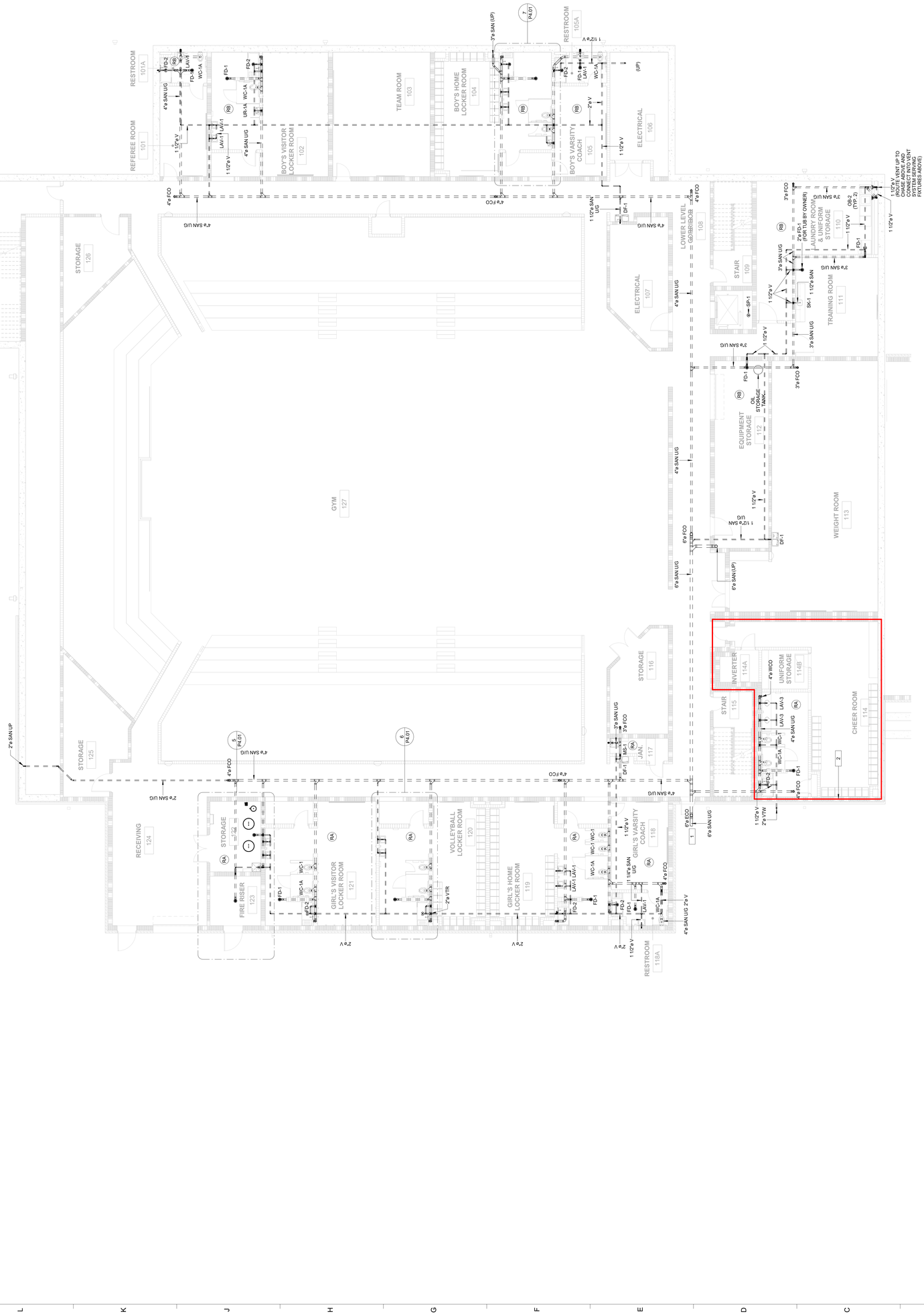
ANN HAMPTON KAY 7119
AL CERT OF AUTH: EC-0429

PLUMBING KEYED NOTES:

1. REFER TO CIVIL DRAWINGS FOR UNDERGROUND SANITARY SEWER CONTINUATION.
2. RED LINEWORK REPRESENTS BOUNDARY OF STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE ARE PROHIBITED EXCEPT AS FOLLOWS: PENETRATIONS LESS THAN 2 INCHES IN AREA FOR RECTANGULAR PENETRATIONS OR 2-1/2 INCHES IN DIAMETER FOR ROUND PENETRATIONS SHALL BE PERMITTED. ALL PENETRATIONS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 305.4 OF THE 2000 ICC 500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS. PENETRATIONS OF THE STORM SHELTER ENVELOPE SHALL NOT REDUCE THE STRUCTURAL STRENGTH OR IMPACT RESISTANCE OF THE STORM SHELTER AND IMPACT RESISTANCE OF THE STORM SHELTER ENVELOPE.



1 LOWER LEVEL - GRAVITY PLAN
1/8" = 1'-0"

11/14/2024 11:11:36 AM TEMPLATE VERSION: 2022.1

PLUMBING GRAVITY PLAN - MAIN LEVEL

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
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P1.02

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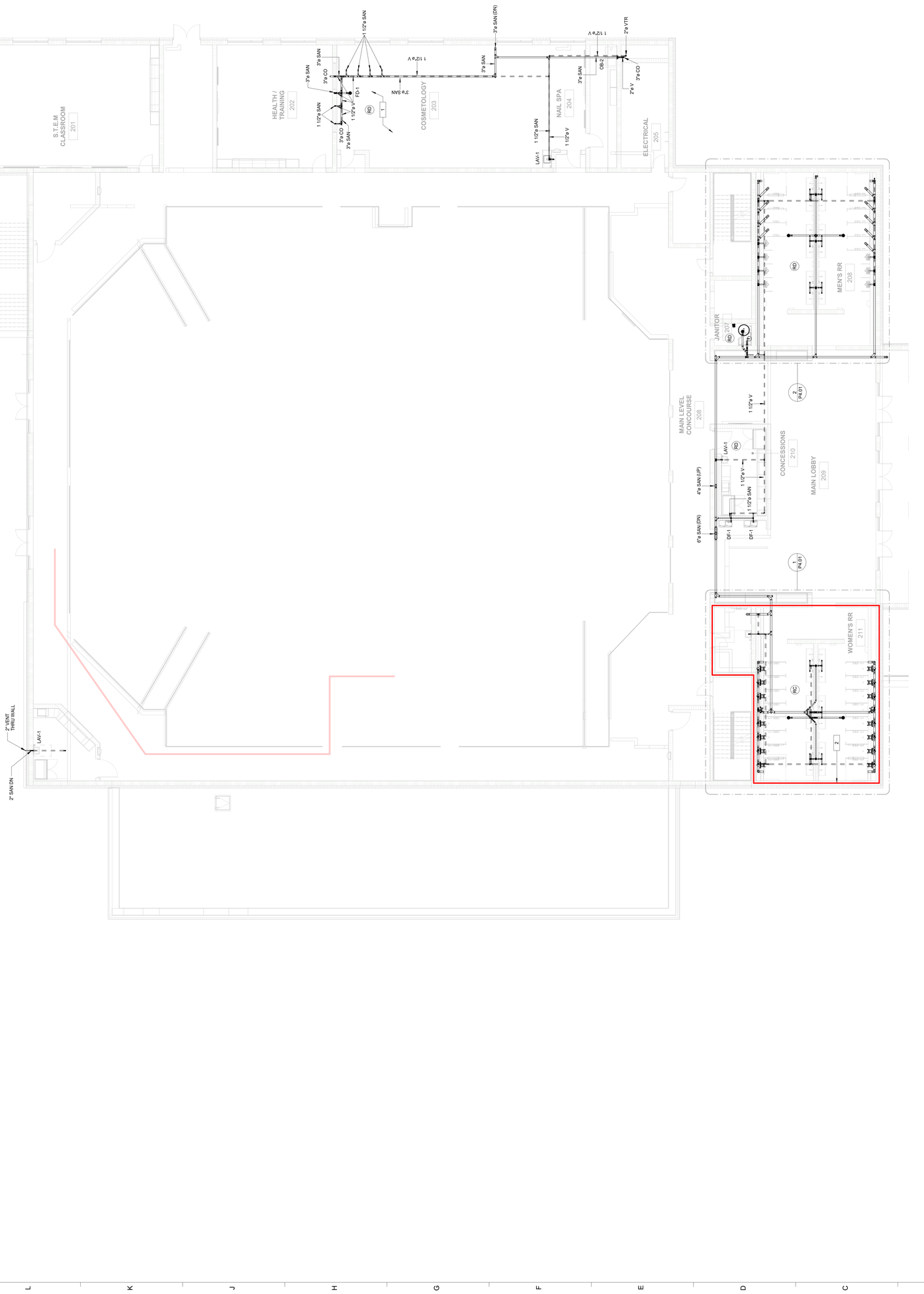
AL CERT OF AUTH: EC-43387

PLUMBING KEYED NOTES:

1. COORDINATE PLUMBING CONNECTIONS WITH FIXTURES IN CLASSROOM.
2. RED LINEWORK REPRESENTS BOUNDARY OF STORM SHELTER ON LEVEL BELOW. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE (CEILING, FLOOR, WALLS) LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR PENETRATIONS OR 3-1/2 INCHES IN DIAMETER FOR CIRCULAR PENETRATIONS SHALL BE PROTECTED BY A DEVICE AND SHALL BE PROTECTED IN ACCORDANCE WITH *SECTION 306.4 OF THE 2020 ICC 500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS*. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE SHALL NOT REDUCE THE STRUCTURAL INTEGRITY OF THE STORM SHELTER AND IMPACT RESISTANCE OF THE STORM SHELTER ENVELOPE.



1 MAIN LEVEL - GRAVITY PLAN
1/8" = 1'-0"

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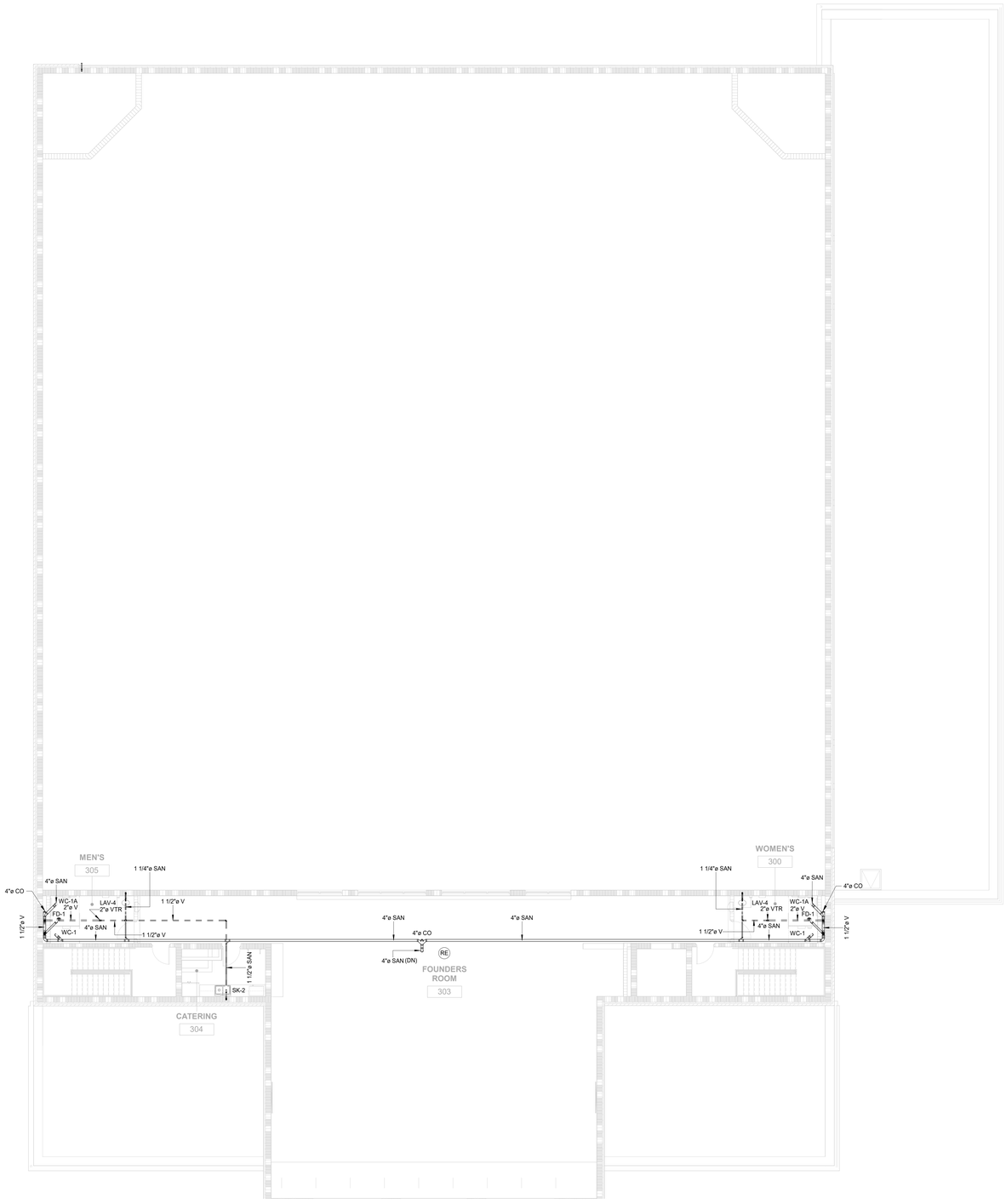

1 UPPER LEVEL - GRAVITY PLAN
1/8" = 1'-0"

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PLUMBING GRAVITY PLAN - UPPER LEVEL

P1.03

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PLUMBING PRESSURE PLAN - LOWER LEVEL

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P1.04

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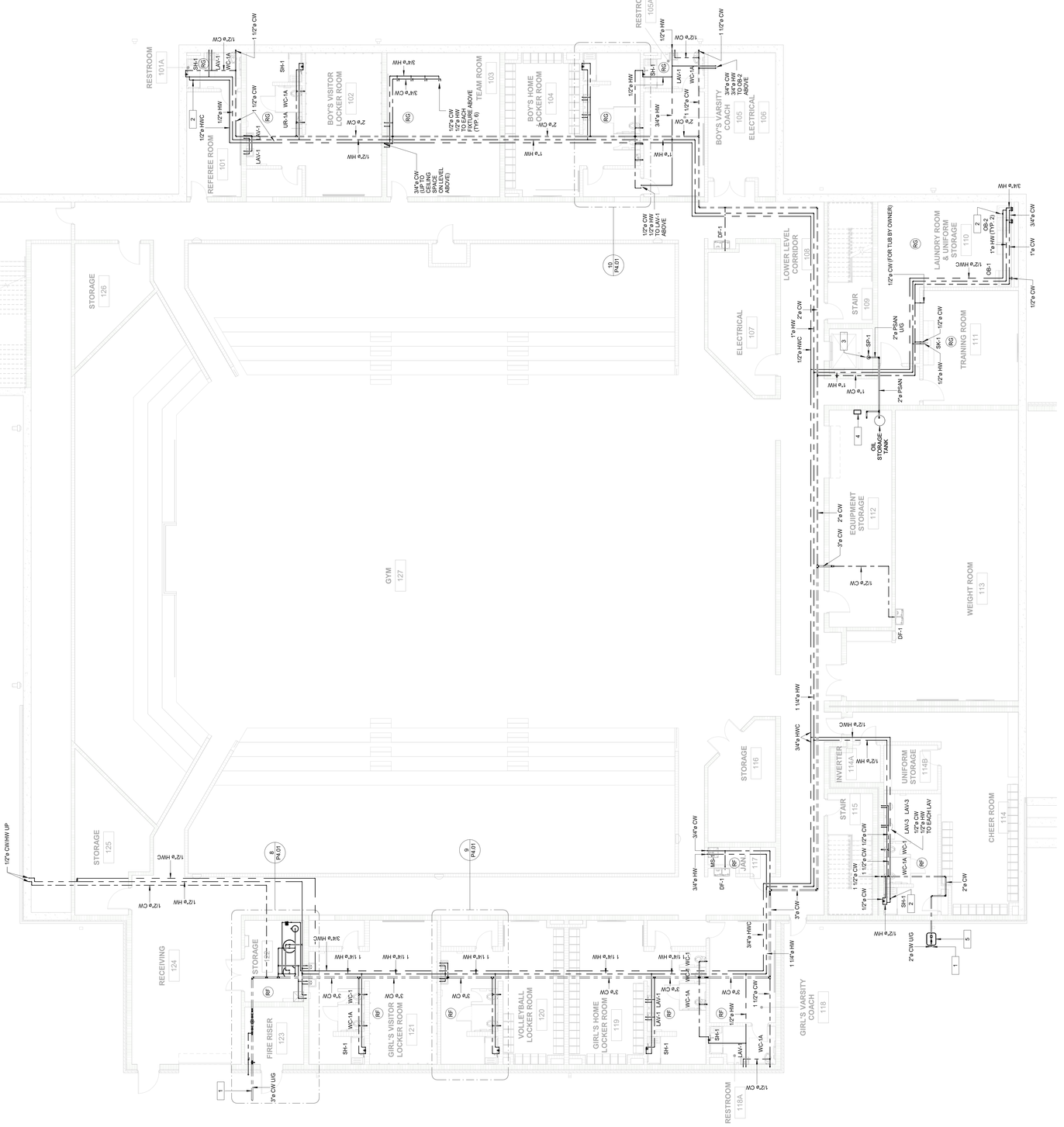
PLUMBING KEYED NOTES:

1. REFER TO CIVIL DRAWINGS FOR UNDERGROUND DOMESTIC WATER SERVICE CONTINUATION.
2. ADJUST CIRCUIT SETTER TO DELIVER 0.5 GALLONS PER MINUTE TO LIMIT FLOW VELOCITY TO 2 FEET PER SECOND IN PEX HOT WATER CIRCULATING PIPING.
3. ELEVATOR SUMP SHOWN IN GENERAL LOCATION. COORDINATE SUMP PUMP LOCATION WITH EXACT SUMP LOCATION. COORDINATE PUMPED SANITARY PIPE ROUTING WITH ELEVATOR MECHANICAL EQUIPMENT.
4. PROVIDE SUMP PUMP CONTROL PANEL IN STORAGE ROOM ACROSS CORRIDOR FROM ELEVATOR. MOUNT 4'-0" ABOVE FINISHED FLOOR.
5. PROVIDE FULL-OPEN SHUTOFF VALVE AND PRESSURE REDUCING VALVE AT START OF DOMESTIC WATER DISTRIBUTION SYSTEM IN VALVE BOX.



1 LOWER LEVEL - PRESSURE PLAN
1/8" = 1'-0"

0 1/8" 1/4" 1/2" 1"

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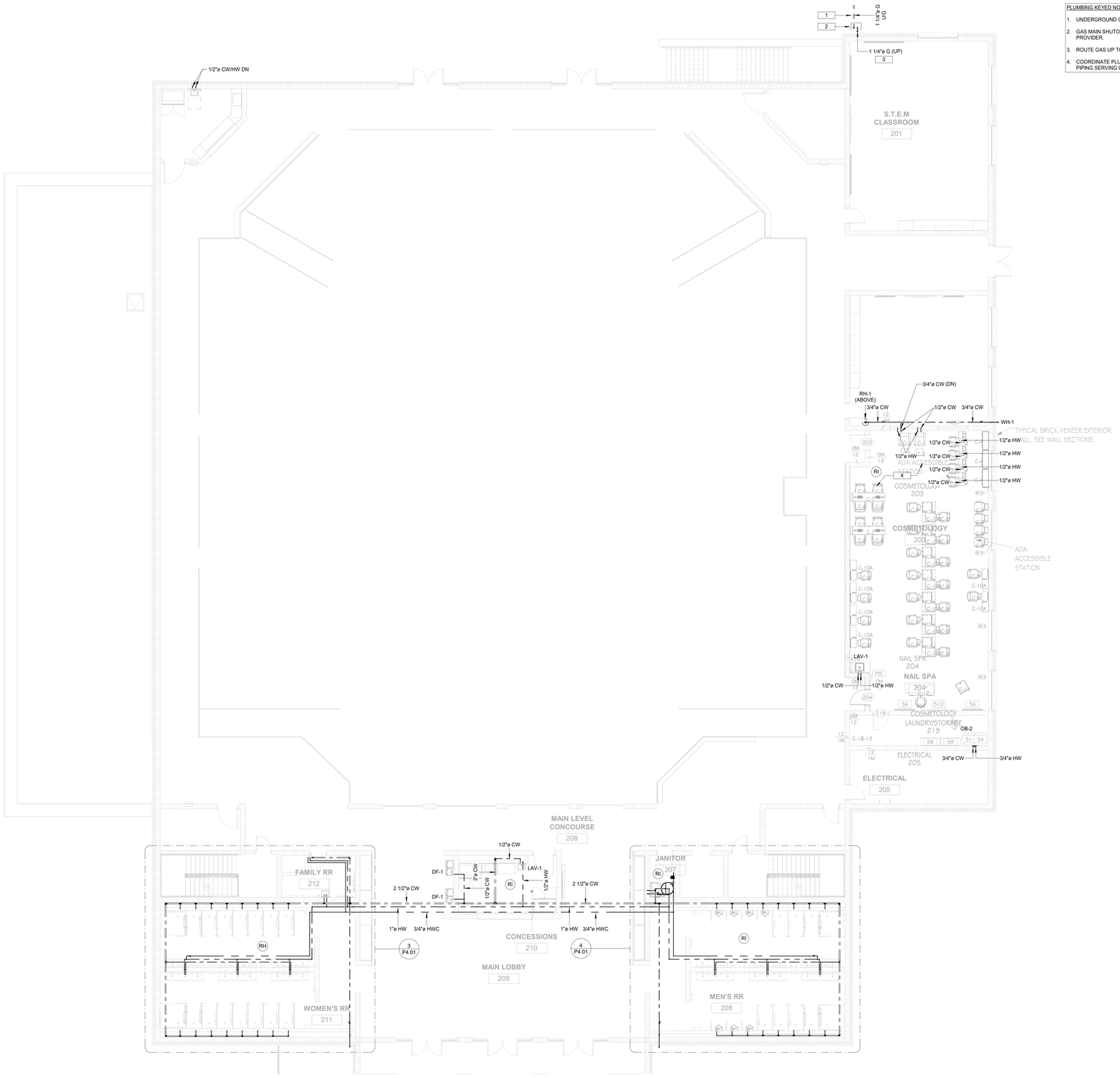
PLUMBING KEYED NOTES:

1. UNDERGROUND GAS SERVICE CONTINUATION BY OTHERS.
2. GAS MAIN SHUTOFF VALVE, GAS METER AND SERVICE PRESSURE REGULATOR BY GAS PROVIDER.
3. ROUTE GAS UP TO ROOF TO SERVE MECHANICAL EQUIPMENT.
4. COORDINATE PLUMBING CONNECTIONS WITH FIXTURES IN CLASSROOM. PRESSURE PIPING SERVING CLASSROOMS SHALL COME FROM FLOOR BELOW.



1 MAIN LEVEL - PRESSURE PLAN
1/8" = 1'-0"

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PLUMBING PRESSURE PLAN - MAIN LEVEL

P1.05

11/14/2024 11:12:16 AM TEMPLATE VERSION: 2022.1

PLUMBING PRESSURE PLAN - UPPER LEVEL

P1.06

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GMC AHUN230009

ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: JHS
CHECKED BY: ARH

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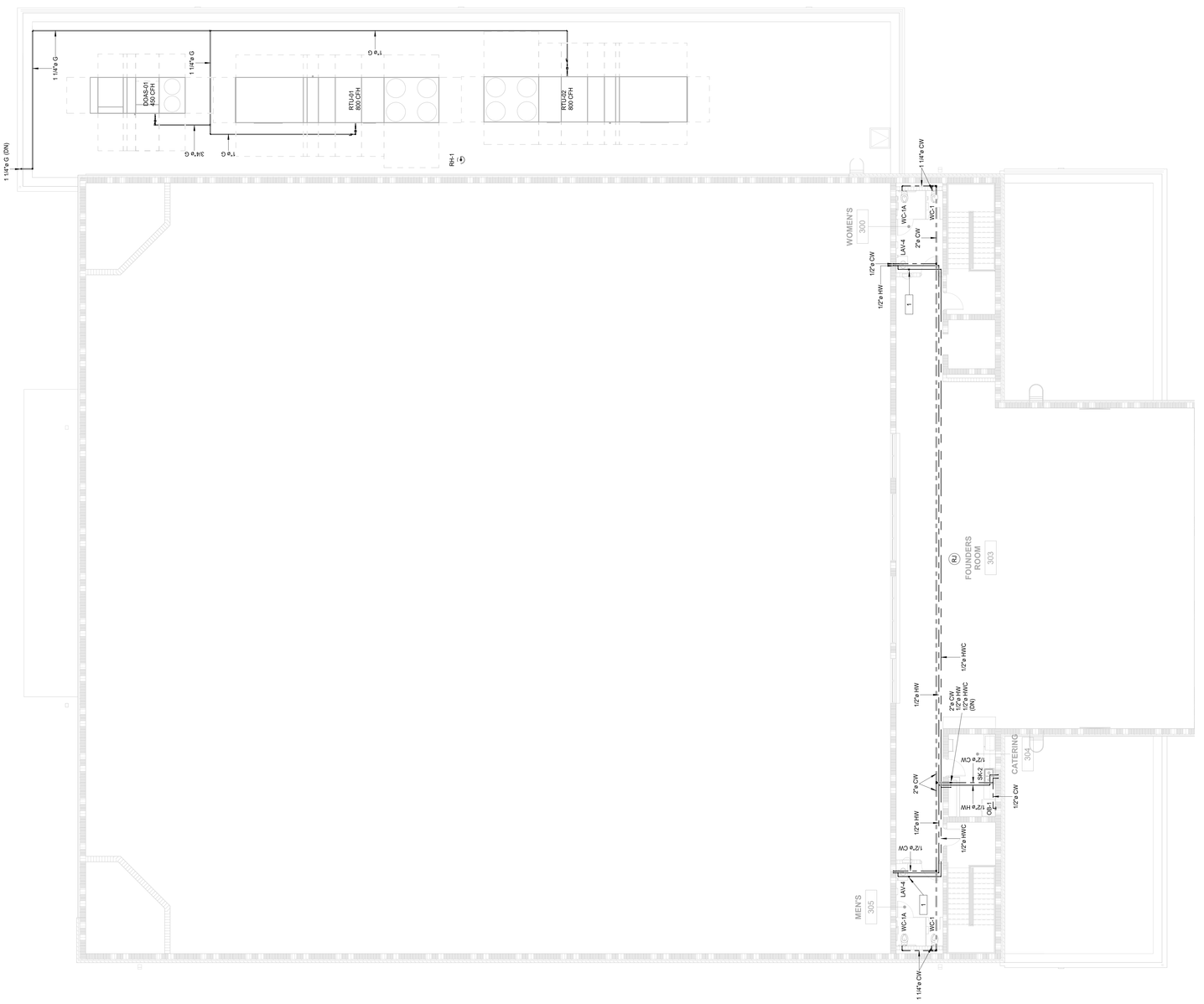
PLUMBING KEYED NOTES:

1. ADJUST CIRCUIT SETTER TO DELIVER 0.5 GALLONS PER MINUTE TO LIMIT FLOW VELOCITY TO 2 FEET PER SECOND IN PEX HOT WATER CIRCULATING PIPING.



1 UPPER LEVEL - PRESSURE PLAN
1/8" = 1'-0"

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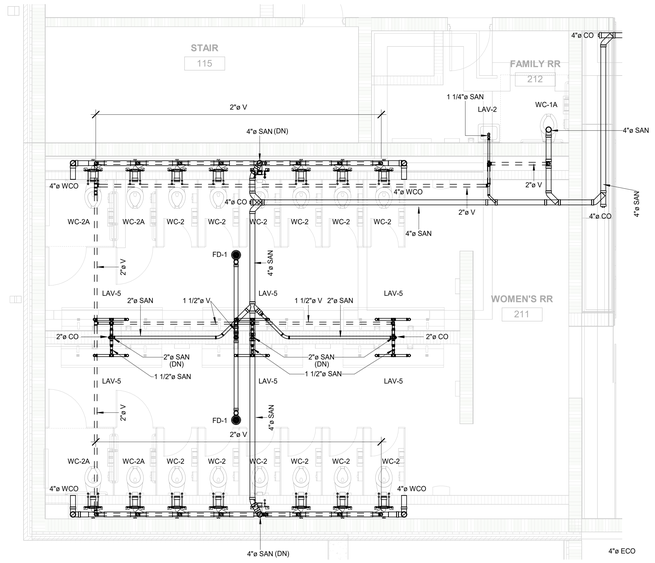
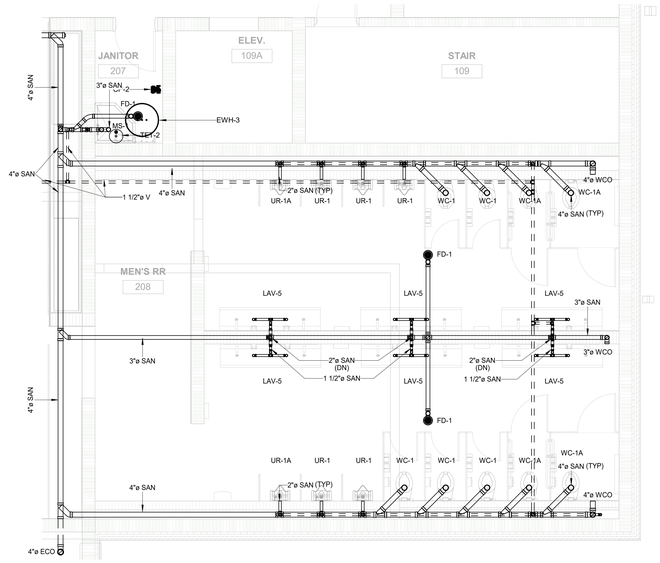


1 MAIN LEVEL - GRAVITY ENLARGED PLAN - WOMEN'S RESTROOM
1/4" = 1'-0"



2 MAIN LEVEL - GRAVITY ENLARGED PLAN - MEN'S RESTROOM
1/4" = 1'-0"

3 MAIN LEVEL - PRESSURE ENLARGED PLAN - WOMEN'S RESTROOM
1/4" = 1'-0"

4 MAIN LEVEL - PRESSURE ENLARGED PLAN - MEN'S RESTROOM
1/4" = 1'-0"

5 LOWER LEVEL - GRAVITY ENLARGED PLAN - FIRE RISER & STORAGE
1/4" = 1'-0"

6 LOWER LEVEL - GRAVITY ENLARGED PLAN - TYPICAL GIRL'S LOCKER ROOM
1/4" = 1'-0"

7 LOWER LEVEL - GRAVITY ENLARGED PLAN - TYPICAL BOY'S LOCKER ROOM
1/4" = 1'-0"

8 LOWER LEVEL - PRESSURE ENLARGED PLAN - FIRE RISER & STORAGE
1/4" = 1'-0"

9 LOWER LEVEL - PRESSURE ENLARGED PLAN - TYPICAL GIRL'S LOCKER ROOM
1/4" = 1'-0"

10 LOWER LEVEL - PRESSURE ENLARGED PLAN - TYPICAL BOY'S LOCKER ROOM
1/4" = 1'-0"

PLUMBING KEYED NOTES:

1. PROVIDE PRESSURE REDUCING VALVE STATION AT START OF DOMESTIC WATER DISTRIBUTION SYSTEM IN FIRE RISER ROOM. COORDINATE LOCATION WITH WORK BY OTHERS.
2. ADJUST CIRCUIT SETTER TO DELIVER 0.5 GALLONS PER MINUTE TO LIMIT FLOW VELOCITY TO 2 FEET PER SECOND IN PEX HOT WATER CIRCULATING PIPING.

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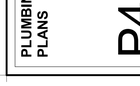
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009



PLUMBING ENLARGED PLANS

P4.01

0 2' 4' 8' 12'
1/4" = 1'-0"

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ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	AREA(S) SERVED	STORAGE VOLUME (GAL)	RECOVERY (AT 85°F RISE) (GPH)	INPUT KW	VOLTAGE/PHASE	FLA	DIAMETER x HEIGHT (IN)	SHIPPING WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
EWH-1	STORAGE 122	LOWER LEVEL	120	57.5	12	480/3	15.1	29-3/8x62-7/16	326	A. O. SMITH	DEN-120	1,2
EWH-2	STORAGE 122	LOWER LEVEL	120	57.5	12	480/3	15.1	29-3/8x62-7/16	326	A. O. SMITH	DEN-120	1,2
EWH-3	JANITOR 207	MAIN LEVEL & UPPER LEVEL	120	43.5	9	480/3	11.3	29-3/8x62-7/16	326	A. O. SMITH	DEN-120	1

NOTES:

1. SET STORAGE TEMPERATURE TO 140°F.
2. WATER HEATERS SHALL BE PIPED IN PARALLEL WITH INLET AND OUTLET PIPING ARRANGED SO THAT AN EQUAL FLOW IS RECEIVED FROM EACH HEATER UNDER ALL DEMAND CONDITIONS.

DOMESTIC HOT WATER CIRCULATOR PUMP SCHEDULE

MARK	LOCATION	MAX. FLOW RATE (GPM)	MAX. ΔP (FT. H2O)	MOTOR: MAX. RPM	MOTOR: MAX. POWER (W)	MOTOR: MAX. AMP	MOTOR: VOLT / PH	MANUFACTURER	MODEL	NOTES
CP-1	STORAGE 122	1.5	34	4,300	170	1.48	115 / 1	TACO	0034e	1 THROUGH 8
CP-2	JANITOR 207	2	34	4,300	170	1.48	115 / 1	TACO	0034e	1 THROUGH 8

NOTES:

1. MAXIMUM FLOW VELOCITY THROUGH ANY HOT WATER CIRCULATING PEX PIPING SHALL BE 2 FEET PER SECOND OR LESS.
2. ADJUST CIRCULATOR TO MATCH SYSTEM REQUIREMENTS. REFER TO PLANS FOR FLOW RATE THROUGH EACH CIRCUIT SETTER. CIRCULATOR FLOW RATE SHOULD EQUAL THE SUMMATION OF EACH CIRCUIT SETTER FLOW RATE IN THE SYSTEM.
3. PUMP SHALL COME WITH ITS OWN POWER CORD.
4. PROVIDE FITTINGS FOR CONNECTION TO PEX PIPING SYSTEM.
5. PROVIDE ISOLATION VALVES AND PRESSURE GAUGES UP/DOWNSTREAM OF PUMP.
6. PROVIDE INLINE, LOW PRESSURE DROP CHECK VALVE DOWNSTREAM OF PUMP.
7. PROVIDE STRAINER UPSTREAM OF PUMP.
8. PROVIDE WITH 7 DAY DIGITAL, PROGRAMMABLE TIMER AND AQUASTAT. SET AQUASTAT TO TURN PUMP ON WHEN SYSTEM TEMPERATURE REACHES 120°F.

THERMAL EXPANSION TANK SCHEDULE

MARK	TYPE	MIN. ACCEPTANCE VOLUME (GAL.)	MIN. STORAGE VOLUME (GAL.)	DIAMETER x HEIGHT (IN)	SYSTEM CONN. SIZE (IN)	WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
TET-1	DIAPHRAGM	11.22	16.5	15 x 25	3/4	48	AMTROL	ST-30VC-DD	1
TET-2	DIAPHRAGM	3.2	6.4	12 x 18	3/4	26	AMTROL	ST-12C-DD	1

NOTES:

1. WITH TANK EMPTY OF WATER, ADJUST PRE-CHARGE TO MATCH COLD WATER SUPPLY PRESSURE.

ELEVATOR SUMP PUMP SCHEDULE

MARK	GPM	HEAD (FT. H2O)	SHUTOFF HEAD (FT. H2O)	MAX. RPM	HP	VOLT / PH	MANUFACTURER	MODEL	NOTES
SP-1	50	20	35	3,450	1/2	115 / 1	STANCOR	SE-50	1,2

NOTES:

1. PROVIDE COMPLETE ELEVATOR SUMP PUMP SYSTEM INCLUDING SUBMERSIBLE PUMP, SOLENOID VALVES WITH 115V ACTUATORS, AND CONTROL SYSTEM WITH ALL FLOAT SENSORS AND PANELS.
2. CONTROL SYSTEM SHALL HAVE HIGH LEVEL ALARM TO ALERT OWNER OF FAILED PUMP.

BUILDING NATURAL GAS DEMAND

GAS SERVICE INLET PRESSURE: 2.0 PSIG

EQUIPMENT	INPUT LOAD (BTU/H)	INPUT FLOW RATE (CFH)	INPUT PRESSURE (IN. W.G.)
DOAS-01	450,000	450	5 - 14
RTU-01	800,000	800	7 - 14
RTU-02	800,000	800	7 - 14

NOTES:

A. ASSUMING AVAILABLE NATURAL GAS HAS A HEATING VALUE OF 1,000 BTU/FT³ AND SPECIFIC GRAVITY OF 0.6.
B. CONFIRM WITH SUBMITTED EQUIPMENT MANUFACTURER THE ACTUAL GAS INPUT FLOW RATE AND PRESSURE REQUIREMENTS.
C. GAS PIPE SIZES SHOWN ON FLOOR PLAN ARE BASED ON 2.0 PSI INLET SERVICE PRESSURE, 1.0 PSI PRESSURE DROP, AND SCHEDULE 40 METALLIC PIPE WITH THREADED FITTINGS.

WHA SCHEDULE

ARRESTOR SIZE	WSFU	PDI-WH 201
1/2"	1-11	PDI-A
3/4"	12-32	PDI-B
1"	33-60	PDI-C
1-1/4"	61-133	PDI-D
1-1/2"	114-154	PDI-E
2"	155-330	PDI-F

NOTES:

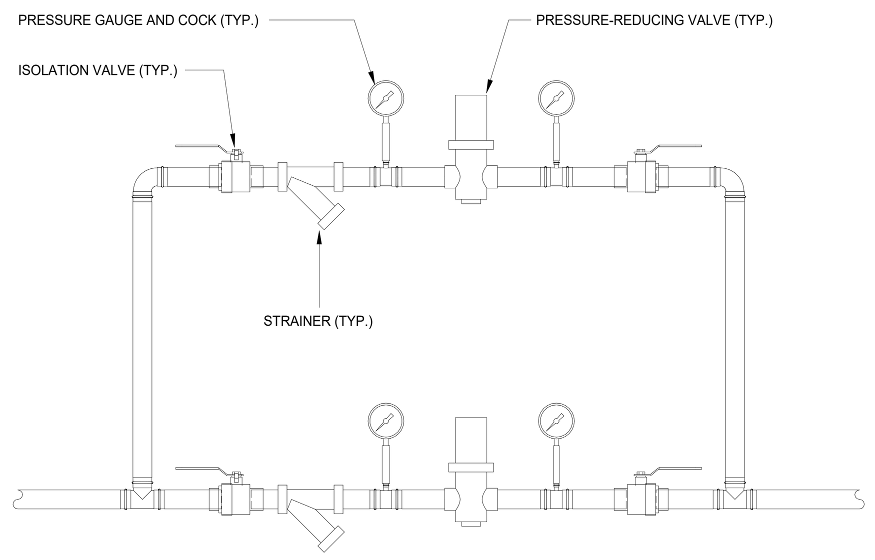
A. ALL ARRESTORS SHALL BE SIZED AND INSTALLED PER PDI STANDARD PDI-WH 201 (2017).

PLUMBING FIXTURE SCHEDULE

MARK	TYPE	MOUNTING	ADA REQUIRED	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
DF-1	WATER-COOLER DRINKING FOUNTAIN	WALL-MOUNT	YES	ELKAY	LZSTL8WSLK	WATER COOLER: BI-LEVEL, BOTTLE FILLING STATION, FILTERED, REFRIGERATED, FRONT & SIDE PUSHBAR ACTIVATION, LIGHT GRAY GRANITE FINISH
LAV-1	LAVATORY	WALL-MOUNT	YES	SLOAN	SS-3065	LAVATORY: VITREOUS CHINA, 20"x21-1/2"x5-3/4", WITH OVERFLOW, WITH WALL HANGER, 4" CENTERSET, WHITE FAUCET: KOHLER—MODEL K-28124-4N-CP: 4" CENTERSET, LEVER HANDLES, 0.5 GPM, POLISHED CHROME DRAIN: PROVIDE GRID DRAIN, POLISHED CHROME P-TRAP MIXING VALVE: WATTS—MODEL LFUSG-B M3
LAV-2	LAVATORY	WALL-MOUNT	YES	SLOAN	SS-3065	LAVATORY: VITREOUS CHINA, 20"x21-1/2"x5-3/4", WITH OVERFLOW, WITH WALL HANGER, 4" CENTERSET, WHITE FAUCET: SLOAN—MODEL SF-2300: 4" CENTERSET, HARDWIRED POWERED, INFRARED SENSOR, 0.5 GPM, POLISHED CHROME DRAIN: PROVIDE GRID DRAIN, POLISHED CHROME P-TRAP MIXING VALVE: WATTS—MODEL LFUSG-B M3
LAV-3	LAVATORY	UNDERMOUNT	YES	SLOAN	SS-3001	LAVATORY: VITREOUS CHINA, 16-1/2"x19-1/2"x7-1/2", WITH OVERFLOW, WHITE FAUCET: KOHLER—MODEL K-28124-4N-CP: 4" CENTERSET, LEVER HANDLES, 0.5 GPM, POLISHED CHROME DRAIN: PROVIDE GRID DRAIN, POLISHED CHROME P-TRAP MIXING VALVE: WATTS—MODEL LFUSG-B M3
LAV-4	LAVATORY	UNDERMOUNT	YES	SLOAN	SS-3001	LAVATORY: VITREOUS CHINA, 16-1/2"x19-1/2"x7-1/2", WITH OVERFLOW, WHITE FAUCET: SLOAN—MODEL SF-2300: 4" CENTERSET, HARDWIRED POWERED, INFRARED SENSOR, 0.5 GPM, POLISHED CHROME DRAIN: PROVIDE GRID DRAIN, POLISHED CHROME P-TRAP MIXING VALVE: WATTS—MODEL LFUSG-B M3
LAV-5	LAVATORY	WALL-MOUNT	YES	BRADLEY	TLX-3	LAVATORY: VITREOUS CHINA, 20"x21-1/2"x5-3/4", WITH OVERFLOW, WITH WALL HANGER, 4" CENTERSET, WHITE FAUCET: BRADLEY—MODEL S53-3100: SINGLE HOLE, HARDWIRED POWERED, INFRARED SENSOR, 0.5 GPM, POLISHED CHROME DRAIN: PROVIDE GRID DRAIN, PROVIDE COMBINED WASTE ASSEMBLY AND POLISHED CHROME P-TRAP MIXING VALVE: WATTS—MODEL LFUSG-B M3
MS-1	MOP SINK	FLOOR-MOUNT	NO	ZURN	Z1996-24	MOP SINK: 24"x24"x10", MOLDED HIGH DENSITY COMPOSITE BASIN, STAINLESS STEEL DRAIN AND STRAINER FAUCET: ZURN—MODEL Z1996-SF: WALL-MOUNT, CHROME-PLATED, INTEGRAL STOPS, VACUUM BREAKER, ADJUSTABLE WALL BRACE, PAIL HOOK, 3/4" HOSE THREAD
OB-1	ICE MAKER SUPPLY BOX	WALL-MOUNT	NO	OATEY	39152	SUPPLY BOX: WHITE, HIGH IMPACT POLYSTYRENE, SQUARE BOX W/ SUPPORT BRACKETS. VALVE: 1/4"ø, BRASS, QUARTER TURN SHUT OFF VALVE W/ COPPER TAILPIECE AND WATER HAMMER ARRESTOR.
OB-2	WASHING MACHINE SUPPLY BOX	WALL-MOUNT	NO	OATEY	38540	SUPPLY BOX: WHITE, HIGH IMPACT POLYSTYRENE BOX W/ SUPPORT BRACKETS AND 2"ø DRAIN OPENING. VALVE: 3/4"ø, BRASS, QUARTER TURN COLD & HOT WATER SHUT OFF VALVES W/ COPPER TAILPIECE AND WATER HAMMER ARRESTORS.
RH-1	NON-FREEZE ROOF HYDRANT	ROOF-MOUNT	NO	ZURN	Z1388XL	ROOF HYDRANT: LEAD-FREE, NON-FREEZE, CAST IRON HEAD AND LIFT HANDLE, GALVANIZED STEEL CASING, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS, 3/4"ø INLET CONNECTION W/ 1/8"ø DRAIN PORT, 3/4"ø MALE HOSE CONNECTION, CAST IRON SUPPORT SLEEVE WITH WIDE ANCHORING FLANGE AND CLAMP COLLAR
SH-1	SHOWER	WALL-MOUNT	YES	SYMMONS	DIA 3503-H321-V-CYL-B-TRM	TRIM: HAND SHOWER, 30" SLIDE BAR, 60" FLEXIBLE METAL HOSE, 1.5 GPM FLOW RESTRICTOR, POLISHED CHROME FINISH VALVE: SYMMONS—MODEL 262XBODY: PRESSURE BALANCING TYPE, INTEGRAL SERVICE STOPS, PROVIDE WITH WALL BRACKET
SK-1	SINGLE COMPARTMENT SINK	UNDERMOUNT	YES	KOHLER	VAULT K-3894-4	SINK: 18 GAUGE STAINLESS STEEL, 22-1/4"x16-9/16"x6" BOWL, 3 HOLE ON 4" CENTERS PLUS 1 ACCESSORY HOLE FAUCET: KOHLER—MODEL K-22972: SINGLE LEVER, PULL-DOWN WITH THREE-FUNCTION SPRAYHEAD, 1.5 GPM, CHROME-PLATED DRAIN: 3-3/4" DRAIN, 304 STAINLESS STEEL BODY, STRAINER BASKET
SK-2	SINGLE COMPARTMENT SINK	UNDERMOUNT	YES	KOHLER	VAULT K-25939	SINK: 18 GAUGE STAINLESS STEEL, 30-1/4"x16-9/16"x5-1/2" BOWL FAUCET: KOHLER—MODEL K-22972: SINGLE LEVER, PULL-DOWN WITH THREE-FUNCTION SPRAYHEAD, 1.5 GPM, CHROME-PLATED DRAIN: 3-5/8" DRAIN, 304 STAINLESS STEEL BODY, STRAINER BASKET
SK-3	SINGLE COMPARTMENT SINK	DROP-IN	NO	KOHLER	CURSIVA K-RH28176-1PC	SINK: 18 GAUGE STAINLESS STEEL, 24"x16-1/8"x9" BOWL FAUCET: SINGLE LEVER, PULL-DOWN WITH TWO-FUNCTION SPRAYHEAD, 1.5 GPM, VIBRANT STAINLESS STEEL DRAIN: 3-5/8" DRAIN, 304 STAINLESS STEEL BODY, STRAINER BASKET
TP-1	TRAP PRIMER	PIPE-MOUNT	NO	PRECISION PLUMBING PRODUCTS	CPO-500 DU-4	PRIMER: AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER, REQUIRES 10 PSI PRESSURE DROP ACROSS VALVE, INSTALL ON 1/2" - 1-1/2" CW PIPE SERVING FLUSHOMETER VALVE PROVIDE PRIMER W/ DISTRIBUTION UNIT WHEN PRIMING 2-4 FLOOR DRAINS, OTHERWISE PROVIDE JUST PRIMER
TP-2	TRAP PRIMER	PIPE-MOUNT	NO	PRECISION PLUMBING PRODUCTS	PRO1-ULP500	PRIMER: FLOW ACTIVATED TRAP PRIMER, VACUUM BREAKER PORTS, INTERNAL BACKFLOW PROTECTION, INSTALL UNDER LAVATORY/SINK
UR-1	URINAL	WALL-MOUNT	NO	SLOAN	SU-1009	URINAL: STANDARD HEIGHT, 0.5 GALLONS PER FLUSH, VITREOUS CHINA, 3/4" TOP SPUD, WASHDOWN, PROVIDE WALL CARRIER, WHITE FLUSH VALVE: SLOAN—MODEL 186 SFSM-0.5-TMO: BATTERY POWERED, INFRARED SENSOR, DIAPHRAGM VALVE, MECHANICAL OVERRIDE, CHROME-PLATED
UR-1A	URINAL	WALL-MOUNT	YES	SLOAN	SU-1009	URINAL: ADA HEIGHT, 0.5 GALLONS PER FLUSH, VITREOUS CHINA, 3/4" TOP SPUD, WASHDOWN, PROVIDE WALL CARRIER, WHITE FLUSH VALVE: SLOAN—MODEL 186 SFSM-0.5-TMO: BATTERY POWERED, INFRARED SENSOR, DIAPHRAGM VALVE, MECHANICAL OVERRIDE, CHROME-PLATED
WC-1	FLUSH VALVE WATER CLOSET	FLOOR-MOUNT	NO	SLOAN	ST-2009	WATER CLOSET: STANDARD HEIGHT, 1.28 GALLONS PER FLUSH, VITREOUS CHINA, 1-1/2" TOP SPUD, SIPHON JET ACTION, 12" ROUGH-IN, WHITE FLUSH VALVE: SLOAN—MODEL 111 SFSM-1.28-TMO: BATTERY POWERED, INFRARED SENSOR, DIAPHRAGM VALVE, MECHANICAL OVERRIDE, CHROME-PLATED SEAT: WHITE PLASTIC, ELONGATED SHAPE, OPEN FRONT, LESS COVER
WC-1A	FLUSH VALVE WATER CLOSET	FLOOR-MOUNT	YES	SLOAN	ST-2029	WATER CLOSET: ADA HEIGHT, 1.28 GALLONS PER FLUSH, VITREOUS CHINA, 1-1/2" TOP SPUD, SIPHON JET ACTION, 12" ROUGH-IN, WHITE FLUSH VALVE: SLOAN—MODEL 111 SFSM-1.28-TMO: BATTERY POWERED, INFRARED SENSOR, DIAPHRAGM VALVE, MECHANICAL OVERRIDE, CHROME-PLATED SEAT: WHITE PLASTIC, ELONGATED SHAPE, OPEN FRONT, LESS COVER
WC-2	FLUSH VALVE WATER CLOSET	WALL-MOUNT	NO	SLOAN	ST-2459	WATER CLOSET: STANDARD HEIGHT, 1.28 GALLONS PER FLUSH, VITREOUS CHINA, 1-1/2" TOP SPUD, SIPHON JET ACTION, WHITE FLUSH VALVE: SLOAN—MODEL 111 SFSM-1.28-TMO: BATTERY POWERED, INFRARED SENSOR, DIAPHRAGM VALVE, MECHANICAL OVERRIDE, CHROME-PLATED SEAT: WHITE PLASTIC, ELONGATED SHAPE, OPEN FRONT, LESS COVER
WC-2A	FLUSH VALVE WATER CLOSET	WALL-MOUNT	YES	SLOAN	ST-2459	WATER CLOSET: ADA HEIGHT, 1.28 GALLONS PER FLUSH, VITREOUS CHINA, 1-1/2" TOP SPUD, SIPHON JET ACTION, WHITE FLUSH VALVE: SLOAN—MODEL 111 SFSM-1.28-TMO: BATTERY POWERED, INFRARED SENSOR, DIAPHRAGM VALVE, MECHANICAL OVERRIDE, CHROME-PLATED SEAT: WHITE PLASTIC, ELONGATED SHAPE, OPEN FRONT, LESS COVER
WH-1	NON-FREEZE WALL HYDRANT	WALL-MOUNT	NO	ZURN	Z1321	WALL HYDRANT: LEAD-FREE, NON-FREEZE, INTEGRAL BACKFLOW PREVENTER, COPPER CASING, BRONZE INTERIOR COMPONENTS, STAINLESS STEEL HOUSING, HINGED COVER W/ KEY, 3/4"ø MALE HOSE CONNECTION

PLUMBING DRAINAGE SPECIALTIES SCHEDULE

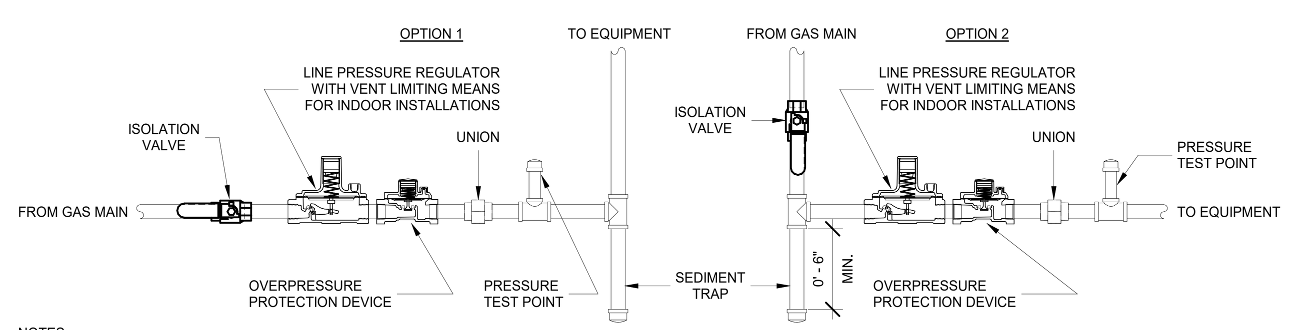
MARK	SPECIALTY	TYPE	MATERIAL	STYLE	PIPE CONNECTION SIZE	BASIS OF DESIGN: MANUFACTURER	BASIS OF DESIGN: MODEL	NOTES
FD-1	EMERGENCY FLOOR DRAIN	NO HUB	CAST IRON BODY / NICKEL BRONZE TOP	ROUND TOP POLISHED	3"	JAY R. SMITH	2005Y	CAST IRON BODY WITH BOTTOM OUTLET, FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, 6" ROUND TOP, 1/2" TRAP PRIMER CONNECTION, VANDAL PROOF
FD-2	SHOWER FLOOR DRAIN	NO HUB	CAST IRON BODY / NICKEL BRONZE TOP	SQUARE TOP POLISHED	2"	JAY R. SMITH	2005Y	CAST IRON BODY WITH BOTTOM OUTLET, FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, 5" x 5" SQUARE TOP, VANDAL PROOF



NOTES:

A. WHERE WATER PRESSURE WITHIN A BUILDING EXCEEDS 80 PSIG STATIC, AN APPROVED WATER PRESSURE-REDUCING VALVE CONFORMING TO ASSE 1003 OR CSA B356 WITH STRAINER SHALL BE INSTALLED TO REDUCE THE PRESSURE IN THE BUILDING WATER DISTRIBUTION PIPING TO NOT GREATER THAN 80 PSIG STATIC. EXCEPTIONS INCLUDE SERVICE LINES TO SILL COCKS AND OUTSIDE HYDRANTS.
B. THE PRESSURE-REDUCING VALVE SHALL BE DESIGNED TO REMAIN OPEN TO PERMIT UNINTERRUPTED WATER FLOW IN CASE OF VALVE FAILURE.
C. THE TOTAL CAPACITY OF THE VALVES SHOULD EQUAL OR EXCEED THE CAPACITY REQUIRED BY THE SYSTEM. ONE VALVE SHALL BE SET AT A 10 PSIG HIGHER DELIVERY PRESSURE THAN THE OTHER VALVE (I.E. ONE VALVE SET AT 60 PSIG AND THE OTHER VALVE SET AT 70 PSIG). WHEN LOW VOLUME IS REQUIRED, THE HIGHER-SET VALVE OPERATES ALONE. WHEN A LARGER VOLUME IS DEMANDED, BOTH VALVES OPEN, DELIVERING FULL-LINE CAPACITY.
D. THE PRESSURE-REDUCING VALVE STATION SHALL BE INSTALLED DOWNSTREAM OF THE WATER METER AND BACKFLOW PREVENTER.

(1) PRESSURE-REDUCING VALVE STATION DETAIL
NTS



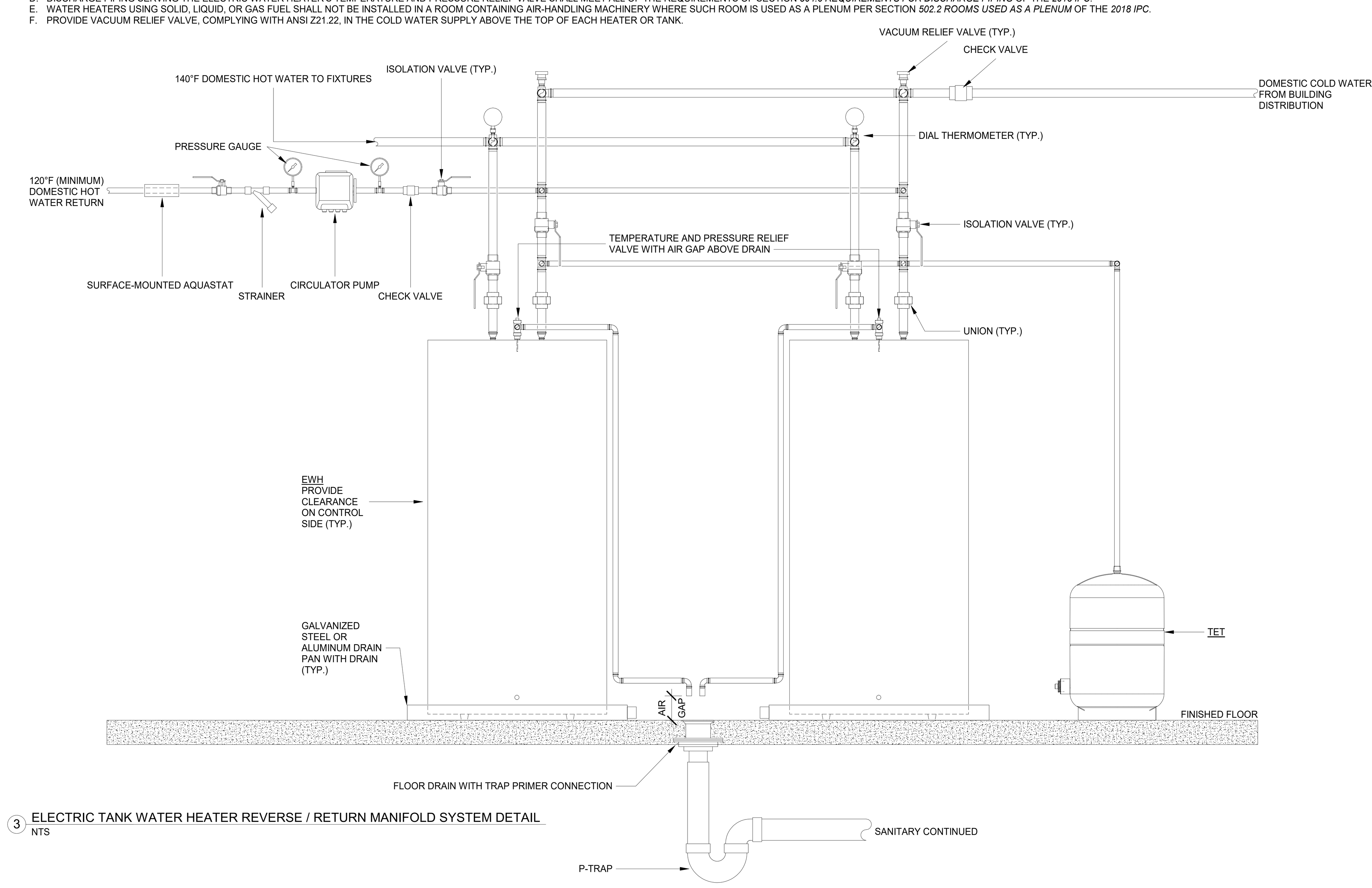
NOTES:

A. SEDIMENT TRAP SHALL CAUSE GAS FLOW TO CHANGE DIRECTION 90 DEGREES AT THE COLLECTION POINT.
B. SEDIMENT TRAP SHALL BE INSTALLED AS CLOSE TO THE INLET OF THE EQUIPMENT AS PRACTICAL.
C. ISOLATION VALVE SHALL BE INSTALLED UPSTREAM OF SEDIMENT TRAP.
D. LINE PRESSURE REGULATOR SHALL COMPLY WITH ANSI Z21.80.
E. OVERPRESSURE PROTECTION DEVICE SHALL BE REQUIRED WHERE THE SERVING GAS SUPPLIER DELIVERS GAS AT A PRESSURE GREATER THAN 2 PSI FOR PIPING SYSTEMS SERVING APPLIANCES DESIGNED TO OPERATE AT A GAS PRESSURE OF 14 INCHES W.C. OR LESS. PIPING SYSTEMS SERVING EQUIPMENT DESIGNED TO OPERATE AT INLET PRESSURES GREATER THAN 14 INCHES W.C. SHALL BE EQUIPPED WITH OVERPRESSURE PROTECTION DEVICES AS REQUIRED BY THE APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(2) GAS EQUIPMENT PIPING CONNECTION DETAIL
NTS

NOTES:

A. HEATERS INSTALLED IN PARALLEL SHALL HAVE SIMILAR SPECIFICATIONS: THE SAME INPUT AND STORAGE CAPACITY, WITH INLET AND OUTLET PIPING ARRANGED SO THAT AN EQUAL FLOW IS RECEIVED FROM EACH HEATER UNDER ALL DEMAND CONDITIONS. BALANCED, PARALLEL FLOW SHALL BE ACHIEVED USING REVERSE / RETURN PIPING: THE UNIT HAVING ITS INLET CLOSEST TO THE COLD WATER SUPPLY IS PIPED SO THAT ITS OUTLET IS FARTHEST FROM THE HOT WATER SUPPLY LINE.
B. AQUASTAT SHALL AUTOMATICALLY CONTROL CIRCULATOR PUMP. CIRCULATOR PUMP SHALL TURN ON WHEN WATER IN CIRCULATING PIPING IS 120°F OR BELOW AND SHALL TURN OFF WHEN WATER IN CIRCULATING PIPING IS ABOVE 120°F. MINIMUM WATER TEMPERATURE IN CIRCULATING PIPING SHALL BE SPECIFIED BY AUTHORITY HAVING JURISDICTION BUT IN NO CASE SHALL THE WATER TEMPERATURE IN CIRCULATING PIPING DROP BELOW 120°F.
C. WITH EXPANSION TANK EMPTY OF WATER, ADJUST PRE-CHARGE TO MATCH DOMESTIC COLD WATER SUPPLY PRESSURE BEFORE CONNECTING TO SYSTEM.
D. DISCHARGE PIPING SERVING THE ELECTRIC WATER HEATER'S TEMPERATURE AND PRESSURE RELIEF VALVE SHALL MEET ALL OF THE REQUIREMENTS OF SECTION *504.6 REQUIREMENTS FOR DISCHARGE PIPING* OF THE *2018 IPC*.
E. WATER HEATERS USING SOLID, LIQUID, OR GAS FUEL SHALL NOT BE INSTALLED IN A ROOM CONTAINING AIR-HANDLING MACHINERY WHERE SUCH ROOM IS USED AS A PLENUM PER SECTION *502.2 ROOMS USED AS A PLENUM* OF THE *2018 IPC*.
F. PROVIDE VACUUM RELIEF VALVE, COMPLYING WITH ANSI Z21.22, IN THE COLD WATER SUPPLY ABOVE THE TOP OF EACH HEATER OR TANK.



(3) ELECTRIC TANK WATER HEATER REVERSE / RETURN MANIFOLD SYSTEM DETAIL
NTS

NOTES:

A. AQUASTAT SHALL AUTOMATICALLY CONTROL CIRCULATOR PUMP. CIRCULATOR PUMP SHALL TURN ON WHEN WATER IN CIRCULATING PIPING IS 120°F OR BELOW AND SHALL TURN OFF WHEN WATER IN CIRCULATING PIPING IS ABOVE 120°F. MINIMUM WATER TEMPERATURE IN CIRCULATING PIPING SHALL BE SPECIFIED BY AUTHORITY HAVING JURISDICTION BUT IN NO CASE SHALL THE WATER TEMPERATURE IN CIRCULATING PIPING DROP BELOW 120°F.
B. WITH EXPANSION TANK EMPTY OF WATER, ADJUST PRE-CHARGE TO MATCH DOMESTIC COLD WATER SUPPLY PRESSURE BEFORE CONNECTING TO SYSTEM.
C. DISCHARGE PIPING SERVING THE ELECTRIC WATER HEATER'S TEMPERATURE AND PRESSURE RELIEF VALVE SHALL MEET ALL OF THE REQUIREMENTS OF SECTION *504.6 REQUIREMENTS FOR DISCHARGE PIPING* OF THE *2018 IPC*.
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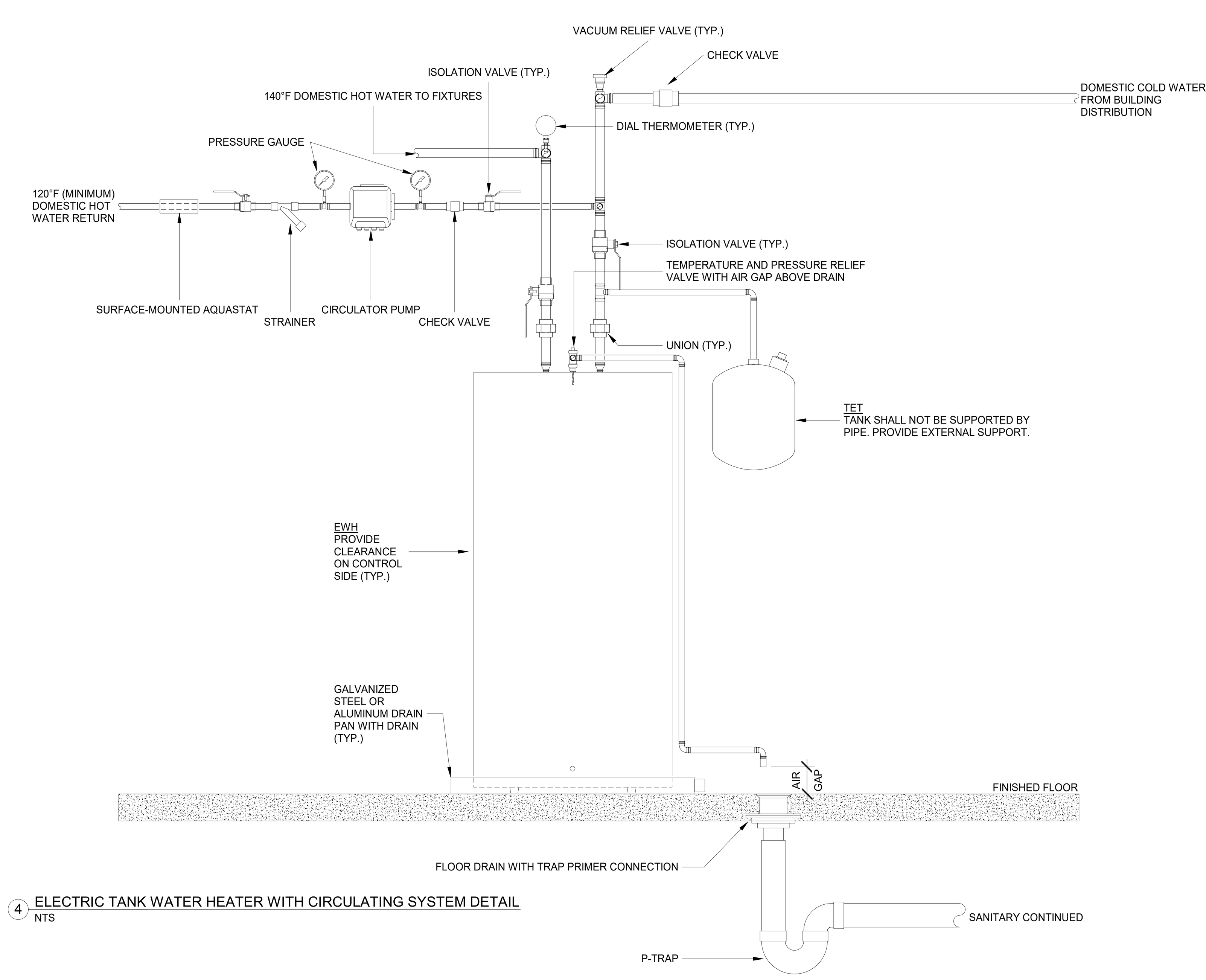

(4) ELECTRIC TANK WATER HEATER WITH CIRCULATING SYSTEM DETAIL
NTS

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: JHS
CHECKED BY: ARH

ALABAMA LICENSED No. 38810 PROFESSIONAL ENGINEER ANDREAS R. HAUN 11/14/2024

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

PLUMBING DETAILS & SCHEDULES

P6.01

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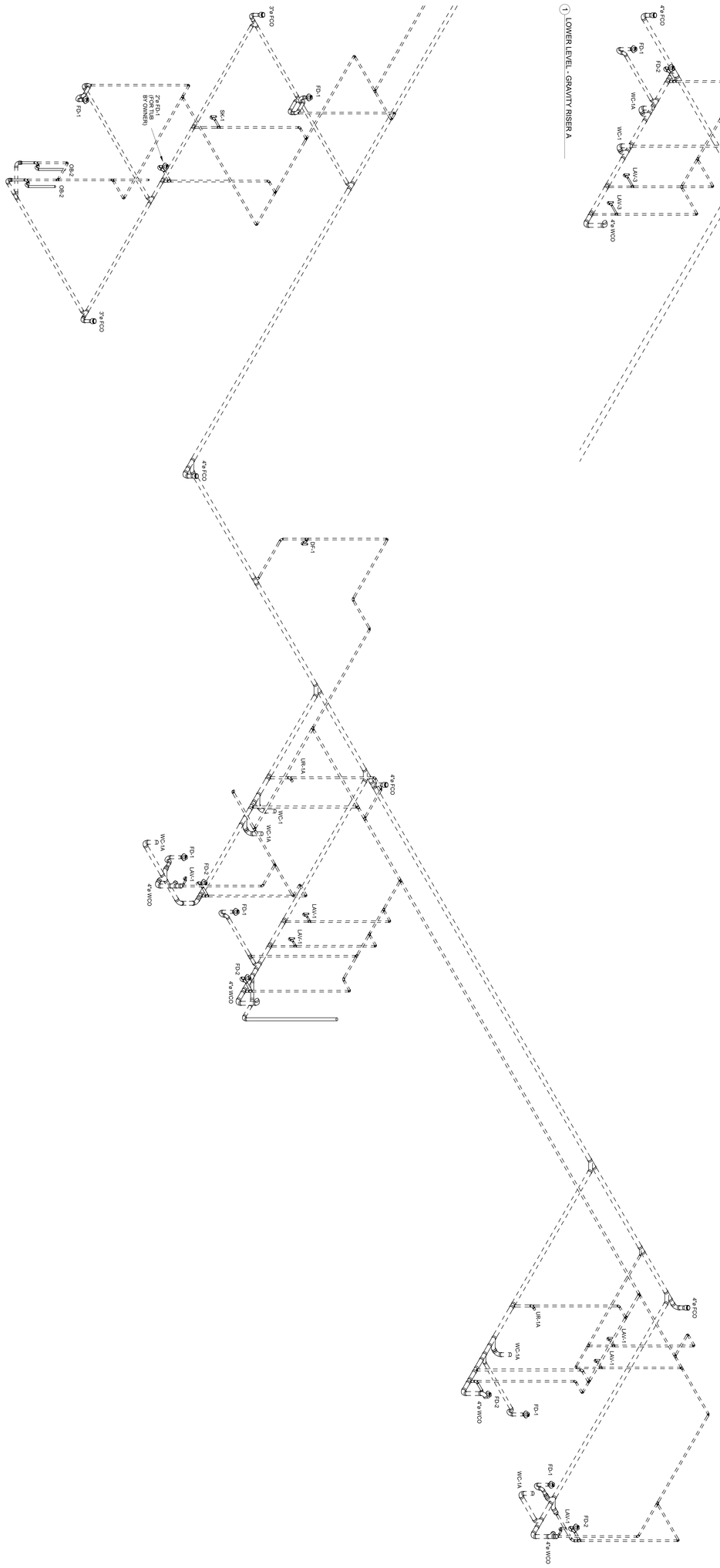

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PLUMBING ISOMETRICS

P9.01

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION

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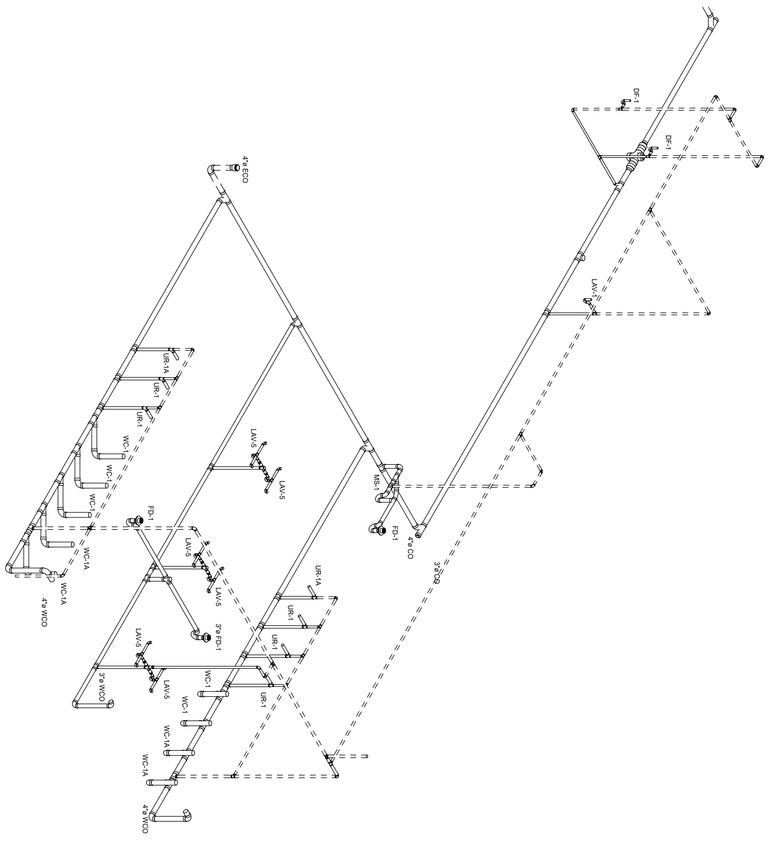

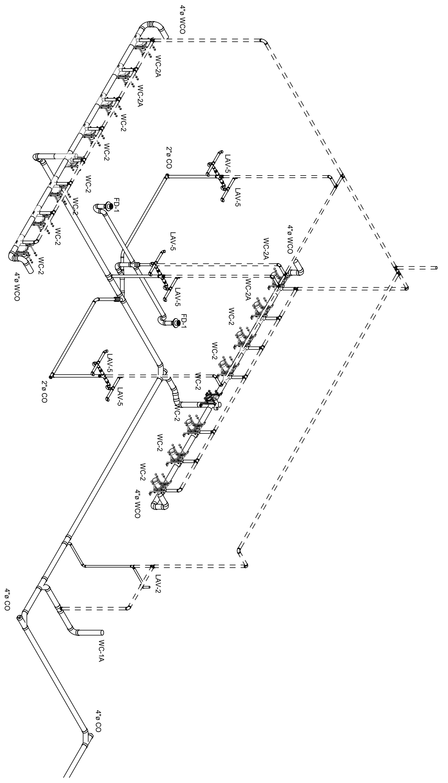

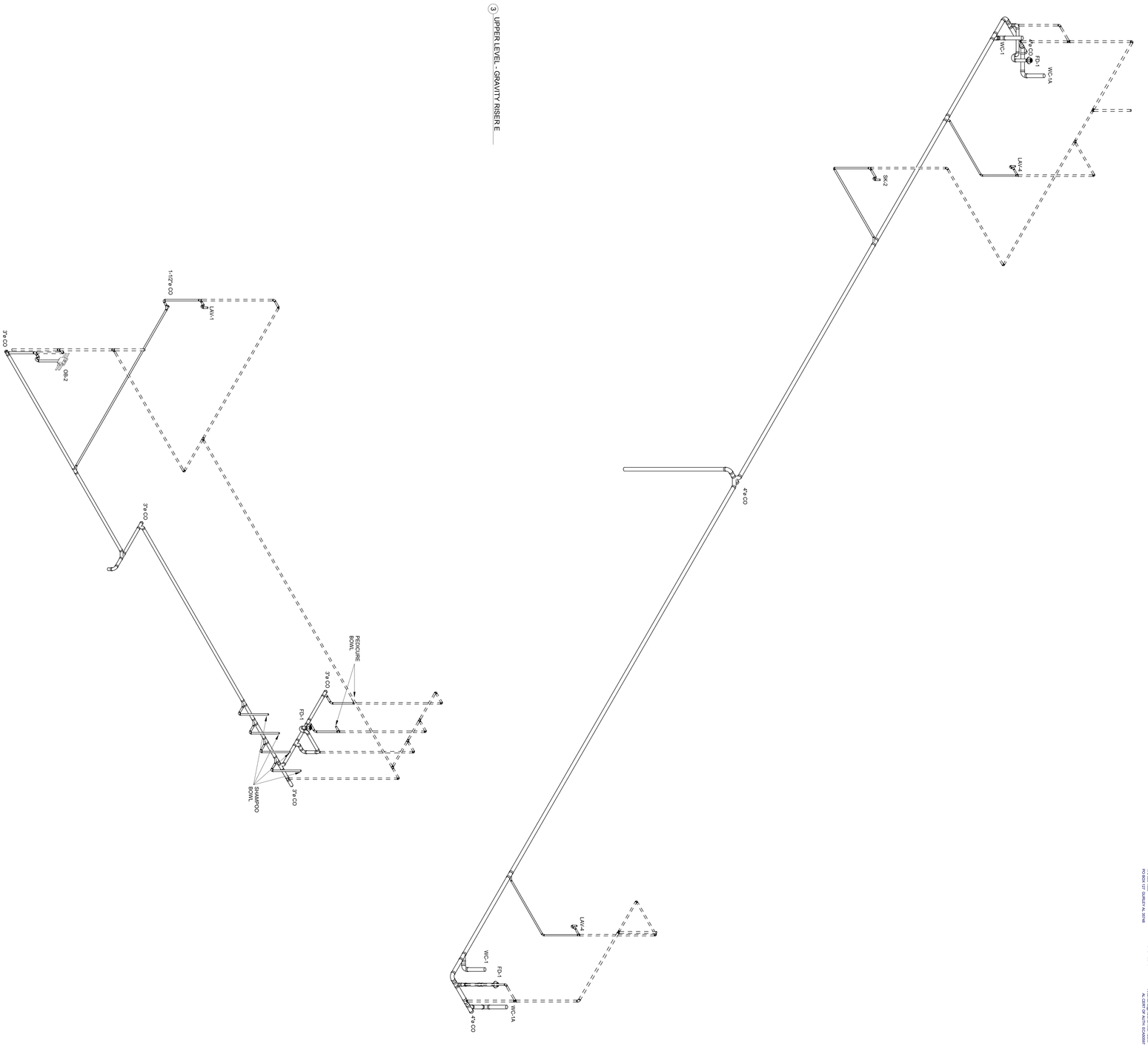

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PLUMBING ISOMETRICS

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION

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P9.02

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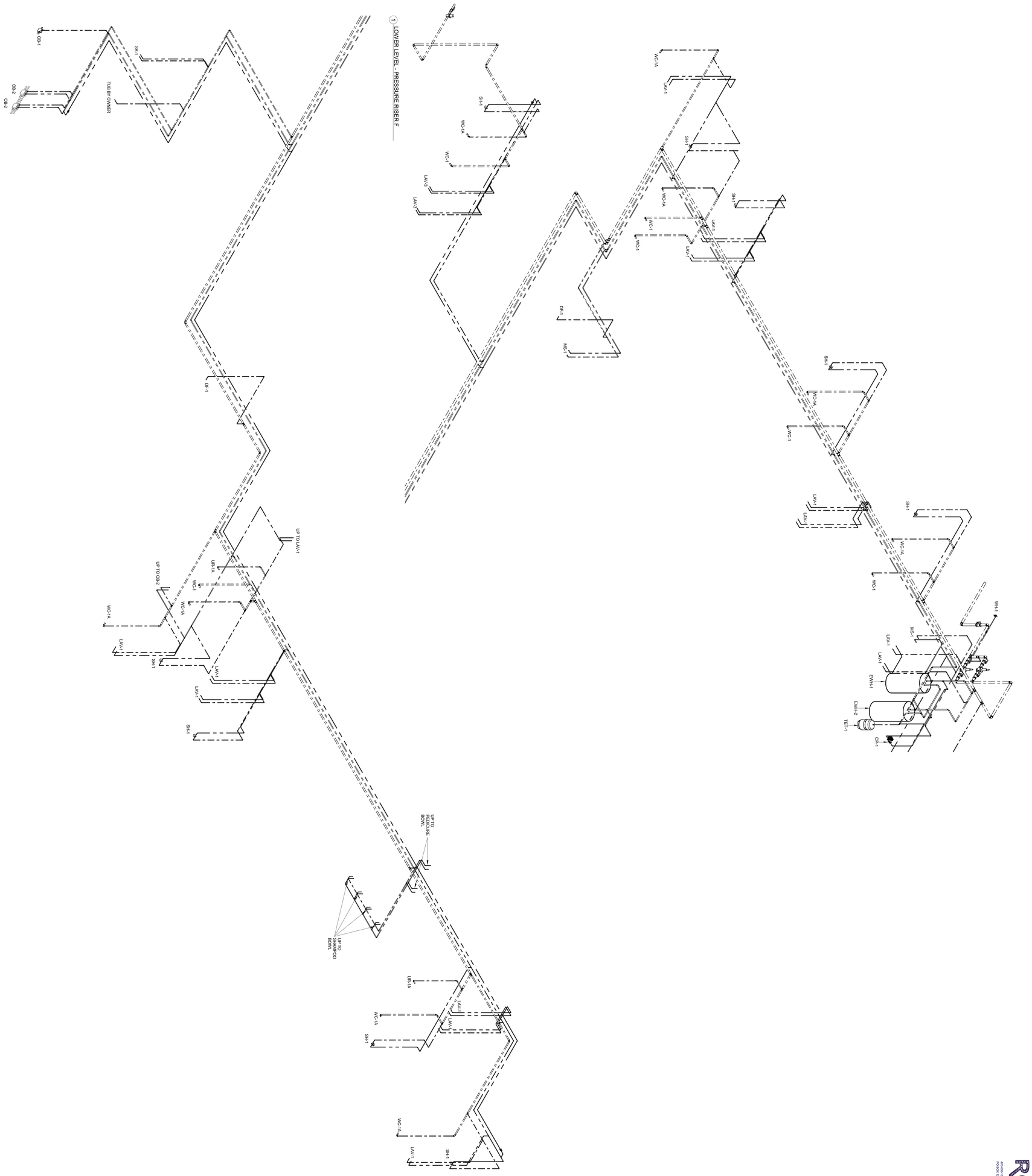

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PLUMBING ISOMETRICS

P9.03

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION

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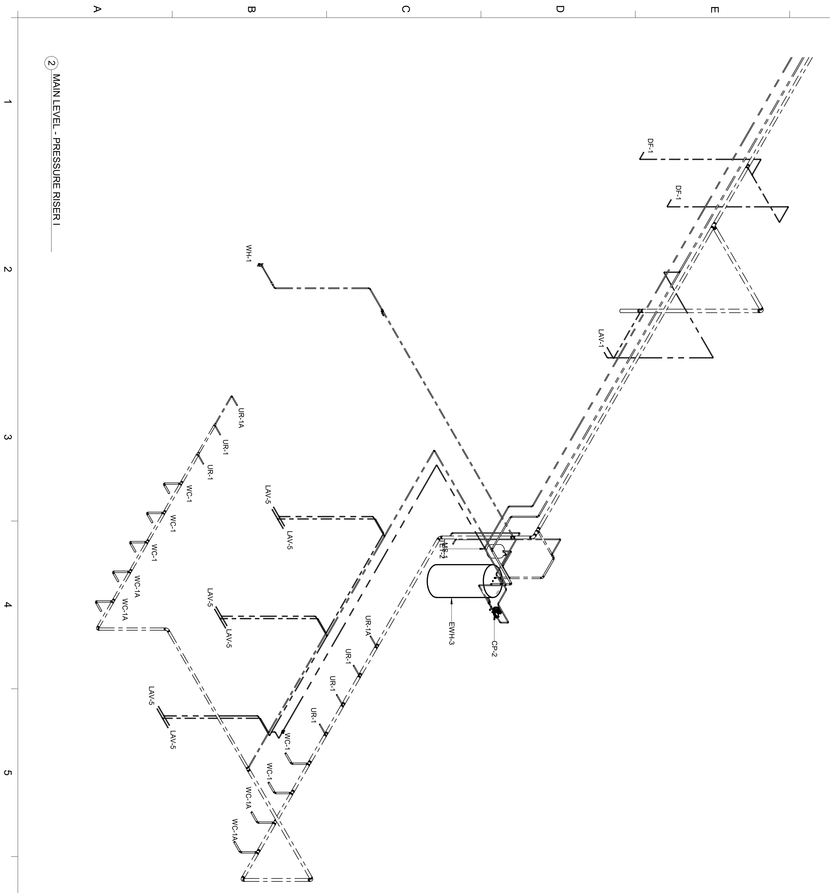
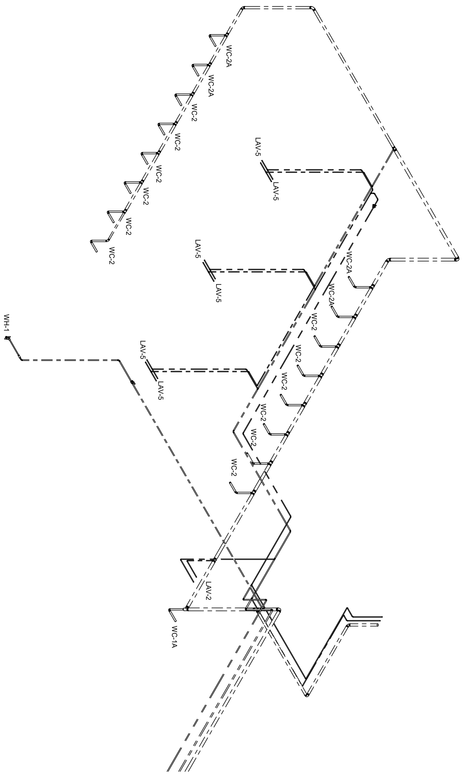
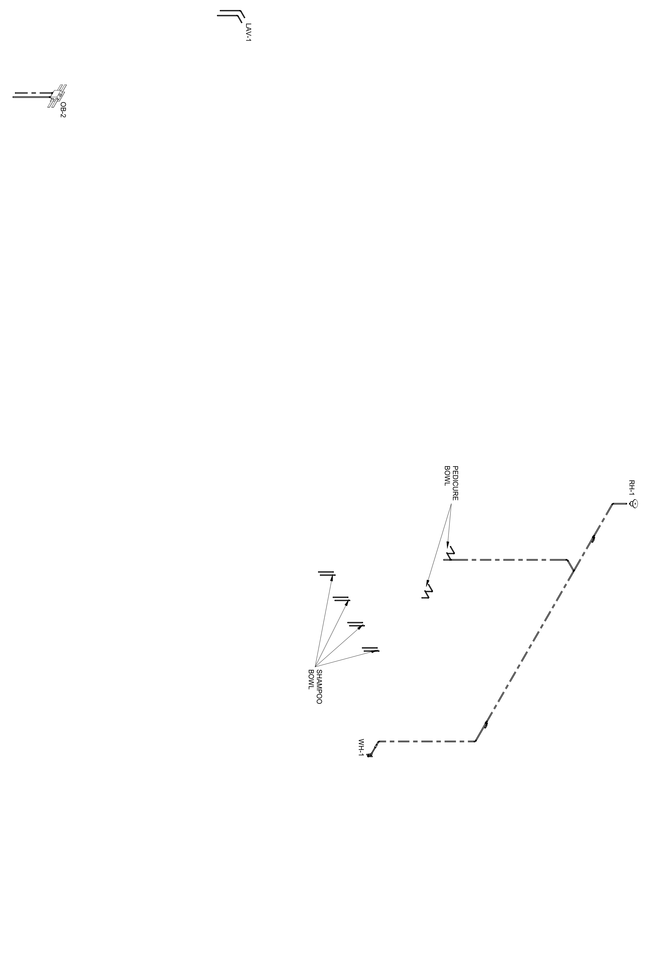


② MAIN LEVEL - PRESSURE RISER I



① MAIN LEVEL - PRESSURE RISER H

③ UPPER LEVEL - PRESSURE RISER J



PLUMBING ISOMETRICS

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION

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ABBREVIATIONS AND ACRONYMS

(APPLIES TO ALL FIRE PROTECTION SHEETS)

AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AS	ABOVE SLAB
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AV	ANGLE VALVE
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BOD	BASIS OF DESIGN
BOP	BOTTOM OF PIPE
BS	BELOW SLAB
BV	BALL VALVE
°C	CELSIUS
CAP	CAPACITY
CLG	CEILING
CONN	CONNECTION
COORD	COORDINATE
CU FT	CUBIC FEET
CU IN	CUBIC INCH
C_V	COEFFICIENT, VALVE FLOW
CV	CHECK VALVE
°	DEGREE
Δ	DIFFERENCE
DB	DECIBEL
DC	DIRECT CURRENT
DCV	DOUBLE CHECK VALVE
DD	DIRECT DRIVE
DDC	DOUBLE DETECTOR CHECK
DIA	DIAMETER
DN	DOWN
DP	DRY PENDANT
DS	DRY SIDE WALL
DWG	DRAWING
EC	ELECTRONICALLY COMMUTATED
EL	ELEVATION
ESFR	EARLY SUPPRESSION FAST RESPONSE
ET	EXPANSION TANK
°F	FAHRENHEIT
FAS	FIRE ALARM SYSTEM
FCP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FM	FACTORY MUTUAL
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FOOT OR FEET
FT-LB	FOOT-POUND
GAL	GALLON(S)
GPM	GALLONS PER MINUTE
H2O	WATER
HD	HEAD
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HYD	HYDRANT
HZ	FREQUENCY
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
IPS	INTERNATIONAL PIPE STANDARD OR IRON PIPE SIZE
KW	KILOWATT
LBS	POUNDS
LF	LINEAR FEET
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION

N/A	NOT APPLICABLE
N C	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N I C	NOT IN CONTRACT
N O	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
N T S	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW AND YOLK
%	PERCENT
PD	PRESSURE DROP
PH	PHASE (ELECTRICAL)
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAGE
QR	QUICK RESPONSE
QTY	QUANTITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S	SECOND
SPEC	SPECIFICATION
SPKR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET
SR	STANDARD RESPONSE
STD	STANDARD
STR	STARTER (MOTOR)
TAB	TESTING, ADJUSTING, AND BALANCING
TDDC	TESTABLE DOUBLE DETECTOR CHECK
TEMP	TEMPERATURE
TOP	TOP OF PIPE
TOR	TOP OF RISER
TS	TAMPER SWITCH
TYP	TYPICAL
U/G	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT AMPERE
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIV	VALVE IN VERTICAL
VLV	VALVE
W	WATT
W/	WITH
WC	WATER COLUMN
WG	WATER GAGE

PIPING

F	FIRE PROTECTION WATER SUPPLY PIPING
F U/G	FIRE PROTECTION WATER SUPPLY PIPING (UNDERGOUND)
	BACKFLOW PREVENTER (SMALL ASSEMBLY)
	BACKFLOW PREVENTER (LARGE ASSEMBLY)
	PIPE CAP
	PIPE ELBOW, DOWN
	PIPE ELBOW, UP
	PIPE TEE, DOWN
	PIPE TEE
	UNION
	AUTOMATIC AIR VENT
FS	FLOW SWITCH
PS	PRESSURE SWITCH
	PRESSURE GAGE AND COCK
	PUMP
	STRAINER
	STRAINER, BLOW OFF
	FLEXIBLE CONNECTOR
	TEST PLUG

ANNOTATIONS

#	KEYNOTE
FP-1	EQUIPMENT TAG (REFER TO SCHEDULES)
? / ?	ENLARGED PLAN OR DETAIL CALL-OUT
? / ?	SECTION CALL-OUT

FIRE PROTECTION COMPLIANCE

SCOPE OF WORK:

THE PROJECT SCOPE INVOLVES THE PROFESSIONAL DESIGN AND INSTALLATION OF A FIRE SUPPRESSION SPRINKLER SYSTEM. THIS INLCLUDES, BUT IS NOT LIMITED TO, FIRE PROTECTION SPRINKLER SYSTEM AND EQUIPMENT PROVIDED AND INSTALLED BY FIRE PROTECTION SPRINKLER CONTRACTOR.

THE FINAL DESIGN OF THE FIRE SUPPRESSION SPRINKLER SYSTEM SHALL BE PERFORMED BY A LICENSED FIRE PROTECTION ENGINEER IN THE STATE OF ALABAMA WHO SHALL ASSUME RESPONSIBLE CHARGE OF THE SYSTEM DESIGN. THESE PRELIMINARY DESIGN DOCUMENTS ARE PROVIDED FOR INITIAL COORDINATION ONLY.

SUBMITTALS FOR THE FIRE PROTECTION SYSTEMS WILL NOT BE REVIEWED OR APPROVED BY THE ENGINEER OF RECORD IF COORDINATION WITH OTHER DISCIPLINES HAS NOT OCCURRED PRIOR TO THE SUBMISSION OF SHOP DRAWINGS.

DESIGN APPROACH:

THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND HYDRAULICALLY CALCULATED BY A FIRE PROTECTION PROFESSIONAL ENGINEER WITH COMPETENCY IN SPRINKLER LAYOUT AND HYDRAULIC CALCULATIONS. THE FIRE PROTECTION PROFESSIONAL ENGINEER MAY UTILIZE A CURRENT NICET LEVEL III OR NICET LEVEL IV IN WATER-BASED SYSTEMS LAYOUT. THE FIRE PROTECTION PROFESSIONAL ENGINEER SHALL BE EITHER EMPLOYED BY OR CONTRACTED BY THE FIRE PROTECTION SPRINKLER CONTRACTOR. HYDRAULIC CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13 CHAPTER 28, PLANS AND CALCULATIONS, AND IN ACCORDANCE WITH THE SPRINKLER LISTING.

THE INSTALLATION SHALL BE MADE WITH ALL NEW MATERIALS, INCLUDING NEW STEEL SUPPLY PIPING TO NEW SPRINKLERS. ALL FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND/OR FM APPROVED WHERE APPLICABLE. THE SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION. THE SPRINKLER SYSTEM SHALL EXTEND INTO ALL AREAS IN ACCORDANCE WITH NFPA 13. THE SPRINKLER HYDRAULIC REMOTE AREAS AND HAZARD CLASSIFICATIONS ARE PER NFPA 13.

ALL FIRE SPRINKLER RISER(S) AND ALL CONTROL VALVES, POST INDICATOR VALVES, AND BACKFLOW PREVENTERS SHALL BE EQUIPPED WITH A SUPERVISED TAMPER SWITCH.

ALL FIRE PROTECTION PIPING AND EQUIPMENT SUPPORT BY THE BUILDING STRUCTURE SHALL BE REVIEWED AND APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD OR A COMPETENT, STATE LICENSED PROFESSIONAL ENGINEER PRIOR TO INSTALLATION.

COORDINATION BETWEEN DISCIPLINES:

THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FIRE SUPPRESSION SPRINKLER SYSTEM WITH OTHER DISCIPLINES PRIOR TO PURCHASING MATERIALS AND DURING INSTALLATION OF THE FIRE SUPPRESSION SPRINKLER SYSTEM.

THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THE INTEGRATION BETWEEN THE FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM.

ACCEPTANCE TEST CRITERIA:

THE ACCEPTANCE TESTING OF THE FIRE SPRINKLER SYSTEM AND ITS COMPONENTS SHALL COMPLY WITH ALL APPLICABLE ITEMS INDICATED IN NFPA 13 CHAPTER 6, INSTALLATION UNDERGROUND PIPING; CHAPTER 29, SYSTEM ACCEPTANCE; AND CHAPTER 32, SYSTEM INSPECTION, TESTING, AND MAINTENANCE.

OWNER RESPONSIBILITIES:

THE BUILDING OWNER IS RESPONSIBLE FOR MAINTAINING AND PERFORMING SCHEDULED FIRE PROTECTION SYSTEM TESTING AND MAINTENANCE PER NFPA 25. ALTERNATIVELY, THE BUILDING OWNER SHALL RETAIN THE SERVICES OF A FIRE PROTECTION SPRINKLER CONTRACTOR THAT IS EXPERIENCED WITH THE SYSTEM TYPES THAT HAVE BEEN INSTALLED TO PERFORM THE SCHEDULED FIRE PROTECTION SYSTEM TESTING AND MAINTENANCE PER NFPA 25.

APPLICABLE CODES AND NFPA STANDARDS (THIS LIST MAY NOT BE ALL-INCLUSIVE):

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL FIRE CODE
- 2019 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2019 NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
- 2020 NFPA 25 STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS

NFPA CLASSIFICATION OF HAZARD OCCUPANCY AND REQUIREMENTS:

A. LIGHT HAZARD OCCUPANCIES
   a. OCCUPANCIES OR PORTIONS OF OTHER OCCUPANCIES WHERE THE QUANTITY AND/OR COMBUSTIBILITY OF CONTENTS IS LOW AND FIRES WITH RELATIVELY LOW RATES OF HEAT RELEASE ARE EXPECTED.
   b. FOR NEW SYSTEMS, THE WATER DEMAND FOR SPRINKLERS SHALL BE DETERMINED FROM THE FOLLOWING:
      - 0.1 GPM / FT^2 FOR AREAS OF SPRINKLER OPERATION LESS THAN 1,500 FT^2
   c. ACCEPTABLE SPRINKLER K FACTOR: 5.6
   d. SPRINKLER TEMPERATURE RATING: ORDINARY, UNLESS NOTED OTHERWISE
   e. SPRINKLER HEAD SPACING: 225 FT^2 MAX. PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE
   f. HOSE ALLOWANCE (TOTAL COMBINED INSIDE AND OUTSIDE HOSE): 100 GPM FOR MIN. 30 MINUTES
B. ORDINARY HAZARD (GROUP 1) (OH1)
   a. OCCUPANCIES OR PORTIONS OF OTHER OCCUPANCIES WHERE COMBUSTIBILITY IS LOW, QUANTITY OF COMBUSTIBLES IS MODERATE, STOCKPILES OF CONTENTS DO NOT EXCEED 8 FT (2.4 M), AND FIRES WITH MODERATE RATES OF HEAT RELEASE ARE EXPECTED.
   b. FOR NEW SYSTEMS, THE WATER DEMAND FOR SPRINKLERS SHALL BE DETERMINED FROM THE FOLLOWING:
      - 0.15 GPM / FT^2 FOR AREAS OF SPRINKLER OPERATION LESS THAN 1,500 FT^2
   c. ACCEPTABLE SPRINKLER K FACTOR: 5.6 OR 8.0
   d. SPRINKLER TEMPERATURE RATING: INTERMEDIATE, UNLESS NOTED OTHERWISE
   e. SPRINKLER HEAD SPACING: 130 FT^2 MAX. PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE
   f. HOSE ALLOWANCE (TOTAL COMBINED INSIDE AND OUTSIDE HOSE): 250 GPM FOR MIN. 60 MINUTES (MONITORED FIRE ALARM SYSTEM) OR 90 MINUTES (WITHOUT A MONITORED FIRE ALARM SYSTEM)
C. ORDINARY HAZARD (GROUP 2) (OH2)
   a. OCCUPANCIES OR PORTIONS OF OTHER OCCUPANCIES WHERE THE QUANTITY AND COMBUSTIBILITY OF CONTENTS ARE MODERATE TO HIGH, STOCKPILES OF CONTENTS WITH MODERATE RATES OF HEAT RELEASE DO NOT EXCEED 12 FT (3.7 M), AND STOCKPILES OF CONTENTS WITH HIGH RATES OF HEAT RELEASE DO NOT EXCEED 8 FT (2.4 M).
   b. FOR NEW SYSTEMS, THE WATER DEMAND FOR SPRINKLERS SHALL BE DETERMINED FROM THE FOLLOWING:
      - 0.2 GPM / FT^2 FOR AREAS OF SPRINKLER OPERATION LESS THAN 1,500 FT^2
   c. ACCEPTABLE SPRINKLER K FACTOR: 8.0 OR LARGER
   d. SPRINKLER TEMPERATURE RATING: INTERMEDIATE, UNLESS NOTED OTHERWISE
   e. SPRINKLER HEAD SPACING: 130 FT^2 MAX. PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE
   f. HOSE ALLOWANCE (TOTAL COMBINED INSIDE AND OUTSIDE HOSE): 250 GPM FOR MIN. 60 MINUTES (MONITORED FIRE ALARM SYSTEM) OR 90 MINUTES (WITHOUT A MONITORED FIRE ALARM SYSTEM)

FIRE PROTECTION GENERAL NOTES

THE CITY OF FORT PAYNE FIRE MARSHAL'S OFFICE IS THE AHJ. THE FINAL INSPECTION AND APPROVAL SHALL BE BY THE CITY OF FORT PAYNE FIRE MARSHAL'S OFFICE AND THE ARCHITECT/ENGINEER.

THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL VISIT THE SITE TO CHECK AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING TO INSURE THE COORDINATION OF THE FIRE SERVICES WITH EXISTING SITE CONDITIONS.

CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.

FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.

THE FIRE SPRINKLER SYSTEM SUBMITTAL SHALL CONTAIN FINAL PIPE SIZES BASED ON THE RESULTS OF THE FIRE SPRINKLER CONTRACTOR'S FIRE PROTECTION ENGINEER'S HYDRAULIC CALCULATIONS.

FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC.

PROVIDE ACCESS PANELS TO ALL VALVES ABOVE/BEHIND NON-ACCESSIBLE CEILINGS AND CHASE WALLS.

SPRINKLERS ARE TO BE COORDINATED WITH ALL LOCATIONS OF DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, CEILING SYSTEMS, AND STRUCTURAL SYSTEM.

SPRINKLER TYPES SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER TO ARCHITECT'S DRAWINGS FOR CEILING TYPES AND CEILING HEIGHTS.

INDICATE CENTER-TO-CENTER DIMENSIONS AND/OR PIPE CUT LENGTHS AND NOMINAL PIPE DIAMETERS ON ALL PIPING. INDICATE PIPE TYPE, SCHEDULE OF WALL THICKNESSES, AND METHOD OF JOINING ON SHOP DRAWINGS.

PROVIDE STOCK OF EXTRA SPRINKLERS IN A WALL-MOUNTED CABINET IN ACCORDANCE WITH NFPA 13.

PROVIDE DETAIL AND INDICATE TYPE OF HANGERS TO BE INSTALLED FOR SPRINKLER PIPING. METHODS OF HANGING PIPES, HEADERS, AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13. ALL HANGERS ON 4"ø PIPE AND LARGER SHALL BE CLEVIS-TYPE HANGERS. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADE. POWDER DRIVEN STUDS SHALL NOT BE USED.

ALL GROOVED AND THREADED FITTINGS SHALL BE UL LISTED/FM APPROVED. ALL THREADED PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH ASTM A120 AND SHALL BE JOINED BY SCREWED JOINTS IN ACCORDANCE WITH ANSI B2.1. ALL GROOVED PIPING 2-1/2"ø OR LARGER SHALL BE SCHEDULE 10 BLACK STEEL.

WELD-O-LETS SHALL BE TWO SIZES SMALLER THAN CROSS MAIN. NO LENGTH OF CROSS MAIN SHALL BE GREATER THAN 10'-00". ALL SPRINKLER PIPING AND FITTINGS SHALL BE INSTALLED ABSOLUTELY RUST FREE.

THE AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF THE FUSIBLE ELEMENTS SHALL BE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLERS THAT ARE INSTALLED IN AREAS WHERE THEY MAY BE EXPOSED TO CHEMICAL FUMES OR VAPORS SHALL HAVE A CORROSION RESISTANT COATING.

ALL VALVES FOR FIRE SERVICE SHALL BE UL OR FM APPROVED. VALVES SHALL BE FACTORY MARKED "UL" OR "FM" AND RATED FOR A MIN. OF 175 PSIG WORKING PRESSURE UNLESS NOTED OTHERWISE.

ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED. THE TYPE, LOCATION, AND INSTALLATION OF FLOW AND SUPERVISORY SWITCHES SHALL BE BY THE FIRE PROTECTION SPRINKLER CONTRACTOR. THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL CIRCUITS, WIRING, SWITCHES, CONDUIT, OR JUNCTION BOXES AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

SPRINKLERS SHALL COVER THE ENTIRE AREA OF ALL STRUCTURAL MEMBERS. THE SPRAY PATTERN ON ANY SPRINKLER SHALL NOT BE OBSTRUCTED BY WALLS, PARTITIONS, OR STRUCTURAL COMPONENTS.

THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE DRAWINGS, OTHER ENGINEERING DRAWINGS, THE ARCHITECTURAL DRAWINGS, AND/OR FIELD CONDITIONS PRIOR TO FINAL BID PRICE OR FINAL PERMITTING.

IN CASE OF DISPUTE OR DOUBT AS TO INTENT OF DRAWINGS OR SPECIFICATIONS, OBTAIN ARCHITECT'S/ENGINEER'S WRITTEN DECISION BEFORE PROCEEDING WITH BID OR WORK INVOLVED.

BEFORE SUBMITTING PROPOSAL OR BID, EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT; THE AMOUNT OF SPACE AVAILABLE FOR PIPING, EQUIPMENT, AND CONNECTING SERVICES; THE SITE WORK SCOPE; THE REQUIREMENTS TO COORDINATE THE FIRE PROTECTION WORK WITH THAT OF OTHER DISCIPLINES; AND THE TIME SCHEDULE NECESSARY TO PERFORM THAT WORK.

ALL SPRINKLER PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY. AFTER ASSEMBLY, THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN.

ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMODATE CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS.

PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED OBSTRUCTION 4'-00" OR WIDER PER NFPA 13.

FOR NONCOMBUSTIBLE STAIRS WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE FINISHES, SPRINKLERS SHALL BE INSTALLED AT THE TOP OF STAIRWAY SHAFT AND UNDER THE FIRST ACCESSIBLE LANDING ABOVE THE BOTTOM OF STAIRWAY SHAFT PER NFPA 13.

THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL INDICATE THE TOTAL AREA (FT2) PROTECTED BY EACH SPRINKLER SYSTEM.

ALL PENDANT SPRINKLERS SHALL BE CENTER OF TILE, UNLESS MAX. DISTANCES FROM WALLS OR BETWEEN SPRINKLERS IS EXCEEDED. IF NOT POSSIBLE, ALL SPRINKLERS MOUNTED IN CEILING SHALL BE LOCATED A MIN. 4" AWAY FROM ANY WALLS; CEILING GRID MEMBERS; CEILING HEIGHT CHANGES; OR ANY OTHER VERTICAL INTERSECTING STRUCTURAL SURFACE.

FIRE SPRINKLER PIPING SHALL NOT TRAVEL OVER THE TOPS OF ELECTRICAL PANELBOARDS.

ALL MATERIALS, WHERE APPLICABLE, SHALL BE UL LISTED OR FM APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS. ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS IN ACCORDANCE WITH NFPA 13. MIN. HYDROSTATIC PRESSURE SHALL BE 200 PSIG.

UNDERGROUND PIPING BELOW BUILDING FLOOR SLAB SHALL BE DUCTILE IRON. ABOVE GRADE SPRINKLER PIPING SHALL BE SCHEDULE 10, LIGHT WALL, ROLL GROOVED, BLACK STEEL PIPE.

GMC

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24

DRAWN BY: JHS
CHECKED BY: ARH

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED No. 38810 PROFESSIONAL 11/14/2024 ENGINEER ANDREAS R. HAUN

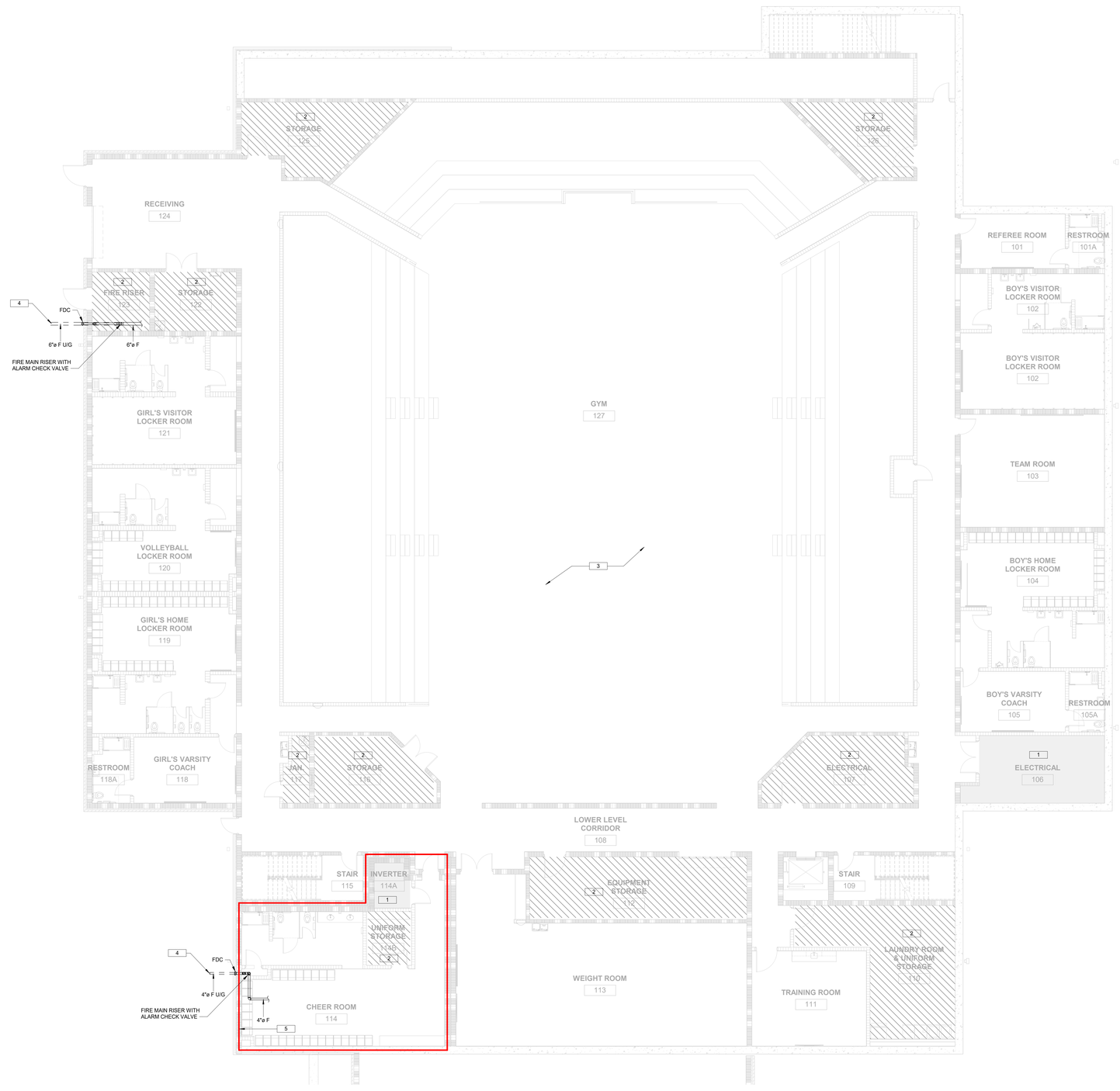
FP GENERAL NOTES

FP0.01

ROCKET MEP LLC
MECHANICAL - ELECTRICAL - PLUMBING ENGINEERS
470-606-1660
PO BOX 127 GURLEY AL 35748
ANDREAS@ROCKETMEP.COM
AL CERT OF AUTH: ECA00597

FIRE PROTECTION KEYED NOTES:

1. GRAY REGIONS INDICATE AREAS THAT ARE NOT TO BE SPRINKLERED. THESE AREAS ARE TRANSFORMER ROOMS SEPARATED FROM THE REMAINDER OF THE BUILDING BY WALLS AND FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS.
2. DIAGONAL HATCHED AREAS SHALL BE PROTECTED BY A WET SYSTEM AND INDICATE AREAS THAT HAVE AN OCCUPANCY CLASSIFICATION OF ORDINARY HAZARD GROUP 1. REFER TO SHEET FP0.01 FOR SPECIFIC REQUIREMENTS.
3. ALL OTHER AREAS SHALL BE PROTECTED BY A WET SYSTEM AND HAVE AN OCCUPANCY CLASSIFICATION OF LIGHT HAZARD. REFER TO SHEET FP0.01 FOR SPECIFIC REQUIREMENTS.
4. UNDERGROUND FIRE SERVICE. REFER TO CIVIL FOR CONTINUATION.
5. RED LINEWORK REPRESENTS BOUNDARY OF STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE OF FIRE PROTECTION SYSTEMS LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR PENETRATIONS OR 2-1/2 INCHES IN DIAMETER FOR CIRCULAR PENETRATIONS SHALL BE CONSIDERED OPENINGS AND SHALL BE PROTECTED IN ACCORDANCE WITH *SECTION 306.4 OF THE 2020 ICC 500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS.* PENETRATIONS OF THE STORM SHELTER ENVELOPE SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE STORM SHELTER AND IMPACT RESISTANCE OF THE STORM SHELTER ENVELOPE.



1 FIRE PROTECTION PLAN - LOWER LEVEL
1/8" = 1'-0"

0 4' 8' 16' 24'
1/8" = 1'-0"

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DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED No. 38810 PROFESSIONAL ENGINEER 11/14/2024 ANDREAS R. HAHN

FIRE PROTECTION PLAN
LOWER LEVEL

FP1.01

11/14/2024 11:11:17 AM TEMPLATE VERSION: 2022.1

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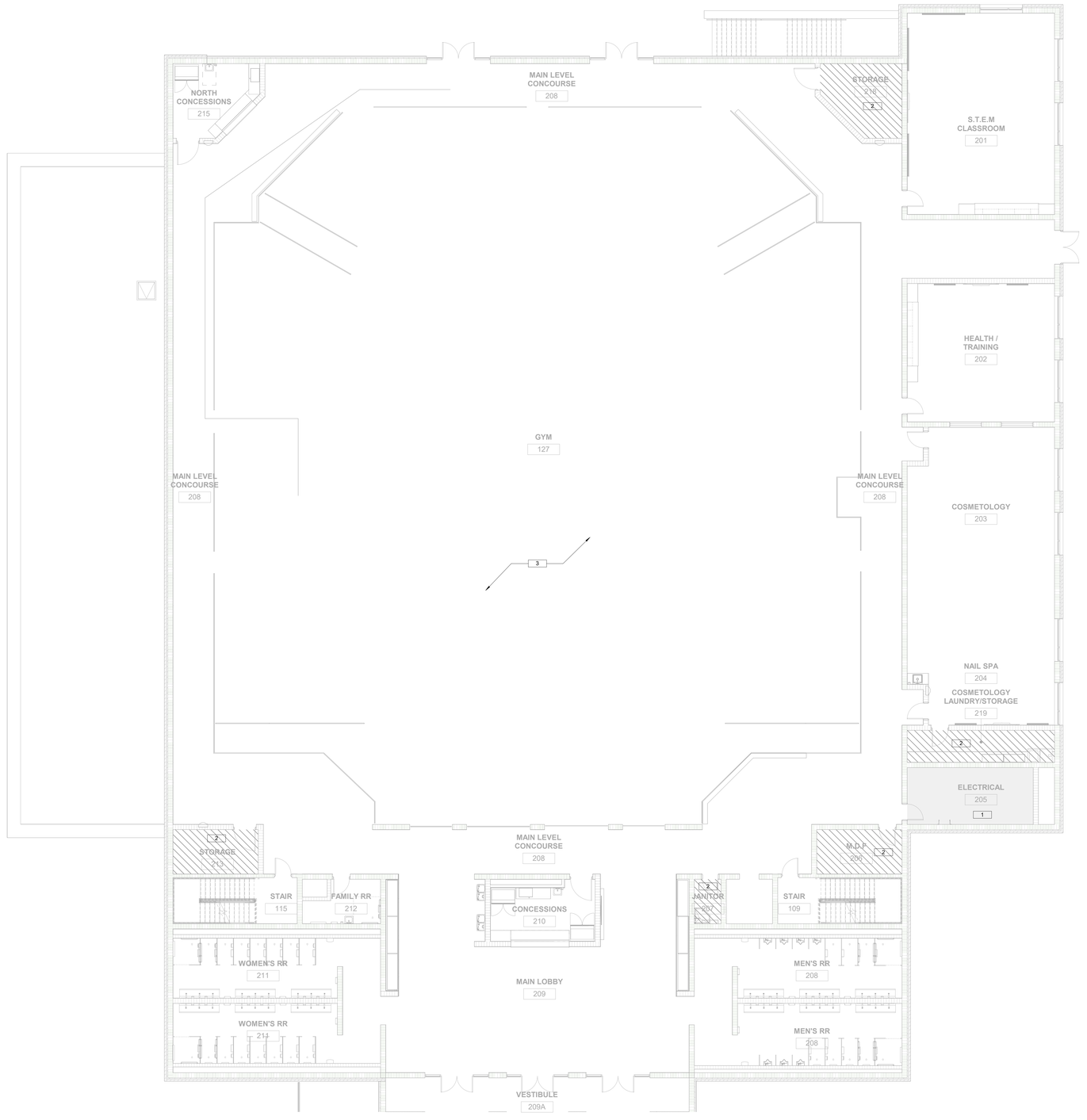
FIRE PROTECTION KEYED NOTES:

1. GRAY FILLED REGIONS INDICATE AREAS THAT ARE NOT TO BE SPRINKLERED. THESE AREAS ARE TRANSFORMER ROOMS SEPARATED FROM THE REMAINDER OF THE BUILDING BY WALLS AND FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS.
2. DIAGONAL HATCHED AREAS SHALL BE PROTECTED BY A WET SYSTEM AND INDICATE AREAS THAT HAVE AN OCCUPANCY CLASSIFICATION OF ORDINARY HAZARD GROUP 1. REFER TO SHEET FP0.01 FOR SPECIFIC REQUIREMENTS.
3. ALL OTHER AREAS SHALL BE PROTECTED BY A WET SYSTEM AND HAVE AN OCCUPANCY CLASSIFICATION OF LIGHT HAZARD. REFER TO SHEET FP0.01 FOR SPECIFIC REQUIREMENTS.



1 FIRE PROTECTION PLAN - MAIN LEVEL
1/8" = 1'-0"

0 4' 8' 16' 24'
1/8" = 1'-0"

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DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED No. 38815 PROFESSIONAL ENGINEER 11/14/2024 ANDREAS R. HAUN

FIRE PROTECTION PLAN
MAIN LEVEL

FP1.02

11/14/2024 11:11:19 AM TEMPLATE VERSION: 2022.1

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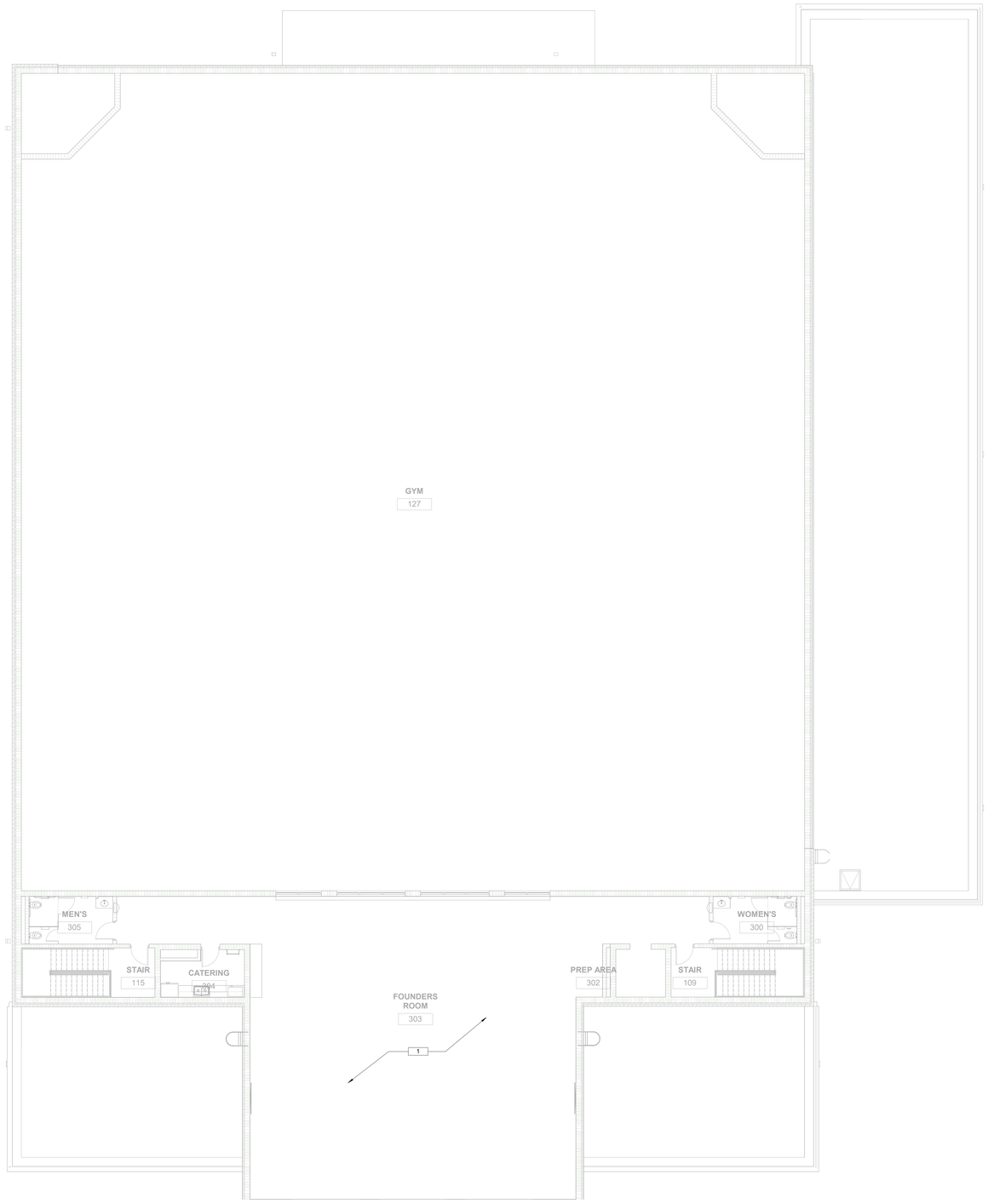
AL CERT OF AUTH: ECA00597

FIRE PROTECTION KEYED NOTES:

1. ALL AREAS ON THIS LEVEL SHALL BE PROTECTED BY A WET SYSTEM AND HAVE AN OCCUPANCY CLASSIFICATION OF LIGHT HAZARD. REFER TO SHEET FP0.01 FOR SPECIFIC REQUIREMENTS.



1 FIRE PROTECTION PLAN - UPPER LEVEL
1/8" = 1'-0"

0 4' 8' 16' 24'
1/8" = 1'-0"

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DCM # 20240548
GMC AHUN230009

ALABAMA LICENSED No. 38816 PROFESSIONAL ENGINEER 11/14/2024 ANDREAS R. HAHN

FIRE PROTECTION PLAN
UPPER LEVEL

FP1.03

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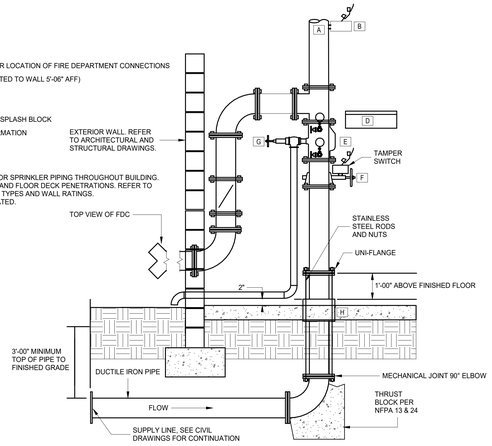
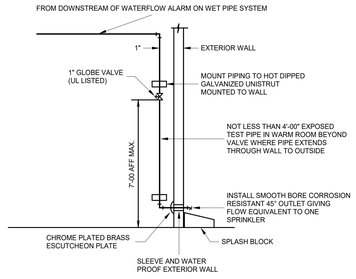
A SUPPLY TO SPRINKLER
B VANE TYPE FLOW SWITCH
C SEE CIVIL DRAWINGS & SITE PLAN FOR LOCATION OF FIRE DEPARTMENT CONNECTIONS
D SPARE SPRINKLER HEAD BOX (MOUNTED TO WALL 5'-06" AFF)
E SHOTGUN 90 RISER CHECK VALVE
F WATER TYPE BUTTERFLY VALVE
G 2" MAIN DRAIN TO 18"x24" CONCRETE SPLASH BLOCK
H REFER TO SPECS FOR SLEEVE INFORMATION

NOTES:

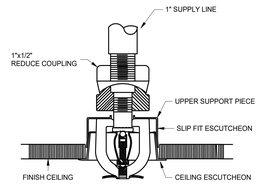
1. LABEL PIPING ACCORDING TO SPECS FOR SPRINKLER PIPING THROUGHOUT BUILDING.
2. MAINTAIN FIRE RATINGS AT ALL WALLS AND FLOOR DECK PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES AND WALL RATINGS.
3. PROVIDE TAMPER SWITCHES AS INDICATED.



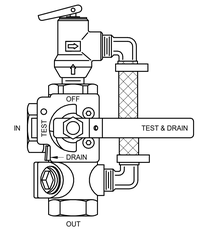
1 WET PIPE FIRE RISER TYPICAL ENTRY DETAIL
NTS



2 TYPICAL INSPECTOR'S TEST DETAIL
NTS



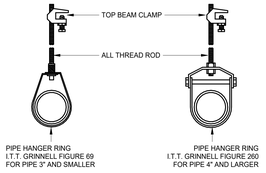
3 TYPICAL SEMI-RECESSED SPRINKLER HEAD DETAIL
NTS



NOTES:

1. CONTRACTOR SHALL ORDER ORIFICE SIZE BASED ON HEADS USED IN DESIGN

4 TEST AND DRAIN VALVE DETAIL
NTS



NOTES:

1. BEFORE ATTACHING, COORDINATE W/ SPRAY ON FIREPROOFING CONTRACTOR FOR PROPER CONNECTION METHOD

5 TOP BEAM CLAMP PIPE HANGER DETAIL
NTS

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FIRE PROTECTION DETAILS

FP5.01

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