ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD of EDUCATION
MOULTON, ALABAMA

LOCATION MAP
HATTON HIGH SCHOOL
6909 ALABAMA HWY 101, TOWN CREEK, AL 35672

VICINITY MAP
HATTON HIGH SCHOOL
6909 ALABAMA HWY 101, TOWN CREEK, AL 35672

CONTACTS

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INDEX TO DRAWINGS

GENERAL	
G0.1	TITLE SHEET AND INDEX TO DRAWINGS
G1.0	SHELTER PLAN
G1.1	CODE PLAN - CLASSROOM BLDG
G1.2	CODE PLAN - GYMNASIUM
CIVIL	
C-0.1	GENERAL SITE PLAN NOTES
C-1.0	EXISTING CONDITIONS
C-1.1	DEMOLITION PLAN
C-2.0	SITE PLAN
C-3.0	GEOMETRIC LAYOUT
C-4.0	GRADING & DRAINAGE PLAN
C-5.0	UTILITY PLAN
C-6.0	EROSION & SEDIMENT CONTROL PLAN
C-7.0	STANDARD DETAILS
C-7.1	STANDARD DETAILS
C-7.2	STANDARD DETAILS
C-7.3	STANDARD DETAILS
STRUCTURAL	
S0.1	GENERAL NOTES, SCHEDULES AND TYPICAL SECTIONS
S0.2	TYPICAL DETAILS AND SCHEDULES
S0.3	SPECIAL INSPECTION SCHEDULE
S1.1	CLASSROOM FOUNDATION PLAN
S1.2	CLASSROOM ROOF FRAMING PLAN
S2.1	TRUSS DIAGRAMS
S3.1	CLASSROOM SECTIONS
S3.2	CLASSROOM SECTIONS
S4.1	GYMNASIUM FOUNDATION PLAN
S4.2	GYMNASIUM ROOF FRAMING PLAN
S5.1	GYMNASIUM SECTIONS
S6.1	GYMNASIUM SECTIONS
S6.2	GYMNASIUM SECTIONS
S6.3	GYMNASIUM SECTIONS
ARCHITECTURAL	
A0.1	ARCHITECTURAL SITE PLAN
A1.1	FLOOR PLAN - CLASSROOM
A1.2	FLOOR PLAN - GYMNASIUM
A1.3	COURT LAYOUT
A1.10	ENLARGED PLANS - CLASSROOM
A1.11	ENLARGED PLANS - GYMNASIUM
A2.1	REFLECTED CEILING PLAN - CLASSROOM
A2.2	REFLECTED CEILING PLAN - GYMNASIUM
A3.1	ROOF PLAN - CLASSROOM
A3.2	ROOF PLAN - GYMNASIUM
A3.3	ROOF - DETAILS
A4.1	EXTERIOR ELEVATIONS - CLASSROOM
A4.2	EXTERIOR ELEVATIONS - GYMNASIUM
A5.1	BUILDING SECTIONS - CLASSROOM
A5.2	BUILDING SECTIONS - GYMNASIUM
A6.1	WALL SECTIONS - CLASSROOM
A6.2	WALL SECTIONS - CLASSROOM
A6.3	WALL SECTIONS - GYMNASIUM
A6.4	WALL SECTIONS - GYMNASIUM
A6.5	WALL SECTIONS - GYMNASIUM
A7.1	PARTITION TYPES
A8.1	ROOM FINISH SCHEDULE
A8.2	DOOR SCHEDULE
A8.3	DOOR TYPES
A8.4	DOOR DETAILS
A9.1	MISCELLANEOUS DETAILS
A9.2	MISCELLANEOUS DETAILS
A10.1	CASEWORK - CLASSROOM
A10.2	CASEWORK - GYMNASIUM
FIRE PROTECTION	
FS1.1	FIRE SPRINKLER FLOOR PLAN - GYMNASIUM
FS2.1	FIRE SPRINKLER NOTES & DETAILS
PLUMBING	
P1.0	PLUMBING. SCHEDULES, NOTES AND DETAILS
P1.1	PLUMBING RISERS
P1.2	PLUMBING RISERS
P2.0	PLUMBING FLOOR PLAN-CLASSROOM BLDG WASTE PIPE
P2.1	PLUMBING FLOOR PLAN-GYMNASIUM WASTE PIPING
P3.0	PLUMBING FLOOR PLAN-CLASSROOM BLDG WATER PIPE
P3.1	PLUMBING FLOOR PLAN-GYMNASIUM WATER PIPING
MECHANICAL	
M1.0	HVAC FLOOR PLAN - CLASSROOM BLDG.
M1.1	HVAC FLOOR PLAN - GYM
M2.0	LARGE SCALE MECH. ROOMS & SECTIONS
M2.1	LARGE SCALE MECH. ROOMS & SECTIONS
M3.0	HVAC SCHEDULES
M3.1	HVAC SCHEDULES & DETAILS
M3.2	HVAC DETAILS & O.A. CALCULATIONS
ELECTRICAL	
E0.1	ELECTRICAL LEGEND
E0.2	ELECTRICAL LEGEND AND NOTES
E1.1	SITE PLAN - NEW WORK
E2.1	FLOOR PLAN CLASSROOM - LIGHTING
E2.2	FLOOR PLAN GYMNASIUM - LIGHTING
E2.3	LIGHTING CONTROLS
E2.4	LIGHTING CONTROLS
E3.1	FLOOR PLAN CLASSROOM - POWER
E3.2	FLOOR PLAN GYMNASIUM - POWER
E3.3	FLOOR PLAN CLASSROOM - EQUIPMENT POWER
E3.4	FLOOR PLAN GYMNASIUM - EQUIPMENT POWER
E3.5	EQUIPMENT POWER SCHEDULES AND NOTES
E4.1	FLOOR PLAN CLASSROOM - AUXILIARY
E4.2	FLOOR PLAN GYMNASIUM - AUXILIARY
E5.1	LUMINAIRE SCHEDULE AND DETAILS
E5.2	PANELBOARD SCHEDULE AND DETAILS
E5.3	PANELBOARD SCHEDULE
E5.4	PANELBOARD SCHEDULE
E6.1	FIRE ALARM RISER AND NOTES
E7.1	RISER DIAGRAM AND NOTES
E7.2	GROUNDING DETAILS AND NOTES
E8.1	AUXILIARY DETAILS
E8.2	AUXILIARY DETAILS

ADDITIONS
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MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1092
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : TITLE SHEET & INDEX

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : G0.1

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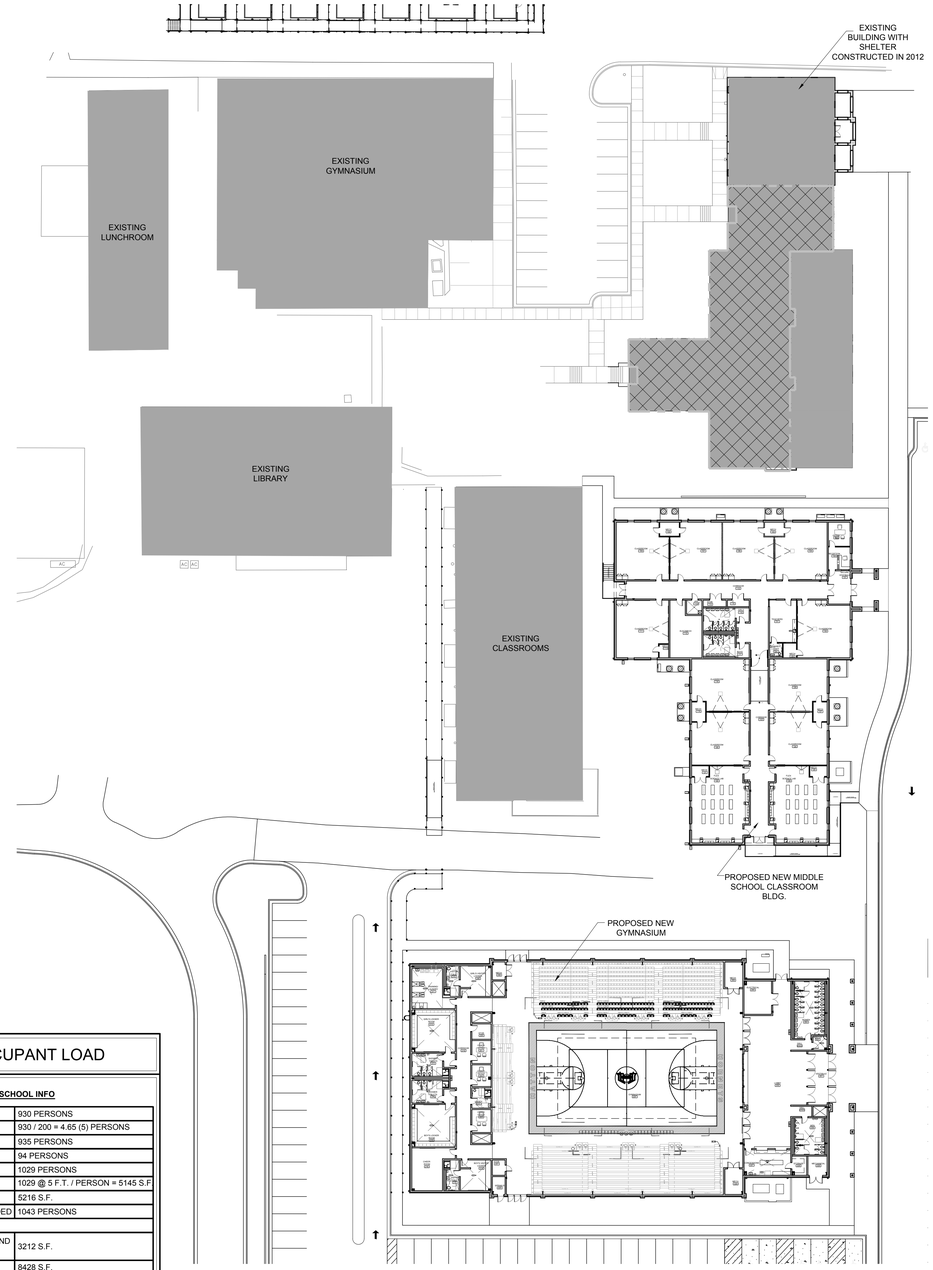
- Friday, March 08, 2024 3:04:30 PM

OVERALL EXISTING SITE PLAN MIDDLE AND HIGH SCHOOL

SCALE: NOT TO SCALE



OVERALL PROPOSED SITE PLAN MIDDLE AND HIGH SCHOOL

SCALE: 1" = 32'

SHELTER OCCUPANT LOAD

EXISTING TORNADO SHELTER @ HIGH SCHOOL INFO

CAMPUS POPULATION	930 PERSONS
CALCULATED WHEELCHAIR O.L.	930 / 200 = 4.65 (5) PERSONS
TOTAL CALCULATED OCCUPANTS	935 PERSONS
MINIMUM 10% INCREASE	94 PERSONS
TOTAL REQUIRED OCCUPANT LOAD	1029 PERSONS
*NET SHELTER AREA REQ'D	1029 @ 5 F.T. / PERSON = 5145 S.F.
*NET SHELTER AREA PROVIDED	5216 S.F.
NET SHELTER OCCUPANT LOAD PROVIDED	1043 PERSONS
*DOES NOT INCLUDE SUPPORT AREAS	
SUPPORT AREAS: TOILETS, SUPPLIES AND NURSE STATION, MECH. AND ELEC.	3212 S.F.
TOTAL SHELTER AREA	8428 S.F.

PROPOSED MIDDLE SCHOOL CLASSROOM (10) BUILDING ADDITION

TOTAL OCCUPIED CLASSROOM MIDDLE	8082 S.F.
TOTAL OCCUPIED CLASSROOM MIDDLE	8,082 / 30 = 269 PERSONS
CALCULATED WHEELCHAIR O.L.	269 / 200 = 1.35 (2) PERSONS
TOTAL CALCULATED OCCUPANTS	271 PERSONS
MINIMUM 10% INCREASE	27 PERSONS
SHELTER REQUIRED (NEW)	298 X 5 SQ. FT. = 1,490 S.F.

EXISTING CLASSROOMS (10)

TOTAL OCCUPIED CLASSROOM	8000 S.F.
TOTAL OCCUPIED CLASSROOM	8,000 / 30 = 267 PERSONS
CALCULATED WHEELCHAIR O.L.	267 / 200 = 1.33 (2) PERSONS
TOTAL CALCULATED OCCUPANTS	269 PERSONS
MINIMUM 10% INCREASE	27 PERSONS
SHELTER REQUIRED (NEW)	296 X 5 SQ. FT. = 1,480 S.F.

SHELTER CALCULATIONS

SHELTER SPACE	CAMPUS O.L.	EXIST. SHELTER S.F.	SHELTER REQ'D S.F.	TOTAL REMAIN S.F.
EXISTING SHELTER	1029	8,428 S.F.	5,145 S.F.	
NEW MIDDLE BLDG.	298		1,490 S.F.	
EXISTING CLASSROOM (10)	296		1,480 S.F.	
TOTAL		8,428 S.F.	8,115 S.F.	
TOTAL REMAINING				313 S.F.

***BASED ON THESE SQUARE FOOTAGE CALCULATIONS THE EXISTING H.S. SHELTER HAS THE CAPACITY TO ACCOMMODATE THE NEW MIDDLE SCHOOL BLDG.**

TORNADO SHELTER LEGEND

SYMBOL	DESCRIPTION
	EXTENTS OF USABLE SHELTER AREA

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : SHELTER PLAN

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

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REVISED DATE:

REVISED DATE:

SHEET NO. : G1.0

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/---G1.0 Shelter Plan.dwg
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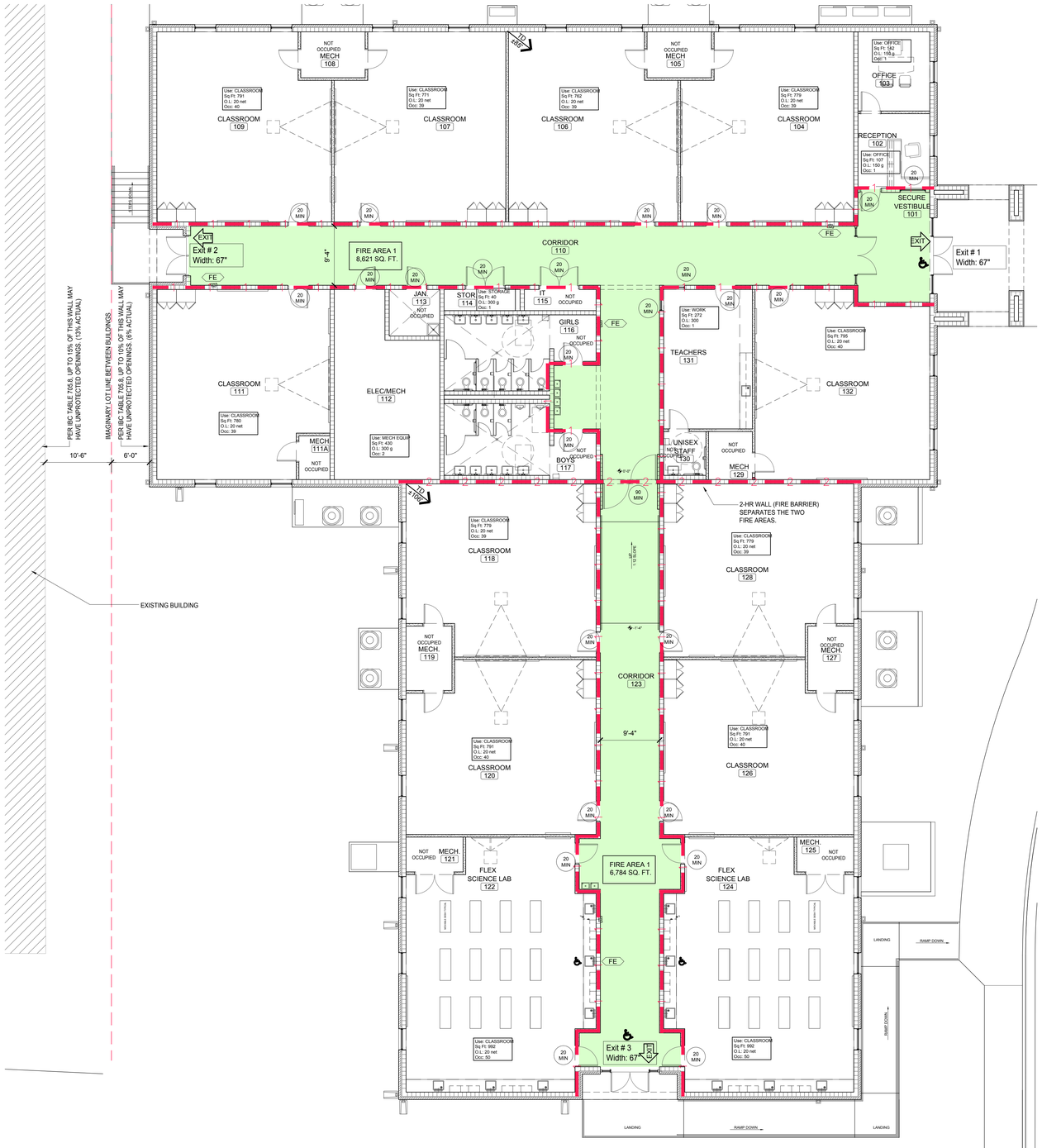
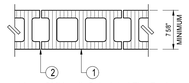


GENERAL NOTES

1. SEE SHEET A7.1 FOR PARTITION TYPES
2. SEE SHEET A3.1 FOR ATTIC DRAFTSTOPPING
3. SEE SHEET A9.1 FOR RAMP AND STAIR DETAILS

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



1 hour CMU wall: Calculated Fire Resistance to meet or exceed IBC Sec. 721.3

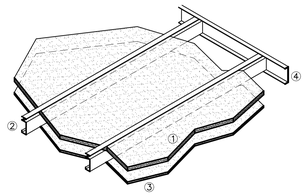
Bearing Wall - 1 hour

Non-Bearing Wall - 1 hour

1. Concrete Blocks - Various Designs. Classification D-2 (1 hr.) Classification to meet or exceed 1-hour design
2. Mortar - Blocks laid in full bed of mortar, nominal 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume)

ONE-HOUR FIRE RATED PARTITION PLAN DETAIL
1

SCALE: 1" = 1'-0"



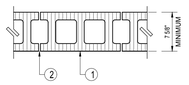
1. 1" LINER PANELS OR 2-LAYERS 1/2" FIRECODE "C" WALLBOARD INSERTED IN C-H STUDS 24" O.C..
2. 600CH20 (6", 20 GA.) STUDS 24" O.C. (SEE LIMITING SPAN NOTE)
3. SINGLE-LAYER 5/8" FIRECODE "C" WALLBOARD SCREW-ATTACHED TO STUDS.
4. SET C-H STUDS IN 20 GA. RUNNERS ANCHORED TO WALL AT 24" O.C. MAX.

LIMITING SPAN NOTE: INSTALL DOUBLE 6" E-STUDS FOR SPANS EXCEEDING 17'-5"

NOTE: ONE-HOUR FIRE-RATED HORIZONTAL SHAFT WALL ASSEMBLY EQUAL TO TEST NO. WHI-495PSH

ONE-HOUR FIRE RATED ROOF / CEILING ASSEMBLY ISOMETRIC DETAIL
2

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



UL Design No. U905 - 2 hour wall

Bearing Wall - 2 hour

Non-Bearing Wall - 2 hour

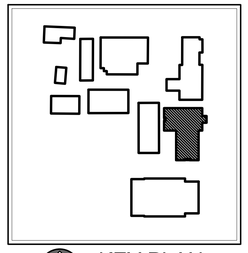
1. Concrete Blocks - Various Designs. Classification C-2 (2 hr.)
2. Mortar - Blocks laid in full bed of mortar, nominal 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume) Vertical joints staggered (running bond).

TWO-HOUR FIRE RATED WALL PLAN DETAIL
3

SCALE: 1" = 1'-0"

CODE LEGEND

SYMBOL	DESCRIPTION
1	ONE HOUR FIRE RATED PARTITION UL# - XXX - SEE SECTION 1/G1.1
2	TWO HOUR FIRE RATED PARTITION UL# - 905 - SEE SECTION 3/G1.1
	ONE HOUR FIRE RATED CEILING ASSEMBLY UL# - XXX - SEE SECTION 2/G1.1
EXIT	PRIMARY BUILDING EXIT
TD 250	TRAVEL DISTANCE NEAREST TO EXIT
♿	HANDICAP ACCESSIBLE
FE	FIRE EXTINGUISHER LOCATION (SEE DETAIL A9.1)
FSD	FIRE SEPERATION DISTANCE
EWR-10" EWP-34"	EXIT WIDTH REQUIRED EXIT WIDTH PROVIDED
168 340	ACTUAL OCCUPANT LOAD SERVED TOTAL EGRESS CAPACITY
3/4 HOUR	RATED DOOR ASSEMBLY



KEY PLAN
SCALE: NTS

CODE REVIEW

CODE: **2021 INTERNATIONAL BUILDING CODE**

OCCUPANCY TYPE: **GROUP 'E'**

SPRINKLERED: **NO** (DIVIDED INTO FIRE AREAS)

NUMBER OF STORIES: **ONE**

CONSTRUCTION TYPE: **TYPE III-B**

TYPE **III-B**, REQUIRES THE FOLLOWING FIRE RESISTANCE (TABLE 601):

STRUCTURAL FRAME:	**0 HOUR**
EXTERIOR BEARING WALLS:	**2 HOUR**
INTERIOR BEARING WALLS:	**0 HOUR**
EXTERIOR NONBEARING WALLS:	**0 HOUR**
INTERIOR NONBEARING WALLS:	**0 HOUR**
FLOOR CONSTRUCTION:	**0 HOUR**
ROOF CONSTRUCTION:	**0 HOUR**

OTHER REQUIREMENTS:

FIRE WALL RATING (TABLE 706.4): **NA**
OCCUPANCY SEPARATION (TABLE 508.4): **NA**
INCIDENTAL USE AREAS (TABLE 509.1): **NONE**

CORRIDORS (TABLE 1020.2): CORRIDORS SERVING MORE THAN 30 OCCUPANTS IN UNSPRINKLERED 'E' OCCUPANCY SHALL HAVE A 1 HR WALL.

SINGLE OCCUPANCY FIRE BARRIERS (TABLE 707.3.10): **2 HOUR RATING**

EXIT ACCESS TRAVEL DISTANCE IS **200** FEET FOR **'E'** (TABLE 1017.2)

FIRE OPENING PROTECTION (TABLE 716.5):
2 HOUR FIRE BARRIER: 1.5 HOURS, UP TO 100 SQ. IN. OF FIRE-RATED GLAZING.
1 HOUR CORRIDOR WALLS: 20 MIN. DOOR AND FIRE-RATED GLAZING

DRAFTSTOPPING OF ATTICS AND CONCEALED ROOF SPACES, (SECTION 718.4): REQUIRED IN UNSPRINKLERED COMBUSTIBLE CONSTRUCTION. HORIZONTAL AREAS ARE LIMITED TO 3,000 SQ. FT.

EXIT CALCULATIONS

TOTAL BUILDING AREA

OCCUPANCY TYPE - GROUP **'E'**
BUILDING TYPE: **III-B**
ALLOWABLE SF: **14,500** SQ FT (TABLE 506.2)
ACTUAL SF - **16,056** SQ FT

ALLOWABLE HEIGHT (TABLE 504.3) ALLOWABLE # OF STORIES (TABLE 504.4)
ALLOWABLE HEIGHT: **55** FT
ALLOWABLE NO. OF STORIES: **2**
ACTUAL BUILDING HEIGHT: **±35** FT
ACTUAL NO. OF STORIES: **1**

BUILDING AREA MODIFICATION (506.3)
FRONTAGE INCREASE (506.3.3)
CALCULATIONS: **At = At + (NS X If)**
(AREA INCREASE DUE TO FRONTAGE)
W (WIDTH OF PUBLIC WAY OR OPEN SPACE) = **50**
F (BUILDING PERIMETER THAT FRONTS PUBLIC WAY OR OPEN SPACE) = **170**
P (PERIMETER OF ENTIRE BUILDING) = **588**
170/588 = .29 >. .25
At=14,500 NS=14,500 If=.25 (TABLE 506.3.3)
At = 14,500 + (14,500 x .25) = 18,125 s.f.
ALLOWABLE AREA W / FRONTAGE INCREASE: **18,125** SF

OCCUPANT LOAD

OCCUPANT LOAD TOTAL (1004 & TABLE 1004.5) =
500 PERSONS

EXIT REQUIREMENTS

EXIT ACCESS (TABLE 1006.2.1 & TABLE 1006.3.3)
NO. OF EXITS REQUIRED: **3**
NO. OF EXITS FURNISHED: **3**

MEANS OF EGRESS WIDTH (1005.3)
EXIT WIDTH REQUIRED (.2 INCHES/OCC.): **102** INCHES
EXIT WIDTH PROVIDED: **201** INCHES
SEE PLAN FOR EXIT WIDTHS

MINIMUM CORRIDOR WIDTH (TABLE 1020.3) **72** INCHES

PLUMBING CALCULATIONS

PLUMBING REQUIREMENTS USE GROUP 'E'
BASED ON OCCUPANT LOAD = **500** PERSONS

TOILETS (TABLE 2902.1)
MEN'S (1 PER 50 OCC.) (**250** OCC.): 5R
WOMEN'S (1 PER 50 OCC.) (**250** OCC.): **5R**

LAVATORIES (TABLE 2902.1)
MEN'S (1 PER 50 OCC.) (**250** OCC.): **5R**
WOMEN'S (1 PER 50 OCC.) (**250** OCC.): **5R**

DRINKING FOUNTAINS (TABLE 2902.1)
(1 PER 100.): **5R**

SERVICE SINK (TABLE 2902.1): **1R**

PLUMBING PROVIDED TOTAL

TOILETS (TABLE 2902.1)
MEN'S - 3 W.C. 2 URINALS PROVIDED
WOMEN'S - 5 PROVIDED
TOILET: 1 UNISEX PROVIDED

LAVATORIES (TABLE 2902.1)
MEN'S - 5 PROVIDED
WOMEN'S - 5 PROVIDED
TOILET: 1 UNISEX PROVIDED

DRINKING FOUNTAINS (TABLE 2902.1)
6 PROVIDED

SERVICE SINK (TABLE 2902.1):
1 PROVIDED

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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1092
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	CODE PLAN CLASSROOM BLDG.
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	G1.1

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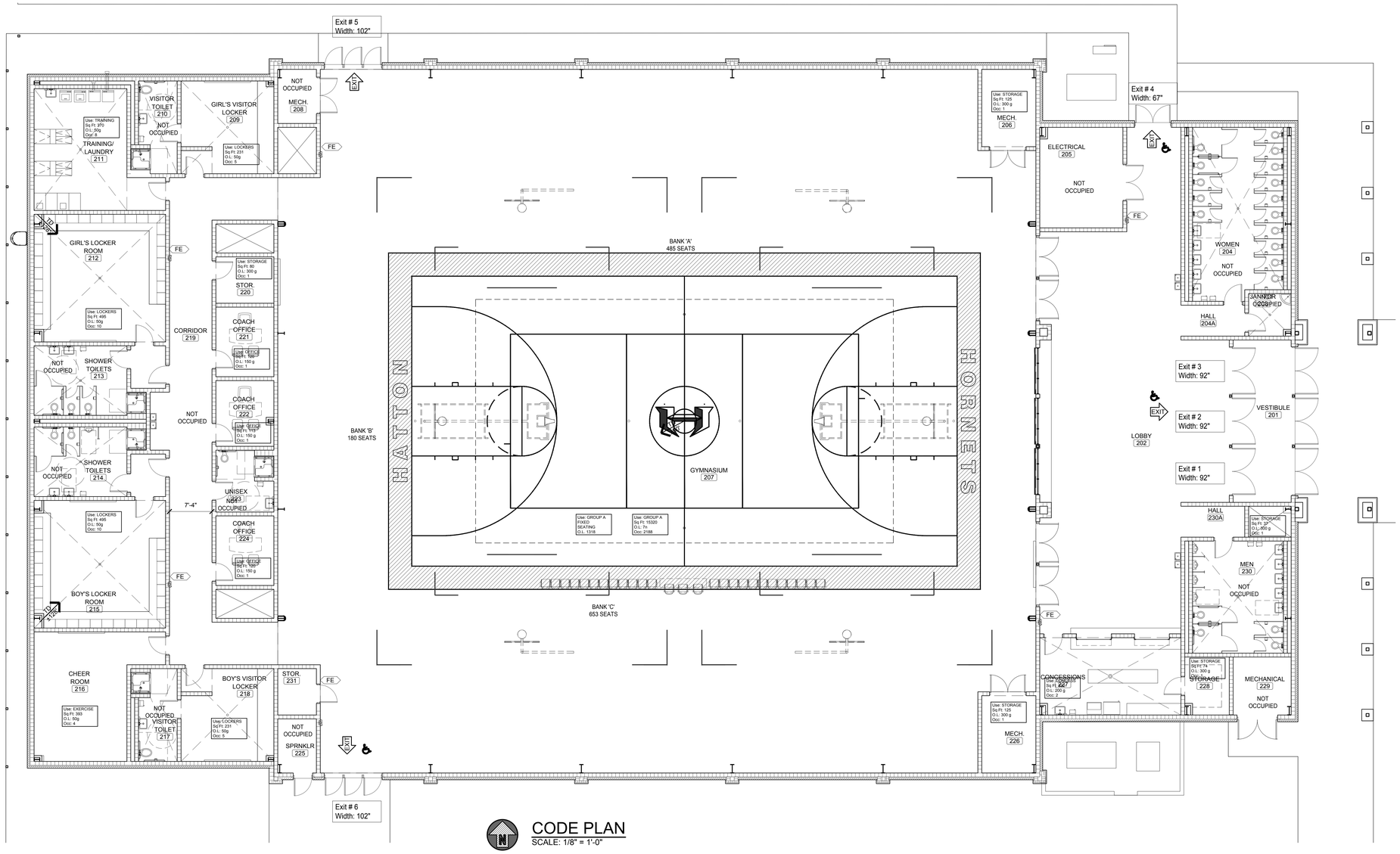
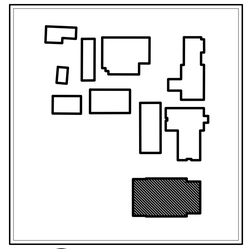


CODE PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
SCALE: NTS

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

CODE REVIEW

CODE: **2021 INTERNATIONAL BUILDING CODE**

OCCUPANCY TYPE: **GROUP 'A-4'**

SPRINKLERED: **YES**

NUMBER OF STORIES: **ONE**

CONSTRUCTION TYPE: **TYPE II-B**
TYPE **II-B**, REQUIRES THE FOLLOWING
FIRE RESISTANCE (TABLE 601):

STRUCTURAL FRAME:	**0 HOUR**
EXTERIOR BEARING WALLS:	**0 HOUR**
INTERIOR BEARING WALLS:	**0 HOUR**
EXTERIOR NONBEARING WALLS:	**0 HOUR**
INTERIOR NONBEARING WALLS:	**0 HOUR**
FLOOR CONSTRUCTION:	**0 HOUR**
ROOF CONSTRUCTION:	**0 HOUR**

OTHER REQUIREMENTS:

FIRE WALL RATING (TABLE 706.4): **NA**
OCCUPANCY SEPARATION (TABLE 508.4): **NA**
INCIDENTAL USE AREAS (TABLE 509): **NA**

CORRIDORS (TABLE 1020.2): 0 HRS SPRINKLERED EXCEPTION
STAIRS & SHAFT ENCLOSURES (707 & TABLE 707.3.10 NOT LEES THAN 508.4
IF APPLICABLE): **NA**

SINGLE OCCUPANCY FIRE BARRIERS
(TABLE 707.3.10): **2 HR**

EXIT ACCESS TRAVEL DISTANCE
IS **250** FEET FOR **A** (TABLE 1017.2)

EXIT CALCULATIONS

TOTAL BUILDING AREA

OCCUPANCY TYPE - GROUP **'A-4'**

BUILDING TYPE: **II-B**
ALLOWABLE SF: **38,000** SQ FT (TABLE 506.2)
ACTUAL SF - **26,035** SQ FT

ALLOWABLE HEIGHT
ALLOWABLE HEIGHT: **75** FT (TABLE 504.3)
ALLOWABLE NO. OF STORIES: **3 (TABLE 504.4)**
ACTUAL BUILDING HEIGHT: **± 36** FT
ACTUAL NO. OF STORIES: **1**

OCCUPANT LOAD

OCCUPANT LOAD TOTAL (1004 & TABLE 1004.1.2) =
OCCUPANT LOAD - ASSEMBLY AREA
2188 CONCENTRATED
(1318 FIXED SEATING)

OCCUPANT LOAD - OTHER AREAS 52 TOTAL CALCULATED OCCUPANT LOAD
FOR EXITING - 2240

EXIT REQUIREMENTS

EXIT ACCESS (1016 & TABLE 1006.3.3)
NO. OF EXITS REQUIRED: **4**
NO. OF EXITS FURNISHED: **SEE PLAN**
MEANS OF EGRESS WIDTH (TABLE 1005.3.2)
EXIT WIDTH REQUIRED (.2 INCHES.OCC): 448
EXIT WIDTH FURNISHED: 547
MAIN EXIT ASSEMBLY (SECTION 1030.2)
EXIT WIDTH REQUIRED (.2 INCHES/OCC): 224
EXIT WIDTH FURNISHED: 276
SEE PLAN FOR EXIT WIDTHS

PLUMBING CALCULATIONS

PLUMBING REQUIREMENTS USE GROUP A-4

BASED ON OCCUPANT LOAD FOR FIXED SEATING = **1318** PERSONS

TOILETS (TABLE 2902.1)
MEN'S (1 PER 75 OCC.) (**659** OCC.): **9R**
WOMEN'S (1 PER 40 OCC.) (**659** OCC.): **17R**

LAVATORIES (TABLE 2902.1)
MEN'S (1 PER 200 OCC.) (**659** OCC.): **4R**
WOMEN'S (1 PER 150 OCC.) (**659** OCC.): **5R**

DRINKING FOUNTAINS (TABLE 2902.1)
(1 PER 1000.): **2R**

SERVICE SINK (TABLE 2902.1): **1R**

PLUMBING PROVIDED TOTAL

TOILETS (TABLE 2902.1)
MEN'S - 7 W.C. 5 URINALS PROVIDED
WOMEN'S - 19 PROVIDED
OFFICE/REF: 1 UNISEX PROVIDED

LAVATORIES (TABLE 2902.1)
MEN'S - 8 PROVIDED
WOMEN'S - 8 PROVIDED
OFFICE/REF: 1 UNISEX PROVIDED

DRINKING FOUNTAINS (TABLE 2902.1)
6 PROVIDED

SERVICE SINK (TABLE 2902.1):
1 PROVIDED

CODE LEGEND

SYMBOL	DESCRIPTION
EXIT	PRIMARY BUILDING EXIT
TD / 250	TRAVEL DISTANCE NEAREST TO EXIT
♿	HANDICAP ACCESSIBLE
FE	FIRE EXTINGUISHER LOCATION (SEE DETAIL A9.1)
FSD	FIRE SEPERATION DISTANCE
EWR-10" EWP-34"	EXIT WIDTH REQUIRED EXIT WIDTH PROVIDED
168 / 340	ACTUAL OCCUPANT LOAD SERVED TOTAL EGRESS CAPACITY
3/4 HOUR	RATED DOOR ASSEMBLY

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1982
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : CODE PLAN GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : G1.2

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/~~G1.2 Code Plan - Gymnasium.dwg
- Wednesday, March 06, 2024 2:21:12 PM

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES CONCERNING CONFLICTS, RELOCATION, REMOVAL, AND INTERRUPTIONS OF SERVICE.
2. THE CONTRACTOR SHALL PRESERVE AND PROTECT ACCORDING TO THE INSTRUCTIONS OF THE UTILITY INVOLVED, ANY 'LIVE' UTILITIES LOCATED BY THE UTILITY COMPANY OR THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE IN POSSESSION OF ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION BEGINNING.
4. ANY CHANGES OR REVISIONS MADE TO THE SITE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE ALABAMA BUILDING COMMISSION AND ALL OTHER PERTINENT AGENCIES
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
6. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
7. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
8. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, SIDEWALKS ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
9. UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND GRADING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE AND DE-WATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBLY OF THE CONTRACTOR TO MINIMIZE TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MY BE NEEDED. UNDERCUTTING AND OTHER REPAIRS NECESSARY BECAUSE OF THE CONTRACTOR'S FAILURE TO DO SO WILL BE MADE AT HIS EXPENSE. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
10. ALL GRADING OPERATIONS SHALL BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SAID CONSULTANT IN ADVANCE OF ALL REQUIRED TESTING AND SECURING COPIES OF THE RESULTING REPORTS.
11. THE CONTRACTOR SHALL PAY ALL CONNECTION COSTS AND FEES, INCLUDING BY NOT LIMITED TO, TAPPING FEES, METER COSTS AND SETTING CHARGES, AND CONNECTION CHARGES.
12. ANY EXISTING ABANDONED SANITARY SEWER LATERALS, WATER LINES, STORM SEWERS AND GAS LINES, ETC. SHALL BE CAPPED AND PLUGGED OR REMOVED AS REQUIRED BY THE APPROPRIATE UTILITY PROVIDER OR GOVERNING AGENCY, AND SHOULD BE PERFORMED PER THE RESPECTIVE ENTITY'S STANDARDS AND SPECIFICATIONS.
13. ALL SPOT ELEVATIONS ARE AT TOP OF CURB, PAVEMENT EDGE, GUTTER LINE, OR GROUND LEVEL UNLESS OTHERWISE NOTED.
14. ALL DIMENSIONS SHOWN ARE TO THE BACK OF CURB, FACE OF BUILDING OR AS SHOWN IN THE PLANS.
15. ALL STORM DRAIN MATERIAL SHALL BE RCP UNLESS OTHERWISE SPECIFIED.

GEOTECHNICAL NOTES

1. SEE THE GEOTECHNICAL REPORT PERFORMED BY MORELL ENGINEERING, INC. FOR GENERAL EARTHWORK AND PAVEMENT EVALUATIONS AND RECOMMENDATIONS. SPECIFIC CONSTRUCTION CONCERNS AND ACTUAL CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE INVESTIGATION AND EVALUATIONS AND RECOMMENDATIONS CONTAINED THEREIN.

BEST MANAGEMENT PRACTICES NOTES:

1. ALL BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, (JULY 2018 OR MOST CURRENT) BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE ("BLUE BOOK"). THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE HANDBOOK AND THE STANDARDS AND MATERIALS CONTAINED THEREIN. THE HANDBOOK MAY BE DOWNLOADED FROM THE ALABAMA SOIL & WATER CONSERVATION COMMITTEE WEBSITE (alabamasoilandwater.gov).
2. THE MAINTENANCE OF ALL BEST MANAGEMENT PRACTICES, SO AS TO BE AN EFFECTIVE BARRIER TO EROSION AND SEDIMENTATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH ALL ADEM AND EPA BEST MANAGEMENT PRACTICES AND THE NPDES PERMIT ASSOCIATED WITH THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND/OR SUPPLEMENTATION OF ANY CONTROL MEASURES THAT ARE NOT FUNCTIONING PROPERLY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE CONSIDERED A MINIMUM.
3. OTHER THAN LAND-CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP IN ACCORDANCE WITH THE BMP PLANS, ANY DOWN SLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND UPSLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY.
4. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN 3:1, ANY SLOPE OR FILL WHICH HAS BEEN GRADED SHALL BE PLANTED OR OTHERWISE BE PROVIDED GROUND COVER WITHIN FOURTEEN (14) DAYS OF COMPLETION. THE DOWN GRADE BMPS SHALL REMAIN IN PLACE UNTIL THE GRADED SLOPES HAVE BEEN PERMANENTLY STABILIZED.
5. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED MONTHLY IN DRY PERIODS AND WITHIN 24 HOURS AFTER A QUALIFYING EVENT OF .75 INCH IN A 24 HOUR PERIOD. DURING PROLONGED RAINFALL EVENTS, DAILY INSPECTION MAY BE NECESSARY. NEEDED REPAIRS WILL BE COMPLETED IN A EXPEDIENT MANNER. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH INSPECTIONS AND REPAIRS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EROSION AND SEDIMENT OFF ADJOINING PROPERTIES. AT HIS EXPENSE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SEDIMENTS AND DEBRIS ESCAPING THIS PROJECT SITE, THE REMEDIATION AND REPAIR THAT MAY OCCOR, AND ANY FINES OR PENALTIES LEVIED AGAINST THE PROJECT BY REGULATORY AGENCIES DUE TO DEFICIENCIES OF CONTROL MEASURES.

SEEDING AND GRASSING NOTES:

1. SCOPE OF WORK
   GENERAL REQUIREMENTS: PROVIDE SEEDBED PREPARATION, SOIL AMENDMENTS, PLANTING, MULCHING (OR EROSION CONTROL BLANKET) IN ACCORDANCE WITH THE "BLUE BOOK" TO ALL AREAS INSIDE OR OUTSIDE THE LIMITS OF CONSTRUCTION THAT HAVE BEEN DISTURBED BY THE CONTRACTOR'S OPERATIONS.
2. MATERIALS
   LIME: 2000 POUNDS PER ACRE OF GROUND AGRICULTURAL LIME SHALL BE INCORPORATED INTO THE SOIL.

   FERTILIZER: USE 8-24-24 OR EQUIVALENT, APPLYING 400 POUNDS PER ACRE (9 LBS PER 1000 SQUARE FEET) STARTING. WHEN VEGETATION HAS EMERGED TO A STAND AND IS GROWING, APPLY 30 POUNDS PER ACRE (0.8 POUNDS PER 1000 SQUARE FEET) OF ADDITIONAL NITROGEN FERTILIZER SHALL BE APPLIED.

   SEED: DELIVER SEED TO THE SITE IN ORIGNAL SEALED PACKAGES BEARING THE PRODUCER'S GUARANTEED ANALYSIS FOR PERCENTAGES OF MIXTURE, PURITY, GERMINATION, WEEDSEED CONTENT, AND INERT MATERIAL. WET, MOLDY, OLD, OR OTHERWISE DAMAGED SEED WILL BE REJECTED.

   MULCH: SHALL BE ORGANIC MULCH SPREAD EITHER BY HAND OR MECHANICALLY AND PROVIDE 75% GROUND COVER.

   SOLID SOD: BERMUDA SOD

TEMPORARY SEEDING SPECIFICATION:

1. REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION, SECTION 665, SECTION 860, AND OTHERS THAT APPLY.

PERMANENT SEEDING SPECIFICATION:

1. REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION, SECTION 650, SECTION 652, SECTION 860 AND OTHERS THAT APPLY. USE ZONE 1 - AREAS SUBJECT TO FREQUENT MOWING.

SOLID SOD SPECIFICATION:

1. REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION, SECTION 650, SECTION 652, SECTION 654, SECTION 860 AND OTHERS THAT APPLY.

UTILITY OWNERS:

POWER:
JOE WHEELER EMC
LOCATION:
25700 AL HIGHWAY 24 (LOCATION)
PO BOX 460 (MAIL CORRESPONDENCE)
TRINITY, ALABAMA 35673
256.552.2300

WATER:
WEST LAWRENCE WATER CO-OP
7688 COUNTY ROAD 23
MT. HOPE, ALABAMA 35651
256.974.9198 OR
256.974.9114 (AFTER HOURS)

GAS:
NORTHWEST GAS DISTRICT
310 2ND STREET SW
HAMILTON, ALABAMA 35570
205.921.3106

	EXISTING
WATER LINE	W_x
SANITARY SEWER LINE	SS_x
EXISTING GAS LINE	G_x
COMMUNICATION LINE (UNDERGROUND)	C_x — C_x
POWER (OVERHEAD)	E_x
POWER (UNDERGROUND	E_x — E_x
POWERPOLE	PP
SANITARY SEWER MANHOLE	SS
CLEANOUT	CO
GAS VALVE	GV
WATER METER	WM
DRAINAGE PIPE	
STORM MANHOLE/INLET	D
SIGN	
LIGHT POLE	LP
WATER VALVE	WV
GAS METER	GM
AIR CONDITIONING UNIT	AC
CONTOUR - MAJOR	100
CONTOUR - MINOR	99

LEGEND	PROPOSED
WATER LINE	W
SANITARY SEWER LINE	SS
EXISTING GAS LINE	G
COMMUNICATION LINE (UNDERGROUND)	C — C
POWER (OVERHEAD)	E
POWER (UNDERGROUND	E
POWERPOLE	PP
SANITARY SEWER MANHOLE	S
CLEANOUT	CO
GAS VALVE	GV
WATER METER	WM
DRAINAGE PIPE	SD
STORM MANHOLE/INLET (GI: GRATE, JB: JUNCT)	
SIGN	
LIGHT POLE	LP
WATER VALVE	WV
GAS METER	GM
CONTOUR - MAJOR	100
CONTOUR - MINOR	99

MORELL ENGINEERING
PROJECT NO: 23-0192

ADDITIONS
TO
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MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

SHEET TITLE : GENERAL SITE PLAN NOTES

MCKEE JOB # : 23.229

DRAWN BY : BHD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-0.1

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- Tuesday, March 05, 2024 14:06:44

	EXISTING
WATER LINE	W_x
SANITARY SEWER LINE	SS_x
EXISTING GAS LINE	G_x
COMMUNICATION LINE (UNDERGROUND)	C_x
POWER (OVERHEAD)	E_x
POWER (UNDERGROUND	E_x
POWERPOLE	PP
SANITARY SEWER MANHOLE	SM
CLEANOUT	CO
GAS VALVE	GV
WATER METER	WM
DRAINAGE PIPE	
STORM MANHOLE/INLET	D
SIGN	
LIGHT POLE	LP
WATER VALVE	WV
GAS METER	G
AIR CONDITIONING UNIT	AC
CONTOUR - MAJOR	100
CONTOUR - MINOR	99

0 30 60 90

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ALABAMA REGISTERED ARCHITECT

SHEET TITLE :	EXISTING CONDITIONS
MCKEE JOB # :	23.229
DRAWN BY :	BHD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : C-1.0

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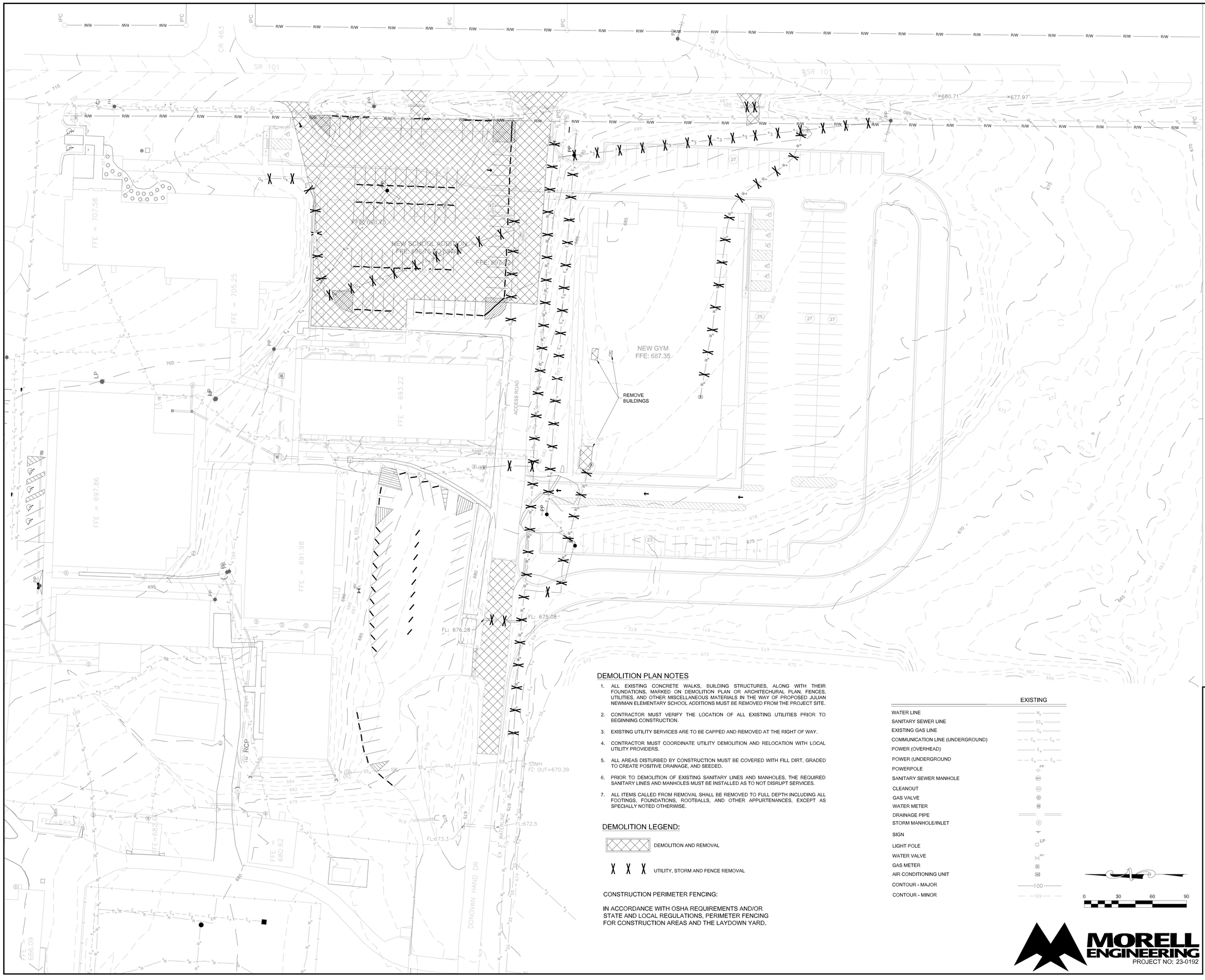

DEMOLITION PLAN NOTES

1. ALL EXISTING CONCRETE WALKS, BUILDING STRUCTURES, ALONG WITH THEIR FOUNDATIONS, MARKED ON DEMOLITION PLAN OR ARCHITECHURAL PLAN, FENCES, UTILITIES, AND OTHER MISCELLANEOUS MATERIALS IN THE WAY OF PROPOSED JULIAN NEWMAN ELEMENTARY SCHOOL ADDITIONS MUST BE REMOVED FROM THE PROJECT SITE.
2. CONTRACTOR MUST VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. EXISTING UTILITY SERVICES ARE TO BE CAPPED AND REMOVED AT THE RIGHT OF WAY.
4. CONTRACTOR MUST COORDINATE UTILITY DEMOLITION AND RELOCATION WITH LOCAL UTILITY PROVIDERS.
5. ALL AREAS DISTURBED BY CONSTRUCTION MUST BE COVERED WITH FILL DIRT, GRADED TO CREATE POSITIVE DRAINAGE, AND SEEDED.
6. PRIOR TO DEMOLITION OF EXISTING SANITARY LINES AND MANHOLES, THE REQUIRED SANITARY LINES AND MANHOLES MUST BE INSTALLED AS TO NOT DISRUPT SERVICES.
7. ALL ITEMS CALLED FROM REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, ROOTBALLS, AND OTHER APPURTENANCES, EXCEPT AS SPECIALLY NOTED OTHERWISE.

DEMOLITION LEGEND:

DEMOLITION AND REMOVAL

UTILITY, STORM AND FENCE REMOVAL

CONSTRUCTION PERIMETER FENCING:

IN ACCORDANCE WITH OSHA REQUIREMENTS AND/OR STATE AND LOCAL REGULATIONS, PERIMETER FENCING FOR CONSTRUCTION AREAS AND THE LAYDOWN YARD.

	EXISTING
WATER LINE	W_x
SANITARY SEWER LINE	SS_x
EXISTING GAS LINE	G_x
COMMUNICATION LINE (UNDERGROUND)	C_x
POWER (OVERHEAD)	E_x
POWER (UNDERGROUND	E_x
POWERPOLE	PP
SANITARY SEWER MANHOLE	SM
CLEANOUT	CO
GAS VALVE	GV
WATER METER	WM
DRAINAGE PIPE	
STORM MANHOLE/INLET	D
SIGN	
LIGHT POLE	LP
WATER VALVE	WV
GAS METER	GM
AIR CONDITIONING UNIT	AC
CONTOUR - MAJOR	100
CONTOUR - MINOR	99

0 30 60 90

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PROJECT NO: 23-0192

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ALABAMA REGISTERED ARCHITECT

SHEET TITLE :	DEMOLITION PLAN
MCKEE JOB # :	23.229
DRAWN BY :	BHD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : C-1.1

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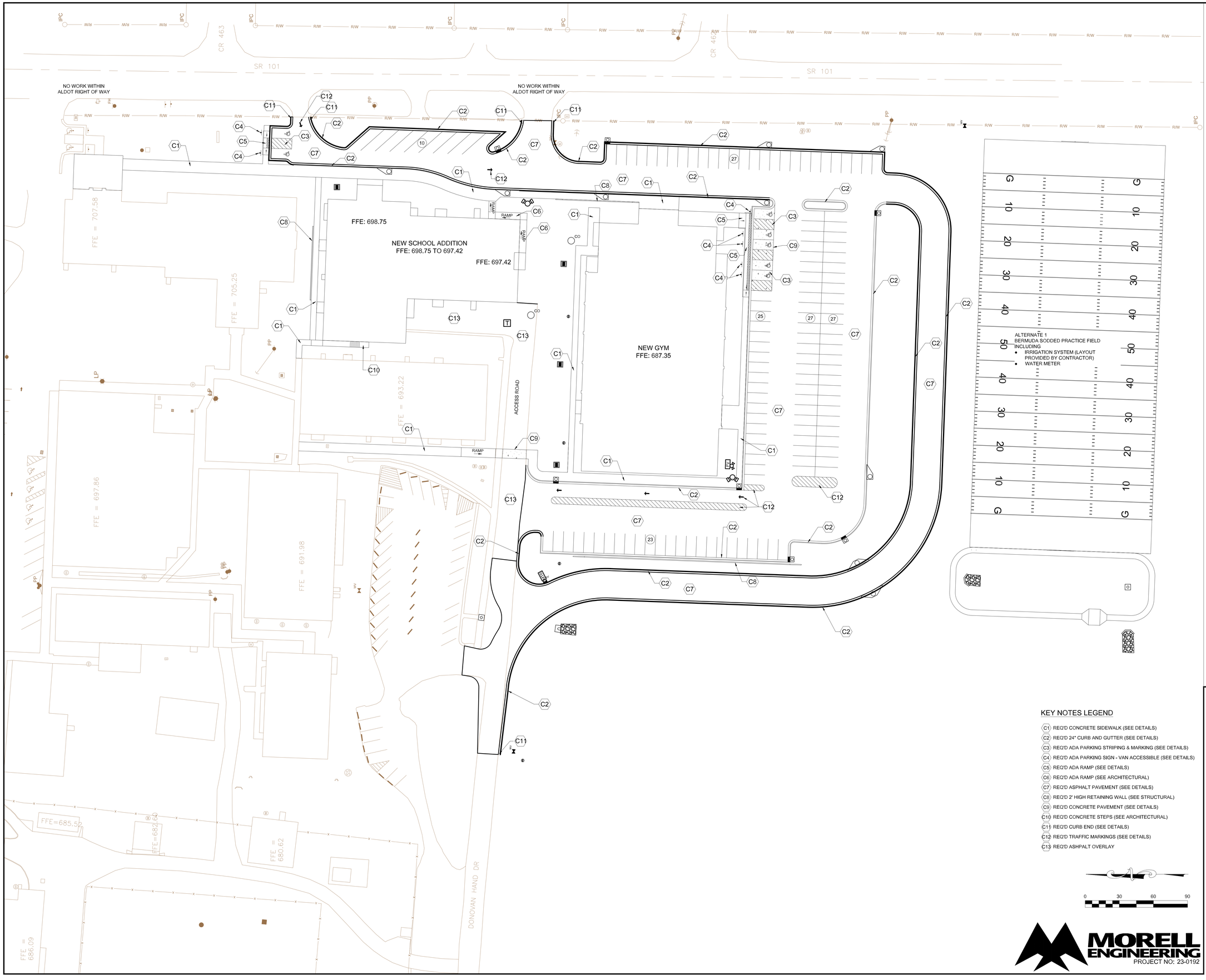

KEY NOTES LEGEND

- C1 REQ'D CONCRETE SIDEWALK (SEE DETAILS)
- C2 REQ'D 24" CURB AND GUTTER (SEE DETAILS)
- C3 REQ'D ADA PARKING STRIPING & MARKING (SEE DETAILS)
- C4 REQ'D ADA PARKING SIGN - VAN ACCESSIBLE (SEE DETAILS)
- C5 REQ'D ADA RAMP (SEE DETAILS)
- C6 REQ'D ADA RAMP (SEE ARCHITECTURAL)
- C7 REQ'D ASPHALT PAVEMENT (SEE DETAILS)
- C8 REQ'D 2' HIGH RETAINING WALL (SEE STRUCTURAL)
- C9 REQ'D CONCRETE PAVEMENT (SEE DETAILS)
- C10 REQ'D CONCRETE STEPS (SEE ARCHITECTURAL)
- C11 REQ'D CURB END (SEE DETAILS)
- C12 REQ'D TRAFFIC MARKINGS (SEE DETAILS)
- C13 REQ'D ASHPALT OVERLAY

0 30 60 90

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ALABAMA REGISTERED ARCHITECT STEPHEN D. HILL

SHEET TITLE :	SITE PLAN
MCKEE JOB # :	23.229
DRAWN BY :	BHD
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REVISED DATE:	
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SHEET NO. : C-2.0

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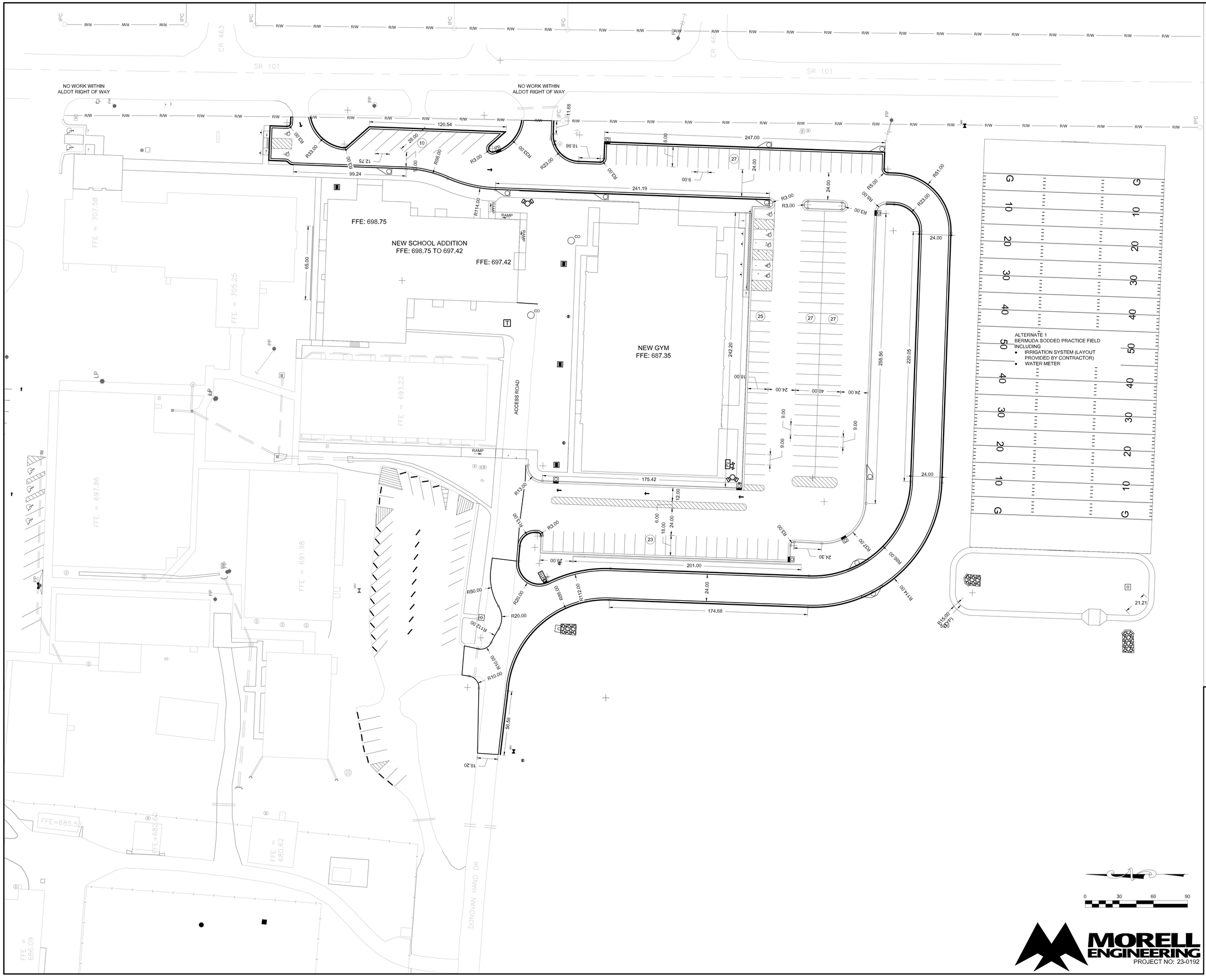

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SHEET TITLE :	GEOMETRIC LAYOUT
MCKEE JOB # :	23.229
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DATE:	03.06.2024
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REVISED DATE:	
REVISED DATE:	

MORELL ENGINEERING
PROJECT NO: 23-0192

SHEET NO. : C-3.0

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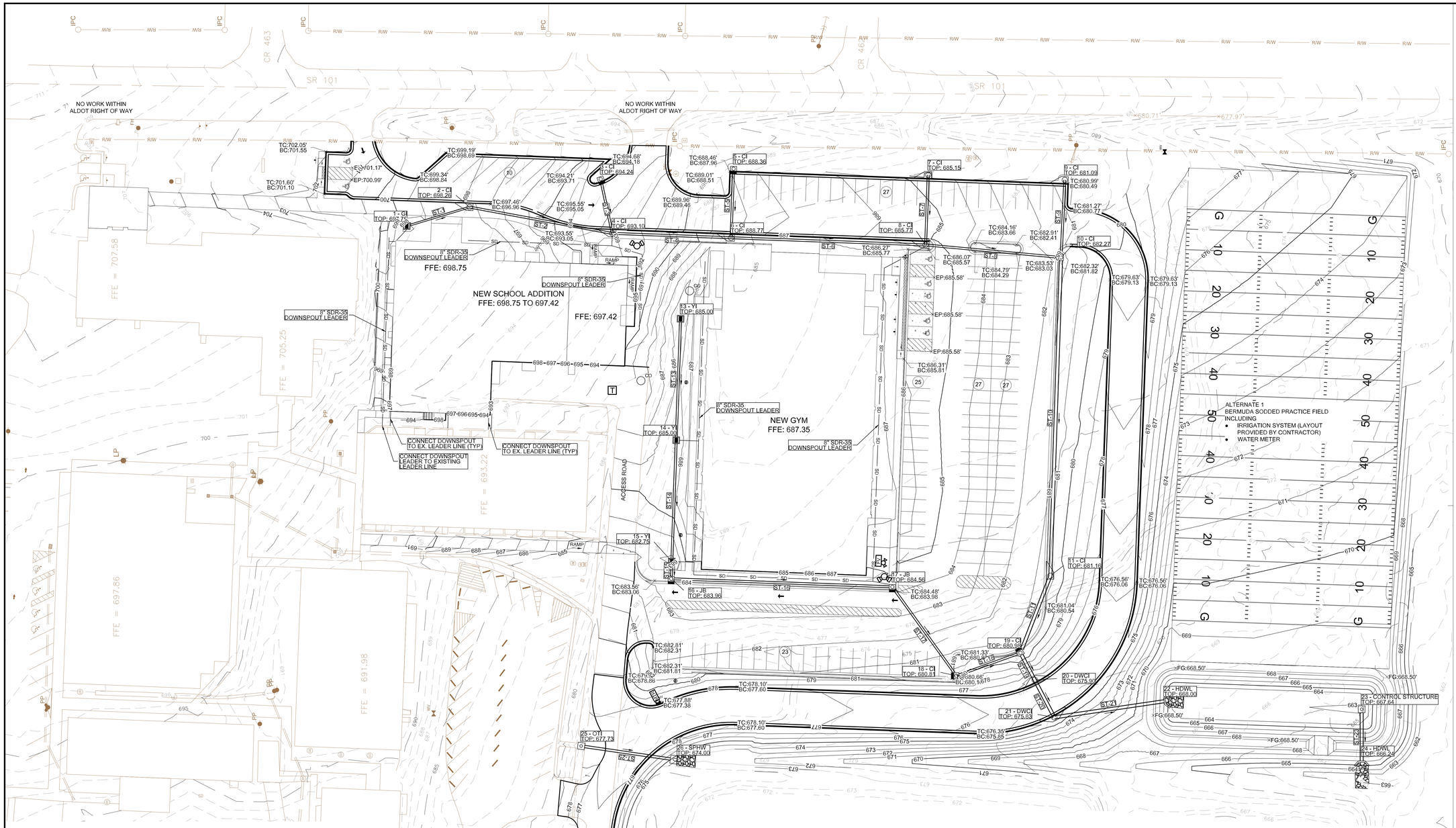


STORM SEWER STRUCTURE CHART						
PIPE NO	SIZE (IN)	MATERIAL	INV. IN	INV. OUT	LENGTH	SLOPE (%)
ST-1	12	RCP III	694.50	694.02	48	1.00
ST-2	15	RCP III	693.77	690.10	106	3.47
ST-3	15	RCP III	690.74	690.10	40	1.57
ST-5	15	RCP III	684.49	684.20	50	0.57
ST-4	15	RCP III	690.00	684.20	87	6.70
ST-6	15	RCP III	684.10	680.29	142	2.68
ST-7	15	RCP III	680.54	680.29	51	0.48
ST-8	15	RCP III	680.29	677.22	99	3.10
ST-9	15	RCP III	678.16	677.87	57	0.53
ST-10	24	RCP III	677.12	675.90	232	0.52
ST-13	15	RCP III	682.50	681.94	88	0.64
ST-14	15	RCP III	681.84	680.25	88	1.80
ST-15	15	RCP III	680.15	680.05	13	0.75
ST-16	15	RCP III	679.95	679.22	161	0.45
ST-17	15	RCP III	679.12	677.04	80	2.60
ST-11	24	RCP III	675.80	674.81	60	1.63
ST-18	15	RCP III	677.04	675.46	50	3.17
ST-19	24	RCP III	674.71	672.62	22	9.40
ST-20	24	RCP III	671.12	670.75	31	1.22
ST-21	24	RCP III	670.65	664.10	81	8.10
ST-25	18	RCP III	674.23	673.52	71	1.00
ST-23	24	RCP III	662.62	662.24	38	1.00

STORM DRAINAGE NOTES:

- IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, SIDEWALKS ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDING OR OR PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SODDED, MULCHED, FERTILIZED AND WATERED TO PROVIDE A HEARTY MOWABLE STAND OF GRASS. SMALL ROCKS MUST BE REMOVED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO ANY DEMOLITION REGARDING ITEMS TO BE SALVAGED, RECYCLED, AND REUSED. CONTRACTOR SHALL REMOVE ITEMS TO BE SALVAGED WITH EXTREME CAUTION TO PREVENT DAMAGE. CONTRACTOR SHALL TURN ALL SALVAGED ITEMS OVER TO OWNER.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STORM PIPE MATERIALS TO MORELL ENGINEERING AND ARCHITECT PRIOR TO INSTALLATION AND/OR FABRICATION.
- ALL PROPOSED STORM INLETS ARE TO BE LOCATED AT LOWPOINTS. GRADING SHALL BE TO DIRECT RUNOFF TO THESE INLETS.
- STORM DRAINAGE SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PIPE SLOPES, INVERTS, AND POINTS OF CONNECTION PRIOR TO CONSTRUCTION, NOTIFY MORELL ENGINEERING OF ANY DISCREPANCIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED STORM PIPE GRADES AND POINTS OF CONNECTION PRIOR TO INSTALLATION. MORELL ENGINEERING SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- CONTRACTOR SHALL BOOT THE EXISTING DOWNSPOUTS LOCATED ALONG NORTHERN FACE OF THE BRICK SCHOOL BUILDING TO THE REQUIRED 12" ROOF DRAIN

ADA COMPLIANCE NOTE:

- ALL NEW SIDEWALKS SHALL BE ADA COMPLIANT. MAXIMUM SIDEWALK CROSS SLOPE CANNOT EXCEED 2%. MAXIMUM CONCRETE RUNNING SLOPE CANNOT EXCEED 5% UNLESS ADA COMPLIANT HANDICAP RAMPS AND LANDINGS ARE INSTALLED (SEE DETAILS). IF CONSTRUCTION OF THE SIDEWALKS WITHIN THESE PARAMETERS IS UNATTAINABLE, CONTRACTOR SHALL IMMEDIATELY CONTACT MORELL ENGINEERING BEFORE CONCRETE CONSTRUCTION BEGINS.

0 30 60 90

MORELL ENGINEERING
PROJECT NO: 23-0192

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED ARCHITECT

SHEET TITLE : GRADING & DRAINAGE PLAN

MCKEE JOB # : 23.229

DRAWN BY : BHD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-4.0

- C:\Users\ben\Dropbox (Morell Engineering)\Morell-Engineering-Server\Projects\2023\23-0192 HATTON HIGH SCHOOL - CIVIL\DWG\23-0192 DESIGN.dwg
- Tuesday, March 05, 2024 14:06:46

NO WORK WITHIN ALDOT RIGHT OF WAY

NO WORK WITHIN ALDOT RIGHT OF WAY

REQ'D CONNECTION COORDINATE WITH UTILITY OWNER

SR 101

CR 463

FFE: 698.75

NEW SCHOOL ADDITION
FFE: 698.75 TO 697.42

FFE: 697.42

NEW GYM
FFE: 687.35

FFE = 707.58

FFE = 705.25

FFE = 693.22

FFE = 697.86

FFE = 691.98

ACCESS ROAD

REQ'D FIRE HYDRANT ASSEMBLY

REQ'D THRUST BLOCK

REQ'D 2" SCH-40 PVC WATERLINE

REQ'D 2" SCH-40 PVC WATERLINE

REQ'D 2" TEE

REQ'D 4" SANITARY LATERAL @ 1.0% MIN

REQ'D 4" SANITARY LATERAL @ 1.0% MIN

MH 3
TOP: 686.16
INV OUT:(W) 679.99

REQ'D 6" CL-250 PVC FIRE LINE

REQ'D 2" SCH-40 WATER LINE

111 LF - 8" SDR26 PVC @ 2.50%

REQ'D 2" SCH-40 PVC WATERLINE

REQ'D 4" SANITARY LATERAL @ 1.0% MIN

MH 2
TOP: 685.18
INV IN:(E) 677.21
INV OUT:(W) 677.01

REQ'D 2" TEE

REQ'D 2" SCH-40 PVC WATERLINE

REQ'D THRUST BLOCK

REQ'D 6" CL-250 PVC FIRE LINE

REQ'D 2" SCH-40 PVC WATER LINE

106 LF - 8" SDR26 PVC @ 2.50%

REQ'D THRUST BLOCK

REQ'D FIRE VAULT & FDC

REQ'D 6" TEE

REQ'D FIRE HYDRANT ASSEMBLY

REQ'D 6" TEE & THRUST BLOCK

REQ'D 6" CL-250 PVC FIRE LINE

REQ'D 6" CL-250 PVC WATER LINE

REQ'D DOMESTIC METER

MH 1
TOP: 680.19
INV IN:(E) 674.35
INV OUT:(W) 672.35

REQ'D 6" CL-250 PVC WATER LINE

REQ'D 6" TEE W/ 6" M.J. PLUG FOR 2"

176 LF - 8" SDR26 PVC @ 1.00%

REQ'D 6" M.J. PLUG FOR 3"

EX MH
TOP: 675.00
IN:(E) 670.59
OUT: 670.39

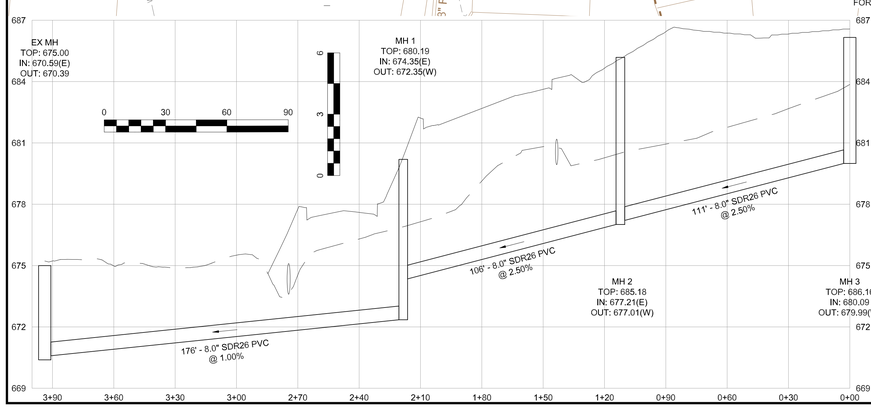
SSMH
FL OUT=670.39

EX 3" WATERLINE

ALTERNATE 1
BERMUDA SODDED PRACTICE FIELD
INCLUDING
- IRRIGATION SYSTEM (LAYOUT PROVIDED BY CONTRACTOR)
- WATER METER

UTILITY NOTE:

SEE PLUMBING FOR CONTINUATION



ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE :	UTILITY PLAN
MCKEE JOB # :	23.229
DRAWN BY :	BHD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

MORELL ENGINEERING
PROJECT NO: 23-0192

SHEET NO. : C-5.0

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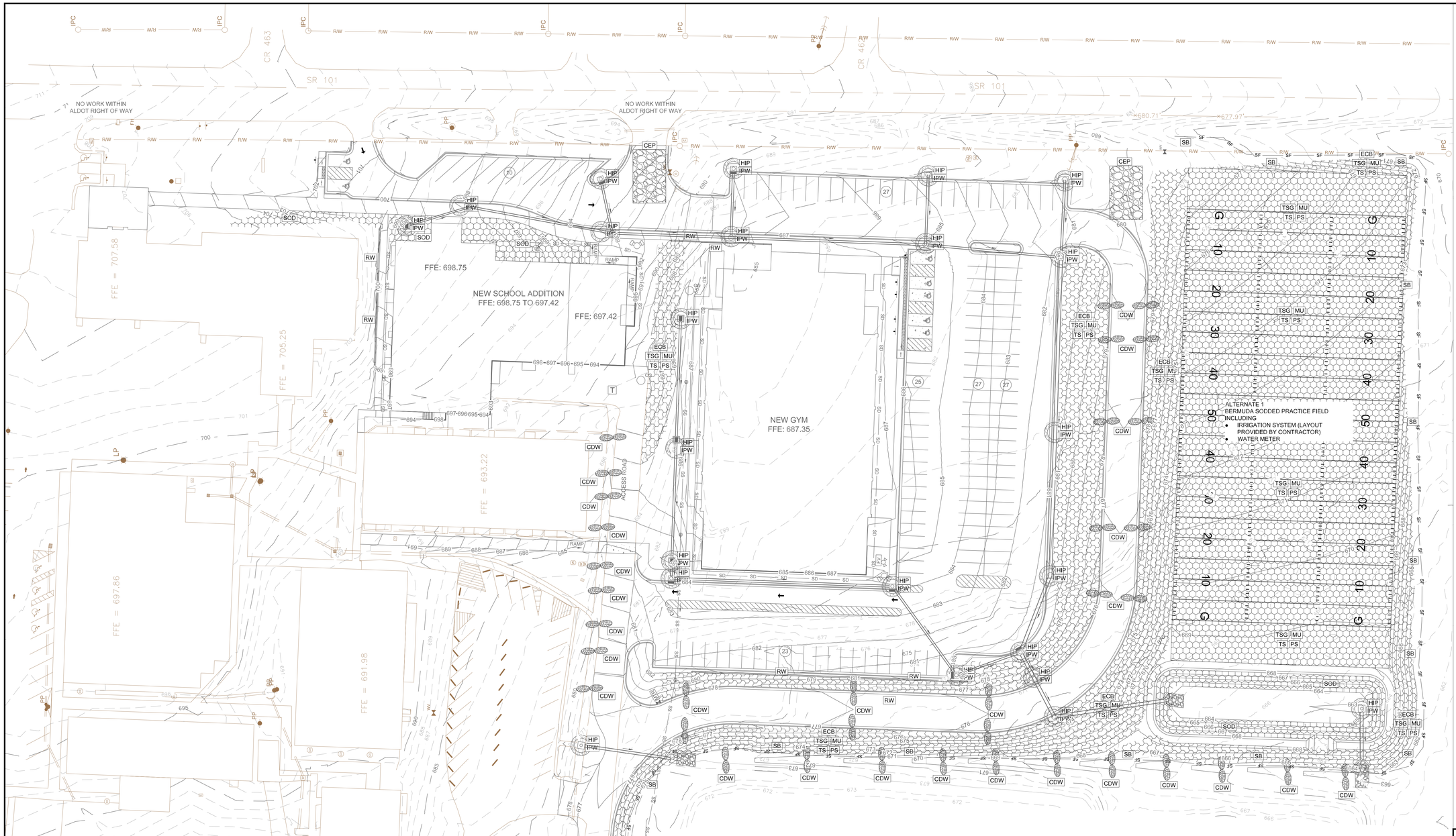

EROSION CONTROL NOTES:

- SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A "NOTICE OF INTENT"(NOI) FROM ADEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THE OWNER THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH ADEM RULES & REGULATIONS. DOCUMENTATION OF INSPECTIONS BY A Q.C.I. OR Q.C.P. SHALL BE MAINTAINED BY THE CONTRACTOR AND PROVIDED TO THE OWNER AT HIS/HER REQUEST. ANY AND ALL FEES, FINES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING THE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- EROSION CONTROL DEVICES SHOWN ON THESE PLANS ARE A MINIMUM. ADDITIONAL DEVICES SHALL BE INSTALLED AS REQUIRED TO PREVENT SILTATION, EROSION AND OTHER DEGRADATION OR POLLUTION TO THE SITE OR ADJACENT PROPERTIES, STREAMS, DITCHES, AND PUBLIC ROADWAYS.
- EROSION CONTROL DEVICES SHALL INCLUDE, BUT NOT LIMITED, TO THE FOLLOWING DEVICES: SILT FENCING, SEDIMENT BASINS, DETENTION PONDS, STRAW WATTLES , CHECK DAMS, FILTER BERMS, JUTE MATTING, VEGETATIVE FILTER STRIPS, TURF REINFORCEMENT MAT, DIVERSION BERMS, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES IN GOOD OPERATING CONDITION DURING ALL LAND DISTURBING ACTIVITIES. THIS RESPONSIBILITY SHALL INCLUDE THE CLEANUP AND/OR REPAIRS TO THE DEVICES AT NO ADDITIONAL COST TO THE OWNER.
- EROSION CONTROL DEVICES SHALL BE MONITORED AND MAINTAINED UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED AND AFTER EACH RAINFALL GREATER THAN 0.75 INCHES IN A 24 HOUR PERIOD. ANY WIND GUSTS GREATER THAN 25 MPH, AND ANY SUSTAINED WINDS GREATER THAN 20 MPH IN A 24 HOUR PERIOD.
- AFTER ALL LAND DISTURBANCE ACTIVITIES HAVE CEASED AND AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED, THE EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND THE AREA CLEANED AND DRESSED.
- DEWATERING OPERATIONS MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR POLLUTION TO ADJACENT PROPERTIES, STREAMS, DITCHES, OR PUBLIC ROADWAYS.
- A GRAVELED ACCESS DRIVE OF SUFFICIENT SIZE SHALL BE AT EACH SITE ENTRANCE/EXIT TO PREVENT TRACKING OF DIRT AND SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES THE ROADWAY, THEN IT MUST BE CLEANED AT THE END OF EACH WORKDAY.
- ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
- ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 13 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATIONS SECTION 652 AND 656.
- ALL PREVIOUSLY GRADED AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.
- PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
- ALL EXISTING STREAMS, DITCHES, ETC. SHALL BE PROTECTED FROM SEDIMENTS AND SILTS BY SILT FENCING, WATTLES, BRUSH BERMS, ETC.
- WATTLES OR SILT FENCING SHALL BE INSTALLED AT ALL INLETS UPON THE COMPLETION OF EACH INLET.
- RIP RAP SHALL BE PLACED AT EACH HEADWALL IMMEDIATELY FOLLOWING CONSTRUCTION OF EACH HEADWALL.
- GEOTEXTILE SHALL BE PLACED ON ALL DITCH BOTTOMS & 1' UP EACH SIDE. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

EROSION AND SEDIMENT CONTROL LEGEND

	SITE PREPARATION		RUNOFF CONVEYANCE
CEP	CONSTRUCTION EXIT PAD	CDW	WATTLE CHECK DAM
TSG	TOPSOILING		
	SURFACE STABILIZATION		**SEDIMENT CONTROL**
SOD	BERMUDA SODDING	HIP	HDPE INLET PROTECTION
RW	RETAINING WALL	IPW	WATTLE INLET PROTECTION
ECB	EROSION CONTROL BLANKET	SB	SEDIMENT BARRIER
TS	TEMPORARY SEEDING		
PS	PERMANENT SEEDING		
MU	MULCHING		

0 30 60 90

MORELL ENGINEERING
PROJECT NO: 23-0192

ADDITIONS TO HATTON SCHOOL

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SHEET TITLE :	EROSION & SEDIMENT CONTROL PLAN
MCKEE JOB # :	23.229
DRAWN BY :	BHD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : C-6.0

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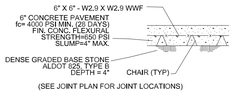
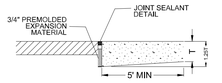
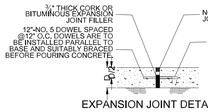
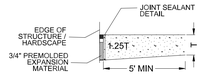




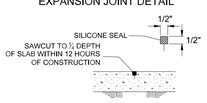
CONCRETE/ASPHALT INTERFACE DETAIL



EXPANSION JOINT DETAIL

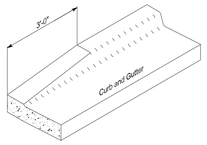


THICKEND EDGE EXPANSION JOINT AT STRUCTURE



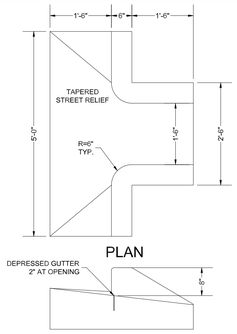
CONTRACTION JOINT DETAIL

CONCRETE PAVEMENT DETAILS
NOT TO SCALE

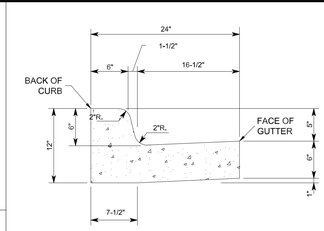


CURB END DETAIL
NOT TO SCALE

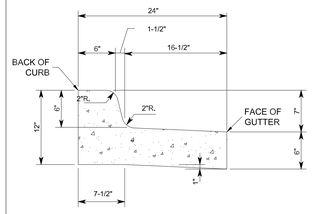
NOTE: REQUIRED AT CURB AND GUTTER TERMINATION



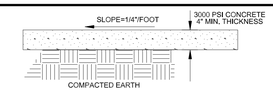
CURB CUT DETAIL
NOT TO SCALE



24" CURB AND GUTTER DETAIL
NOT TO SCALE

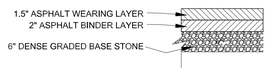


24" SPILL OVER CURB AND GUTTER DETAIL
NOT TO SCALE



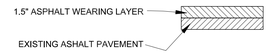
NOTES:
1. SEE SITE PLAN FOR SIDEWALK WIDTH.
2. PROVIDE 1 1/2" DEEP BY 1/8" WIDE CONTROL JOINTS EVERY 5' WITH EXPANSION JOINTS EVERY 50'. EXPANSION MATERIAL CAN BE FILTER BOARD OR A TREATED 1"x4".

SIDEWALK DETAIL
NOT TO SCALE



PAVEMENT MATERIALS: PER ALDOT 2018 CONSTRUCTION SPECS.

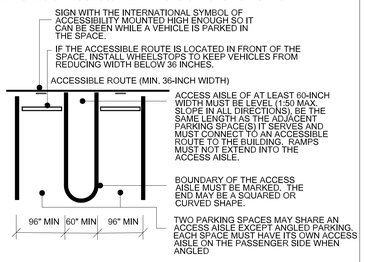
ASPHALT PAVING BUILD-UP DETAIL
NOT TO SCALE



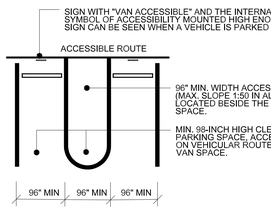
PAVEMENT MATERIALS: PER ALDOT 2018 CONSTRUCTION SPECS.

ASPHALT PAVING OVERLAY BUILD-UP DETAIL
NOT TO SCALE

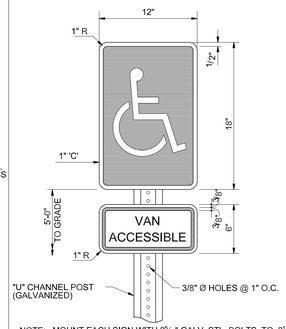
FEATURES OF ACCESSIBLE PARKING SPACES FOR CARS



THREE ADDITIONAL FEATURES FOR VAN-ACCESSIBLE PARKING SPACES

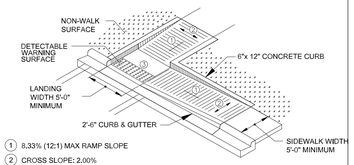


ADA PARKING STRIPING & MARKING DETAIL
NOT TO SCALE



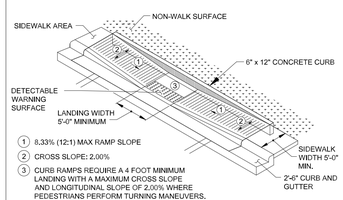
NOTE: MOUNT EACH SIGN WITH 2 5/16" GALV. STL. BOLTS, TO 3½" (4LB/FT) "U" CHANNEL SET 1'-6" MIN. BELOW FINISH GRADE & ENCASED IN 6" Ø CONCRETE FILLED HOLE. SHALL SHALL BE PLACED AS NOT TO BE OBSCURED BY A VEHICLE PARKED IN THE SPACE

HANDICAPPED PARKING SIGN DETAIL
NOT TO SCALE



1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A 4 FOOT MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

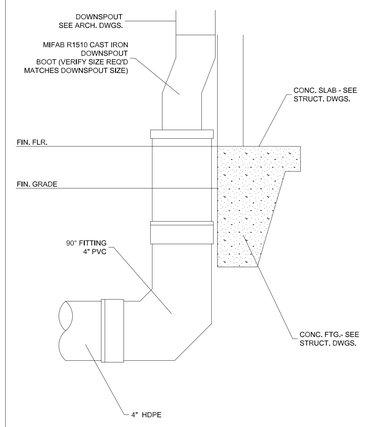
HANDICAP RAMP DETAIL, TYPE "1B"
NOT TO SCALE



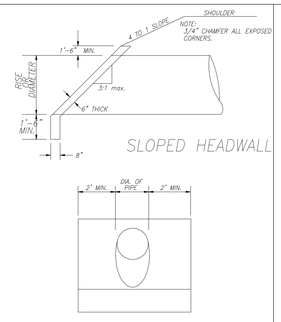
1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A 4 FOOT MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

HANDICAP RAMP DETAIL, TYPE "2"
NOT TO SCALE

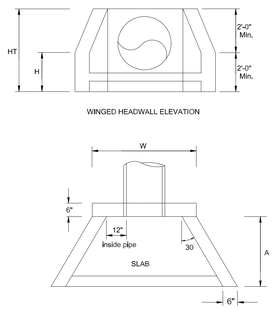
ADA RAMP DETAILS
NOT TO SCALE

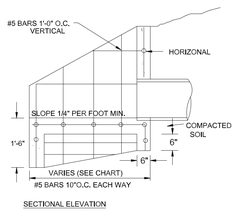


DOWNSPOUT STUB-UP CONNECTION
NOT TO SCALE



SLOPED HEADWALL ELEVATION
NOT TO SCALE



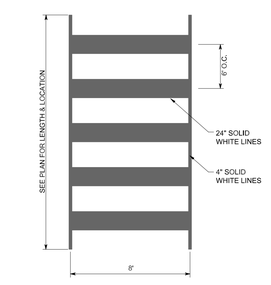


PIPE SIZE CHART

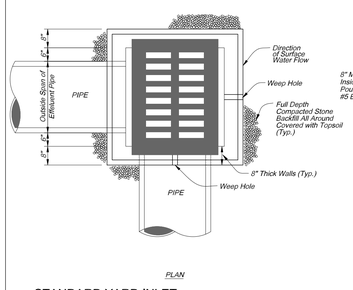
PIPE SIZE	A MIN.	W MIN.	H MIN.	HT MIN.
15"	4'-0"	DIA.+3'-0"	2'-0"	4'-0"
18"	4'-0"	DIA.+3'-0"	2'-0"	4'-0"
24"	4'-0"	DIA.+3'-0"	2'-6"	4'-0"
30"	4'-6"	DIA.+3'-0"	2'-6"	4'-6"
36"	5'-0"	DIA.+3'-0"	3'-0"	5'-0"
42"	5'-0"	DIA.+3'-0"	3'-0"	6'-0"
48"	5'-6"	DIA.+3'-0"	3'-0"	6'-6"
54"	6'-0"	DIA.+3'-0"	3'-6"	7'-0"
60"	6'-6"	DIA.+3'-0"	3'-6"	7'-6"
72"	7'-6"	DIA.+3'-0"	4'-0"	8'-0"

NOTE: HEADWALL HEIGHT MAY VARY FROM THE CHART WITH APPROVAL OR RECEOMMENDATION OF ENGINEER.

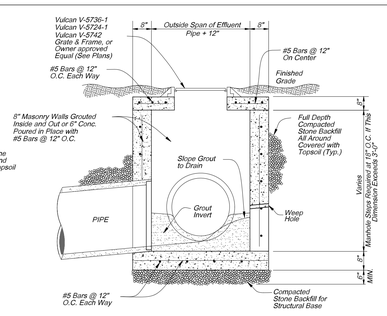
VERTICAL HEADWALL DETAIL
NOT TO SCALE



CROSSWALK DETAIL
NOT TO SCALE



PLAN



TYPICAL SECTION

STANDARD YARD INLET
NOT TO SCALE

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

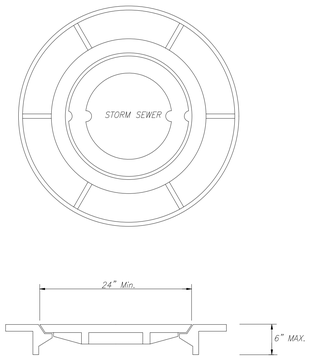
SHEET TITLE :	STANDARD DETAILS
MCKEE JOB # :	23.229
DRAWN BY :	BHD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

MORELL ENGINEERING
PROJECT NO: 23-0192

SHEET NO. : C-7.0

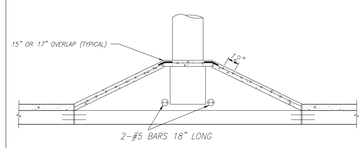
- C:\Users\ben\Dropbox (Morell Engineering)\Morell-Engineering-Server\Projects\2023\23-0192 HATTON HIGH SCHOOL - CIVIL\DWG\23-0192 DESIGN.dwg
- Tuesday, March 05, 2024 14:06:49

CAST IRON RING AND COVER DETAIL

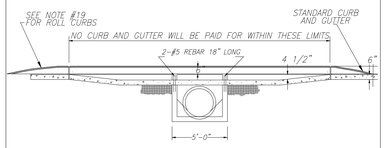


CAST IRON FRAME AND COVER
NON TRAFFIC RATED

DOUBLE WING INLET Δ

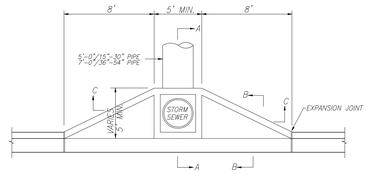


DOUBLE WING INLET SLAB SECTION

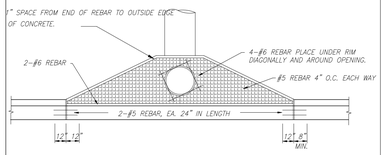


DOUBLE WING INLET ELEVATION

DOUBLE WING INLET Δ

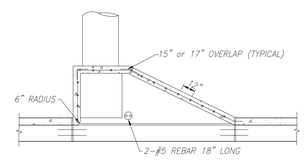


DOUBLE WING INLET PLAN

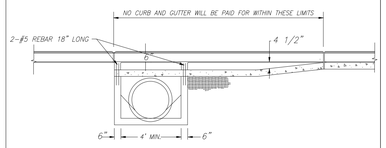


DOUBLE WING INLET TOP SECTION

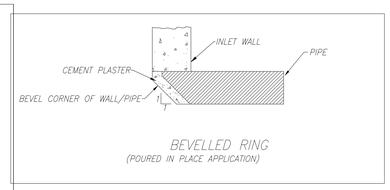
SINGLE WING INLET Δ



SINGLE WING INLET SLAB SECTION



SINGLE WING INLET ELEVATION

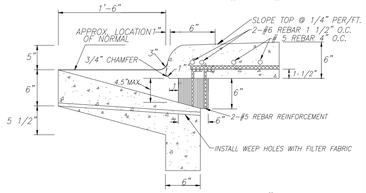


BEVELLED RING
(POURED IN PLACE APPLICATION)

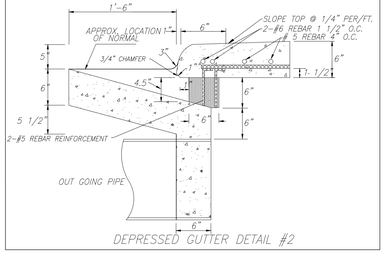
SPECIAL NOTE:

Δ CURB/GUTTER, SIDEWALKS, AND DRAINAGE STRUCTURES SHALL BE CONSTRUCTED FROM 3000 PSI CLASS "C" CONCRETE (ALDOT REF. 521

DEPRESSED GUTTER DETAIL #1 & #2

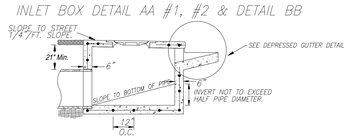


DEPRESSED GUTTER DETAIL #1

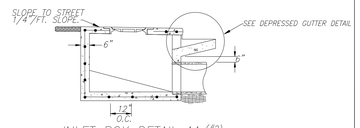


DEPRESSED GUTTER DETAIL #2

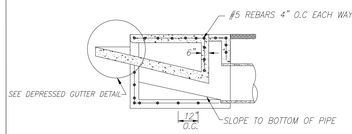
INLET BOX DETAIL AA #1, #2 & DETAIL BB



INLET BOX DETAIL AA (#1)

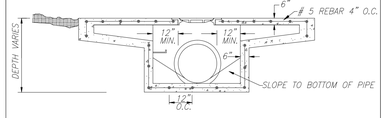


INLET BOX DETAIL AA (#2)

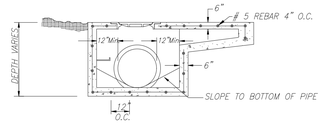


INLET BOX DETAIL BB

DOUBLE WING INLET

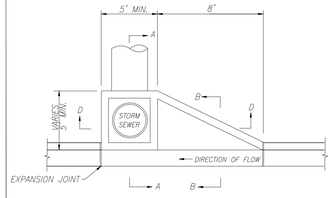


DOUBLE WING INLET DETAIL CC

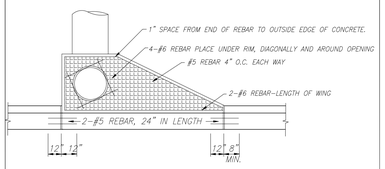


SINGLE WING INLET DETAIL DD

SINGLE WING INLET



SINGLE WING INLET PLAN

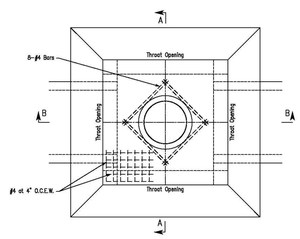


SINGLE WING TOP SECTION

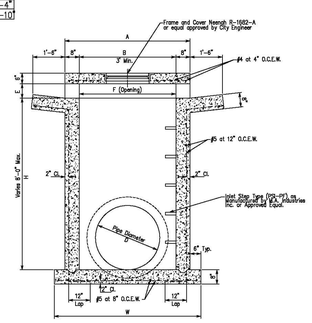
NOTES

1. Dimension "A" is determined by the largest diameter pipe entering the Open Throat Inlet.
2. Steps are required on all inlets when dimension from bottom slab flow line to top of top slab is greater than 4'-0".
3. All concrete shall be class "A" and shall develope a minimum compressive strength of 3500 PSI in 28 days.
4. Reinforcing shall be intermediate grade deformed bars and shall conform to the requirements of the Standard Specifications for billet steel concrete reinforcement bars,ASTM A-15 and deformations conforming to ASTM A-305.
5. When brick construction is used, walls will be 8" brick when "H" is less than 5'-0". Use 12" brick when "H"is more than 5'-0". Float with 1/2" mortar on both sides.
6. Provide concrete apron at throat openings.

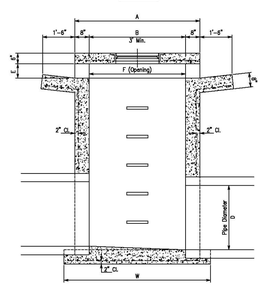
INLET DIMENSIONS					
Pipe Size A	B & F	D	E	W	
12"	4'-4"	3'-0"	12"	8"	5'-4"
15"	4'-4"	3'-0"	15"	8"	5'-4"
18"	4'-4"	3'-0"	18"	8"	5'-4"
21"	4'-6"	3'-2"	21"	8"	5'-6"
24"	4'-9"	3'-5"	24"	8"	5'-9"
30"	5'-4"	4'-0"	30"	8"	6'-4"
36"	5'-10"	4'-6"	36"	8"	6'-10"



PLAN VIEW



SECTION A-A



SECTION B-B

OPEN THROAT INLET DETAILS

NOT TO SCALE

MORELL ENGINEERING
PROJECT NO: 23-0192

ADDITIONS
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MOULTON, ALABAMA

McKEE and ASSOCIATES
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631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

SHEET TITLE :	STANDARD DETAILS
MCKEE JOB # :	23.229
DRAWN BY :	BHD
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REVISED DATE:	

SHEET NO. : C-7.1

- C:\Users\ben\Dropbox (Morell Engineering)\Morell-Engineering-Server\Projects\2023\23-0192 HATTON HIGH SCHOOL - CIVIL\DWG\23-0192 DESIGN.dwg
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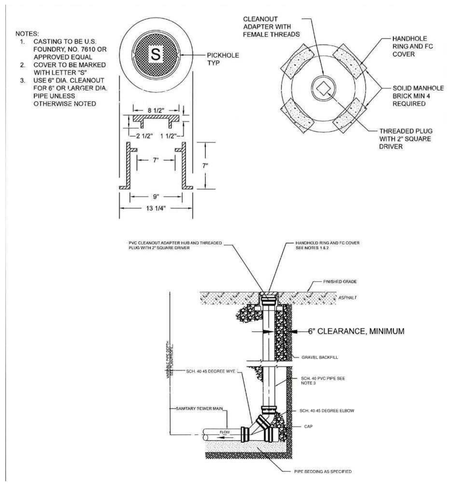
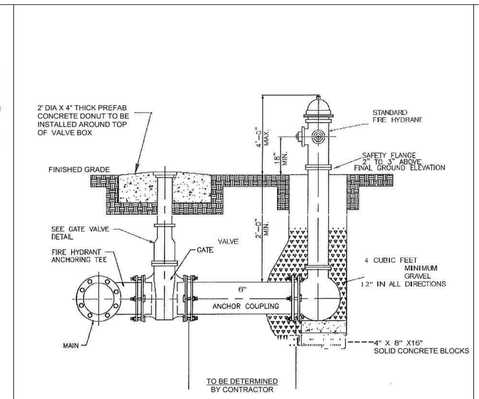


SANITARY SEWER CLEANOUT DETAIL

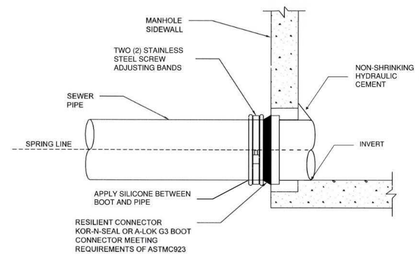
SCALE: NTS



NOTES:
1. ALL HYDRANTS SHALL BE PROVIDED WITH A STORZ PERMANENT HYDRANT ADAPTER WITH BY BY HARRINGTON, INC. OR EQUAL AS APPROVED BY THE CITY

FIRE HYDRANT DETAIL

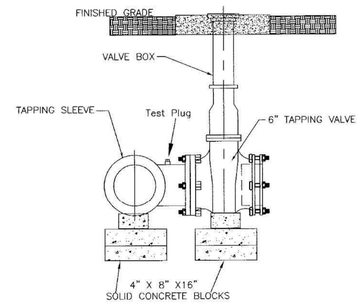
SCALE: NTS



NOTES:
1. PIPES ENTERING/EXITING MANHOLES SHALL BE A MINIMUM OF 6 FT IN LENGTH

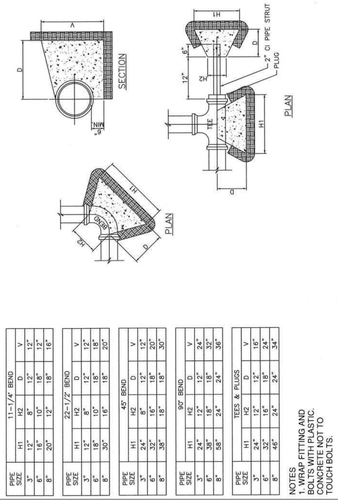
MANHOLE CONNECTION DETAIL

SCALE: NTS



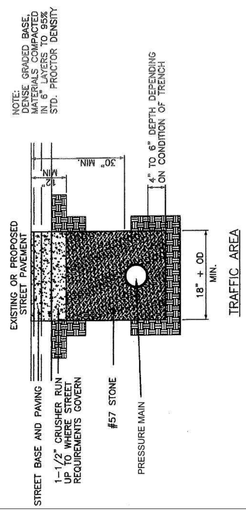
TAPPING SLEEVE AND VALVE DETAIL

SCALE: NTS



CONCRETE THRUST BLOCK DETAIL

SCALE: NTS



WATER & FORCE MAIN TRENCH DETAIL

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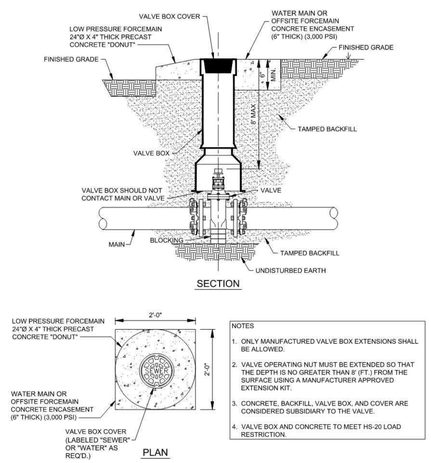
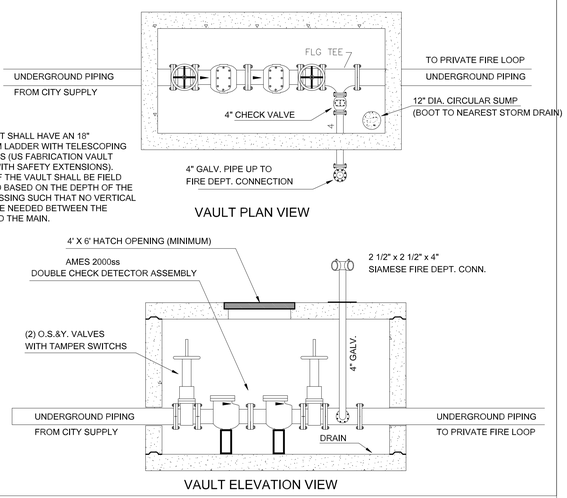


VALVE BOX DETAIL

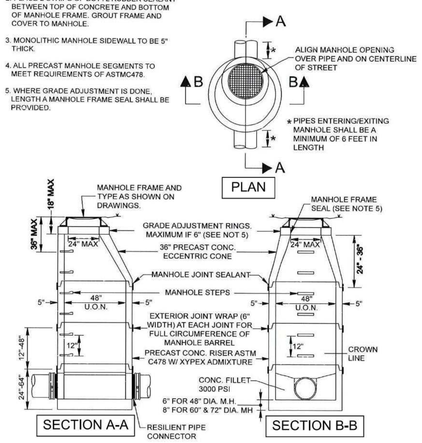
SCALE: NTS



NOTES:
1. FIRE VAULT SHALL HAVE AN 18" ALUMINUM LADDER WITH TELESCOPING GRAB BARS (US FABRICATION VAULT LADDER WITH SAFETY EXTENSIONS).
2. HEIGHT OF THE VAULT SHALL BE FIELD ADJUSTED BASED ON THE DEPTH OF THE MAIN/CROSSING SUCH THAT NO VERTICAL BENDS ARE NEEDED BETWEEN THE VAULT AND THE MAIN.

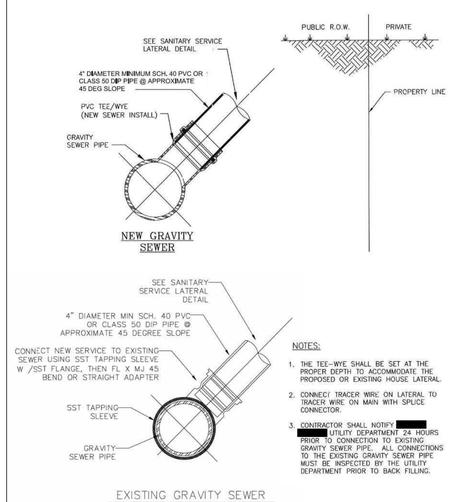
FIRE VAULT DETAIL

SCALE: NTS



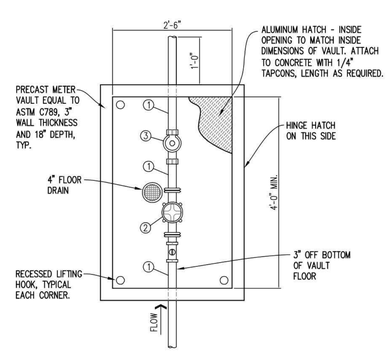
CONCRETE MANHOLE DETAIL

SCALE: NTS



LATERAL CONNECTION DETAIL

SCALE: NTS

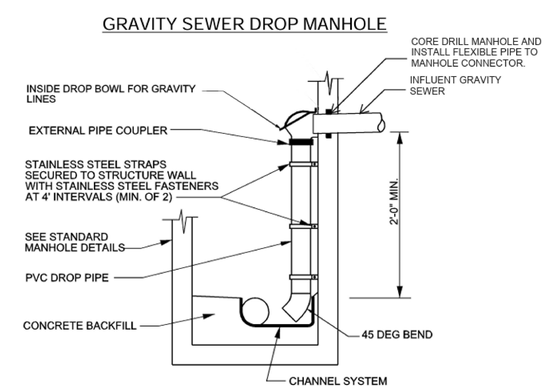


PARTIAL MATERIAL LIST

1. 2" BRASS NIPPLE, LENGTH AS REQ'D.
2. 2"x10" SS MASTER METER OCTAVE WITH OSI MODULE AND 3G ENABLED XTR, FLG
3. BACKFLOW PREVENTER

2" METER VAULT ASSEMBLY

SCALE N.T.S.



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MORELL ENGINEERING
PROJECT NO: 23-0192

SHEET NO. : C-7.2

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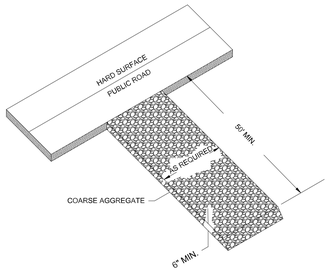
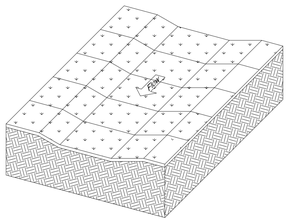


CEP CONSTRUCTION PAD ENTRANCE DETAIL
SCALE: NTS

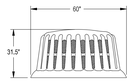


LAY SOD ACROSS THE DIRECTION OF FLOW. USE PEGS OR STAPLES TO FASTEN SOD FIRMLY AT THE CORNERS AND IN THE CENTER.

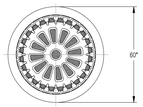
SOD SOD INSTALLATION DETAIL
SCALE: NTS

R100A

SILT · SAVER
EROSION AND SEDIMENT CONTROL PRODUCTS



ELEVATION VIEW

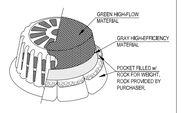


PLAN VIEW

FILTER OPTIONS FOR ASSEMBLIES:
1) R100A-HF (HIGH/LOW FILTER) GREEN HIGH FLOW MATERIAL THROUGHOUT THE TOP OF THE FILTER EXTENDING TO ROOK BAG PLATFORM.
2) R100A-DOT (DOT FILTER) GREEN HIGH FLOW MATERIAL ALLOWS FOR STORM WATER OVERFLOW AT THE TOP OF THE FILTER WHILE THE GRAY HIGH EFFIENCY SEDIMENT FILTRATION FABRIC COVERS THE BOTTOM HALF OF THE FILTER EXTENDING TO THE ROOK BAG PLATFORM. IT IS THE PURCHASERS RESPONSIBILITY TO SELECT APPROPRIATE FILTER.

FILTER INSTALLATION
FILTER SHOULD BE PLACED OVER FRAME, POCKETS ON THE EDGES OF THE FILTER SHOULD BE FILLED WITH ROOK. INSTALLER SHALL PROVIDE ROOK FOR FILTER POCKETS

MAINTENANCE
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT FRAME AND FILTER DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.



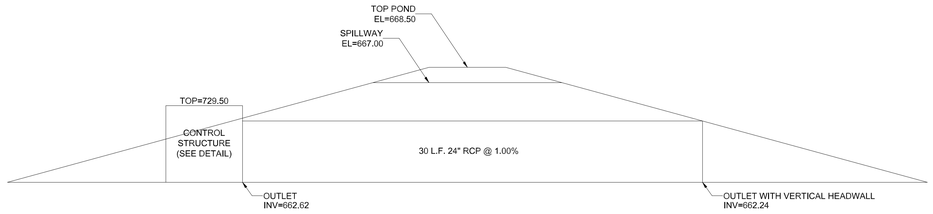
ISOMETRIC ASSEMBLY VIEW
OF R100A-DOT

REPLACEMENT FILTERS: MODEL # R-140HF OR R-140DOT

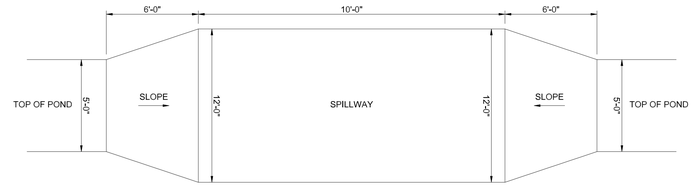
ROUND BASE FRAME & FILTER ASSEMBLY	FRAME MATERIAL: BLACK PE
60" DIAMETER AKA "SS-100A (Round)"	FILTER FABRIC MATERIAL: REFER TO SPEC
Model # R-100A	SCALE: NOT TO SCALE
	LAST UPDATED: MARCH 2021

SILT-SAVER, INC. 1200 FORRESTER CEMETERY RD, COVINGTON, GA 30014 PHONE: (770) 385-7015 FAX: (770) 385-7640 TOLL FREE: 1-888-382-0 SILT (7458) www.siltsaver.com

HIP HDPE INLET PROTECTION DETAIL
SCALE: NTS

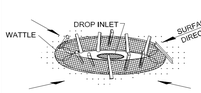


DETENTION POND DRAINAGE ELEVATION VIEW
(N.T.S.)

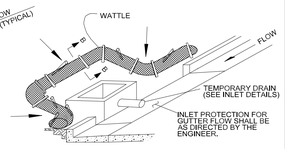


SPILLWAY PLAN VIEW
(N.T.S.)

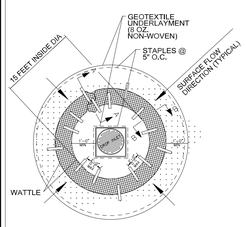
SPILLWAY ELEVATION VIEW
(N.T.S.)



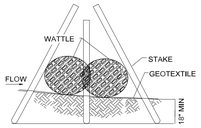
DROP INLET PROTECTION



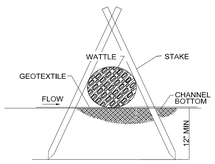
CURB INLET PROTECTION (STAGE 2)
SINGLE OR DOUBLE WING INLET



PLAN VIEW



SECTION A-A

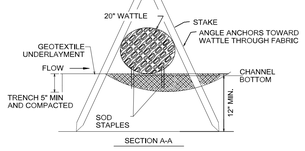


SECTION B-B

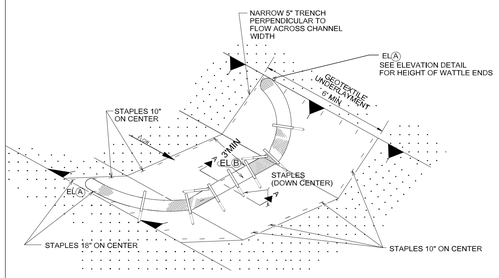
NOTES:
1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (1'MIN, 3'MAX).

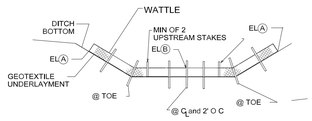
IPW WATTLE INLET PROTECTION DETAIL
SCALE: NTS

POND OUTLET STRUCTURE DETAIL
(N.T.S.)



SECTION A-A



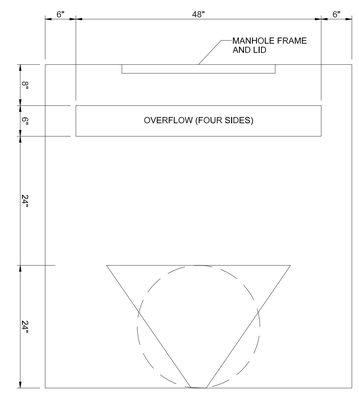


ELEVATION DETAIL

NOTE: END POINTS (A) MUST BE HIGHER THAN FLOWLINE POINT (B)

NOTES:
1. REFER TO ALDOT SPECIAL DRAWING NO. ESC-300 FOR RECOMMENDED INTERVAL BETWEEN WATTLES.
2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
3. SECURE GEOTEXTILE UNDERLAYMENT BY PLACING STAPLES 18 INCHES APART ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. SPACE STAPLES 10 INCHES APART ACROSS THE UPSTREAM AND DOWN STREAM EDGES.
4. PLACE STAPLES ON BOTH SIDES OF WATTLE AT 10 INCH SPACING.

CDW WATTLE CHECK DAM
SCALE: NTS

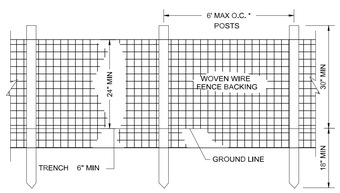


CONTROL STRUCTURE DETAIL
(N.T.S.)

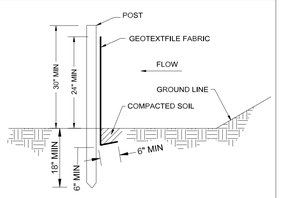
NOTES:
1. SILT FENCE SHALL BE PER THE LATEST ALABAMA EROSION CONTROL HANDBOOK.
2. USE D.O.T. APPROVED WOVEN WIRE FENCE
3. USE 4' MIN. STEEL POSTS (1.3 LB/FT MIN.)
4. THE WOVEN WIRE FENCING SHALL BE FASTENED TO THE UPSTREAM SIDE OF POSTS BY STAPLES OR WIRE TIES.
5. GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO THE WOVEN WIRE FENCING.

MAINTENANCE SCHEDULE:

REMOVE SEDIMENT DEPOSITS WHEN THEY REACH A DEPTH OF 15" OR ½ THE HEIGHT OF THE FENCE AS INSTALLED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. SHOULD THE FABRIC OF SILT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY



FRONT VIEW
(Not to scale)



SIDE VIEW
(Not to scale)

SB SILT FENCE DETAIL
SCALE: NTS

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE :	STANDARD DETAILS
MCKEE JOB # :	23.229
DRAWN BY :	BHD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

MORELL ENGINEERING
PROJECT NO: 23-0192

SHEET NO. : C-7.3

- C:\Users\ben\Dropbox (Morell Engineering)\Morell-Engineering-Server\Projects\2023\23-0192 HATTON HIGH SCHOOL - CIVIL\DWG\23-0192 DESIGN.dwg
- Tuesday, March 05, 2024 14:06:53

EXISTING CONDITIONS AND COORDINATION:
1. PROJECT PLANS HAVE BEEN DEVELOPED FROM A VISUAL EXAMINATION (WHERE APPLICABLE) OF THE EXISTING BUILDING AND/OR PROJECT PLANS PROVIDED BY THE ARCHITECT OR PROJECT MANAGER. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS RELATED TO EXISTING CONSTRUCTION AND CONDITIONS AND MAKE MINOR ADJUSTMENTS AS REQUIRED. REPORT SIGNIFICANT DIFFERENCES TO ARCHITECT/ENGINEER.
2. SEE ARCHITECTURAL PLANS FOR ALL DIMENSIONS NOT SHOWN.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PROJECT DRAWINGS AND SPECIFICATIONS INCLUDING THESE STRUCTURAL DRAWINGS.
4. APPLICABLE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO PRODUCTION.
5. FINISH FLOOR ELEVATION IS TO TOP OF PLYWOOD DECKING OR TOP OF SLAB AS APPLICABLE U.N.O.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / SEOR OF ANY POTENTIAL OR DISCOVERED CONFLICTS, OMISSIONS OR DISCREPANCIES IN THE CONTRACT DRAWINGS OF OR RELATED TO THE STRUCTURAL DESIGN OF THE BUILDING PRIOR TO PROCEEDING.
7. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR PROVIDING DESIGN OR COORDINATING OTHER ENGINEERING DISCIPLINES, ARCHITECTURAL DETAILING, ADA COMPLIANCE, OR ANY OTHER NON-STRUCTURAL CODES OR STANDARDS. EVERY EFFORT HAS BEEN MADE TO ACCOMMODATE AND COORDINATE THESE ITEMS, BUT FINAL COORDINATION AND COMPLIANCE IS THE RESPONSIBILITY OF THE ARCHITECT, PROJECT MANAGER, OR OWNER AS IS APPLICABLE FOR THE PROJECT.

STATEMENT OF SPECIAL INSPECTIONS
1. THE SEOR IS NOT RESPONSIBLE FOR PERFORMING THE SPECIAL INSPECTIONS ON THIS PROJECT. A QUALIFIED INSPECTOR SHALL BE REQUIRED IN ACCORDANCE WITH IBC 1704.2.1.
2. THE MATERIAL, SYSTEMS, COMPONENTS, AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS OR TESTS ARE INDICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS.
3. THE TYPE OF EACH SPECIAL INSPECTION OR TEST IS NOTED IN THE SPECIAL INSPECTION SCHEDULE.
4. ANY ADDITIONAL STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH IBC 1704.6 ARE NOTED ON THESE DRAWINGS.
5. THE FREQUENCY OF THE SPECIAL INSPECTION (PERIODIC / CONTINUOUS) IS NOTED WITH THE SPECIAL INSPECTION SCHEDULE.

GEOTECHNICAL INFORMATION
1. A GEOTECHNICAL SUB-SURFACE INVESTIGATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. FOUNDATION DESIGN IS BASED ON SUSPECTED SUB-SURFACE CONDITIONS TYPICAL FOR THE AREA. FOOTINGS ARE SIZED FOR A SOIL BEARING VALUE AS NOTED BELOW.
2. THE FOUNDATION SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING STUDY BY XYZ DATED XXXXX XX, 2018 (XYZ JOB NO. XXXXXXX). FOR THE PURPOSE OF THESE STRUCTURAL DRAWINGS, SELECT INFORMATION HAS BEEN EXTRACTED FROM THE REFERENCED GEOTECHNICAL REPORT AND NOTED BELOW; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, READ, AND FOLLOW ALL RECOMMENDATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT.
3. THE CONTRACTOR SHALL VERIFY THE CAPABILITY OF THE SOIL STRATA TO SUPPORT FOUNDATIONS PRIOR TO CASTING THE FOUNDATION.
4. THE FOUNDATION SHALL EXTEND TO A MINIMUM OF THE FROST PENETRATION DEPTH, TO A DEPTH WHERE SOIL MOISTURE CONTENT DOES NOT FLUCTUATE, A MINIMUM DEPTH OF 24" INTO ORIGINAL SOIL OR A MINIMUM DEPTH TO ACHIEVE THE BELOW NOTED BEARING CAPACITY (WHICHEVER IS GREATER).
5. NOTIFY THE ENGINEER SHOULD ANY UNUSUAL SOIL CONDITIONS BE ENCOUNTERED.

FOUNDATIONS:
1. THE "CONTROLLED AREA" SHALL EXTEND BENEATH AND 5 FEET BEYOND THE BUILDING AREA. THE "CONTROLLED AREA" SHALL BE COMPLETELY STRIPPED AND ALL SURFACE VEGETATION, ORGANIC FILL OR TOPSOIL, DEBRIS AND ANY OTHER
2. THE SUBGRADE ELEVATIONS SHALL BE ESTABLISHED BY CONSTRUCTION OF AN ENGINEERED FILL USING SUITABLE FILL EARTH AND PLACED IN LIFTS NOT TO EXCEED 8". THE SUBGRADE SHALL BE DENSIFIED TO 98% (MIN.) STANDARD DENSITY (ASTM D-698A). VERIFYING IN-PLACE DENSITY TESTS ARE REQUIRED.
3. THE CONTRACTOR SHALL DE-WATER THE AREA OF THE BUILDING FOOTPRINT AS REQUIRED TO PREVENT PONDING OF WATER IN THE FOOTING TRENCHES AND SLAB AREAS DURING EXCAVATION AND PRIOR TO CASTING FOOTINGS.
4. ASSUMED BEARING CAPACITY AS LISTED BELOW SHALL BE VERIFIED PRIOR TO CASTING FOOTINGS.
5. FOUNDATION DESIGN PARAMETERS:
   5.1. ALLOWABLE BEARING CAPACITY CONTINUOUS SPREAD FOOTING -------------------------------- 2000 PSF
   5.2. ALLOWABLE BEARING CAPACITY ISOLATED SPREAD FOOTING ------------------------------------ 2000 PSF
   5.3. MINIMUM PERIMETER FOOTING BEARING DEPTH BELOW OUTSIDE FINISH GRADE --------- 24"
   5.4. MINIMUM INTERIOR FOOTING BEARING DEPTH BELOW FINISH FLOOR ELEVATION --------- 12"

CONCRETE:
1. CONCRETE SHALL CONFORM TO THE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 318).
2. CONCRETE SHALL HAVE THE FOLLOWING COMPRESSIVE STRENGTH (f'c) AT 28 DAYS BASED UPON ITS USE:
   2.1. FOOTINGS -- 3000 PSI (MIN.)
   2.2. SLAB ON GRADE -- 3000 PSI (MIN.)
   2.3. COLUMNS, BEAMS -- 4000 PSI (MIN.)
   2.4. ELEVATED SLABS -- 4000 PSI (MIN.)
   2.5. RETAINING WALLS -- 4000 PSI (MIN.)
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60.
4. WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A1064.
5. SLABS ON GRADE SHALL BE REINFORCED AS INDICATED ON PLANS W.W.F. PLACED AT 1/3 SLAB THICKNESS FROM TOP.
6. CAST IN PLACE ANCHOR RODS SHALL CONFORM TO ASTM F 1554 GR. 36.
7. MINIMUM CONCRETE COVER, (UNLESS OTHERWISE NOTED ON DRAWINGS) FOR REINFORCING SHALL BE:
   7.1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH --------- 3 IN.
   7.2. EXPOSED TO EARTH OR WEATHER -- 2 IN.
   7.3. BEAMS AND COLUMNS -- 1½ IN.
8. LAP ALL CONTINUOUS REINFORCEMENT WITH A CLASS B LAP SPLICE AS SPECIFIED IN LAP SPLICE SCHEDULE.
9. AT EXTERIOR BUILDING CORNERS FOOTINGS, PROVIDE 3'-0" X 3'-0" CORNER BARS, SAME SIZE AND NUMBER AS DETAILED HORIZONTAL BARS.
10. DOWEL ALL FOOTINGS WHERE THEY ABUT WITH SAME REINFORCEMENT AS DETAILED HORIZONTALLY AND WITH 2'-0" MINIMUM LAP.
11. CAST IN PLACE CONCRETE WALLS ARE UNSTABLE AND REQUIRE TEMPORARY CONSTRUCTION BRACING UNTIL INSTALLATION OF PERMANENT CONNECTION . TEMPORARY CONSTRUCTION BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR
12. SUBMITTALS
13. CONCRETE MIX DESIGNS
   13.1. SUBMITTALS SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 318 (LATEST EDITIONS) PRIOR TO COMMENCEMENT OF CONCRETE WORK.
   13.2. SUBMITTAL SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO SCHEDULING CONCRETE DELIVERY TO JOB SITE.
14. REINFORCEMENT SUBMITTALS
   14.1. SUBMITTALS SHALL BE IN ACCORDANCE WITH ACI 315 (LATEST EDITION) AND SHOW, AT MINIMUM, ALL SIZES, DIMENSIONS, LOCATIONS OF ALL REINFORCEMENT AND EMBEDMENTS.
   14.2. SUBMITTAL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO FABRICATING REINFORCEMENT.

MASONRY:
1. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOADBEARING CONFORMING TO ASTM C 90 ALL LOCATIONS.
2. MORTAR SHALL BE BE PROPORTIONED IN ACCORDANCE WITH ASTM C270.
3. GROUT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C476.
4. TYPE M OR S FOR BELOW GROUND LEVEL AND EITHER TYPE N OR S FOR ABOVE GROUND CONFORMING TO ASTM C-270.
   4.3. MINIMUM INDIVIDUAL NET AREA COMPRESSIVE STRENGTH OF SINGLE CMU------------------------ 2000 PSI
   4.4. MINIMUM DESIGN STRENGTH OF MASONRY (f'_m)------------------------ 2000 PSI
   4.5. GROUT COMPRESSIVE STRENGTH ------------------------ 3000 PSI
5. HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE FABRICATED WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CROSSRODS SPACED NOT MORE THAN 16" O.C. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF SINGLE AND MULTIPLE WIDTH UNIT WALLS.
6. FILLED CELLS INDICATED ON PLAN SHALL BE FILLED WITH GROUT IN LIFTS OF 48" (MAX). TERMINATE LIFT 1-1/2" BELOW BED JOINT TO CREATE SHEAR KEY TO NEXT LIFT.
7. STARTER DOWELS AND EACH ADDITIONAL VERTICAL BAR SHALL BE TIED IN ACCORDANCE WITH TMS SPECIFICATIONS AND LAPPED PER CMU LAP SCHEDULE.
8. "WET SETTING" DOWELS SHALL NOT BE ALLOWED.
9. MASONRY WALLS ARE UNSTABLE AND REQUIRE TEMPORARY CONSTRUCTION BRACING UNTIL INSTALLATION OF PERMANENT CONNECTION. TEMPORARY CONSTRUCTION BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. MASONRY CONTROL JOINTS (M.C.J.) SHALL BE REQUIRED WITH SPACING SHOWN ON ARCHITECTURAL PLAN, MAXIMUM SPACING OF 25' OR 3 TIMES WALL HEIGHT ALONG WALL LENGTH AND 12'-0" MAX FROM WALL CORNERS. CONSTRUCT AS SHOWN ON MASONRY CONTROL JOINT DETAIL ON STRUCTURAL DRAWINGS.

STRUCTURAL STEEL
1. STRUCTURAL W-SECTION SHAPES SHALL CONFORM TO ASTM A992.
2. STRUCTURAL RECTANGULAR HSS SHALL CONFORM TO ASTM A500 GR. C.
3. STRUCTURAL ROUND HSS SHALL CONFORM TO ASTM A500 GR. C.
4. STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL CONFORM TO ASTM A36.
5. STRUCTURAL BOLTS SHALL BE ASTM A-325X WITH NUTS AND WASHERS.
6. DETAIL, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST AISC STANDARDS AND SPECIFICATIONS.
7. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION)
8. ELECTRODES SHALL BE E70XX.
9. UNLESS OTHERWISE NOTED OR DETAILED, ALL SHEAR CONNECTIONS SHALL BE DESIGNED USING THE APPROPRIATE DATA FROM PART 10 -"DESIGN OF SIMPLE SHEAR CONNECTIONS" FROM THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION. DESIGN END REACTION IS 60% OF TOTAL ALLOWABLE LOAD (60% x Wc) FROM THE ALLOWABLE LOAD OF BEAM TABLE FROM PART 9 - "DESIGN OF CONNECTING ELEMENTS" OF THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.

TIMBER FRAMING
1. WOOD FRAMING MEMBERS SHALL BE MINIMUM NO.2 SOUTHERN YELLOW PINE OR EQUIVALENT.
   1.1. Fb = 1200 PSI
   1.2. E = 1,500,000 PSI
2. LAMINATED VENEER LUMBER (MICROLLAM) SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES:
   2.1. Fb = 2600 PSI
   2.2. E = 1,900,000 PSI
3. ALL TIMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE A PRESSURE TREATED (P.T.) MEMBER.
4. WHERE TWO-PLY OR MORE ARE INDICATED TO BE USED TOGETHER, THEY SHALL BE FASTENED BY WOOD GLUING AND NAILING 3 ROWS OF 16d NAILS @ 12" O.C. EACH SIDE FOR THE ENTIRE LENGTH OF THE MEMBER.
5. UNLESS OTHERWISE NOTED, ALL MEMBER CONNECTIONS SHALL HAVE STANDARD GALVANIZED METAL FRAMING ANCHORS OR CLIPS CONNECTING MEMBERS CARRYING ANY COMBINATION OF DEAD, LIVE, AND WIND LOADS

DELEGATED STEEL STAIR AND HANDRAIL DESIGN
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DESIGN OF THE PRE-FABRICATED STAIRS, LANDINGS, TREADS, AND HANDRAILS WITH AN APPROVED STEEL FABRICATOR. THE FABRICATOR SHALL DESIGN AND DETAIL ALL RELEVANT MEMBERS AND CONNECTIONS .
2. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND DRAWING CALCULATIONS PRIOR TO FABRICATION. THE CALCULATIONS SHALL BEAR THE SEAL OF REGISTERED PROFESSIONAL ENGINEER OF THE STATE OF PROJECT.

SHEATHING
1. ROOF SHEATHING SHALL BE 5/8" NOMINAL THICK APA RATED SHEATHING WITH A MINIMUM SPAN RATING OF 32/16. ATTACHMENT SHALL BE PER MINIMUM APA STANDARDS FOR THE GIVEN EXPOSURE AND WIND SPEED OR AS INDICATED IN THESE DRAWINGS, WHICHEVER IS MORE STRINGENT.
2. WALL SHEATHING SHALL BE 15/32" INCH WOOD STRUCTURAL PANELS. ATTACHMENT SHALL BE PER MINIMUM APA STANDARDS FOR THE GIVEN EXPOSURE AND WIND SPEED OR AS INDICATED IN THESE DRAWINGS, WHICHEVER IS MORE STRINGENT. NOTE NAILING PATTERNS AT SHEAR WALLS. THE STRUCTURAL SHEATHING SHALL BE FOR THE FULL WALL HEIGHT, AND WHERE OPENINGS OCCUR, THE WALL SHALL BE ENTIRELY SHEATHED INCLUDING AREAS ABOVE AND BELOW THE OPENINGS. FOR TWO OR MORE STORIES, SHEATHING SHALL BE CONTINUOUS FOR 1'-0" ABOVE AN BELOW THE FLOOR PLATE.
3. FLOOR SHEATHING SHALL BE 3/4" NOMINAL THICK APA RATED SHEATHING WITH A MINIMUM SPAN RATING OF 48/24. ATTACHMENT SHALL BE PER MINIMUM APA STANDARDS OR AS INDICATED IN THE DRAWINGS ,WHICHEVER IS MORE STRINGENT. WHERE PROJECT SPECIFICATIONS OR JOIST MANUFACTURER DIRECT, AN FLOOR SHEATHING TO JOIST ADHESIVE SHALL BE USED.

COLD-FORM METAL FRAMING
1. CFMF SHALL BE DESIGNED ACCORDING TO THE AMERICAN IRON AND STEEL INSTITUTE (AISI) S100 (LATEST EDITION).
2. ALL STRUCTURAL LOADBEARING MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH Fy = 40 KSI FOR S STUDS GRADE A, 33 KSI FOR T TRACK. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED MEETING REQUIREMENTS FOR ASTM A525.
3. MEMBERS SHALL BE INSTALLED LEVEL AND TRUE IN A WORKMANLIKE MANNER. INSTALL STRAPPING AND ACCESSORIES AS DETAILED AND AS REQUIRED FOR PROPER INSTALLATION.
4. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE MANUFACTURER SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS.

PRE-ENGINEERED WOOD ROOF TRUSSES
1. ALL PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND SPECIFICATIONS TO SUPPORT ALL LIVE LOADS, DEAD LOADS, AND CONCENTRATED LOADS. LATERAL BRACING (DIAGONAL AND LATERAL BRIDGING), BOTH TEMPORARY AND PERMANENT, SHALL BE DESIGNED, PROVIDED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER.TEMPORARY BRACING SHALL REMAIN UNTIL PERMANENT BRACING AND THE ROOF DECK ARE COMPLETELY INSTALLED.
2. PROVIDE EAVE BRACING DETAILS, ETC. AS REQUIRED TO INSURE PLUMB, LEVEL STRUCTURAL BASE FOR EAVE TRIM AND CORNICE. NO TWISTING OR WARPING OF TRUSS ENDS WILL BE ACCEPTED PRIOR TO INSTALLATION OF CORNICE AND TRIM.
3. ALL TRUSSES SHALL BE DESIGNED AND ANCHORED TO WITHSTAND THE NOTED WIND LOADS. THE ROOF TRUSSES SHALL BE DESIGNED AND ANCHORED FOR THE FOLLOWING LOADS:
   3.1. TOP CHORD LIVE LOAD ------------------------------- 20 PSF
   3.2. TOP CHORD DEAD LOAD ---------------------------- 10 PSF
   3.3. BOTTOM CHORD LIVE LOAD ------------------------ 0 (EXCEPT WHERE SO INDICATED ON PLANS)
   3.4. BOTTOM CHORD DEAD LOAD ---------------------- 10 PSF
   3.5. MECHANICAL AREA ----------------------------------- 100 PSF (WHERE NOTED ON PLANS)
4. VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY ARCHITECT/ENGINEER OF ANY REQUIRED MODIFICATIONS.
5. SUBMIT DESIGN DRAWINGS AND CALCULATIONS BEARING THE REGISTERED PROFESSIONAL ENGINEER'S SEAL OF THE DESIGN ENGINEER.

PRE-ENGINEERED METAL BUILDING (PEMB)
1. PRE-ENGINEERED METAL BUILDING FOOTING SIZES ARE BASED UPON ESTIMATED BASE PLATE REACTIONS. FOOTING SIZED MAY REQUIRE SMALL CHANGES ONCE THE FINAL METAL BUILDING BASE PLATE REACTIONS ARE PROVIDED. CONTRACTOR SHALL NOT FABRICATE REBAR OR CAST METAL BUILDING FOOTINGS UNTIL THE STRUCTURAL ENGINEER OF RECORD HAS APPROVED THE PRE-ENGINEERED METAL BUILDING BASE PLATE REACTIONS.
2. ANCHOR ROD DIAMETERS SHALL BE DESIGNED BY THE PRE-ENGINEERED METAL BUILDING DESIGNER. THE LENGTH OF THE HEADED ANCHOR RODS WILL BE SPECIFIED BY THE STRUCTURAL ENGINEER OF RECORD ONCE THE FINAL BASE PLATE REACTIONS ARE PROVIDED TO THE ENGINEER.
3. PRE-ENGINEERED METAL BUILDING BASE PLATES ARE SHOWN ON THE STRUCTURAL FOUNDATION DRAWINGS FOR SCHEMATIC PURPOSES ONLY AND ARE NOT INTENDED FOR FIELD LAYOUT OF THE METAL BUILDING ANCHOR RODS. METAL BUILDING ANCHOR RODS SHALL BE LOCATED BASED UPON DRAWINGS PROVIDED BY THE METAL BUILDING MANUFACTURER ONLY.
4. THE PEMB SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE RECOMMENDED DESIGN PRACTICES MANUAL OF THE METAL BUILDING MANUFACTURER'S ASSOCIATION (MBMA) AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE PRE-ENGINEERED METAL BUILDING SUPPLIER SHALL BE A MEMBER OF AISC-MB CLASS.
5. THE PEMB SUPPLIER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING ENVELOPE AND FOR ALL LATERAL BRACING FOR ALL COMBINATIONS OF LIVE, DEAD COLLATERAL AND WIND LOADS.
6. THE MINIMUM LIVE LOADS, COLLATERAL LOADS AND WIND LOADS TO BE USED IN DESIGN OF THE PEMB ARE LISTED BELOW.
7. THE PEMB SUPPLIER SHALL DESIGN THE METAL BUILDING COLUMNS FOR WIND BEAM REACTIONS NOTED ON THE PLANS. TYPICAL CONNECTION DETAIL IS WITHIN THESE DRAWINGS, BUT FINAL COORDINATION SHALL MADE ON THE SHOP DRAWINGS PRIOR TO FABRICATION.
8. THE PEMB SUPPLIER SHALL DESIGN BUILDING FOR ALL SPECIFICALLY IDENTIFIED COMPONENTS THAT ARE TO BE SUPPORTED BY THE PEMB. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL HVAC EQUIPMENT, PLUMBING COMPONENTS, ELECTRICAL EQUIPMENT, AUDIO/VISUAL EQUIPMENT, AND BASKETBALL GOALS.
9. SUBMIT SHOP DRAWINGS OF FRAMING PLANS AND DETAILS OF ALL COMPONENTS OF THE PEMB. THE SHOP DRAWINGS SHALL INDICATE THE COLUMN REACTIONS FOR ALL COMBINATIONS OF DEAD, LIVE, COLLATERAL AND WIND LOADS. SUBMIT DESIGN DRAWINGS AND CALCULATIONS BEARING THE REGISTERED PROFESSIONAL ENGINEER'S SEAL FROM THE STATE OF ALABAMA OF THE DESIGN ENGINEER.
10. ANCHOR RODS SHALL CONFORM TO ASTM A1557 GRADE 36.
11. DESIGN LOADS:
12. ROOF LIVE LOAD
   12.1. MEMBERS SUPPORTING 0-200 SQ. FT. ---------------------------- 20 PSF
   12.2. MEMBERS SUPPORTING 200-600 SQ. FT. ---------------------- 16 PSF
   12.3. MEMBERS SUPPORTING MORE THAN 600 SQ. FT. ----------- 12 PSF
   12.4. COLLATERAL METAL BUILDING ROOF LOAD ----------------- 8 PSF
13. DEFLECTION LIMIT -- H/240

DESIGN LOADS AND PARAMETERS:

1. LIVE LOADS:
   1.1. ROOF -- 20 PSF (REDUCIBLE)
   1.2. CLASSROOMS -- 40 PSF
   1.3. OFFICE -- 50 PSF
   1.4. GYMNASIUM -- 150 PSF
   1.5. LOBBIES -- 100 PSF
   1.6. FIRST FLOOR CORRIDOR -- 100 PSF

2. DEAD LOADS
   2.1. ROOF-- 10 PSF
   2.2. ATTIC/CEILING -- 10 PSF

3. SNOW LOAD -- 10 PSF

4. WIND PARAMETERS:
   4.1. DESIGN CODE -- ASCE 7-16
   4.2. DESIGN WIND SPEED (ULT. 3 SEC GUST) -------------------------- 111 MPH
   4.3. OCCUPANCY CATEGORY -- III
   4.4. WIND EXPOSURE CATEGORY -- B
   4.5. INTERNAL PRESSURE COEFFICIENTS ------------------------------ +/- 0.18

5. SEISMIC PARAMETERS:
   5.1. SEISMIC USE GROUP -- III
   5.2. SEISMIC IMPORTANCE FACTOR (Ie)--------------------------------1.25
   5.4. SITE CLASS-- D (ASSUMED)
   5.8. SEISMIC DESIGN CATEGORY -- D
   5.9. MAPPED SPECTRAL RESPONSE ACCELERATION:
      5.9.1. Ss -- 0.275
   5.10. S1 -- 0.124
   5.11. SPECTRAL RESPONSE COEFFICIENTS:
      5.11.1. Sds -- 0.289
      5.11.2. Sd1 -- 0.194

APPLICABLE CODES
UNLESS OTHERWISE NOTED OR SPECIFIED, ALL CONSTRUCTION SHALL CONFIRM TO THE FOLLOWING CODES (LATEST EDITION UNLESS NOTED OTHERWISE):

IBC 2021	INTERNATIONAL BUILDING CODE
ASCE 7-16	MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
ACI 318	AMERICAN CONCRETE INSTITUTE
AISC 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI S100	NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AISI S202	CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL MEMBERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS (AS SPECIFIED IN CODES)
AWS D1.1	AMERICAN WELDING SOCIETY
SDPWS	SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC
AWC NDS	NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION
TMS 402	BUILDING CODE FOR MASONRY STRUCTURES
TMS 602	SPECIFICATION FOR MASONRY STRUCTURES
TPI 1	NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION
WRI/CRSI	DESIGN OF SLAB-ON-GROUND FOUNDATIONS - WITH 1996 UPDATE
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION STANDARDS

BASE PLATE & ANCHOR BOLT SCHEDULE

MARK	COLUMN SIZE	SIZE	ANCHOR RODS
BP-1	HSS 4x4	¾"x10"x0'-10"	(4) - ¾"Ø (9" EMBED)
BP-2	W8	1"x1'-2"x1'-2"	(4) - 1"Ø (12" EMBED)
BP-3	HSS 5X5 STUB	¾" X 1'-0" X BEAM WIDTH	(4)- ¾"Ø THRU-BOLTS W/ WASHERS AND NUTS
BP-4	HSS 4x4	¾"x10"x0'-10"	(4) - ¾"Ø (9" EMBED)

STANDARD ABBREVIATIONS

ABBREVIATION	DEFINITION
SW-#	SHEAR WALL-#
BP-#	BASE PLATE-#
SF-#	SPREAD FOOTING-#
C-#	COLUMN-#
WB-#	WOOD BEAM-#
SB-#	STEEL BEAM-#
T-#	TRUSS-#
BL-#	BRICK LINTEL-#
#L-#	CMU WALL WIDTH + LINTEL#
H-#	HEADER-#
S#	STUD PACKAGE-# OF STUDS
CB-#	CONCRETE BEAM-#
CC-#	CONCRETE COLUMN-#
T.O.S.	TOP OF STEEL
T.O.F.	TOP OF FOOTING
T.O.W.	TOP OF WALL
F.F.E.	FINISH FLOOR ELEVATION OF STRUCTURE (T/ PLYWOOD OR TOP OF CONCRETE)
W.W.F.	WELDED WIRE FABRIC
C.J.	SAW CUT CONTROL JOINT
SEOR	STRUCTURAL ENGINEER OF RECORD
PEMB	PRE-ENGINEERED METAL BUILDING
W-#	WALL-#
U.N.O.	UNLESS NOTED OTHERWISE
TYP.	CONDITION TYPICAL THROUGHOUT PLAN, SECTION, OR DETAIL
SIM.	CONDITION SIMILAR TO INDICATED CONDITION W/ ONLY MINOR VARIATION
OPP. HAND	CONDITION IS A MIRROR IMAGE OF CONDITION SHOWN IN SECTION/DETAIL

CMU WALL REINFORCEMENT SCHEDULE

MARK	LOCATION	SIZE	MAX HT.	VERT. REINF.
W-1 - CLASSROOM FDN.	FOUNDATION WALL	8" CMU	7'-4"***	#5 @ 16" O.C.
W-2 - CLASSROOM	INTERIOR LOAD BEARING	8" CMU	10'-8"*	#5 @ 48" O.C.
W-3 - CLASSROOM	EXTERIOR LOAD BEARING	8" CMU	12'-8"*	#5 @ 48" O.C.
W-4 - GYM	EXTERIOR	8" CMU	14'-0"*	#5 @ 32" O.C.
W-5	INTERIOR NON LOAD BEARING	8" CMU	10'-8"*	#4 @ 48" O.C.

WALL SCHEDULE NOTES:
* WALL HEIGHT MEASURED FROM FINISH FLOOR TO TOP OF BOND BEAM
** WALL HEIGHT MEASURED FROM OUTSIDE FINISH GRADE TO TOP OF WALL/SLAB
***WALL HEIGHT MEASURED FROM T/ OF FOOTING TO FFE

1. WHERE WALLS OCCUR AND ARE NOT CALLED OUT ON THE PLAN, USE APPLICABLE SCHEDULE REINFORCEMENT. NOTIFY STRUCTURAL ENGINEER IF CONDITIONS EXIST THAT ARE OUTSIDE THE PARAMETERS OF THE SCHEDULE.
2. PROVIDE FOUNDATION STARTER DOWEL SAME SIZE AS VERTICAL BAR @ EA. VERTICAL BAR. LAP AS INDICATED IN SCHEDULE
3. PROVIDE CORNER REINFORCEMENT AS INDICATED IN TYPICAL CMU DETAILS.
4. PROVIDE VERTICAL BAR AT EA. DOOR AND WINDOW JAMB AS INDICATED IN TYPICAL CMU DETAILS.
5. PROVIDE VERTICAL BAR EA. SIDE OF MASONRY CONTROL JOINT (MCJ) AS INDICATED IN TYPICAL CMU DETAILS.

8" CMU REINFORCEMENT LAP SPLICE SCHEDULE

MASONRY STRENGTH (f'm) (PSI)	BAR SIZE (#)	DEVELOPMENT/ LAP LENGTH (FT.-IN.)	NOTES
2500	3	1'-6"	REINFORCEMENT TO BE CENTERED IN CELL UNLESS OTHERWISE NOTED
	4	2'-0"	
	5	2'-6"	
	6	3'-4"	

12" CMU REINFORCEMENT LAP SPLICE SCHEDULE

MASONRY STRENGTH (f'm) (PSI)	BAR SIZE (#)	DEVELOPMENT/ LAP LENGTH (FT.-IN.)	NOTES
2500	3	1'-6"	REINFORCEMENT TO BE CENTERED IN CELL UNLESS OTHERWISE NOTED
	4	2'-0"	
	5	2'-6"	
	6	3'-0"	
	7	3'-6"	

SPREAD FOOTING SCHEDULE

MARK	SIZE	REINF. EA. WAY
SF-2	2'-0"x2'-0"x1'-0"	3-#4
SF-2.5	2'-6"x2'-6"x1'-0"	3-#5
SF-3	3'-0"x3'-0"x1'-0"	3-#5
SF-3.5	3'-6"x3'-6"x1'-0"	4-#5
SF-4	4'-0"x4'-0"x1'-0"	4-#5
SF-4.5	4'-6"x4'-6"x1'-2"	5-#6
SF-5	5'-0"x5'-0"x1'-2"	5-#6
SF-5.5	5'-6"x5'-6"x1'-2"	6-#6
SF-6	6'-0"x6'-0"x1'-2"	6-#6
SF-6.5	6'-6"x6'-6"x1'-4"	7-#6
SF-7	7'-0"x7'-0"x1'-4"	7-#7
SF-7.5	7'-6"x7'-6"x1-4"	7-#7
SF-8	8'-0"x8'-0"x1'-4"	8-#7
SF-8.5	8'-6"x8'-6"x1'-4"	8-#7
SF-9	9'-0"x9'-0"x1'-6"	9-#8
SF-9.5	9'-6"x9'-6"x1'-6"	9-#8
SF-10	10'-0"x10'-0"x1'-6"	10-#8
SF-10.5	10'-6"x10'-6"x1'-6"	10-#8
SF-11	11'-0"x11'-0"x1'-8"	11-#8
SF-11.5	11'-6"x11'-6"x1'-8"	11-#8
SF-12	12'-0"x12'-0"x2'-0"	12-#8

SPREAD FOOTING NOTES:
1. NOT ALL FOOTINGS ARE NECESSARILY USED
2. FOOTINGS HAVE BEEN SIZED FOR AN ASSUMED BEARING CAPACITY AS LISTED IN THE GENERAL NOTES OF THIS DOCUMENT. SEE GENERAL NOTES FOR ALL DESIGN REQUIREMENTS AND ASSUMPTIONS

Components and cladding pressures - Roof (Figure Figure 30.3-2G)

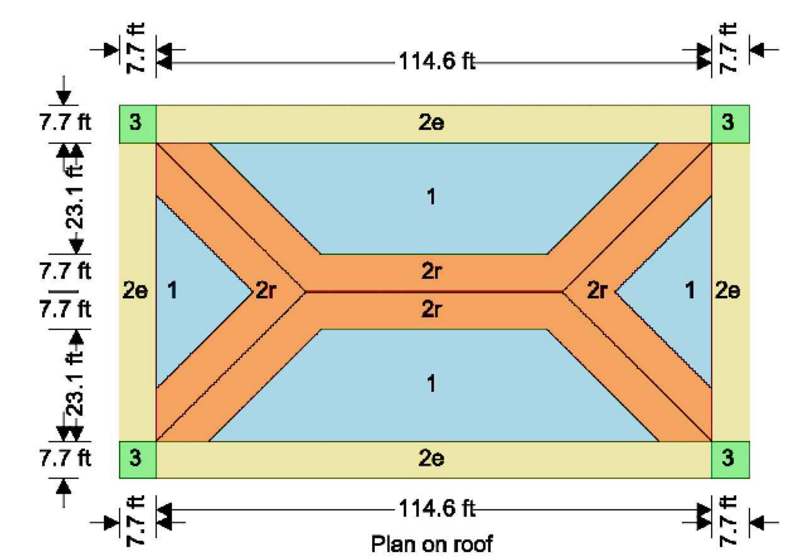
Component	Zone	Length (ft)	Width (ft)	Eff. area (ft^2)	$+GC_p$	$-GC_p$	Pres (+ve) (psf)	Pres (-ve) (psf)
<=10 sf	1	-	-	10.0	0.54	-1.40	12.0 #	-26.5
20 sf	1	-	-	20.0	0.46	-1.22	10.8 #	-23.5
50 sf	1	-	-	50.0	0.37	-0.98	9.2 #	-19.5
>100 sf	1	-	-	100.1	0.30	-0.80	8.0 #	-16.4
<=10 sf	2e	-	-	10.0	0.54	-2.00	12.0 #	-36.6
50 sf	2e	-	-	50.0	0.37	-1.46	9.2 #	-27.5
100 sf	2e	-	-	100.0	0.30	-1.23	8.0 #	-23.7
>200 sf	2e	-	-	200.1	0.30	-1.00	8.0 #	-19.8
<=10 sf	2r	-	-	10.0	0.54	-2.00	12.0 #	-36.6
50 sf	2r	-	-	50.0	0.37	-1.46	9.2 #	-27.5
100 sf	2r	-	-	100.0	0.30	-1.23	8.0 #	-23.7
>200 sf	2r	-	-	200.1	0.30	-1.00	8.0 #	-19.8
<=10 sf	3	-	-	10.0	0.54	-2.00	12.0 #	-36.6
50 sf	3	-	-	50.0	0.37	-1.46	9.2 #	-27.5
100 sf	3	-	-	100.0	0.30	-1.23	8.0 #	-23.7
>200 sf	3	-	-	200.1	0.30	-1.00	8.0 #	-19.8

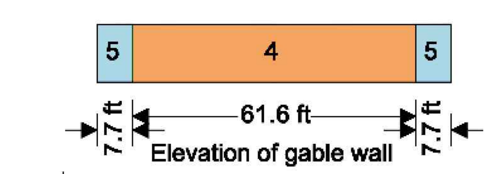
The final net design wind pressure, including all permitted reductions, used in the design shall not be less than 16psf acting in either direction

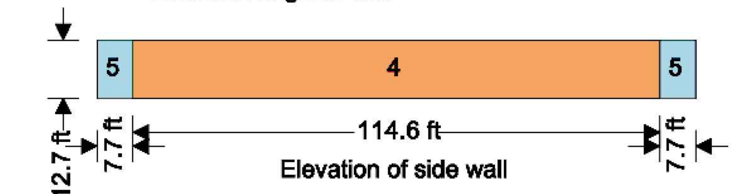
Components and cladding pressures - Wall (Table 30.3-1)

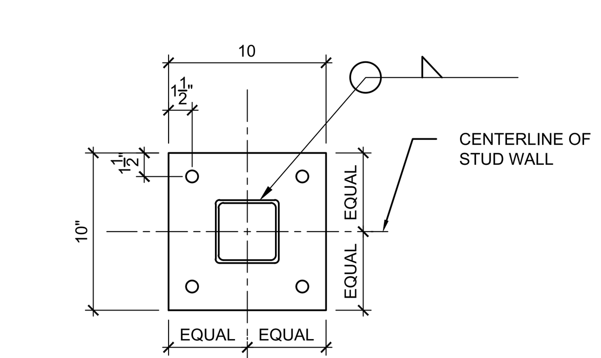
Component	Zone	Length (ft)	Width (ft)	Eff. area (ft^2)	$+GC_p$	$-GC_p$	Pres (+ve) (psf)	Pres (-ve) (psf)
<=10 sf	4	-	-	10.0	1.00	-1.10	19.8	-21.5
50 sf	4	-	-	50.0	0.88	-0.98	17.7	-19.4
200 sf	4	-	-	200.0	0.77	-0.87	15.9 #	-17.6
>500 sf	4	-	-	500.1	0.70	-0.80	14.8 #	-16.4
<=10 sf	5	-	-	10.0	1.00	-1.40	19.8	-26.5
50 sf	5	-	-	50.0	0.88	-1.15	17.7	-22.4
200 sf	5	-	-	200.0	0.77	-0.94	15.9 #	-18.8
>500 sf	5	-	-	500.1	0.70	-0.80	14.8 #	-16.4

The final net design wind pressure, including all permitted reductions, used in the design shall not be less than 16psf acting in either direction

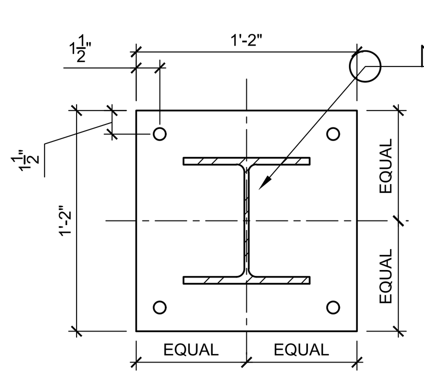




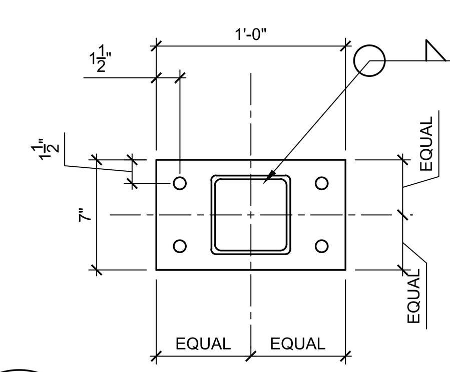




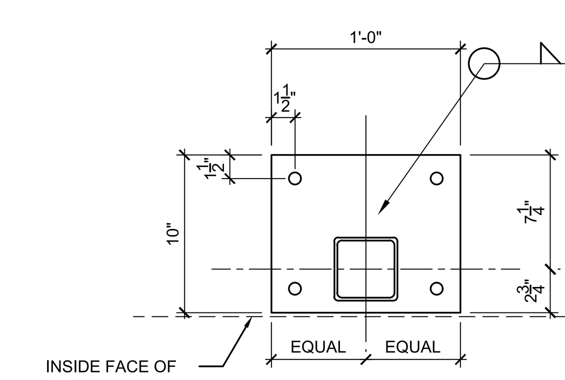
BP-1 / S0.4 **BASE PLATE DETAIL**
SCALE: 1 1/2" = 1'-0"



BP-2 / S0.4 **W8 BASE PLATE DETAIL**
SCALE: 1 1/2" = 1'-0"



BP-3 / S0.4 **BASE PLATE DETAIL**
SCALE: 1 1/2" = 1'-0"



BP-4 / S0.4 **BASE PLATE DETAIL**
SCALE: 1 1/2" = 1'-0"

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MCKEE JOB # :	23.229
DRAWN BY :	CL
DATE:	3.6.24
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	S0.1

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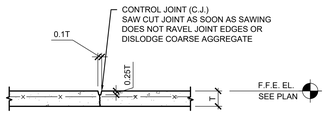
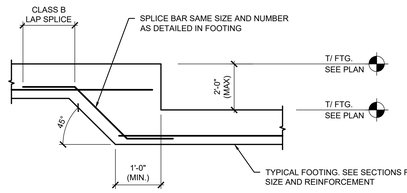


1.1 S0.2 **CONCRETE CONTROL JOINT (C.J.)**
SCALE: 3/4" = 1'-0"



1.2 S0.2 **TYPICAL FOOTING STEP**
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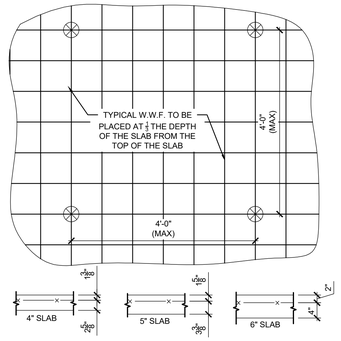


1.3 S0.2 **TYP. W.W.F. PLACEMENT DIAGRAM**
SCALE: 3/4" = 1'-0"

CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE

BAR SIZE (#)	CONCRETE COMPRESSIVE STRENGTH / SPLICE TYPE	3000 PSI TOP BAR (IN.)	3000 PSI OTHER BAR (IN.)	4000 PSI TOP BAR (IN.)	4000 PSI OTHER BAR (IN.)	5000 PSI TOP BAR (IN.)	5000 PSI OTHER BAR (IN.)
3	DEVELOPMENT LENGTH	21	16	18	14	17	13
	CLASS B LAP SPLICE	28	21	24	18	22	17
4	DEVELOPMENT LENGTH	28	22	25	19	22	17
	CLASS B LAP SPLICE	37	28	32	25	29	22
5	DEVELOPMENT LENGTH	36	27	31	24	28	21
	CLASS B LAP SPLICE	46	36	40	31	36	28
6	DEVELOPMENT LENGTH	43	33	37	28	33	25
	CLASS B LAP SPLICE	56	43	48	37	43	33
7	DEVELOPMENT LENGTH	62	48	54	42	48	37
	CLASS B LAP SPLICE	81	62	70	54	63	48
8	DEVELOPMENT LENGTH	71	55	62	47	55	42
	CLASS B LAP SPLICE	93	71	80	62	72	55
9	DEVELOPMENT LENGTH	80	62	70	54	62	48
	CLASS B LAP SPLICE	104	80	90	70	81	62
10	DEVELOPMENT LENGTH	90	70	78	60	70	54
	CLASS B LAP SPLICE	118	90	102	78	91	70
11	DEVELOPMENT LENGTH	100	77	87	67	78	60
	CLASS B LAP SPLICE	131	100	113	87	101	78

REINFORCEMENT LAP SPLICE NOTES:

1. "TOP BAR" INDICATES MORE THAN 12" OF FRESH CONCRETE PLACED BELOW SPICE (ψ_t = 1.3)
2. "OTHER BAR" INDICATES BAR WITH LESS THAN 12" OF FRESH CONCRETE PLACED BELOW SPLICE (ψ_t = 1.0)
3. LAP SCHEDULE ASSUMES NORMAL WEIGHT CONCRETE (λ = 1.0)
4. LAP SCHEDULE ASSUMES UNCOATED BARS (ψ_e = 1.0)
5. SPACING / CLEAR COVER REQUIREMENTS:
   5.1. CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED NOT LESS THAN ONE BAR DIAMETER, CLEAR COVER NOT LESS THAN ONE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT LAP SPLICE NOT LESS THAN CODE MINIMUM.
   (OR)
   5.2. CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED NOT LESS THAN 2 BAR DIAMETERS AND CONCRETE COVER NOT LESS THAN BAR DIAMETER.
6. NOTIFY ENGINEER OF RECORD IF CONDITIONS/ASSUMPTIONS ABOVE ARE NOT MET.

DEVELOPMENT LENGTH OF STD. 90° HOOK

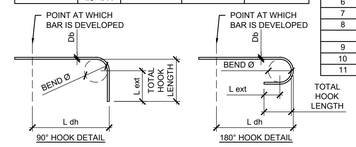
BAR SIZE (#)	f'c	3000 PSI	4000 PSI	5000 PSI
		LENGTH (L dh) (IN.)		
3		6	5	5
4		8	7	6
5		10	9	8
6		12	10	9
7		14	12	11
8		15	14	12
9		17	15	14
10		20	17	16
11		22	19	17

REINFORCEMENT HOOK NOTES

1. HOOK LENGTH ASSUMES NORMAL WEIGHT CONCRETE (λ = 1.0)
2. HOOK LENGTH ASSUMES UNCOATED BARS (ψ_e = 1.0)
3. HOOK LENGTH ASSUME'S SIDE COVER (NORMAL TO PLANE OF HOOK >=2.5" AND FOR 90° HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK >=2" (ψ_e = 0.7)
4. HOOK LENGTH ASSUMES NO CONFINEMENT REINFORCEMENT (ψ_e = 1.0)

STD. HOOK GEOMETRY

TYPE OF STANDARD HOOK	BAR SIZE (#)	MINIMUM INSIDE BEND DIAMETER	STRAIGHT EXTENSION (IN.)	TYPE OF STANDARD HOOK
90 DEGREE HOOK	#3 - #8	6 * Db	12 * Db	90° DETAIL
	#9 - #11	8 * Db		
180 DEGREE HOOK	#3 - #8	6 * Db	GREATER OF 4 * Db AND 2.5"	180° DETAIL
	#9 - #11	8 * Db		

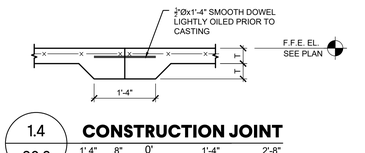


STD. 90° HOOK LENGTH

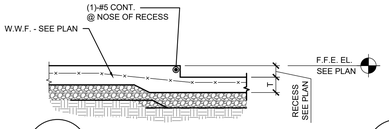
BAR SIZE (#)	TOTAL HOOK LENGTH (IN.)
3	6
4	8
5	10
6	12
7	14
8	15
9	18
10	20
11	22

STD. 180° HOOK LENGTH

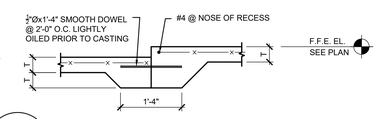
BAR SIZE (#)	TOTAL HOOK LENGTH (IN.)
3	4
4	4
5	5
6	6
7	7
8	7
9	9
10	10
11	11



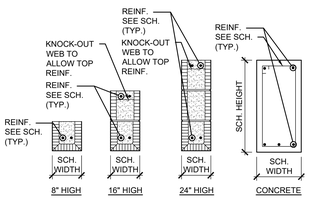
1.4 S0.2 **CONSTRUCTION JOINT**
SCALE: 3/4" = 1'-0"



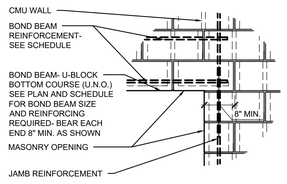
1.5 S0.2 **TYP. SLAB RECESS**
SCALE: 3/4" = 1'-0"



1.6 S0.2 **STEPPED CONSTRUCTION JOINT**
SCALE: 3/4" = 1'-0"



2.1 S0.2 **CMU LINTEL DETAILS**
SCALE: 3/4" = 1'-0"



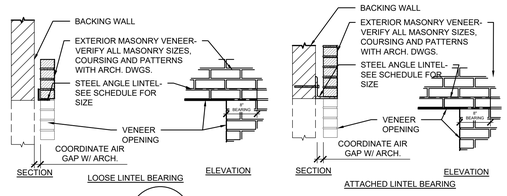
CMU LINTEL SCHEDULE

MARK	WALL SIZE	MAX SPAN (X'-X")	SIZE	REINFORCEMENT
8L-1	8"	3'-4"	8" HIGH U-BLOCK	2-#4 BOTT.
8L-2	8"	6'-4"	16" HIGH U-BLOCK	2-#5 TOP & BOTT.
8L-3	8"	10'-8"	24" HIGH U-BLOCK	2-#5 TOP & BOTT.
8L-4	8"	12'-0"	24" HIGH U-BLOCK	2-#6 TOP & BOTT.

WALL SCHEDULE NOTES:

1. BEAR LINTELS 8" MINIMUM EACH END. PROVIDE VERTICAL REINFORCEMENT AND FULL HEIGHT GROUT (SAME SIZE REINFORCEMENT AS SPECIFIED IN WALL) AT EACH. JAMB CELL.
2. JAMB CELL REINFORCEMENT SHALL BE CONTINUOUS THROUGH U-BLOCK

2.2 S0.2 **CMU LINTEL ELEVATION**
SCALE: 3/4" = 1'-0"



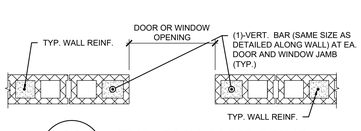
3.1 S0.2 **VENEER LINTEL DETAILS**
SCALE: 3/4" = 1'-0"

BRICK VENEER LINTEL SCHEDULE (BL-X)

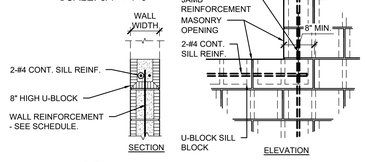
MARK	WALL TYPE	MAX SPAN (X'-X")	SIZE	NOTES
BL-1	CMU	3'-4"	L4x4x¼	
BL-2	CMU	6'-4"	L6x6x⅜	
BL-3	CMU	10'-0"	L6x6x3/8	
BL-4	CMU	>10'-0"	L6x6x⅜ W/ ¾"Øx6" CONCRETE SCREW ANCHOR @ 16" O.C.	ATTACH TO BACKING WALL

BRICK VENEER SCHEDULE NOTES:

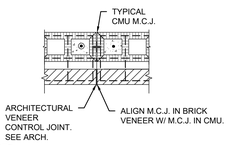
1. ALL LINTELS SHALL BEAR 8" EA. SIDE U.N.O.
2. ALL LINTEL SHALL BE LOOSE BRNG. UNLESS SPECIFIED TO BE ATTACHED TO BACKING WALL
3. WHERE OPENING OCCUR IN WALLS LINTELS ARE NOT CALLED OUT, PROVIDE LINTEL FROM ABOVE SCHEDULE BASED UPON OPENING CLEAR SPAN.
4. NOTIFY ENGINEER IF OPENING SPAN EXCEEDS SCHEDULE LENGTH.



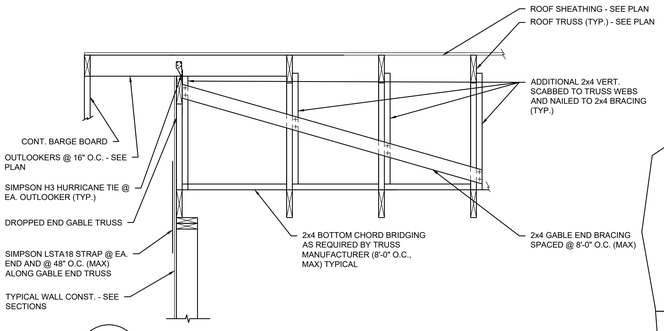
2.3 S0.2 **TYP. CMU JAMB REINF.**
SCALE: 3/4" = 1'-0"



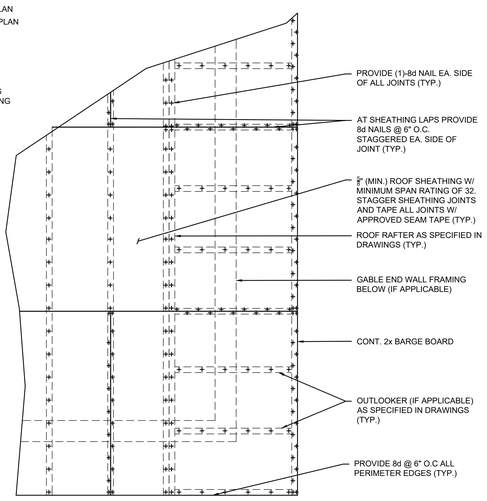
2.4 S0.2 **TYP. CMU SILL REINF.**
SCALE: 3/4" = 1'-0"

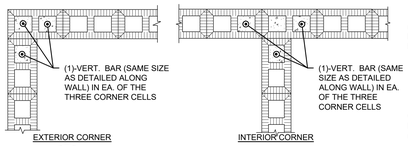


2.5 S0.2 **TYP. VENEER M.C.J.**
SCALE: 3/4" = 1'-0"

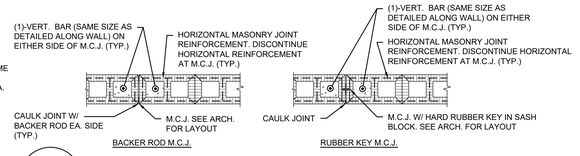


5.6 S0.3 **TYP. GABLE END TRUSS BRACING**
SCALE: N.T.S.

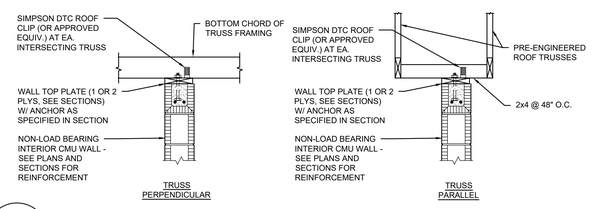




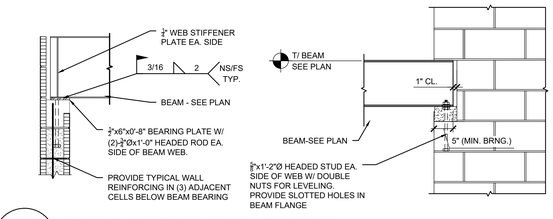
2.6 S0.2 **TYP. CMU CORNER REINF.**
SCALE: 3/4" = 1'-0"



2.7 S0.2 **TYP. M.C.J. DETAILS**
SCALE: 3/4" = 1'-0"



2.8 S0.2 **TYP. CMU WALL BRACED TO WOOD TRUSSES**
SCALE: 3/4" = 1'-0"



6.7 S0.4 **TYPICAL BEAM BRNG. ON CMU**
SCALE: 3/4" = 1'-0"

WOOD ROOF SHEATHING FASTENING SCHEDULE

C&C PRESSURE ZONE	FASTENING SCHEDULE
1	8d @ 12" O.C.
2	8d @ 12" O.C.
3	8d @ 6" O.C.
SHEATHING JOINT	8d @ 6" O.C. STAGGERED
ROOF EDGE	8d @ 4" O.C.

5.2 S0.3 **TYP. ROOF SHEATHING ATTACHMENT**
SCALE: 3/4" = 1'-0"

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ALABAMA LICENSED No. 30070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY N. SANFORD

SHEET TITLE : TYPICAL DETAILS AND SCHEDULES

MCKEE JOB # : 23.229

DRAWN BY : CL

DATE: 3.6.24

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : S0.2

REQUIRED STRUCTURAL OBSERVATIONS FOR STRUCTURE IN ACCORDANCE WITH IBC 1704.6

IBC REFERENCE	CONDITION REQUIRING STRUCTURAL OBSERVATION	DOES CONDITION EXIST ON THIS PROJECT (Y/N)	ADDITIONAL OBSERVATIONS REQUIRED
1704.6.1.1	RISK CAT. III OR IV	Y	-
1704.6.1.2	HIGH RISE BUILDING	N	
1704.6.1.3	SEISMIC DESIGN CATEGORY E & GREATER THAN 2 STORIES	N	
1704.6.1.4	ADDITIONAL OBSERVATIONS REQUIRED BY SEOR	N	SEE PROJECT DRAWINGS
1704.6.1.5	ADDITIONAL OBSERVATION REQUIRED BY BUILDING OFFICIAL	VERIFY WITH AUTHORITY HAVING JURISDICTION	VERIFY WITH AUTHORITY HAVING JURISDICTION

DESIGNATED SEISMIC / WIND RESISTANCE SYSTEM

IBC REFERENCE	PROJECT CONDITION	DOES CONDITION EXIST (Y/N)	DESIGNATED WIND RESISTANCE SYSTEM IN ACCORDANCE IBC 1704.3.3
1705.12.1	WIND EXPOSURE B, WHERE V=150MPH OR GREATER	N	
1705.12.2	WIND EXPOSURE C OR D WHERE V=140 MPH OR GREATER	N	

IBC REFERENCE	PROJECT CONDITION	DOES CONDITION EXIST (Y/N)	DESIGNATED SEISMIC RESISTANCE SYSTEM IN ACCORDANCE IBC 1704.3.2
1705.13.1.1	STRUCTURAL STEEL SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	Y	
1705.13.1.2	STRUCTURAL STEEL ELEMENTS FOR THE SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	Y	

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3
2. REINFORCING BAR WELDING			AWS D1.4, ACI 318: 26.6.4
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	
B. INSPECT SINGLE PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$"		X	
C. INSPECT ALL OTHER WELDS	X		
3. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			ACI 318: 17.8.2.4,17.8.2
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A		X	
5. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: 19, 26.4.3, 26.4.4, IBC 1904.1,1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C31, ASTM C172, ACI 318: 26.5, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5
9. INSPECT PRESTRESSED CONCRETE			ACI 318: 26.10
A. APPLICATION OF PRESTRESSING FORCES	X		
B. GROUTING OF BONDED PRESTRESSING TENDONS	X		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X	ACI 318: 26.10
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTION OR REINFORCEMENT AT JOISTS CLASSIFIED AS MODERATE OR HIGH DEFORMABLITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C,D,E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD			ACI 318: 26.13.1.3 ACI 550.5
A. INSTALLATION OF THE EMBEDDED PARTS	X		
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X		
C. COMPLETION OF CONNECTIONS IN THE FIELD	X		
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5		X	ACI 318: 26.13.1.3
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318: 26.11.2
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBERS BEING FORMED.		X	ACI 318 26.11.1.2(b)

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PREVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		X
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS PREPARED PROPERLY.	X	
CONCEALED CONNECTIONS		X

SCHEDULE OF SPECIAL INSPECTIONS PER IBC

IBC REFERENCE	MATERIAL / SYSTEMS / COMPONENTS / WORK	REQ'D (Y/N)	TYPE / EXTENT INSPECTION OR TEST REFERENCED STANDARD	PERIODIC / CONTINUOUS	ADDITIONAL REQUIREMENTS
SPECIAL CASES					
1705.1.1.1	MATERIAL & SYSTEMS ALTERNATIVES TO THAT PRESCRIBED BY CODE	N		P	
1705.1.1.2	UNUSUAL DESIGN APPLICATIONS	N		P	
1705.1.1.3	MATERIALS & SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS	N		P	
STEEL CONSTRUCTION					
1705.2.1	STRUCTURAL STEEL	Y	AISC 360 REQUIREMENTS	SEE AISC CHAPTER N	
1705.2.2	COLD-FORMED STEEL DECK	N	SDI QA/QC REQUIREMENTS	SEE SDI QC/QA APPENDIX 1	
1705.2.3	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	N	SEE IBC TABLE 1705.2.3		
1705.3.4	COLD-FORMED TRUSSES SPANNING 60' OR GREATER	N	VERIFY ALL DETAILS IN ACCORDANCE W/ APPROVED TRUSS DRAWINGS	P	
CONCRETE CONSTRUCTION					
1705.3.1	WELDING OF REINFORCING BARS	N	AWS D1.4 REQUIREMENTS	SEE SPEC	
1705.3.2	MATERIAL TEST	Y	ACI 318 CH. 19 & 20 REQUIREMENTS	SEE SPEC	
MASONRY CONSTRUCTION					
1705.4.1	GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV	N	TMS 602 LEVEL 2	SEE TMS 602 TABLE 4	
1705.4.2	VERTICAL MASONRY FOUNDATION ELEMENTS	Y	TMS 602 LEVEL 2	SEE TMS 602 TABLE 4	
WOOD CONSTRUCTION					
1705.5.1	HIGH LOAD DIAPHRAGMS	Y	VERIFY ALL CONSTRUCTION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS	P	
1705.5.2	METAL PLATE CONNECTED WOOD TRUSSES SPANNING 60' OR GREATER	Y	VERIFY ALL DETAILS IN ACCORDANCE W/ APPROVED TRUSS DRAWINGS	P	
1705.5.3	MASS TIMBER CONSTRUCTION (TYPE IV-A, IV-B, AND IV-C CONSTRUCTION)	N		P	
SOILS					
1705.6	SPECIAL INSPECTION AND TEST OF EXISTING SITE SOIL CONDITIONS	Y		P	
FOUNDATIONS					
1705.7	SPECIAL INSPECTION AND TEST OF DURING INSTALLATION OF DRIVEN DEEP FOUNDATION ELEMENTS	N		C	
1705.8	SPECIAL INSPECTION AND TEST OF DURING INSTALLATION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS	N		C	
1705.9	EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE, & ANY OTHER REQUIRED DATA	N		C	
1705.10	WHEN THERE IS A REASONABLE DOUBT AS TO THE STRUCTURAL INTEGRITY OF A DEEP FOUNDATION ELEMENT, AN ENGINEERING ASSESSMENT SHALL BE REQUIRED	N		C	
FABRICATED ITEMS					
1705.11	SPECIAL INSPECTION OF FABRICATED ITEMS IN ACCORDANCE WITH IBC 1704.2.5	Y		P	
SPECIAL INSPECTIONS FOR WIND RESISTANCE					
1705.12.1	STRUCTURAL WOOD	Y		P	
	FIELD GLUING	Y		C	
	NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS IN THE MWFRS	Y		P	
1705.12.2	COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	N		P	
	WELDING	Y		P	
	SCREW ATTACHMENT, BOLTING, ANCHORING, OTHER FASTENING OF ELEMENTS IN THE MWFRS	Y		P	
1705.12.3.1	ROOF COVERING, ROOF DECKING, AND ROOF FRAMING CONNECTIONS	Y		P	
1705.12.3.1	EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING	Y		P	
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
1705.13.1	STRUCTURAL STEEL	N		P	
1705.13.1.1	SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	N		P	NOTE EXCEPTIONS
1705.13.2	SFRS ASSIGNED TO DESIGN CATEGORIES C, D, E, AND F	N		P	
	FIELD GLUING	N		C	
	NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS IN THE MSFRS	N		P	
1705.13.3	COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	N		P	
	WELDING	N		P	
	SCREW ATTACHMENT, BOLTING, ANCHORING, OTHER FASTENING OF ELEMENTS IN THE MWFRS	N		P	
1705.13.4	DESIGNATED SEISMIC SYSTEMS	N		P	
1705.13.5	ARCHITECTURAL COMPONENTS	N		P	NOTE EXCEPTIONS
1705.13.6	PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS	N		P	NOTE EXCEPTIONS
1705.13.7	STORAGE RACKS	N		P	
1705.13.8	SEISMIC ISOLATIONS SYSTEMS	N		P	
1705.13.9	COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES	N		P	
TESTING FOR SEISMIC RESISTANCE					
1705.14.1	STRUCTURAL STEEL	N		P	
1705.14.1.1	SEISMIC FORCE-RESISTING SYSTEMS	N		P	NOTE EXCEPTIONS
1705.14.1.2	STRUCTURAL STEEL ELEMENTS	N		P	
1705.14.2	NONSTRUCTURAL COMPONENTS	N		P	
1705.14.3	DESIGNATED SEISMIC SYSTEMS	N		P	
1705.14.4	SEISMIC ISOLATION SYSTEMS	N		P	

CONCRETE INSPECTIONS AND TEST SHALL NOT BE REQUIRED FOR:
1. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDING THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK
2. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDING THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE
2.1. THE FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION
2.2. THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1809.7
2.3. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH (f'c) NOT MORE THAN 2500 PSI, REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS
3. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI
4. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.2
5. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE

MASONRY SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR:
1. EMPIRICALLY DESIGNED MASONRY, GLASS UNIT OR MASONRY VENEER DESIGNED IN ACCORDANCE WITH SECTIONS 2109, SECTION 2110, OR CHAPTER 14, RESPECTIVELY, WHERE THEY ARE PART OF THE A STRUCTURE CLASSIFIED AS RISK CATEGORY I, II, OR III.
2. MASONRY FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.3(1), 1807.1.6.3(2),1807.1.6.3(3), or 1807.1.6.3(4).
3. MASONRY FIREPLACES, MASONRY HEATERS OR MASONRY CHIMNEYS INSTALLED OR CONSTRUCTED IN ACCORDANCE WITH SECTION 2111, 2112, OR 2113, RESPECTIVELY

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ALABAMA LICENSED No. 35070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY N. SMIFORD

SHEET TITLE : SPECIAL INSPECTION SCHEDULE

MCKEE JOB # : 23.229

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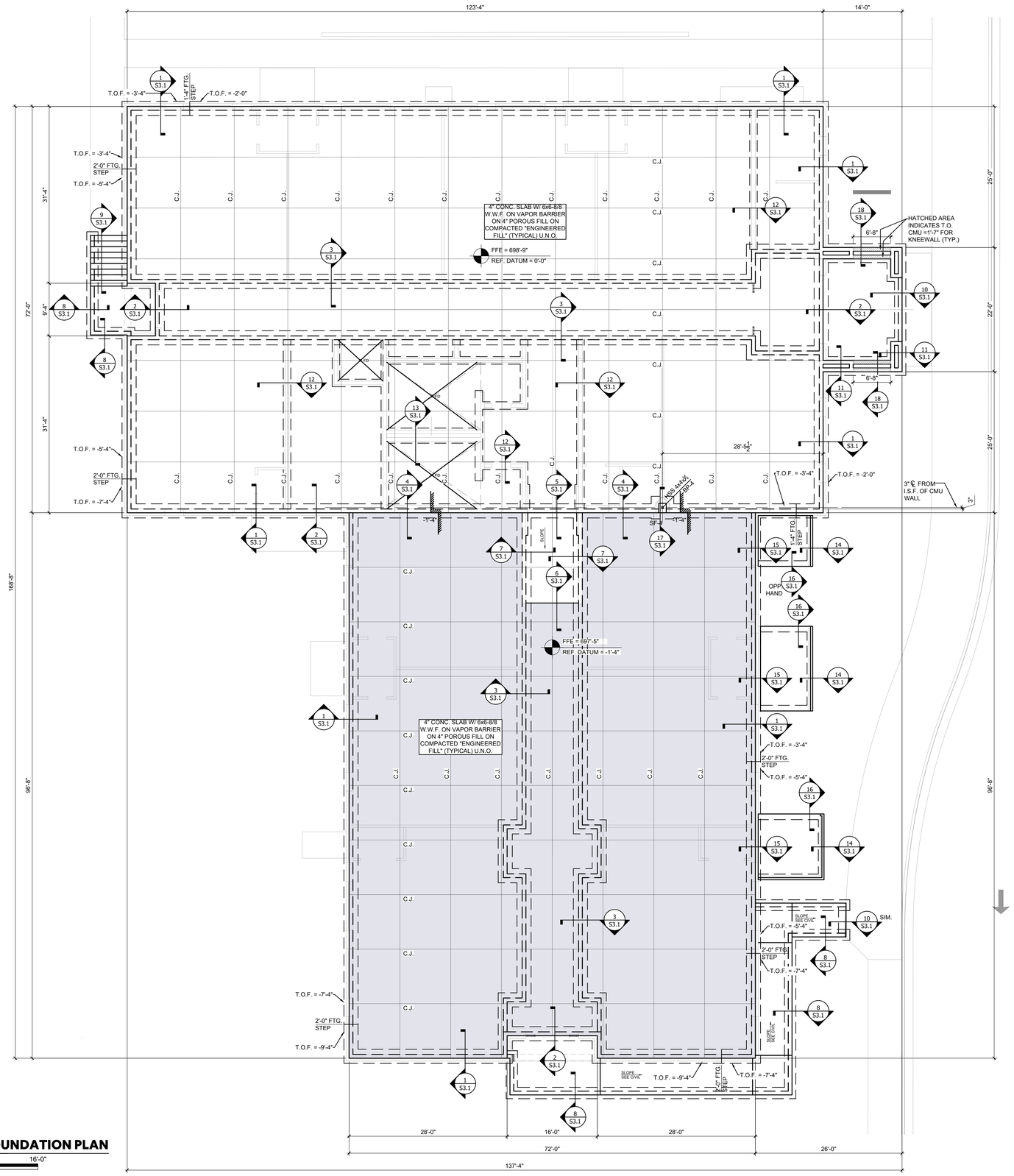


1 / S1.1 **CLASSROOM FOUNDATION PLAN**

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL TOP OF FOOTING ELEVATIONS SHOWN ON DRAWINGS WITH FINAL GRADING PLAN. MINIMUM COVER FROM TOP OF FOOTING TO OUTSIDE FINISH GRADE SHALL BE 18".
5. COORDINATE ALL SLOPES, STEPS, RECESSES, AND PLUMBING FIXTURES W/ CONTRACT DRAWINGS.

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

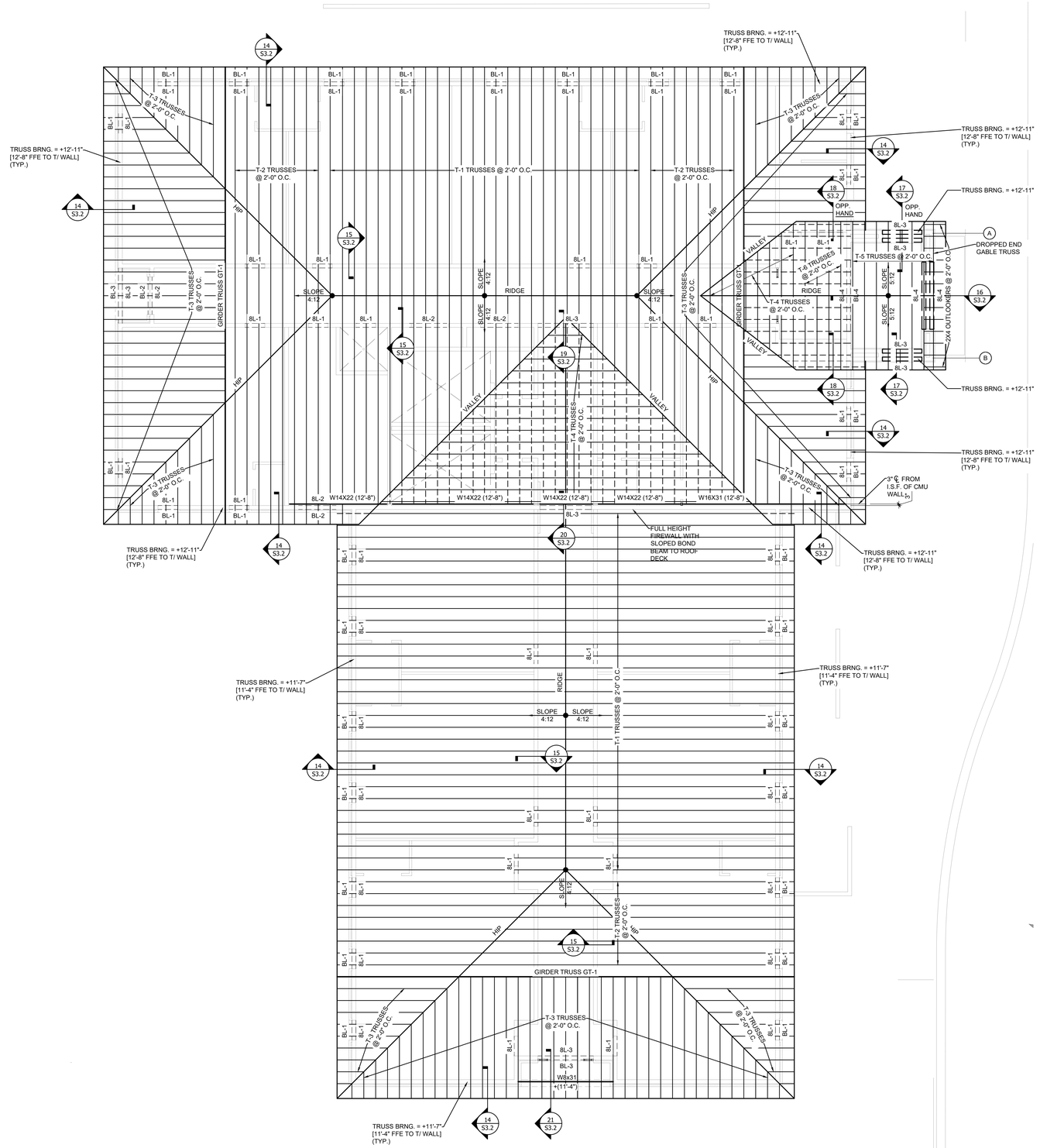
McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA LICENSED No. 38070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY N. SANFORD

SHEET TITLE :	CLASSROOM FOUNDATION PLAN
MCKEE JOB # :	23.229
DRAWN BY :	CL
DATE:	3.6.24
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

SHEET NO. : S1.1



ROOF DECKING
5/8" NOMINAL STRUCTURAL I PANELS
NAILED IN ACCORDANCE WITH
AMERICAN PLYWOOD ASSOCIATION
SPECIFICATIONS.

1
S1.2

CLASSROOM ROOF FRAMING PLAN

8'-0" 4'-0" 0' 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
4. SEE S2.1 FOR TRUSS DIAGRAMS

DAY STRUCTURES
OUR WORK STANDS UP
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334.277.9550

ADDITIONS
TO
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MOULTON, ALABAMA

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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA LICENSED
No. 38070
PROFESSIONAL ENGINEER
TIMOTHY N. SANFORD
3.6.2024

SHEET TITLE :	CLASSROOM ROOF FRAMING PLAN
MCKEE JOB # :	23.229
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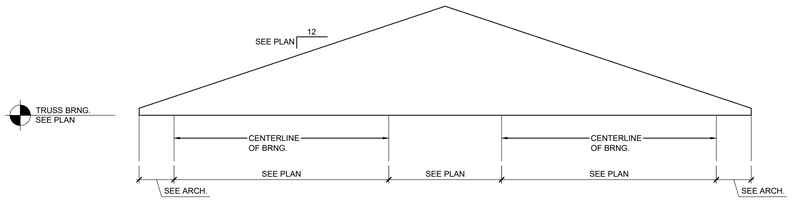
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : S1.2

TRUSS NOTES:

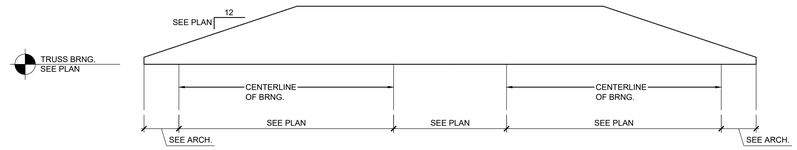
1. SEE GENERAL NOTES FOR PREFABRICATED TRUSS DESIGN REQUIREMENTS.
2. TRUSS LAYOUTS ARE INTENDED TO BE DIAGRAMMATICAL FOR OUTSIDE CONFIGURATION ONLY. VERIFY ALL DIMENSIONS AND OVERHANGS WITH ARCHITECTURAL DRAWINGS.
3. HORIZONTAL SPLICES MAY BE LOCATED AS REQUIRED BY TRUSS MANUFACTURER.
4. PROVIDE LATERAL BRACES AND TRUSS BRIDGING AS REQUIRED.
5. TRUSS MANUFACTURER SHALL DESIGN AND SHOW ON ERECTION DRAWINGS ALL SECONDARY FRAMING AND PERMANENT BRACING REQUIRED.
6. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING.
7. CONTRACTOR SHALL INSTALL TRUSSES IN SUCH A WAY AS TO INSURE PLUMB, LEVEL, STRUCTURAL BASE FOR EAVE TRIM AND CORNICE. NO TWISTING OR WARPING OF TRUSS ENDS WILL BE ACCEPTED PRIOR TO INSTALLATION OF CORNICE AND TRIM.



T-1 / S2.1 **TRUSS DIAGRAM**

0 0 0' 0 0

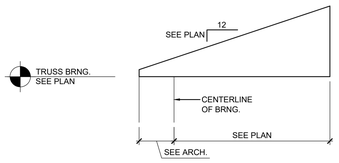
SCALE: NTS



GT-1 / S2.1 T-2 / S2.1 **TRUSS DIAGRAM**

0 0 0' 0 0

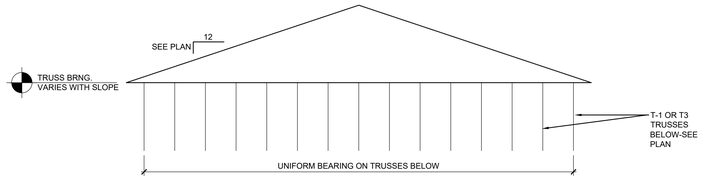
SCALE: NTS



T-3 / S2.1 **TRUSS DIAGRAM**

0 0 0' 0 0

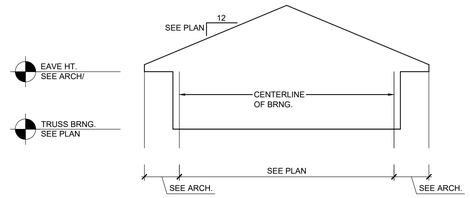
SCALE: NTS



T-4 / S2.1 **TRUSS DIAGRAM**

0 0 0' 0 0

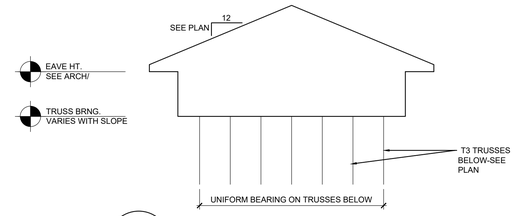
SCALE: NTS



T-5 / S2.1 **TRUSS DIAGRAM**

0 0 0' 0 0

SCALE: NTS



T-6 / S2.1 **TRUSS DIAGRAM**

0 0 0' 0 0

SCALE: NTS

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
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ALABAMA LICENSED No. 38070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY N. SANFORD

SHEET TITLE : GYMNASIUM SECTIONS

MCKEE JOB # : 23.229

DRAWN BY : CL

DATE: 3.6.24

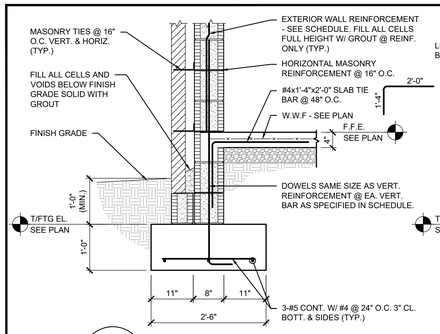
REVISED DATE:

REVISED DATE:

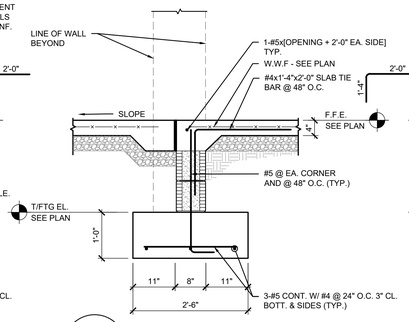
REVISED DATE:

SHEET NO. : S2.1

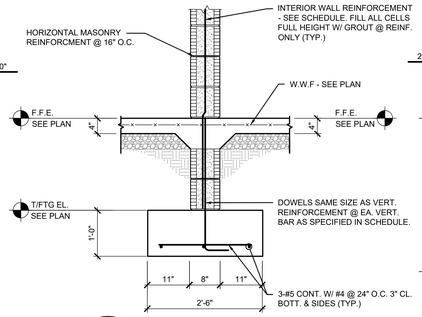
DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550



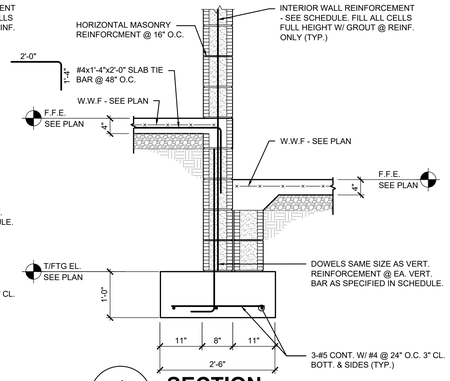
1 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



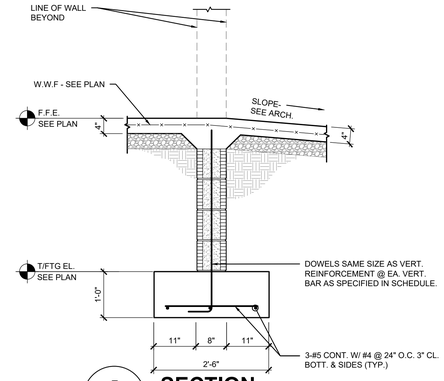
2 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



3 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"

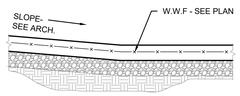


4 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"

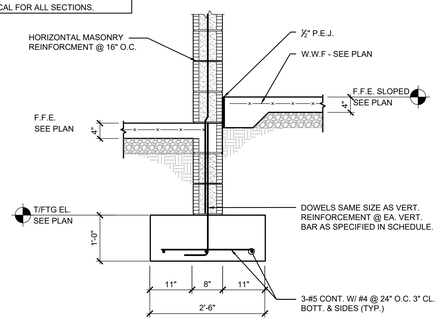


5 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"

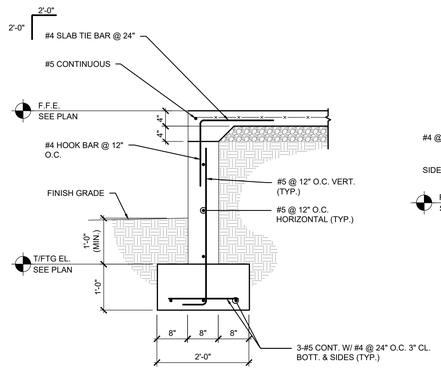
NOTE:
THE NUMBER OF CMU COURSES SHOWN IN SECTIONS IS SCHEMATIC AND DOES NOT NECESSARILY REPRESENT THE NUMBER OF COURSES REQUIRED IN THE FIELD. COORDINATE HEIGHT OF WALL AND DISTANCE FROM FFE TO TOP OF FOOTING WITH ELEVATIONS SHOWN ON THE PLANS. TYPICAL FOR ALL SECTIONS.



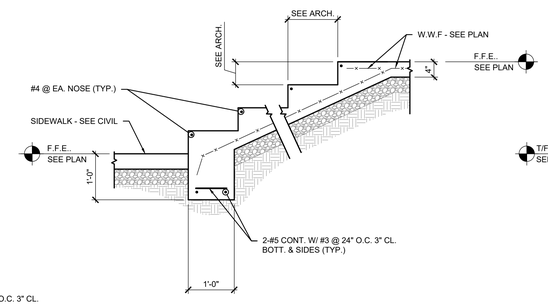
6 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



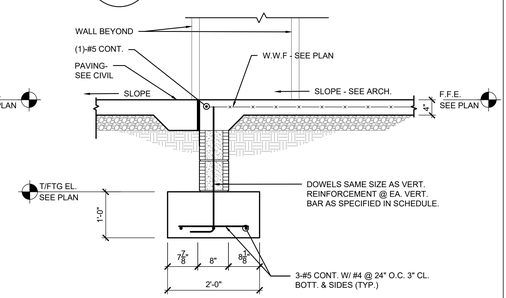
7 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



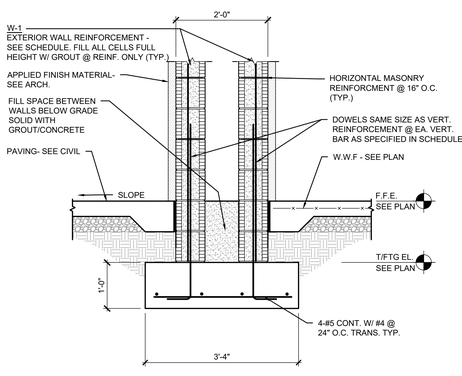
8 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



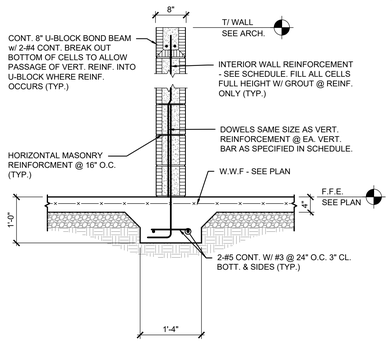
9 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



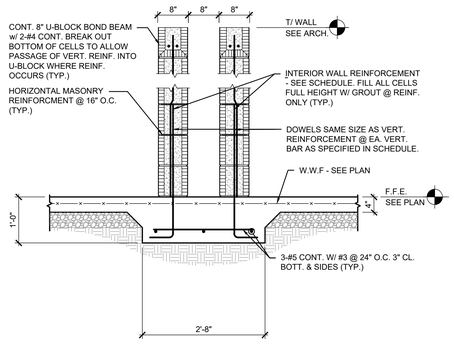
10 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



12 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



13 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



14 S3.1 **SECTION**
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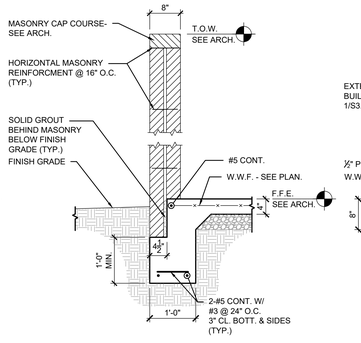

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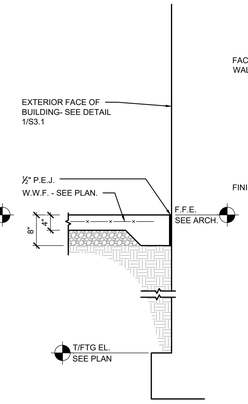
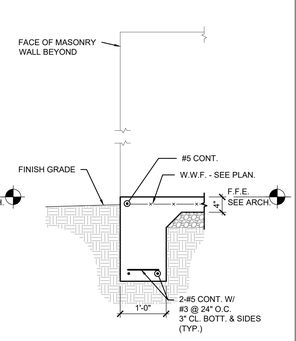
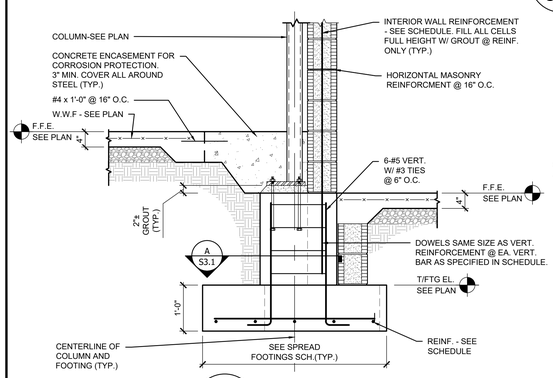


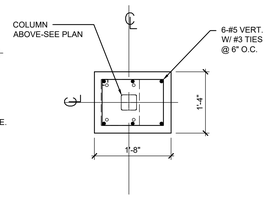
16 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



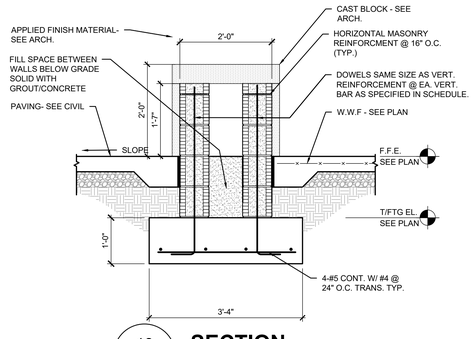
17 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



17 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



A S3.1 **SECTION**
SCALE: 3/4" = 1'-0"



18 S3.1 **SECTION**
SCALE: 3/4" = 1'-0"

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
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ALABAMA LICENSED No. 3070 PROFESSIONAL ENGINEER TIMOTHY N. SANFORD 3.6.2024

DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

SHEET TITLE :	CLASSROOM SECTIONS
MCKEE JOB # :	23.229
DRAWN BY :	CL
DATE:	3.6.24
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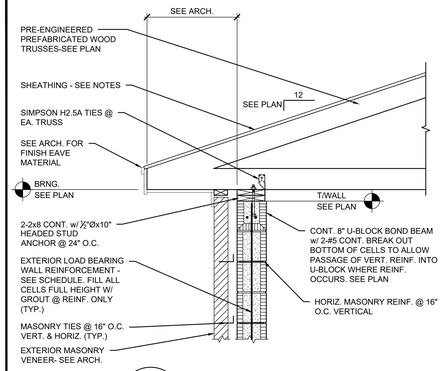
SHEET NO. :	S3.1



14 / S3.2 **SECTION**
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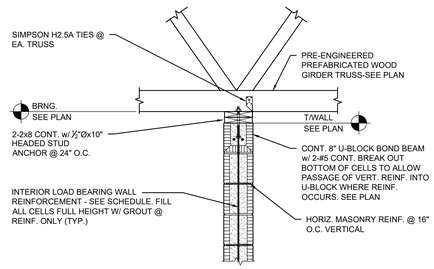
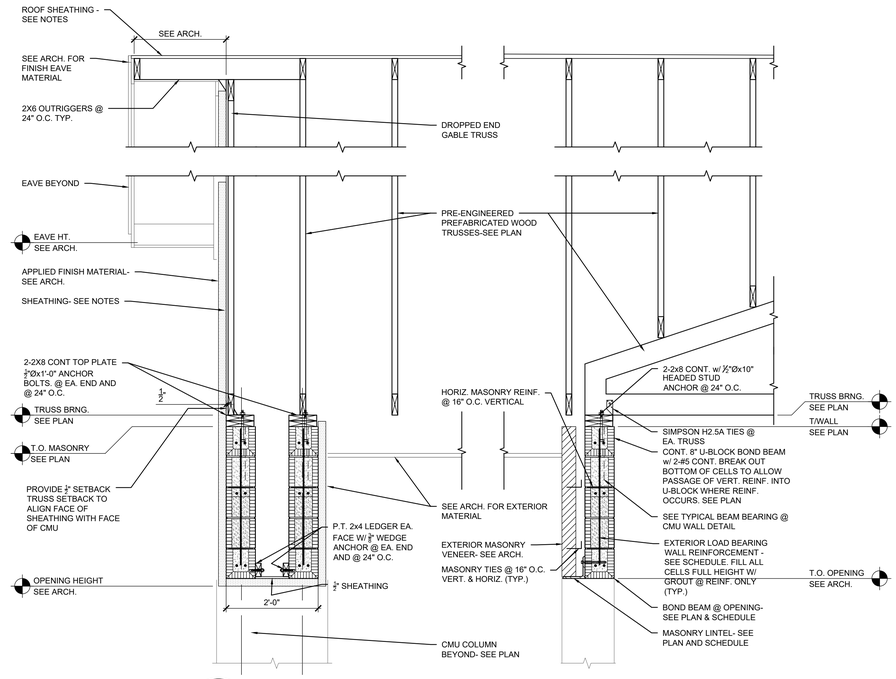
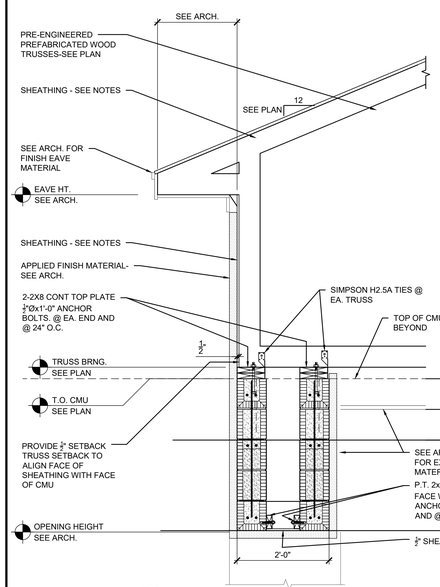


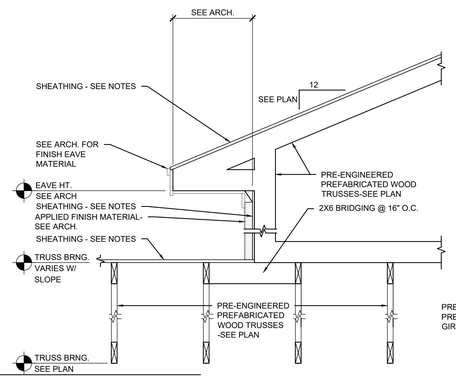
15 / S3.2 **SECTION**
SCALE: 3/4" = 1'-0"



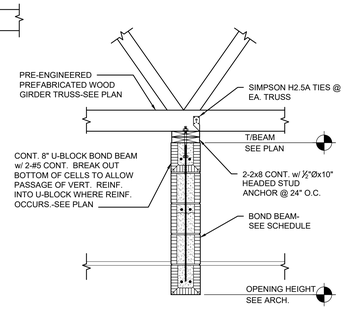
16 / S3.2 **SECTION**
SCALE: 3/4" = 1'-0"



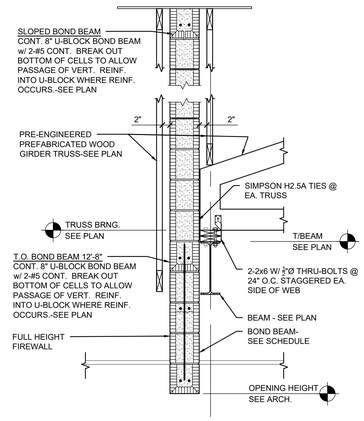
17 / S3.2 **SECTION**
SCALE: 3/4" = 1'-0"



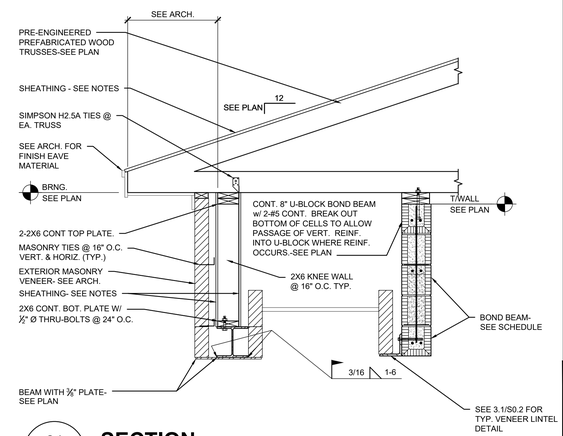
18 / S3.2 **SECTION**
SCALE: 3/4" = 1'-0"



19 / S3.2 **SECTION**
SCALE: 3/4" = 1'-0"



20 / S3.2 **SECTION**
SCALE: 3/4" = 1'-0"



21 / S3.2 **SECTION**
SCALE: 3/4" = 1'-0"

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ALABAMA LICENSED No. 36070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY N. SANFORD

SHEET TITLE : CLASSROOM SECTIONS

MCKEE JOB # : 23.229

DRAWN BY : CL

DATE: 3.6.24

REVISED DATE:

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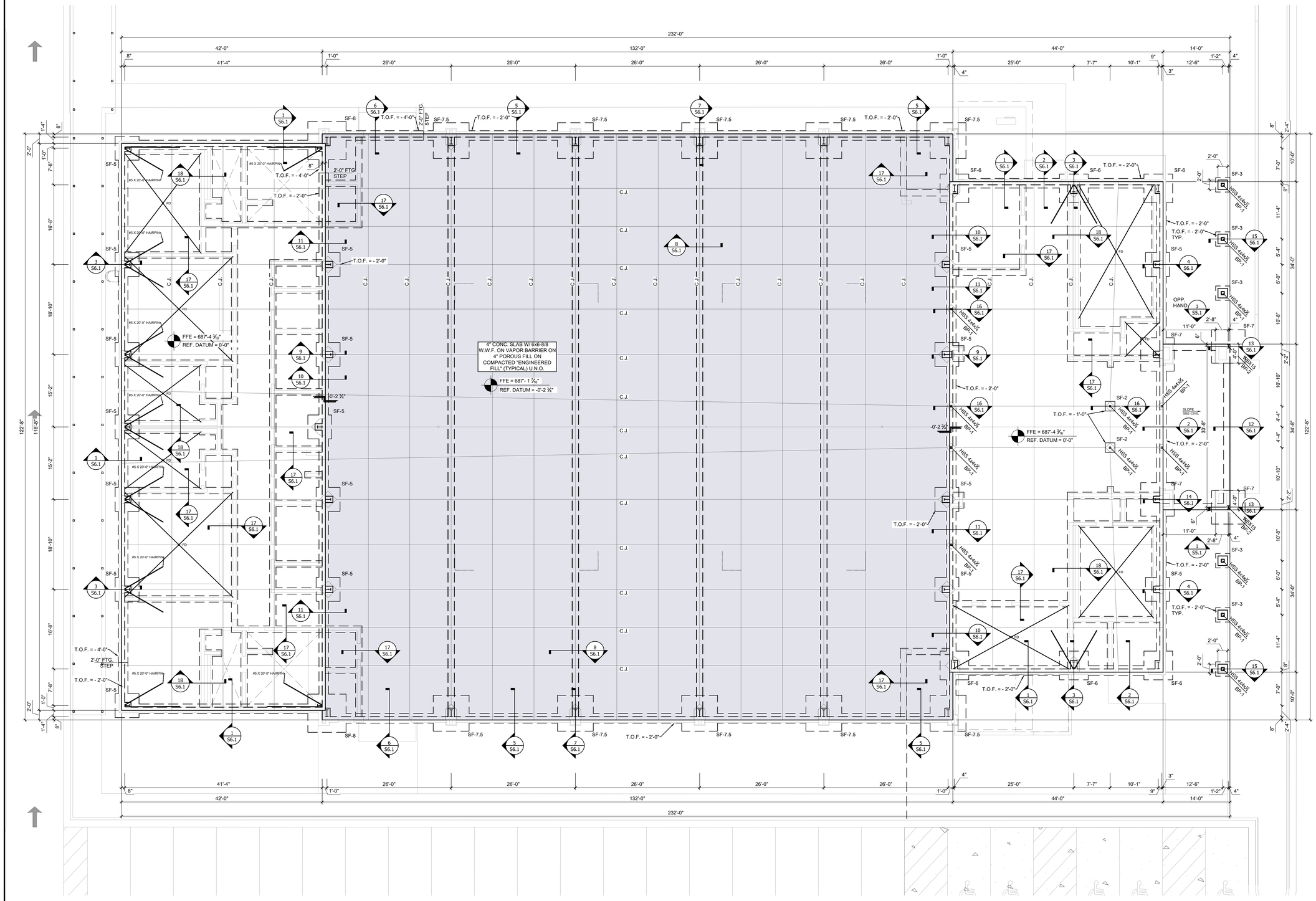
DAY STRUCTURES
OUR WORK STANDS UP
141 W. MAIN STREET
PRATTVILLE, AL 36067
334.277.9550

SHEET NO. : S3.2



ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

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McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 38070 3.6.2024 TIMOTHY N. SANFORD

SHEET TITLE :	GYMNASIUM FOUNDATION PLAN
MCKEE JOB # :	23.229
DRAWN BY :	CL
DATE:	3.6.24
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	S4.1

1 / S4.1

GYMNASIUM FOUNDATION PLAN

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL TOP OF FOOTING ELEVATIONS SHOWN ON DRAWINGS WITH FINAL GRADING PLAN. MINIMUM COVER FROM TOP OF FOOTING TO OUTSIDE FINISH GRADE SHALL BE 1'-0".
5. COORDINATE ALL SLOPES, STEPS, RECESSES, AND PLUMBING FIXTURES W/ CONTRACT DRAWINGS.

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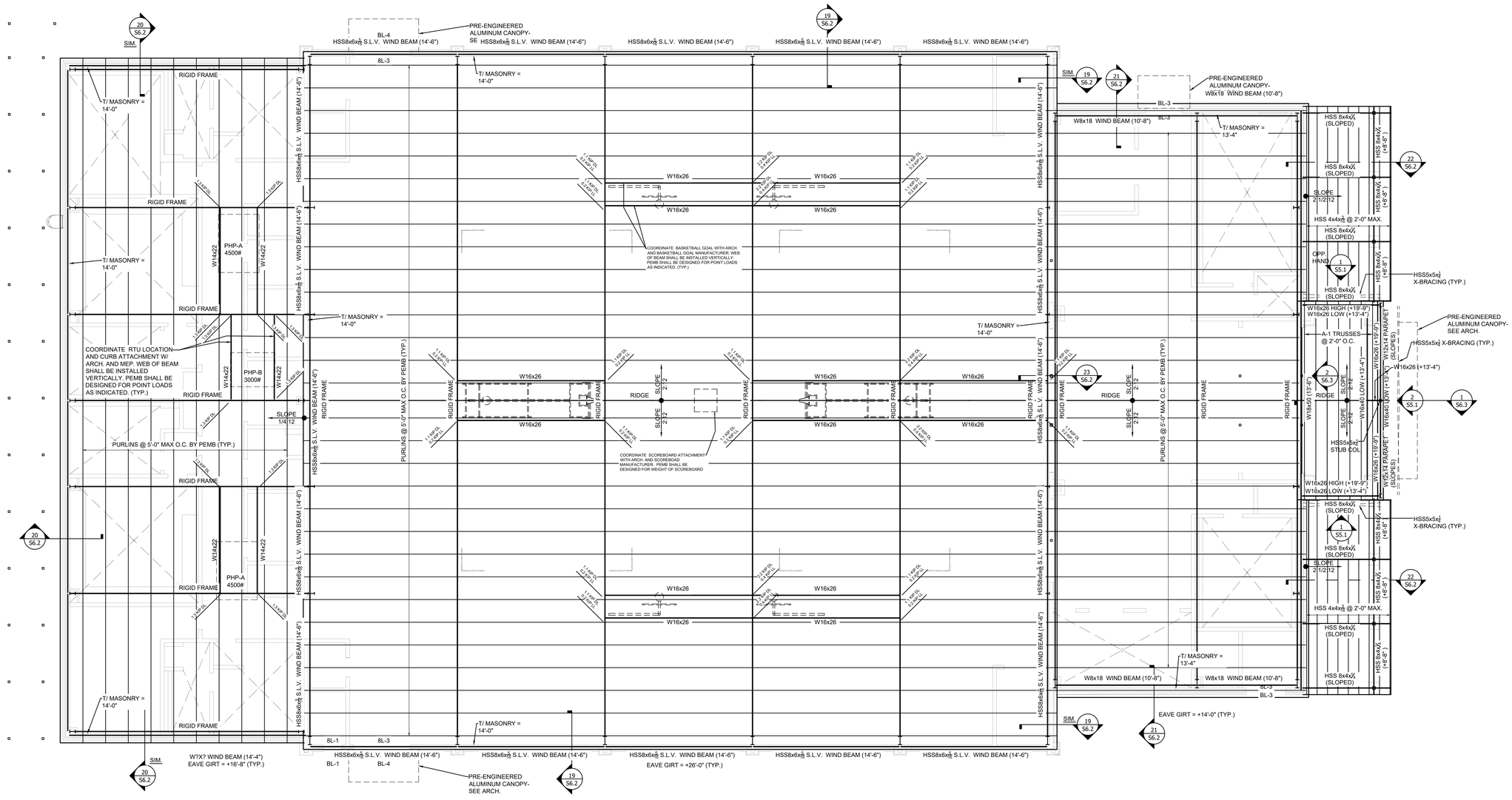

1 / S4.2 GYMNASIUM ROOF FRAMING PLAN

8'-0" 4'-0" 0' 8'-0" 16'-0"

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

NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0"
2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN.
4. [X.X KIP] INDICATES HORIZONTAL WIND BEAM REACTION TO METAL BUILDING FRAME.

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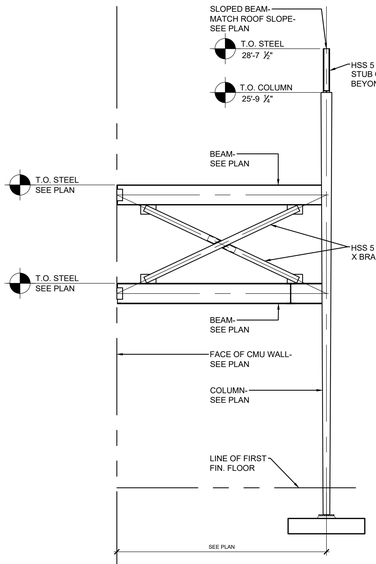
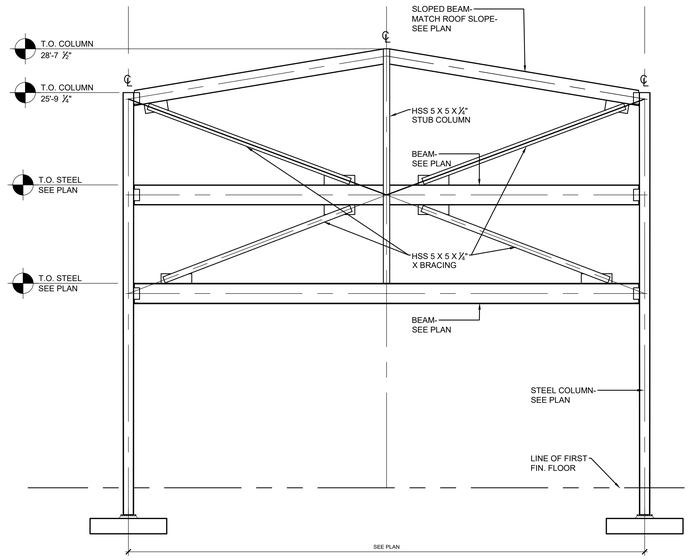
ALABAMA LICENSED No: 38070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY N. SANFORD

SHEET TITLE :	GYMNASIUM ROOF FRAMING PLAN
MCKEE JOB # :	23.229
DRAWN BY :	CL
DATE:	3.6.24
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	S4.2



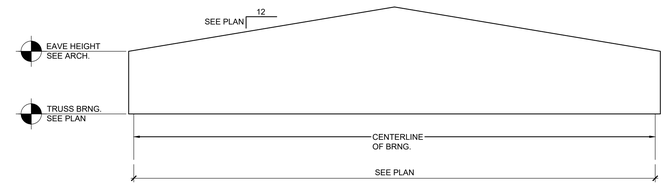
1 S5.1 **ELEVATION**

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



2 S5.1 **ELEVATION**

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



A-1 S5.1 **TRUSS DIAGRAM**

SCALE: NTS

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ALABAMA LICENSED No: 38070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY N. SANFORD

SHEET TITLE : GYMNASIUM SECTIONS

MCKEE JOB # : 23.229

DRAWN BY : CL

DATE: 3.6.24

REVISED DATE:

REVISED DATE:

REVISED DATE:

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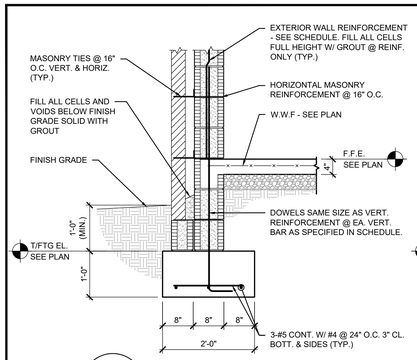
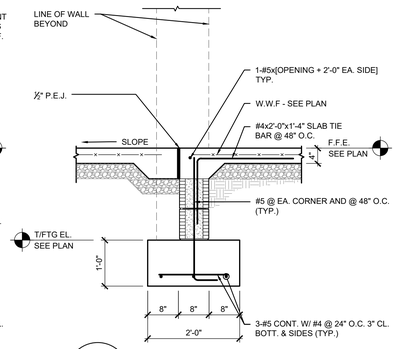
SHEET NO. : S5.1



1 S6.1 **SECTION**
SCALE: 3/4" = 1'-0"



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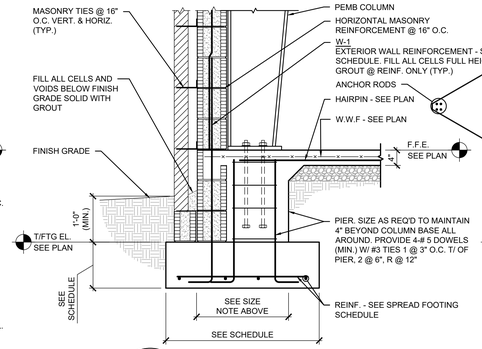

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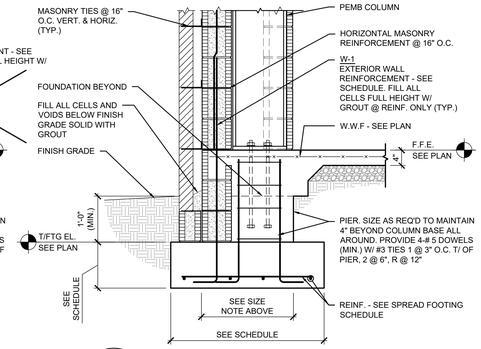

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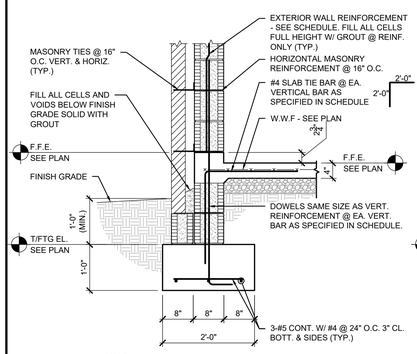
SCALE: 3/4" = 1'-0"



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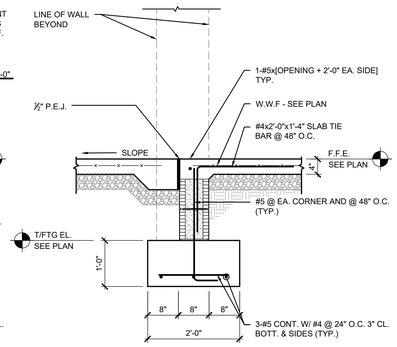

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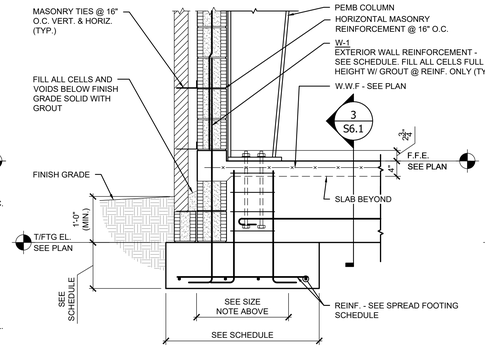
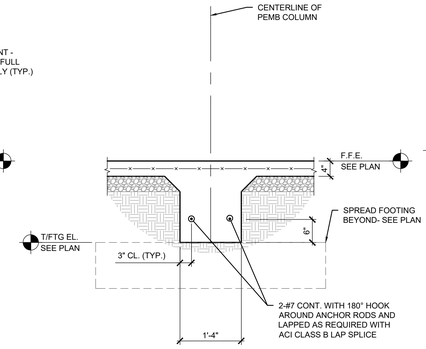
SCALE: 3/4" = 1'-0"



7 S6.1 **SECTION**
SCALE: 3/4" = 1'-0"



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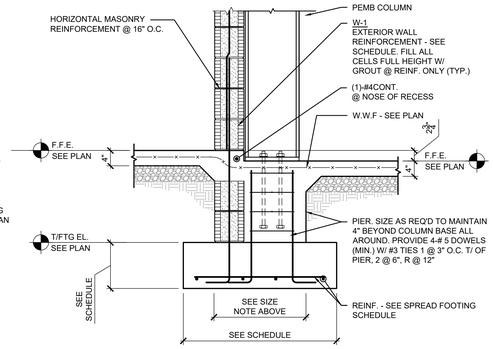
SCALE: 3/4" = 1'-0"



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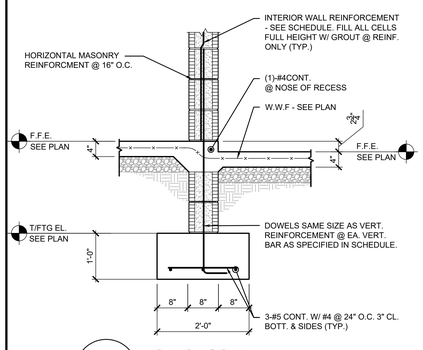
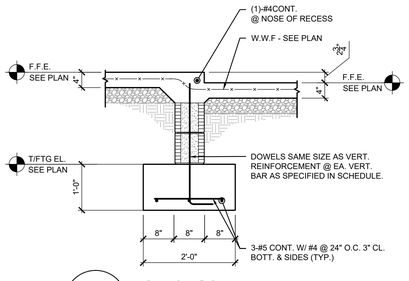
SCALE: 3/4" = 1'-0"

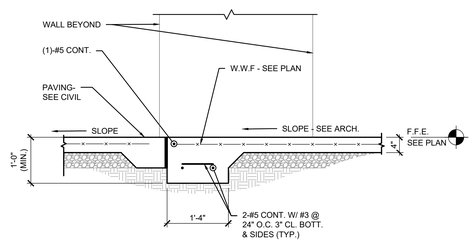


10 S6.1 **SECTION**
SCALE: 3/4" = 1'-0"

NOTE:
THE NUMBER OF CMU COURSES SHOWN IN SECTIONS IS SCHEMATIC AND DOES NOT NECESSARILY REPRESENT THE NUMBER OF COURSES REQUIRED IN THE FIELD. COORDINATE HEIGHT OF WALL AND DISTANCE FROM FFE TO TOP OF FOOTING WITH ELEVATIONS SHOWN ON THE PLANS. TYPICAL FOR ALL SECTIONS.



11 S6.1 **SECTION**
SCALE: 3/4" = 1'-0"



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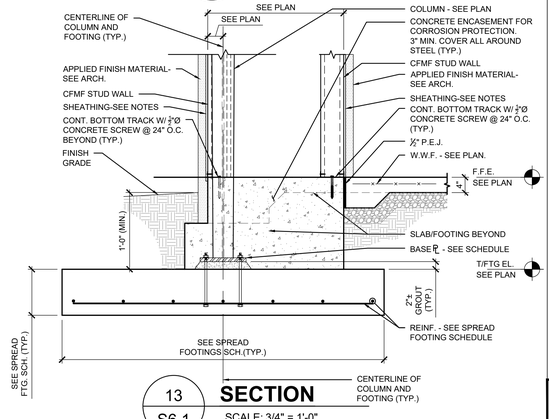
SCALE: 3/4" = 1'-0"



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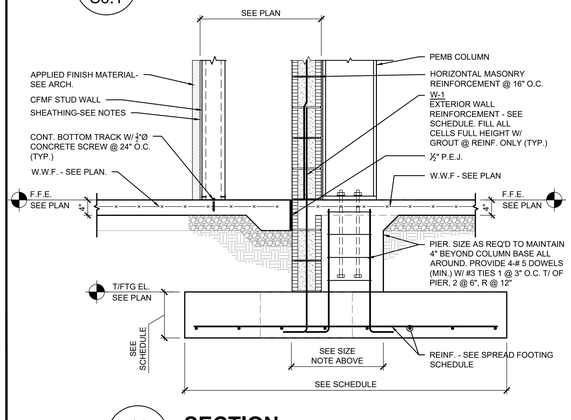

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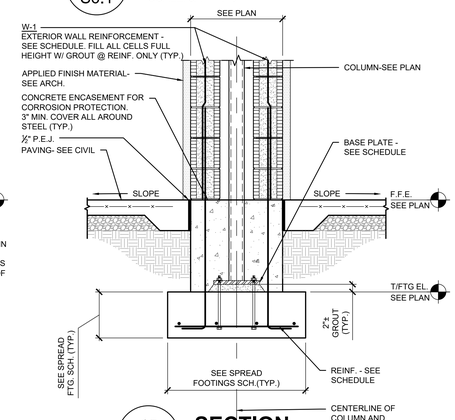

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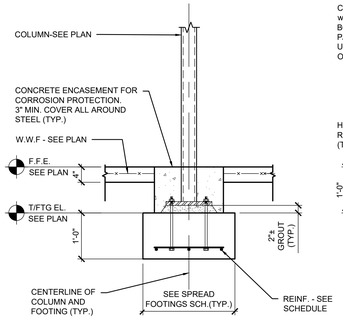
SCALE: 3/4" = 1'-0"



16 S6.1 **SECTION**
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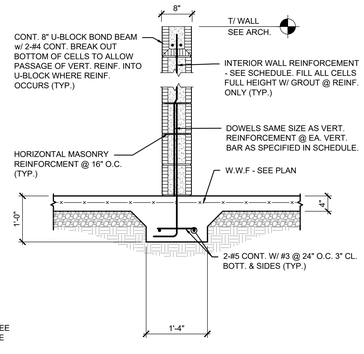

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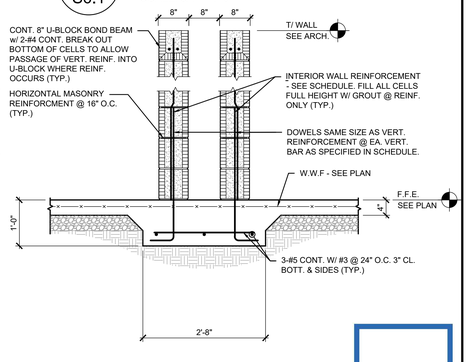

18 S6.1 **SECTION**
SCALE: 3/4" = 1'-0"

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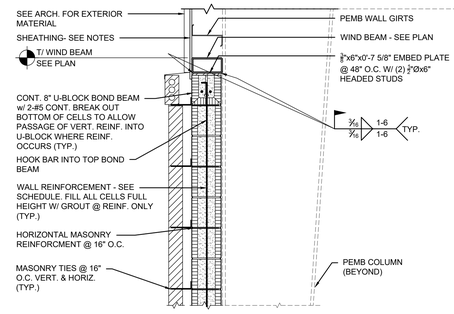
ALABAMA LICENSED
No. 38070
PROFESSIONAL ENGINEER
3.6.2024
JIMMY N. SANFORD

SHEET TITLE :	GYMNASIUM SECTIONS
MCKEE JOB # :	23.229
DRAWN BY :	CL
DATE:	3.6.24
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	S6.1



19 / S6.2 **SECTION**
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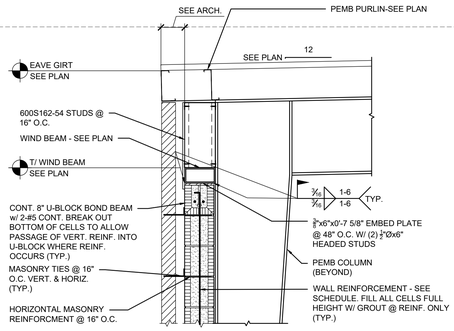

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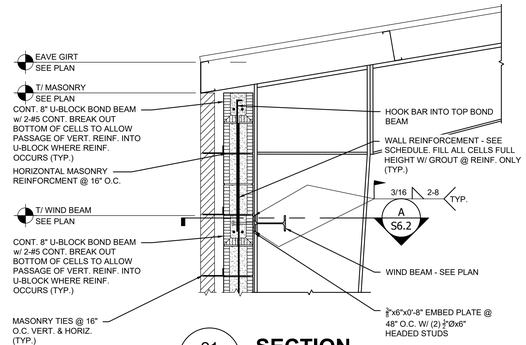

21 / S6.2 **SECTION**
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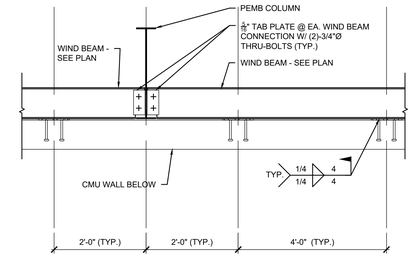

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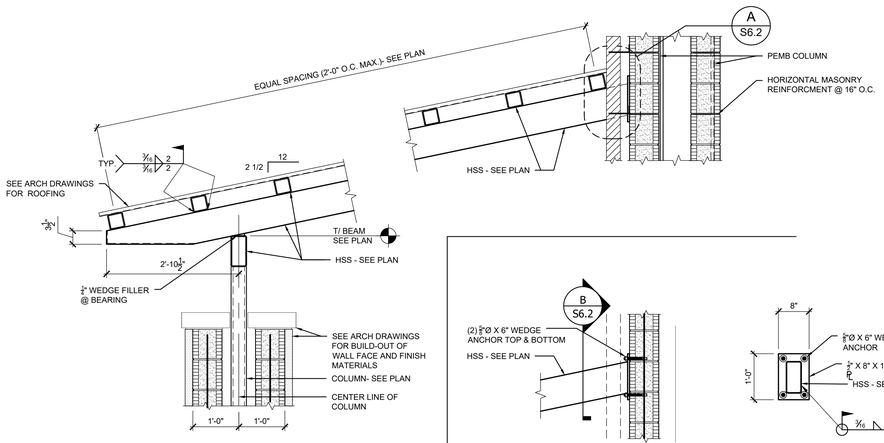
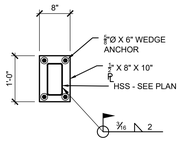


22 / S6.2 **SECTION**
SCALE: 3/4" = 1'-0"

A / S6.2 **SECTION**
SCALE: 3/4" = 1'-0"



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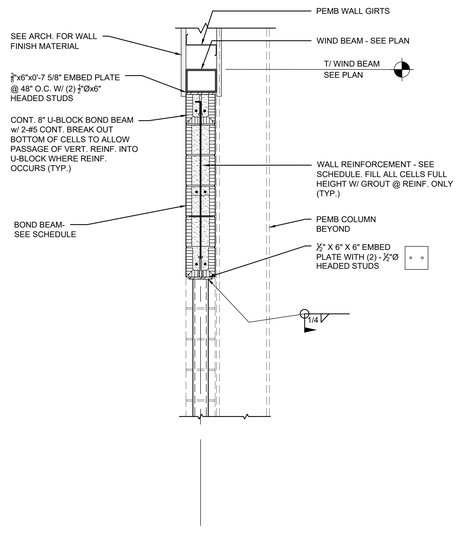

23 / S6.2 **SECTION**
SCALE: 3/4" = 1'-0"

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ALABAMA LICENSED No. 36070 PROFESSIONAL ENGINEER 3.6.2024 TIMOTHY W. SMIFORD

SHEET TITLE : GYMNASIUM SECTIONS

MCKEE JOB # : 23.229

DRAWN BY : CL

DATE: 3.6.24

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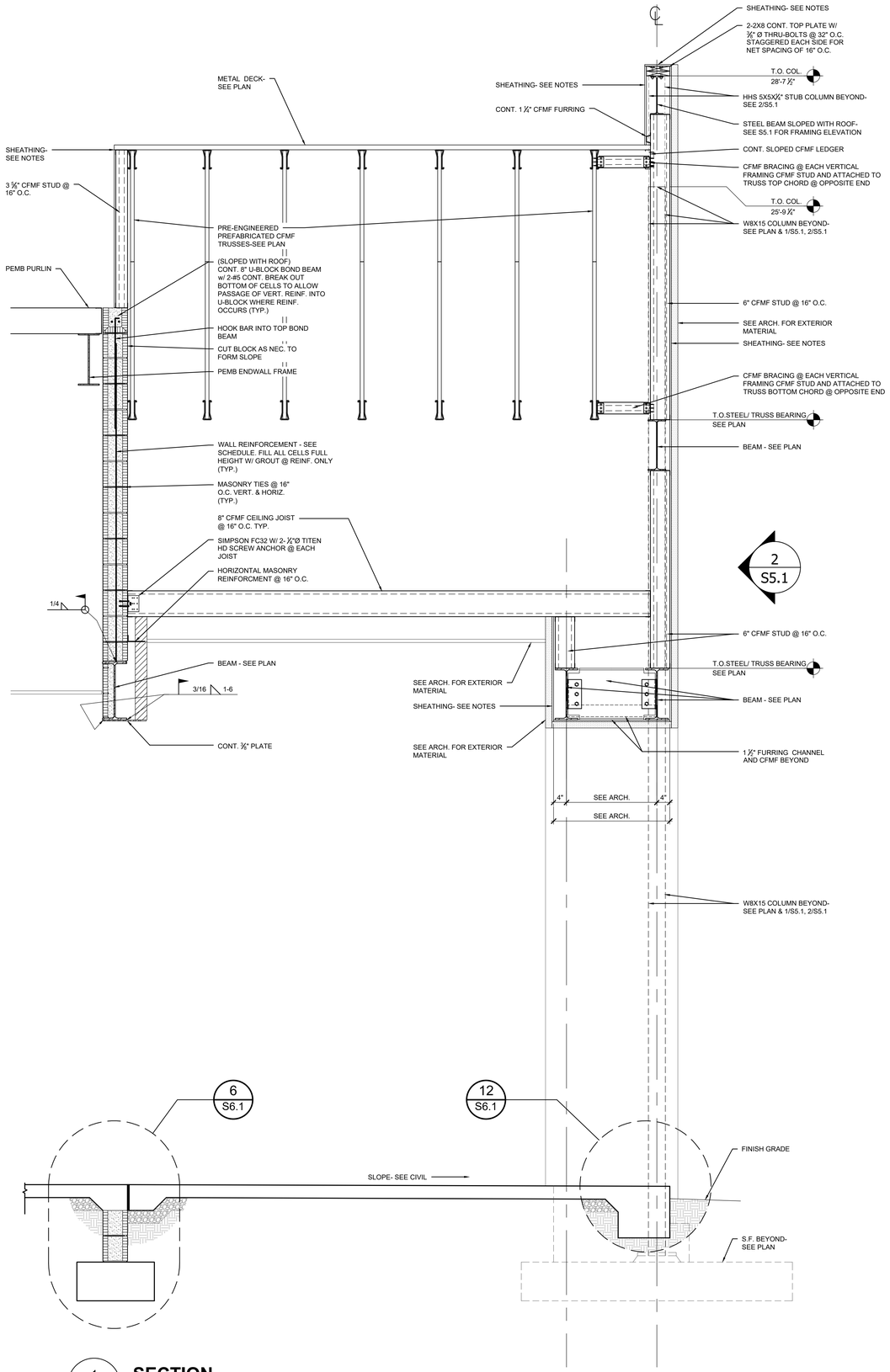
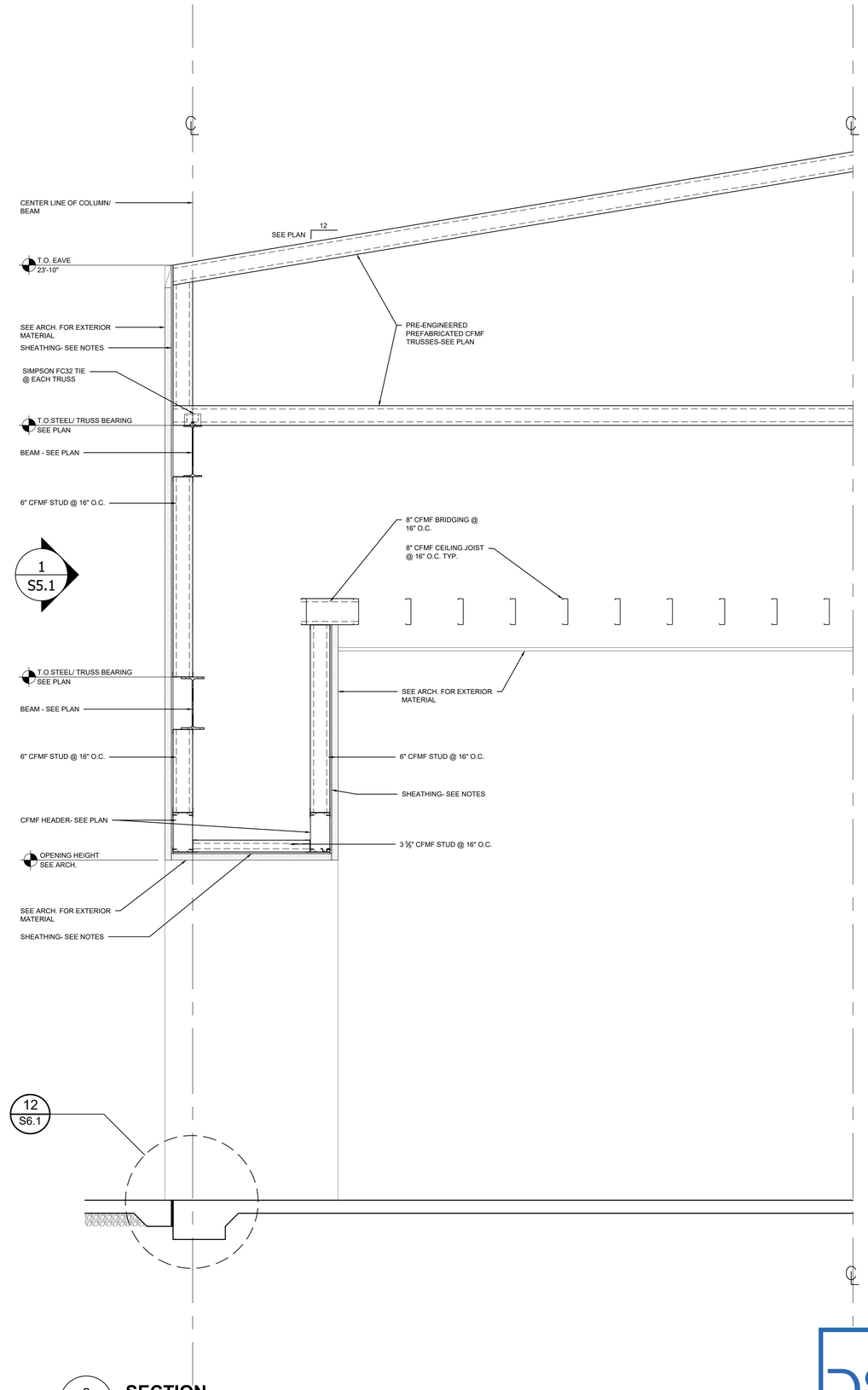
SHEET NO. : S6.2





1 S6.3 **SECTION**
SCALE: 3/4" = 1'-0"

2 S6.3 **SECTION**
SCALE: 3/4" = 1'-0"

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SHEET TITLE : GYMNASIUM SECTIONS

MCKEE JOB # : 23.229

DRAWN BY : CL

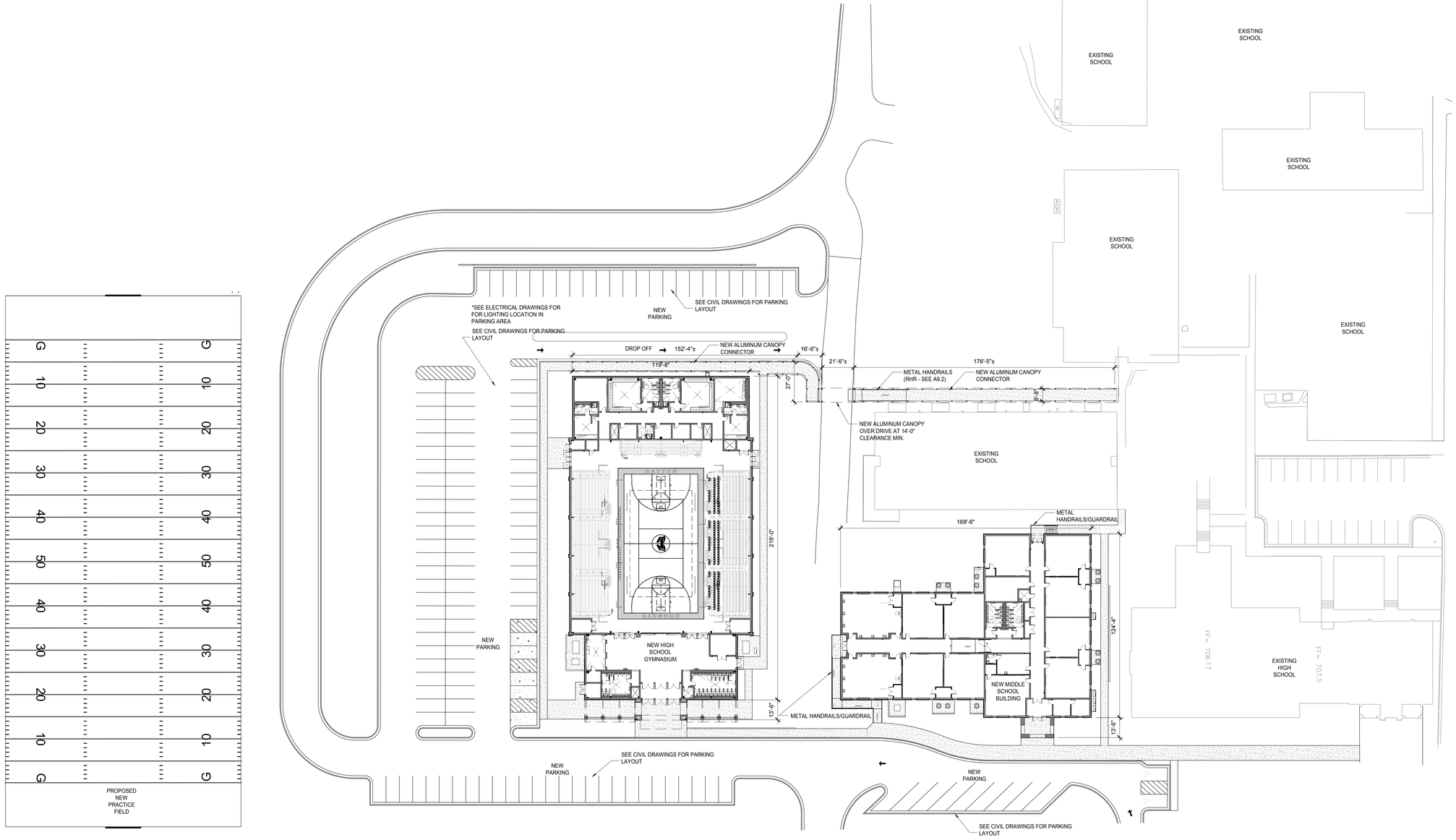
DATE: 3.6.24

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : S6.3



ARCHITECTURAL SITE PLAN

SCALE: 1" = 30'-0"

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FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

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McKEE and ASSOCIATES
ARCHITECTS, INC.
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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : ARCHITECTURAL SITE PLAN

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A0.1

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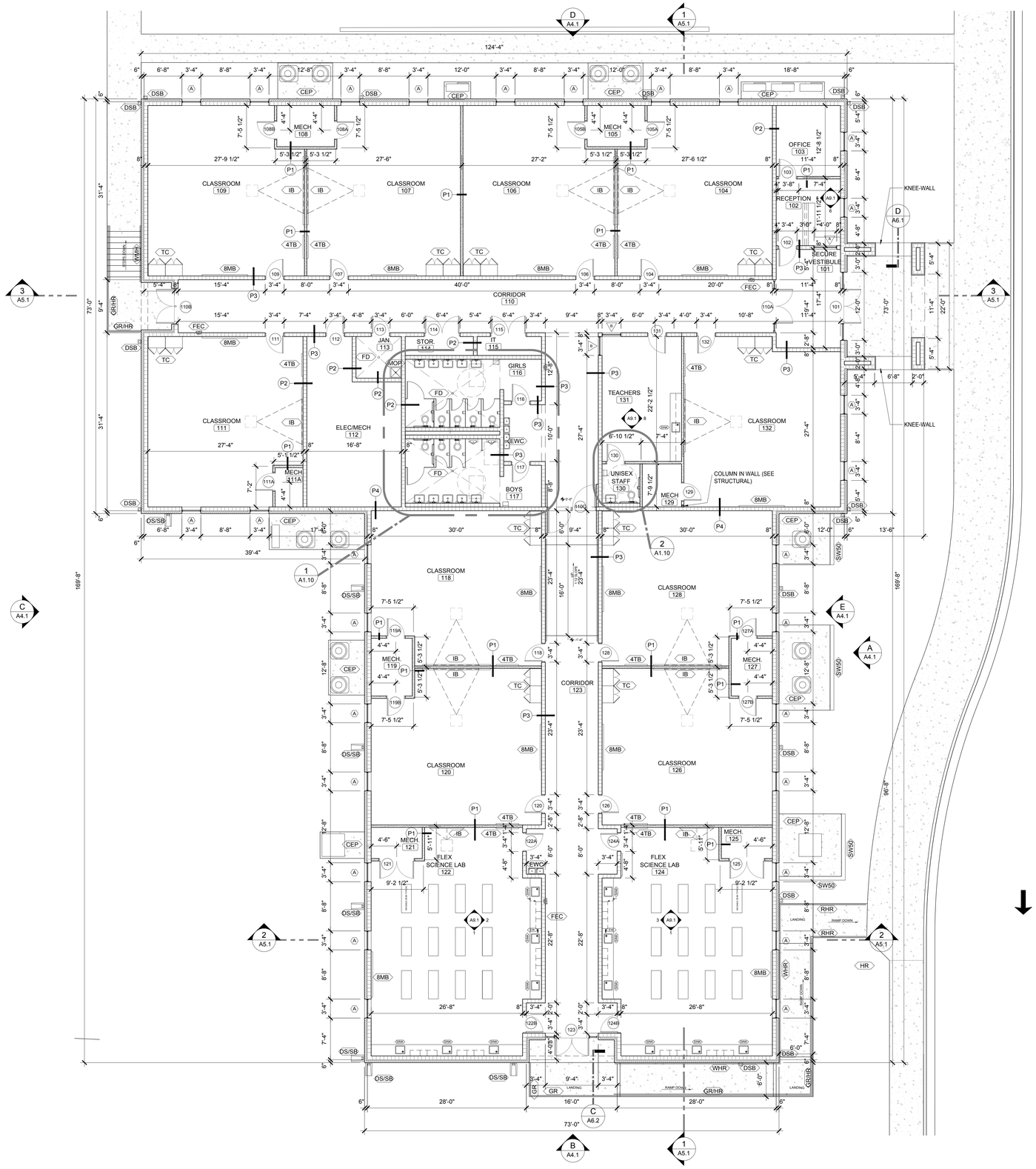
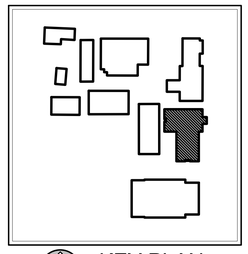
- Thursday, March 07, 2024 5:10:27 PM



FLOOR PLAN - CLASSROOM

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



KEY PLAN

SCALE: NTS

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
A---	SCHEDULED DOOR AND FRAME
-	SCHEDULED WINDOW UNIT
CORRIDOR ---	SCHEDULED ROOM NAME AND NUMBER
- AX.X	SECTION / DETAIL SYMBOL
- AX.X	BUILDING SECTION SYMBOL
- AX.X	ELEVATION ELEVATION SYMBOL
X AX.X X	INTERIOR ELEVATION SYMBOL
P-	WALL PARTITION TYPES (SEE SHEET A7.1)
CEP	CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)
CR	CARD READER LOCATION (SEE ELECTRICAL DETAIL)
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
OS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
EW	EYE WASH (SEE SPECS)
FD	FLOOR DRAIN (SEE PLUMBING)
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
GR/HR	METAL GUARDRAIL/HANDRAIL (SEE DETAIL A9.2)
IB	INTERACTIVE BOARD (BY OWNER)
MOP	MOP SINK (SEE PLUMBING DRAWINGS)
8MB	8'-0" MARKER BOARD
RHR	RAMP HANDRAIL (SEE DETAIL A9.2)
SW50	BRICK SCREEN WALL AND HEIGHT IN INCHES. (SEE DETAIL ON SHEET A9.2)
4TB	4'-0" TACK BOARD
TC	TEACHERS CABINET (SEE 9/A10.1)
WHR	WALL MOUNTED METAL HANDRAIL RAMP (SEE DETAIL A9.2)
WMH	WALL MOUNTED METAL HANDRAIL (SEE DETAIL A9.2)

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STATE OF ALABAMA
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MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : FLOOR PLANS - CLASSROOM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

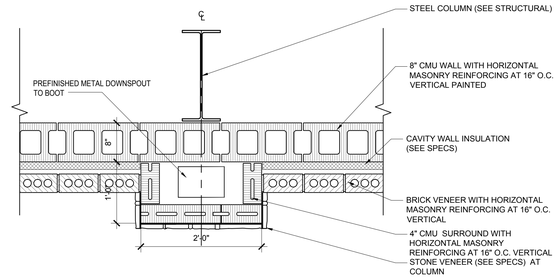
REVISED DATE:

SHEET NO. : A1.1

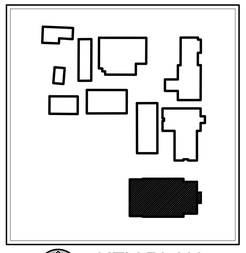
- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A1.1 Floor Plan - Classroom.dwg
- Friday, March 08, 2024 9:26:41 AM

FLOOR PLAN LEGEND

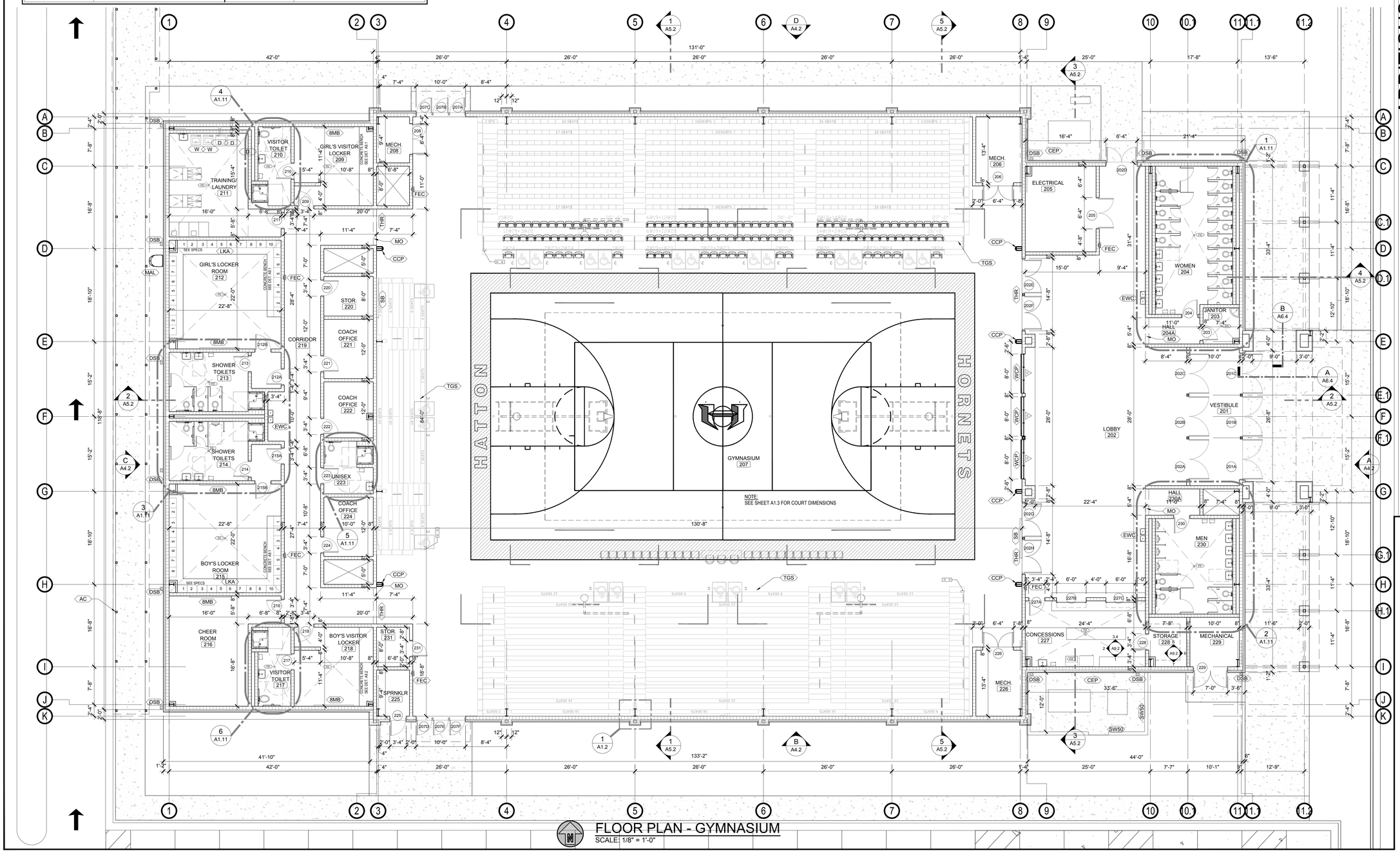
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A---	SCHEDULED DOOR AND FRAME	AC	ALUMINUM CANOPY (SEE DETAIL A9.2)
-	SCHEDULED WINDOW UNIT	CEP	CONCRETE EQUIPMENT PAD (SEE DETAIL A9.1)
CORRIDOR ---	SCHEDULED ROOM NAME AND NUMBER	DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
- AX.X	SECTION / DETAIL SYMBOL	EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
- AX.X	BUILDING SECTION SYMBOL	FD	FLOOR DRAIN (SEE PLUMBING)
- AX.X	ELEVATION ELEVATION SYMBOL	FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
X AX.X X	INTERIOR ELEVATION SYMBOL	ICE	ICE MACHINE (BY OWNER)
P-	WALL PARTITION TYPES (SEE SHEET A7.1)	LKA	ATHLETIC TEAM LOCKERS, 24" X 18" DEEP X 60" TALL, SINGLE TIER, & CONCRETE BENCH (SEE A9.1)
CCP	COLUMN CRASH PADS	MAL	METAL ACCESS LADDER TO ROOF (SEE DETAIL A/A3.2)
WCP	WALL CRASH PADS	4MB	4'-0" MARKER BOARD
		MO	MASONRY OPENING 7'-4" TALL
		MOP	MOP SINK (SEE PLUMBING DRAWINGS)
		W	WASHER (BY OWNER)
		D	DRYER (BY OWNER)
		SB	SCOREBOARD
		SW50	BRICK SCREEN WALL AND HEIGHT IN INCHES. (SEE DETAIL ON SHEET A9.2)
		TGS	TELESCOPIC GYMNASIUM SEATING
		THR	THRESHOLD TRANSITION



1 COLUMN/DOWNSPOUT PLAN DETAIL (TYP.)
SCALE: 1" = 1'-0"



KEY PLAN
SCALE: NTS



FLOOR PLAN - GYMNASIUM
SCALE: 1/8" = 1'-0"

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

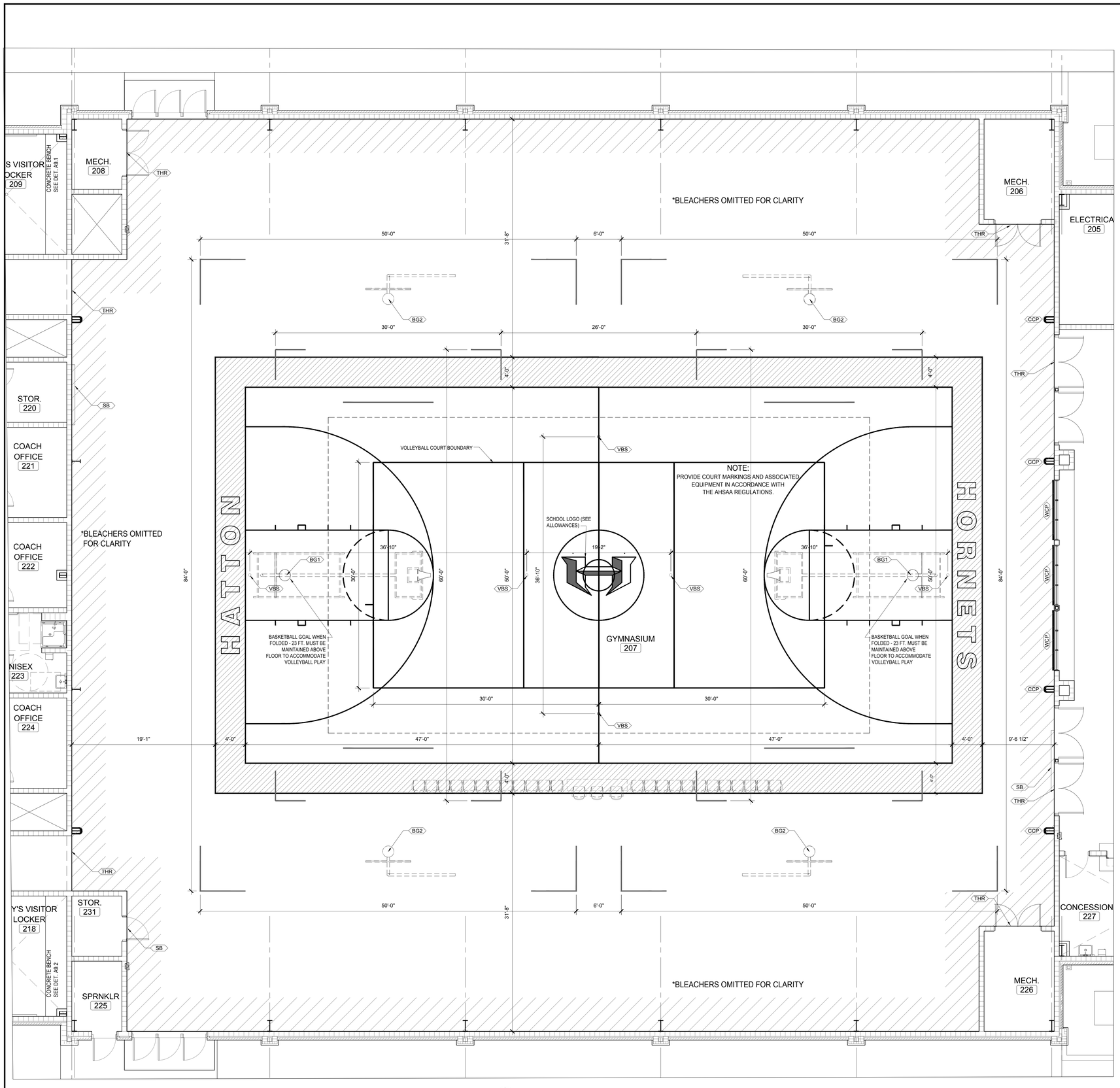
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	FLOOR PLANS - GYMNASIUM
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A1.2



COURT LAYOUT

SCALE: 3/16" = 1'-0"

COURT PLAN LEGEND

MARK	DESCRIPTION
BG1	BASKETBALL GOAL-TYPE 1-FOWARD FOLDING EQUIP WITH TIME CLOCK.
BG2	BASKETBALL GOAL-TYPE 2-SIDE FOLDING (SEE SPECS)
WCP	WALL CRASH PAD (SEE SPECS)
CCP	COLUMN CRASH PAD (SEE SPECS)
VBS	VOLLEYBALL STANDARD SLEEVE
SB	SCORE BOARD ABOVE (SEE SPECS)
THR	THRESHOLD TRANSITION
	LIMITS OF HARD WOOD COURT SEE STRUCTURAL FOR SLAB DEPRESSION REQUIRED.

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : COURT LAYOUT GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

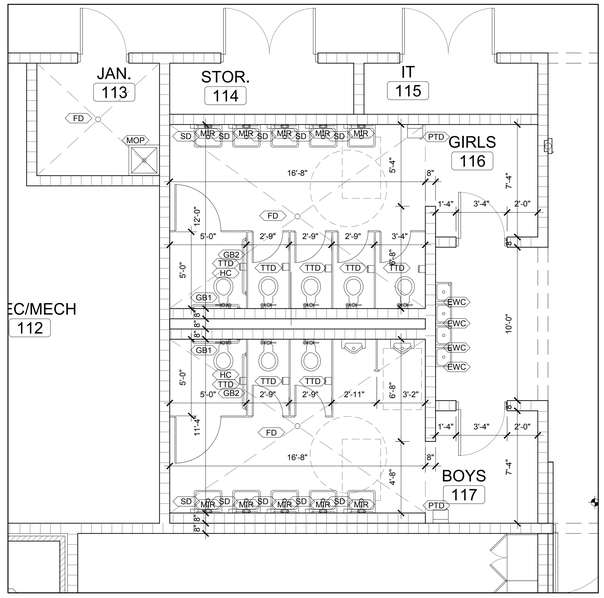
REVISED DATE:

REVISED DATE:

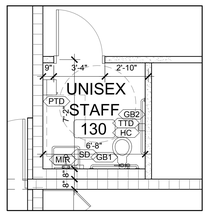
REVISED DATE:

SHEET NO. : A1.3

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A1.3 Court Plan.dwg
- Thursday, March 07, 2024 4:11:50 PM



1 ENLARGED PLAN - CLASSROOM BLDG.
SCALE: 1/4" = 1'-0"
BOYS 117/GIRLS 116



2 ENLARGED PLAN - CLASSROOM BLDG.
SCALE: 1/4" = 1'-0"
TOILET 130

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
CORRIDOR ----	SCHEDULED ROOM NAME AND NUMBER
P-	WALL PARTITION TYPES
X AX.X X	INTERIOR ELEVATION SYMBOL
EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
FD	FLOOR DRAIN (SEE PLUMBING)
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
MOP	MOP SINK (SEE PLUMBING DRAWINGS)

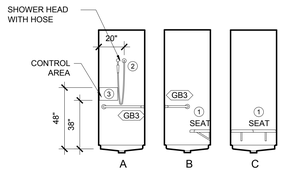
TOILET ACCESSORIES LEGEND

KEYNOTE	DESCRIPTION
TTD	TOILET TISSUE DISPENSER TO BE MOUNTED 8" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF (SEE SPECS)
PTD	PAPER TOWEL DISPENSER TO BE MOUNTED 48" OC AFF (SEE SPECS)
SD	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (SEE SPECS)
GB1	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB2	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB3	CORNER GRAB BAR AND IS TO BE 33"-36" AFF (SEE SPECS)
MIR	18" X 36" MIRROR WITH SHELF TO BE MOUNTED WITH THE BOTTOM EDGE 35" AFF AND THE TOP EDGE 71" AFF (SEE SPECS)
HC	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
PTD	PAPER TOWEL DISPENSOR TO BE MOUNTED 48" OC AFF (SEE SPECS)
FD	FLOOR DRAIN (SEE PLUMBING)

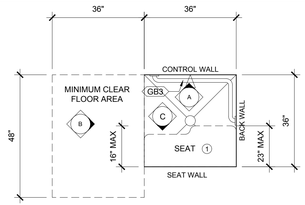
ACCESSIBLE SHOWER NOTES

1	A FOLDING SEAT SHALL BE PROVIDED IN EACH ACCESSIBLE SHOWER STALL AND SHALL BE MOUNTED 17"-19" FROM THE SHOWER FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE SHOWER STALL (SEE SPECS) SEAT SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE.
2	A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND-HELD SHOWER SHALL BE PROVIDED (SEE SPECS)
3	ALL CONTROLS, SHOWER HEADS ETC SHALL BE LOCATED ON OPPOSITE WALL FROM SHOWER SEAT (SEE ELEVATIONS FOR MOUNTING HEIGHTS)

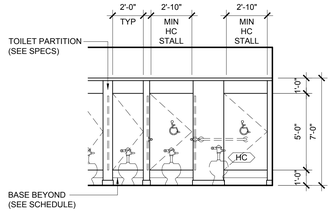
SHOWER AT GYMNASIUM



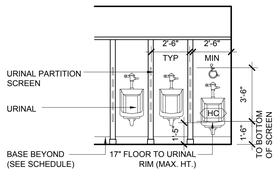
ACCESSIBLE SHOWER ELEVATIONS
SCALE: 1/4" - 1'-0"



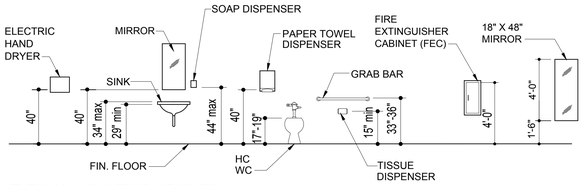
ACCESSIBLE SHOWER PLAN
SCALE: 1/2" - 1'-0"



TYPICAL TOILET SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"

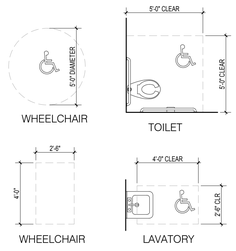


TYPICAL URINAL SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

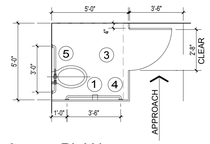
NOTE: GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 IN. MIN. and 36 IN. MAX. ABOVE FINISHED FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



TYPICAL HANDICAP CLEAR FLOOR SPACES
SCALE: 1/4"=1'-0"

KEY NOTES

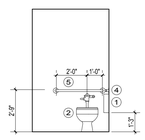
1. TOILET PAPER DISPENSER SHALL BE 7 IN. MIN. and 9 IN. MAX. IN FRONT OF WATER CLOSET MEASURED TO CENTERLINE OF DISPENSER. THE DISPENSER OUTLET SHALL BE 15 IN. MIN. and 48 IN. MAX. ABOVE FLOOR and NOT BE LOCATED BEHIND GRAB BARS.
2. WATER CLOSET HEIGHT TO BE 17 IN. TO 19 IN. MEASURED TO TOP OF SEAT.
3. WHEELCHAIR ACCESSIBLE STALLS SHALL BE 60" MINIMUM DEPTH AND WIDTH WITH 32" MINIMUM WIDTH DOOR THAT SWINGS OUT. CENTER LINE OF WATER CLOSET TO BE 16" TO 18" FROM NEAR WALL.
4. A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.
5. THE REAR WALL GRAB BAR SHALL BE 24 IN. LONG MIN., CENTERED ON THE WATER CLOSET. WHERE SPACE PERMITS, THE BAR SHALL BE 36 IN. LONG MIN. WITH THE ADDITIONAL LENGTH PROVIDED ON THE TRANSFER SIDE OF THE WATER CLOSET.
6. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE (TOP) AT THE LOCATION SHOWN AND DOES NOT OBSTRUCT THE CLEAR FLOOR SPACE.
7. COAT HOOKS PROVIDED WITHIN TOILET ROOMS SHALL BE 48 " MAX. ABOVE THE FLOOR. WHERE PROVIDED A FOLD DOWN SHELF SHALL BE 40" MIN. and 48" MAX. ABOVE FLOOR.
8. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



PLAN
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"

NOTE: THE CENTERLINE OF THE WATER CLOSET SHALL BE 16" MIN. AND 18" MAX. FROM THE SIDE WALL OR PARTITION.

DOORWAYS SHALL HAVE A CLEAR OPENING OF 32" MINIMUM. CLEAR OPENING OF DOORWAYS WITH SWING DOORS SHALL BE MEASURED BETWEEN FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES.



ELEVATION
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : ENLARGED PLANS - CLASSROOM BUILDING AND BATHROOM DETAILS

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

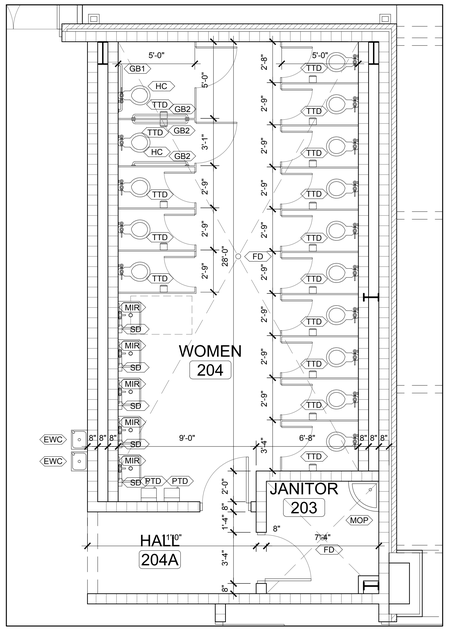
REVISED DATE:

REVISED DATE:

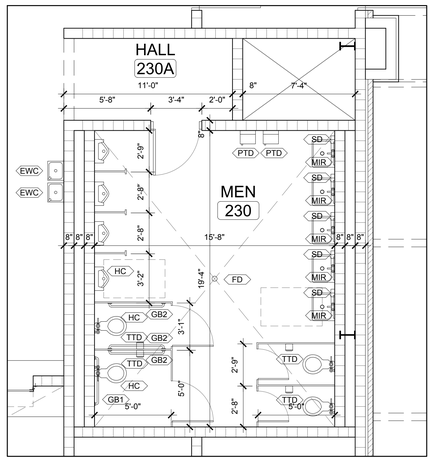
REVISED DATE:

SHEET NO. : A1.10

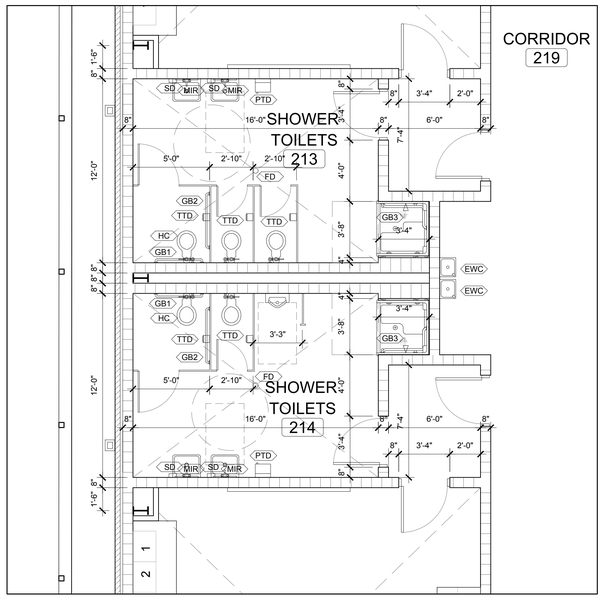
- /Users/kddarchitect/McKEE ASSOCIATES/Halton HS Addition 23-229/A1.10 Enlarged Plans.dwg
- Thursday, March 07, 2024 4:44:23 PM



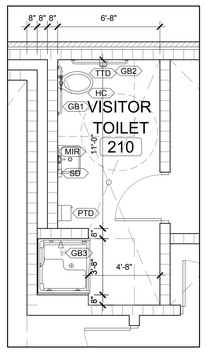
1 ENLARGED PLAN - GYMNASIUM
SCALE: 1/4" = 1'-0"
WOMEN 204



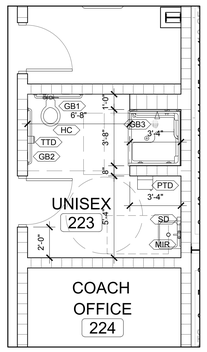
2 ENLARGED PLAN - GYMNASIUM
SCALE: 1/4" = 1'-0"
MEN 230



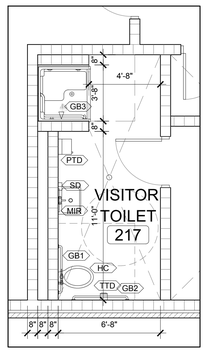
3 ENLARGED PLAN - GYMNASIUM
SCALE: 1/4" = 1'-0"
SHWR 213/SHWR 214



4 ENLARGED PLAN
SCALE: 1/4" = 1'-0"
TOILET 210



5 ENLARGED PLAN
SCALE: 1/4" = 1'-0"
UNISEX 223



6 ENLARGED PLAN
SCALE: 1/4" = 1'-0"
TOILET 217

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
CORRIDOR ----	SCHEDULED ROOM NAME AND NUMBER
P-	WALL PARTITION TYPES
X A.X X X X	INTERIOR ELEVATION SYMBOL
EWC	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
FD	FLOOR DRAIN (SEE PLUMBING)
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
MOP	MOP SINK (SEE PLUMBING DRAWINGS)

TOILET ACCESSORIES LEGEND

KEYNOTE	DESCRIPTION
TTD	TOILET TISSUE DISPENSER TO BE MOUNTED 8" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF (SEE SPECS)
PTD	PAPER TOWEL DISPENSER TO BE MOUNTED 48" OC AFF (SEE SPECS)
SD	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (SEE SPECS)
GB1	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB2	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB3	CORNER GRAB BAR AND IS TO BE 33"-36" AFF (SEE SPECS)
MIR	18" X 36" MIRROR WITH SHELF TO BE MOUNTED WITH THE BOTTOM EDGE 35" AFF AND THE TOP EDGE 71" AFF (SEE SPECS)
HC	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
PTD	PAPER TOWEL DISPENSOR TO BE MOUNTED 48" OC AFF (SEE SPECS)
FD	FLOOR DRAIN (SEE PLUMBING)

*NOTE:
-SEE SHEET A1.10 FOR RESTROOM DETAILS

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, III
No. 1082
MONTGOMERY, ALA
REGISTERED ARCHITECT

SHEET TITLE : ENLARGED PLANS - GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

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REVISED DATE:

SHEET NO. : A1.11

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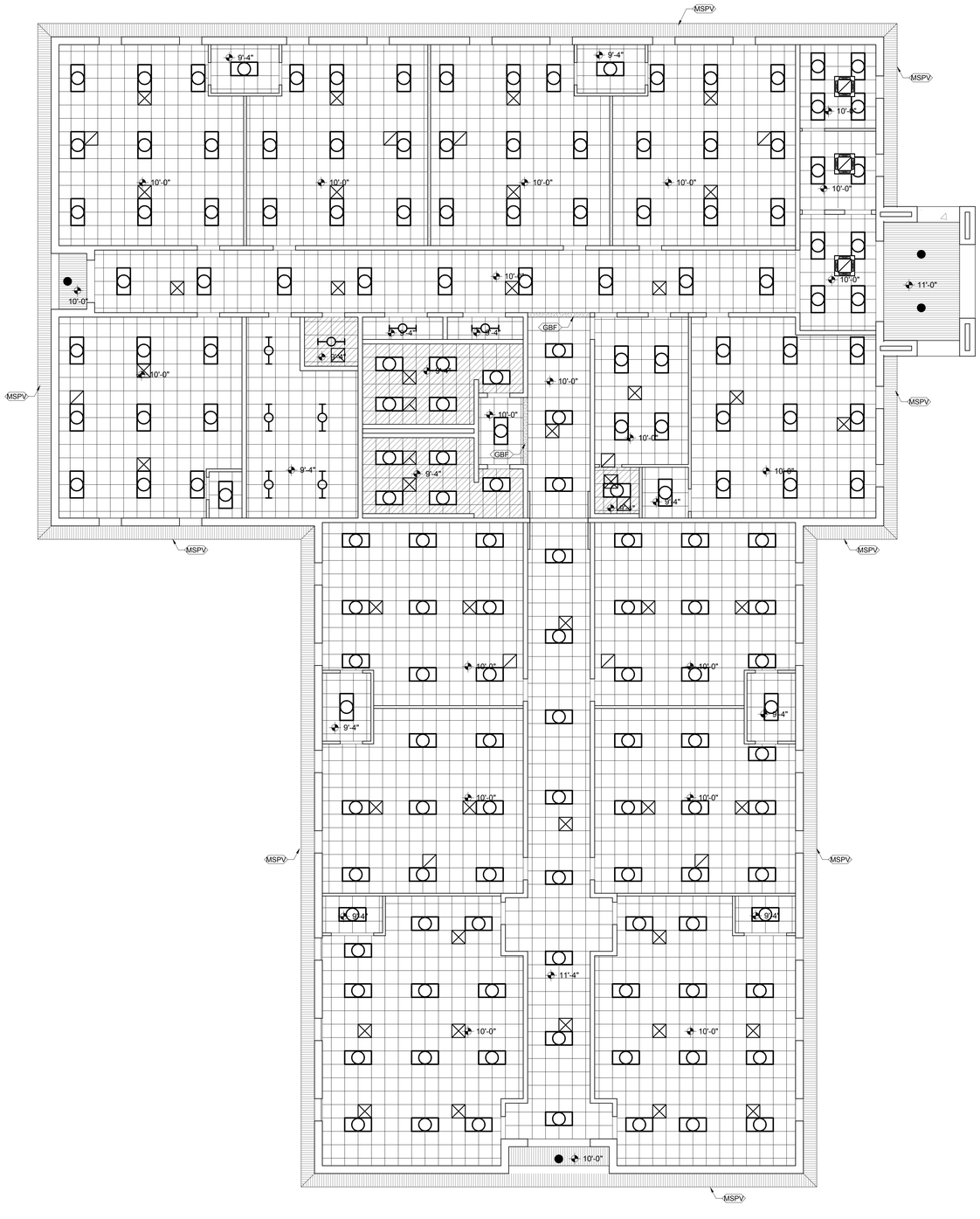
- Friday, March 08, 2024 1:37:14 PM



REFLECTED CEILING PLAN - CLASSROOM

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

REFLECTED CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
	2'x2' LAY-IN ACOUSTICAL CEILING
	2'x2' VINYL CLAD LAY-IN ACOUSTICAL CEILING
	GYPSUM BOARD (SUSPENDED AS REQUIRED)
	MOISTURE RESISTANT GYPSUM BOARD (SUSPENDED AS REQUIRED)
	METAL SOFFIT PANELS (SUSPENDED AS REQUIRED)
	2'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	2'x2' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	1'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	1'x4' SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL)
	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
	EXHAUST FAN GRILLE (SEE MECHANICAL)
	CASSETTE HEAT PUMP (SEE MECHANICAL)
GBP	GYPSUM BOARD - PAINT
GBF	GYPSUM BOARD FURRING TO 9'-0" A.F.F.
MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB	MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
MSPV	METAL SOFFIT PANELS - VENTED
SLP	STEEL LINTEL - PAINT

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : REFLECTED CEILING PLAN CLASSROOM BUILDING

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

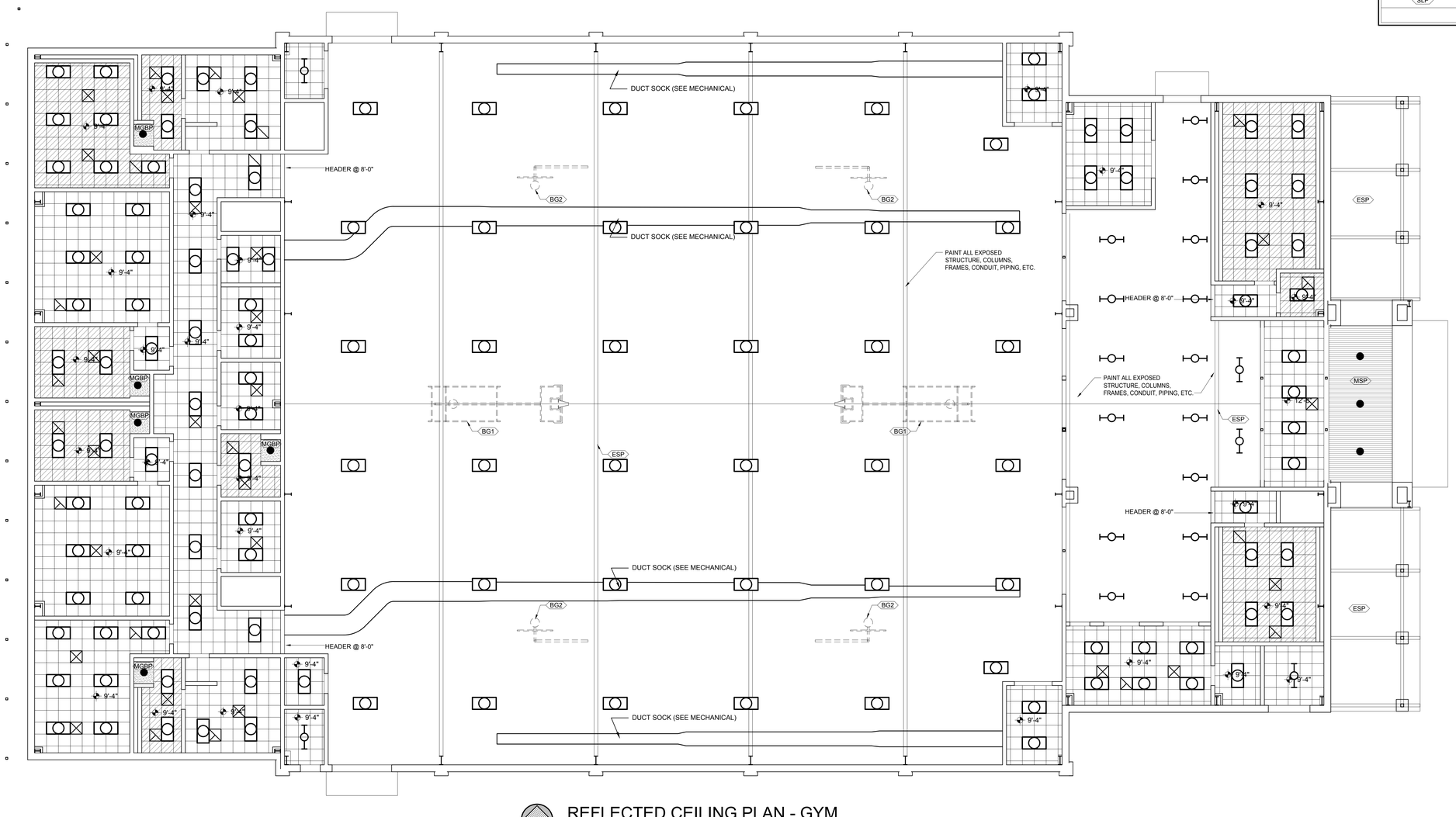
REVISED DATE:

SHEET NO. : A2.1

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A2.1 RCP Plan - Classroom.dwg
- Thursday, March 07, 2024 4:10:21 PM

REFLECTED CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
	2'x2' LAY-IN ACOUSTICAL CEILING
	2'x2' VINYL CLAD LAY-IN ACOUSTICAL CEILING
	2'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	2'x2' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	1'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	1'x4' SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL)
	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
	EXHAUST FAN GRILLE (SEE MECHANICAL)
	CASSETTE HEAT PUMP (SEE MECHANICAL)
EDP	EXPOSED DUCTWORK - PAINT
ED	EXPOSED DUCTWORK - NO PAINT
ES	EXPOSED STRUCTURE - NO PAINT
ESP	EXPOSED STRUCTURE - PAINT
GB	GYPSUM BOARD - NO PAINT
GBP	GYPSUM BOARD - PAINT
MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB	MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
MSP	METAL SOFFIT PANELS - NON VENTED
SLP	STEEL LINTEL - PAINT



REFLECTED CEILING PLAN - GYM

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

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

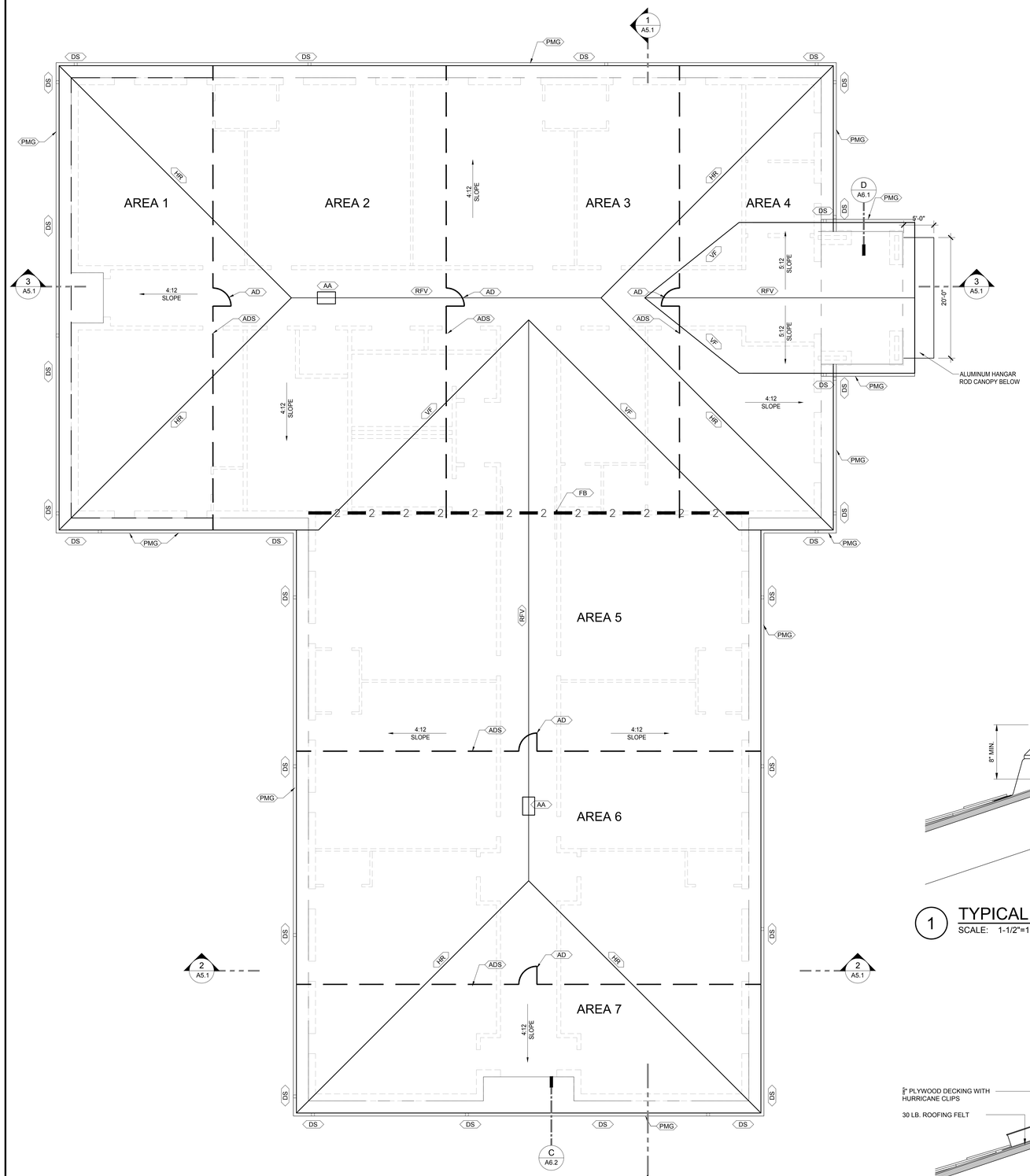
McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	REFLECTED CEILING PLAN GYMNASIUM
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A2.2

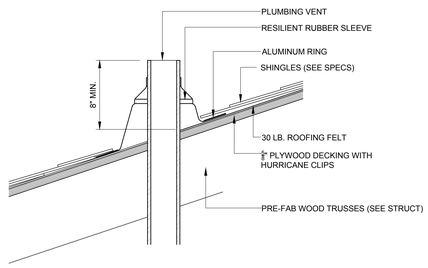
- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A2.2 RCP Plan - Gymnasium.dwg
- Thursday, March 07, 2024 4:10:23 PM



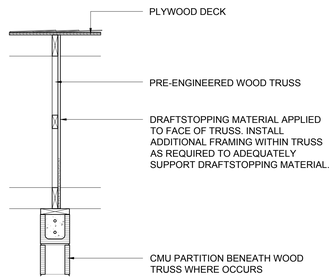
ROOF PLAN
SCALE: 1/8" = 1'-0"

ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
	SHINGLES
X / A3.X	DETAIL SYMBOL
AA	ATTIC ACCESS (SEE SPECS)
AC	ALUMINUM CANOPY
AD	ATTIC DRAFTSTOP ACCESS DOOR (SEE 4/A3.1)
ADS	ATTIC DRAFTSTOP (SEE 3/A3.1)
DS	PREFINISHED METAL DOWNSPOUT
EF	EXHAUST FAN
FB	FIRE BARRIER
GFV	GAS FLUE VENT
GV	GRAVITY VENT
HR	HIP RIDGE FLASHING
PME	PREFINISHED METAL EAVE TRIM
PMF	PREFINISHED METAL FASCIA
PMG	PREFINISHED METAL GUTTER
PV	PLUMBING VENT
RFV	RIDGE FLASHING - VENTED
SA	SUSPENDED ALUMINUM AWNING
VF	VALLEY FLASHING



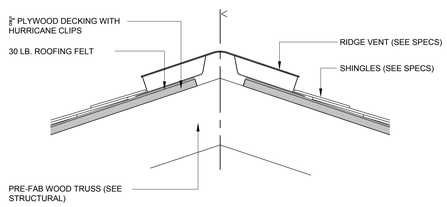
1 TYPICAL PLUMBING VENT DETAIL
SCALE: 1-1/2"=1'-0"



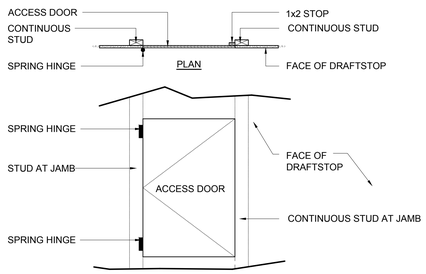
DRAFTSTOPING CONSTRUCTION NOTE:
DRAFTSTOPPING MATERIALS SHALL BE NOT LESS THAN 0.5" (12.7 mm) GYPSUM BOARD, .375" PLYWOOD OR .375" (9.5 mm) PARTICLEBOARD ADEQUATELY SUPPORTED.

3 ATTIC DRAFTSTOP DETAIL
SCALE: 3/4"=1'-0"

DRAFTSTOPPING (PER 718.4)



2 RIDGE VENT DETAIL
SCALE: 1-1/2"=1'-0"



NOTE:
INSTALL 2' X 4' ACCESS DOOR WHERE SHOWN - DOOR SHALL BE 5/8" PLYWD. W/ SPRING HINGES

ELEVATION

4 ACCESS DOOR AT ATTIC DRAFTSTOP
SCALE: 3/4"=1'-0"

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

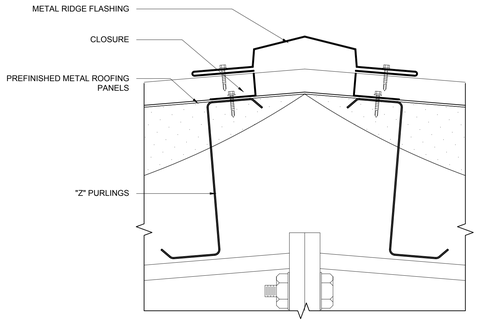
McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

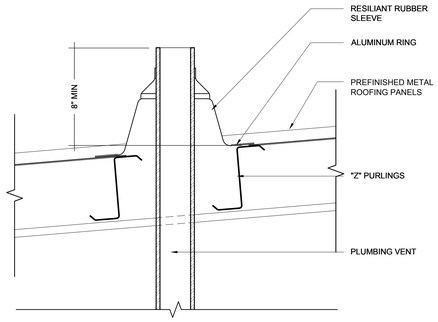
SHEET TITLE :	ROOF PLAN - CLASSROOM
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A3.1

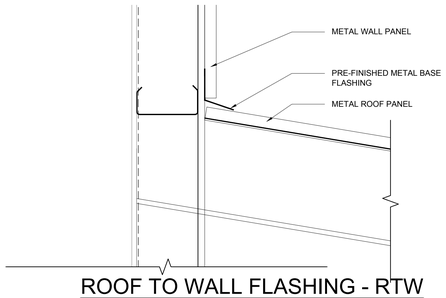
- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A3.1 Roof Plan - Classroom.dwg
- Thursday, March 07, 2024 4:24:11 PM



RIDGE VENT DETAIL - GYM
SCALE: 3" - 1'-0"



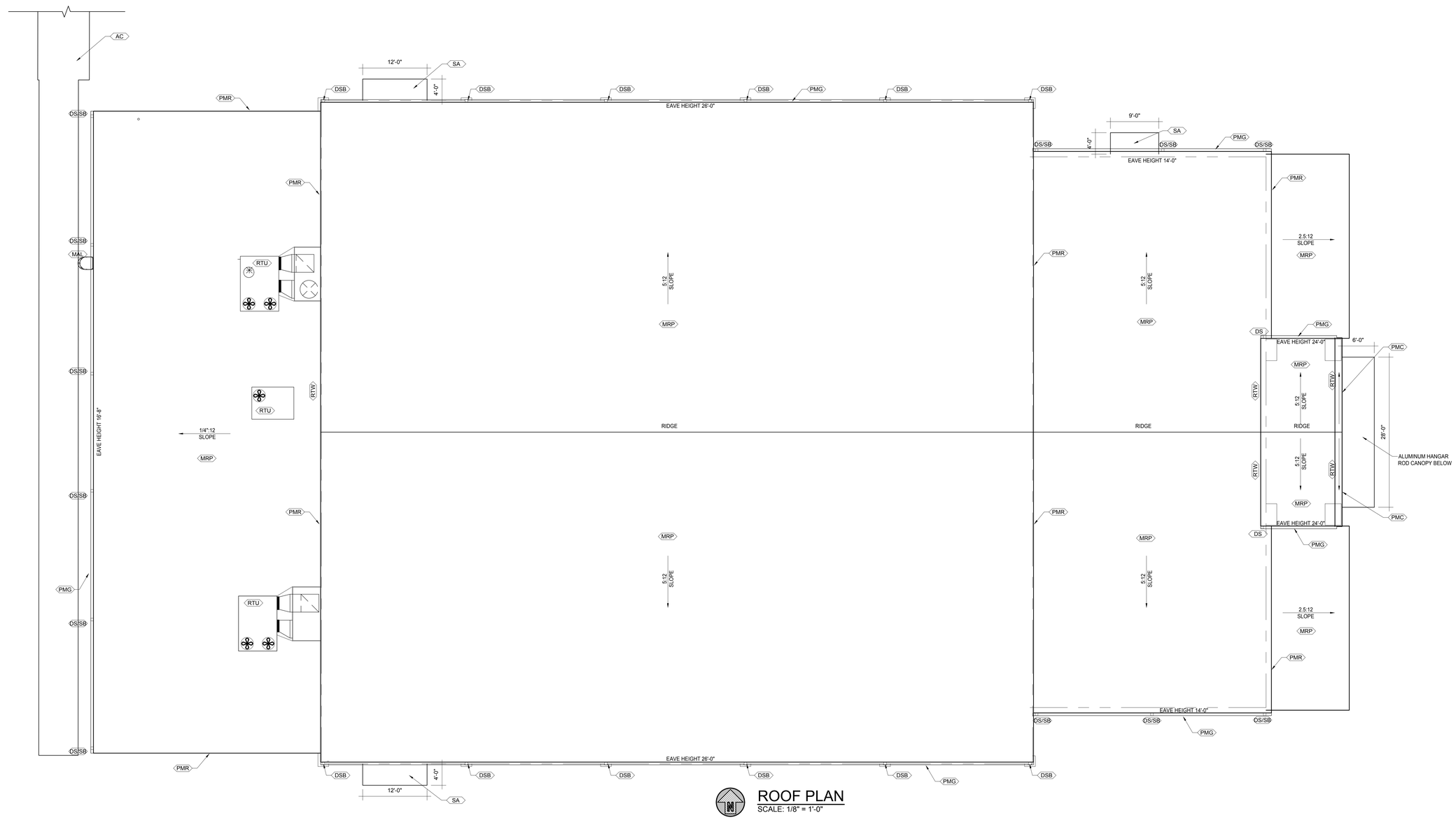
TYPICAL PLUMBING VENT DETAIL - GYM
SCALE: 1-1/2" - 1'-0"



ROOF TO WALL FLASHING - RTW
SCALE: 1-1/2" - 1'-0"

ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
MRP	METAL ROOF PANELS
X / A3.X	DETAIL SYMBOL
AC	ALUMINUM CANOPY (SEE DETAIL A9.1)
CSC	CAST STONE COPING
DS	PREFINISHED METAL DOWNSPOUT
OS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
EF	EXHAUST FAN
GFV	GAS FLUE VENT
GV	GRAVITY VENT
MAL	METAL ACCES LADDER TO ROOF (SEE DETAIL A3.3)
PMC	PREFINISHED METAL COPING
PME	PREFINISHED METAL EAVE TRIM
PMF	PREFINISHED METAL FASCIA
PMG	PREFINISHED METAL GUTTER
PMR	PREFINISHED METAL RAKE TRIM
PV	PLUMBING VENT
RTW	CONTINUOUS ROOF TO WALL FLASHING
RTU	ROOF TOP UNIT (SEE MECHANICAL)
SA	SUSPENDED ALUMINUM AWNING (SEE DETAIL A3.3)



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

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : ROOF PLAN - GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

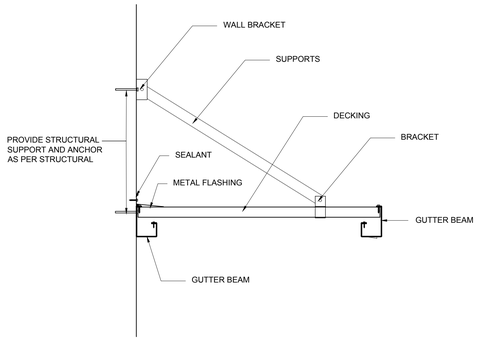
REVISED DATE:

REVISED DATE:

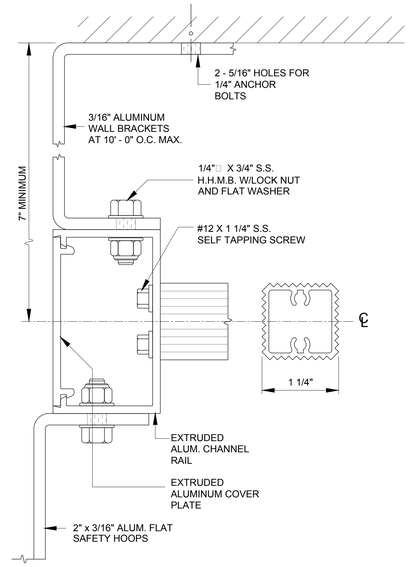
REVISED DATE:

SHEET NO. : A3.2

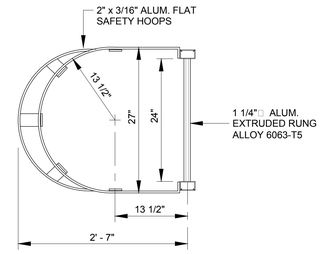
- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A3.2 Roof Plan - Gymnasium.dwg
- Thursday, March 07, 2024 4:57:16 PM



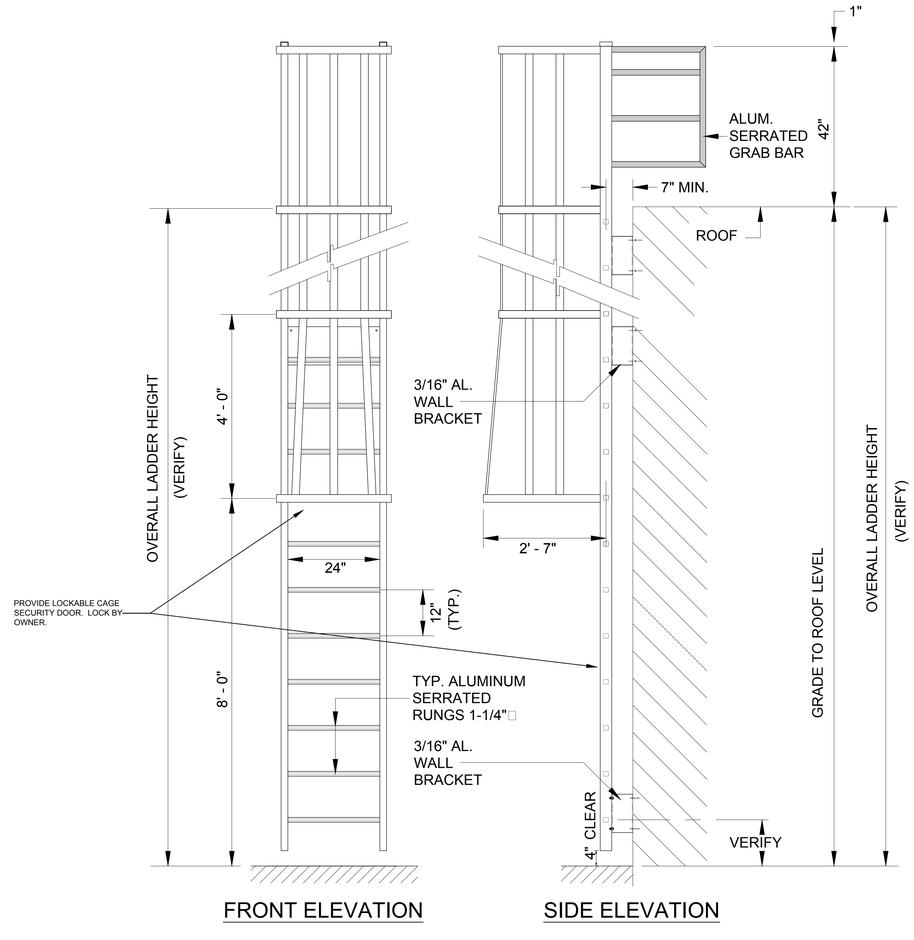
1 DETAIL SUSPENDED AWING (SA)
SCALE: 1 1/2"=1'-0"



B WALL BRACKET DETAIL
SCALE: FULL SIZE



C CAGE LADDER SECTION - PLAN VIEW
SCALE: 1"=1'-0"



LADDER "AL" IS SIMILAR, WITHOUT THE CAGE.

A CAGE LADDER ELEVATIONS
SCALE: 3/4"=1'-0"

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

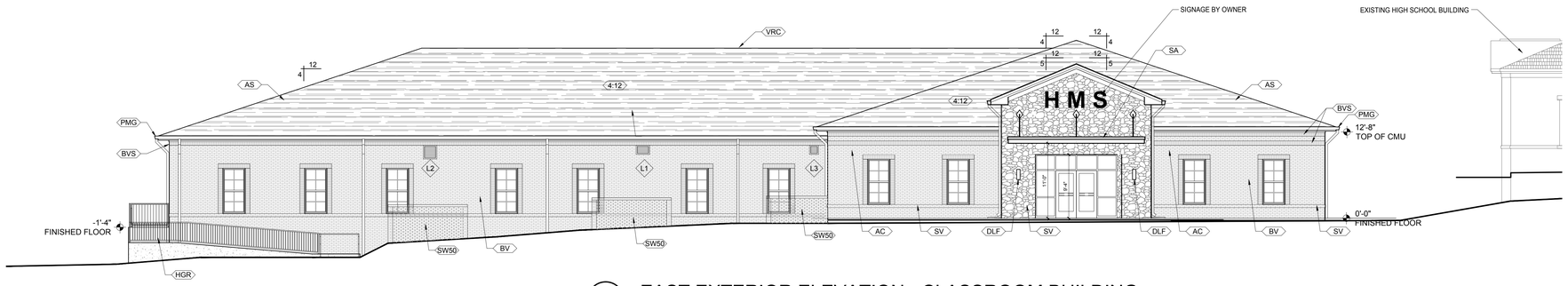
McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

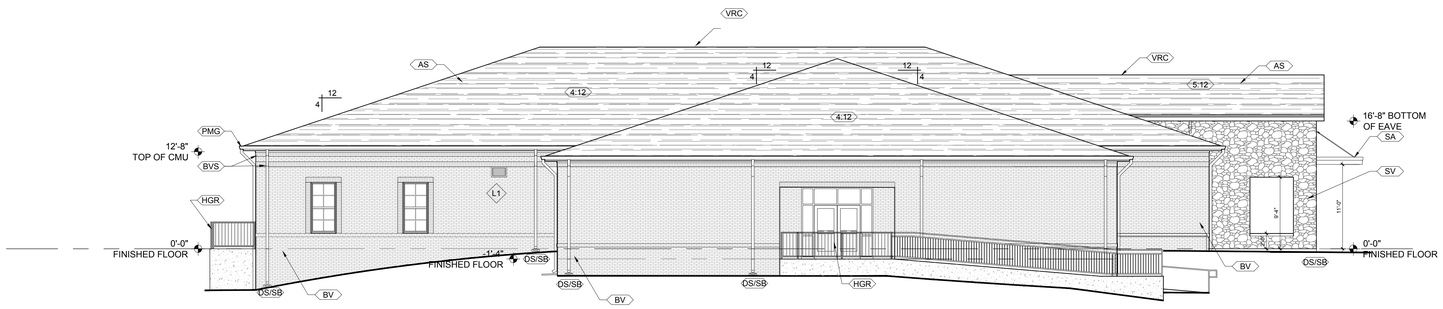
SHEET TITLE :	ROOF DETAILS
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A3.3

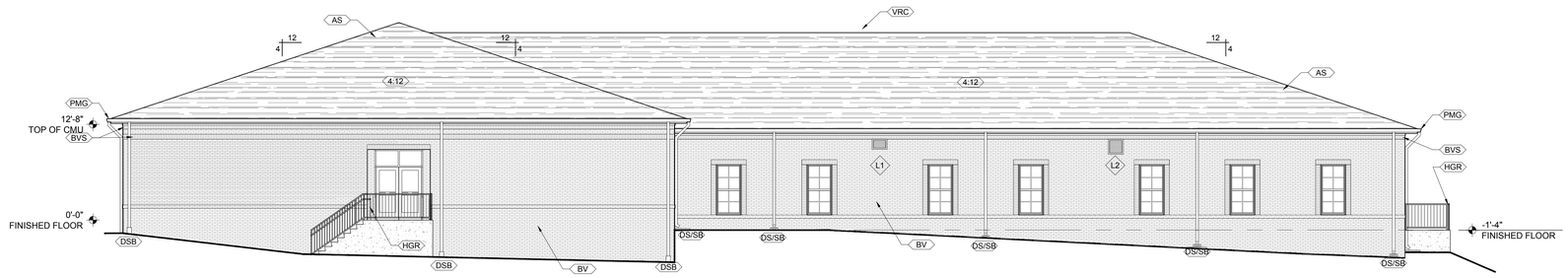
- /Users/kddarchitect/McKEE ASSOCIATES/Halton HS Addition 23-229/A3.3 Roof Details and ladder.dwg
- Thursday, March 07, 2024 4:24:16 PM



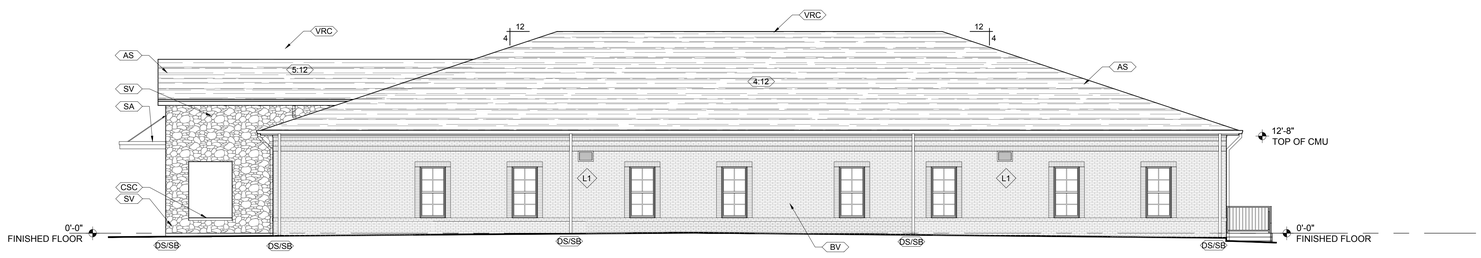
A EAST EXTERIOR ELEVATION - CLASSROOM BUILDING
SCALE: 1/8" = 1'-0"



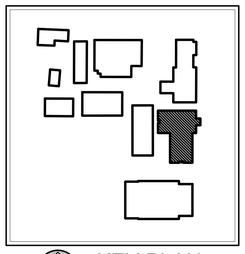
B SOUTH EXTERIOR ELEVATION - CLASSROOM BUILDING
SCALE: 1/8" = 1'-0"



C WEST EXTERIOR ELEVATION - CLASSROOM BUILDING
SCALE: 1/8" = 1'-0"



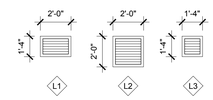
D NORTH EXTERIOR ELEVATION - CLASSROOM BUILDING
SCALE: 1/8" = 1'-0"



KEY PLAN
SCALE: NTS

EXTERIOR ELEVATION LEGEND

SYMBOL	DESCRIPTION
AX.X	BUILDING SECTION SYMBOL
L1	SCHEDULED LOUVER TYPES
AC	ALUMINUM CANOPY
AS	ASPHALT SHINGLES (SEE SPECS)
BV	BRICK VENEER
BVS	BRICK VENEER - SOLDIER COURSE
BVR	BRICK VENEER - ROWLOCK COURSE
CSC	CAST STONE COPING
DLF	DECORATIVE LIGHT FIXTURE (SEE ELECTRICAL)
DS	PREFINISHED METAL DOWNSPOUT
OS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
GR	METAL GUARDRAIL - PAINT
HGR	METAL HANDRAIL / GUARDRAIL - PAINT
MCJ	MASONRY CONTROL JOINT LOCATIONS
PME	PREFINISHED METAL EAVE TRIM
PMF	PREFINISHED METAL FASCIA
PMG	PREFINISHED METAL GUTTER
PB	PIPE BOLLARD (SEE DETAIL A9.1)
SA	SUSPENDED ALUMINUM AWNING
SV	STONE VENEER
SW50	BRICK SCREEN WALL AND HEIGHT IN INCHES. (SEE DETAIL ON SHEET A9.2)
VRC	VENTILATED RIDGE CAP
WHR	WALL MOUNTED METAL HANDRAIL - PAINT



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

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : EXTERIOR ELEVATIONS CLASSROOM BUILDING

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

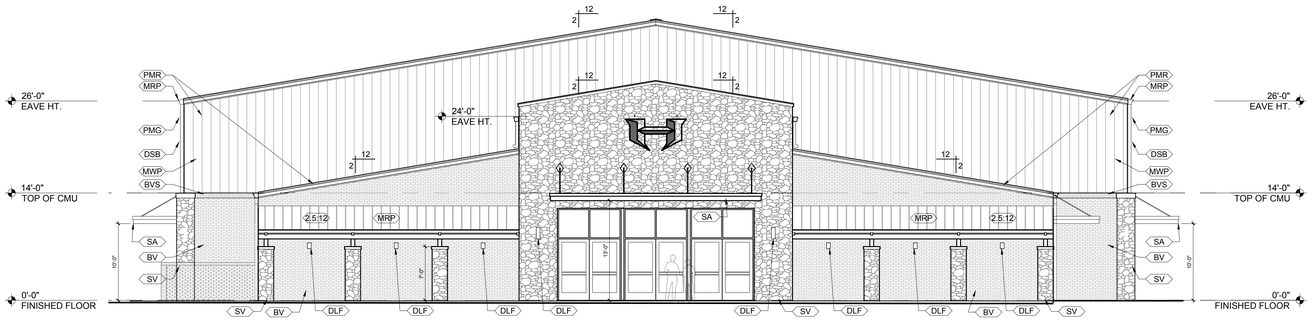
REVISED DATE:

REVISED DATE:

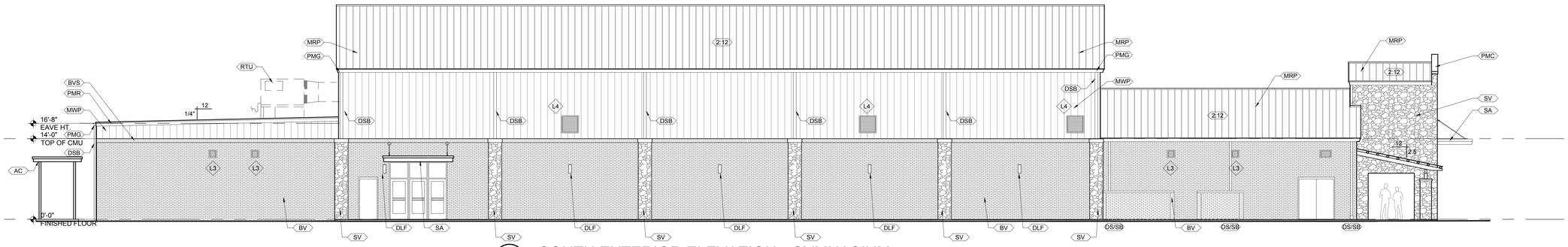
REVISED DATE:

SHEET NO. : A4.1

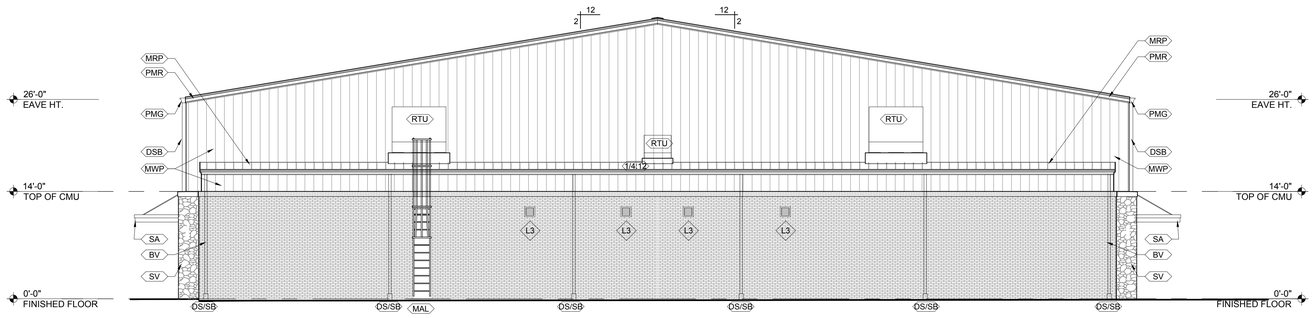
- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A4.1 Exterior Elevations - Classroom.dwg
- Friday, March 08, 2024 8:50:01 AM



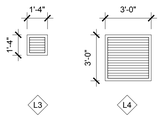
A EAST EXTERIOR ELEVATION - GYMNASIUM
SCALE: 1/8" = 1'-0"



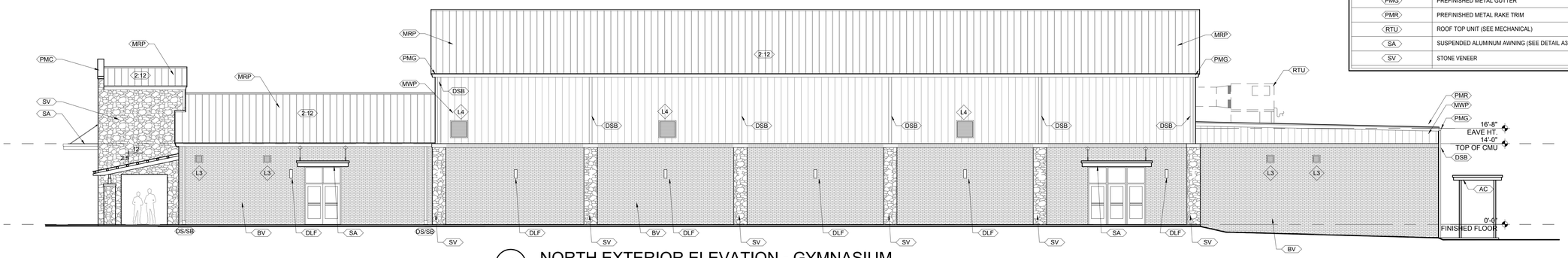
B SOUTH EXTERIOR ELEVATION - GYMNASIUM
SCALE: 1/8" = 1'-0"



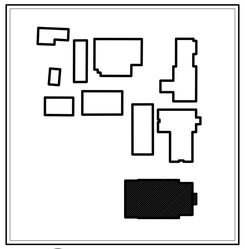
C WEST EXTERIOR ELEVATION - GYMNASIUM
SCALE: 1/8" = 1'-0"



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



D NORTH EXTERIOR ELEVATION - GYMNASIUM
SCALE: 1/8" = 1'-0"



KEY PLAN
SCALE: NTS

EXTERIOR ELEVATION LEGEND

SYMBOL	DESCRIPTION
X.X	BUILDING SECTION SYMBOL
L1	SCHEDULED LOUVER TYPES
AC	ALUMINUM CANOPY (SEE DETAIL A9.2)
BV	BRICK VENEER
BVR	BRICK VENEER - ROWLOCK COURSE
BVS	BRICK VENEER - SOLDIER COURSE
CSC	CAST STONE COPING
DS	PREFINISHED METAL DOWNSPOUT
OS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
DLF	DECORATIVE LIGHT FIXTURE (SEE ELECTRICAL)
MAL	METAL ACCES LADDER TO ROOF (SEE DETAIL A3.3)
MCJ	MASONRY CONTROL JOINT LOCATIONS
MRP	METAL ROOF PANELS
MWP	METAL WALL PANELS
PMC	PREFINISHED METAL COPING
PME	PREFINISHED METAL EAVE TRIM
PMF	PREFINISHED METAL FASCIA
PMG	PREFINISHED METAL GUTTER
PMR	PREFINISHED METAL RAKE TRIM
RTU	ROOF TOP UNIT (SEE MECHANICAL)
SA	SUSPENDED ALUMINUM AWNING (SEE DETAIL A3.3)
SV	STONE VENEER

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : EXTERIOR ELEVATIONS GYMNASIUM BUILDING

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

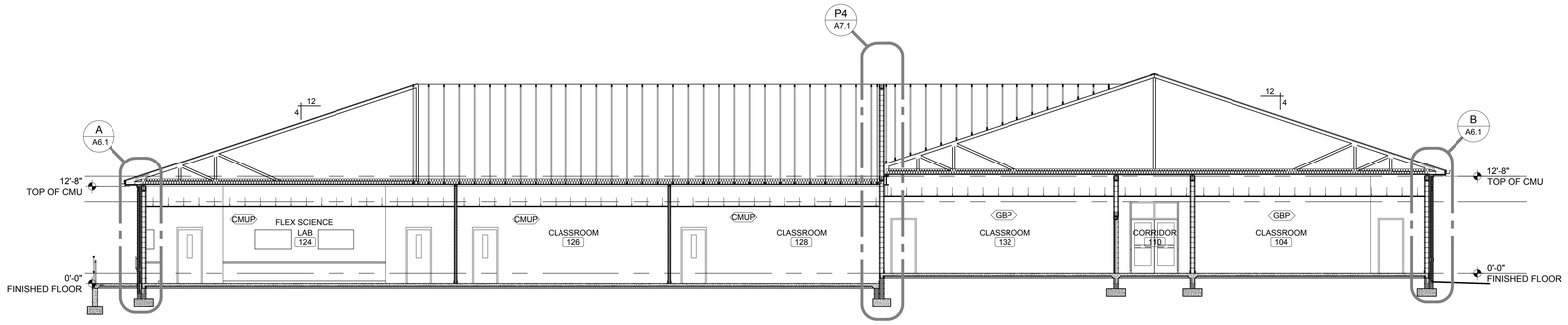
REVISED DATE:

REVISED DATE:

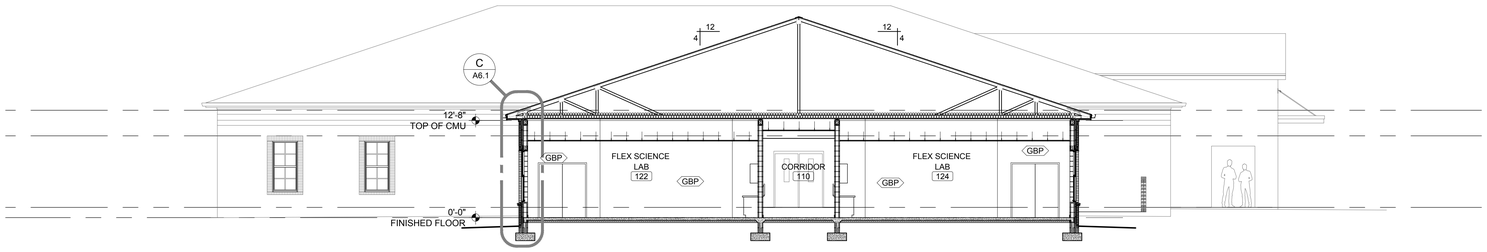
REVISED DATE:

SHEET NO. : A4.2

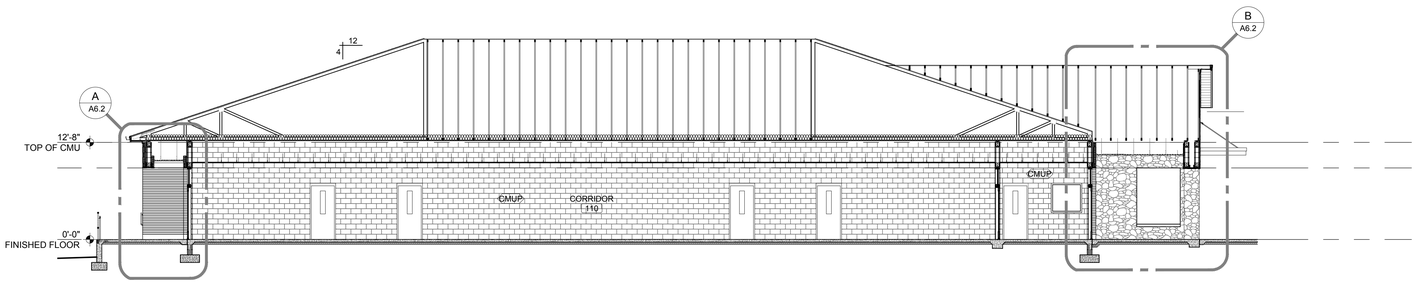
- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A4.2 Exterior Elevations - Gymnasium.dwg
- Thursday, March 07, 2024 4:16:13 PM



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



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



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

BUILDING SECTION LEGEND

SYMBOL	DESCRIPTION
CMUP	CONCRETE MASONRY UNIT - PAINT
CMU	CONCRETE MASONRY UNIT - NO PAINT
MWP	METAL WALL PANELS
GBP	GYPSUM BOARD - PAINT
GB	GYPSUM BOARD - NO PAINT
IGBP	IMPACT RESISTANT GYPSUM BOARD - PAINT
IGB	IMPACT RESISTANT GYPSUM BOARD - NO PAINT
MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB	MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
GR1	METAL GUARD RAIL - PAINT
HR1	METAL HAND RAIL - PAINT

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : BUILDING SECTIONS CLASSROOM BUILDING

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

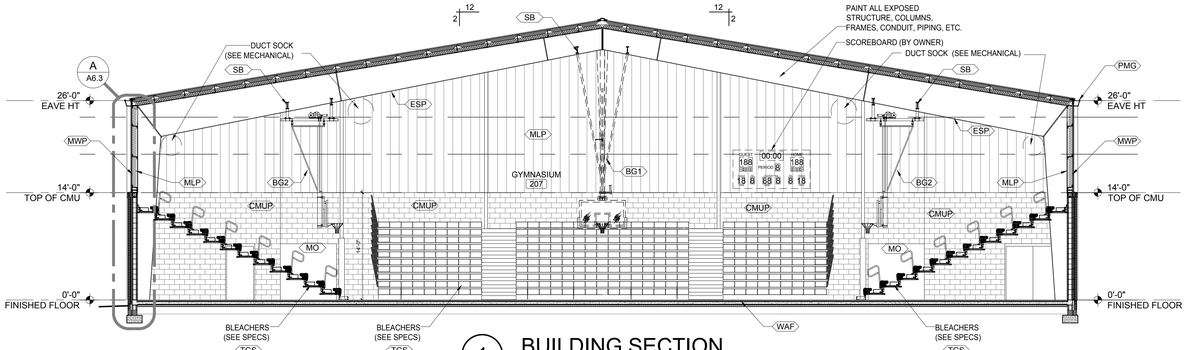
REVISED DATE:

REVISED DATE:

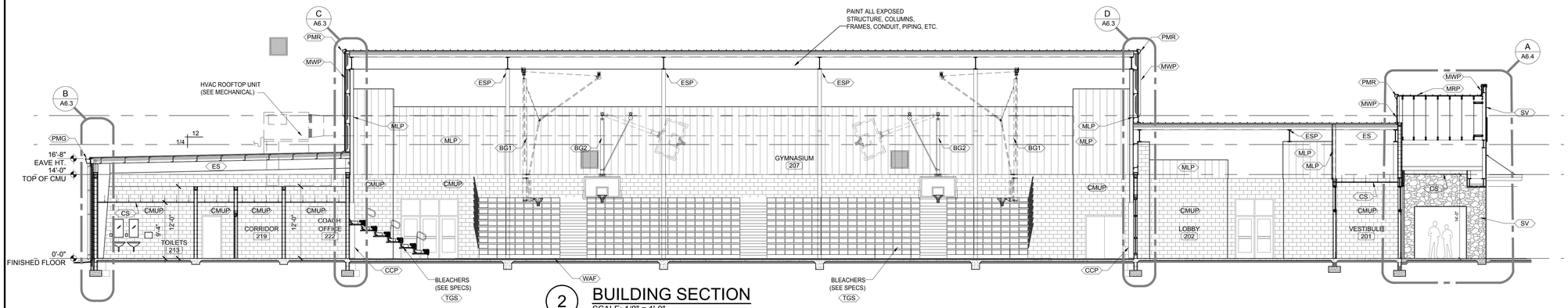
REVISED DATE:

SHEET NO. : A5.1

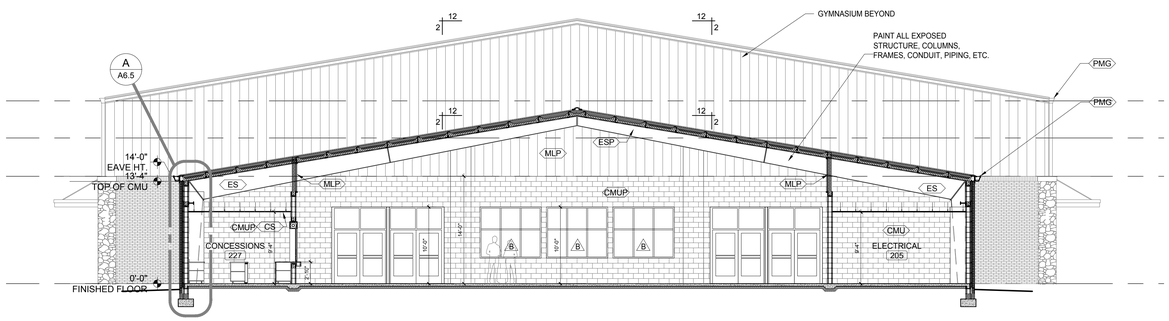
- /Users/kddarchitect/McKEE ASSOCIATES/Halton HS Addition 23-229/A5.1 Building Sections - Classroom.dwg
- Thursday, March 07, 2024 5:00:54 PM



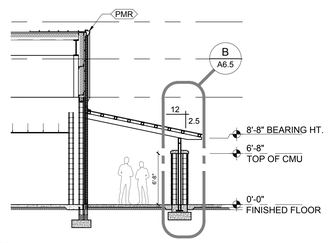
1 BUILDING SECTION
SCALE: 1/8" = 1'-0"



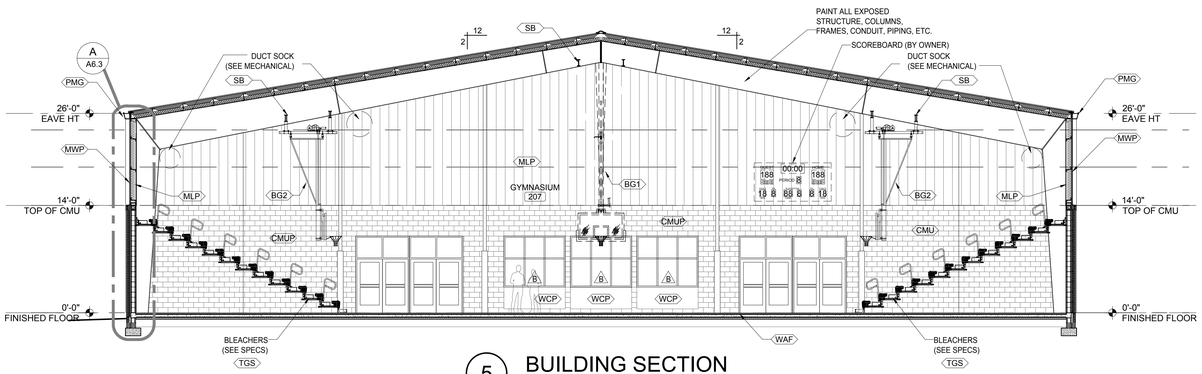
2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



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



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



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

BUILDING SECTION LEGEND

SYMBOL	DESCRIPTION
BG1	BASKETBALL GOAL - PORTABLE (SEE SPECS)
BG2	BASKETBALL GOAL - SIDE FOLD (SEE SPECS)
CCP	COLUMN CRASH PADS
CMUP	CONCRETE MASONRY UNIT - PAINT
CS	CEILING AS SPECIFIED
ESP	EXPOSED STRUCTURE - PAINT
GBP	GYPSUM BOARD - PAINT
MGR	METAL GUARD RAIL (SEE SPECS)
MLP	METAL LINER PANEL (SEE SPECS)
MRP	METAL ROOF PANEL
MWP	METAL WALL PANEL (SEE SPECS)
PMG	PREFINISHED METAL GUTTER - BY METAL BUILDING MANUFACTURE
PMR	PREFINISHED METAL RAKE - BY METAL BUILDING MANUFACTURE
SB	STEEL BEAM - AS REQUIRED FOR ALL FOLDING GOALS
SV	STONE VENEER (SEE SPECS)
TGS	TELESCOPIC GYMNASIUM SEATING
WAF	WOOD ATHLETIC FLOORING
WCP	WALL CRASH PADS

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : BUILDING SECTIONS GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

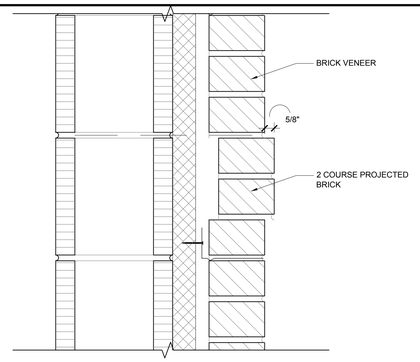
REVISED DATE:

REVISED DATE:

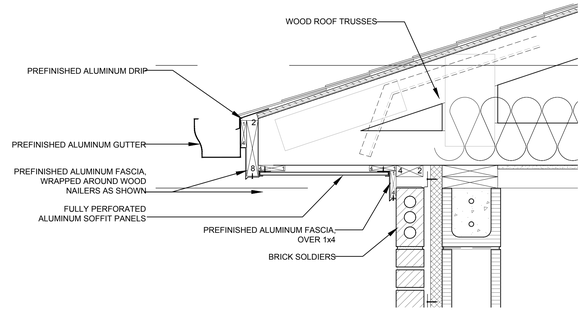
SHEET NO. : A5.2

- /Users/kddarchitect/McKEE ASSOCIATES/Halton HS Addition 23-229/A5.2 Building Sections - Gymnasium.dwg
- Thursday, March 07, 2024 4:19:10 PM

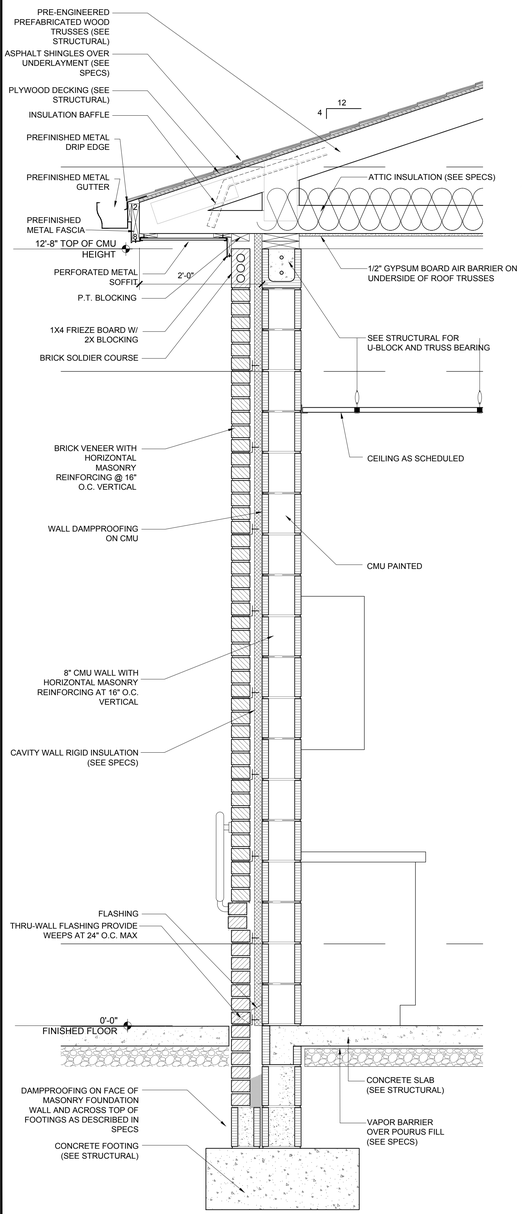
INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



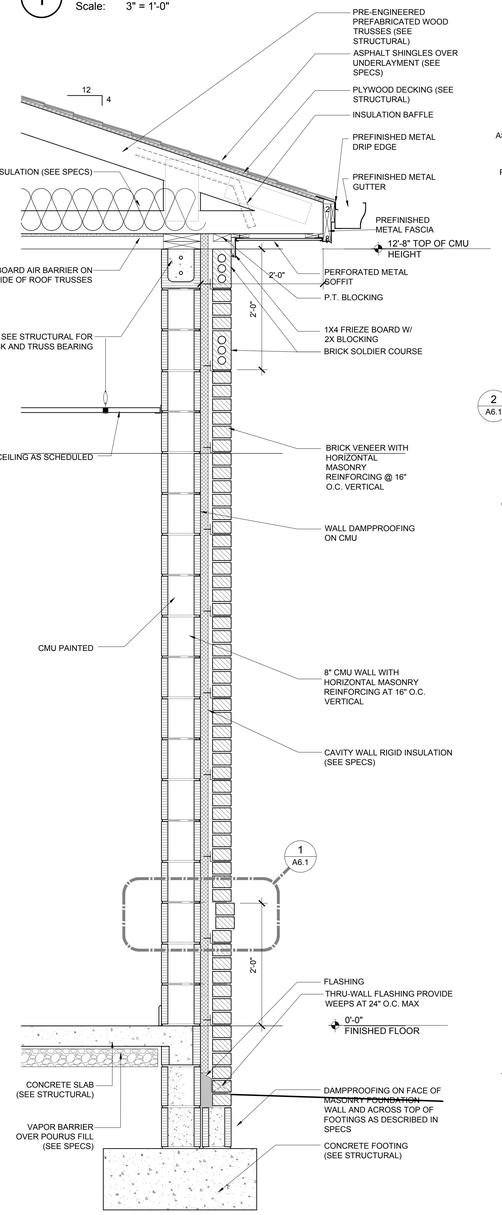
1 Section Detail
Scale: 3" = 1'-0"



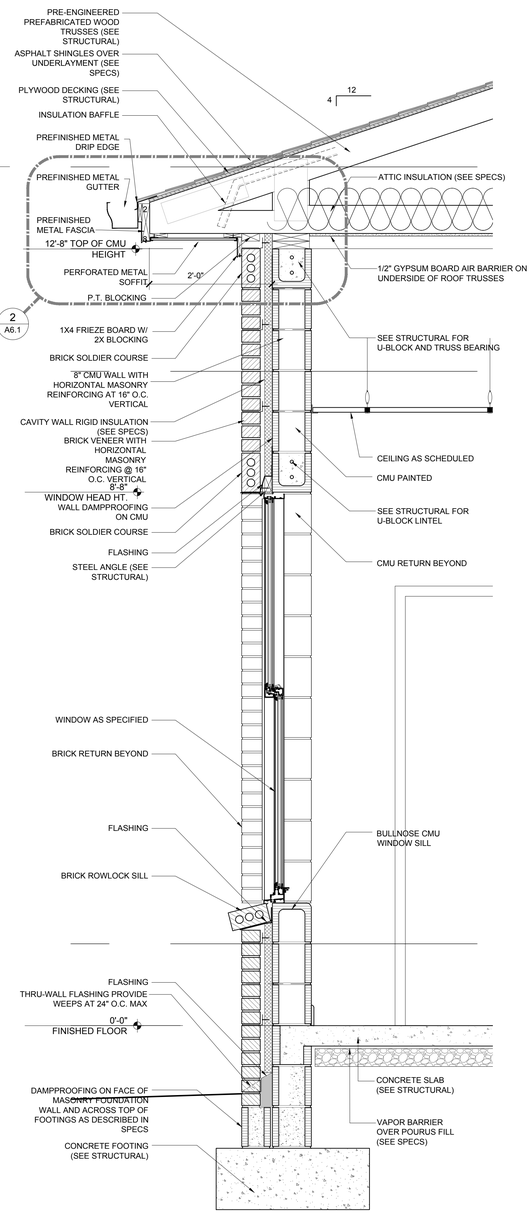
2 ROOF CORNICE DETAIL
Scale: 1 1/2"=1'-0"



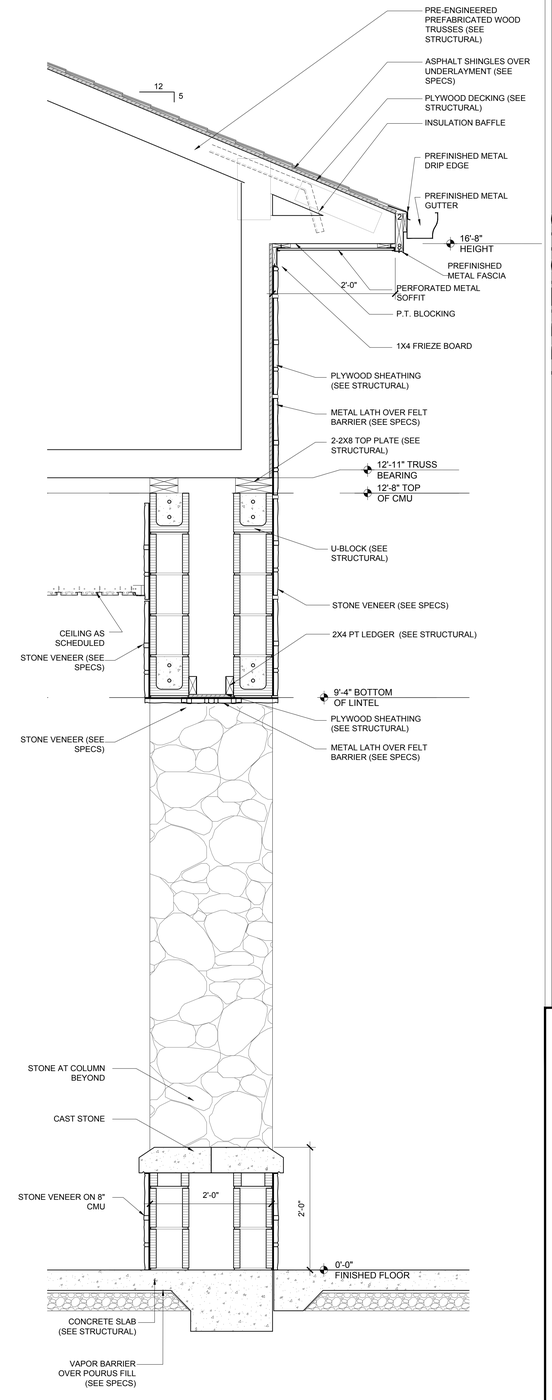
A Wall Section
Scale: 1" = 1'-0"



B Wall Section
Scale: 1" = 1'-0"



C Wall Section
Scale: 1" = 1'-0"



D Wall Section
Scale: 1" = 1'-0"

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

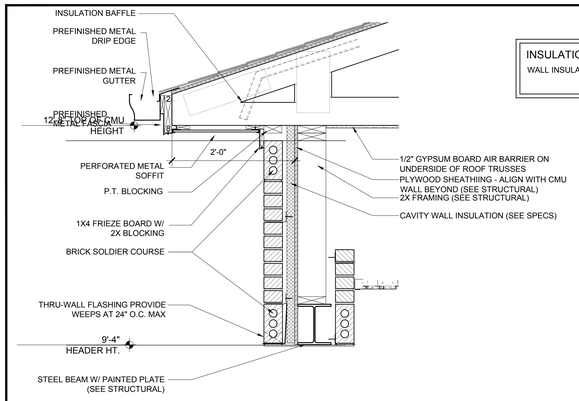
STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	WALL SECTIONS CLASSROOM BLDG
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

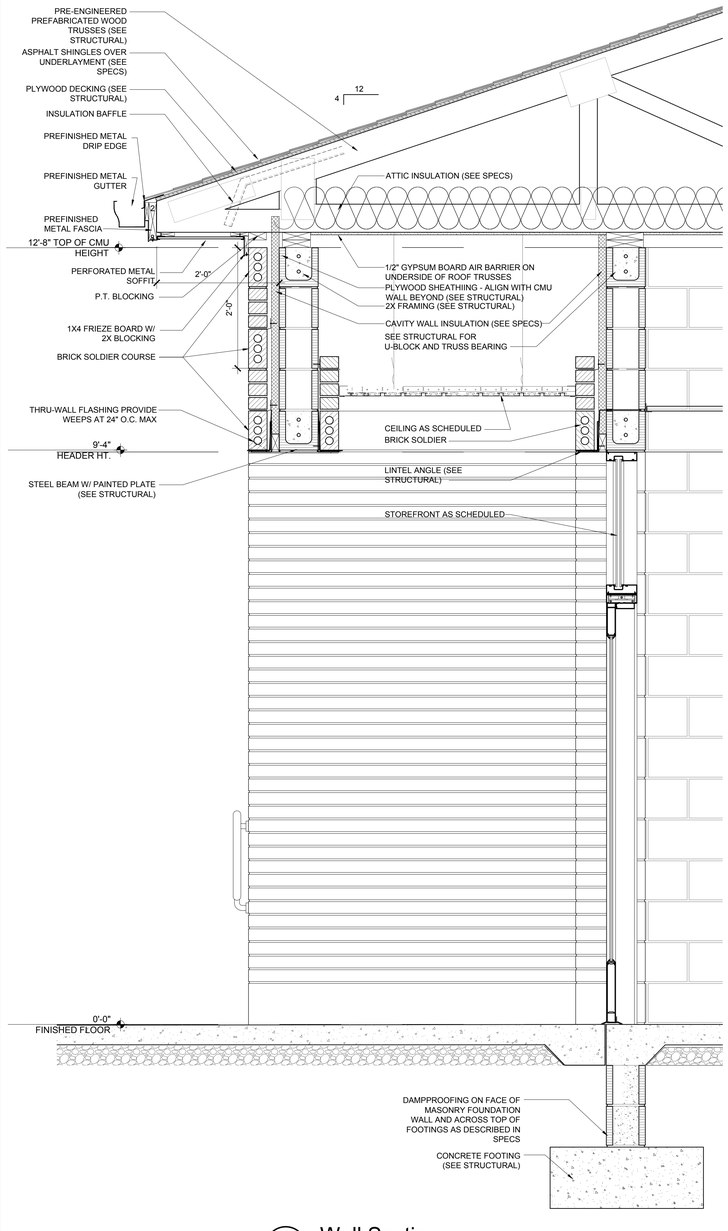
SHEET NO. : A6.1

- Friday, March 08, 2024 2:42:31 PM

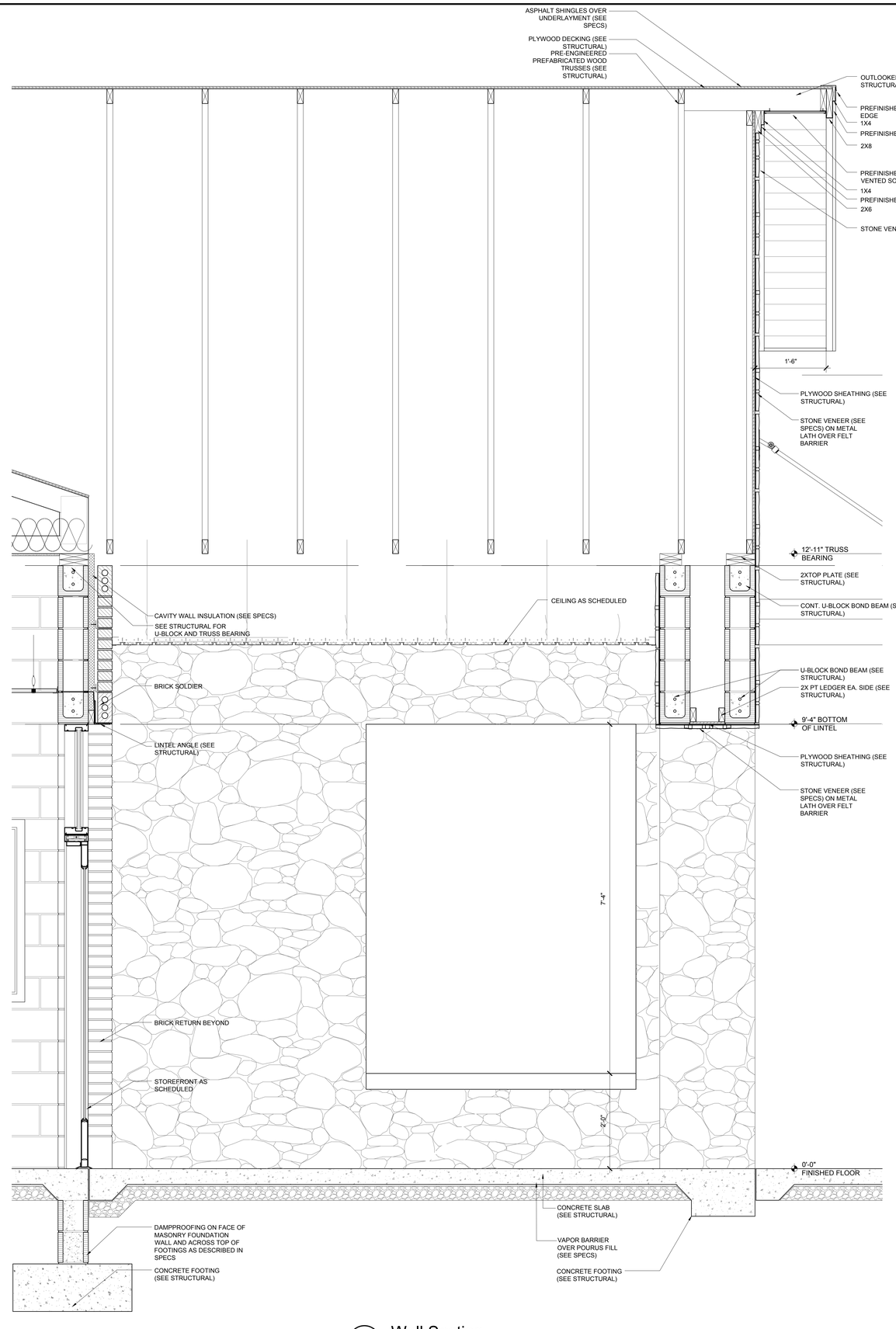
INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



C Wall Section
Scale: 1" = 1'-0"



A Wall Section
Scale: 1" = 1'-0"



B Wall Section
Scale: 1" = 1'-0"

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

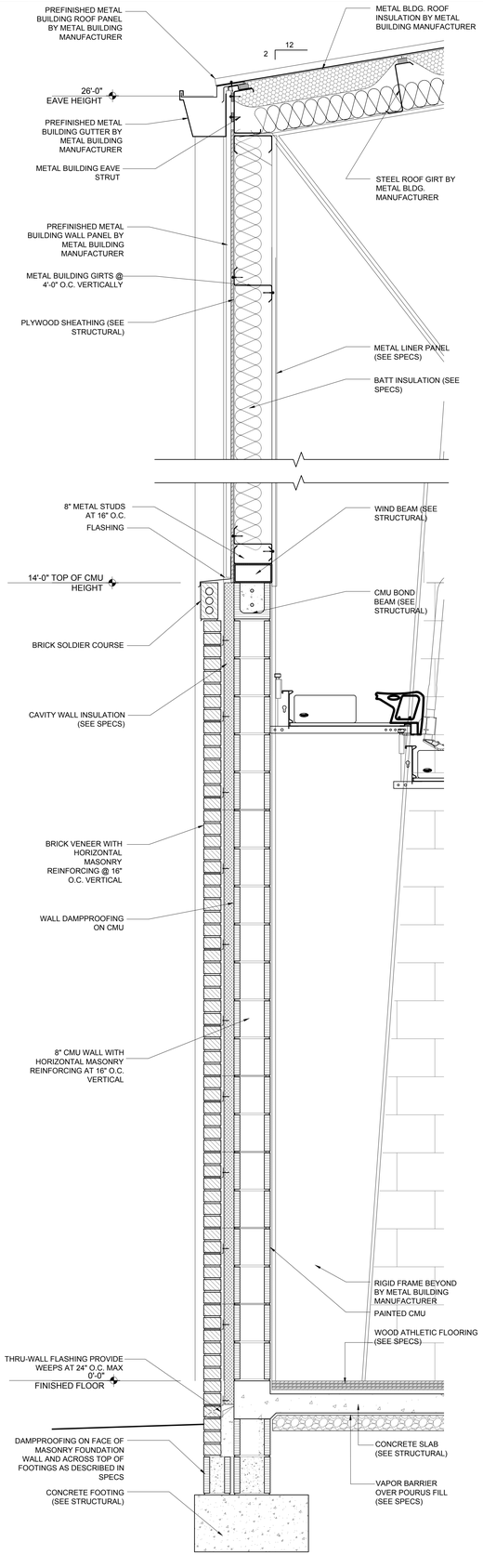
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	WALL SECTIONS CLASSROOM BLDG
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

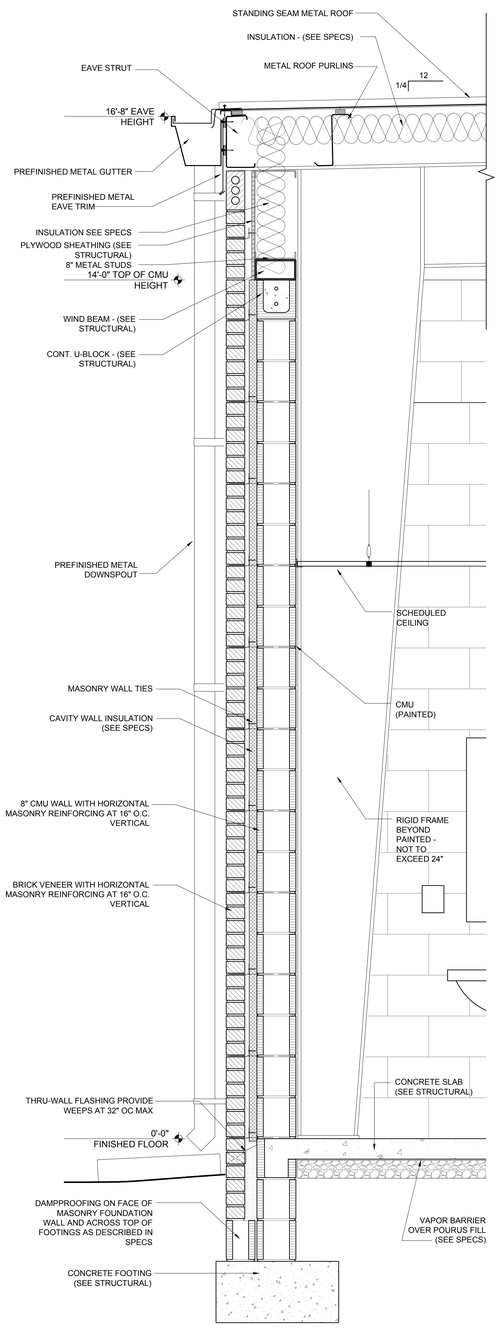
SHEET NO. : A6.2

- Thursday, March 07, 2024 12:02:31 PM

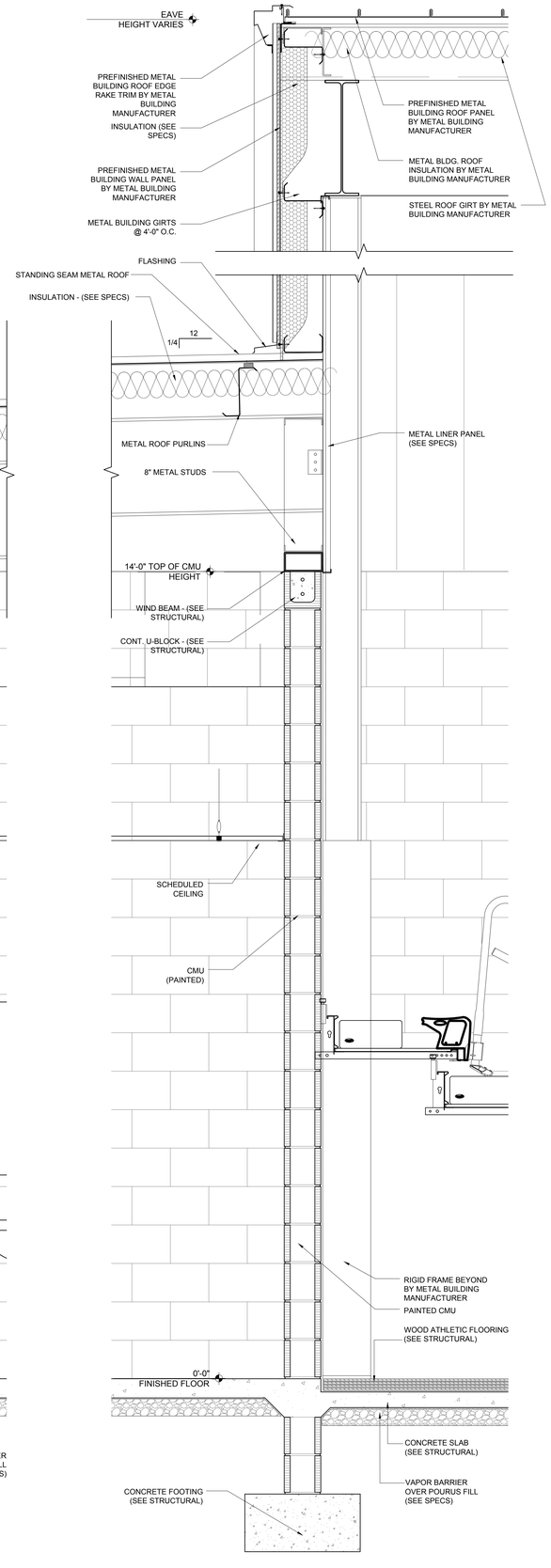
INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



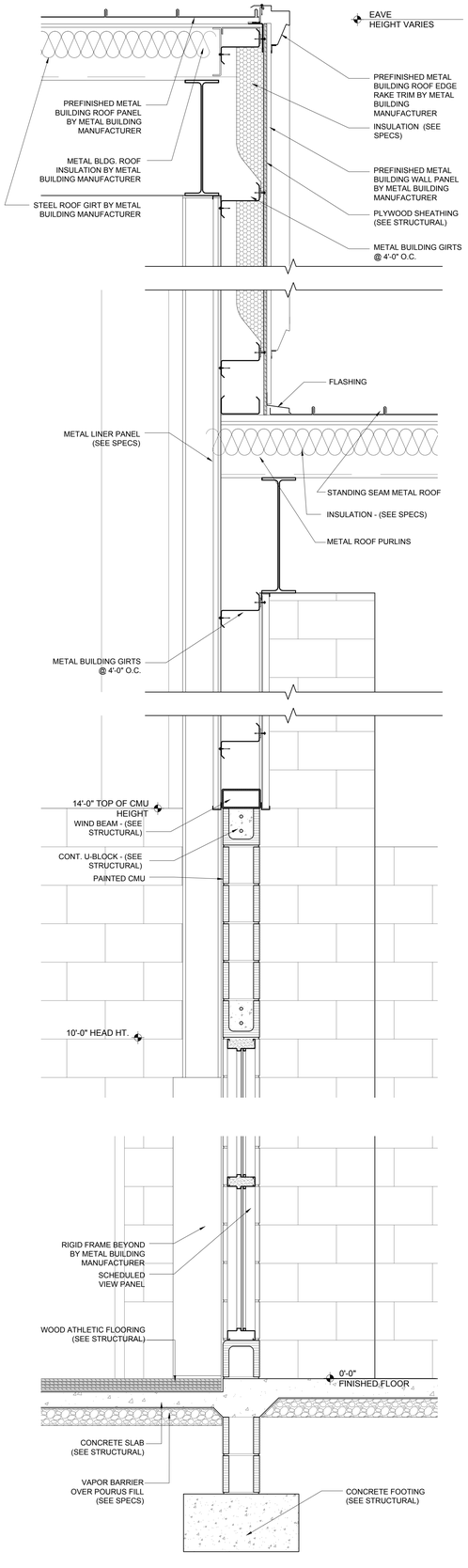
A Wall Section
Scale: 1" = 1'-0"



B Wall Section
Scale: 1" = 1'-0"



C Wall Section
Scale: 1" = 1'-0"



D Wall Section
Scale: 1" = 1'-0"

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

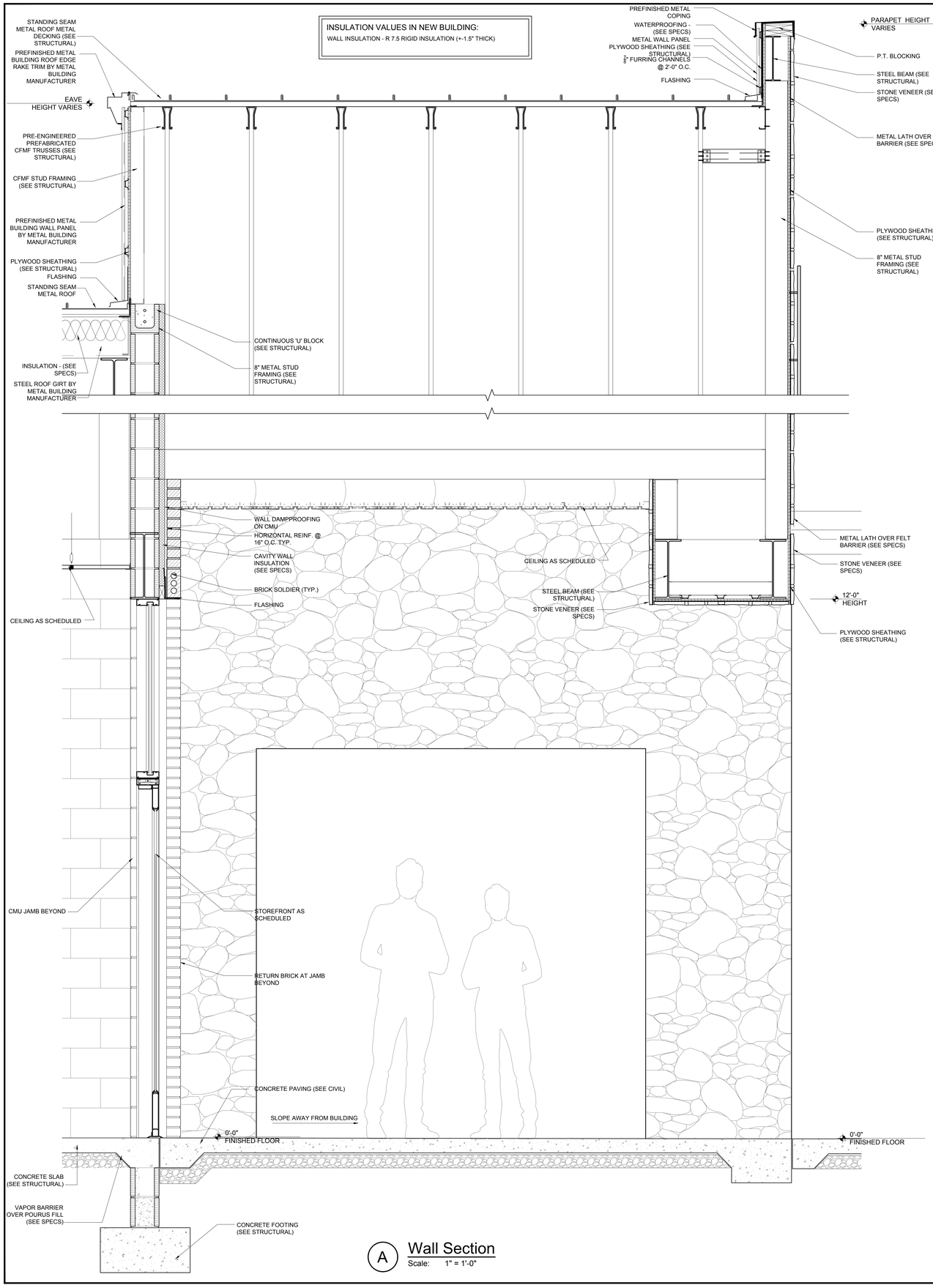
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1092
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	WALL SECTIONS GYMNASIUM
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

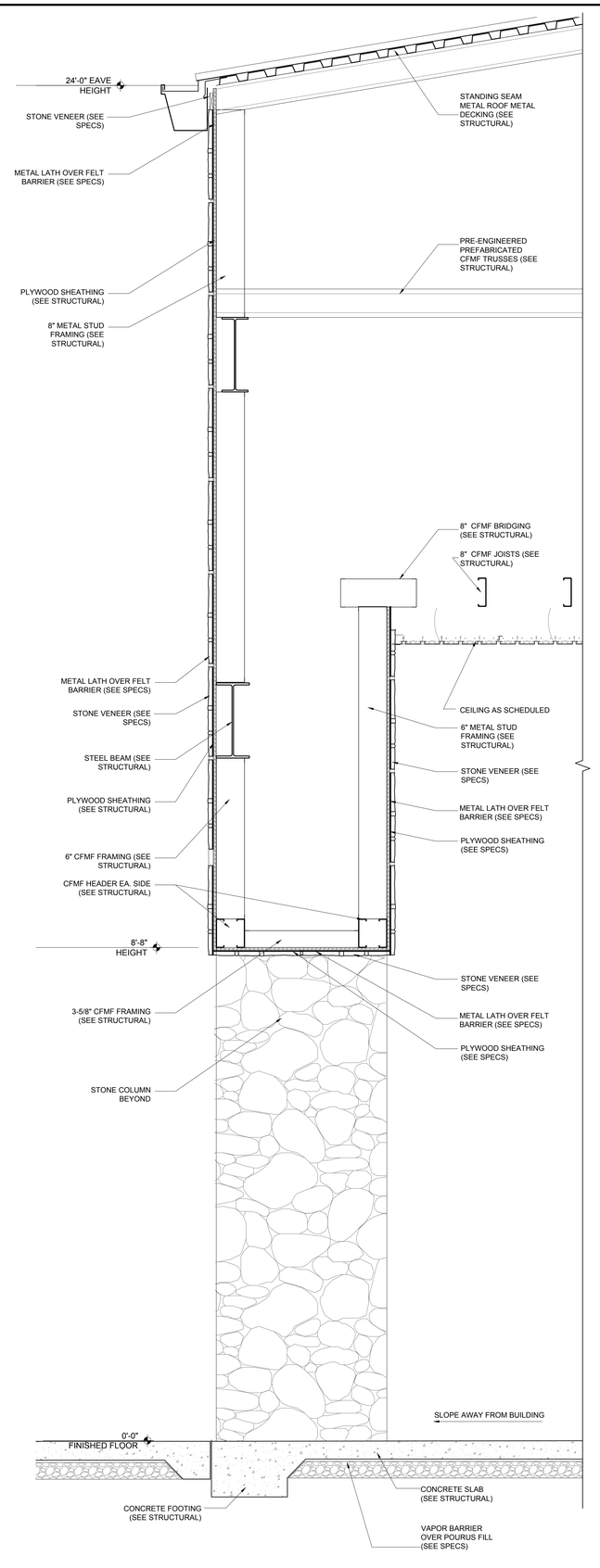
SHEET NO. : A6.3

- - Thursday, March 07, 2024 12:04:30 PM

INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



A **Wall Section**
Scale: 1" = 1'-0"



B **Wall Section**
Scale: 1" = 1'-0"

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

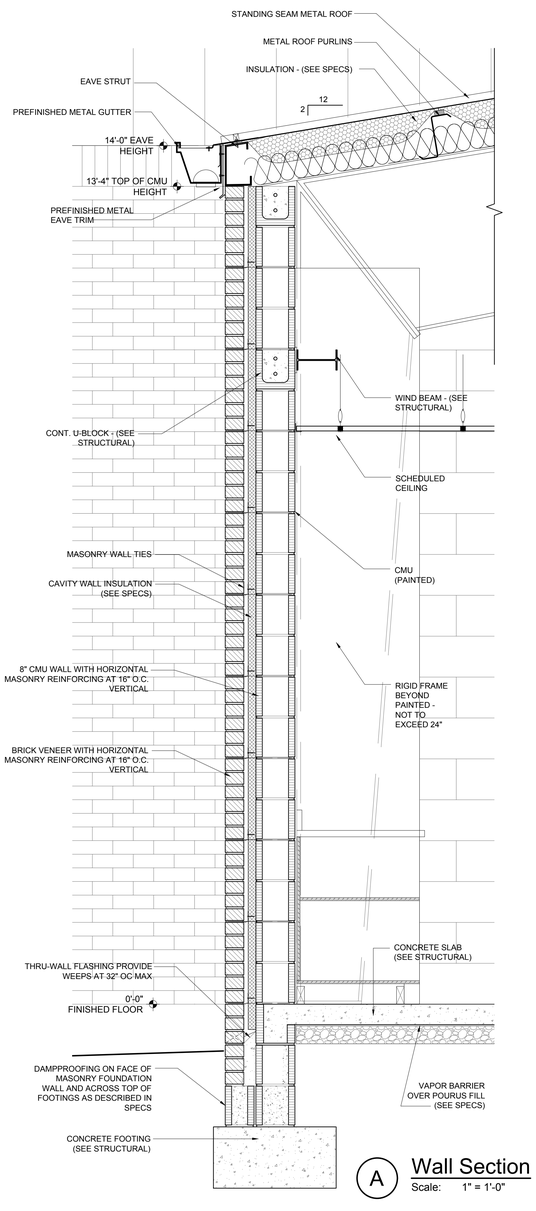
STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	WALL SECTIONS GYMNASIUM
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

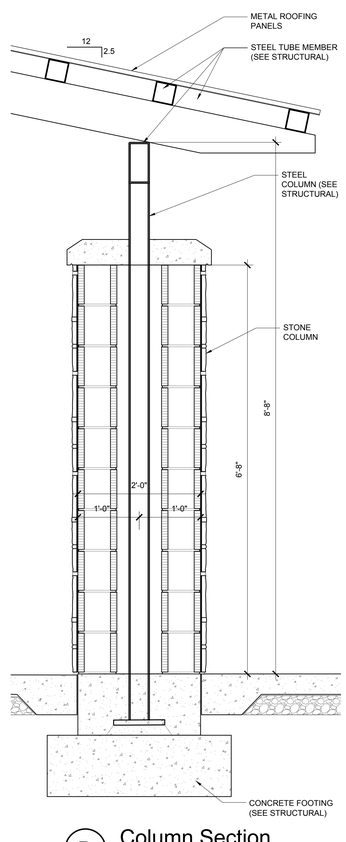
SHEET NO. : A6.4

- Thursday, March 07, 2024 4:31:40 PM

INSULATION VALUES IN NEW BUILDING:
WALL INSULATION - R 7.5 RIGID INSULATION (+-1.5" THICK)



A Wall Section
Scale: 1" = 1'-0"



B Column Section
Scale: 1" = 1'-0"

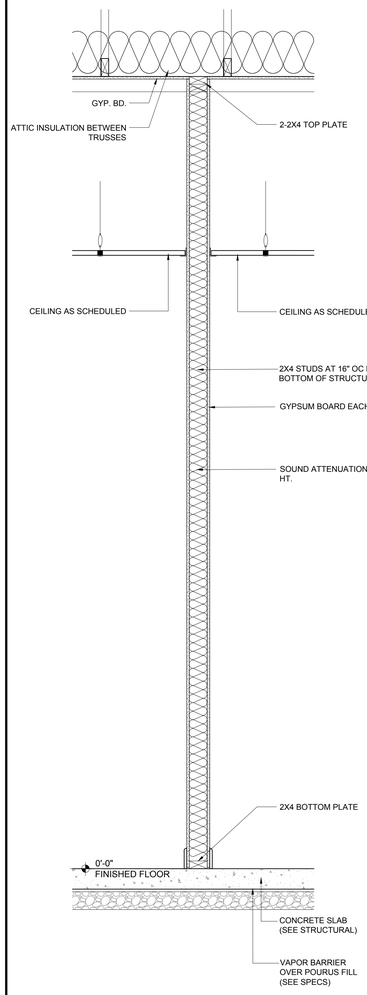
ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

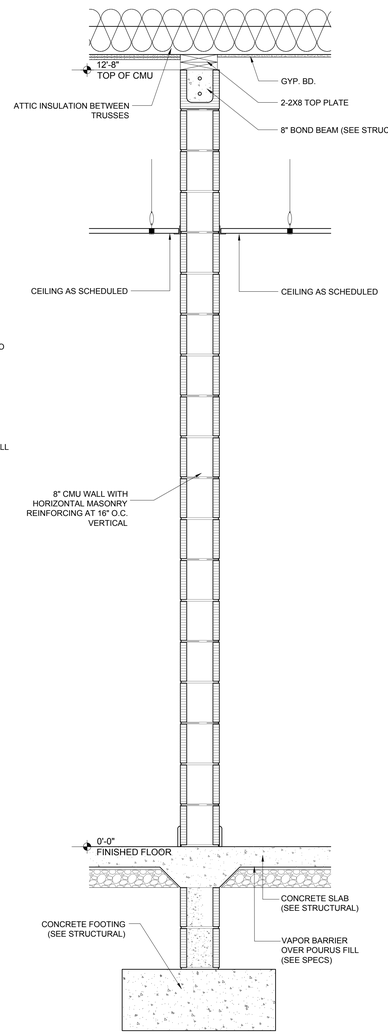
STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	WALL SECTIONS GYMNASIUM
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A6.5

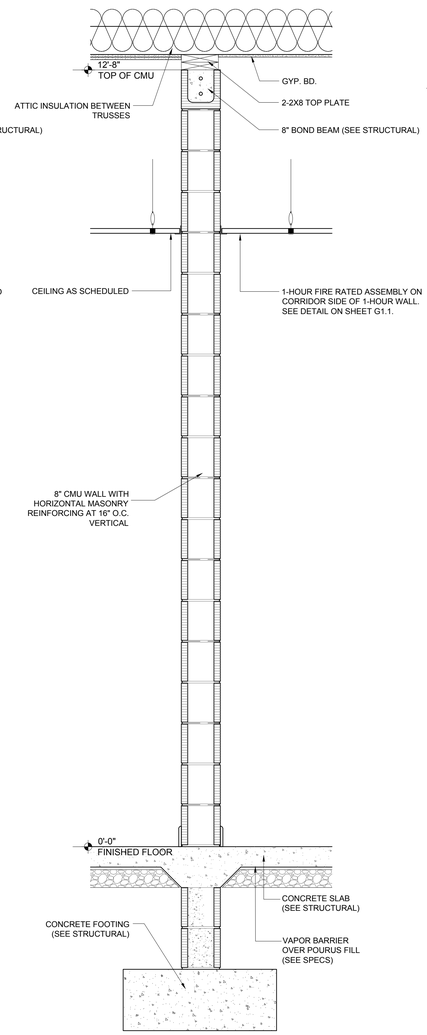


P1 Partition Type 1
Scale: 1" = 1'-0"

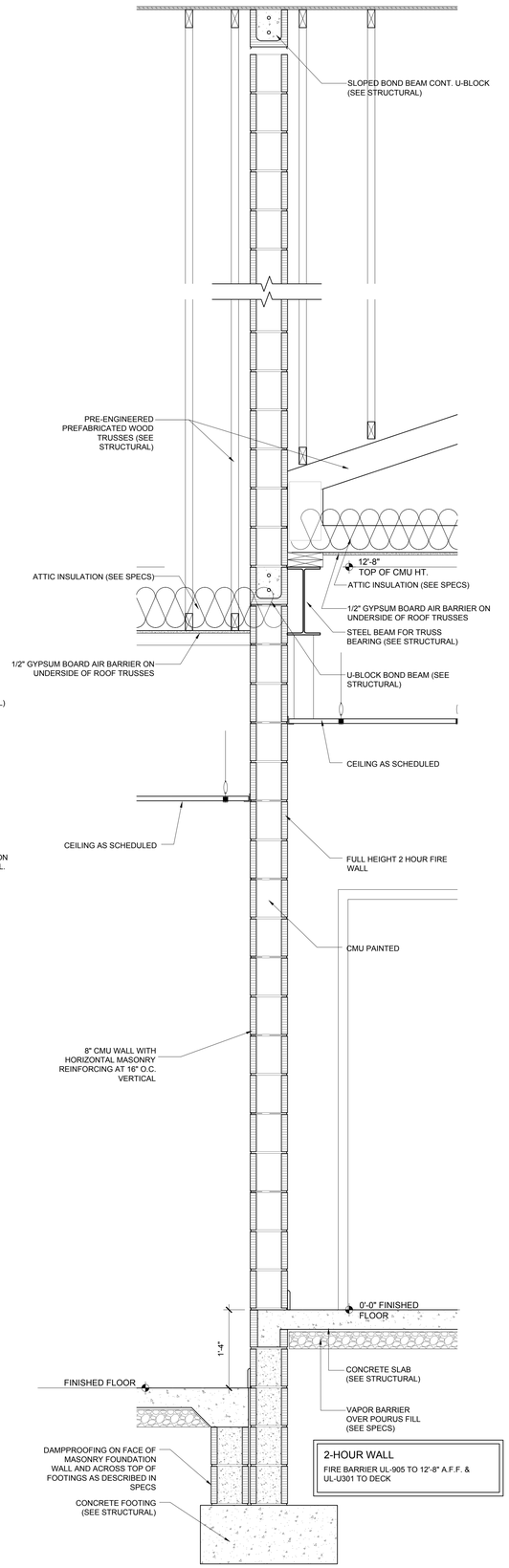


P2 Partition Type 2
Scale: 1" = 1'-0"

1-HOUR WALL
FIRE RESISTANCE TO MEET OR EXCEED IBC SECTION 721.



P3 Partition Type 2
Scale: 1" = 1'-0"



2-HOUR WALL
FIRE BARRIER UL-905 TO 12'-8" A.F.F. & UL-U301 TO DECK

P4 Partition Type 4
Scale: 1" = 1'-0"

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	PARTITION TYPES
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A7.1

ROOM FINISH SCHEDULE -- CLASSROOM

--- - NO WORK REQUIRED
GBP - GYPSUM BOARD - PAINT
GB - GYPSUM BOARD - NO PAINT
MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB - MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT
IGB - IMPACT RESISTANT GYPSUM BOARD - NO PAINT

CMUP - CONCRETE MASONRY UNIT - PAINT
CMU - CONCRETE MASONRY UNIT - NO PAINT
IMWP - INTERIOR METAL WALL PANELS
PLP - PLASTIC LAMINATE WALL PANELS
AWC - ACCOUSTICAL WALL COVERING
CT - CERAMIC TILE
PT - PORCELAIN TILE

PS - POLISHED CONCRETE
SC - SEALED CONCRETE
RFT - RUBBER FLOOR TILES
RSF - ROLL RUBBER SPORTS FLOORING
VCT - VINYL COMPOSITION TILE
WGF - WOOD GYMNASIUM FLOORING
C - CARPET

EPF - EPOXY POLYMER FLOORING
EPB - EPOXY POLYMER COVE BASE
RB - RUBBER BASE
W - WOOD BASE
VCB - VENTILATED COVE BASE
FB - FACE BRICK

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
101	SECURE VESTIBULE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	---
102	RECEPTION	LVT	RB	GBP	CMUP	CMUP	CMUP	SEE RCP PLAN				
103	OFFICE	LVT	RB	CMUP	GBP	CMUP	CMUP	SEE RCP PLAN				
104	CLASSROOM	LVT	RB	CMUP/GBP	CMUP	GBP	GBP	SEE RCP PLAN				
105	MECHANICAL	SC	--	CMU	GB	GB	GB	SEE RCP PLAN				
106	CLASSROOM	LVT	RB	CMUP/GBP	CMUP	GBP	GBP	SEE RCP PLAN				
107	CLASSROOM	LVT	RB	CMUP/GBP	CMUP	GBP	GBP	SEE RCP PLAN				
108	MECHANICAL	SC	--	CMU	GB	GB	GB	SEE RCP PLAN				
109	CLASSROOM	LVT	RB	CMUP/GBP	CMUP	GBP	CMUP	SEE RCP PLAN				
110	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
111	CLASSROOM	LVT	RB	CMUP	CMUP/GBP	CMUP/GBP	CMUP	SEE RCP PLAN				
111A	MECHANICAL	SC	--	GB	CMU	CMU	GB	SEE RCP PLAN				
112	ELECTRICAL/MECHANICAL	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
113	JANITOR	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
114	STORAGE	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
115	IT	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
116	GIRLS	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	TOILET WALL ONLY PT WAINSCOT
117	BOYS	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	TOILET WALL ONLY PT WAINSCOT
118	CLASSROOM	LVT	RB	CMUP	GBP	CMUP	CMUP/GBP	SEE RCP PLAN				
119	MECHANICAL	SC	--	GB	GB	GB	CMU	SEE RCP PLAN				
120	CLASSROOM	LVT	RB	GBP	CMUP/GBP	CMUP	CMUP/GBP	SEE RCP PLAN				
121	MECHANICAL	SC	--	GB	GB	GB	CMU	SEE RCP PLAN				
122	FLEX SCIENCE LAB	LVT	RB	CMUP/GBP	CMUP	CMUP	CMUP/GBP	SEE RCP PLAN				
123	CORRIDOR	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
124	FLEX SCIENCE LAB	LVT	RB	CMUP/GBP	CMUP	CMUP/GBP	CMUP	SEE RCP PLAN				
125	MECHANICAL	SC	--	GB	GB	CMU	GB	SEE RCP PLAN				
126	CLASSROOM	LVT	RB	GBP	CMUP/GBP	CMUP	CMUP/GBP	SEE RCP PLAN				
127	MECHANICAL	SC	--	GB	GB	CMU	GB	SEE RCP PLAN				
128	CLASSROOM	LVT	RB	CMUP	GBP	CMUP/GBP	CMUP	SEE RCP PLAN				
129	MECHANICAL	SC	--	GB	GB	GB	CMU	SEE RCP PLAN				
130	UNISEX STAFF	PT	PT	MGBP	CMUP	MGBP	CMUP	SEE RCP PLAN				
131	TEACHER	LVT	RB	CMUP	GBP	GBP	CMUP	SEE RCP PLAN				
132	CLASSROOM	LVT	RB	CMUP	CMUP	CMUP	GBP	SEE RCP PLAN				

ROOM FINISH SCHEDULE -- GYMNASIUM

--- - NO WORK REQUIRED
GBP - GYPSUM BOARD - PAINT
GB - GYPSUM BOARD - NO PAINT
MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB - MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT
IGB - IMPACT RESISTANT GYPSUM BOARD - NO PAINT

CMUP - CONCRETE MASONRY UNIT - PAINT
CMU - CONCRETE MASONRY UNIT - NO PAINT
IMWP - INTERIOR METAL WALL PANELS
PLP - PLASTIC LAMINATE WALL PANELS
AWC - ACCOUSTICAL WALL COVERING
CT - CERAMIC TILE
PT - PORCELAIN TILE

PS - POLISHED CONCRETE
SC - SEALED CONCRETE
RFT - RUBBER FLOOR TILES
RSF - ROLL RUBBER SPORTS FLOORING
VCT - VINYL COMPOSITION TILE
WGF - WOOD GYMNASIUM FLOORING
C - CARPET

EPF - EPOXY POLYMER FLOORING
EPB - EPOXY POLYMER COVE BASE
RB - RUBBER BASE
W - WOOD BASE
VCB - VENTILATED COVE BASE
FB - FACE BRICK

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
201	VESTIBULE	LVT	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	
202	LOBBY	LVT	RB	CMUP	CMUP	CMUP	CMUP	--				CEILING - EXPOSED STRUCTURE PAINTED
203	JANITOR	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
204	WOMEN	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	TOILET WALL ONLY PT WAINSCOT
204A	HALL	LVT	RB	CMUP	CMUP	CMUP	--	SEE RCP PLAN				
205	ELECTRICAL	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
206	MECHANICAL	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
207	GYMNASIUM	WGF	--	CMUP	CMUP	CMUP	CMUP	--				CEILING - EXPOSED STRUCTURE PAINTED
208	MECHANICAL	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
209	BOY'S VISITOR LOCKER	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
210	BOY'S VISITOR TOILET	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
211	TRAINING/LAUNDRY	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
212	BOY'S LOCKER ROOM	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
213	BOY'S SHOWER/TOILET	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
214	GIRL'S SHOWER/TOILET	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
215	GIRL'S LOCKER ROOM	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
216	CHEER ROOM	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
217	GIRL'S VISITOR TOILET	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
218	GIRL'S VISITOR LOCKER	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
219	CORRIDOR	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
220	STORAGE	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
221	COACH OFFICE	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
222	COACH OFFICE	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
223	UNISEX	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
224	COACH OFFICE	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
225	SPRINKLER	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
226	STORAGE	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
227	CONCESSIONS	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
228	STORAGE	SC	--	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN				
229	MECHANICAL	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				
230	MEN	PT	PT	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		PT	6'-0"	TOILET WALL ONLY PT WAINSCOT
230A	HALL	LVT	RB	CMUP	CMUP	CMUP	--	SEE RCP PLAN				
231	STORAGE	SC	--	CMU	CMU	CMU	CMU	SEE RCP PLAN				

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : ROOM FINISH SCHEDULE CLASSROOM & GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A8.1

- /Users/kddarchitect/McKEE ASSOCIATES/Halton HS Addition 23-229/A8.1 Room Finish Schedule.dwg
- Thursday, March 07, 2024 4:25:00 PM

DOOR SCHEDULE -- CLASSROOM

DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS HEAD	DETAILS JAMB	SIGNAGE	REMARKS
101	PR 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY	-	2/A8.4	7/A8.4		
102	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	RECEPTION	
103	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	OFFICE	
104	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
105A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
105B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
106	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
107	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
108A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
108B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
109	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
110A	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM4	PAINT	20 MIN.	4/A8.4	9/A8.4		
110B	PR 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF2	FACTORY	-	2/A8.4	7/A8.4		
110C	PR 4'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM3	PAINT	90 MIN.	4/A8.4	9/A8.4		
111	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
111A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
112	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	ELECTRICAL/MECHANICAL	PANIC BAR REQUIRED
113	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	JANITOR	
114	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM3	PAINT	20 MIN.	4/A8.4	9/A8.4	STORAGE	
115	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM3	PAINT	20 MIN.	4/A8.4	9/A8.4	IT	
116	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	GIRL'S	
117	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	BOY'S	
118	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
119A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
019B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
120	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
121	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
122A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	LAB	
122B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	LAB	
123	PR 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF3	FACTORY	-	2/A8.4	7/A8.4		
124A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	LAB	
124B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4	LAB	
125	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
126	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
127A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
127B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
128	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
129	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	MECHANICAL	
130	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	-	5/A8.4	10/A8.4	UNISEX STAFF	
131	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		
132	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	20 MIN.	4/A8.4	9/A8.4		

DOOR SCHEDULE -- GYMNASIUM

DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS HEAD	DETAILS JAMB	SIGNAGE	REMARKS
201A	PR 4'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	-	2/A8.4	7/A8.4		
201B	PR 4'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	-	2/A8.4	7/A8.4		
201C	PR 4'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	-	2/A8.4	7/A8.4		
202A	PR 4'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	-	11/A8.4	14/A8.4		
202B	PR 4'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	-	11/A8.4	14/A8.4		
202C	PR 4'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	-	11/A8.4	14/A8.4		
202D	PR 3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF5	FACTORY	-	2/A8.4	7/A8.4		
202E	PR 3'-4"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF7	FACTORY	-	11/A8.4	14/A8.4		
202F	PR 3'-4"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF7	FACTORY	-	11/A8.4	14/A8.4		
203	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	JANITOR	
204	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	WOMEN	
205	PR 3'-0"	7'-0"	1 3/4"	FRP	C	FACTORY	HM3	PAINT	-	4/A8.4	9/A8.4	ELECTRICAL	PANIC BAR REQUIRED
206	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM3	PAINT	-	4/A8.4	9/A8.4	MECHANICAL	
207A	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF6	FACTORY		2/A8.4	7/A8.4		
207B	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF6	FACTORY		2/A8.4	7/A8.4		
207C	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF6	FACTORY		2/A8.4	7/A8.4		
207D	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF6	FACTORY		2/A8.4	7/A8.4		
207E	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF6	FACTORY		2/A8.4	7/A8.4		
207F	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF6	FACTORY		2/A8.4	7/A8.4		
208	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM3	PAINT	-	4/A8.4	9/A8.4	MECHANICAL	
209	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	VISITOR LOCKER	
210	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	SHOWER/TOILET	
211	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	TRAINING/LAUNDRY	
212A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	GIRL'S LOCKER ROOM	
212B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4		
213	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	SHOWER/TOILET	
214	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	SHOWER/TOILET	
215A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	BOY'S LOCKER ROOM	
215B	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4		
216	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	CHEER ROOM	
217	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	SHOWER/TOILET	
218	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	VISITOR LOCKER	
220	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	STORAGE	
221	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	COACH OFFICE	
222	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	COACH OFFICE	
223	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	UNISEX	
224	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	COACH OFFICE	
225	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM1	PAINT	-	1/A8.4	6/A8.4	SPRINKLER	
226	PR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM3	PAINT	-	4/A8.4	9/A8.4	STORAGE	
227A	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4		
227B	6'-0"	4'-0"	---	ALUMINUM COUNTER SHUTTER	D	FACTORY	---	FACTORY	-	15/A8.4	13/A8.4		
227C	6'-0"	4'-0"	---	ALUMINUM COUNTER SHUTTER	D	FACTORY	---	FACTORY	-	15/A8.4	13/A8.4		
228	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	STORAGE	
229	PR 3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM3	PAINT	-	1/A8.4	6/A8.4	MECHANICAL	
230	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	MEN	
231	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM1	PAINT	-	4/A8.4	9/A8.4	STORAGE	

ADDITIONS
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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1092
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : DOOR SCHEDULE CLASSROOM & GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A8.2

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A8.2 Door Schedule.dwg
- Thursday, March 07, 2024 4:25:02 PM

SIGN MOUNTING HEIGHT

703.4.1 HEIGHT ABOVE FINISH FLOOR OF GROUND
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED ⅜ INCHES (4.8 mm) MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

703.4.2 LOCATION
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT THE CLEAR FLOOR SPACE OF 18 INCHES (455 mm) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSEST POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

SIGNAGE NOTES:

FURNISH INDIVIDUAL PLASTIC LAMINATE SIGNAGE SYSTEM WITH ROOM OR OCCUPANT'S NAME AND ROOM NUMBER. FINAL WORDING TO BE FURNISHED WHEN SHOP DRAWINGS FOR SIGNAGE SYSTEM ARE SUBMITTED. FURNISH INDIVIDUAL PLASTIC LAMINATE RESTROOM SIGNS FOR DOOR(S) AND HANDICAPED ACCESS SIGN TO BE PLACED ON WALL BESIDE RESTROOM DOOR(S) -SEE DIAGRAM.

LABELED DOOR AND FRAME NOTE:

HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTIVE ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED OR SUBSTANDARD QUALITY USED SUCH THAT THE EFFECTIVENESS OF THE ENTIRE OPENING AS A FIRE OR SMOKE BARRIER MIGHT BE JEOPARDIZED. DOORS AND FRAMES SHALL BE FURNISHED WITH UNDERWRITER'S LABORATORIES OR WARNOCKHERSEY LABELS WITH APPROPRIATE FIRE RESISTANCE RATINGS FOR THE CLASS OF OPENING SCHEDULED. SUBJECT TO DOOR MANUFACTURER'S PROCEDURAL LIMITATIONS, LABELS SHOULD BEAR THE FOLLOWING NOTATION: "FIRE DOOR, TO BE EQUIPPED WITH FIRE EXIT HARDWARE"

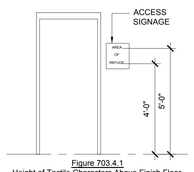


Figure 703.4.1
Height of Tactile Characters Above Finish Floor or Ground

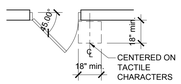
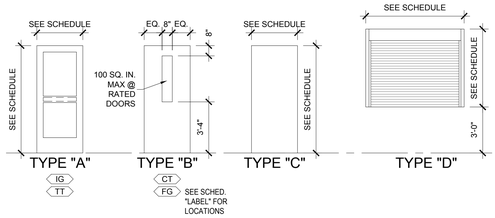
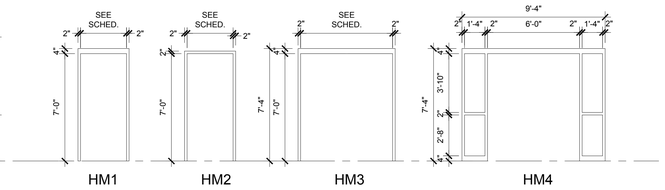


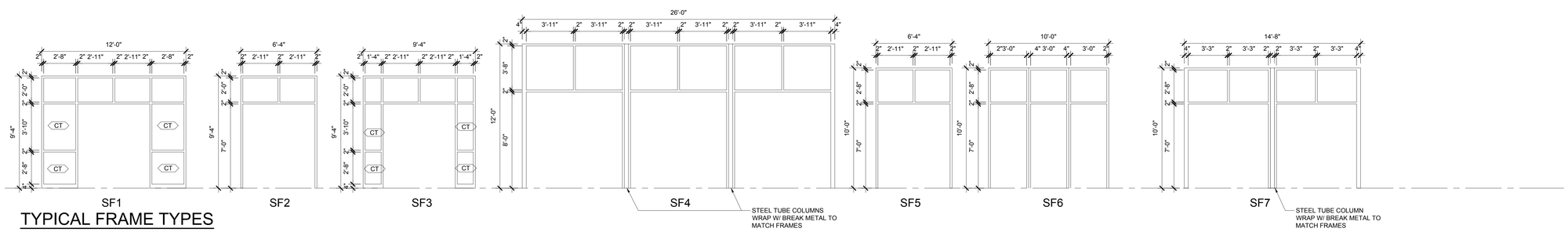
Figure 703.4.2
Location of Tactile Signs at Doors



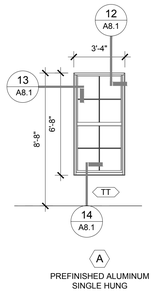
TYPICAL DOOR TYPES
SCALE: 1/4" - 1'-0"



TYPICAL FRAME TYPES
SCALE: 1/4" - 1'-0"

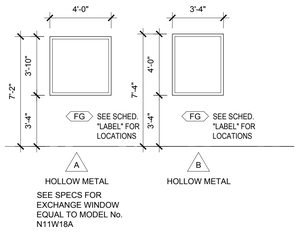


TYPICAL FRAME TYPES
SCALE: 1/4" - 1'-0"

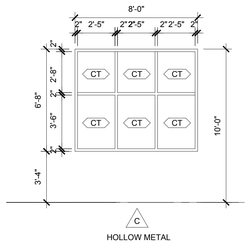


WINDOW SCHEDULE
SCALE: 1/4" - 1'-0"

NOTE:
VERIFY ALUMINUM STOREFRONT DIMENSIONS



VIEW PANEL SCHEDULE
SCALE: 1/4" - 1'-0"



GLAZING SCHEDULE	
SYMBOL	DESCRIPTION
CT	CLEAR TEMPERED
IG	INSULATING GLASS
TT	TINTED TEMPERED
FG	FIRE GLASS

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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : DOOR/WINDOW TYPES CLASSROOM & GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

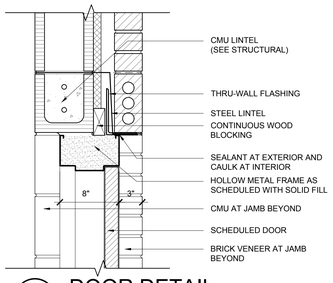
REVISED DATE:

REVISED DATE:

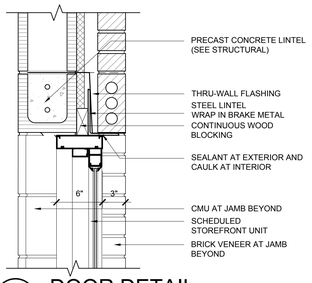
REVISED DATE:

SHEET NO. : A8.3

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A8.3 Door Types.dwg
- Thursday, March 07, 2024 4:25:04 PM



1 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



2 DOOR DETAIL
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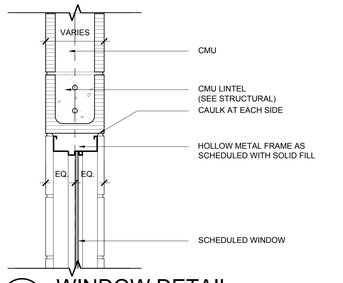

3 WINDOW DETAIL
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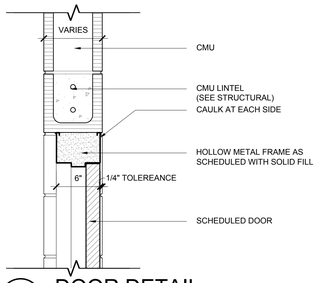

4 DOOR DETAIL
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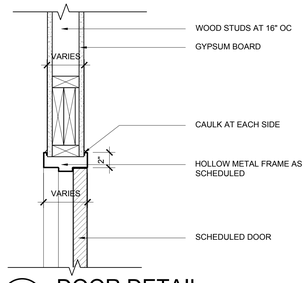
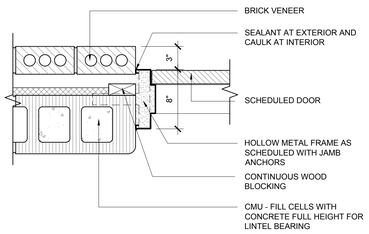
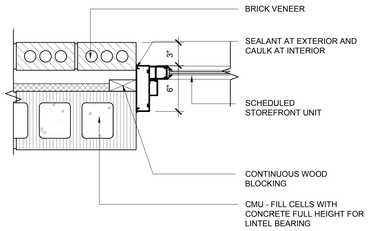


5 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



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



7 DOOR DETAIL
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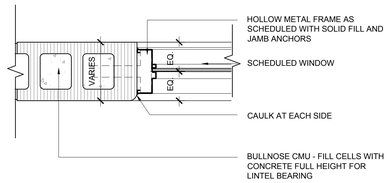

8 WINDOW DETAIL
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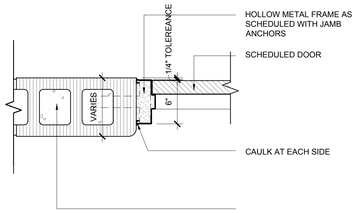

9 DOOR DETAIL
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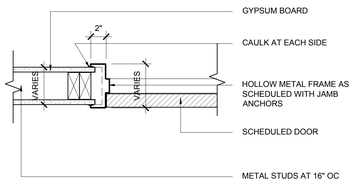

10 DOOR DETAIL
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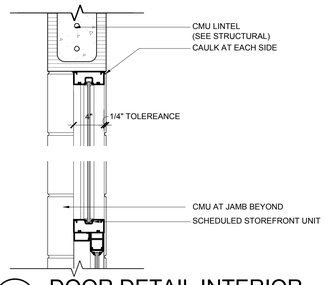
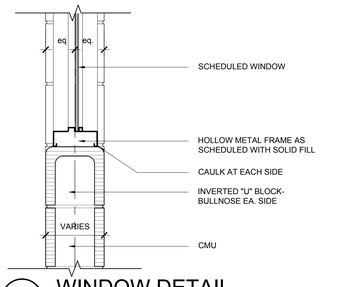
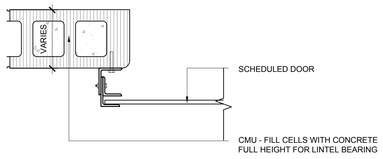


11 DOOR DETAIL INTERIOR
SCALE: 1 1/2"=1'-0" HEAD



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



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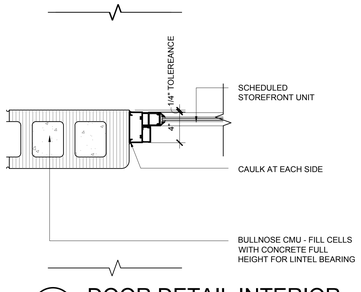

14 DOOR DETAIL INTERIOR
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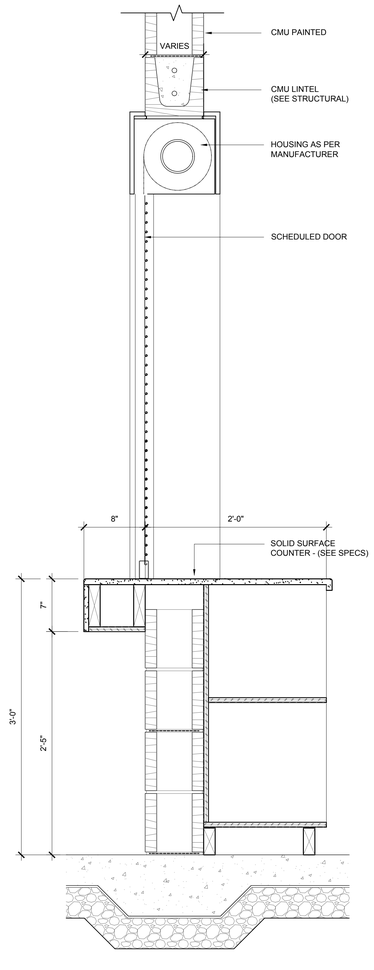

15 ROOL UP DOOR DETAIL
SCALE: 1 1/2"=1'-0"

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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : DOOR, WINDOW DETAILS

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

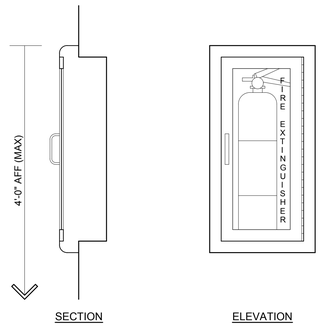
REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A8.4

- Thursday, March 07, 2024 4:20:07 PM



FIRE EXTINGUISHER CABINET (FEC)
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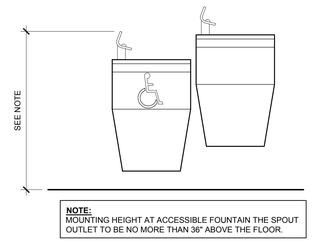

ELECTRIC WATER COOLER (EWC)
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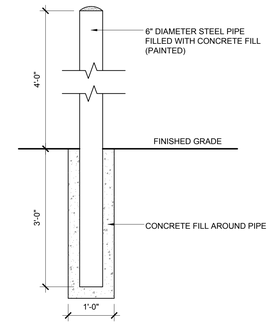

PIPE BOLLARD (PB)
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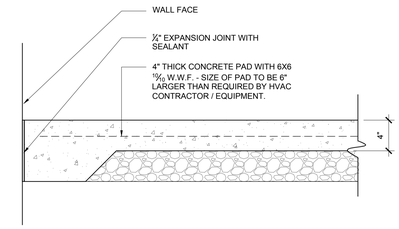

HVAC EQUIPMENT PAD (CEP)
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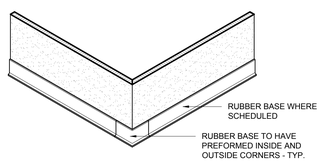

RUBBER BASE DETAIL
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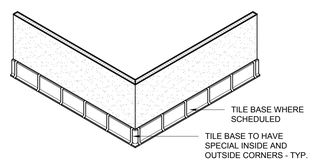

HARD TILE DETAIL
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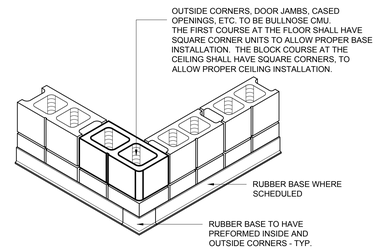

RUBBER BASE DETAIL
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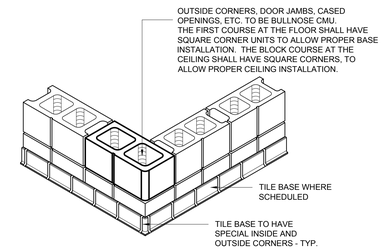

HARD TILE DETAIL
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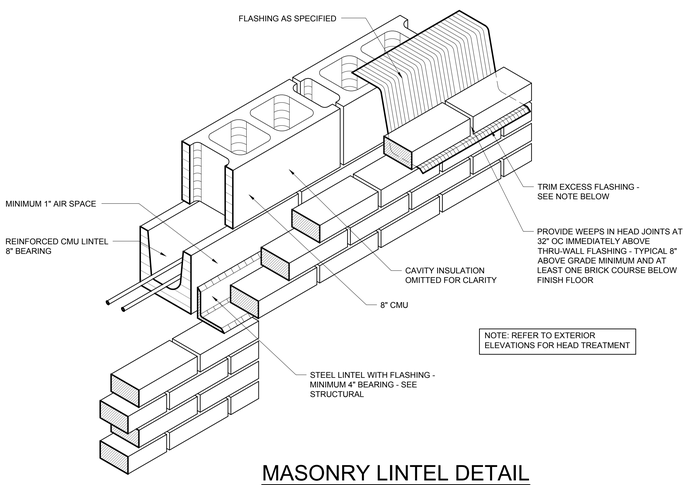
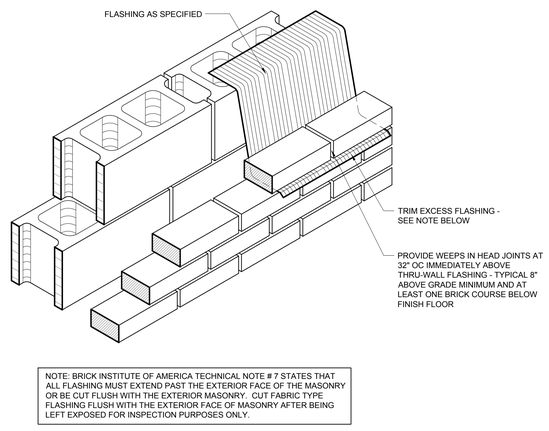


MASONRY LINTEL DETAIL
SCALE: 1 1/2" - 1'-0"



THRU-WALL FLASHING DETAIL
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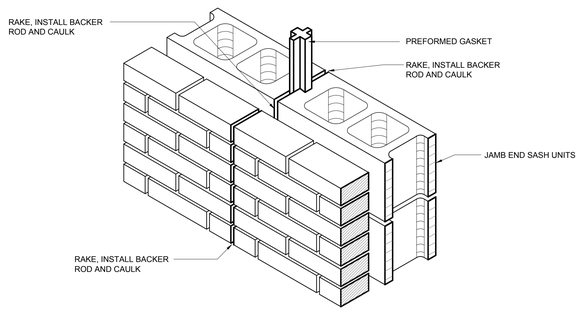

MASONRY CONTROL JOINT DETAIL (MCJ)
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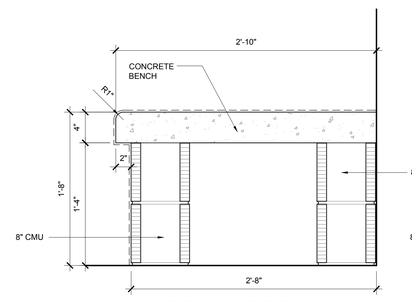

BENCH DETAIL
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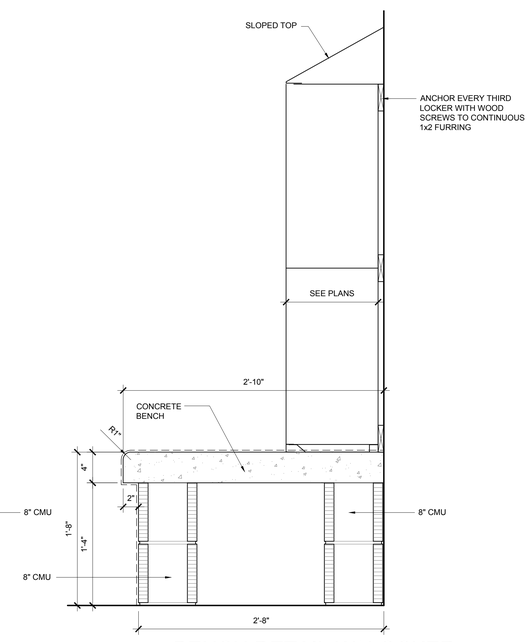

BENCH DETAIL W/ LOCKER
SCALE: 1 1/2" - 1'-0"

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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	MISCELLANEOUS DETAILS
MCKEE JOB # :	23.229
DRAWN BY :	KDD
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A9.1

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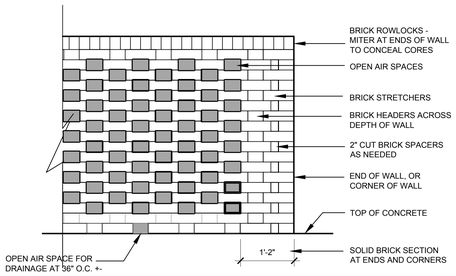
- Wednesday, March 06, 2024 2:48:21 PM



1 CONDENSING UNIT
SCREEN WALL ELEVATION
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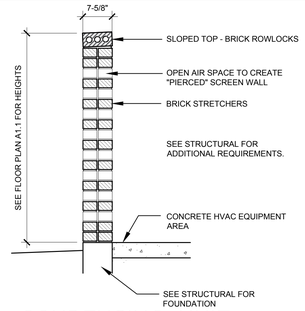
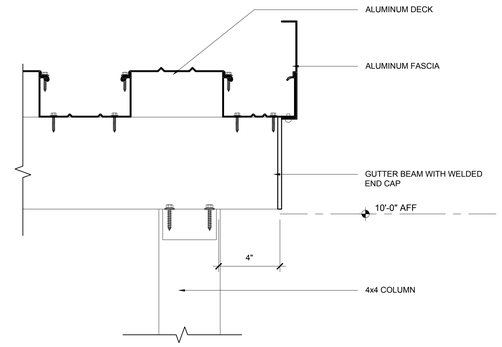
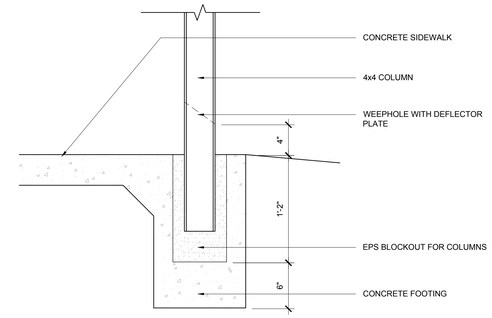


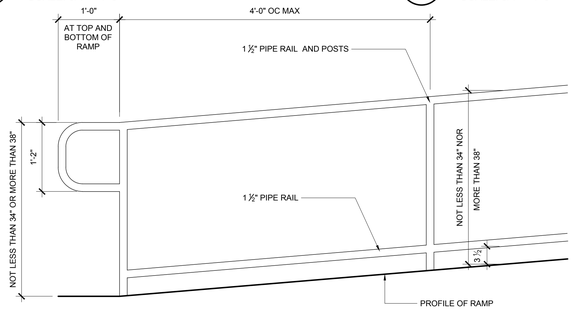
2 CONDENSING UNIT
SCREEN WALL SECTION
SCALE: 3/4" = 1'-0"



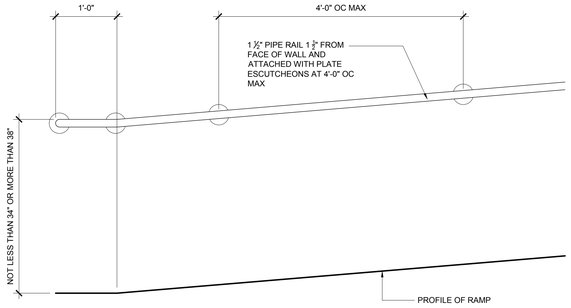
3 ALUMINUM CANOPY DETAIL (AC)
SCALE: 3" = 1'-0"



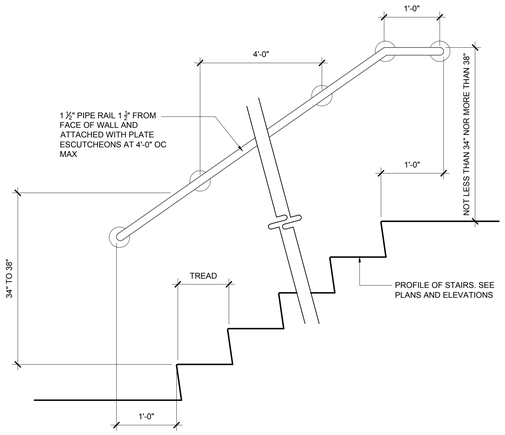
4 ALUMINUM CANOPY POST DETAIL (AC)
SCALE: 1-1/2" = 1'-0"



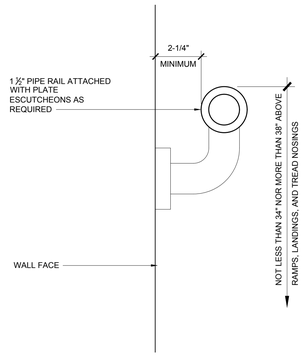
RAMP HANDRAIL (RHR)
SCALE: 1" - 1'-0"



WALL MOUNTED HANDRAIL AT RAMP (WHR)
SCALE: 1" - 1'-0"



WALL MOUNTED HANDRAIL AT STAIR (WMH)
SCALE: 1" - 1'-0"



WALL MOUNTED HANDRAIL SECTION AT WALL
SCALE: 6" - 1'-0"

CODE NOTES:

1) HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF AT LEAST 1-1/4 INCHES AND NOT MORE THAN 2 INCHES (IBC SECTION 1014.3.1).

2) INTERMEDIATE BALUSTERS, ORNAMENTAL PATTERNS OR PICKETS SHALL BE SPACED SUCH THAT A 4-INCH DIAMETER SPHERE SHALL NOT PASS THROUGH ANY OPENING. (IBC SEC 1015.4)

3) WALL HANDRAILS SHALL BE RETURNED TO THE WALL. THEY SHALL EXTEND HORIZONTALLY, AT THE REQUIRED HEIGHT. AT LEAST 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR A DISTANCE OF ONE TREAD BEYOND THE BOTTOM RISER. (IBC SEC 1014.6)

GENERAL NOTES:

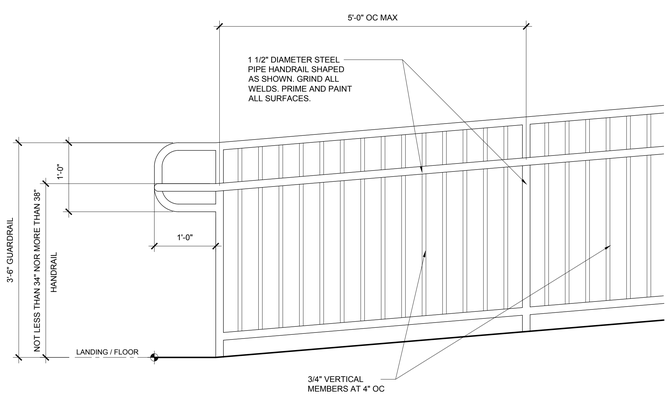
1) ALL HANDRAILS AND GUARDRAILS ARE TO BE CONSTRUCTED TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE INTERNATIONAL BUILDING CODE (IBC).

2) ALL WELDS ON METAL STAIRS AND RAILINGS ARE TO BE GROUND SMOOTH.

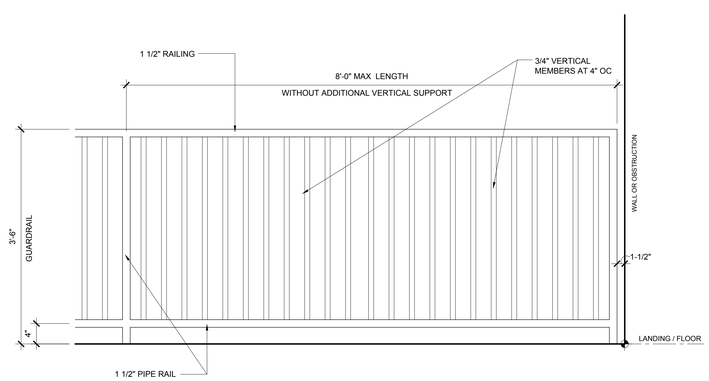
3) PRIME AND PAINT ALL EXPOSED STEEL OF METAL STAIRS AND RAILS.

4) FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION. AT ALL TRANSITIONS WITH THE FLOOR, PROVIDE ESCUTCHEONS OF THE SAME MATERIAL FOR CRAFTED APPEARANCE.

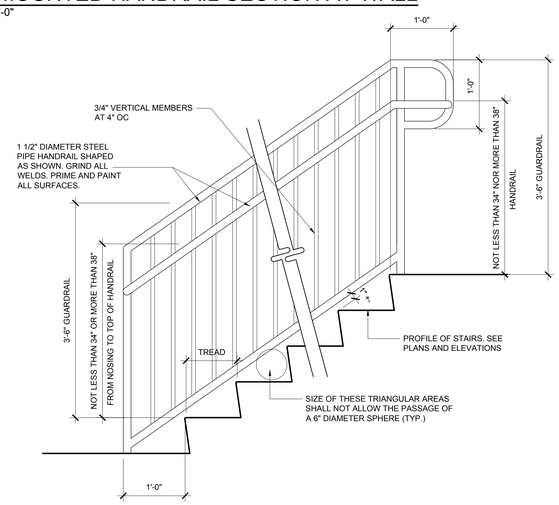
5) ALL RAILING COMPOSITIONS ARE TO BE EQUALLY SPACED ALONG A CONTINUOUS RUN. THE COMPOSITIONS ARE TO BE CENTERED WITHIN EACH PANEL-TYP. SEE PLANS FOR ADDITIONAL INFO.



METAL GUARDRAIL / HANDRAIL AT RAMP (GR/HR)
SCALE: 1" - 1'-0"



METAL GUARDRAIL (GR)
SCALE: 1" - 1'-0"



METAL GUARDRAIL / HANDRAIL AT STAIR (GR/HR)
SCALE: 1" - 1'-0"

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
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McKEE and ASSOCIATES
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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : MISCELLANEOUS DETAILS

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

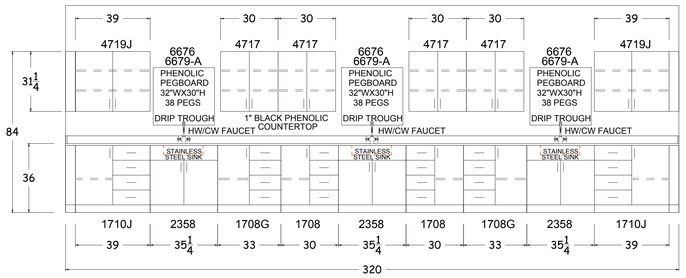
REVISED DATE:

REVISED DATE:

REVISED DATE:

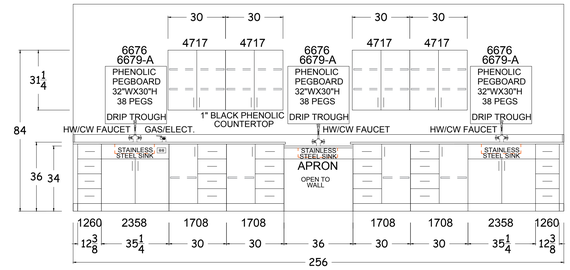
SHEET NO. : A9.2

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A9.2 Miscellaneous Details.dwg
- Wednesday, March 06, 2024 2:48:21 PM



A FLEX SCIENCE LAB 122 & 124

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



B FLEX SCIENCE LAB 122

2 CASEWORK ELEVATION
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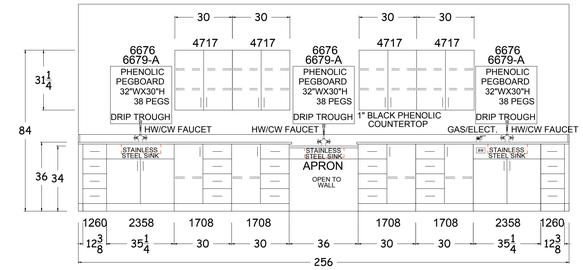

C FLEX SCIENCE LAB 124

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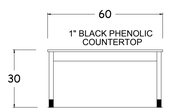

D FLEX SCIENCE LAB 122 & 124

4 CASEWORK ELEVATION
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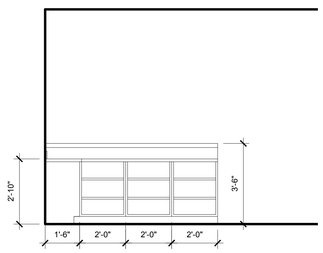

5 CASEWORK ELEVATION
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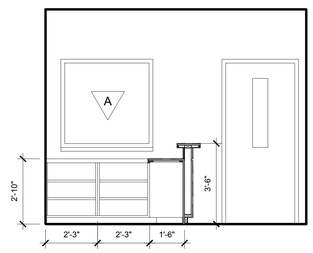

6 CASEWORK ELEVATION
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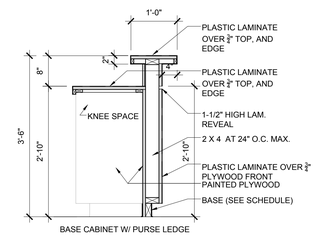
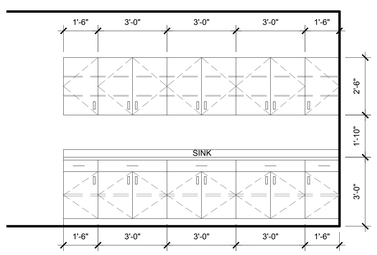


7 CASEWORK ELEVATION
SCALE: 3/4"=1'-0"
BASE CABINET W/ PURSE LEDGE



8 CASEWORK ELEVATION
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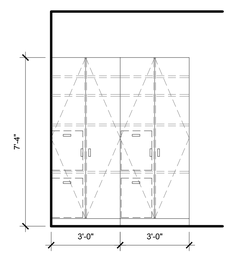

9 CASEWORK ELEVATION
SCALE: 3/8"=1'-0"

ADDITIONS
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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : CASEWORK - CLASSROOM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

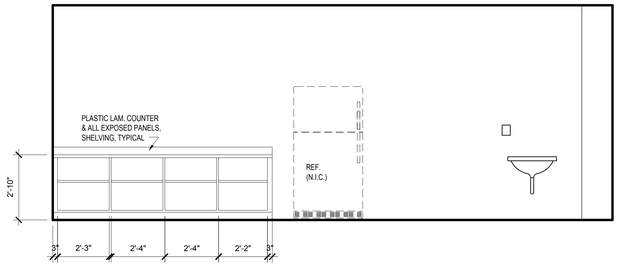
REVISED DATE:

REVISED DATE:

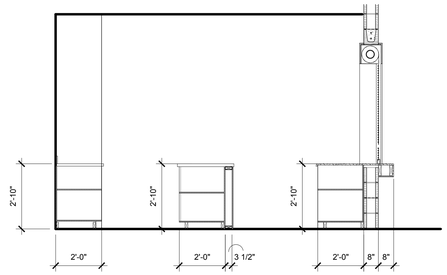
REVISED DATE:

SHEET NO. : A10.1

- /Users/kddarchitect/McKEE ASSOCIATES/Hatton HS Addition 23-229/A10.1 Casework CLASSROOM.dwg
- Wednesday, March 06, 2024 2:49:27 PM



1 CASEWORK ELEVATION
SCALE: 3/8"=1'-0" CONCESSION



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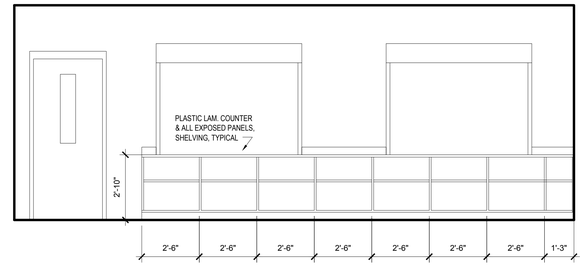
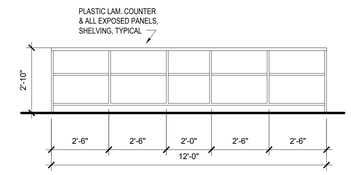


3 CASEWORK ELEVATION
SCALE: 3/8"=1'-0" CONCESSION



4 CASEWORK ELEVATION
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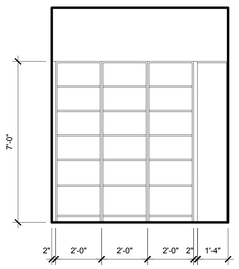
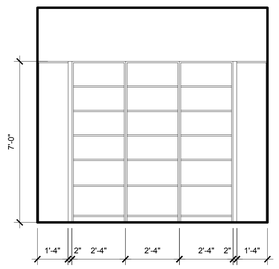
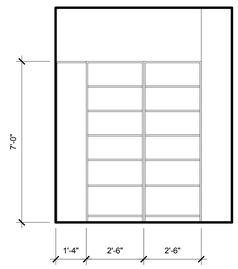


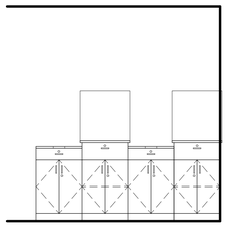
5 CASEWORK ELEVATION
SCALE: 3/8"=1'-0" STORAGE 228



6 CASEWORK ELEVATION
SCALE: 3/8"=1'-0" STORAGE 228

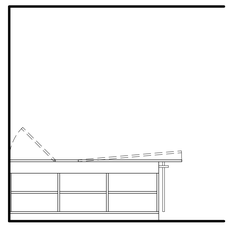


7 CASEWORK ELEVATION
SCALE: 3/8"=1'-0" STORAGE 228



8 TAPING STATION
SCALE: 3/8"=1'-0" TRAINING

9 TAPING STATION
SCALE: 3/8"=1'-0" TRAINING



10 TAPING STATION
SCALE: 3/8"=1'-0" TRAINING

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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : CASEWORK - GYMNASIUM

MCKEE JOB # : 23.229

DRAWN BY : KDD

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A10.2

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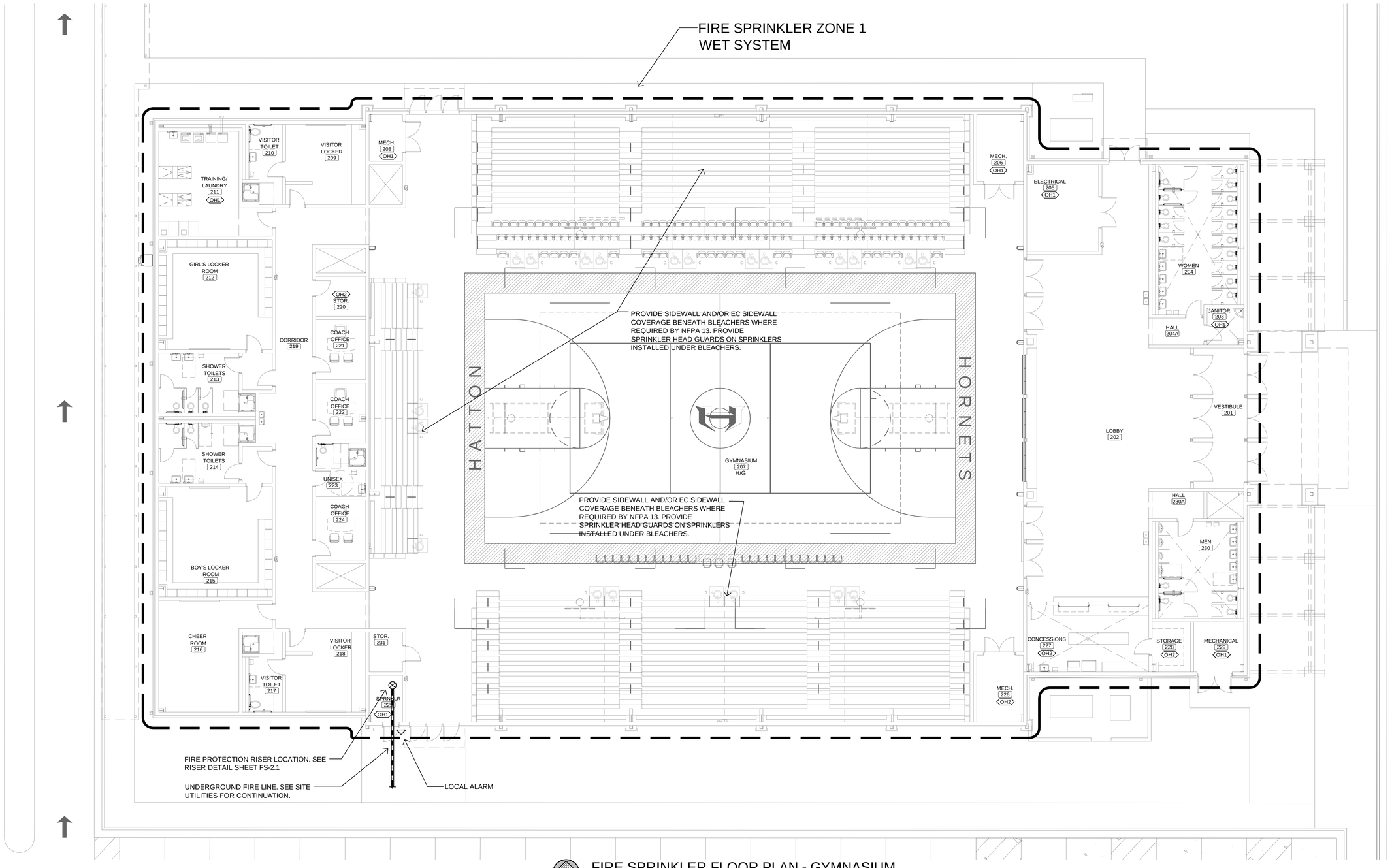
- Wednesday, March 06, 2024 2:49:27 PM

HAZARD CLASSIFICATION LEGEND

ALL AREAS /SPACES ARE LIGHT HAZARD IN ACCORDANCE WITH NFPA 13 UNLESS NOTED OTHERWISE.

SYMBOL	DESCRIPTION
OH1	ORDINARY HAZARD GROUP 1
OH2	ORDINARY HAZARD GROUP 2
EH1	EXTRA HAZARD GROUP 1
EH2	EXTRA HAZARD GROUP 2



FIRE SPRINKLER FLOOR PLAN - GYMNASIUM

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

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

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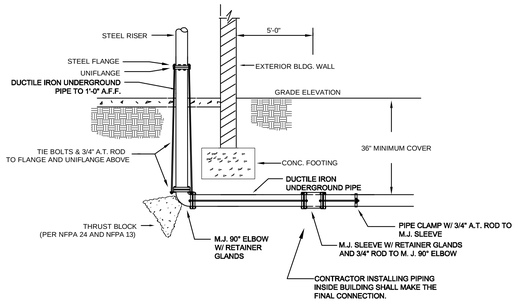
ALABAMA No. 25455 PROFESSIONAL ARCHITECT STATE OF ALABAMA REGISTERED

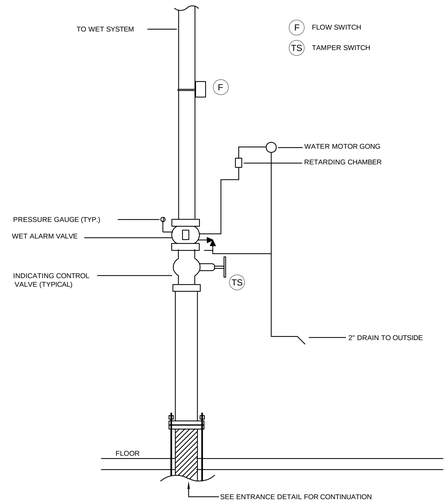
SHEET TITLE :	FIRE SPRINKLER FLOOR PLAN - GYMNASIUM
MCKEE JOB # :	23.229
DRAWN BY :	RS/SG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : FS1.1



FIRE PROTECTION ENTRANCE DETAIL

NO SCALE



FIRE SPRINKLER ZONE 1 RISER DETAIL

NO SCALE

NOTE TO CONTRACTOR :

1. A LOW VOLTAGE ELECTRIC BELL TIED INTO THE ALARM SYSTEM MAY BE USED IN LIEU OF THE ALARM VALVE AND WATER MOTOR & GONG. IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE THIS CHANGE WITH ELECTRICAL / FIRE ALARM CONTRACTOR.

2. FIRE SPRINKLER SYSTEM BACKFLOW DEVICE AND FIRE DEPARTMENT CONNECTION TO BE LOCATED AT THE POINT OF CONNECTION TO THE PUBLIC WATER MAIN. SEE CIVIL DIVISION DOCUMENTS FOR EXACT LOCATION AND ARRANGEMENT. F.D.C. THREADS TO MATCH LOCAL FIRE DEPARTMENT.

3. PROVIDE MEANS FOR FORWARD FLOW TESTING (2½" HOSE VALVE) AT SPRINKLER RISER WHERE OTHER MEANS ARE NOT PROVIDED.

GENERAL NOTES:

1. ALL FIRE PROTECTION STUB-INS SHALL BE 5'-0" OUTSIDE BUILDING TO 1'-0" A.F.F.
2. ALL UNDERGROUND PIPING SHALL BE INSTALLED, TESTED, AND FLUSHED PER N.F.P.A. 24 BEFORE CONNECTING TO OVERHEAD PIPING.
3. ALL MATERIALS AND INSTALLATION OF THIS AUTOMATIC SPRINKLER SYSTEM SHALL CONFORM TO N.F.P.A. 13, N.F.P.A. 101, AND/OR MANUFACTURER'S LISTING.
4. ALL OVERHEAD PIPING SHALL BE TESTED PER N.F.P.A. 13.
5. SPRINKLER SYSTEM SHALL BE PROTECTED AGAINST FREEZING.
6. LOW POINTS OF SYSTEM SHALL HAVE PROVISIONS FOR PROPER DRAINAGE.
7. ALL FERROUS - WELDED OR SEAMLESS STEEL PIPE SHALL MEET ANSI / ASTM A-53. WELDING BY CERTIFIED WELDER.
8. 24 HOUR SUPERVISION SHALL BE PROVIDED.
9. A SPARE HEAD CABINET SHALL BE PROVIDED WITH A MINIMUM OF 6 OF EACH TYPE OF SPRINKLER USED.
10. HYDRAULIC CALCULATIONS SHALL BE PERFORMED BY SPRINKLER CONTRACTOR. HYDRAULIC CALCULATIONS SHALL BE PER N.F.P.A. 13 AND BASED ON CURRENT FLOW TEST PERFORMED BY SPRINKLER CONTRACTOR.
11. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO CONDUCT & VERIFY WATER FLOW INFORMATION. CONTACT THE LOCAL WATER AUTHORITY AND/OR FIRE DEPARTMENT BEFORE PERFORMING THE TEST.
12. PLANS TO BE SUBMITTED TO STATE/LOCAL AUTHORITY, OWNER'S INSURANCE UNDERWRITER, AND ARCHITECT FOR APPROVAL.
13. SPRINKLER PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS OR TRANSFORMERS.
14. PROVIDE HANGERS ON ARMOVERS OVER 1'-0" LONG WHEN PRESSURE EXCEEDS 100 PSI. OTHERWISE,PROVIDE HANGERS ON ARMOVERS OVER 2'-0" LONG.
15. PROVIDE SPRINKLER HEAD GUARDS ON ALL SPRINKLERS SUBJECT TO MECHANICAL INJURY (NOTED BY H/G ON PLAN).
16. ALL SPRINKLERS SHALL BE LISTED AS QUICK RESPONSE.
17. VERIFY WITH ALL APPLICABLE CODES/STANDARDS, STATE, AND LOCAL AHJ, THE REQUIREMENTS FOR SPRINKLERS IN THE ELEVATOR IF PRESENT. COORDINATE WITH ALL OTHER TRADES THE LOCATION OF SPRINKLERS.
18. SEISMIC BRACING: REFER TO STRUCTURAL CONTRACT DOCUMENTS FOR INFORMATION REGARDING OVERALL SEISMIC DESIGN CATEGORY FOR THE BUILDING. WHERE SEISMIC DESIGN CATEGORY IS "C THROUGH "F", PROVIDE SEISMIC BRACING IN ACCORDANCE WITH 2013 EDITION OF NFPA 13. SEISMIC BRACING IS NOT REQUIRED WHERE SEISMIC DESIGN CATEGORY IS "A", OR "B".

SPRINKLER SYSTEM SCHEDULE

ROOM OR AREA	SYSTEM TYPE	OCCUPANCY CLASSIFICATION	DENSITY GPM/SQ.FT.	CALCULATED AREA SQ.FT.	GPM HOSE ALLOWANCE
GYMNASIUM, OFFICES, LOCKER ROOMS, TOILETS, CLOSETS, LOBBY, ETC.	WET PIPE	LIGHT	.10	1500	100
MECHANICAL, ELECTRICAL, JANITOR, UNASSIGNED, UNFINISHED, ETC.	WET PIPE	ORDINARY 1	.15	1500	250
STORAGE ROOMS, CONCESSION, ETC.	WET PIPE	ORDINARY 2	.20	1500	250

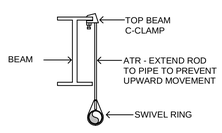
NOTES

1. ALL AREAS, INCLUDING TOILETS AND CLOSETS, SHALL BE PROTECTED PER NFPA-13 AND ALL AUTHORITIES HAVING JURISDICTION UNLESS NOTED.

2. EXACT LOCATION OF SPRINKLERS AND PIPING SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADES BY SPRINKLER CONTRACTOR.

3. PIPE SIZES SHALL BE PER SPRINKLER CONTRACTOR HYDRAULIC CALCULATIONS.

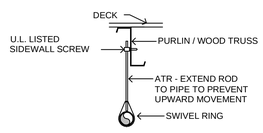
4. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS, IN WALLS, AND IN PIPE CHASES. EXPOSED PIPING PERMITTED ONLY IN MECHANICAL ROOMS, OR EQUIVALENT SPACES WITHOUT DROP CEILINGS. EXPOSED PIPING IN PUBLIC SPACES SHALL BE PAINTED. COLOR TO BE SPECIFIED BY OWNER.



HANGER DETAIL

NO SCALE

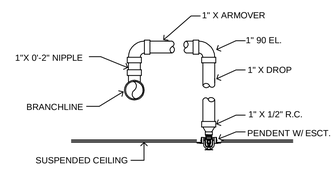
NOTE : ALL HANGER ASSEMBLIES TO BE U.L. LISTED



HANGER DETAIL

NO SCALE

NOTE : ALL HANGER ASSEMBLIES TO BE U.L. LISTED



TYP. RETURN BEND ASSEMBLY

NO SCALE

NOTE : ALL SPRINKLERS IN LAY-IN CEILINGS TO BE CENTERED BOTH WAYS

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SHEET TITLE : FIRE SPRINKLER NOTES & DETAILS

MCKEE JOB # : 23.229

DRAWN BY : RS/SG

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : FS2.1

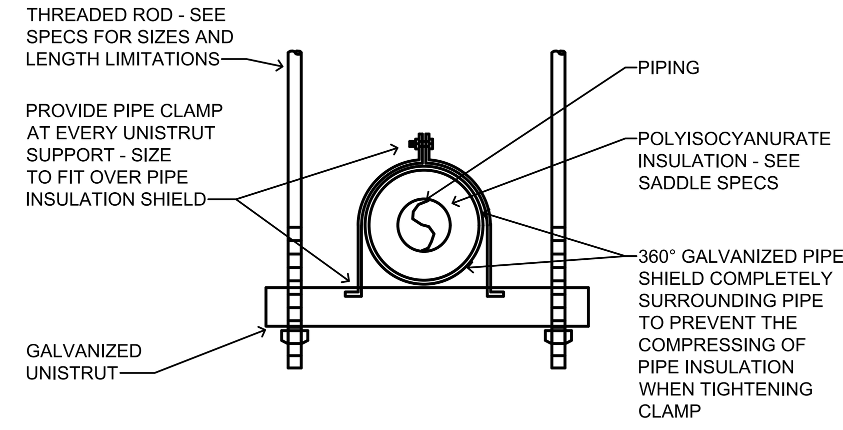
PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P1	WATER CLOSET	3"	1"	---	FL. MTD. - REG.
P2	ADA WATER CLOSET	3"	1"	---	FL. MTD. - ADA
P3	URINAL	2"	3/4"	---	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P4	ADA LAVATORY **	1 1/4"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P5	MOP BASIN	3"	1/2"	1/2"	FL. MTD. CORNER TYPE
P6	SPLIT LEVEL EWC	1 1/2"	1/2"	---	WALL HUNG - HIGH/LOW
P7	WASHING MACHINE BOX	2"	1/2"	1/2"	W/ INTEGRAL SHOCK ARRESTER
P8	ADA SHOWER	SD	1/2"	1/2"	---
P9	EYEWASH	1-1/2"	N/A	N/A	SEE SPECS
P10	REFRIG. ICE MAKER	---	1/2"	---	ROUGH-IN AND CONN.
P11	HAND SINK	1-1/2"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P12	LAUNDRY SINK	1-1/2"	1/2"	1/2"	--
P13	ICE MACHINE	FS	1/2"	--	ROUGH-IN AND CONN.
P14	1-COMP ADA SINK	1-1/2"	1/2"	1/2"	1-COMP ADA SINK - COUNTER MOUNTED
T.P.	TRAP PRIMER	---	1/2"	---	CONNECT TO FLOOR DRAIN AS SPECIFIED

** PROVIDE A WATER TEMPERATURE LIMITING DEVICE (ASSE 1070 MIXING VALVE) WITH 1/2" TEMPERED WATER LINE TO FAUCET - SEE SPECS FOR REQUIREMENTS

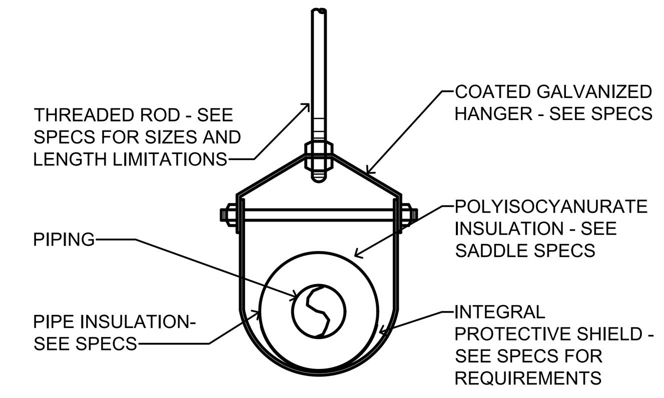
LEGEND

———	WASTE PIPE
— — —	VENT PIPE
— - —	COLD WATER PIPE
— -- —	HOT WTR. PIPE (125°)
— - - —	HOT WTR. RECIRC. PIPE
—G—	GAS PIPE
—S—	STORM WATER PIPE
—AR—	ACID RESIST. WASTE PIPE
—AR— —	ACID RESIST. VENT PIPE
	UNION
	GATE VALVE
	CHECK VALVE
	BALL VALVE
B.V.	BALL VALVE
C.I.	CAST IRON
C.O.	CLEANOUT
D.S.	DOWNSPOUT
FCO	FLOOR CLEANOUT
F.D.	FLOOR DRAIN
M.F.D.	MECH. FLOOR DRAIN
K.F.D.	KITCHEN FLOOR DRAIN
F.S.	FLOOR SINK
G.V.	GATE VALVE
H/C	HANDICAPPED
H.D.	HUB DRAIN
H.B.	HOSE BIBBS
W.H.	WALL HYDRANT
R.D.	ROOF DRAIN
T.P.	TRAP PRIMER
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
VSTR	VENT STACK THRU ROOF
VSTW	VENT STACK THRU WALL
W&V	WASTE AND VENT
	INDICATES POINT OF CONNECTION TO EXISTING
	INDICATES POINT OF CONNECTION TO OUTSIDE UTILITY. SEE CIVIL DWGS..



TYPICAL UNISTRUT HANGER DETAIL

NO SCALE



TYPICAL PIPE HANGER DETAIL

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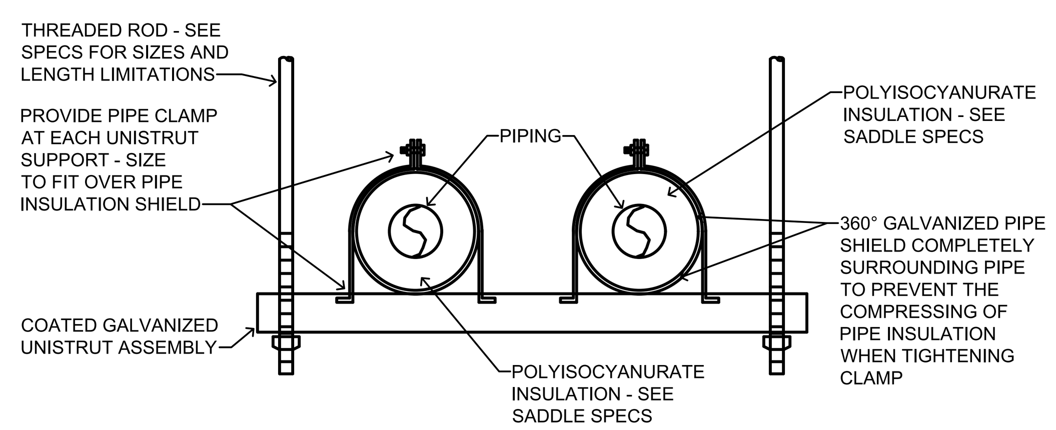
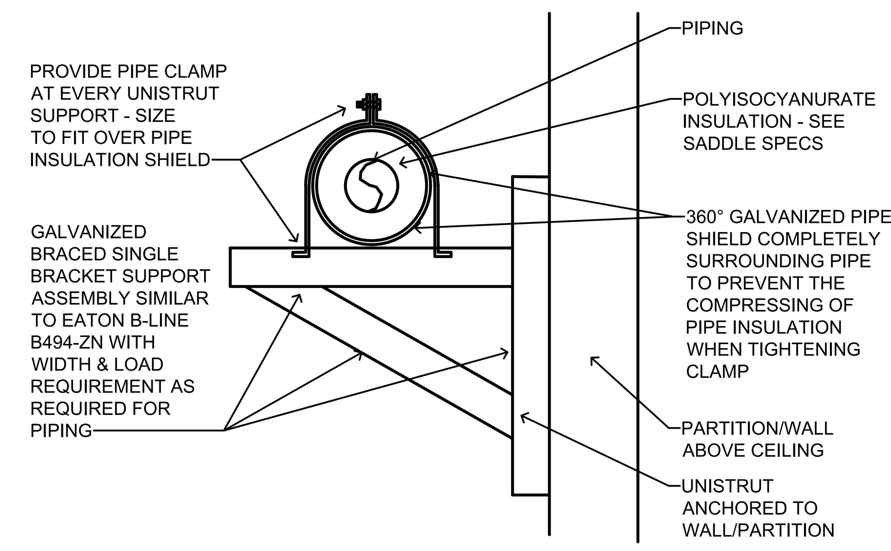


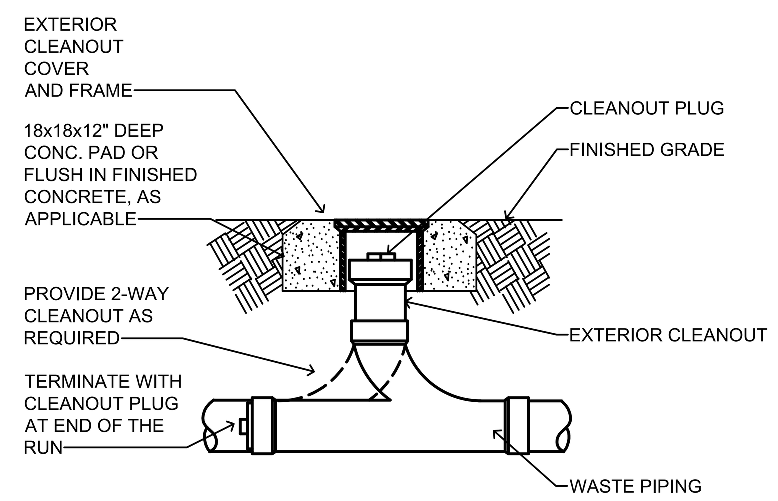
TYPICAL MULTIPLE PIPES HANGER DETAIL

NO SCALE



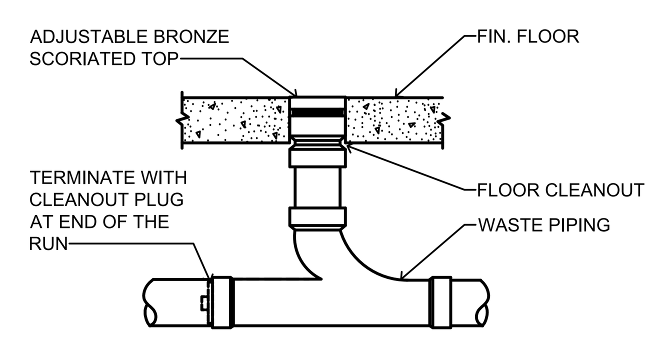
TYPICAL HORIZONTAL UNISTRUT PIPING SUPPORT DETAIL AT ABOVE CEILING PARTITION

NOTES:
1. MULTIPLE PIPES SIMILAR.
2. SUPPORT SPACING TO BE AS SPECIFIED FOR UNISTRUT ASSEMBLIES.
3. MANUFACTURER'S SADDLE LABEL WITH LOGO STICKER SHALL BE APPLIED TO EACH SADDLE AND SHALL BE VISIBLE FOR VERIFICATION OF PROPER INSTALLATION.
4. THREE DETAILS INDICATED ARE PREFERRED. OPTION FOR PIPING SUPPORT WHEN HANGER RODS EXCEED 36" TO STRUCTURE ABOVE CEILING.
5. COORDINATE UNISTRUT ATTACHMENTS/ANCHORS TO WALL WITH ARCHITECT'S SPECIFICATIONS FOR TYPE OF WALL INSTALLED AND PROVIDE ANCHORS/ATTACHMENTS AS REQUIRED.
6. VERTICAL RISER ASSEMBLY SIMILAR.



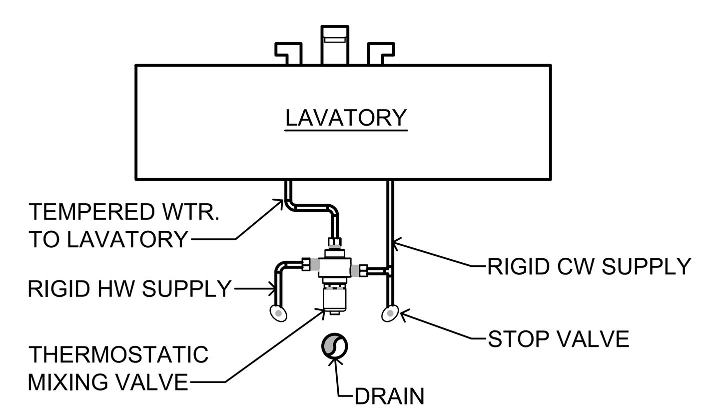
TYP. EXTERIOR CLEANOUT DETAIL

NO SCALE



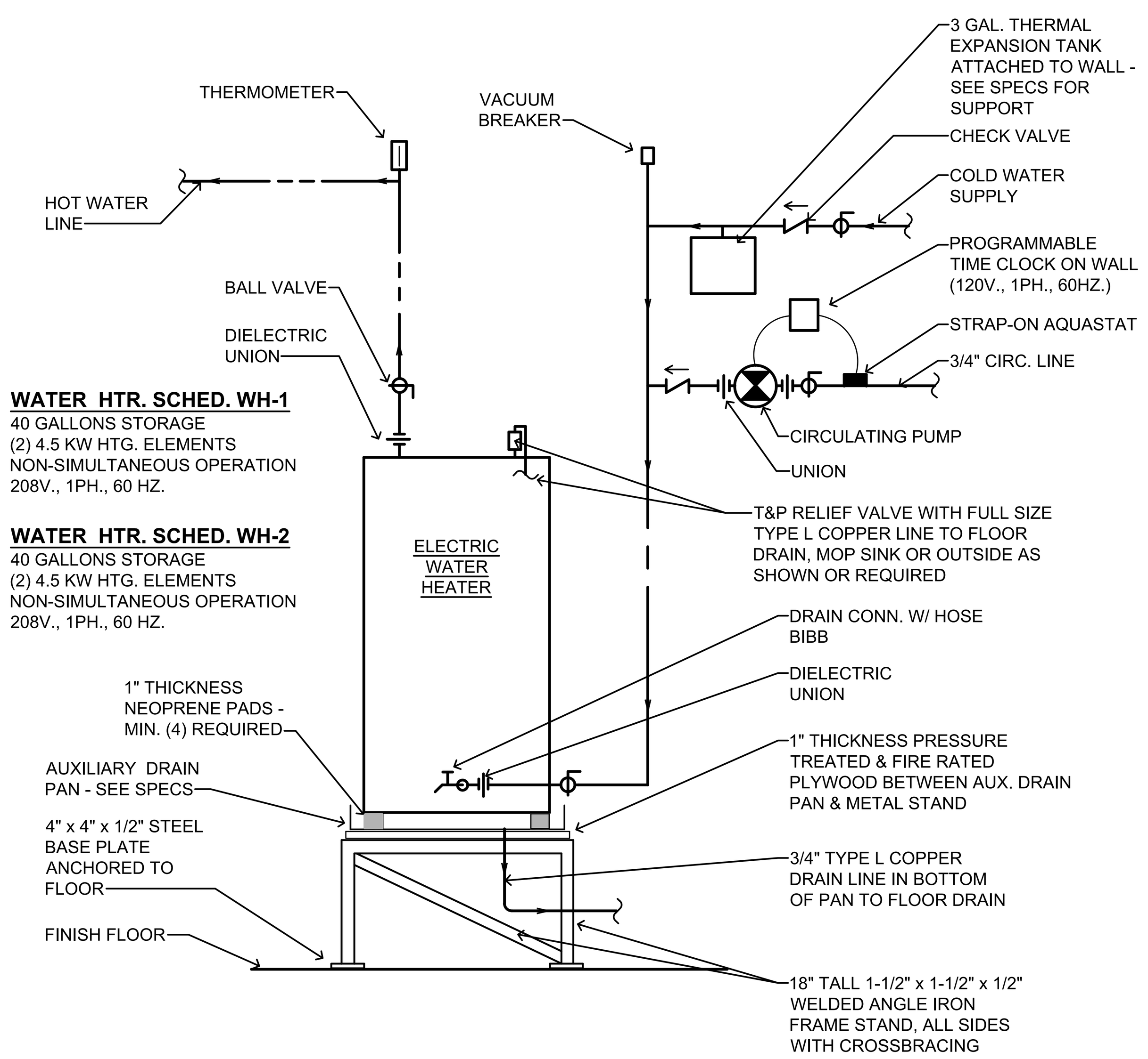
TYP. FLOOR CLEANOUT DETAIL

NO SCALE



DETAIL OF TMV BELOW LAVATORY

NO SCALE



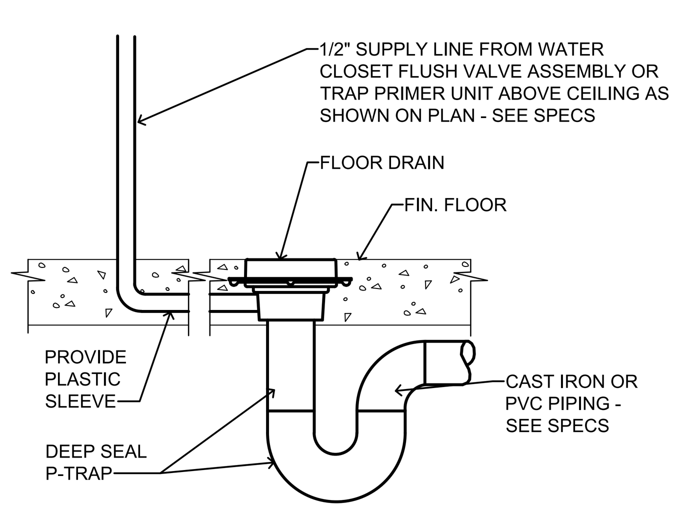
WATER HTR. SCHED. WH-1
40 GALLONS STORAGE
(2) 4.5 KW HTG. ELEMENTS
NON-SIMULTANEOUS OPERATION
208V., 1PH., 60 HZ.

WATER HTR. SCHED. WH-2
40 GALLONS STORAGE
(2) 4.5 KW HTG. ELEMENTS
NON-SIMULTANEOUS OPERATION
208V., 1PH., 60 HZ.

WATER HEATER DETAIL

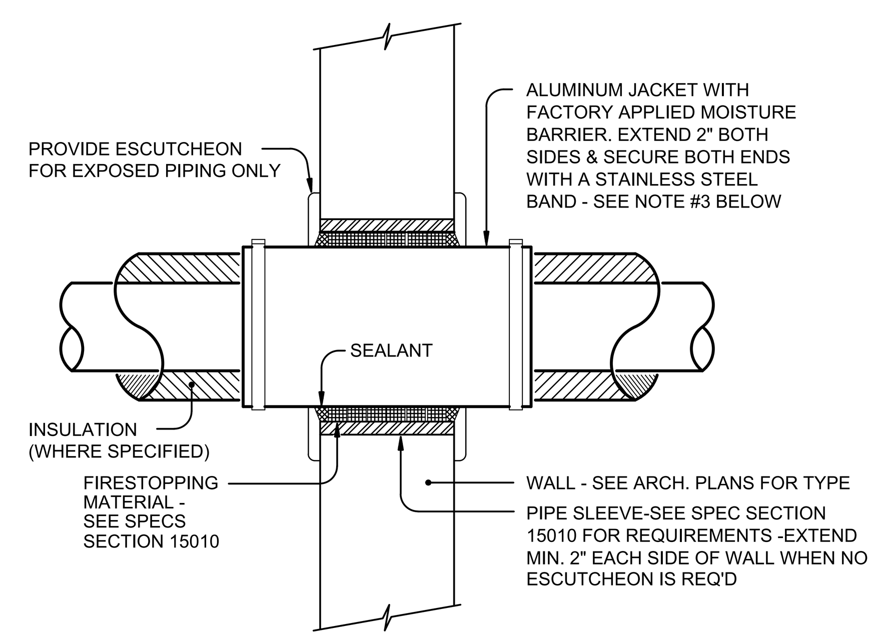
NO SCALE

NOTES:
1. PREFABRICATED STANDS ARE NOT ALLOWED.
2. CONTRACTOR MAY SUBSTITUTE A 6" THICKNESS, 6,000 PSI HOUSEKEEPING PAD WITH ROUNDED EDGES IN PLACE OF THE ANGLE IRON STAND PROVIDED THE ARCHITECT APPROVES THE USE OF THE CONC. PAD.
3. IF HOUSEKEEPING PAD IS PROVIDED, INSTALL 3/4" TREATED PLYWOOD BETWEEN AUX. PAN AND CONCRETE PAD - AUX. PAN SHALL NOT BE IN CONTACT WITH CONCRETE.
4. IF HOUSEKEEPING PAD IS PROVIDED, NEOPRENE PADS THICKNESS SHALL BE AS REQUIRED TO RAISE BOTTOM OF WATER HEATER TO ABOVE DRAIN LINE DISCHARGE - MIN. 4 PADS REQUIRED.



TRAP PRIMER DETAIL

NO SCALE



INTERIOR WALL PIPE PENETRATION DETAIL

NOT TO SCALE

NOTES:
1. DETAIL APPLIES TO ALL WATER PIPING.
2. SEE SPECS FOR SLEEVE REQUIREMENTS
3. OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED
4. ONLY ONE PIPE PER SLEEVE ALLOWED.
5. WHERE PIPING IS EXPOSED IN FINISHED AREAS, PROVIDE ESCUTCHEONS OVER PENETRATIONS AND DELETE REQUIREMENT FOR EXTENDING SLEEVE 2" ON EACH SIDE. ALUMINUM JACKET IS STILL REQUIRED.

GENERAL PLUMBING NOTES

1. ROUGH IN WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
2. ADA FIXTURES AND INSTALLATION SHALL COMPLY WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
3. FLUSH VALVE HANDLE FOR ALL MANUAL FLUSH WATER CLOSETS SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AS REQUIRED BY CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
4. ROUGH-IN ADA WATER CLOSETS 18" FROM FINISHED WALL TO CENTERLINE OF THE WATER CLOSET. MEASURE FROM FACE OF SHORT SIDE OF THE STALL TO THE FINISHED WALL.
5. PROVIDE A CAST IRON DEEP SEAL P-TRAP FOR EACH FLOOR DRAIN AND HUB DRAIN WITH TRAP PRIMER AS SPECIFIED.
6. ROUTE ALL OVERHEAD WATER PIPING AND WATER PIPING WITHIN NON-MASONRY WALLS WITHIN THE BUILDING INSULATION ENVELOPE.
7. ALL WATER PIPING WITHIN MASONRY WALLS SHALL BE INSULATED AS SPECIFIED.
8. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR (WARM) SIDE OF THE BUILDING EXTERIOR WALL INSULATION
9. COORDINATE ALL PIPING RUNS WITH THE ELECTRICAL PLANS AND THE ELECTRICAL CONTRACTOR. DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR, ETC. MAINTAIN CLEARANCES AS REQUIRED BY RESPECTIVE CODES.
10. ALL PIPING AND FITTINGS ROUTED IN/THROUGH RETURN AIR PLENUMS, RETURN AIR PLATFORMS, OR FIRE RATED PARTITIONS AND ENCLOSURES SHALL BE CAST IRON OR PVDF. SEE SPECS.
11. PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10'-0" DISTANCE FROM ALL HVAC OUTSIDE AIR INTAKES.
12. PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER INTERNATIONAL PLUMBING CODE AND THE SPECIFICATIONS. CLEANOUTS SHALL BE HIGH ENOUGH TO CLEAR THE TILE BASE WITHOUT CUTTING OF THE BASE AND SHALL BE LOCATED WITHIN THE SPECIFIED PIPING ENCLOSURE FOR ALL WALL MOUNTED LAVATORIES AND WALL MOUNTED HAND SINKS WHEN POSSIBLE.
13. LOCATE CLEANOUTS TO THE SIDE OF THE WATER CLOSETS WITH A MINIMUM CLEARANCE OF 6" FROM THE ROUGH-IN OF THE WATER CLOSETS. PREFERRED LOCATION IS IN ADA STALL TO ALLOW FOR ADDITIONAL ACCESS SPACE.
14. WATER SUPPLY SYSTEM IS DESIGNED FOR A STATIC PRESSURE OF 50 TO 75 PSI. GAUGE WATER SUPPLY PRESSURE AND VERIFY PRESSURE IS WITHIN THE SPECIFIED LIMITS. PROVIDE WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN WATER PRESSURE WITHIN DESIGN LIMITS.
15. PROVIDE A BALL VALVE ON ONE SIDE OF EVERY DIELECTRIC UNION AS REQUIRED TO FACILITATE ITS REMOVAL.
16. TOPS OF ALL OUTSIDE CLEANOUTS SHALL BE FLAT AND BROUGHT TO GRADE AND FINISHED FLUSH IN 12x12x12 CONCRETE PAD.
17. ALL INTERIOR AND EXTERIOR WALL HYDRANTS AND HOSE BIBBS SHALL BE LOCATED 24" A.F.F. COORDINATE FINAL HEIGHT OF INDOOR WALL HYDRANTS WITH ARCHITECTURAL CABINET PLANS PRIOR TO ROUGHING IN.
18. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL SOLENOID, REMOTE OPERATED OR QUICK CLOSING VALVES AND AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURES. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
19. ALL HUB DRAINS THAT RISE THROUGH RETURN AIR PLATFORMS SHALL BE INSULATED CAST IRON, SHALL BE TERMINATED TO 6" ABOVE THE RETURN AIR PLATFORM AND SEALED AIR TIGHT. COORDINATE REQUIREMENT WITH MECHANICAL CONTRACTOR.
20. ALL PIPING WITH VALVES AND OTHER ITEMS THAT MAY REQUIRE MAINTENANCE, SERVICE OR REPLACEMENT, SHALL BE LOCATED NO MORE THAN 12" ABOVE THE FINISHED CEILING AND NO MORE THAN 14'-0" ABOVE FINISH FLOOR IN AREAS WITHOUT CEILINGS, TO ENSURE PROPER ACCESS. PROVIDE DROPS IN PIPING AS REQUIRED FOR COMPLIANCE.
21. IPC 704.1 REQUIRES ALL DRAINAGE PIPING UPSTREAM OF A GREASE INTERCEPTOR TO BE SLOPED AT 1/4" PER FOOT (2% SLOPE).

ADDITIONS
TO
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J. R. EIRING, PROFESSIONAL ENGINEER, No. 23369, 03.06.24

ZEA
ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

SHEET TITLE : PLBG. SCHEDULES, NOTES AND DETAILS

MCKEE JOB # : 23.229

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : P1.0

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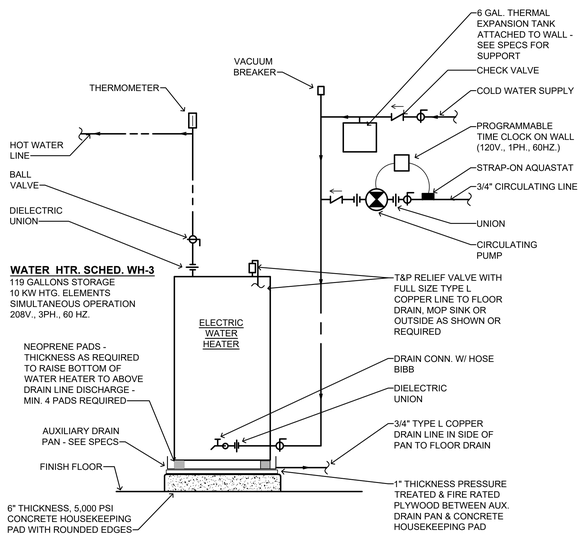
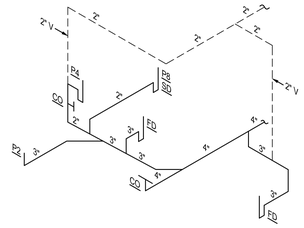
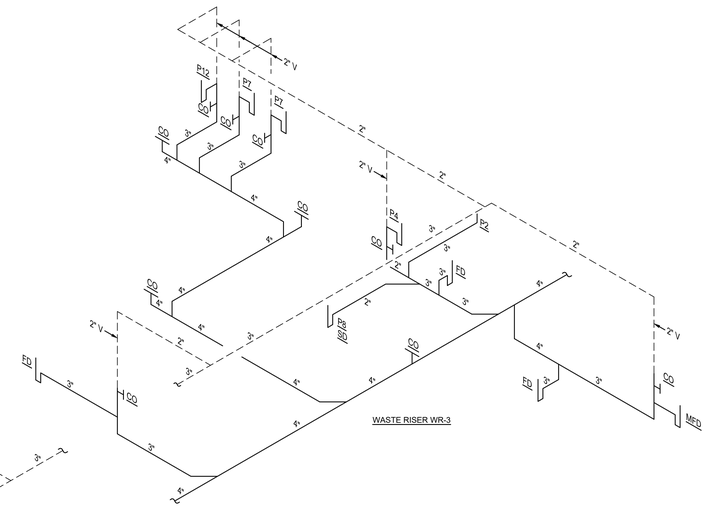


WATER HEATER DETAIL

NO SCALE



WASTE RISER WR-1



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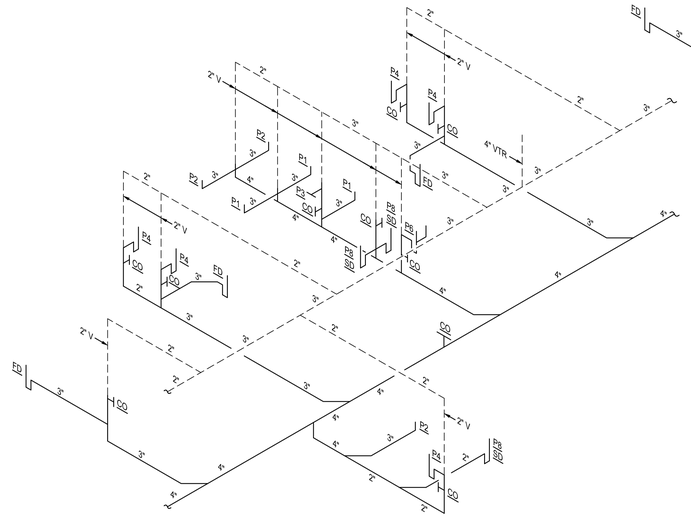

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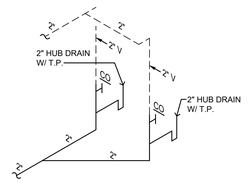

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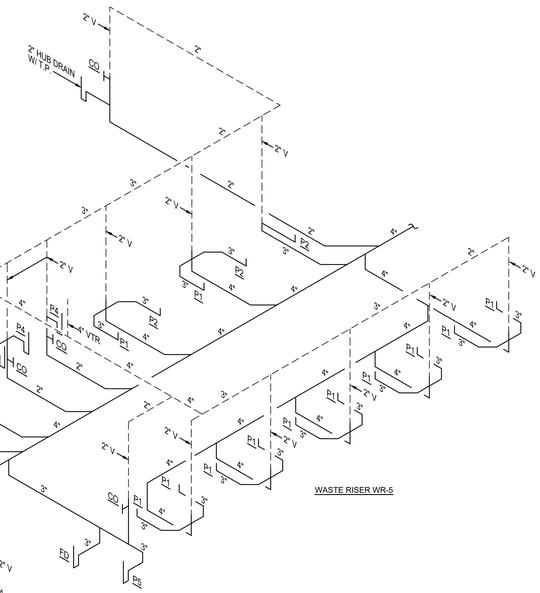

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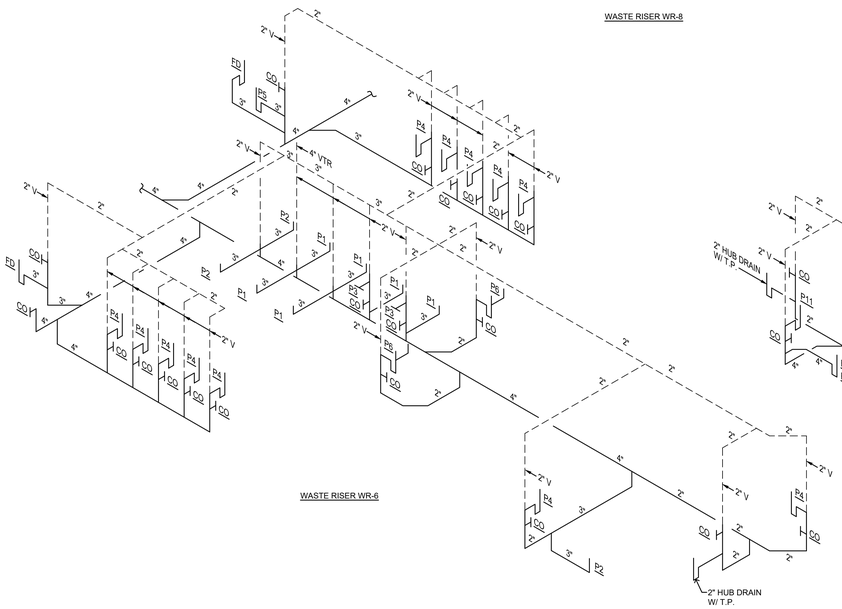

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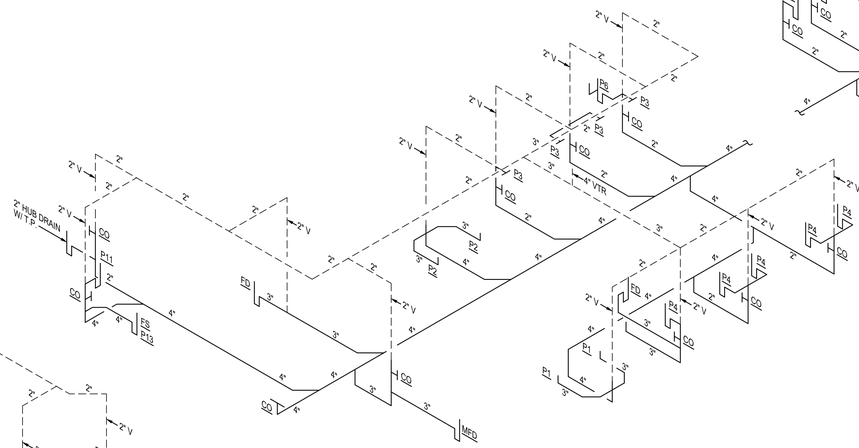

WASTE RISER WR-4

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SHEET TITLE :	PLBG. SCHEDULES, NOTES AND DETAILS
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
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REVISED DATE:	

ZEA
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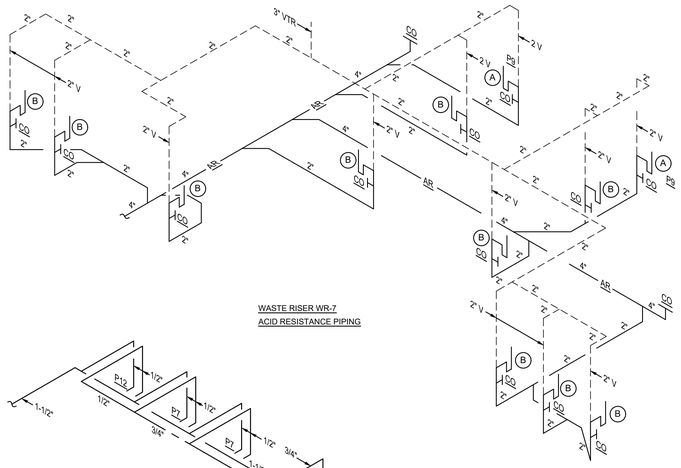

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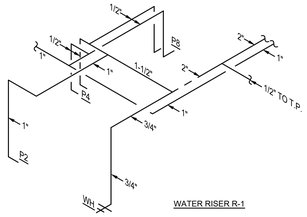
ACID RESISTANCE PIPING



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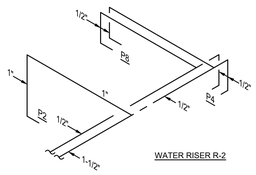

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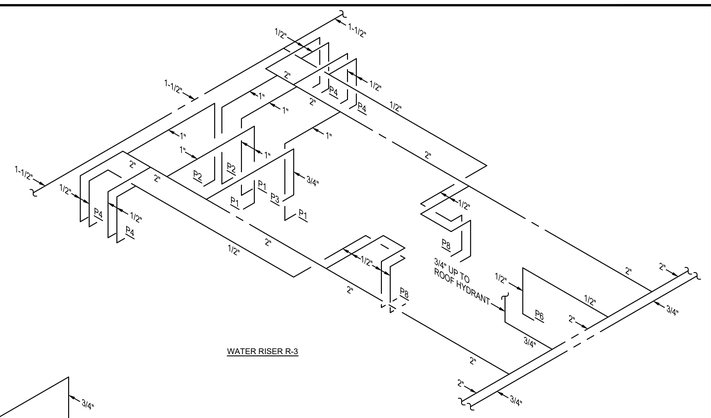
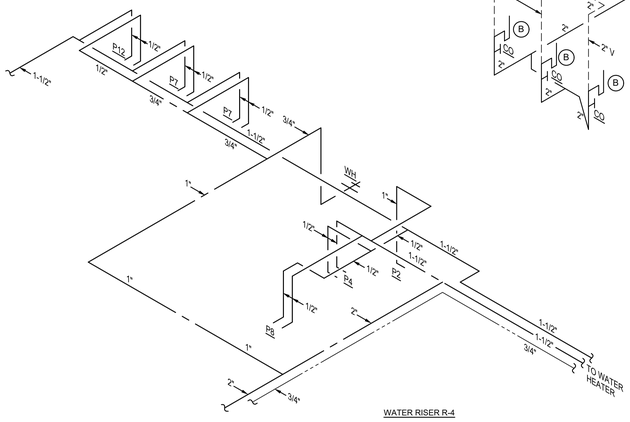


WATER RISER R-3



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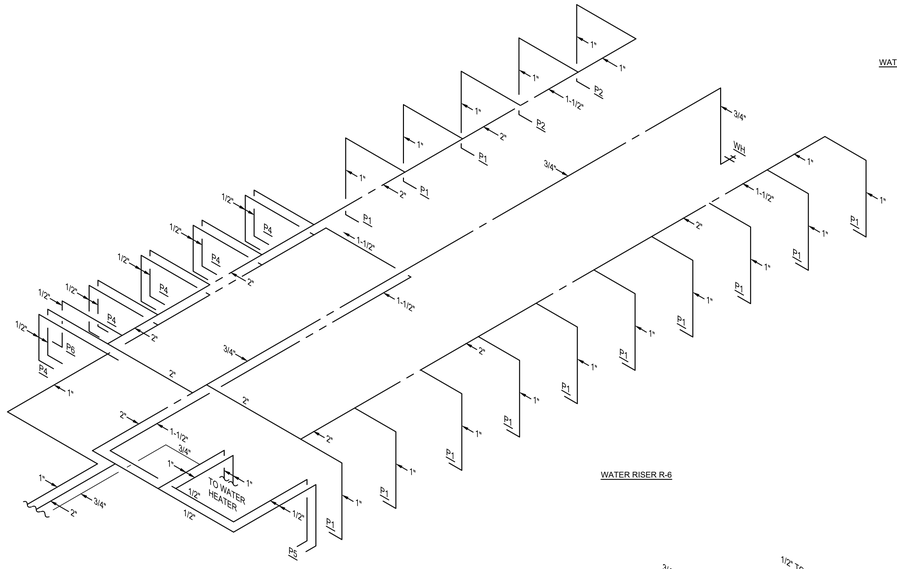

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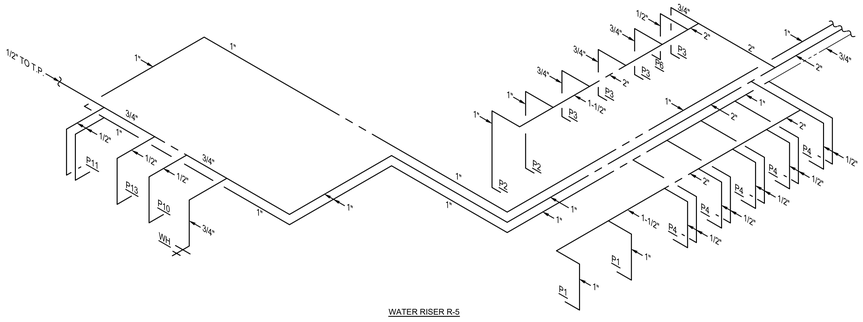
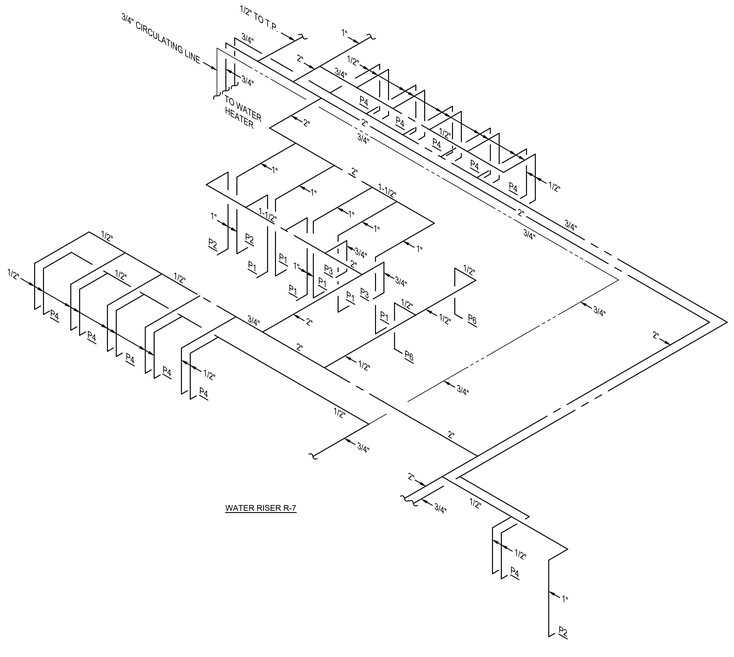
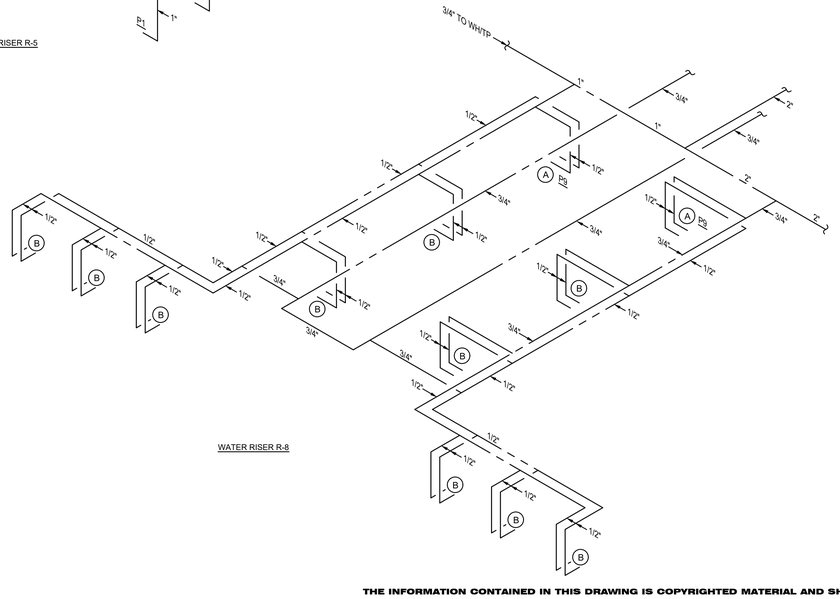


WATER RISER R-5



WATER RISER R-7



WATER RISER R-8

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

JOHN R. EIRING
No. 23369
PROFESSIONAL
03.06.24
ENGINEER
ALABAMA
J.R. EIRING

SHEET TITLE :	PLBG. RISERS
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

ZEA
ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

SHEET NO. : P1.2

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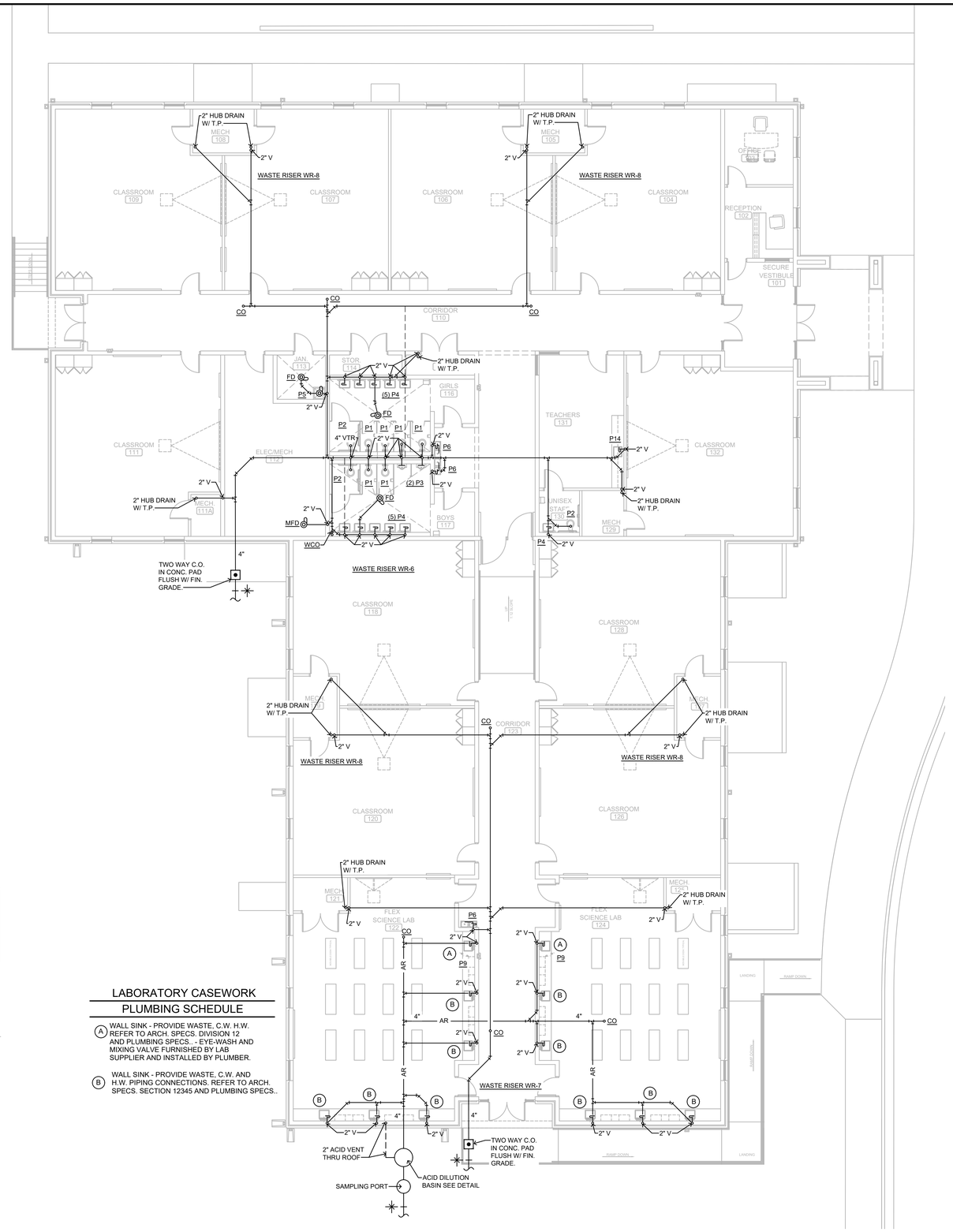

LABORATORY CASEWORK PLUMBING SCHEDULE

(A) WALL SINK - PROVIDE WASTE, C.W. H.W. REFER TO ARCH. SPECS. DIVISION 12 AND PLUMBING SPECS. - EYE-WASH AND MIXING VALVE FURNISHED BY LAB SUPPLIER AND INSTALLED BY PLUMBER.

(B) WALL SINK - PROVIDE WASTE, C.W. AND H.W. PIPING CONNECTIONS. REFER TO ARCH. SPECS. SECTION 12345 AND PLUMBING SPECS..

N W E S

SHOWING WASTE PIPING

PLBG. FLOOR PLAN - CLASSROOM BLDG.

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

0' 2' 4' 8' 16' 32'

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION MOULTON, ALABAMA

McKEE and ASSOCIATES ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 23369 03.06.24 J. R. EIRING

SHEET TITLE :	PLBG. FLOOR PLAN - CLRM. BLDG. - SHOWING WASTE PIPING
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

ZEA
ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

SHEET NO. : P2.0

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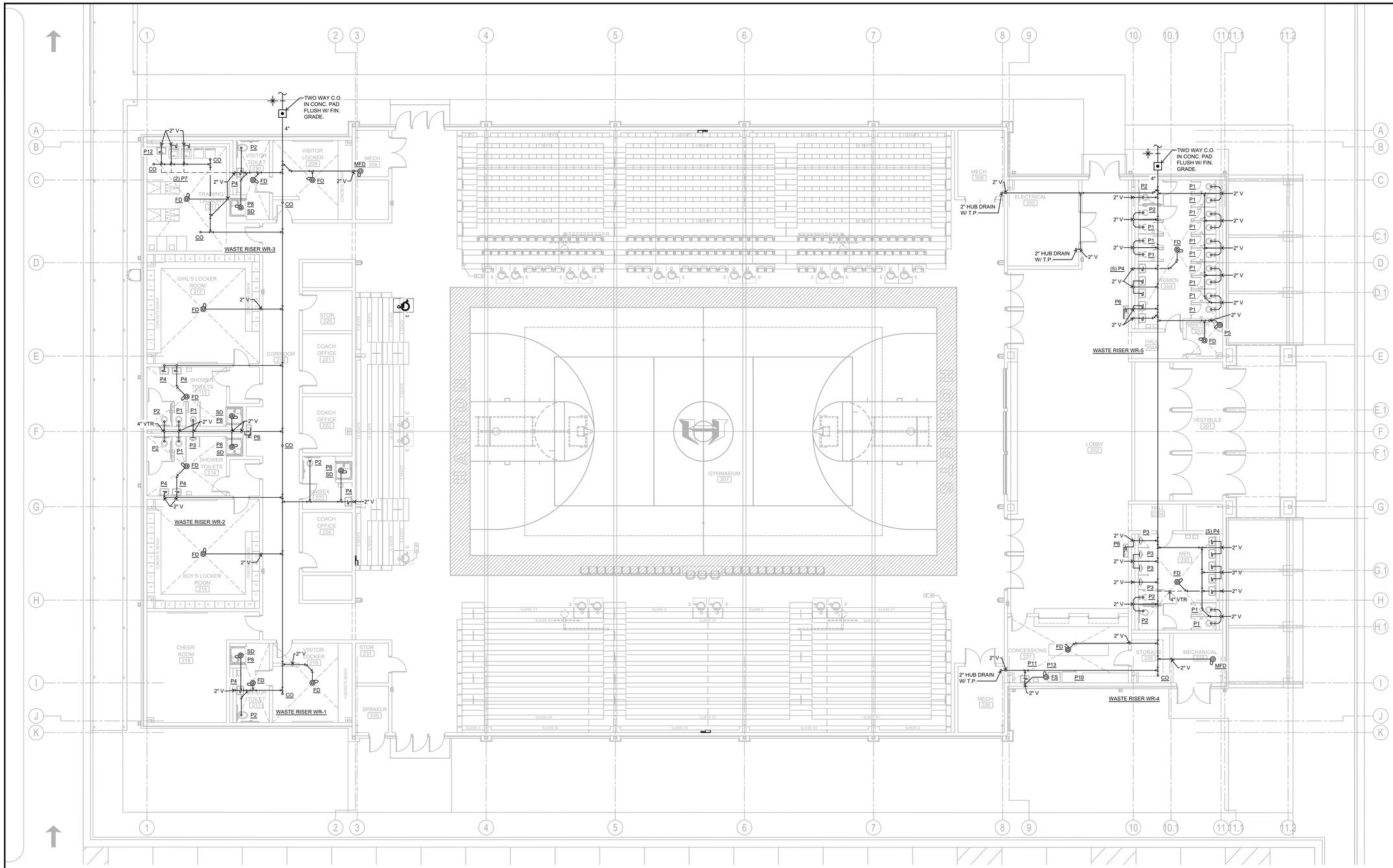

SHOWING WASTE PIPING

PLBG. FLOOR PLAN - GYMNASIUM

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

0' 2' 4' 8' 16' 32'

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

No. 23369 PROFESSIONAL ENGINEER 03.06.24

SHEET TITLE :	PLBG. FLOOR PLAN - GYMNASIUM - SHOWING WASTE PIPING
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : P2.1

ZEA
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MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

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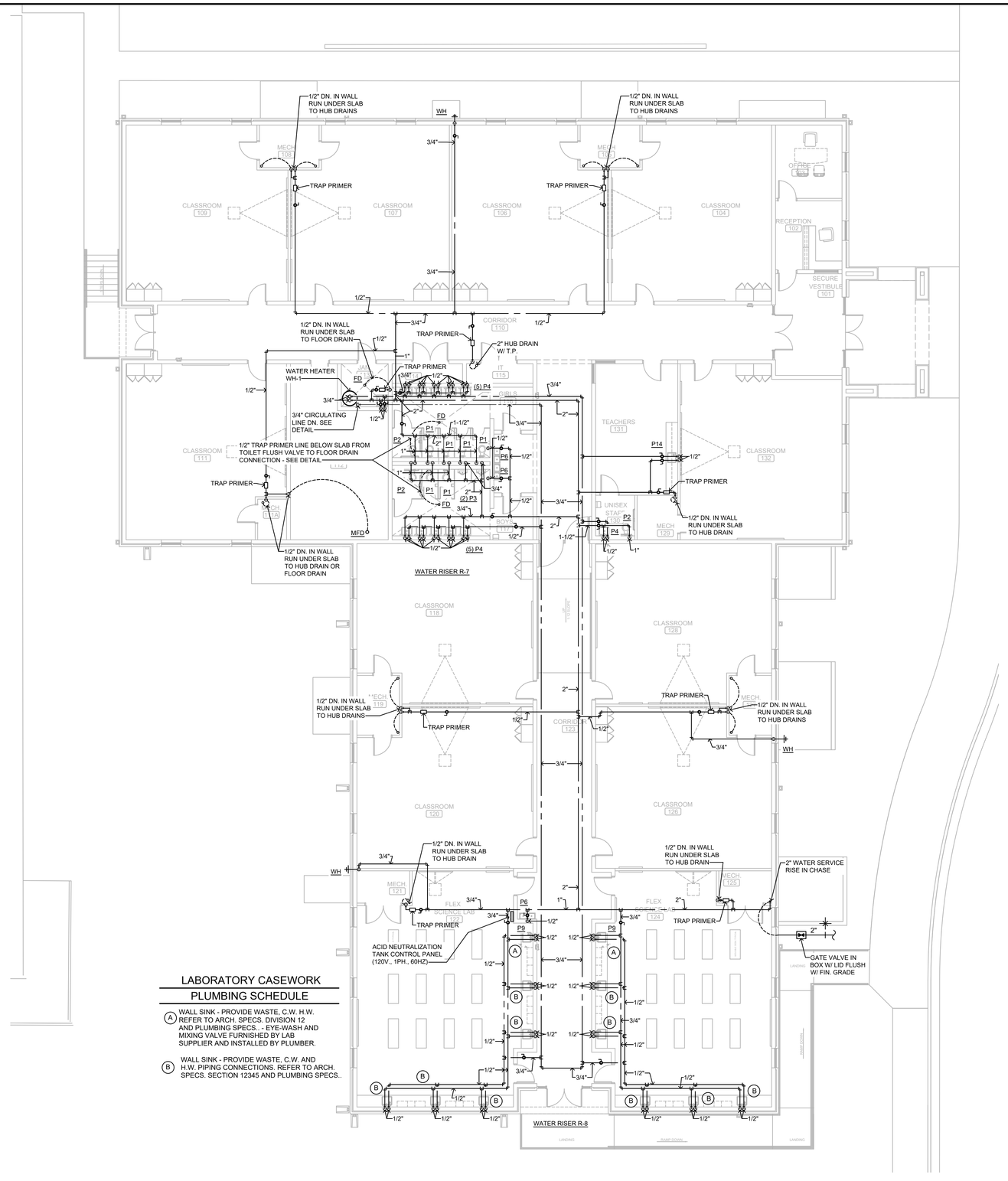

LABORATORY CASEWORK PLUMBING SCHEDULE

(A) WALL SINK - PROVIDE WASTE, C.W. H.W. REFER TO ARCH. SPECS. DIVISION 12 AND PLUMBING SPECS. - EYE-WASH AND MIXING VALVE FURNISHED BY LAB SUPPLIER AND INSTALLED BY PLUMBER.

(B) WALL SINK - PROVIDE WASTE, C.W. AND H.W. PIPING CONNECTIONS. REFER TO ARCH. SPECS. SECTION 12345 AND PLUMBING SPECS..

N W E S

SHOWING WATER PIPING

PLBG. FLOOR PLAN - CLASSROOM BLDG.

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

0' 2' 4' 8' 16' 32'

ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

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ADDITIONS
TO
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FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
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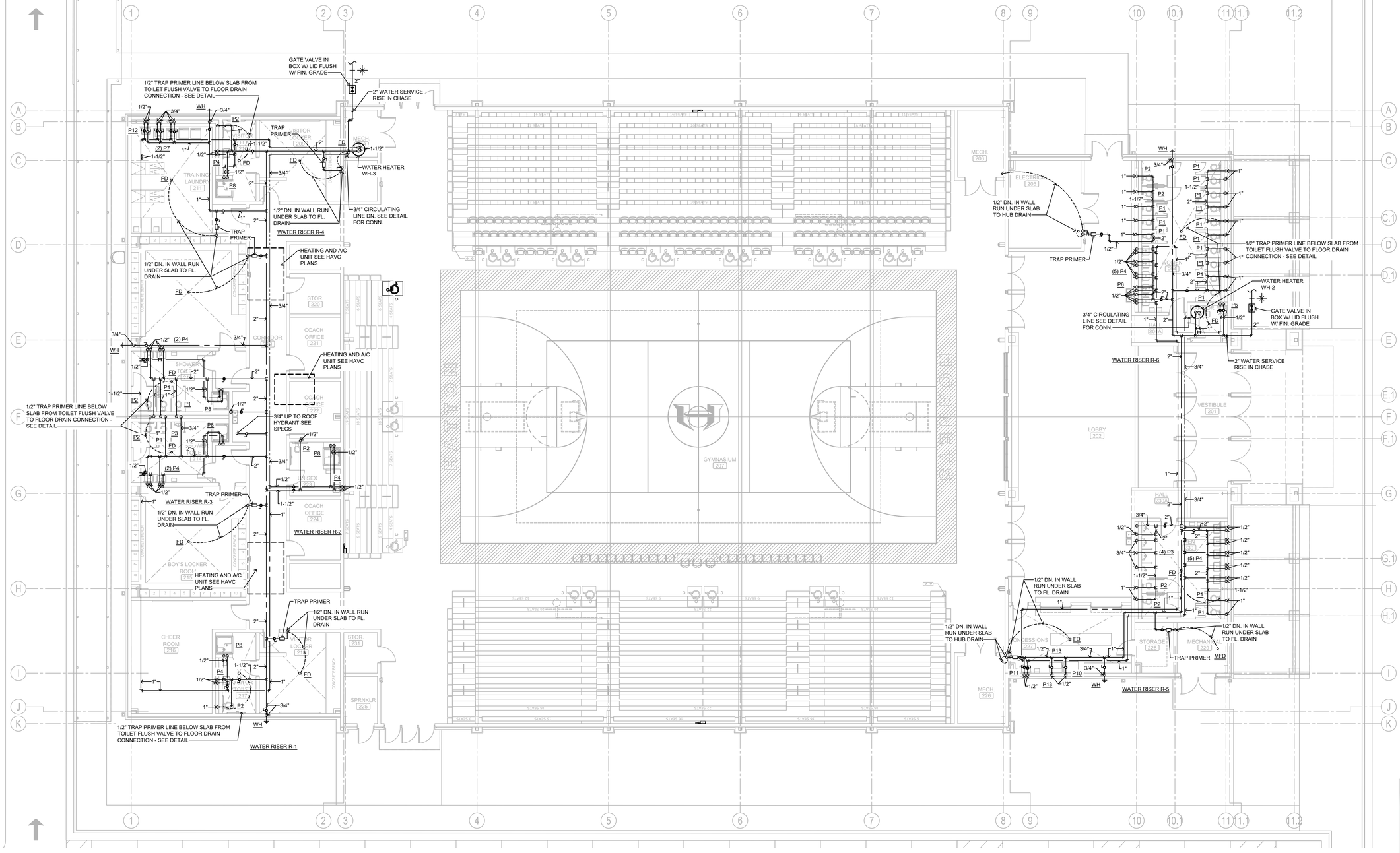
STATE OF ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 23369 03.06.24 J. R. EIRING

SHEET TITLE :	PLBG. FLOOR PLAN - CLRM. BLDG. - SHOWING WATER PIPING
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : P3.0



SHOWING WATER PIPING

PLBG. FLOOR PLAN - GYMNASIUM

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

0' 2' 4' 8' 16' 32'

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION MOULTON, ALABAMA

McKEE and ASSOCIATES ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA BOARD OF LICENSURE No. 23369 PROFESSIONAL ENGINEER 03.06.24 T. ZGOUVAS EIRING

SHEET TITLE :	PLBG. FLOOR PLAN - GYMNASIUM - SHOWING WATER PIPING
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

SHEET NO. : P3.1

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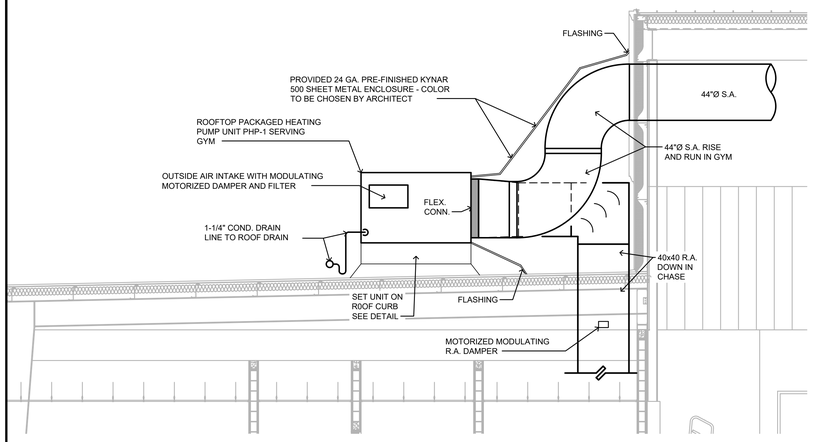
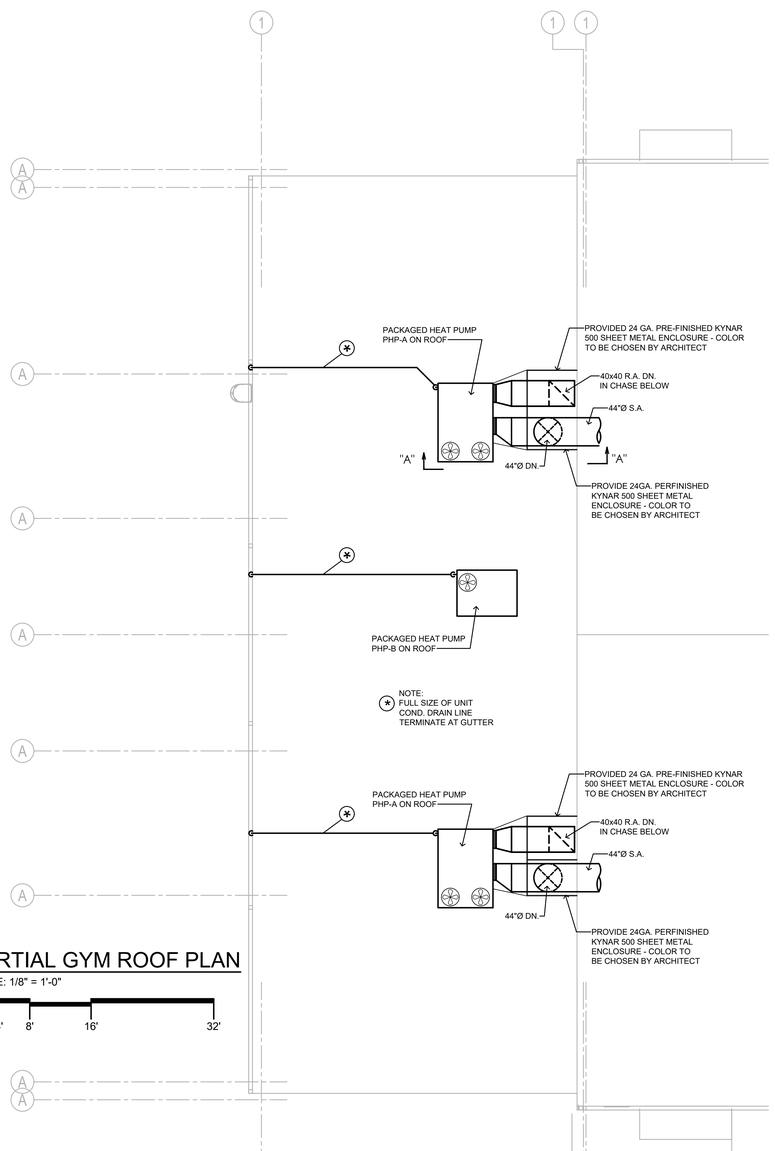


SECTION "A"

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

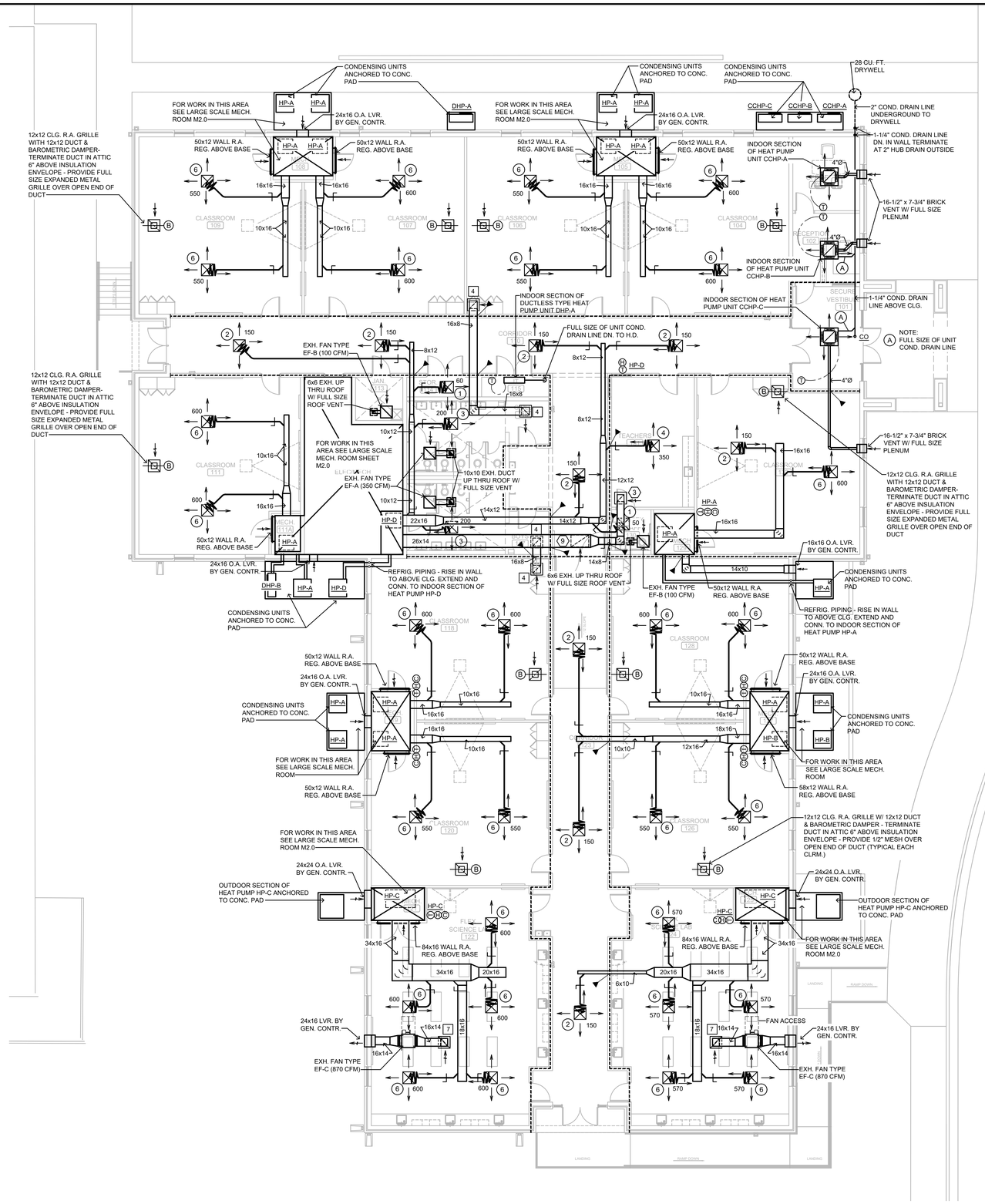
0' 1' 2' 4' 8' 16'



PARTIAL GYM ROOF PLAN

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

0' 2' 4' 8' 16' 32'



HVAC FLOOR PLAN - CLASSROOM BLDG.

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

0' 2' 4' 8' 16' 32'

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
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STATE OF ALABAMA LICENSED No. 23369 PROFESSIONAL ENGINEER 03.06.24 JAMES R. EIRING

SHEET TITLE :	HVAC FLOOR PLAN - CLRM. BLDG.
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

SHEET NO. : M1.0

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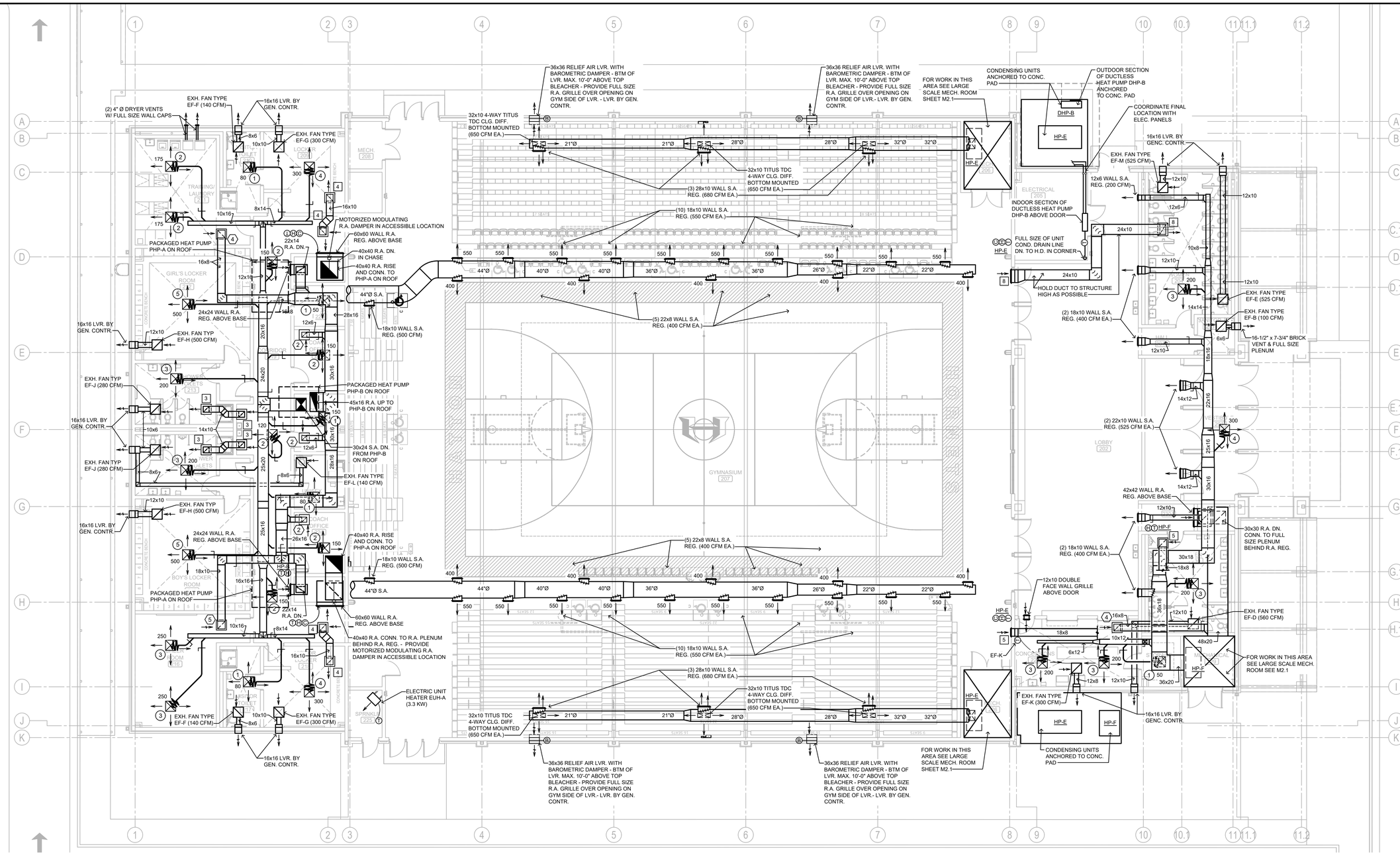

HVAC FLOOR PLAN - GYM

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

0' 2' 4' 8' 16' 32'

LEGEND

BAROMETRIC DAMPER	CEILING DIFFUSER DESIGNATOR	DUCT W/ RECTANGULAR SIZE	
MANUAL VOLUME DAMPER (MVD)	RETURN AIR GRILLE/REGISTER	RECTANGULAR SUPPLY DUCT TURNING UP	
MOTORIZED DAMPER (MD)	EXHAUST AIR GRILLE/REGISTER	RECTANGULAR SUPPLY AIR DUCT TURNING DOWN	
SMOKE DETECTOR	AD — AUXILIARY DRAIN	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP	
DENOTES LOCATION OF VERTICAL ACTION FIRE DAMPER	THERMOSTAT	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN	
DENOTES LOCATION OF HORIZONTAL ACTION FIRE DAMPER	REMOTE TEMPERATURE SENSOR	RECTANGULAR SUPPLY AIR DUCT FLOOR OR ROOF PENETRATION	
DENOTES LOCATION OF FIRE RATED CEILING DIFFUSER	HUMIDISTAT	RECTANGULAR RETURN OR EXHAUST AIR DUCT FLOOR OR ROOF PENETRATION	
CEILING DIFFUSER	CO2 SENSOR		
RETURN AIR GRILLE/REGISTER EXHAUST AIR GRILLE/REGISTER	A.F.F. ABOVE FINISH FLOOR C.D. CEILING DIFFUSER C.E.R. CEILING EXHAUST REGISTER CLG. CEILING OR COOLING CONN. CONNECT OR CONNECTION F.D. FIRE DAMPER G.C. GENERAL CONTRACTOR O.A. OUTSIDE AIR R.A. RETURN AIR S.A. SUPPLY AIR		

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
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STATE OF ALABAMA REGISTERED No. 23369 PROFESSIONAL ENGINEER 03.06.24 J. R. EIRING

SHEET TITLE :	HVAC FLOOR PLAN - GYM
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

ZEA
ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

SHEET NO. : M1.1

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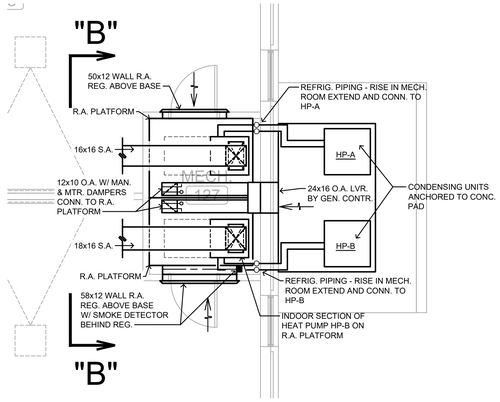
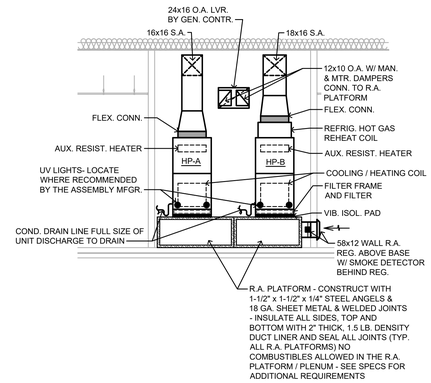


LARGE SCALE MECH. ROOM 127

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

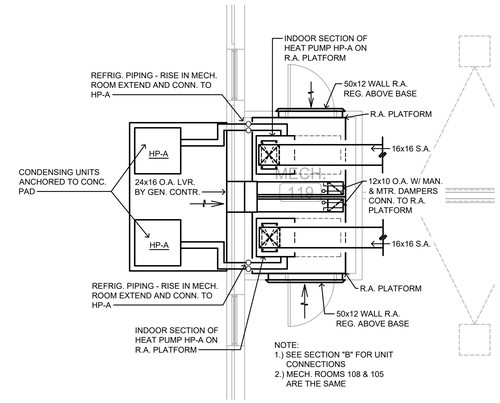
0' 1' 2' 4' 8' 16'



SECTION "B"

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

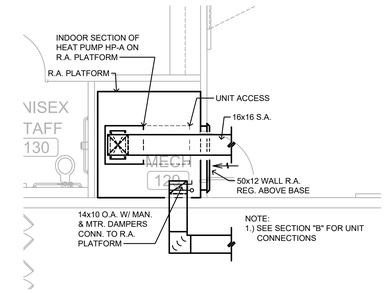
0' 1' 2' 4' 8' 16'



LARGE SCALE MECH. ROOM 119

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

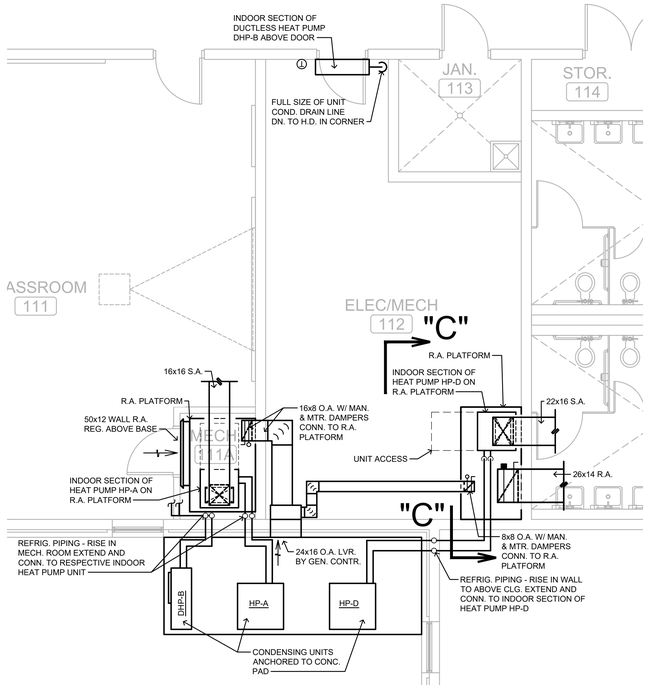
0' 1' 2' 4' 8' 16'



LARGE SCALE MECH. ROOM 129

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

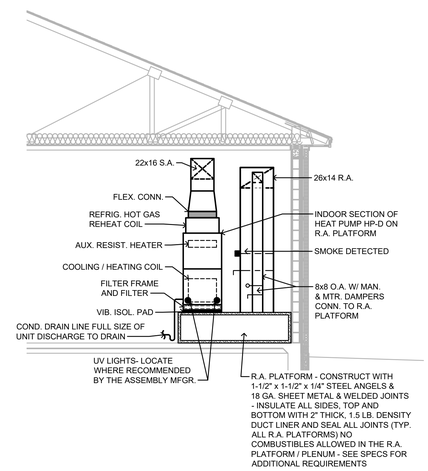
0' 1' 2' 4' 8' 16'



LARGE SCALE MECH. ROOM 111A / 112

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

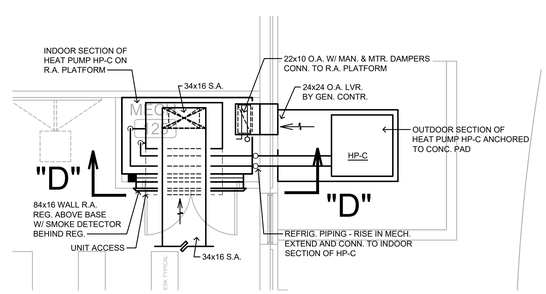
0' 1' 2' 4' 8' 16'



SECTION "C"

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

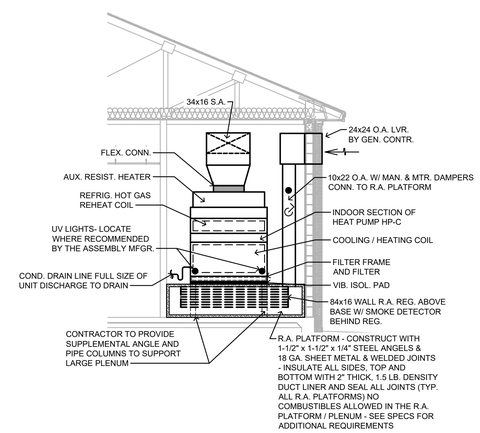
0' 1' 2' 4' 8' 16'



LARGE SCALE MECH. ROOM 125

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

0' 1' 2' 4' 8' 16'



SECTION "D"

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

0' 1' 2' 4' 8' 16'

ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE :	LARGE SCALE MECH. ROOMS & SECTIONS
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

SHEET NO. : M2.0

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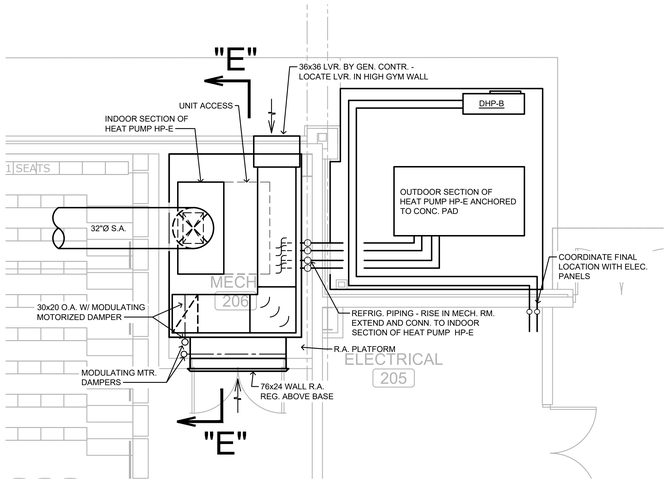
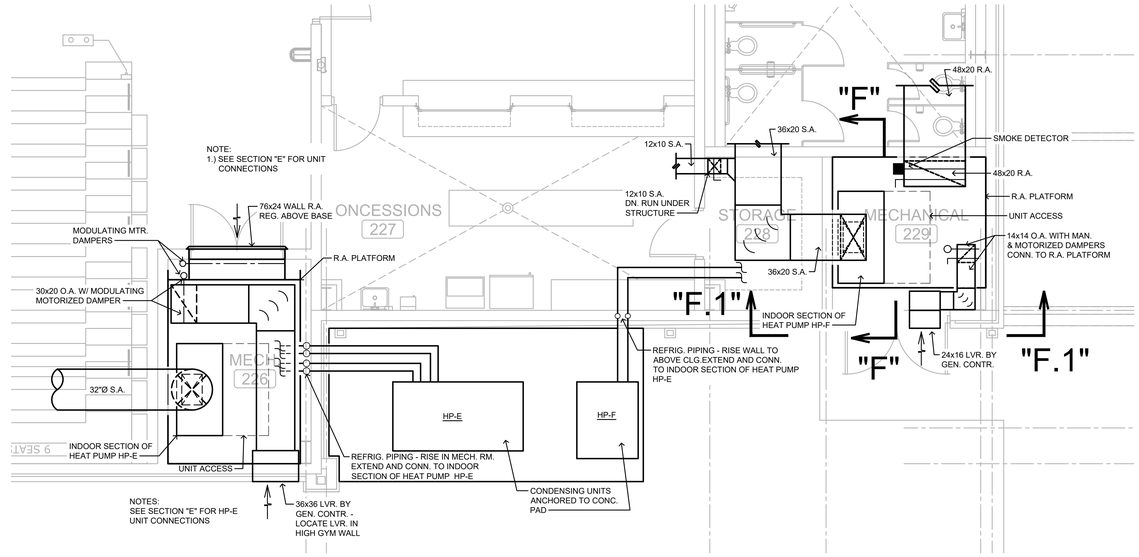


LARGE SCALE MECH. ROOM 206

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

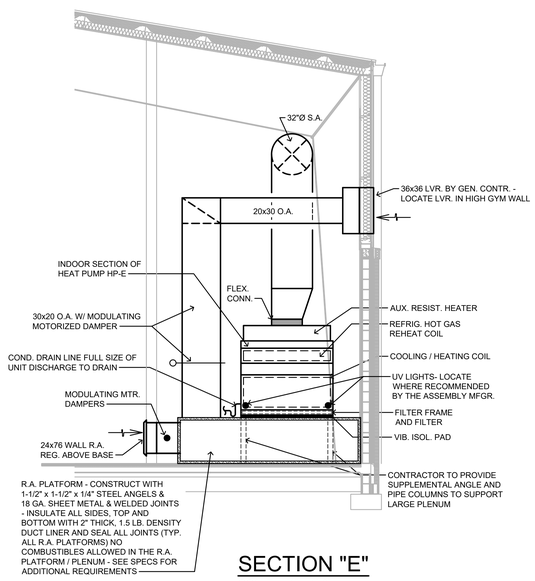
0' 1' 2' 4' 8' 16'



LARGE SCALE MECH. ROOMS 226/229

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

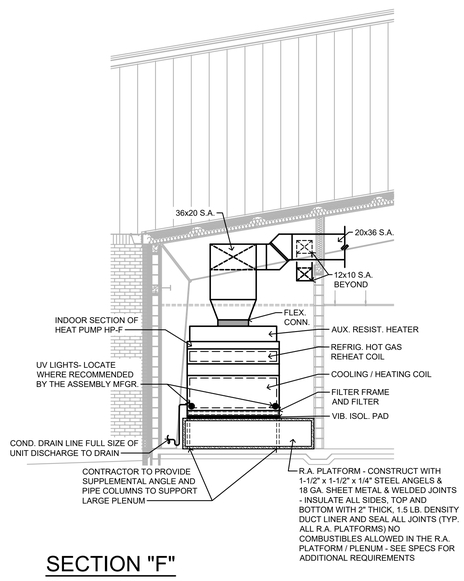
0' 1' 2' 4' 8' 16'



SECTION "E"

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

0' 1' 2' 4' 8' 16'



SECTION "F"

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

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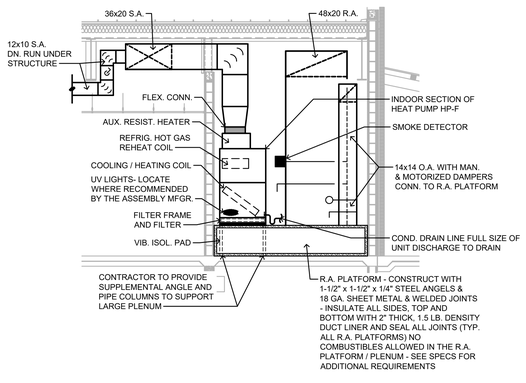

SECTION "F.1"

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

0' 1' 2' 4' 8' 16'

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334.263.4406
ZEA PROJECT NUMBER 23-353

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ADDITIONS TO HATTON SCHOOL

FOR THE

LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

LICENSED PROFESSIONAL ENGINEER No. 23369 03.06.24 J. R. EIRING

SHEET TITLE :	LARGE SCALE MECH. ROOMS & SECTIONS
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : M2.1

PACKAGED ROOFTOP OR PAD MOUNTED HEAT PUMP UNITS SCHEDULE

UNIT TYPE	MINIMUM TOTAL AIR CFM	OUTSIDE AIR CFM			APPROX. EXT. STATIC PRESS.- INCHES OF WATER COL.	FAN MOTOR				MINIMUM COOLING CAPACITY AT AHRI CONDITIONS - TOTAL BTU/HR	MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 22°F AMBIENT & 70°F INDOOR TEMP. - BTU/HR	COMPRESSOR MOTOR				OUTDOOR UNIT FAN(S)				AUXILIARY RESISTANCE HEATER					APPROX. MCA	APPROX. MOCP	MINIMUM COP AT AHRI CONDITIONS	MIN. EFFICIENCY AT AHRI CONDITIONS
		MINIMUM SETPOINT	MAXIMUM SETPOINT	MAXIMUM SETPOINT (ECONOMIZER)		APPROX. H.P.	VOLTS	PHASE	HZ.			APPROX. F.L.A.	VOLTS	PH.	HZ.	APPROX. F.L.A.	VOLTS	PH.	HZ.	K.W.	CONTROL STEPS	VOLTS	PH.	HZ.				
PHP-A	8000	1600	4900	8000	1.37	7.5	208	3	60	240,000	140,000	80.0	208	3	60	6.0	208	1	60	54.0	TWO	208	3	60	257.0	300.0	3.2	9.5 EER
PHP-B	4000	500	500	4000	1.12	3.0	208	3	60	120,000	80,000	36.0	208	3	60	5.0	208	1	60	30.0	TWO	208	3	60	130.0	150.0	3.3	11.0 EER

NOTES:

1. ALL INDOOR UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (FAN AND HEATER).
2. 208 VOLT, 3 PHASE POWER IS BEING PROVIDED BY ELECTRICAL TO THE HEAT PUMP UNIT. UNIT MANUFACTURER SHALL PROVIDE FACTORY INSTALLED RELAYS, TRANSFORMERS, ETC., AS REQUIRED TO OPERATE EQUIPMENT AT POWER REQUIREMENTS SPECIFIED ABOVE.
3. EER RATINGS BASED ON AHRI 340/360
4. COP RATING BASED ON AHRI 340/360
5. EACH UNIT SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
6. ALL UNITS SHALL HAVE MINIMUM OF TWO COMPRESSORS WITH 2-STAGES OF COOLING AS REQUIRED BY ASHRAE 90.1.
7. ALL UNITS SHALL BE PROVIDED WITH TWO SPEED CONTROL OF THE SUPPLY FAN SUCH THAT THE FAN AIRFLOW WILL VARY AS A FUNCTION OF LOAD AS REQUIRED BY ASHRAE 90.1.

SPLIT SYSTEM HEAT PUMP UNITS SCHEDULE

UNIT TYPE	MINIMUM TOTAL AIR CFM	OUTSIDE AIR CFM			APPROX. EXT. STATIC PRESS.- INCHES OF WATER COL.	FAN MOTOR				MINIMUM COOLING CAPACITY AT A.H.R.I. CONDITIONS - TOTAL BTU/HR	MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 22°F AMBIENT & 70°F INDOOR TEMP. - BTU/HR	COMPRESSOR MOTOR				OUTDOOR UNIT FAN(S)				AUXILIARY RESISTANCE HEATER					MINIMUM HSPF/COP AT A.H.R.I. CONDITIONS	MIN. EFFICIENCY AT A.H.R.I. CONDITIONS
		MINIMUM CO2 SETPOINT	MAXIMUM CO2 SETPOINT	MAXIMUM SETPOINT (ECONOMIZER)		APPROX. H.P.	VOLTS	PHASE	HZ.			APPROX. F.L.A.	VOLTS	PH.	HZ.	APPROX. F.L.A.	VOLTS	PH.	HZ.	K.W.	CONTROL STEPS	VOLTS	PH.	HZ.		
HP-A	1200	100	375	N/A	0.50	1/2	208	3	60	36,000	24,000	11.0	208	3	60	1.5	208	1	60	10.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-B	1400	115	370	N/A	0.62	1/2	208	3	60	42,000	28,000	15.0	208	3	60	2.1	208	1	60	10.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-C	3000	870	N/A	N/A	0.50	2.0	208	3	60	90,000	58,000	30.0	208	3	60	3.2	208	1	60	25.0	TWO	208	3	60	3.3 COP	11.0 EER
HP-D	1600	200	N/A	N/A	0.90	3/4	208	3	60	48,000	32,000	15.0	208	3	60	2.1	208	1	60	12.0	TWO	208	3	60	8.2 HSPF	14.0 SEER
HP-E	4000	215	1200	N/A	1.01	3.0	208	3	60	120,000	79,000	35.0	208	3	60	6.0	208	1	60	30.0	TWO	208	3	60	3.3 COP	11.0 EER
HP-F	4000	760	N/A	N/A	1.17	3.0	208	3	60	120,000	79,000	35.0	208	3	60	6.0	208	1	60	30.0	TWO	208	3	60	3.3 COP	11.0 EER

NOTES:

1. ALL INDOOR UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (FAN AND HEATER).
2. 208 VOLT, 3 PHASE POWER IS BEING PROVIDED BY ELECTRICAL TO THE INDOOR HEAT PUMP UNIT SECTIONS. UNIT MANUFACTURER SHALL PROVIDE FACTORY INSTALLED RELAYS, TRANSFORMERS, ETC., AS REQUIRED TO OPERATE EQUIPMENT AT POWER REQUIREMENTS SPECIFIED ABOVE.
3. SEER RATINGS BASED ON AHRI 210/240
4. EER RATINGS BASED ON AHRI 340/360
5. HSPF RATING BASED ON AHRI 210/240
6. COP RATING BASED ON AHRI 340/360 AT 47°F DB/43°F WB
7. EACH UNIT WITH SCHEDULED COOLING CAPACITY GREATER THAN 40.0 MBH SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS
8. ALL UNITS WITH SCHEDULED COOLING CAPACITY GREATER THAN 60 MBH SHALL HAVE MINIMUM OF TWO COMPRESSORS OR 2-STAGES OF COOLING AS REQUIRED BY ASHRAE 90.1.
9. ALL UNITS WITH SCHEDULED COOLING CAPACITIES GREATER THAN 60 MBH SHALL BE PROVIDED WITH TWO SPEED CONTROL OF THE SUPPLY FAN SUCH THAT THE FAN AIRFLOW WILL VARY AS A FUNCTION OF LOAD AS REQUIRED BY ASHRAE 90.1 - 2013.

FANS SCHEDULE

FAN TYPE	FAN CFM	DESCRIPTION	MINIMUM FAN SIZE INCHES	APPROX. FAN WALL/ ROOF OPENING -INCHES	MAXIMUM FAN SPEED RPM	APPROX. EXT. STATIC PRESS. IN. WTR. COL.	FAN MOTOR				CONTROL INTERLOCK	REMARKS
							MIN. H.P./ WATTS	POWER				
								VOLTS	PH.	HERTZ		
EF-A	350	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.30	245W	120	1	60	LIGHTING CIRCUIT	
EF-B	100	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	8.0	N/A	1050	0.30	80W	120	1	60	LIGHTING CIRCUIT	
EF-C	870	IN-LINE, DIRECT DRIVE, CENTRIFUGAL, ECM	18.0	N/A	935	0.33	.50 HP	208	3	60	WALL SWITCH	
EF-D	560	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.40	390W	120	1	60	LIGHTING CIRCUIT	
EF-E	525	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.38	390W	120	1	60	LIGHTING CIRCUIT	
EF-F	140	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	8.0	N/A	1050	0.30	80W	120	1	60	LIGHTING CIRCUIT	
EF-G	300	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.30	245W	120	1	60	LIGHTING CIRCUIT	
EF-H	500	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.30	270W	120	1	60	LIGHTING CIRCUIT	
EF-J	280	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.30	270W	120	1	60	LIGHTING CIRCUIT	
EF-K	300	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.30	245W	120	1	60	LIGHTING CIRCUIT	
EF-L	140	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	8.0	N/A	1050	0.38	80W	120	1	60	LIGHTING CIRCUIT	
EF-M	525	CEILING, MTD., CENTRIFUGAL, DIRECT DRIVEN, ECM	10.0	N/A	1050	0.30	270W	120	1	60	LIGHTING CIRCUIT	

WALL MOUNTED DUCTLESS HEAT PUMP UNIT SCHEDULE

UNIT TYPE	DHP-A	DHP-B
MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	9,000	18,000
MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 47°F AMBIENT - BTU/HR	9,600	19,000
INDOOR FAN CFM AT HIGH SPEED (WET COIL)	325	380
INDOOR UNIT MCA - POWER	1.5 A - 208 V., 1 PH., 60 HZ.	1.5 A - 208 V., 1 PH., 60 HZ.
OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER	10.0 A - 208 V., 1 PH., 60 HZ.	11.0 A - 208 V., 1 PH., 60 HZ.
OUTDOOR UNIT MOP (COMPRESSOR AND COND. FAN) - POWER	15.0 A - 208 V., 1 PH., 60 HZ.	28.0 A - 208 V., 1 PH., 60 HZ.
MINIMUM HSPF AT AHRI 210/240 CONDS.	13.5	10.2
MINIMUM S.E.E.R. AT AHRI 210/240 CONDS	27.5	18.5
BASIS OF DESIGN	MITSUBISHI MSZ / MUZ	MITSUBISHI PKA / PUZ

CEILING CASSETTE TYPE HEAT PUMP UNIT SCHEDULE

UNIT TYPE	CCHP-A	CCHP-B	CCHP-C
MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	12,000	12,000	18,000
MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 47°F AMBIENT - BTU/HR	14,000	14,000	19,000
INDOOR FAN CFM AT HIGH SPEED (WET COIL)	490	490	560
OUTSIDE AIR CFM	20	35	25
INDOOR UNIT MCA - POWER	1.5 A - 208 V., 1 PH., 60 HZ.	1.5 A - 208 V., 1 PH., 60 HZ.	1.5 A - 208 V., 1 PH., 60 HZ.
OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER	11.0 A - 208 V., 1 PH., 60 HZ.	11.0 A - 208 V., 1 PH., 60 HZ.	11.0 A - 208 V., 1 PH., 60 HZ.
OUTDOOR UNIT MOCP	28.0 A - 208 V., 1PH., 60HZ.	28.0 A - 208 V., 1PH., 60HZ.	28.0 A - 208 V., 1 PH., 60 HZ.
MINIMUM HSPF AT AHRI 210/240 CONDS.	12.8	12.8	11.0
MINIMUM S.E.E.R. AT AHRI 210/240 CONDS	27.0	27.0	24.6

CEILING DIFFUSER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE INCHES	FACE SIZE INCHES	BRANCH DUCT SIZE	MAXIMUM NC VALUE	BASIS OF DESIGN
1	10 - 95	6" ROUND	24x24	6"Ø	20	TITUS TMS
2	100 - 180	8" ROUND	24x24	8"Ø	20	TITUS TMS
3	185 - 270	10" ROUND	24x24	10"Ø	20	TITUS TMS
4	275 - 400	12" ROUND	24x24	12"Ø	20	TITUS TMS
5	405 - 530	14" ROUND	24x24	14"Ø	20	TITUS TMS
6	535 - 625	15" ROUND	24x24	15"Ø	20	TITUS TMS

NOTES

1.) RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS
2.) CONTRACTOR SHALL INSULATE THE EXTERIOR (BACK SIDE OF DIFFUSER PANEL) WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

EXHAUST/RETURN AIR REGISTER SCHEDULE

SYMBOL		CFM RANGE	SIZE - IN. x IN.	DESCRIPTION	MAXIMUM NC RATING	BRANCH DUCT SIZE
EXH.	R.A.					
1	1	0 - 140	9x9	CEILING EXH. OR RETURN REG.	20	9x6
2	2	141 - 240	12x12	CEILING EXH. OR RETURN REG.	20	12x7
3	3	241 - 340	14x14	CEILING EXH. OR RETURN REG.	20	14x7
4	4	341 - 460	16x16	CEILING EXH. OR RETURN REG.	20	16x9
5	5	461 - 600	18x18	CEILING EXH. OR RETURN REG.	20	18x10
6	6	601 - 760	20x20	CEILING EXH. OR RETURN REG.	20	20x12
7	7	761 - 940	24x24	CEILING EXH. OR RETURN REG.	20	24x12
8	8	941 - 1200	30x24	CEILING EXH. OR RETURN REG.	20	24x14
9	9	1201 - 1400	36x24	CEILING EXH. OR RETURN REG.	20	28x14

NOTES

1.) RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS.
2.) 8 8 & 9 9 SHALL BE IN INTEGRAL 48x24 METAL CEILING PANEL AS SPECIFIED. ALL OTHERS SHALL BE IN INTEGRAL 24x24 METAL CEILING PANEL AS SPECIFIED.
3.) CONTRACTOR SHALL INSULATE THE BACK SIDE OF CEILING MOUNTED EXHAUST & RETURN AIR GRILLES/REGISTERS WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

ZEA
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MONTGOMERY, AL. 36104
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ZEA PROJECT NUMBER 23-353

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ADDITIONS
TO
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MOULTON, ALABAMA

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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA LICENSED No. 23369 PROFESSIONAL ENGINEER 03.06.24 J. R. EIRING

SHEET TITLE : HVAC SCHEDULES

MCKEE JOB # : 23.229

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE: 03.06.2024

REVISED DATE:

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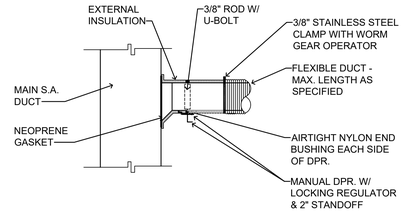
SHEET NO. : M3.0

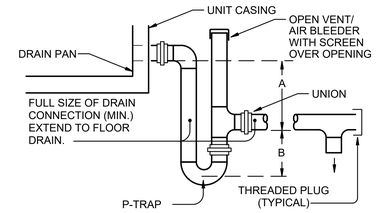
ELECTRIC UNIT HEATER SCHEDULE (EUH)

HEATER TYPE	DESCRIPTION	AIR QUANTITY-CFM	MINIMUM CAPACITY-KW	FAN HP	FAN MAX. RPM	POWER			NUMBER OF CONTROL STEPS
						VOLTS	PHASE	HERTZ	
EUH-A	WALL MTD., HORIZ. DISCHARGE, PROP	400	3.3	1/125	1550	208	3	60	ONE



ROUND BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE
RECTANGULAR RUNOUTS SAME EXCEPT WITH RECTANGULAR DUCT



UNIT TYPE	A	B
DRAW-THRU	2" PLUS "X"	"X" PLUS 1"
BLOW-THRU	1" MINIMUM	2X PLUS 1"

WHERE "X" = UNIT STATIC PRESSURE

TYPICAL AIR HANDLING UNIT CONDENSATE DRAIN DETAIL

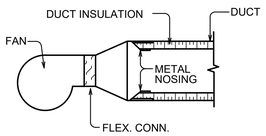
NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL PROVIDE DRAIN ARRANGEMENT AS REQUIRED BY THE UNIT MANUFACTURER. IN ABSENCE OF THOSE REQUIREMENTS, CONTRACTOR SHALL PROVIDE DRAIN AS DETAILED ABOVE

2. CONTRACTOR SHALL RAISE THE RESPECTIVE UNIT AS REQUIRED TO ALLOW FOR INSTALLATION OF THE DRAIN AS DETAILED ABOVE

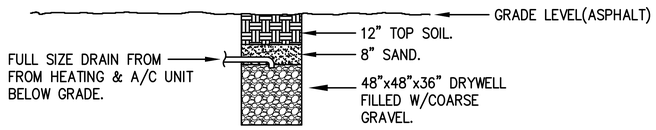
3. PROVIDE AN ELECTRIC SWITCH IN THE AUXILIARY CONDENSATE DRAIN LINE ON THE UNIT, THAT CONFORMS TO UL 508, TO SHUT DOWN THE UNIT AND ALARM TO THE BUILDING ENERGY MANAGEMENT SYSTEM (BAS) OPERATOR CONSOLE (IF APPLICABLE) SHOULD THE LINE BECOME OBSTRUCTED



TYPICAL DUCT LINER INTERRUPTION DETAIL

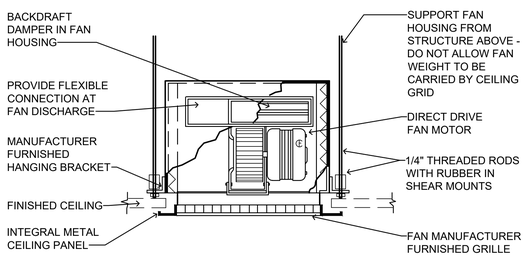
NOT TO SCALE

NOTE !! THIS DETAIL APPLIES TO FIRE DAMPER INSTALLATION, WHERE DUCTS CONNECT TO FAN SECTION, ANYWHERE BARE DUCT LINER PROTRUDES INTO THE AIRSTREAM, ANY POINT WHERE LINED DUCT IS PRECEDED BY UNLINED DUCT, BARE DUCT INSULATION EDGES THAT ARE EXPOSED IN THE RETURN AIR PLENUM, ETC. - SEE SPECS FOR ADDITIONAL REQUIREMENTS



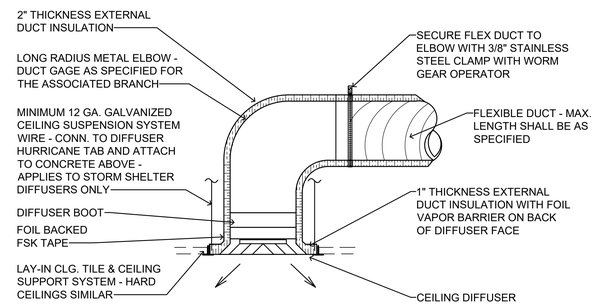
DRYWELL DETAIL

NO SCALE



CEILING MOUNTED EXHAUST FAN CONN. DETAIL

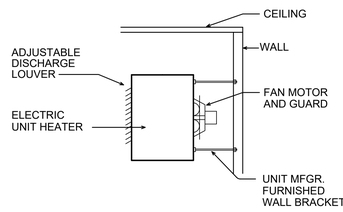
NO SCALE



DIFFUSER BOOT/PLENUM CONNECTION DETAIL

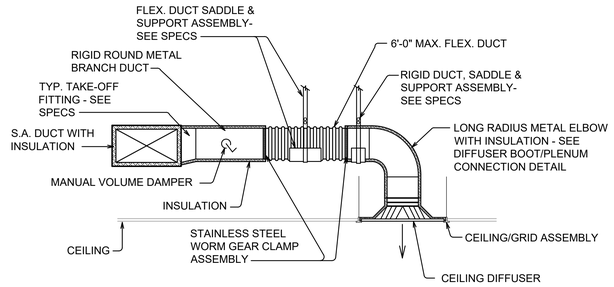
NOT TO SCALE

1. DIFFUSERS PANELS SHALL BE INSULATED PRIOR TO INSTALLING INTO THE CEILING GRID
2. DO NOT COVER STAINLESS STEEL BAND AND WORM GEAR OPERATOR UNTIL ENGINEER HAS INSPECTED THE INSTALLATION.



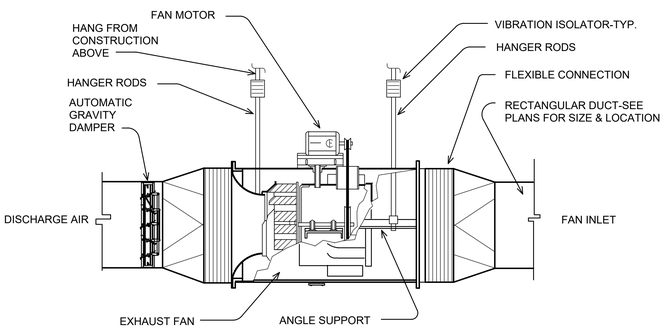
WALL MOUNTED ELECTRIC UNIT HEATER DETAIL

NOT TO SCALE



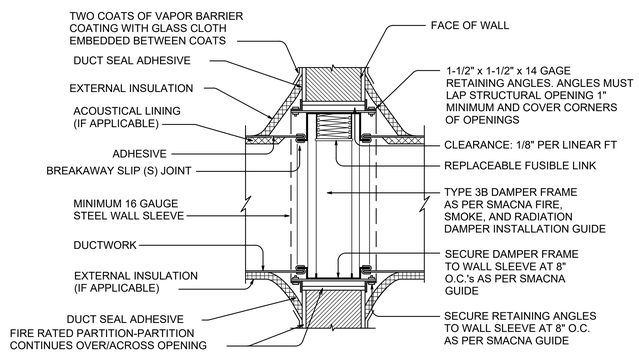
TYPICAL DIFFUSER RUN-OUT CONN.

NOT TO SCALE



CABINET TYPE IN-LINE CENTRIFUGAL EXHAUST FAN DETAIL

NOT TO SCALE



WALL MOUNTED FIRE DAMPER DETAIL

NOT TO SCALE

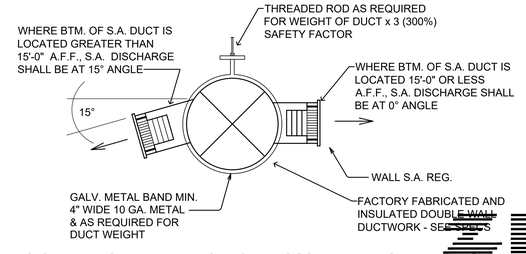
NOTES:

1.) PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FIRE RATED WALLS, CEILINGS, FLOORS AND ANY TYPE OF RATED ASSEMBLY - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATINGS.
2.) VERTICAL ACTION INSTALLATION SHOWN. HORIZONTAL ACTION DAMPER INSTALLATION SIMILAR
3.) PROVIDE ACCESS PANEL/DOOR IN DUCT AND INACCESSIBLE (HARD) CEILINGS FOR EACH FIRE DAMPER
4.) DO NOT EXTERNALLY INSULATE THE FIRE DAMPER ANGLES UNTIL THE ENGINEER HAS INSPECTED THE FIRE DAMPER INSTALLATION

SYMBOLS

DENOTES VERTICAL ACTION FIRE DAMPER

DENOTES HORIZONTAL ACTION FIRE DAMPER



TYP. EXPOSED ROUND DUCT / REGISTER MOUNTING DETAIL

NOT TO SCALE

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334.263.4406
ZEA PROJECT NUMBER 23-353

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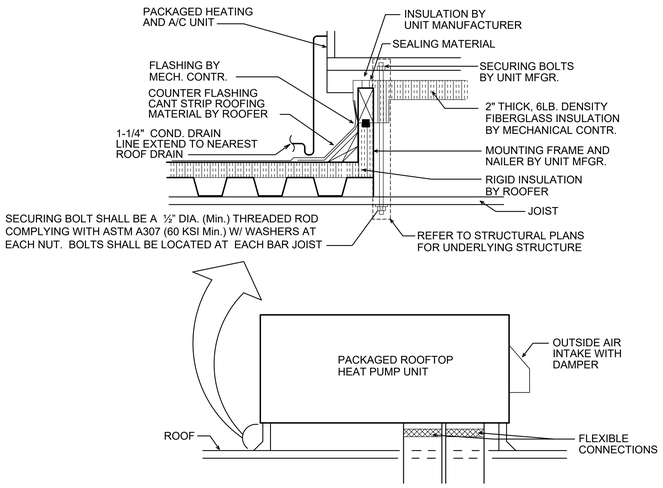
REVISED DATE:	

SHEET NO. : M3.1



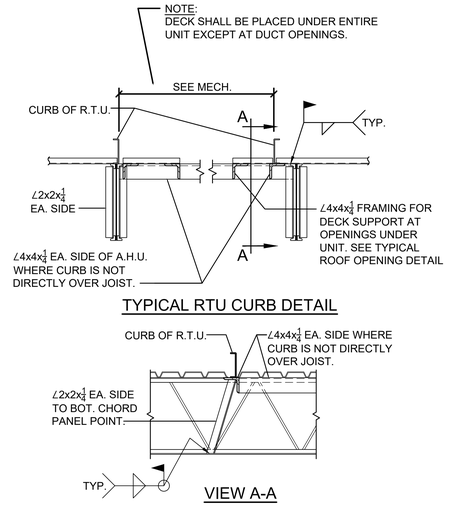
PACKAGED ROOFTOP HEAT PUMP UNIT CONNECTION DETAIL

NOT TO SCALE

NOTES:

1.) HORIZONTAL DISCHARGE UNITS SIMILAR

2.) SEE PLANS FOR SMOKE DETECTOR LOCATIONS

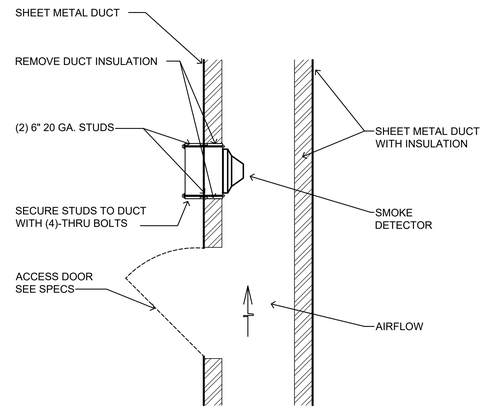


TYPICAL RTU CURB DETAIL

VIEW A-A

NOTE:

DETAIL ABOVE IS SHOWN TO INDICATE INTENT ON HOW THE ROOFTOP UNITS ARE TO BE ANCHORED - REQUIREMENTS ABOVE ARE BY THE GENERAL CONTRACTOR - REFER TO STRUCTURAL PLANS FOR SPECIFIC REQUIREMENTS



SMOKE DETECTOR MOUNTING DETAIL

NOT TO SCALE

HP-A OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
TYPICAL CLASSROOM	785	35	28	0.12	95	10	280	375	1				0	1200	0.3125
Total			28		95		280								

HP-B OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
TYPICAL CLASSROOM	785	35	25	0.12	95	10	250	345	1				0	1100	0.313636
CORRIDOR	300	0	0	0.06	18	0	0	22.5	0.8				0	300	0.075
Total			25		113		250								
							Cumulative CFM	367.5							

HP-C OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
FLEX SCIENCE LAB	870	25	22	0.18	157	10	220	377	1			1	870	2850	0.132281
CORRIDOR	500	0	0	0.06	30	0	0	30	1				0	300	0.1
Total			22		157		220								
							Cumulative CFM	407							

Max "Zp"	0.132281
"Ev"	1
"Vou" Total OSA EQ4-6	407
Total Building Occupancy	22
Zone Occupancy	22
"D" from EQ4-7	1
"Vot" Equation 4-8	407
TOTAL OSA	407

HP-D OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
TEACHERS 131	315	25	8	0.06	19	5	40	73.75	0.8				0	750	0.098333
CORRIDOR	1226	0	0	0.06	74	0	0	92.5	0.8				0	750	0.123333
TOILET 130										1	70		70	50	0
BOY / GIRLS										10	70		700	400	0
STORAGE 114	40	0	0	0.06	3	0	0	3.75	0.8				0	60	0.0625
JAN 113										1	70		70	0	0
Total			8		93		40								
							Cumulative CFM	170							

Max "Zp"	0.123333
"Ev"	1
"Vou" Total OSA EQ4-6	170
Total Building Occupancy	25
Zone Occupancy	8
"D" from EQ4-7	3.125
"Vot" Equation 4-8	170
TOTAL OSA	170

HP-F OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
LOBBY 202	1500	30	45	0.06	90	7.5	338	428	1					2850	0.150175
CONCESSIONS 2273	325	25	9	0.06	20	5	45	81.25	0.8					400	0.203125
STORAGE 228/231	120	0	0	0.12	15	0	0	18.75	0.8					100	0.1875
WOMENS 204										15	70		1050	200	0
MENS 230										8	70		560	200	0
VESTIBULE 201	285	5	2	0.18	52	5	10	77.5	0.8					300	0.258333
Total			56		90		393								
							Cumulative CFM	605.5							

Max "Zp"	0.258333
"Ev"	0.8
"Vou" Total OSA EQ4-6	605.5
Total Building Occupancy	56
Zone Occupancy	56
"D" from EQ4-7	1
"Vot" Equation 4-8	756.875
TOTAL OSA	756.875

PHP-B OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
TRAINING / LAUNDRY 211	285	25	8	0.06	18	5	40	72.5	0.8					400	0.18125
VISITORS LOCKER 209	260									0	70	0.5	130	250	0
VISTORS TOILET 210										2	70	0	140	300	0
LOCKERS RM 212	415											0.5	208	300	0
STORAGE 220	80			0.12	10			12.5	0.8					80	0.15625
CORRIDOR 219	815			0.06	49			61.25	0.8					600	0.102083
SHOWERS 213										4	70		280	200	0
SHOWERS 214										4	70		280	200	0
COACH OFFICE 221	120	5	1	0.18	22	5	5	33.75	0.8					200	0.16875
COACH OFFICE 222	120	5	1	0.18	22	5	5	33.75	0.8					200	0.16875
UNISEX 223										1	70		70	50	0
COACH OFFRICE 224	120	5	1	0.18	22	5	5	33.75	0.8					200	0.16875
CHEER ROOM 1216	400	25	10	0.18	72	5	50	152.5	0.8					600	0.254167
VISITORS LOCKERS 218	290											0.5	145	250	0
LOCKERS RM 215	415											0.5	208	300	0
Total			21		18		105								
							Cumulative CFM	400							

Max "Zp"	0.254167
"Ev"	0.8
"Vou" Total OSA EQ4-6	400
Total Building Occupancy	21
Zone Occupancy	21
"D" from EQ4-7	1
"Vot" Equation 4-8	500
TOTAL OSA	500

CASSETTE UNITS OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
OFFICE 103	145	5	350	0.06	9	5	1750	2198.75	0.8				0	150	14.65833
RECEPTION 102	130	30	4	0.06	8	5	20	35	0.8				0	150	0.233333
SECURE VESTIBULE 101	200	5	1	0.06	12	5	5	21.25	0.8				0	150	0.141667
Total			355		17		1775								

GYM OUTDOOR AIR AND EXHAUST CALCULATIONS

	Area	Peo/1000SF	# People	CFM/SF	Area CFM	CFM/Person	People CFM	Voz	Ez	# Fixtures	CFM/Fixt	CFM/SF	Min Exhaust	Supply Air	Zp EQ4-5
PHP-A, AND HP-E															
GYM PLAY AREA	5600	7	40	0.18	1008	20	800	1808	1					2850	0.634386
GYM SPECTATOR ARA	8800	150	1320	0.06	528	7.5	9900	10428	1					400	26.07
Total			1360		1008		10700								
							Cumulative CFM	12236							

ZEA
ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 23-353

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STATE OF ALABAMA LICENSED PROFESSIONAL ENGINEER No. 23369 03.06.24 J. R. EIRING

SHEET TITLE :	HVAC DETAILS & O.A. CALCULATIONS
MCKEE JOB # :	23.229
DRAWN BY :	C. WARD
CHECKED BY :	T. ZGOUVAS
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : M3.2

CEILING OUTLETS

- A (2) — RECESSED 2'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- A (2) — RECESSED 2'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- A (2) — RECESSED 1'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- A (2) — RECESSED 1'x4' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- A (2) — RECESSED 2'x2' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- A (2) — RECESSED 2'x2' LAY-IN FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- A (2) — SURFACE OR PENDANT MOUNTED LINEAR STRIP FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- A 2 — SURFACE OR PENDANT MOUNTED LINEAR STRIP FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- A (2) — RECESSED OR SURFACE MOUNTED DOWNLIGHT, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- A 2 — RECESSED OR SURFACE MOUNTED DOWNLIGHT, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- A (2) — RECESSED OR SURFACE MOUNTED ROUND FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- A 2 — RECESSED OR SURFACE MOUNTED ROUND FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL. 'EMERGENCY POWER'.
- CEILING MOUNTED SINGLE FACE EXIT SIGN, ARROWS AS SHOWN ON DRAWINGS.
- CEILING MOUNTED DOUBLE FACE EXIT SIGN, ARROWS AS SHOWN ON DRAWINGS.
- CEILING MOUNTED JUNCTION BOX.
- DUPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.
- G DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.
- V DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED. MOUNT IN 4"x4"x2" BOX. PROVIDE STEEL BARRIER BETWEEN CATV/RECEPTACLE AND CONNECTOR WITH BUSHING FOR CATV CABLE.
- DUPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED. UNLESS NOTED OTHERWISE UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- AD CEILING MOUNTED JUNCTION BOX FOR AUTOMATIC DOORS.
- JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
- JUNCTION BOX WITH FLEXIBLE CONNECTION TO FIXTURE.

WALL OUTLETS

- A (2) — WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- A 2 — WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- H — WALL MOUNTED SINGLE FACE EXIT SIGN, ARROWS AS SHOWN ON DRAWINGS.
- H (2) A — WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL.
- 2 H A — WALL MOUNTED FIXTURE, MARK 'A' CIRCUIT NUMBER 2, TYPICAL, 'EMERGENCY POWER'.
- BATTERY OPERATED EMERGENCY FIXTURE.
- DUPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- G DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- W DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED, PROVIDE WEATHERPROOF WHILE IN USE BOX FOR RECEPTACLE.
- SB DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT AS DIRECTED FOR SMARTBOARD.
- DUPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- G DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- QUADRAPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- G QUADRAPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED.
- QUADRAPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- G QUADRAPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER.
- QUADRAPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" A.F.F. TO CENTER LINE FOR DRINKING FOUNTAIN. PROVIDE GFI BREAKER IN PANELBOARD.
- TP DUPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED, TAMPER-PROOF.
- CM DUPLEX RECEPTACLE – 20AMP., 125 VOLT. 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR COFFEE MAKER, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD.
- MW DUPLEX RECEPTACLE – 20AMP., 125 VOLT. 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR MICROWAVE, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD
- R DUPLEX RECEPTACLE – 20AMP., 125 VOLT. 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR REFRIGERATOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD
- UCR DUPLEX RECEPTACLE – 20AMP., 125 VOLT. 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CONNECTION FOR UNDER COUNTER REFRIGERATOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE GFI BREAKER IN PANELBOARD.
- V DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI. 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT IN 4"x4"x2" BOX. PROVIDE STEEL BARRIER BETWEEN CATV/RECEPTACLE AND CONNECTOR WITH BUSHING FOR CATV CABLE.
- DUPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- G DUPLEX RECEPTACLE – 20AMP., 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT ABOVE COUNTER UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- QUADRAPLEX RECEPTACLE – 20AMP., 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- SINGLE RECEPTACLE – SEE DRAWINGS FOR NEMA CONFIGURATION.
- WALL MOUNTED JUNCTION BOX SIZE NOTED OR REQUIRED WITH BLANK SCREW COVER.
- WALL MOUNTED JUNCTION BOX SIZE NOTED OR REQUIRED WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION.
- P WALL MOUNTED JUNCTION BOX SIZE NOTED OR REQUIRED WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT POWER CONNECTION FOR PREWIRED MODULAR FURNITURE. #10 & #10(NEUTRAL) & #10 (GROUND) 1"C.
- PLUGMOLD ASSEMBLY WITH RECEPTACLES SPACED EVERY 24" ON CENTER. ALTERNATE CIRCUITS FOR EVERY OTHER RECEPTACLE. VERIFY LENGTH ON FLOOR PLANS. PROVIDE 1-1/4"C. FOR COMMUNICATION CABLING UP ABOVE ACCESSIBLE CEILING. SIMILAR TO WIREMOLD #4000 DESIGNER SERIES.

* ALL RECEPTACLES MOUNTED IN STUDENT AREAS SHALL BE TAMPER PROOF RECEPTACLES.

WALL SWITCHES (MOUNT 48" A.F.F. TO TOP OF BOX)

- $ — A.C. TYPE, SINGLE POLE, 20AMP, 120/277 VOLT.
- 3 $ — A.C. TYPE, 3-WAY, 20AMP, 120/277V VOLT.
- 4 $ — A.C. TYPE, 4-WAY, 20AMP, 120/277V VOLT.
- a $ — A.C. TYPE, 4-WAY, 20AMP, 120/277V VOLT, CONTROLS ZONE 'a'.
- IM $ — ICE MACHINE DISCONNECT SWITCH, INSTALL RECESSED JUNCTION BOX WITH FUSE BLOCK AND FUSES (SIZE PER MANUFACTURER), AT 14"H. (COORDINATE LOCATION WITH EQUIPMENT TO BE USED). INSTALL MANUAL MOTOR SWITCH AT 48"H. ENGRAVE JUNCTION BOX COVER TO READ 'ICE MACHINE FUSES'.
- $$ — TWO SWITCHES IN TWO GANG BOX UNDER ONE WALLPLATE (NOTE: IF SWITCHES ARE CONNECTED TO DIFFERENT PANELBOARDS PROVIDE STEEL BARRIER BETWEEN SWITCHES.).
- MC $ — MOMENTARY CONTACT, 15A., 3-POSITION.
- T $ — MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS, A.C. TYPE, 20AMP, 120/277 VOLT.
- M $ — MOTOR RATED TOGGLE SWITCH DISCONNECT, WITHOUT THERMAL OVERLOADS, A.C. TYPE, 20AMP, 120/277 VOLT.
- M $ 30/1 — MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS, A.C. TYPE, 30AMP, 120/277 VOLT.
- RL $ — RAISE/LOWER SWITCH FOR PROJECTION SCREEN.

LIGHTING CONTROLS

- OS — CEILING MOUNTED OCCUPANCY SENSOR.
- PP — POWER PACK FOR OCCUPANCY SENSOR.
- L1 — ROOM CONTROLLER – 1 ZONE DIMMING.
- L2 — ROOM CONTROLLER – 2 ZONE DIMMING.
- L3 — ROOM CONTROLLER – 3 ZONE DIMMING.
- EL — U.L. 924 TRANSFER DEVICE TO BRING DIMMED FIXTURES TO 100%.
- RC — ROOM CONTROLLER – ON/OFF NO DIMMING.
- D1 — WALL DIMMER – ON/OFF & 0-10V 1-ZONE DIMMING.
- D2 — WALL DIMMER – ON/OFF & 0-10V 2-ZONE DIMMING.
- D3 — WALL DIMMER – ON/OFF & 0-10V 2-ZONE DIMMING.
- $L — LOW VOLTAGE SWITCH, 2-BUTTON.
- $L2 — LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON.
- $L4 — LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 4-BUTTON.
- $O1 — OCCUPANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, ON/OFF.
- $O2 — OCCUPANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, ON/OFF, RAISE LOWER.
- PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHER, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.
- P — PHOTOCELL, TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS.

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GROUND SLAB.
- RUN CONCEALED IN CEILING OR WALLS.
- EXISTING – REMOVE IF EXPOSED, ABANDON IF CONCEALED, REMOVE ALL CONDUCTORS.
- SURFACE MOUNTED CONDUIT, RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E — EMERGENCY.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION.
- LA — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12 & 1#12 GROUND – 3/4"C. 3#12 & 1#12 GROUND – 3/4"C, 4#12 & 1#12 GROUND – 3/4"C, ETC AS PER NEC. LETTERS INDICATE PANELBOARD DESIGNATION.
- 10 LA — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#10 & 1#10 GROUND – 3/4"C. 3#10 & 1#10 GROUND – 3/4"C, 4#10 & 1#10 GROUND – 3/4"C, ETC AS PER NEC. LETTERS INDICATE PANELBOARD DESIGNATION.
- 8 LA — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#10 & 1#10 GROUND – 3/4"C. 3#10 & 1#10 GROUND – 3/4"C, 4#10 & 1#10 GROUND – 3/4"C, ETC AS PER NEC. LETTERS INDICATE PANELBOARD DESIGNATION.
- 6 — WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 – NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- • RISER: UP, RUNNING TO SOURCE.
- ○ RISER: DOWN, RUNNING TO SOURCE.

FIRE ALARM

- FACP — FIRE ALARM SYSTEM CONTROL PANEL.
- ANN — FIRE ALARM SYSTEM REMOTE ANNUNCIATOR.
- FPC — FIRE ALARM SYSTEM REMOTE ANNUNCIATOR.
- NAC — FIRE ALARM SYSTEM NOTIFICATION APPLIANCE CIRCUIT.
- FJ — JUNCTION BOX WITH HINGED COVER AND TERMINAL STRIP. 24"x24"x8" MINIMUM SIZE. SIZE LARGER AS REQUIRED.
- F — MINIMUM 3/4" CONDUIT UON. PROVIDE NUMBER AND TYPE OF CONDUCTORS AS REQUIRED BY MANUFACTURER. PROVIDE LARGER CONDUIT IF REQUIRED BY NEC.
- F — FIRE ALARM SYSTEM MANUAL PULL STATION.
- S — FIRE ALARM SYSTEM VOICE EVAC SPEAKER.
- S R — FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE.
- F — COMBINATION CHIME AND LIGHT.
- F — ALARM SIGNAL LIGHT.
- H — FIRE ALARM SYSTEM SIGNAL HORN.
- H R — FIRE ALARM SYSTEM SIGNAL HORN/STROBE.
- WP H R — FIRE ALARM SYSTEM SIGNAL HORN/STROBE. WEATHERPROOF.
- SS — FIRE ALARM SYSTEM SUPERVISORY SWITCH.
- TS — FIRE ALARM SYSTEM TAMPER SWITCH.
- FS — FIRE ALARM SYSTEM FLOW SWITCH.
- HD — FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR, 135 DEGREE/RATE OF RISER TYPE, CEILING MOUNTED.
- T HD — FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR, 190 DEGREE/RATE OF RISER TYPE, CEILING MOUNTED.
- SD — FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR, CEILING MOUNTED.
- E SD — FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR, CEILING MOUNTED, ELEVATOR RECALL.
- F — FIRE ALARM SYSTEM FLAME DETECTOR.
- DD — FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT.
- RP DD — FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT. PROVIDE AUXILIARY CONTACTS TO INITIATE SMOKE DAMPER CLOSURE, ADDRESSABLE. REMOTE ALARM PILOT LIGHT WITH KEY TEXT SWITCH.
- RT — FIRE ALARM SYSTEM REMOVE TEST STATION.
- ZC — FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE.
- ZM — FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE.
- ZS — FIRE ALARM SYSTEM ZONE MODULE, SIGNAL TYPE.
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS.
- F — FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED
- FIRE ALARM SYSTEM FIREMANS PHONE, MOUNTED 48" A.F.F. TO CENTERLINE.

PANELS AND POWER

- PANELBOARD SURFACE MOUNTED.
- PANELBOARD FLUSH MOUNTED.
- CON — CONTROL PANEL
- NON-FUSIBLE DISCONNECT SWITCH, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING.
- FUSIBLE DISCONNECT SWITCH, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING. FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS.
- CIRCUIT BREAKER, XX/YY WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES.
- MAGNETIC MOTOR STARTER, SIZE 1.
- COMBINATION NON-FUSIBLE DISCONNECT SWITCH AND STARTER, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING.
- COMBINATION FUSIBLE DISCONNECT SWITCH AND STARTER, XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING. FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS.
- 2 — MOTOR: SHOWN 2HP (TYPICAL)
- CIRCUIT BREAKER
- NONFUSIBLE SWITCH
- FUSIBLE SWITCH
- AUTOMATIC TRANSFER SWITCH
- AUTOMATIC TRANSFER SWITCH (OPEN TRANSITION) WITH BYPASS-ISOLATION
- DRAWOUT CONNECTION
- PAD MOUNTED TRANSFORMER
- LOAD BREAK CONNECTION
- GROUND
- M — METER
- GROUNDING ELECTRODE CONNECTION.
- G — ENGINE GENERATOR.

MISCELLANEOUS EQUIPMENT

- C — CONTACTOR
- R — RELAY
- T — TRANSFORMER
- SITE LIGHTING POLE
- EXTERIOR POST TOP LIGHT
- WH — WATER HEATER
- UH — UNIT HEATER
- EF — EXHAUST FAN
- GA — GENERATOR ANNUNCIATOR PANEL
- VAV — VARIABLE AIR VOLUME BOX
- ELE — ELEVATOR CONTROLLER
- VFD — VARIABLE FREQUENCY DRIVE
- GEN — GENERATOR ANNUNCIATOR PANEL
- ATS — AUTOMATIC TRANSFER SWITCH
- MTS — MANUAL TRANSFER SWITCH
- TS — TIME SWITCH

DRAWING CONVENTIONS

- NEW WORK
- EXISTING TO REMAIN
- XR — EXISTING TO REMOVE
- EX — EXISTING TO REMAIN
- XRR — EXISTING TO BE RELOCATED
- XRP — EXISTING TO BE REPLACED
- XRL — EXISTING RELOCATED
- XR — EXISTING TO BE REMOVED

FLOOR BOXES

- RECESSED FLOOR BOX WITH FULL EIGHT GANGS. SIMILAR TO WALKER RFB11 OR PRIOR APPROVED EQUALS. ARCHITECT TO SELECT FINISH.
  PROVIDE WITHIN 2-DUPLEX RECEPTACLES NEMA 5-20R.
  PROVIDE CONDUIT AS SHOWN ON DRAWINGS.
  PROVIDE TWO (2) 1-1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
  PROVIDE TWO (2) 1-1/4" CONDUITS TO TBB. PROVIDE ADDITIONAL CONDUITS AS SHOWN ON DRAWINGS.
  PROVIDE PROTECTIVE COLLAR FOR STUBS.
  PROVIDE WITH FLOOR EXTENSION FOR MOUNTING IN GYMNASIUM FLOOR.
- A (X) — RECESSED FLOOR BOX – QUADRAPLEX RECEPTACLE – 20AMP, 125 VOLT, 2-POLE, 3 WIRE, GROUNDED TYPE, NEMA 5-20R, PROVIDE WITH 6 GANG, ARCHITECT TO SELECT COLORS, SIMILAR TO WALKER EVOLUTION SERIES EFB65-OG/EFB610CTR/EFB610SBTNK OR PRIOR APPROVED EQUAL FOR TYPICAL UNITS.
  PROVIDE TWO (2) 1-1/4" CONDUITS TO CABLE BASKET
  (X) INDICATES NUMBER OF RJ45 JACKS AND CAT6 CABLES BACK TO THE NEAREST TBB
  PROVIDE BARE CONCRETE RING WHERE INSTALLED IN FINISHED CONCRETE FLOOR.
- G — RECESSED FLOOR BOX – QUADRAPLEX RECEPTACLE – 20AMP, 125 VOLT, GFI, 2-POLE, 3 WIRE GROUNDED TYPE, (2) NEMA 5-20R, SIMILAR TO WALKER 881RC4 OR PRIOR APPROVED EQUAL.

MISCELLANEOUS

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CKT	CIRCUITS
CL	CENTER LINE
CU	COPPER
CWP	COLD WATER PIPE
DIA	DIAMETER
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EP	EXPLOSION PROOF
FMC	FLEXIBLE METAL CONDUIT
FLA	FULL LOAD AMPERES
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID METAL CONDUIT
GRD	GROUND
H	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE
HP	HORSE POWER
KVA	KILOVOLT-AMPERES
KW	KILOWATT
KCMIL	THOUSAND CIRCULAR MILS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MT	MOUNT
N	NEUTRAL
NIC	NOT IN CONTRACT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
P	POLE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	PVC (POLYVINYL CHLORIDE) CONDUIT
SLD	SINGLE LINE DIAGRAM
TBB	TELEPHONE BACKBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSORS
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE
W	WIRE
WP	WEATHERPROOF
#	NUMBER
3R	NEMA 3R WEATHERPROOF ENCLOSURE
4X	NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

COMUNICATIONS

- COMMUNICATION OUTLET – SEE DETAILS SHEET E8 SERIES.
- C — COMMUNICATION OUTLET – (C) MOUNTED ABOVE COUNTER – SEE DETAILS SHEET E8 SERIES.
- COMMUNICATION OUTLET – SEE DETAILS SHEET E8 SERIES.
- COMMUNICATION OUTLET – SEE DETAILS SHEET E8 SERIES.
- TBB — TELEPHONE BACKBOARD – 3/4" EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN.
- WIRELESS ACCESS POINT – SEE DETAILS SHEET E8 SERIES.
- FLOOR MOUNTED COMMUNICATIONS RACK. SEE COMMUNICATIONS RISERS, FLOOR PLANS AND ELEVATIONS FOR FURTHER REQUIREMENTS. E4 SERIES AND E8 SERIES DRAWINGS.
- CCTV — SECURITY CAMERAS – SEE DETAILS SHEET E8 SERIES.
- S M — IP SPEAKER (MASTER) – SEE DETAILS SHEET E8 SERIES.
- S S — IS SPEAKER (SATELLITE) – SEE DETAILS SHEET E8 SERIES.

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ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26888 KENNETH RAY GUNN 03-06-24

SHEET TITLE :	ELECTRICAL LEGEND
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	E0.1

- Tuesday, March 5, 2024 3:49:51 PM

GENERAL ELECTRICAL NOTES:

1. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL PLANS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC..
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.
5. ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT, JOINED AND TERMINATED WITH SET SCREW STEEL FITTING, 3/4" CONDUIT MINIMUM.
6. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
7. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
8. THE LOCATION OF OUTLETS, FIXTURES AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
9. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS. POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
12. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
13. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC, EMT WILL NOT BE ACCEPTED.
14. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPBOARD CEILING.
15. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL WIRES.
16. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
17. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.
18. ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
19. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
20. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
21. ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
22. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENING SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK IS INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS COMPLETED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
24. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACTOR SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPNSIBLE FOR ALL OVERTIME, HOLIDAY AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
25. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY DRIVER CONNECTED AHEAD OF LOCAL SITCHING, UNLESS EMERGENCY LIGHTING IS ON EMERGENCY CIRCUIT FROM A GENERATOR.
26. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER RACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
27. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
28. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
29. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDED GROUND WIRE.
30. INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM EXISTING DRAWINGS AND SITE SURVEY. PRIOR TO BID, THE ELECTRICAL CONTRACTOR SHALL VISIT SITE TO SURVEY EXISTING CONDITIONS AFFECTING WORK. INCLUDE NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK, INCLUDING RELOCATION OF EXISTING EQUIPMENT TO ALLOW FOR NEW CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND RESOLVED PRIOR TO BID. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
31. MULTI-POLE BREAKERS SHALL BE USED TO SERVE MULTIWIRE BRANCH CIRCUITS. MULTIPLE SINGLE POLE BREAKERS MY BE USED IN CONJUNCTION WITH U.L. LISTED HANDLE TIES THAT WILL INITIATE A COMMON DISCONNECT OF ALL UNGROUNDED CONDUCTORS. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID AND BIDDING ACCORDINGLY.
2. ALL DEMOLITION WORK SHALL BE PERFORMED WITH CARE NOT TO DISTURB THE OTHER EXISTING UTILITIES. IF EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR, THE EXISTING UTILITIES ARE TO FIXED TO IT'S ORIGINAL CONDITION WITHOUT DELAY, BY AND AT THE EXPENSE OF THE CONTRACTOR.
3. LEGEND SYMBOLS ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION WORK. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.
4. EXISTING BRANCH WIRING AND DEVICES SHOWN IS DIAGRAMMATICAL ONLY BASED ON EXISTING DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR EXACT LOCATIONS.
5. TRENCH, CUT AND REMOVE EXISTING SURFACES AS REQUIRED FOR THE INSTALLATION OF ALL NEW ELECTRICAL PROVISIONS.
6. CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE.
7. OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL SURFACE.
8. EXISTING JUNCTION BOXES MAY BE USED AS NOTED IF OF THE PROPER SIZE. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.
9. EXISTING PANELBOARDS SHALL BE UTILIZED TO FACILITATE THE WORK AS SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER (WHENEVER POSSIBLE), FRAME SIZE, AIC RATING AND TYPE AS EXISTING. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL MATERIALS FOR PANELBOARDS TO PROPERLY MEET THE INTENT OF THE DRAWINGS.
10. WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT, ETC. ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC. EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.
11. IN ALL AREA TO BE REWORKED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (LIGHT FIXTURES, DEVICES, ETC) AND ALL BRANCH CIRCUITS AND FEEDERS NOT REQUIRED FOR CONTINUATION OF EXISTING CIRCUITS TO REMAIN AND REWORK THE AREA AS SHOWN. ANY CIRCUITS BROKEN BY DEMOLITION FOR THE NEW BUILDING ALTERATIONS SHALL BE REPLACED AS REQUIRED. PROVIDE BLANK COVERS FOR ALL UNUSED OUTLETS NEEDED FOR CONTINUITY OF EXISTING CIRCUITS.

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ALABAMA REGISTERED PROFESSIONAL ENGINEER
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03-06-24
KENNETH RAY GUNN, JR.

SHEET TITLE :	ELECTRICAL LEGEND AND NOTES
MCKEE JOB # :	23.229
DRAWN BY :	KRG
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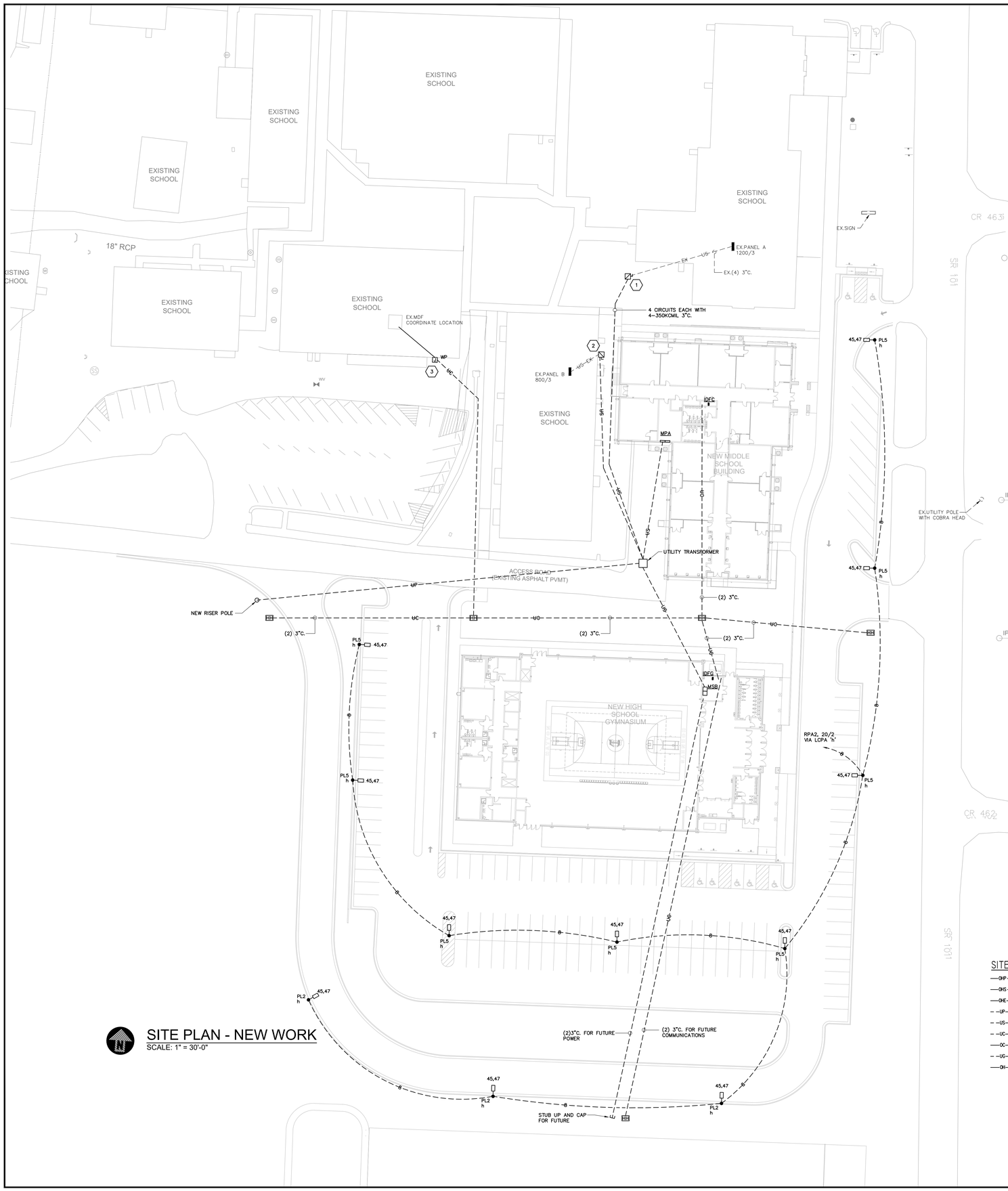


SITE PLAN - NEW WORK

SCALE: 1" = 30'-0"

UNDERGROUND UTILITY NOTES:

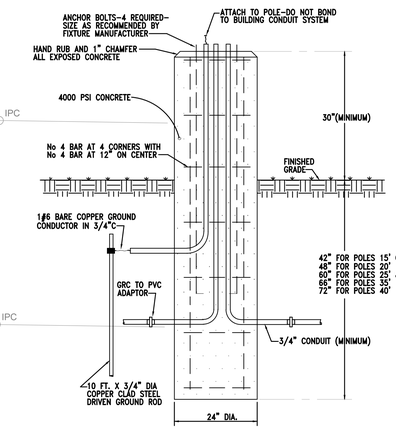
1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
   a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
   b. LOW VOLTAGE CONDUCTOR INSTALLATION
   c. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NESC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
   a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
   b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
   c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
   d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.

GENERAL NOTES:

1. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
3. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
4. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING BACKBOARDS.
5. COORDINATE ALL POWER SHUT DOWN WITH GC/OWNER 3 WEEKS IN WRITING PRIOR TO SHUT DOWN. PROVIDE DATE, DURATION AND LOCATION TO BE SHUT DOWN.

NOTES:

1. **CONCRETE SHALL TEST TO BE 4,000 PSI STRENGTH IN 28 DAYS.**
2. **SEE LIGHT FIXTURE SCHEDULE FOR LIGHTING CONFIGURATION.**
3. **ALL DIMENSIONS SHALL BE COORDINATED AND COMPLY WITH GEOTECHNICAL REPORT.**
4. **INSTALLATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS IF MORE STRINGET.**
5. **POLE BASE SHALL BE IN FULL CONTACT WITH THE CONCRETE BASE.**
6. **CONTRACTOR SHALL INCLUDE IN THEIR BASE BID PRICE TO PAINT POLE BASES PER OWNER OR ENGINEER'S DIRECTION.**



1 / E1.1 DETAIL - TYPICAL ELEVATED CONCRETE POLE BASE

NO SCALE

SHEET NOTES:

1. PROVIDE NEW SERVICE ENTRANCE RATED 1200/3 DISCONNECT FUSED AT 1200 AMPS. REFER TO GROUNDING DETAILS E7.2. INTERCEPT EXISTING (4) CIRCUITS OF 4-350KCMIL 3"C. AND TERMINATE AT NEW DISCONNECT NOTED. MOUNT DISCONNECT ON UNISTRUT.
2. PROVIDE NEW SERVICE ENTRANCE RATED 800/3 DISCONNECT FUSED AT 800 AMPS. REFER TO GROUNDING DETAILS E7.2. INTERCEPT EXISTING (2) CIRCUITES OF 4-600KCMIL 4"C. AND TERMINATE AT NEW DISCONNECT NOTED.
3. ROUTE (2) 3"C. FROM MDF IN LIBRARY ABOVE CEILING TO EXTERIOR JUNCTION BOX. TRANSITION CONDUITS TO UNDERGROUND AT EXTERIOR OF BUILDING.

SITE LEGEND

—OHP— OVERHEAD ELECTRICAL BY UTILITY	Tx PAD MOUNTED TRANSFORMER	HH NEW IN GRADE PULLBOX. PROVIDE 30"x48"Lx30"D IN-GRADE JUNCTION BOX FOR COMMUNICATIONS SYSTEM. BOX SHALL BE COMPOSITE MATERIAL OF HIGH STRENGTH WITH COVER AND STAINLESS STEEL INSERTS. COVER SHALL HAVE LOGO INDICATING CONTENTS WITHIN COMMUNICATIONS BOX SHALL BE DESIGNED FOR LIGHT TRAFFIC AREAS. MOUNT COVER FLUSH WITH GRAD. MOUNT ON A 12 INCH GRAVEL BED WITH 9 INCHES OF CONCRETE AROUND PERIMETER AND A 3 INCH SOIL TOP. SUBMIT BOX AND COVERS FOR APPROVAL. BOX TO BE EQUAL TO CDR SYSTEMS CORP., MEDEL #A10-3048-30.
—OHS— OVERHEAD SECONDARY	POLE MOUNTED TRANSFORMER	
—OHE— OVERHEAD ELECTRICAL	UTILITY POLE	
— —UP— — UNDERGROUND PRIMARY	UTILITY POLE WITH UTILITY FLOOD LIGHT	
— —US— — UNDERGROUND SECONDARY		
— —UC— — UNDERGROUND COMMUNICATION		
—OC— OVERHEAD COMMUNICATION		
— —UG— — UNDERGROUND BRANCH CIRCUITING		
—OH— OVERHEAD BRANCH CIRCUITING		

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McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER KENNETH RAY GUNN, JR. Personally Signed NO. 26988 03-06-24

SHEET TITLE :	SITE PLAN - NEW WORK
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

SHEET NO. : E1.1

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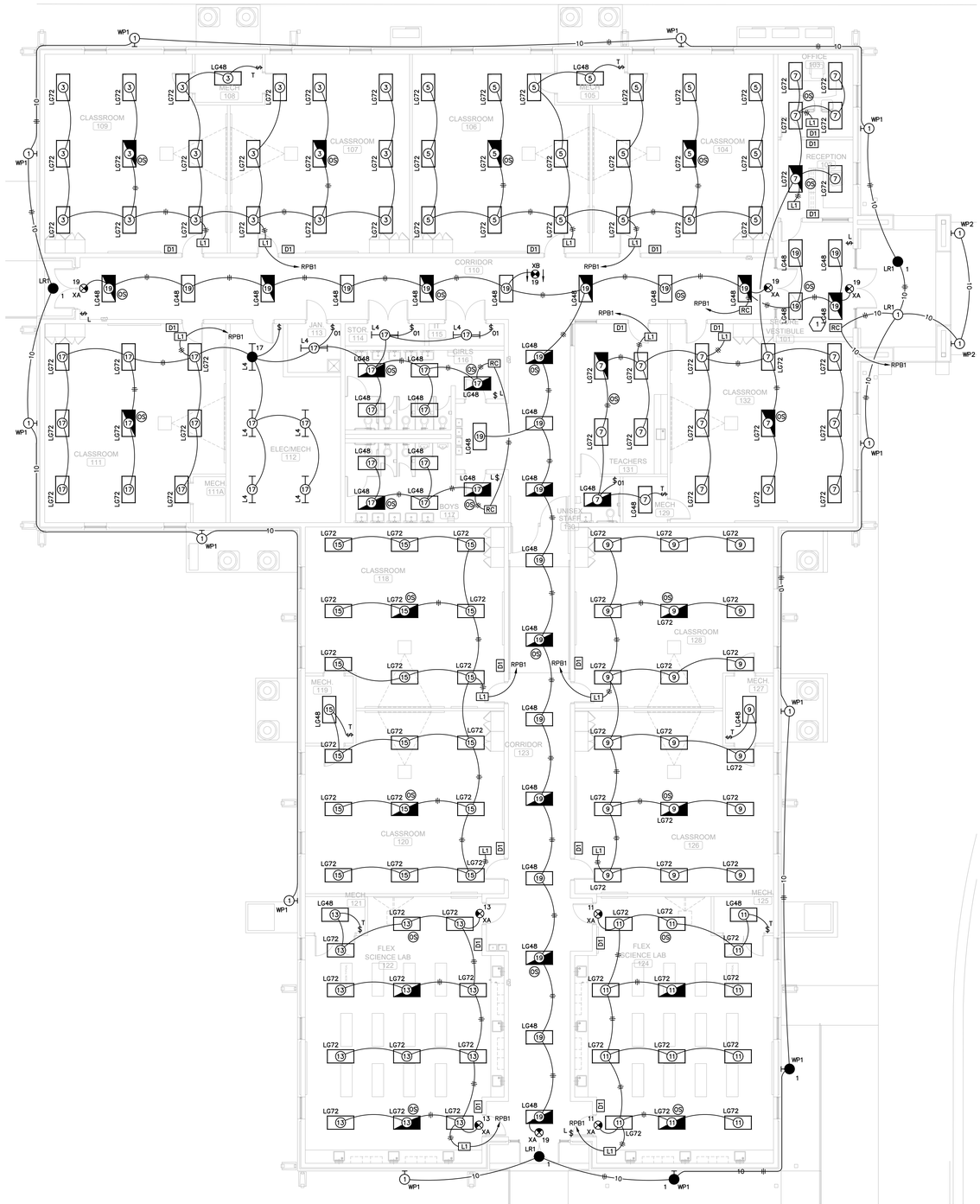
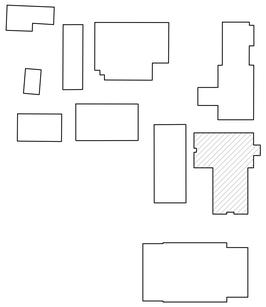
- Tuesday, March 5, 2024 3:50:11 PM



FLOOR PLAN CLASSROOM - LIGHTING
SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. PROVIDE ROOM CONTROLLER WITH INTERNAL ASTRONOMICAL TIME CLOCK TO MEET ASHRAE 90.1 2013.



KEY PLAN
SCALE: NTS

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ALABAMA REGISTERED PROFESSIONAL ENGINEER
Personally Signed
NO. 26986
03-06-24
KENNETH RAY GUNN, JR.

SHEET TITLE :	FLOOR PLAN CLASSROOM - LIGHTING
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	.
REVISED DATE:	.
REVISED DATE:	.

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SHEET NO. : E2.1

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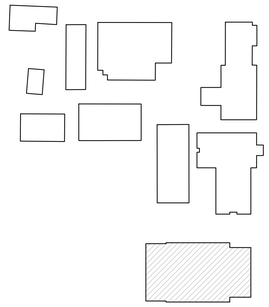
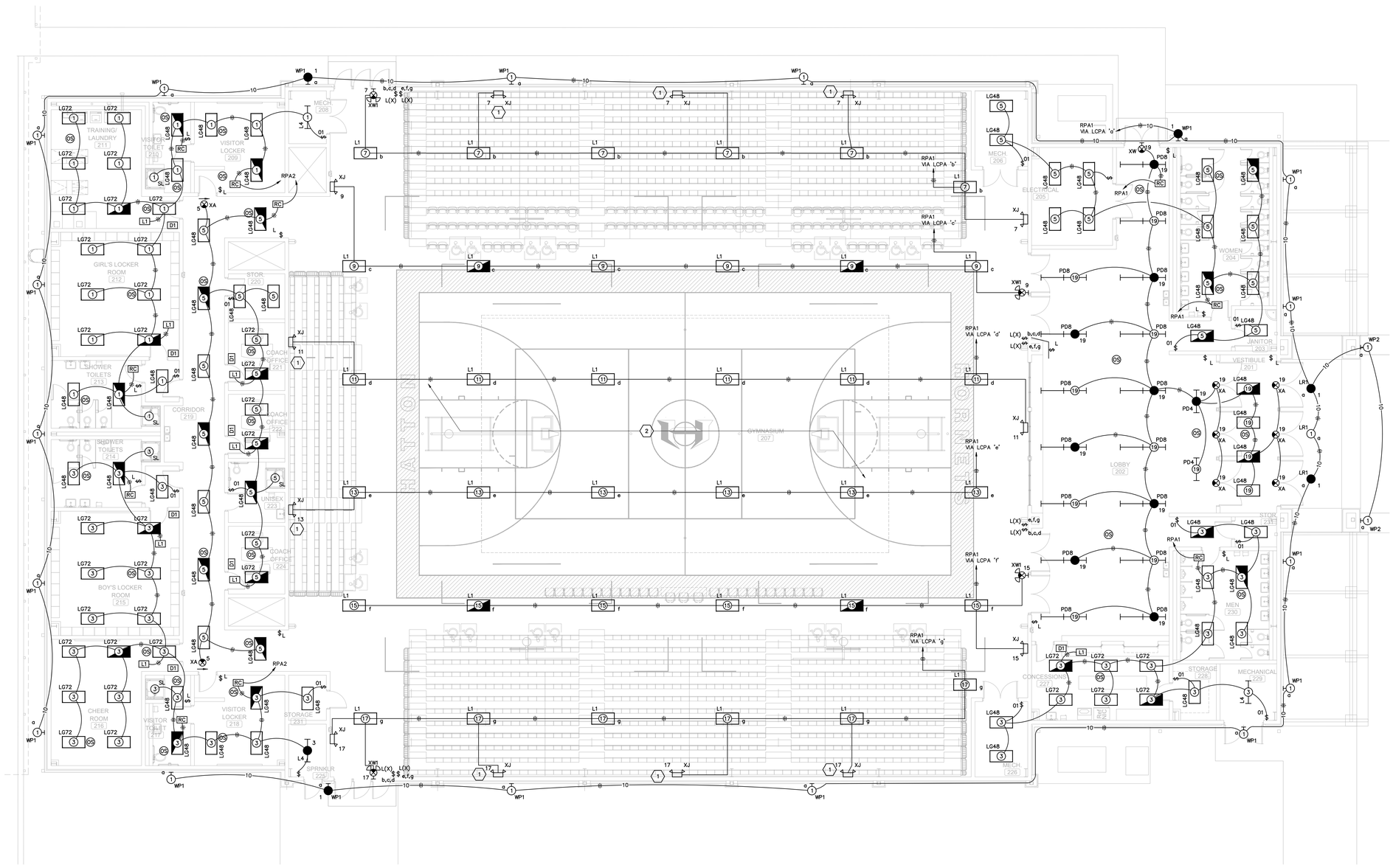


KEY PLAN
SCALE: NTS



FLOOR PLAN GYMNASIUM - LIGHTING

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

SHEET NOTES:

1. MOUNT DEVICE 68" ABOVE TOP OF BLEACHERS.
2. PROVIDE WIREGUARDS ON ALL EXIT SIGNS AND EMERGENCY LIGHTING IN GYMNASIUM.

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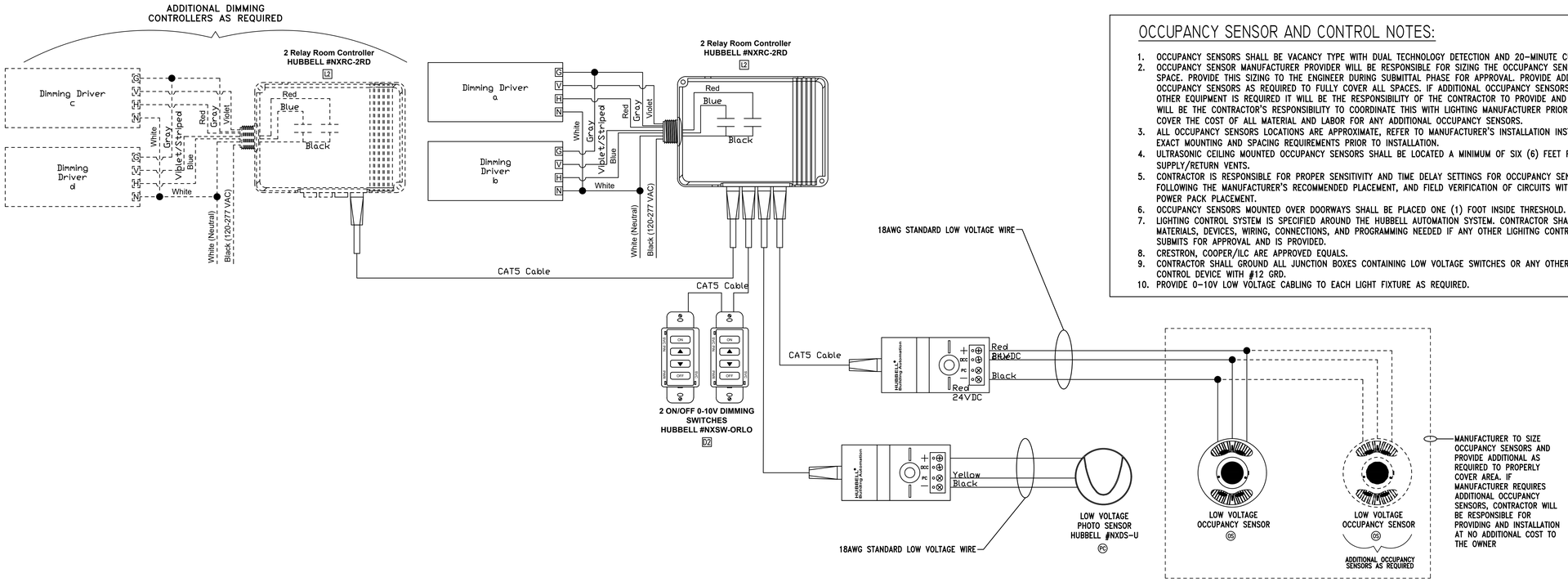
ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN JR. 03-06-24

SHEET TITLE :	FLOOR PLAN GYMNASIUM - LIGHTING
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : E2.2

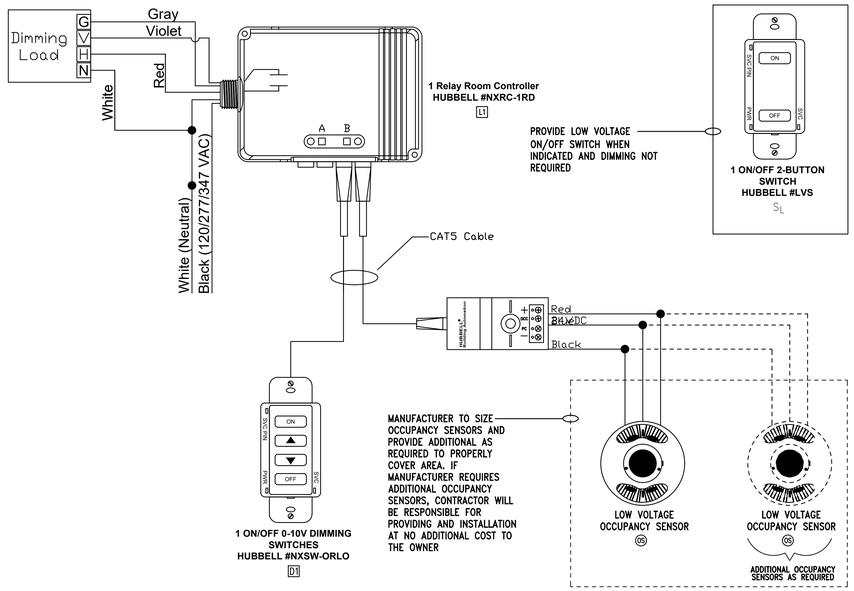
- Tuesday, March 5, 2024 3:52:30 PM



OCCUPANCY SENSOR AND CONTROL NOTES:

1. OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
2. OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
3. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
4. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
7. LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHITNG CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
8. CRESTRON, COOPER/ILC ARE APPROVED EQUALS.
9. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
10. PROVIDE 0-10V LOW VOLTAGE CABLING TO EACH LIGHT FIXTURE AS REQUIRED.

1 / E2.3 TYPICAL MULTIPLE OCCUPANCY SENSOR, PHOTOCELL, MULTIPLE 0-10V DIMMING ZONES
NO SCALE



2 / E2.3 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM
NO SCALE

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
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ALABAMA REGISTERED NO. 26998 PROFESSIONAL ENGINEER KENNETH RAY GUNN, JR. 03-06-24

SHEET TITLE :	LIGHTING CONTROLS
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

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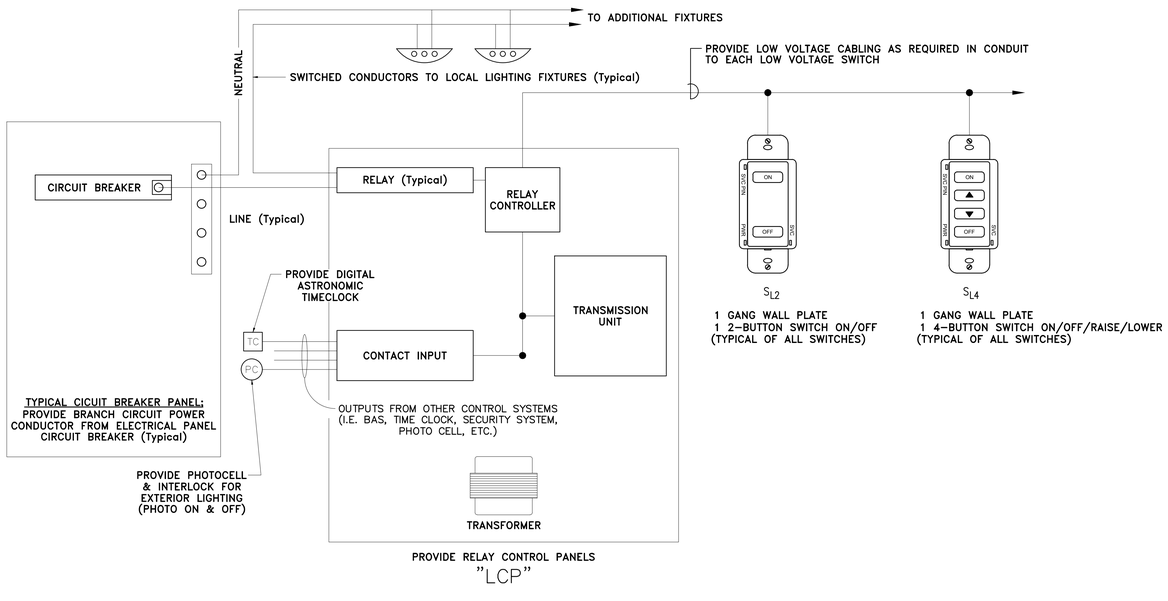
SHEET NO. : E2.3

- Tuesday, March 5, 2024 3:52:41 PM

LIGHTING CONTROL SYSTEM NOTES

1. PROVIDE BLINK FLASH MODULE TO ENABLE THE LIGHTING CONTROL SYSTEM TO BLINK THE LIGHTS FOR WARNING THE LIGHTS ARE ABOUT TO GO OFF.
2. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
3. ALL WIRING FOR LIGHTING CONTROL SYSTEM SHALL BE INSTALLED IN CONDUIT.
4. ALL DEVICES ARE SHOWN TYPICAL, SEE DRAWINGS FOR ACTUAL DEVICE COUNT.
5. PROVIDE SUBMITTAL DRAWINGS SHOWING THE COMPLETE LIGHTING CONTROL SYSTEM (RELAYS, PANELS, SWITCHES, DIMMER RELAYS, AMPLIFIERS, INTERCONNECTING CIRCUITRY, ETC.) SHALL BE SUBMITTED TO THE ENGINEER OF RECORD DURING THE SUBMITTAL REVIEW. SUBMITTALS WILL BE REJECTED WITHOUT FULL DRAWINGS.
6. PROVIDE 6-CHANNEL ASTRONOMIC DIGITAL TIMECLOCK WITH SYSTEM FOR AUTOMATIC LIGHTING CONTROL SCHEDULE OF REQUIRED INTERIOR LIGHTING AUTOMATIC SHUT OFF AND EXTERIOR LIGHTING EVENING ON/OFF SCHEDULE. INTERIOR LIGHTING SHALL FLASH ONE MINUTE PRIOR TO SHUT OFF. SYSTEM SHALL ALLOW LOCAL OVERRIDE OF AUTOMATIC SHUT OFF FOR UP TO 2 HOURS.
7. SYSTEM PROGRAMMING GROUPS, PATTERNS, ETC. SHALL BE CONDUCTED BY CERTIFIED MANUFACTURER'S REPRESENTATIVE SUBJECT TO OWNER'S APPROVAL.
8. PROVIDE 20AMP 120VAC DEDICATED CIRCUIT TO LIGHTING CONTROL PANELS AND TIMECLOCK.
9. ALL PROGRAMMING SHALL BE PROVIDED BY A CERTIFIED MANUFACTURER REPRESENTATIVE PROVIDED AT THE JOBSITE. COORDINATE WITH OWNER FOR FINAL PROGRAMMING REQUIREMENTS AND IMPLEMENT INTO FINAL PROGRAMMING.
10. APPROVED MANUFACTURER'S ARE HUBBELL, EATON, NEXLIGHT, AND N-LIGHT.



1 / E2.4 LOW VOLTAGE LIGHTING CONTROL DETAIL
NO SCALE

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

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ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN JR. 03-06-24

SHEET TITLE : LIGHTING CONTROLS

MCKEE JOB # : 23.229

DRAWN BY : KRG

DATE: 03.06.2024

REVISED DATE:

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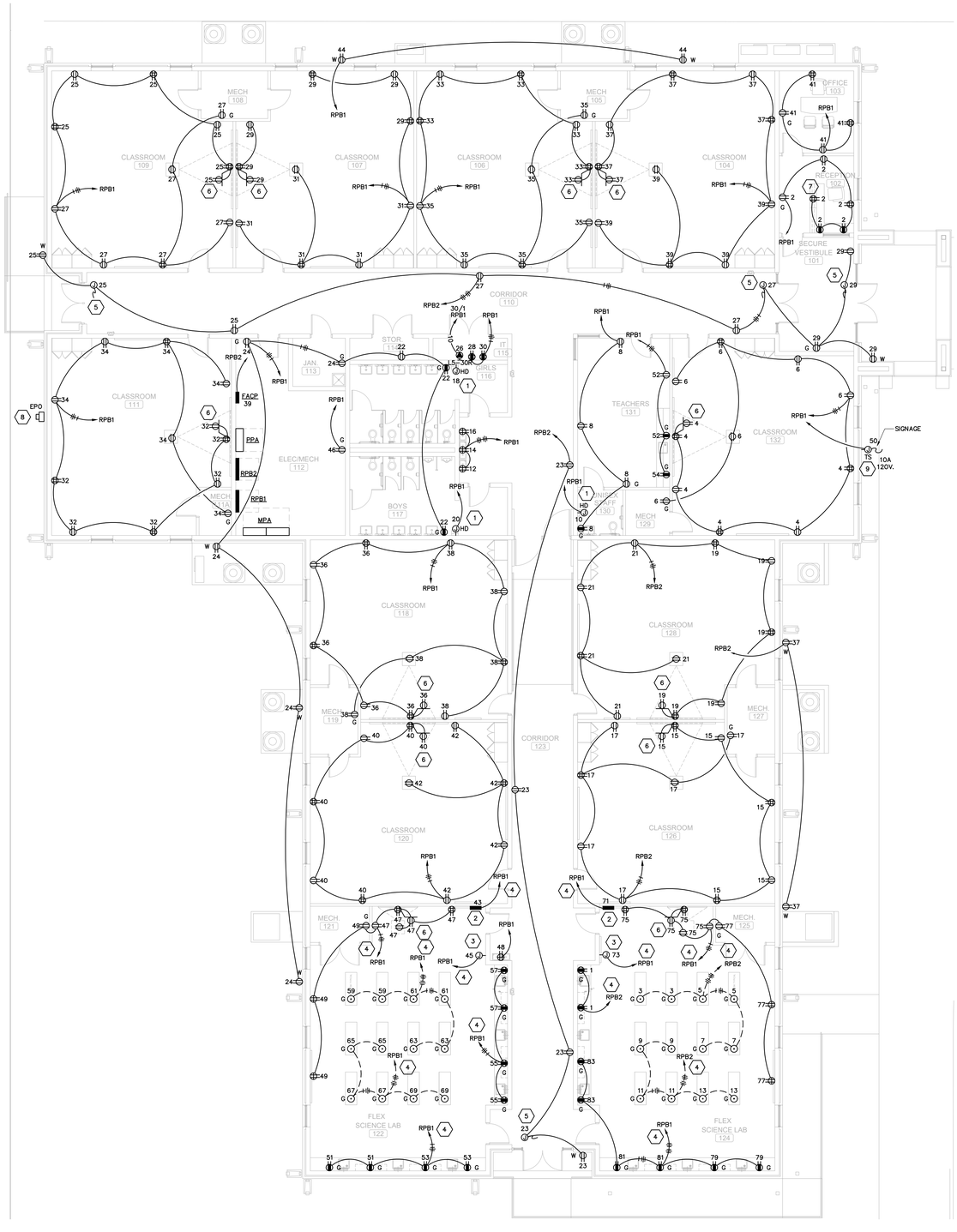
SHEET NO. : E2.4

Tuesday, March 5, 2024 3:52:51 PM

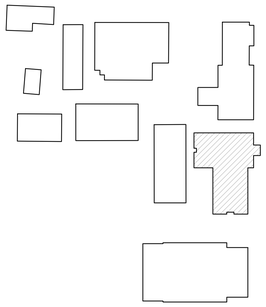


FLOOR PLAN CLASSROOM - POWER

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

SHEET NOTES:

1. PROVISIONS FOR ELECTRIC HAND DRYER. MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED.
2. EQUIPMENT SHUT OFF PANELBOARD ABOVE CEILING PROVIDED BY OTHERS. PROVIDE 120V., BRANCH CIRCUITING AS REQUIRED. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. CONNECT TO GOOGLE STORAGE CABINET. PROVIDE 120V., CONNECTION. COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. CONNECT ALL BRANCH CIRCUITS TO CONTROL PANEL FOR THIS ROOM.
5. POWER FOR SECURITY DOOR.
6. MOUNT RECEPTACLE 7'-0"A.F.F.
7. MOUNT IN KNEE SPACE OF DESK.
8. COORDINATE AND PROVIDE PROPER LOCK BOX AND KILL SWITCH CONNECTED TO THE MAIN SHUNT TRIP CIRCUIT BREAKER OF PANEL. PROVIDE PLAQUE INDICATING EMERGENCY BUILDING POWER DISCONNECT.
9. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.



KEY PLAN

SCALE: NTS

ASHRAE EXCEPTIONS:

1. THE OWNER HAS TAKEN EXCEPTION FOR THE FOLLOWING SECTION OF ASHRAE 90.1 2013.
   A. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS.
   B. SECTION 8.4.3 ELECTRIC ENERGY MONITORING.

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

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ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN JR. 03-06-24

SHEET TITLE :	FLOOR PLAN CLASSROOM - POWER
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	.
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REVISED DATE:	.

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GA#23-246

SHEET NO. : E3.1

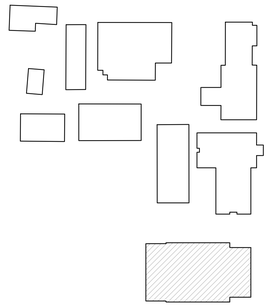
- Tuesday, March 5, 2024 3:52:59 PM

SHEET NOTES:

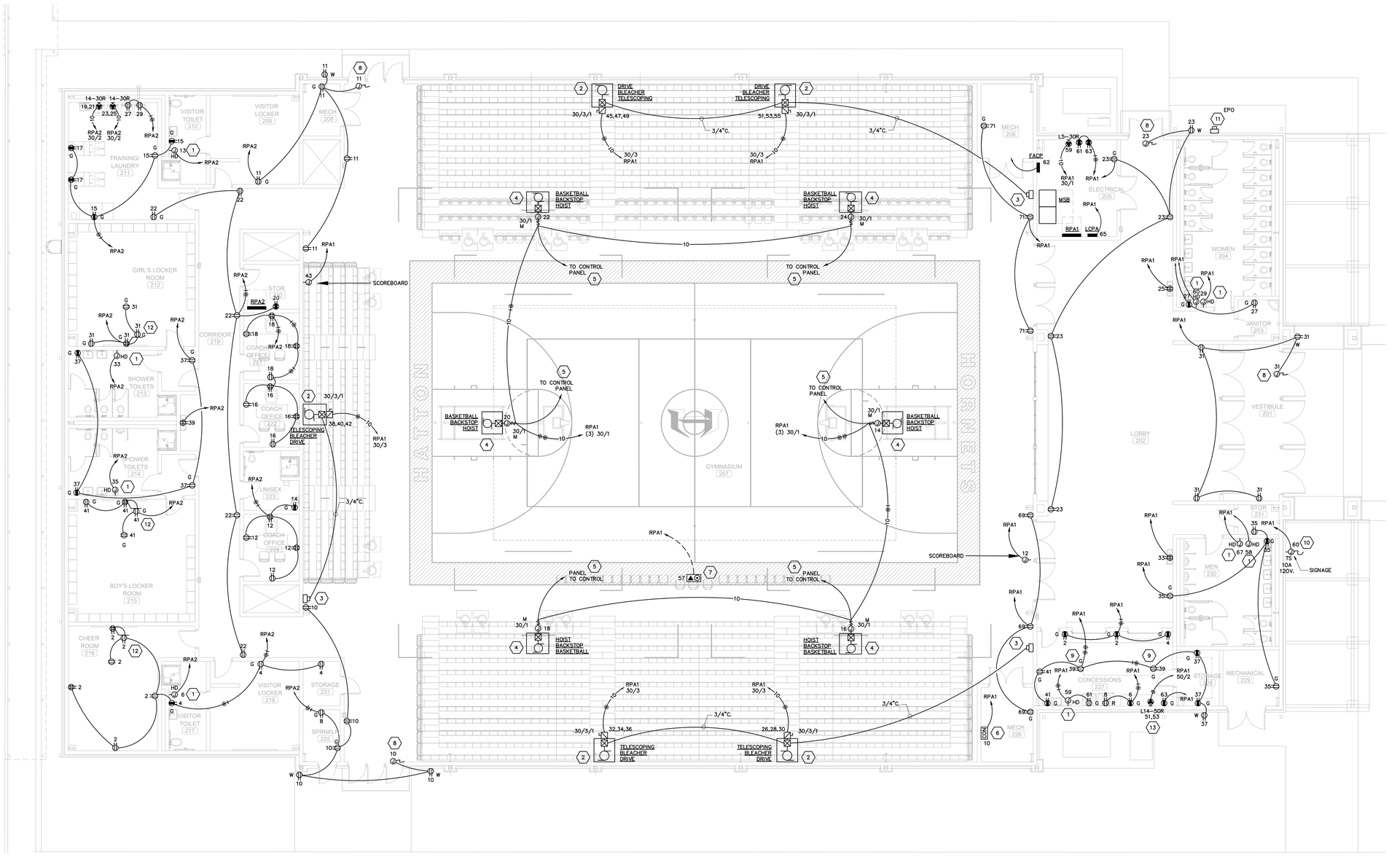
1. PROVISIONS FOR ELECTRIC HAND DRYER. MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED.
2. TELESCOPING BLEACHER DRIVE, CONTROL SWITCH, CONTRACTOR AND LIMIT SWITCHES FURNISHED WITH DRIVE. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
3. PUSHBUTTON CONTROL SWITCH – 3" DEEP SINGLE GANG BOX 48" AFF. PROVIDE WITH PROTECTIVE GUARD IN LOCKER COVER.
4. BASKETBALL BACKSTOP HOIST, CONTROL SWITCH AND LIMIT SWITCHES FURNISHED WITH HOIST. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES AND EQUIPMENT AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
5. CONTRACTOR SHALL PROVIDE 3/4" CONDUIT TO BASKETBALL HOIST CONTROL PANEL.
6. BASKETBALL HOIST CONTROL PANEL. (PROVIDE BY HOIST CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR.) PROVIDE WITH WIRE GUARD. CONTRACTORS SHALL VERIFY EXACT LOCATION OF CONTROL PANEL WITH HOIST PROVIDER PRIOR TO ROUGH-IN. ADJUST AS REQUIRED WITH ALL CONDUIT AND POWER REQUIRED.
7. PROVIDE RECESSED MOUNTED FLOOR BOX 12" IN FRONT OF FULLY EXTENDED BLEACHERS.
8. POWER FOR SECURITY DOOR.
9. PROVIDE BRUSHED ALUMINUM POWER POLE FOR GFI RECEPTACLE AT TABLE OF CONCESSION.
10. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
11. COORDINATE AND PROVIDE PROPER LOCK BOX AND KILL SWITCH CONNECTED TO THE MAIN SHUNT TRIP CIRCUIT BREAKER OF PANEL. PROVIDE PLAQUE INDICATING EMERGENCY BUILDING POWER DISCONNECT.
12. MOUNT RECEPTACLE 7'-0"A.F.F.
13. PROVIDE OUTLET FOR OWNER FURNISHED EQUIPMENT COORDINATE RATING WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

ASHRAE EXCEPTIONS:

1. THE OWNER HAS TAKEN EXCEPTION FOR THE FOLLOWING SECTION OF ASHRAE 90.1 2013.
   A. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS.
   B. SECTION 8.4.3 ELECTRIC ENERGY MONITORING.



KEY PLAN
SCALE: NTS



FLOOR PLAN GYMNASIUM - POWER
SCALE: 1/8" = 1'-0"

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ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26886 KENNETH RAY GUNN 03-06-24

SHEET TITLE :	FLOOR PLAN GYMNASIUM - POWER
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : E3.2

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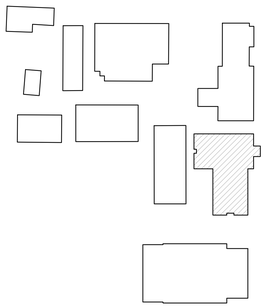
FLOOR PLAN CLASSROOM - EQUIPMENT POWER

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



KEY PLAN

SCALE: NTS

GENERAL NOTES:

1. SEE SHEET E3.5 GENERAL EQUIPMENT SCHEDULE FOR ELECTRICAL REQUIREMENTS.

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

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ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26998 KENNETH RAY GUNN JR. 03-06-24

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GA#23-246

SHEET TITLE :	FLOOR PLAN CLASSROOM - EQUIPMENT POWER
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	.
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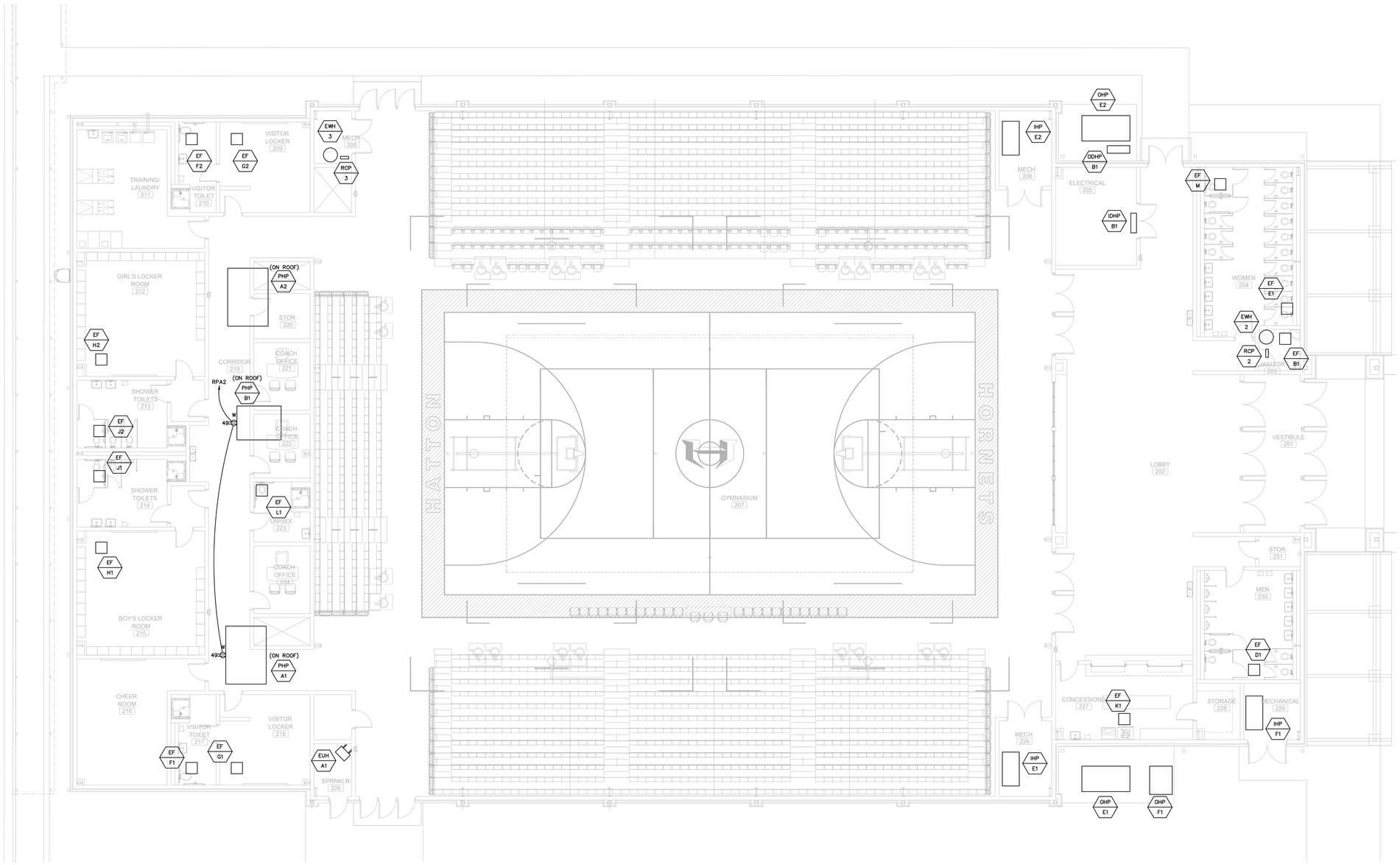
SHEET NO. : E3.3

- Tuesday, March 5, 2024 3:53:12 PM



FLOOR PLAN GYMNASIUM - EQUIPMENT POWER

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

GENERAL NOTES:

1. SEE SHEET E3.5 GENERAL EQUIPMENT SCHEDULE FOR ELECTRICAL REQUIREMENTS.

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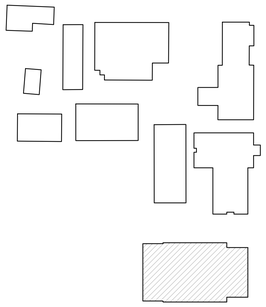
Birmingham, AL 35242
GA#23-246



KEY PLAN
SCALE: NTS

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9333

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN JR. 03-06-24

SHEET TITLE :	FLOOR PLAN GYMNASIUM - EQUIPMENT POWER
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	.
REVISED DATE:	.
REVISED DATE:	.

SHEET NO. : E3.4

- Tuesday, March 5, 2024 3:53:19 PM

GENERAL EQUIPMENT SCHEDULE CLASSROOMS

EQUIPMENT MARK:	EQUIPMENT DESCRIPTION:	VOLTAGE/PHASE:	ELECTRICAL CHARACTERISTICS:			DISCONNECT:	FUSE:	HOMERUN:	FEEDER:
			HP	KW	AMPS				
EF-A1	EXHAUST FANS	120V., 1PH.	----	0.245	----	TS	NOTE 7	RPB2# 33	2#12 & 1#12(G) 3/4"C.
EF-A2	EXHAUST FANS	120V., 1PH.	----	0.245	----	TS	NOTE 7	RPB2# 33	2#12 & 1#12(G) 3/4"C.
EF-B1	EXHAUST FANS	120V., 1PH.	----	0.08	----	TS	NOTE 7	RPB2# 35	2#12 & 1#12(G) 3/4"C.
EF-B2	EXHAUST FANS	120V., 1PH.	----	0.08	----	TS	NOTE 7	RPB2# 35	2#12 & 1#12(G) 3/4"C.
EF-C1	EXHAUST FANS	208V., 3PH.	1/2	----	----	TS		MPA# 43,45,47	2#12 & 1#12(G) 3/4"C.
EF-C2	EXHAUST FANS	208V., 3PH.	1/2	----	----	TS		MPA# 49,51,53	2#12 & 1#12(G) 3/4"C.
ICCHP-A1	INDOOR CASSETTE HEAT PUMP	208V., 1PH.	----	----	1.5	30/2/1	F	RPB2# 2,4	2#12 & 1#12(G) 3/4"C.
ICCHP-B1	INDOOR CASSETTE HEAT PUMP	208V., 1PH.	----	----	1.5	30/2/1	F	RPB2# 6,8	2#12 & 1#12(G) 3/4"C.
ICCHP-C1	INDOOR CASSETTE HEAT PUMP	208V., 1PH.	----	----	1.5	30/2/1	F	RPB2# 10,12	2#12 & 1#12(G) 3/4"C.
OCCHP-A1	OUTDOOR CASSETTE HEAT PUMP	208V., 1PH.	----	----	11.0	30/2/3R	F	MPA# 55,57	2#10 & 1#10(G) 3/4"C.
OCCHP-B1	OUTDOOR CASSETTE HEAT PUMP	208V., 1PH.	----	----	11.0	30/2/3R	F	MPA# 59,61	2#10 & 1#10(G) 3/4"C.
OCCHP-C1	OUTDOOR CASSETTE HEAT PUMP	208V., 1PH.	----	----	11.0	30/2/3R	F	MPA# 44,46	2#10 & 1#10(G) 3/4"C.
IDHP-A1	INDOOR DUCTLESS HEAT PUMP	208V., 1PH.	----	----	1.5	30/2/1	F	RPB2# 14,16	2#12 & 1#12(G) 3/4"C.
IDHP-B1	INDOOR DUCTLESS HEAT PUMP	208V., 1PH.	----	----	1.5	30/2/1	F	RPB2# 18,20	2#12 & 1#12(G) 3/4"C.
ODHP-A1	OUTDOOR DUCTLESS HEAT PUMP	208V., 1PH.	----	----	10.0	30/2/3R	F	MPA# 48,50	2#12 & 1#12(G) 3/4"C.
ODHP-B1	OUTDOOR DUCTLESS HEAT PUMP	208V., 1PH.	----	----	11.0	30/2/3R	F	MPA# 52,54	2#10 & 1#10(G) 3/4"C.
IHP-A1	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 8,10,12	3#8 & 1#10(G) 1"C.
IHP-A2	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 14,16,18	3#8 & 1#10(G) 1"C.
IHP-A3	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 20,22,24	3#8 & 1#10(G) 1"C.
IHP-A4	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 26,28,30	3#8 & 1#10(G) 1"C.
IHP-A5	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 32,34,36	3#8 & 1#10(G) 1"C.
IHP-A6	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 38,40,42	3#8 & 1#10(G) 1"C.
IHP-A7	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 19,21,23	3#8 & 1#10(G) 1"C.
IHP-A8	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 25,27,29	3#8 & 1#10(G) 1"C.
IHP-A9	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	MPA# 31,33,35	3#8 & 1#10(G) 1"C.
IHP-B1	SPLIT INDOOR HEAT PUMP	208V., 3PH.	1/2	10.0	----	60/3/1	F	RPB2# 43,45,47	3#8 & 1#10(G) 1"C.
IHP-C1	SPLIT INDOOR HEAT PUMP	208V., 3PH.	2.0	25.0	----	100/3/1	F	RPB2# 49,51,53	3#3 & 1#8(G) 1-1/4"C.
IHP-C2	SPLIT INDOOR HEAT PUMP	208V., 3PH.	2.0	25.0	----	100/3/1	F	RPB2# 55,57,59	3#3 & 1#8(G) 1-1/4"C.
IHP-D1	SPLIT INDOOR HEAT PUMP	208V., 3PH.	3/4	12.0	----	60/3/1	F	RPB2# 61,63,65	3#8 & 1#10(G) 1"C.
OHP-A1	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 1,3,5	3#10 & 1#10(G) 1"C.
OHP-A2	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 7,9,11	3#10 & 1#10(G) 1"C.
OHP-A3	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 13,15,17	3#10 & 1#10(G) 1"C.
OHP-A4	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 19,21,23	3#10 & 1#10(G) 1"C.
OHP-A5	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 25,27,29	3#10 & 1#10(G) 1"C.
OHP-A6	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 31,33,35	3#10 & 1#10(G) 1"C.
OHP-A7	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 37,39,41	3#10 & 1#10(G) 1"C.
OHP-A8	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 2,4,6	3#10 & 1#10(G) 1"C.
OHP-A9	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	18.75	30/3/3R	F	PPA# 8,10,12	3#10 & 1#10(G) 1"C.
OHP-B1	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	25.65	30/3/3R	F	RPB2# 44,46,48	3#8 & 1#10(G) 1"C.
OHP-C1	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	49.8	60/3/3R	F	RPB2# 50,52,54	3#6 & 1#10(G) 1-1/4"C.
OHP-C2	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	49.8	60/3/3R	F	RPB2# 56,68,60	3#6 & 1#10(G) 1-1/4"C.
OHP-D1	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	25.65	30/3/3R	F	RPB2# 62,64,66	3#8 & 1#10(G) 1"C.
EWH-1	ELECTRIC WATER HEATER	208V., 1PH.	----	9.0	----	60/2/1	F	MPA# 37,39	2#6 & 1#10(G) 1-1/4"C.
RCP-1	RECIRC PUMP	120V., 1PH.	1/20	----	----	TS		RPB2# 31	2#12 & 1#12(G) 3/4"C.

NOTES:
1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.
2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
4. "NF" - NON-FUSED
5. "F" - FUSED
6. "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)
7. PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.
8. "WP" - WEATHERPROOF ENCLOSURE.
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

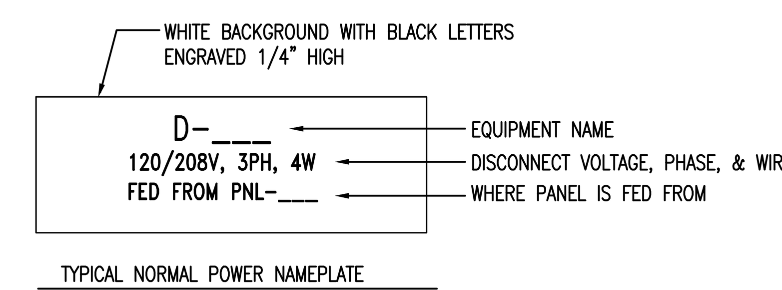
GENERAL EQUIPMENT SCHEDULE GYMNASIUM

EQUIPMENT MARK:	EQUIPMENT DESCRIPTION:	VOLTAGE/PHASE:	ELECTRICAL CHARACTERISTICS:			DISCONNECT:	FUSE:	HOMERUN:	FEEDER:
			HP	KW	AMPS				
EF-B1	EXHAUST FAN	120V., 1PH.	----	0.080	----	TS	NOTE 7	RPA1# 44	2#12 & 1#12(G) 3/4"C.
EF-D1	EXHAUST FAN	120V., 1PH.	----	0.390	----	TS	NOTE 7	RPA1# 44	2#12 & 1#12(G) 3/4"C.
EF-E1	EXHAUST FAN	120V., 1PH.	----	0.390	----	TS	NOTE 7	RPA1# 44	2#12 & 1#12(G) 3/4"C.
EF-F1	EXHAUST FAN	120V., 1PH.	----	0.080	----	TS	NOTE 7	RPA2# 24	2#12 & 1#12(G) 3/4"C.
EF-F2	EXHAUST FAN	120V., 1PH.	----	0.080	----	TS	NOTE 7	RPA2# 24	2#12 & 1#12(G) 3/4"C.
EF-G1	EXHAUST FAN	120V., 1PH.	----	0.245	----	TS	NOTE 7	RPA2# 24	2#12 & 1#12(G) 3/4"C.
EF-G2	EXHAUST FAN	120V., 1PH.	----	0.245	----	TS	NOTE 7	RPA2# 24	2#12 & 1#12(G) 3/4"C.
EF-H1	EXHAUST FAN	120V., 1PH.	----	0.270	----	TS	NOTE 7	RPA2# 26	2#12 & 1#12(G) 3/4"C.
EF-H2	EXHAUST FAN	120V., 1PH.	----	0.270	----	TS	NOTE 7	RPA2# 26	2#12 & 1#12(G) 3/4"C.
EF-J1	EXHAUST FAN	120V., 1PH.	----	0.270	----	TS	NOTE 7	RPA2# 26	2#12 & 1#12(G) 3/4"C.
EF-J2	EXHAUST FAN	120V., 1PH.	----	0.270	----	TS	NOTE 7	RPA2# 26	2#12 & 1#12(G) 3/4"C.
EF-K1	EXHAUST FAN	120V., 1PH.	----	0.245	----	TS	NOTE 7	RPA1# 46	2#12 & 1#12(G) 3/4"C.
EF-L1	EXHAUST FAN	120V., 1PH.	----	0.080	----	TS	NOTE 7	RPA2# 26	2#12 & 1#12(G) 3/4"C.
EF-M1	EXHAUST FAN	120V., 1PH.	----	0.270	----	TS	NOTE 7	RPA1# 48	2#12 & 1#12(G) 3/4"C.
IHP-E1	SPLIT INDOOR HEAT PUMP	208V., 3PH.	3.0	30.0	----	200/3/1	F	MSB# 31,33,35	3#1 & 1#6(G) 2"C.
IHP-E2	SPLIT INDOOR HEAT PUMP	208V., 3PH.	3.0	30.0	----	200/3/1	F	MSB# 37,39,41	3#1 & 1#6(G) 2"C.
IHP-F1	SPLIT INDOOR HEAT PUMP	208V., 3PH.	3.0	30.0	----	200/3/1	F	MSB# 30,32,34	3#1 & 1#6(G) 2"C.
OHP-E1	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	61.5	100/3/3R	F	MSB# 13,15,17	3#4 & 1#8(G) 1-1/4"C.
OHP-E2	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	61.5	100/3/3R	F	MSB# 19,21,23	3#4 & 1#8(G) 1-1/4"C.
OHP-F1	SPLIT OUTDOOR HEAT PUMP	208V., 3PH.	----	----	61.5	100/3/3R	F	MSB# 25,27,29	3#4 & 1#8(G) 1-1/4"C.
IDHP-B1	DUCTLESS INDOOR HEAT PUMP	208V., 1PH.	----	----	1.5	30/2/1	F	RPA1# 48,50	2#12 & 1#12(G) 3/4"C.
ODHP-B1	DUCTLESS OUTDOOR HEAT PUMP	208V., 1PH.	----	----	11.0	30/2/3R	F	RPA1# 52,54	2#10 & 1#10(G) 3/4"C.
PHP-A1	PAD MOUNTED HEAT PUMP	208V., 3PH.	----	----	257.0	300/3/3R	F	MSB# 2,4,6	3-500KCMIL & 1#3(G) 3-1/2"C.
PHP-A2	PAD MOUNTED HEAT PUMP	208V., 3PH.	----	----	257.0	300/3/3R	F	MSB# 8,10,12	3-500KCMIL & 1#3(G) 3-1/2"C.
PHP-B1	PAD MOUNTED HEAT PUMP	208V., 3PH.	----	----	130.0	200/3/3R	F	MSB# 14,16,18	3#3/0 & 1#4(G) 2-1/2"C.
EUH-A1	ELECTRIC UNIT HEATER	208V., 3PH.	----	3.3	----	30/3/1	F	RPA2# 28,30,32	3#12 & 1#12(G) 3/4"C.
EWH-2	ELECTRIC WATER HEATER	208V., 1PH.	----	9.0	----	60/2/1	F	MSB# 20,22	2#6 & 1#10(G) 1-1/4"C.
EWH-3	ELECTRIC WATER HEATER	208V., 3PH.	----	12.0	----	60/2/1	F	MSB# 24,26	2#8 & 1#10(G) 1"C.
RCP-2	RECIRC PUMP	120V., 1PH.	1/20	----	----	TS		RPA1# 56	2#12 & 1#12(G) 3/4"C.
RCP-3	RECIRC PUMP	120V., 1PH.	1/20	----	----	TS		RPA2# 34	2#12 & 1#12(G) 3/4"C.

NOTES:
1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.
2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
4. "NF" - NON-FUSED
5. "F" - FUSED
6. "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)
7. PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.
8. "WP" - WEATHERPROOF ENCLOSURE.
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

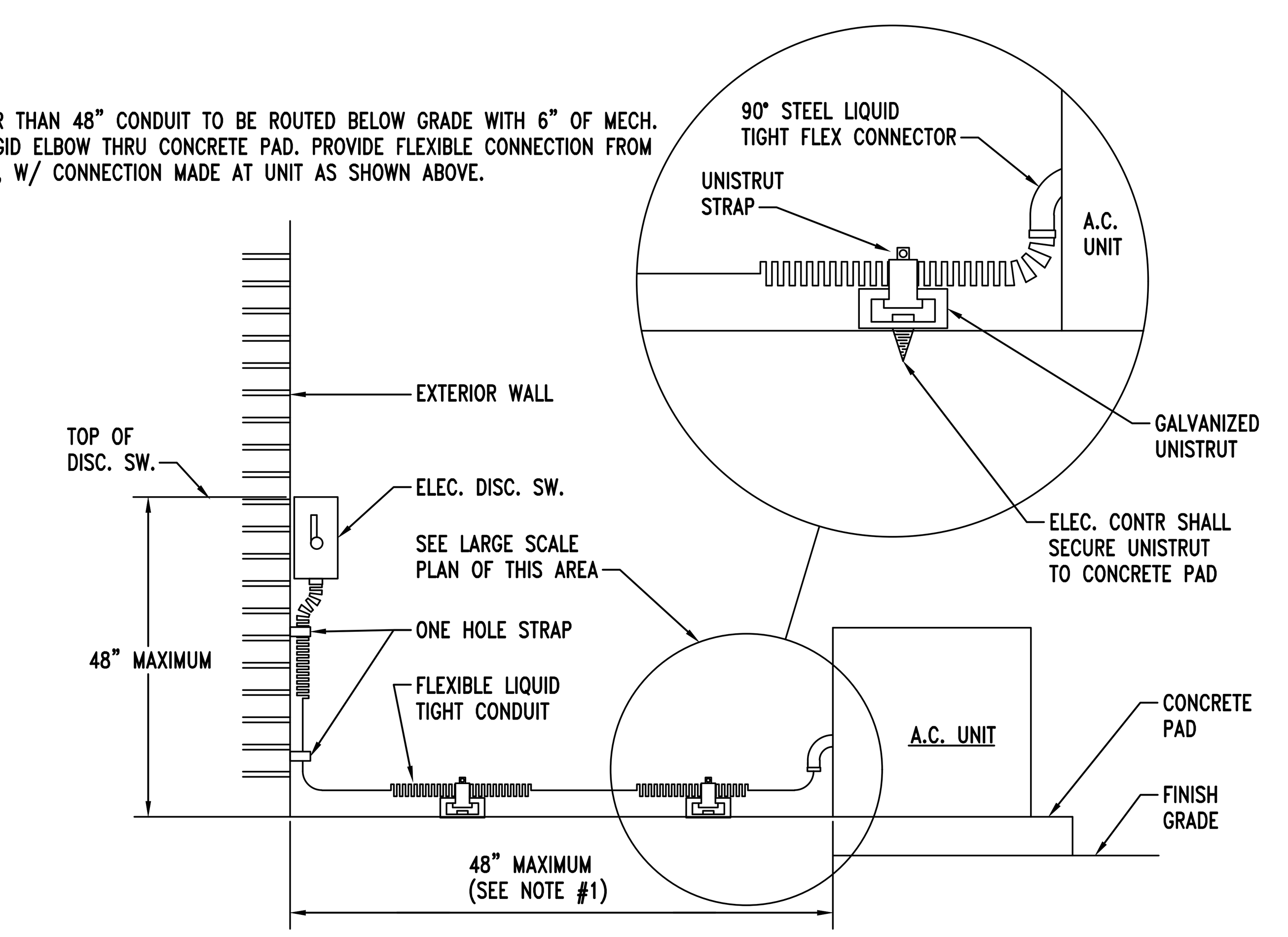
GENERAL NOTES:

1. COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
2. MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
3. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS, ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
4. ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
5. CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
8. SEE DETAIL 1 THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.



1 E3.5 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

NOTE:
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



2 E3.5 MECHANICAL UNIT CONNECTION DETIAL
NO SCALE

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14, Millbrook, AL 36054, Tel: 334.285.1273
1200 Providence Park, Suite 200, Birmingham, AL 35242
GA#23-246

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN, JR. 03-06-24

SHEET TITLE : EQUIPMENT POWER SCHEDULES AND NOTES

MCKEE JOB # : 23.229

DRAWN BY : KRG

DATE: 03.06.2024

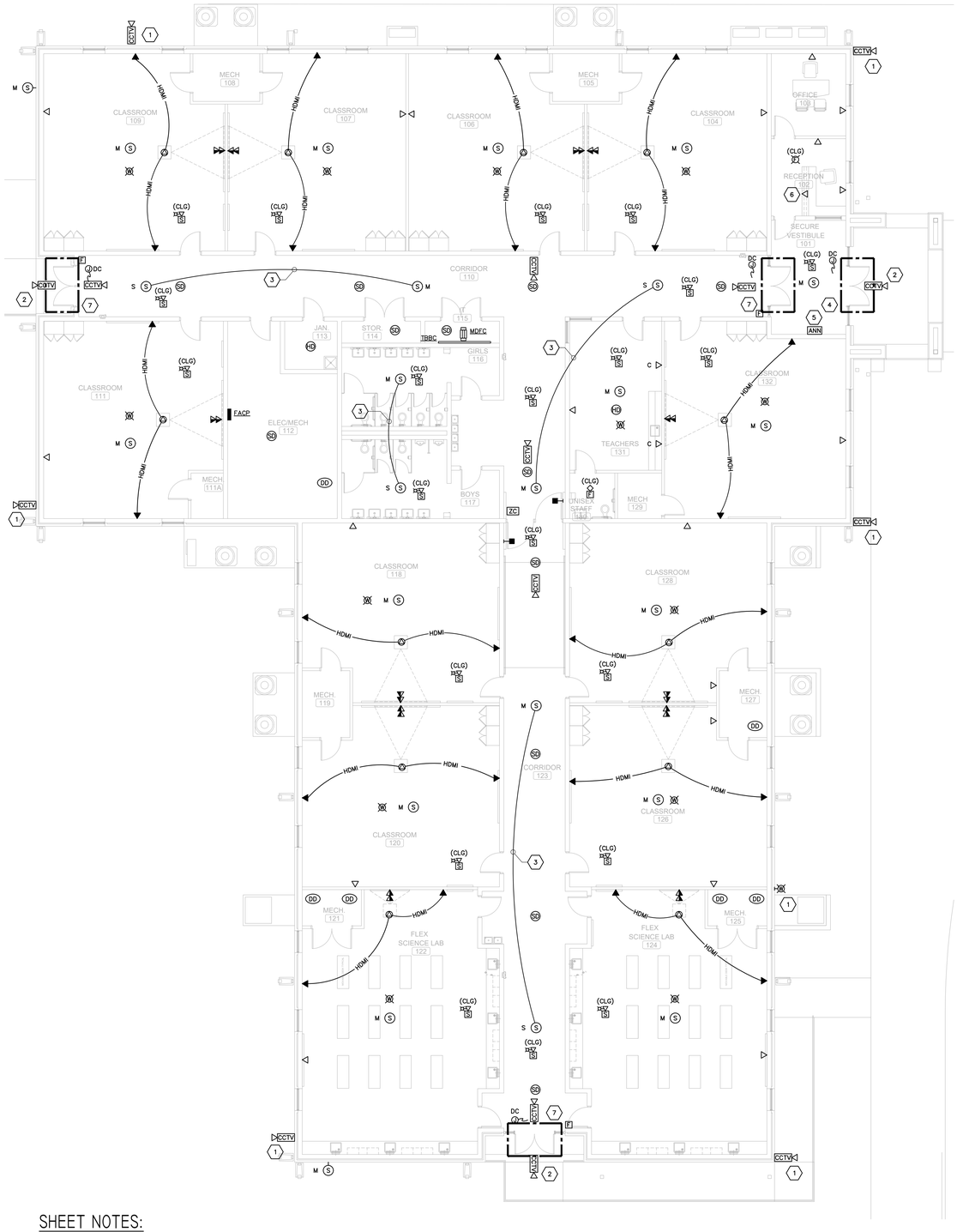
REVISED DATE:

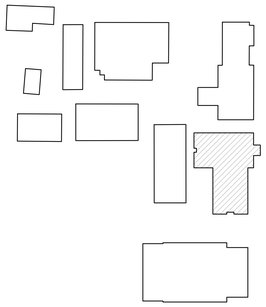
REVISED DATE:

REVISED DATE:

SHEET NO. : E3.5

- Tuesday, March 5, 2024 3:53:28 PM





KEY PLAN
SCALE: NTS

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9333

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN, JR. 03-06-24

SHEET TITLE :	FLOOR PLAN CLASSROOM - AUXILIARY
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : E4.1

SHEET NOTES:

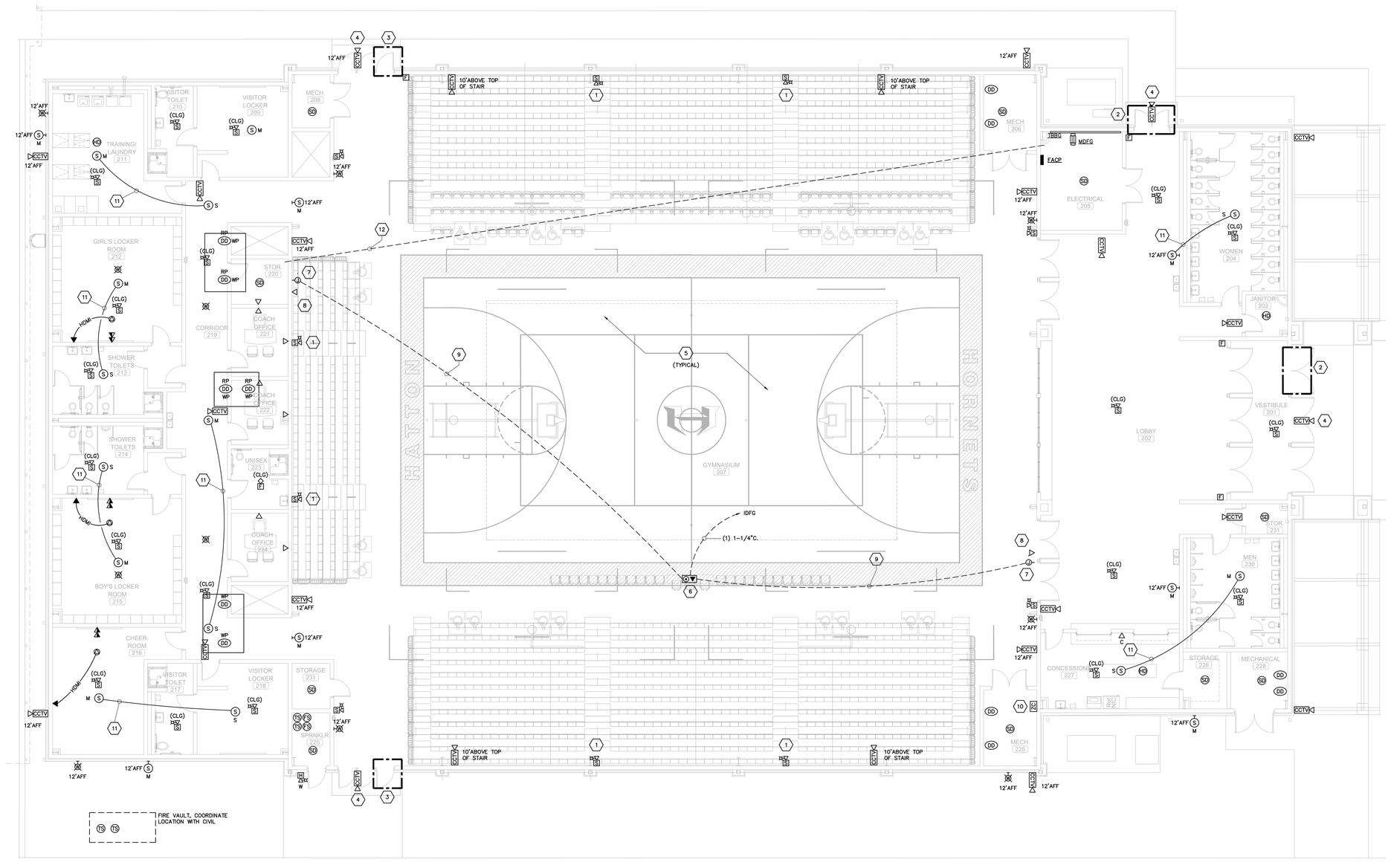
1. MOUNT 12"AFF OR 1" BELOW EAVE. WHICHEVER ONE IS LOWEST TO FINISH FLOOR.
2. MOUNT CAMERA ABOVE DOOR.
3. PROVIDE CAT 6 CABLE BETWEEN TWO SPEAKERS. SATELLITE SPEAKER CONNECTS TO MASTER SPEAKER.
4. SEE DOOR DETAIL 'A' SHEET E8.2.
5. PROVIDE FLUSH MOUNTING FOR ANNUNCIATOR.
6. MOUNT IN KNEE SPACE OF DESK.
7. SEE DOOR DETAIL 'B' SHEET E8.2.

FLOOR PLAN CLASSROOM - AUXILIARY

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

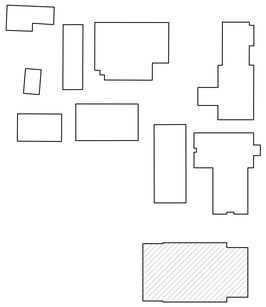
Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

- Tuesday, March 5, 2024 3:53:37 PM



FLOOR PLAN GYMNASIUM - AUXILAIRY

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



KEY PLAN

SCALE: NTS

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION

MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9333

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN JR. 03-06-24

SHEET NOTES:

1. MOUNT DEVICES 80" ABOVE TOP OF BLEACHERS AND PROVIDE WIREGUARD.
2. SEE DOOR DETAIL 'B' SHEET E8.2.
3. SEE DOOR DETAIL 'C' SHEET E8.2.
4. MOUNT CAMERA ABOVE DOOR.
5. PROVIDE WIREGUARD FOR ALL FIRE ALARM DEVICES IN GYMNASIUM.
6. PROVIDE FOUR (4) DATA DROPS TO THIS FLOOR BOX UP TO ACCESSIBLE CEILING.
7. PROVISIONS FOR SCOREBOARD. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE DATA JUNCTION BOX ADJACENT TO SCORE BOARD POWER CONNECTION. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS. PROVIDE (1) CAT6 CABLE AT BOX INDICATED.
9. PROVIDE 1-1/4" UNDERFLOOR CONDUIT WITH PULL STRING FROM RECESSED FLOOR BOX TO WALL MOUNTED JUNCTION BOX.
10. COORDINATE WITH OWNER PROVIDED SOUND SYSTEM AND PROVIDE ZONE CONTROL MODULE TO MUTE SOUND SYSTEM UPON FIRE ALARM.
11. PROVIDE CAT 6 CABLE BETWEEN TWO SPEAKERS. SATELLITE SPEAKER CONNECTS TO MASTER SPEAKER.
12. PROVIDE (2) 2"C. AND (2) 1-1/4"C. FROM ELECTRICAL ROOM TO STORAGE ROOM. STUB UP AT WALL AND CAP. PROVIDE WITH PULL STRING. DO NOT STUB UP IN ANY PANELBOARDS.

*****SHOULD I HAVE NOTE 1 AND 5 OR JUST NOTE 1 ON ALL DEVICES AROUND GYM?*****

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Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

SHEET TITLE :	FLOOR PLAN GYMNASIUM - AUXILIARY
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : E4.2

- Tuesday, March 5, 2024 3:53:44 PM

LIGHTING FIXTURE SCHEDULE

TYPE:	MANUFACTURER NUMBER AND EQUALS:	VOLTAGE:	MOUNTING:	LAMP TYPE:	LAMP QUANTITY:	DESCRIPTION:
L1	COOPER NO. HBLED-LD5-36HE-W-A/WG-UNV-L840 OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	PENDANT	L.E.D.	1 34000 LUMEN 211 WATTS	PENDANT MOUNTED L.E.D. HIGH BAY LUMINAIRE, PRISMATIC LENS, WIRE GUARD PROVIDE MOUNTING ACCESSORY AS REQUIRED.
L4	COOPER NO. 45SNLED-50SL-LW-UNV-L840-CD-1 OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	RECESSED	L.E.D.	1 5300 LUMEN 48 WATTS	SURFACE MOUNTED L.E.D. STRIP LUMINAIRE, 4'-0"L., WHITE BODY WITH FROSTED LENS.
LG48	COOPER NO. 24FP4740C OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	RECESSED	L.E.D.	1 4700 LUMEN 41 WATTS	RECESSED MOUNTED L.E.D. FLAT PANEL, 2'x4' LAY-IN, WHITE FINISH.
LG72	COOPER NO. 24FP7240C OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	RECESSED	L.E.D.	1 7200 LUMEN 61 WATTS	RECESSED MOUNTED L.E.D. FLAT PANEL, 2'x4' LAY-IN, WHITE FINISH.
LR1	COOPER NO. HC6-30-D010-HM6-3040-840-61-WD-C-WF OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	RECESSED	L.E.D.	1 3000 LUMEN 29 WATTS	RECESSED MOUNTED L.E.D. DOWNLIGHT, 6" APERTURE (NOMINAL), CLEAR ALZAK REFLECTOR, WHITE TRIM RING, U.L. LISTED FOR WET LOCATIONS.
PL2	COOPER NO. GLEON-SA3D-840-U-T2 OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	POLE	L.E.D.	1 23000 LUMENS 191 WATTS	SINGLE HEAD POLE MOUNTED L.E.D. LUMINAIRE, TYPE 2 DISTRIBUTION, MOUNTED ON 30'-0" ROUND STELL POLE AND BASE AS SHOWN ON DRAWINGS. POLE SHALL MEET IBC WIND LOADS FOR THIS REGION.
PL5	COOPER NO. GLEON-SA3D-840-U-5WQ OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	POLE	L.E.D.	1 23000 LUMENS 191 WATTS	SINGLE HEAD POLE MOUNTED L.E.D. LUMINAIRE, TYPE 5W DISTRIBUTION, MOUNTED ON 30'-0" ROUND STELL POLE AND BASE AS SHOWN ON DRAWINGS. POLE SHALL MEET IBC WIND LOADS FOR THIS REGION.
PD4	LUMENWERX NO. VIA4PDI-HLO-FH-WIO2-SW-80-1000-350-40-4-UNV-D1-1C-W OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	PENDANT	L.E.D.	1 4000/1400 LUMEN 44 WATTS	PENDANT MOUNTED L.E.D. LINEAR LUMINAIRE, 4'-0"L., DIRECT/INDIRECT, FLUSH FROSTED LENS.
PD8	LUMENWERX NO. VIA4PDI-HLO-FH-WIO2-SW-80-1000-350-40-8-UNV-D1-1C-W OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	PENDANT	L.E.D.	1 8000/2800 LUMEN 88 WATTS	PENDANT MOUNTED L.E.D. LINEAR LUMINAIRE, 8'-0"L., DIRECT/INDIRECT, FLUSH FROSTED LENS.
SL	PORTFOLIO NO. 4LBVWL-20-40K-E2-4VBVWL OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	RECESSED	L.E.D.	1 2000 LUMEN 21 WATTS	RECESSED MOUNTED L.E.D. SHOWER LUMINAIRE, 4" APERTURE, NON-CONDUCTIVE TRIM AND LENS, U.L. LISTED FOR WET LOCATIONS.
WP1	COOPER NO. IST-SA1D-840-U-T4FT-XX OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	WALL	L.E.D.	1 5600 LUMEN 45 WATTS	WALL MOUNTED L.E.D. LUMINAIRE WITH CUT OFF, FINISH AS SELECTED BY ARCHITECT,
WP2	SPI LIGHTING NO. AIW8271-L22W-4000K-XX-XX-VAN OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	WALL	L.E.D.	1 1501 LUMEN 22 WATTS	WALL MOUNTED L.E.D. LUMINAIRE . FINISH AS SELECTED BY ARCHITECT. MATCH EXISTING SCONCE FIXTURE ON EXISTING BUIILDINGS.
XA	EXITRONIX NO. VEX-U-BP-WB-WH-G2 OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	CEILING	L.E.D.	1 3 WATT	CEILING MOUNTED SINGLE FACE EXIT SIGN, PLASTIC BODY WITH RED LETTERS, PROVIDE WITH SELF-CONTAINED EMERGENCY BATTERY AND DIAGNOSTICS, ARROWS AS SHOWN ON DRAWINGS.
XB	EXITRONIX NO. VEX-U-BP-WB-WH-G2 OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	CEILING	L.E.D.	1 3 WATTS	CEILING MOUNTED DOUBLE FACE EXIT SIGN, PLASTIC BODY WITH RED LETTERS, PROVIDE WITH SELF-CONTAINED EMERGENCY BATTERY AND DIAGNOSTICS, ARROWS AS SHOWN ON DRAWINGS.
XW	EXITRONIX NO. VEX-U-BP-WB-WH-G2 OR EQUAL BY HUBBELL OR PHILIPS	MVOLT	WALL	L.E.D.	1 3 WATTS	WALL MOUNTED SINGLE FACE EXIT SIGN, PLASTIC BODY WITH RED LETTERS, PROVIDE WITH SELF-CONTAINED EMERGENCY BATTERY AND DIAGNOSTICS, ARROWS AS SHOWN ON DRAWINGS. PROVIDE WITH WIREGUARD.
XW1	COOPER NO. APC-7-R-SQ OR EQUAL TO EXITRONIX, HUBBELL OR PHILIPS	MVOLT	WALL	L.E.D.	1 10 WATTS	WALL MOUNTED SINGLE FACE EXIT SIGN AND EMERGENCY LIGHTING COMBO UNIT, WHITE BODY WITH RED LETTERS, PROVIDE WITH SELF-CONTAINED BATTERY AND TWO LIGHTING HEADS. PROVIDE WITH WIREGUARD IN GYMNASIUM.
XJ	LITHONIA NO. ELM6L-UVOLT-LPT-SDRT-WIREGUARDS IN GYM OR EQUAL BY HUBBELL OR LIFE SAFETY LIGHTING	MVOLT	WALL	L.E.D.	1 10 WATTS	WALL MOUNTED EMERGENCY LIGHTING UNIT, PROVIDE WITH SELF CONTAINED EMERGENCY BATTERY, COLOR AS SELECTED BY ARCHITECT. 1000 LUMEN HEAD.

NOTES:

1. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW. BID ACCORDINGLY.
2. COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION
3. PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90-MINUTES.
4. FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES LOCATED IN THE STATE OF ALABAMA. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIABLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT.
5. ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERTURE LAMPS, UNLESS NOTED OTHERWISE.
6. PROVIDE ALL 0-10V DIMMING BRANCH CIRCUITING REQUIRED.

LIGHTING CONTROL PANEL - (LCPA)

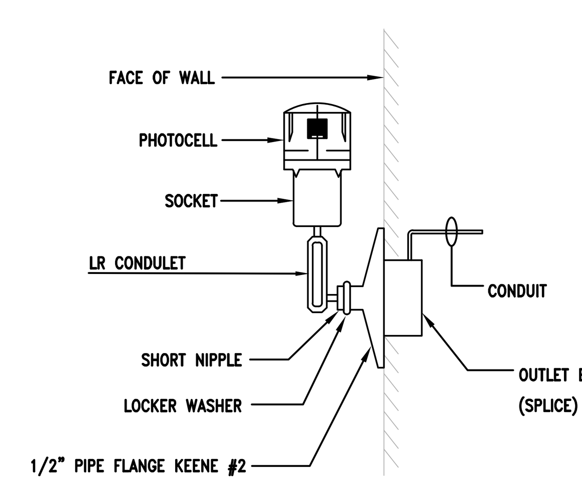
RELAY #	PANEL	CIRCUIT #	CIRCUIT VOLTAGE	FUNCTION	TYPE	NOTES
a	RPA1	1	120	ON/OFF	LED	SEE NOTE 2 & 3
b	RPA1	7	120	ON/OFF	LED	SEE NOTE 6
c	RPA1	9	120	ON/OFF	LED	SEE NOTE 6
d	RPA1	11	120	ON/OFF	LED	SEE NOTE 6
e	RPA1	13	120	ON/OFF	LED	SEE NOTE 6
f	RPA1	15	120	ON/OFF	LED	SEE NOTE 6
g	RPA1	17	120	ON/OFF	LED	SEE NOTE 6
h	RPA2	45,47	208	ON/OFF	LED	SEE NOTE 2 & 3
i			120			SPARE
j			120			SPARE
k			120			SPARE
l			120			SPARE

NOTES:

1. "NL" PHOTOCELL ON - PHOTOCELL OFF
   "OL" PHOTOCELL ON - ASTRONOMICAL CLOCK TURNS LIGHTS OFF AT 12 MIDNIGHT
2. "NL" PHOTOCELL ON - PHOTOCELL OFF
   "OL" PHOTOCELL ON - ASTRONOMICAL CLOCK
3. EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF SWITCHING WITH A CONSTANT HOT LEG.
4. PROVIDE LIGHTING CONTROL PANEL EQUAL TO HUBBELL CX PANEL. PROVIDE ON SITE PROGRAMMING AS NEEDED.
5. "NL" PHOTOCELL ON - PHOTOCELL OFF
   "OL" PHOTOCELL ON - ASTRONOMICAL CLOCK REDUCES LIGHT BY 50% AT MIDNIGHT(ALTERNATE OFF FOR DRIVERS EVERY OTHER DAY)
6. SET TIME ON/OFF WITH LOCAL OVER RIDE

NOTES

1. PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.

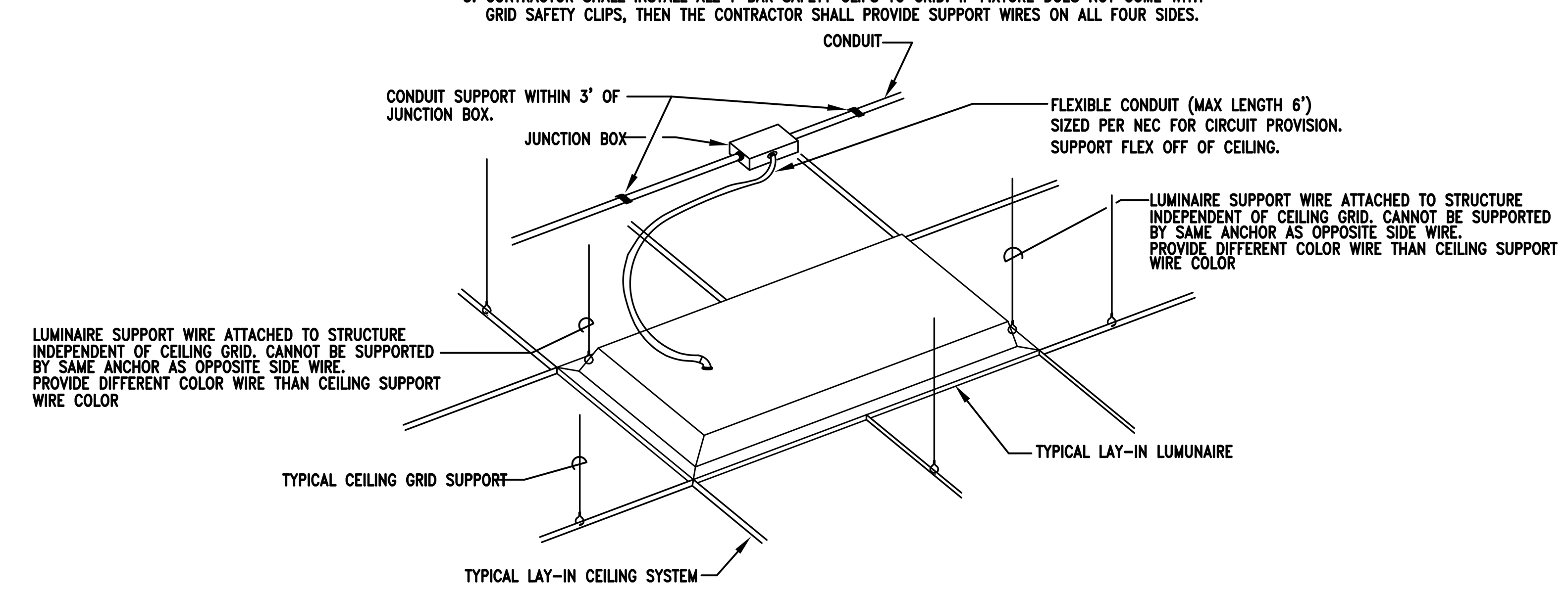


1 / E5.1 — DETAIL - INSTALLATION OF PHOTO-CELL

NO SCALE

NOTES:

1. ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
2. LUMINAIRE SUPPORT WIRES TO BE A MINUMUM OF #14 GAGE PRE-STRAINED GALVINIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
3. CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
4. JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
5. CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.



2 / E5.1 — DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION

NO SCALE

LUMINAIRE NOTES:

1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
3. ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION.
4. ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIABLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
6. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
7. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
8. ALL FLUORESCENT LUMINARIES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
9. PROVIDE ALL DUAL SWITCHED LUMINAIRES WITH DUAL BALLAST.
10. LUMINAIRES WITH TWO SUB-SCRIPTS AN "a" AND "b" SHALL HAVE OUTSIDE TWO LAMPS CONTROLLED BY SWITCH OR RELAY POLE "a" AND INSIDE LAMP OR LAMPS CONTROLLED BY SWITCH OR RELAY POLE "b". SIMILARLY FOR OTHER SETS OF SUB-SCRIPTS SUCH AS "c, d, e, f, ETC."
11. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
12. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
13. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
14. CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
15. ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION.

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY , ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN JR. 03-06-24

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14, Millbrook, AL 36054, Tel: 334.285.1273
1200 Providence Park, Suite 200, Birmingham, AL 35242
GA#23-246

SHEET TITLE : LUMINAIRE SCHEDULE AND DETAILS

MCKEE JOB # : 23.229

DRAWN BY : KRG

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E5.1

- Tuesday, March 5, 2024 3:53:56 PM

PANELBOARD MSB

TYPE: 1600 AMP SHUNT TRIP MCB | AIC: 42,000 AMPERES | MOUNTED: FREESTANDING | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
RPA1	29,986			400		1	2	350		24,672			PHP-A1
		27,150				3	4				24,672		
			29,472		3	5	6		3			24,672	
RPA2	12,271			200		7	8	350		24,672			PHP-A2
		14,852				9	10				24,672		
			15,879		3	11	12		3			24,672	
OHP-E1	5,904			70		13	14	200		12480			PHP-B1
		5,904				15	16				12480		
			5,904		3	17	18		3			12480	
OHP-E2	5,904			70		19	20	60		4500			EWH-2
		5,904				21	22		2		4500		
			5,904		3	23	24	50				4000	EWH-3
OHP-F1	5,904			70		25	26			4000			
		5,904				27	28		3		4000		
			5,904		3	29	30	125				11272	IHP-F1
IHP-E1	11,272			125		31	32			11272			
		11272				33	34		3		11272		
			11,272		3	35	36	225					SPARE
IHP-E2	11,272			125		37	38						
		11,272				39	40		3				
			11,272		3	41	42	100					SPARE
SPARE				400		43	44						
						45	46		3				
					3	47	48	400					BUSSED SPACE
BUSSED SPACE				100		49	50						
						51	52		3				
					3	53	54	225					BUSSED SPACE
BUSSED SPACE				100		55	56						
						57	58		3				
					3	59	60	50	1				BUSSED SPACE
	82,513	82,258	85,607							81,596	81,596	77,096	

TOTAL LOAD PHASE A: 164,109 (VA)
TOTAL LOAD PHASE B: 163,854 (VA)
TOTAL LOAD PHASE C: 162,703 (VA)
TOTAL LOAD: 490,666 (VA) = 1363 AMPS

NOTES:
1. PANELBOARD SHALL BE UL LISTED FOR SERVICE ENTRANCE.
2. PROVIDE WITH INTEGRAL TVSS WITH 160,000 AMPS PER MODE PROTECTION.
3. PROVIDE PANELBOARD WITH INTEGRAL GROUND FAULT MONITORING.
4. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING. SEE DETAILS.
5. PROVIDE AUC FAULT LABLE PER DETAILS.

PANEL - RPA1

TYPE: 400 AMP MAIN LUGS | AIC: 42,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

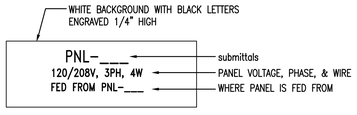
CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
LIGHTS VIA LCPA 'a'	851			20	1	1	2	20	1	400			RECEPT
LIGHTS		783		20	1	3	4	20	1		200		RECEPT
LIGHTS			574	20	1	5	6	20	1			400	RECEPT
LIGHTS VIA LCPA 'b'	1,762			20	1	7	8	20	1	1,000			REFRIGERAOR
LIGHTS VIA LCPA 'c'		1,729		20	1	9	10	20	1		500		GOAL CONROL
LIGHTS VIA LCPA 'd'			1,736	20	1	11	12	20	1			600	SCOREBOARD
LIGHTS VIA LCPA 'e'	1,726			20	1	13	14	30	1	2,000			BASKET HOIST
LIGHTS VIA LCPA 'f'		1,729		20	1	15	16	30	1		2,000		BASKET HOIST
LIGHTS VIA LCPA 'g'			1,762	20	1	17	18	30	1			2,000	BASKET HOIST
LIGHTS	1,681			20	1	19	20	30	1	2,000			BASKET HOIST
SPARE				20	1	21	22	30	1		2,000		BASKET HOIST
RECEPT			800	20	1	23	24	30	1			2,000	BASKET HOIST
EWC	750			20	1	25	26	30		2,400			BLEACHERS
RECEPT		400		20	1	27	28				2,400		
HD			800	20	1	29	30		3			2,400	
RECEPT	800			20	1	31	32	30		2,400			BLEACHERS
EWC		750		20	1	33	34				2,400		
RECEPT			800	20	1	35	36		3			2,400	
RECEPT	600			20	1	37	38	30		2,400			BLEACHERS
RECEPT		400		20	1	39	40				2,400		
RECEPT			400	20	1	41	42		3			2,400	
SCOREBOARD	600			20	1	43	44	20	1	860			EF-B1, D1, E1
BLEACHERS		2,400		30		45	46	20	1		515		EF-K1, M1
			2,400			47	48	20				156	IDHP-B1
	2,400				3	49	50		2	156			
BLEACHERS		2,400		30		51	52	30			1,144		ODHP-B1
			2,400			53	54		2			1,144	
	2,400				3	55	56	20	1	500			RCP-2
SCOREBOARD		600		20	1	57	58	20	1		800		HD
IT			2,000	30	1	59	60	20	1			1,200	SIGNAGE
IT	1,000			20	1	61	62	20	1	500			FACP
IT		1,000		20	1	63	64	20	1				SPARE
LCPA			500	20	1	65	66	20	1				SPARE
HD	800			20	1	67	68	20	1				SPARE
RECEPT		600		20	1	69	70	50	1				BUSSED SPACE
RECEPT			600	20	1	71	72	50	1				BUSSED SPACE
SPARE				30		73	74	50	1				BUSSED SPACE
						75	76	50	1				BUSSED SPACE
					3	77	78	50	1				BUSSED SPACE
SPARE				30		79	80	50	1				BUSSED SPACE
						81	82	50	1				BUSSED SPACE
					3	83	84	50	1				BUSSED SPACE
SUB TOTAL (VA)	15,370	12,791	14,772							14,616	14,359	14,700	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 29,986 (VA)
TOTAL LOAD PHASE B: 27,150 (VA)
TOTAL LOAD PHASE C: 29,472 (VA)
TOTAL LOAD: 86,608 (VA) = 241 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

PANELBOARD NOTES:

1. PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
4. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
5. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
6. PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
7. ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
8. PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
9. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
10. ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
11. COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
12. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.
13. MANUFACTURER THAT WILL BE PROVIDING PANELBOARDS ON THIS PROJECT SHALL BE RESPONSIBLE FOR PERFORMING A SHORT CIRCUIT ANALYSIS AND TIME-CURRENT COORDINATION (TCC) STUDY, WHICH DEMONSTRATES THAT THE UPSTREAM OVERCURRENT PROTECTIVE DEVICE NEAREST TO THE FAULT LOCATION WILL OPERATE BEFORE OVERCURRENT PROTECTIVE DEVICES WHICH ARE FURTHER UPSTREAM (I.E. SELECTIVE COORDINATION). INCLUDE COORDINATION STUDY IN THE SHOP DRAWING PACKAGE FOR THE PANELBOARDS FOR REVIEW BY THE ENGINEER OF RECORD. AIC RATINGS MAY BE LOWERED BASED ON STUDY.
14. ALL CIRCUIT BREAKERS 1200 AMPS AND UP SHALL COMPLY WITH NEC ARTICLE 240.87 ARC ENERGY REDUCTION.



TYPICAL NORMAL POWER NAMEPLATE

1 / E5.2 DETAIL - TYPICAL PANELBOARD NAMEPLATE
NO SCALE

NOTES:
1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL SHALL BE:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	4"	6"
OUTDOOR	4"	6"

2 / E5.2 ARC FLASH WARNING LABELS
NO SCALE

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26998 KENNETH RAY GUNN JR. 03-06-24

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

SHEET TITLE : PANELBOARD SCHEDULE AND DETAILS

MCKEE JOB # : 23.229

DRAWN BY : KRG

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E5.2

- Tuesday, March 5, 2024 3:54:06 PM

PANEL - RPA2

TYPE: 200 AMP MAIN LUGS | AIC: 42,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
LIGHTS	1,211			20	1	1	2	20	1	800			RECEPT
LIGHTS		1,252		20	1	3	4	20	1		600		RECEPT
LIGHTS			879	20	1	5	6	20	1			800	HD
SPARE				20	1	7	8	20	1	200			RECEPT
SPARE				20	1	9	10	20	1		800		RECEPT
RECEPT			800	20	1	11	12	20	1			1,200	RECEPT
HD	800			20	1	13	14	20	1	200			RECEPT
RECEPT		600		20	1	15	16	20	1		1,200		RECEPT
RECEPT			800	20	1	17	18	20	1			1,200	RECEPT
DRYER	2,000			30		19	20	20	1	400			RECEPT
		2,000			2	21	22	20	1		800		RECEPT
DRYER			2,000	30		23	24	20	1			650	EF-F1, F2, G1, G2
	2,000				2	25	26	20	1	1,160			EF-H1, H2, J1, J2, L1
WASHER		1,000		20	1	27	28	20			1,100		EUH-A1
WASHER			1,000	20	1	29	30					1,100	
RECEPT	800			20	1	31	32		3	1,100			
HD		800		20	1	33	34	20	1		500		RCP-3
HD			800	20	1	35	36	20	1				SPARE
RECEPT	800			20	1	37	38	20	1				SPARE
EWC		750		20	1	39	40	20	1				SPARE
RECEPT			800	20	1	41	42	20	1				SPARE
SPARE				20	1	43	44	20					SPARE
LIGHTS VIA LCPA "h"		1,050		20		45	46						
			1,050		2	47	48		3				
RECEPT	400			20	1	49	50	20					SPARE
RECEPT		2,000		50		51	52						
			2,000		2	53	54		3				
SPARE				30		55	56	50	1				BUSSED SPACE
					2	57	58	50	1				BUSSED SPACE
HD			800	20	1	59	60	50	1				BUSSED SPACE
RECEPT	400			20	1	61	62	50	1				BUSSED SPACE
RECEPT		400		20	1	63	64	50	1				BUSSED SPACE
BUSSED SPACE				50	1	65	66	50	1				BUSSED SPACE
BUSSED SPACE				50	1	67	68	50	1				BUSSED SPACE
BUSSED SPACE				50	1	69	70	50	1				BUSSED SPACE
BUSSED SPACE				50	1	71	72	50	1				BUSSED SPACE
BUSSED SPACE				50	1	73	74	50	1				BUSSED SPACE
BUSSED SPACE				50	1	75	76	50	1				BUSSED SPACE
BUSSED SPACE				50	1	77	78	50	1				BUSSED SPACE
BUSSED SPACE				50	1	79	80	50	1				BUSSED SPACE
BUSSED SPACE				50	1	81	82	50	1				BUSSED SPACE
BUSSED SPACE				50	1	83	84	50	1				BUSSED SPACE
SUB TOTAL (VA)	8,411	9,852	10,929							3,860	5,000	4,950	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 12,271 (VA)
TOTAL LOAD PHASE B: 14,852 (VA)
TOTAL LOAD PHASE C: 15,879 (VA)
TOTAL LOAD: 43,002 (VA) = 119 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

PANEL - RPB1

TYPE: 250 AMP MAIN LUGS | AIC: 42,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
EXTERIOR LIGHTS	700			20	1	1	2	20	1	1,000			RECEPT
LIGHTS		1,139		20	1	3	4	20	1		1,800		RECEPT
LIGHTS			1,139	20	1	5	6	20	1			1,400	RECEPT
LIGHTS	1,241			20	1	7	8	20	1	1,000			RECEPT
LIGHTS		1,139		20	1	9	10	20	1		800		HD
LIGHTS			779	20	1	11	12	20	1			750	EWC
LIGHTS	779			20	1	13	14	20	1	750			EWC
LIGHTS		1,139		20	1	15	16	20	1		750		EWC
LIGHTS			1,343	20	1	17	18	20	1			800	HD
LIGHTS	1,040			20	1	19	20	20	1	800			HD
SPARE				20	1	21	22	20	1		600		RECEPT
SPARE				20	1	23	24	30	1			1,000	RECEPT
RECEPT	1,800			20	1	25	26	30	1	2,000			IT
RECEPT		1,400		20	1	27	28	20	1		1,000		IT
RECEPT			1,800	20	1	29	30	20	1			1,000	IT
RECEPT	1,200			20	1	31	32	20	1	1,800			RECEPT
RECEPT		1,800		20	1	33	34	20	1		1,400		RECEPT
RECEPT			1,400	20	1	35	36	20	1			1,800	RECEPT
RECEPT	1,800			20	1	37	38	20	1	1,400			RECEPT
RECEPT		1,200		20	1	39	40	20	1		1,800		RECEPT
RECEPT			1,200	20	1	41	42	20	1			1,200	RECEPT
EQUIP SHUT OFF	200			20	1	43	44	20	1	400			RECEPT
RECEPT		200		20	1	45	46	20	1		200		RECEPT
RECEPT			1,400	20	1	47	48	20	1			750	EWC
RECEPT	600			20	1	49	50	20	1	1,200			SIGNAGE
RECEPT		400		20	1	51	52	20	1		400		RECEPT
RECEPT			400	20	1	53	54	20	1			200	RECEPT
RECEPT	800			20	1	55	56	20	1				SPARE
RECEPT		800		20	1	57	58	20	1				SPARE
RECEPT			400	20	1	59	60	20	1				SPARE
RECEPT	400			20	1	61	62	20	1				SPARE
RECEPT		400		20	1	63	64	20	1				SPARE
RECEPT			400	20	1	65	66	20	1				SPARE
RECEPT	400			20	1	67	68	20	1				SPARE
RECEPT		400		20	1	69	70	50	1				BUSSED SPACE
EQUIP SHUT OFF			200	20	1	71	72	50	1				BUSSED SPACE
RECEPT	200			20	1	73	74	50	1				BUSSED SPACE
RECEPT		1,400		20	1	75	76	50	1				BUSSED SPACE
RECEPT			400	20	1	77	78	50	1				BUSSED SPACE
RECEPT	400			20	1	79	80	50	1				BUSSED SPACE
RECEPT		400		20	1	81	82	50	1				BUSSED SPACE
RECEPT			800	20	1	83	84	50	1				BUSSED SPACE
SUB TOTAL (VA)	11,560	11,817	11,661							10,350	8,750	8,900	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 21,910 (VA)
TOTAL LOAD PHASE B: 20,567 (VA)
TOTAL LOAD PHASE C: 20,561 (VA)
TOTAL LOAD: 63,038 (VA) = 175 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

PANELBOARD MPA

TYPE: 1200 AMP SHUNT TRIP MCB | AIC: 42,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
RPB1	21,910			250		1	2	225					SPARE
		20,567				3	4						
			20,561		3	5	6		3				
RPB2	50,135			600		7	8	50		3621			IHP-A1
		50,469				9	10				3621		
			49,369		3	11	12		3			3621	
PPA	20,250			250		13	14	50		3621			IHP-A2
		20,250				15	16				3621		
			20,250		3	17	18		3			3621	
IHP-A7	3621			50		19	20	50		3621			IHP-A3
		3621				21	22				3621		
			3621		3	23	24		3			3621	
IHP-A8	3621			50		25	26	50		3621			IHP-A4
		3621				27	28				3621		
			3621		3	29	30		3			3621	
IHP-A9	3621			50		31	32	50		3621			IHP-A5
		3621				33	34				3621		
			3621		3	35	36		3			3621	
EWH-1	4500			60		37	38	50		3621			IHP-A6
		4500				39	40				3621		
SPARE				20	1	41	42		3			3621	
EF-C1	288			20		43	44	20		156			OCCHP-C1
		288				45	46		2		156		
			288		3	47	48	20				1040	ODHP-A1
EF-C2	288			20		49	50		2	1040			
		288				51	52	30			1144		ODHP-B1
			288		3	53	54		2			1144	
OCCHP-A1	156			20		55	56	30					SPARE
		156			2	57	58		2				
OCCHP-B1			156	20		59	60	30					SPARE
	156				2	61	62		2				
SPARE				50		63	64	20					SPARE
						65	66		2				
					3	67	68	20					SPARE
SPARE				20		69	70						
					2	71	72		3				
BUSSED SPACE				225		73	74	225					BUSSED SPACE
						75	76						
					3	77	78		3				
BUSSED SPACE				225		79	80	225					BUSSED SPACE
						81	82						
					3	83	84		3				
	108,546	107,381	101,775							22,922	23,026	23,910	

TOTAL LOAD PHASE A: 131,468 (VA)
TOTAL LOAD PHASE B: 130,407 (VA)
TOTAL LOAD PHASE C: 125,685 (VA)
TOTAL LOAD: 387,560 (VA) = 1077 AMPS

NOTES:
1. PANELBOARD SHALL BE UL LISTED FOR SERVICE ENTRANCE.
2. PROVIDE WITH INTEGRAL TVSS WITH 160,000 AMPS PER MODE PROTECTION.
3. PROVIDE PANELBOARD WITH INTEGRAL GROUND FAULT MONITORING.
4. MAIN BREAKER SHALL BE 100% (FULLY) RATED.
5. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING. SEE DETAILS.
6. PROVIDE ARC FAULT LABEL PER DETAIL DETAILS.
7. PROVIDE IN NEMA 3R ENCLOSURE.

PANEL - RPB2

TYPE: 600 AMP MAIN LUGS | AIC: 42,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE PHASE A	PHASE B	PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE PHASE A	PHASE B	PHASE C	CIRCUIT DIRECTORY
RECEPT	800			20	1	1	2	20		156			ICCHP-A1
RECEPT		400		20	1	3	4		2		156		
RECEPT			400	20	1	5	6	20				156	ICCHP-B1
RECEPT	400			20	1	7	8		2	156			
RECEPT		400		20	1	9	10	20			156		ICCHP-C1
RECEPT			400	20	1	11	12		2			156	
RECEPT	400			20	1	13	14	20		156			IDHP-A1
RECEPT		1,800		20	1	15	16		2		156		
RECEPT			1,400	20	1	17	18	20				156	IDHP-B1
RECEPT	1,800			20	1	19	20		2	156			
RECEPT		1,200		20	1	21	22	20					SPARE
RECEPT			1,000	20	1	23	24		2				
RECEPT	600			20	1	25	26	20					SPARE
RECEPT		600		20	1	27	28		2				
RECEPT			600	20	1	29	30	20					SPARE
RCP-1	500			20	1	31	32		2				
EF-A1, A2		490		20	1	33	34	20	1				SPARE
EF-B1, B2			490	20	1	35	36	20	1				SPARE
RECEPT	400			20	1	37	38	20	1				SPARE
FACP		500		20	1	39	40	20	1				SPARE
SPARE				20	1	41	42	20	1				SPARE
IHP-B1	3,621			50		43	44	40		3,076			OHP-B1
		3,621				45	46				3,076		
			3,621		3	47	48		3			3,076	
IHP-C1	9,233			100		49	50	60		5,976			OHP-C1
		9,233				51	52				5,976		
			9,233		3	53	54		3			5,976	
IHP-C2	9,233			100		55	56	60		5,976			OHP-C2
		9,233				57	58				5,976		
			9,233		3	59	60		3			5,976	
IHP-D1	4,420			50		61	62	40		3,076			OHP-D1
		4,420				63	64				3,076		
			4,420		3	65	66		3			3,076	
SPARE				100		67	68	50	1				BUSSED SPACE
						69	70	50	1				BUSSED SPACE
					3	71	72	50	1				BUSSED SPACE
SPARE				60		73	74	50	1				BUSSED SPACE
						75	76	50	1				BUSSED SPACE
					3	77	78	50	1				BUSSED SPACE
SPARE				50		79	80	50	1				BUSSED SPACE
						81	82	50	1				BUSSED SPACE
					3	83	84	50	1				BUSSED SPACE
SUB TOTAL (VA)	31,407	31,897	30,797							18,728	18,572	18,572	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 50,135 (VA)
TOTAL LOAD PHASE B: 50,469 (VA)
TOTAL LOAD PHASE C: 49,369 (VA)
TOTAL LOAD: 149,973 (VA) = 417 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26998 KENNETH RAY GUNN 03-06-24

SHEET TITLE : PANELBOARD SCHEDULE

MCKEE JOB # : 23.229

DRAWN BY : KRG

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

SHEET NO. : E5.3

- Tuesday, March 5, 2024 3:54:18 PM

PANEL - PPA

TYPE: 250 AMP MAIN LUGS | AIC: 42,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C							PHASE A	PHASE B	PHASE C	
OHP-A1	2,250			30		1	2	30		2,250			OHP-A8
		2,250				3	4				2,250		
			2,250		3	5	6		3			2,250	
OHP-A2	2,250			30		7	8	30		2,250			OHP-A9
		2,250				9	10				2,250		
			2,250		3	11	12		3			2,250	
OHP-A3	2,250			30		13	14	30					SPARE
		2,250				15	16						
			2,250		3	17	18		3				
OHP-A4	2,250			30		19	20	30					SPARE
		2,250				21	22						
			2,250		3	23	24		3				
OHP-A5	2,250			30		25	26	100					BUSSED SPACE
		2,250				27	28						
			2,250		3	29	30		3				
OHP-A6	2,250			30		31	32	100					BUSSED SPACE
		2,250				33	34						
			2,250		3	35	36		3				
OHP-A7	2,250			30		37	38	100					BUSSED SPACE
		2,250				39	40						
			2,250		3	41	42		3				
SUB TOTAL (VA)	15,750	15,750	15,750							4,500	4,500	4,500	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 20,250 (VA)
TOTAL LOAD PHASE B: 20,250 (VA)
TOTAL LOAD PHASE C: 20,250 (VA)
TOTAL LOAD: 60,750 (VA) = 169 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

ADDITIONS
TO
HATTON SCHOOL
FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9333

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 03-06-24 KENNETH RAY GUNN, JR.

SHEET TITLE : PANELBOARD SCHEDULE

MCKEE JOB # : 23.229

DRAWN BY : KRG

DATE: 03.06.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E5.4

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

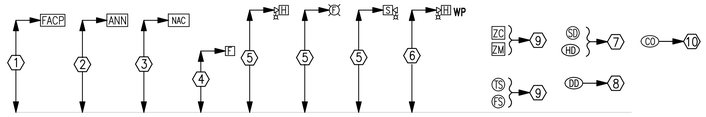
Tuesday, March 5, 2024 3:54:27 PM

FIRE ALARM SYSTEM NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:
   PRIMARY POWER – 120V AC
   NOTIFICATION APPLIANCE CIRCUITS (NAC) – 24V DC
   SIGNALING LINE CIRCUIT (SLC) – 24V DC
5. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
6. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
8. THE CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE AUDIBILITY CALCULATIONS INDICATING COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND THE IBC. THE CONTRACT DRAWINGS INDICATE A MINIMUM DESIGN REQUIRED TO COMPLY WITH APPLICABLE CODES. HOWEVER, SINCE DEVICES VARY FROM MANUFACTURER TO MANUFACTURER THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ANY/ALL ADDITIONAL DEVICES AS REQUIRED TO PROVIDE AUDIBILITY AND VISIBILITY LEVELS THAT COMPLY WITH APPLICABLE SECTIONS OF NFPA 72 AND IBC.
9. PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINUMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
11. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
12. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
13. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
14. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
15. IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
16. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
17. PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.
18. "CLG" DENOTES A CEILING MOUNTED DEVICE AND "WP' DENOTES WEATHERPROOF DEVICE..
19. SEE STANDARD MOUNTING HEIGHT INSTRUCTIONS ON DETAILS (2) THIS SHEET.
20. CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SMOKE DETECTOR REPORTS AT THE FINAL TESTING OF THE FIRE ALARM SYSTEM TO SHOW THAT ALL SMOKE DETECTORS ARE LESS THAN 10% DIRTY. ANY SMOKE DETECTOR GREATER THAN 10% DIRTY SHALL BE CLEANED OR REPLACED UNTIL VALUE IS LESS THAN 10%.

FIRE ALARM MOUNTING HEIGHTS/INSTRUCTIONS NOTES:

1. MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
2. MOUNT ANNUNCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUNCIATOR UNLESS OTHERWISE NOTED.
3. REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
4. MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
5. ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
6. WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
7. SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
8. DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
9. ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3-FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.
10. MOUNT WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER.



2 E6.1 STANDARD MOUNTING HEIGHTS/INSTRUCTIONS
NO SCALE

EMERGENCY RADIO SYSTEM

PROVIDE EMERGENCY RESPONDER RADIO SYSTEM TO MEET 2021 INTERNATIONAL FIRE CODE WITHIN THE BUILDING. SYSTEM SHALL MEET UL2524 AND COMPLY WITH IBC 2021 510.

BASE BID:

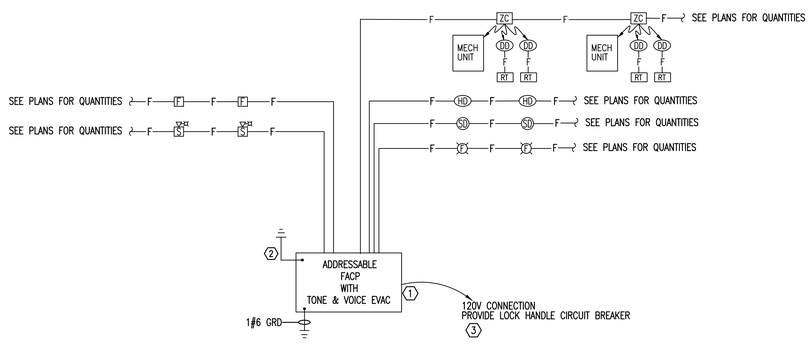
1. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST AT (5) LOCATIONS ON SITE WITHIN PROPOSED BUILDING FOOTPRINT. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE.
2. PROVIDE SHOP DRAWING FOR A DISTRIBUTION ANTENNA SYSTEM WITH AMPLIFIER TO COVER THE ENTIRE STRUCTURE TO MEET 510.4. SHOP DRAWINGS SHALL INCLUDE AMPLIFIER INFORMATION, ANTENNA LOCATIONS/COVERAGE, BATTERY DATA.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT WITH NYLON PULL STRINGS AS REFLECTED ON DRAWINGS. CONDUIT SHALL BE INSTALLED AS BASED BID AND ARE NOT ALLOWED FOR USE WITH ANY OTHER SYSTEM. ALL EMERGENCY RESPONDER RADIO SYSTEM CONDUIT SHALL BE MARKED WITH "BDA".
4. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST WITHIN THE BUILDING AT 80% COMPLETION OF CONSTRUCTION. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE. IF SIGNAL STRENGTH AT ANY PORTION OF THE BUILDING FALLS BELOW REQUIREMENTS OF IFC 510 AN EMERGENCY RESPONDER RADIO SYSTEM SHALL BE PROVIDED. SEE ALLOWANCE FOR ADDITIONAL INFORMATION.

ALLOWANCE:

1. IF THE TEST SIGNAL IS DEEMED NOT TO BE ACCEPTABLE THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING BY ALLOWANCE. PROVIDE AMPLIFIER, ANTENNA AND ALL ADDITIONAL REQUIRED SYSTEM PARTS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS (SEE ITEM 2 UNDER BASE BID ABOVE) AND IFC 2021 510.5. THIS INCLUDES OBTAINING PERMIT PER SECTION 510.3. THE SYSTEM SHALL BE RETESTED BY THE TESTING AGENCY PER 510.5.3 AND TEST RECORDS SHALL BE PROVIDED TO THE FIRE MARSHALL FOR ACCEPTANCE.

SHEET NOTES:

1. PROVIDE TVSS PROTECTION ON ALL INCOMING POWER FEEDS.
2. PROVIDE A UL LISTED CELLULAR COMMUNICATOR IN THE NEW FIRE ALARM PANEL. COORDINATE MONITORING WITH WINSTON COUNTY SCHOOLS MONITORING SERVICE COMPANY SUPERIOR SERVICE.
3. HOMERUN TO NEW PANEL AND PROVIDE A 20A/1P LOCK HANDLE CIRCUIT BREAKER TO TERMINATE HOMERUN.



1 E6.1 FIRE ALARM - RISER DIAGRAM
NO SCALE

ADDITIONS
TO
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FOR THE
LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26998 KENNETH RAY GUNN 03-06-24

SHEET TITLE :	FIRE ALARM RISER AND NOTES
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

Gunn & Associates, P.C.
Consulting Engineers
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1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

SHEET NO. : E6.1

- Tuesday, March 5, 2024 3:54:35 PM

SHEET NOTES:

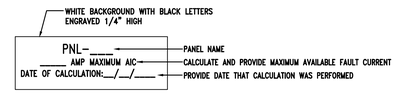
1. UTILITY POLE MOUNTED TRANSFORMER. PROVIDE CONCRETE PAD AND METERING PER JOE WHEELER SPECIFICATIONS. COORDINATE NEW CONSTRUCTION LOAD WITH NEW TRANSFORMER WITH LOCAL UTILITY. ADJUST BID ACCORDINGLY.
2. METER PROVIDE BY UTILITY COMPANY. ELECTRICAL CONTRACTOR TO PROVIDE METER CONDUIT PER UTILITY COMPANY SPECIFICATIONS.
3. SEE PANELBOARD SCHEDULE FOR CIRCUIT BREAKER PROVISIONS.
4. SEE SHEET E7.2 FOR GROUNDING DETAILS.
5. SEE SERVICE ENTRANCE NAMEPLATE DETAIL THIS SHEET.
6. SEE SITE PLAN SHEET E1.1.
7. SHUNT TRIP BUTTON IS MOMENTARY CONTACT MUSHROOM TYPE WITH 2 INCH DIAMETER BUTTON AND SHALL BE WEATHERPROF AND LOCKABLE ENCLOSURE TO PREVENT ACCIDENTAL ACTIVATION. LOCATE WHERE SHOWN ON PLANS (SEE SHEET E3.1.) PROVIDE MELAMINE ENGRAVED SIGNAGE (WHITE BACKGROUND/RED LETTERING) ABOVE BUTTON WITH 3/4" LETTERING THAT READS "EMERGENCY POWER DISCONNECT FOR BUILDING. DEPRESSING THIS BUTTON WILL DISCONNECT UTILITY POWER FROM BUILDING."

POWER RISER DIAGRAM NOTES:

1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING . CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. PROVIDE 4" CONCRETE HOUSEKEEPING PAD WITH 1" CHAMFER FOR ALL FLOOR MOUNTED TRANSFORMERS AND SWITCHBOARDS.
6. COORDINATE WITH GROUNDING DETAILS ON SHEET E7.02 FOR ALL THE DIFFERENT TYPE GROUNDING REQUIREMENTS.
7. ALL UNDERGROUND SECONDARY FEEDERS SHALL BE A MINIMUM OF 36" BELOW GRADE TO THE TOP OF THE DUCT BANK.
8. ALL UNDERGROUND PRIMARY FEEDERS SHALL BE A MINIMUM OF 48" BELOW GRADE TO THE TOP OF THE CONDUIT.
9. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS-BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR MAIN SERVICE PANEL.

NOTES:

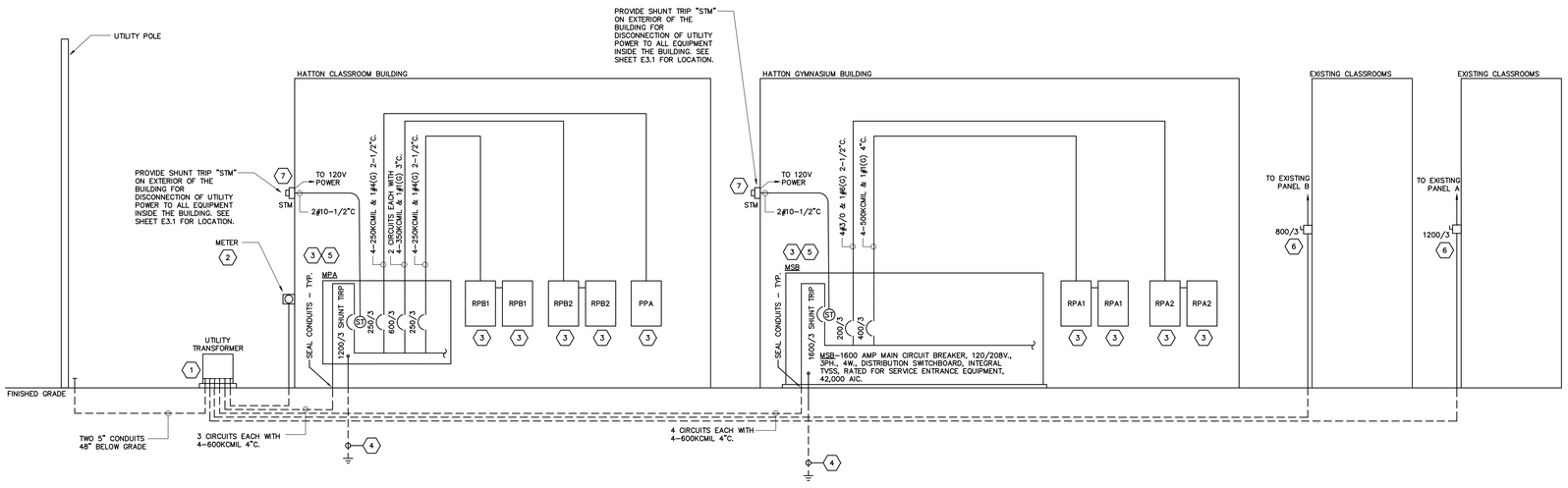
1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCUALTION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

2 / E7.1 DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

NO SCALE



1 / E7.1 RISER DIAGRAM POWER DISTRIBUTION - NEW WORK

NO SCALE

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ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26988 KENNETH RAY GUNN, JR. 03-06-24

SHEET TITLE :	RISER DIAGRAM AND NOTES
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

Gunn & Associates, P.C.
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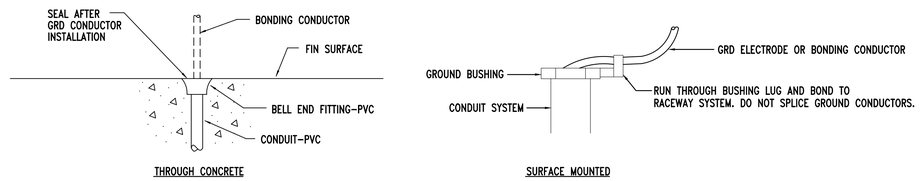
1200 Providence Park, Suite 200
Birmingham, AL 35242
GA#23-246

SHEET NO. : E7.1

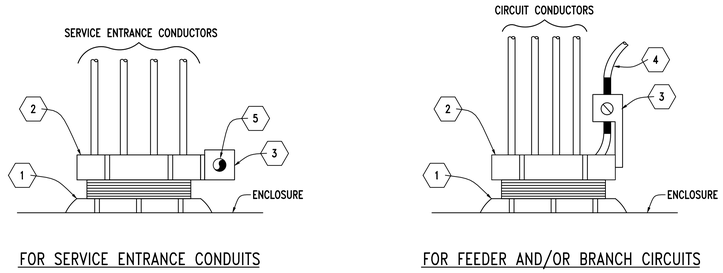
- Tuesday, March 5, 2024 3:54:43 PM

NOTES

1. ALL GROUND ELECTRODE CONDUCTORS, SYSTEM BONDING CONDUCTORS, ETC., RUN SEPARATELY SHALL BE PROTECTED BY A CONDUIT SYSTEM.
2. ALL SYSTEM GROUNDING OR BONDING CONDUCTORS SHALL GENERALLY BE ENCLOSED BY A GRC CONDUIT. PROVIDE GROUND BUSHINGS ON EACH END AND BOND CONDUCTORS TO RACEWAY SYSTEM.
3. SYSTEM BONDING CONDUCTORS THAT PENETRATE CONCRETE SLABS SHALL BE ENCLOSED BY A PVC CONDUIT. PROVIDE BELL END FITTING ON EACH END AND SEAL. THOSE TERMINATING AT A STUB-UP SHALL BE FLUSH WITH FLOOR.



1 / E7.2 DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM
NO SCALE



DETAIL NOTES

1. LOCK-NUT ASSEMBLIES
2. METAL GROUNDING BUSHING
3. COPPER GROUND LUG
4. COPPER GROUND CONDUCTOR. REMOVE INSULATION AT BUSHING, RUN THROUGH BUSHING LUG AND BOND TO RACEWAY SYSTEM. DO NOT SPLICE OR TAP.
5. CONTINOUS COPPER GROUND CONDUCTOR FROM GROUND BUS THROUGH EACH BUSHING. DO NOT SPLICE OR TAP.

2 / E7.2 DETAIL - TYPICAL GROUND BUSHING INSTALLATION
NO SCALE

GROUNDING AND BONDING INSTALLATION NOTES

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC, NESC, IEEE, ANSI AND UL STANDARDS.
2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. THE PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO ESTABLISH ALL EQUIPMENT ENCLOSURES, NON-CURRENT CARRYING METALLIC PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM, METAL PIPING, METAL BUILDING FRAME, ETC., AT A ZERO POTENTIAL RELATIVE TO THE EARTH GROUND AND PROVIDE FOR A SAFE, LOW IMPEDANCE RETURN PATH FOR GROUND-FAULT CURRENT. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING MANNER:
   - a. PROVIDE A SOLIDLY GROUNDED SECONDARY SYSTEM.
   - b. INTER-CONNECT ALL GROUND BUSES AND POINTS IN THE SYSTEM WITH A COPPER GRD CONDUCTOR (BUS) SYSTEM.
   - c. ALL METALLIC RACEWAYS SHALL BE UL APPROVED AND MADE-UP TIGHT AT ALL COUPLINGS AND TERMINATIONS.
   - d. ALL GROUND CONDUCTORS IN CIRCUITS SHALL BE CONTAINED WITHIN THE SAME RACEWAY AS CURRENT CARRYING CONDUCTORS.
   - e. ALL SPLICES AND TERMINATIONS SHALL BE MADE TIGHT AND AS SUCH TO PROVIDE LOW IMPEDANCE AND SHALL HAVE THE SAME SHORT-TIME CURRENT-CARRYING CAPABILITY AS THE CONDUCTOR IT IS CONNECTED TO.
   - f. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.

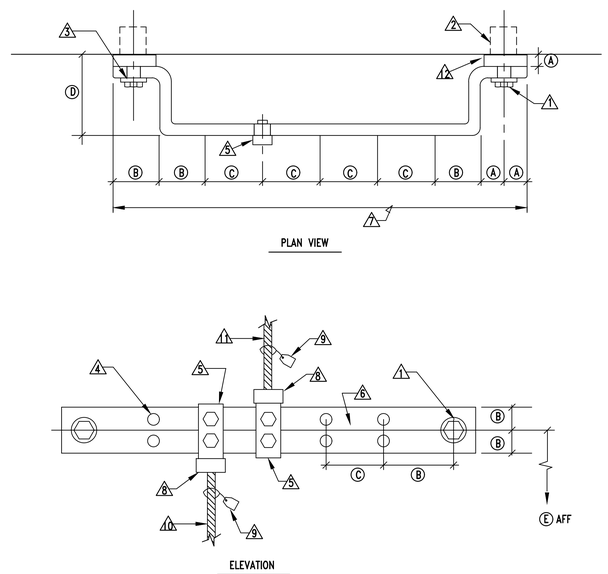
DIMENSION BLOCK		
REF	ENGLISH	SI
A	1"	25.4mm
B	2"	50.8mm
C	2 1/2"	63.5mm
D	3"	76.2mm
E	1'-6"	.4572m

GROUND BUS NOTES

1. GROUND BUS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND AS INDICATED ON THE DRAWINGS.

KEYED NOTES

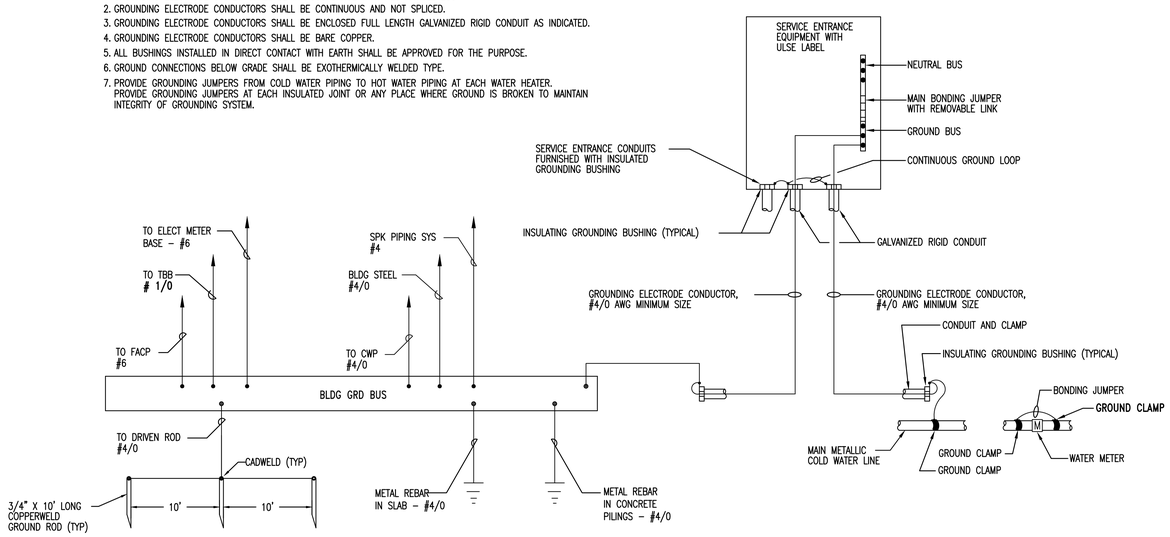
1. 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHINE BOLT & SILICON-BRONZE WASHER
2. 1/2" (12.7mm) EXPANSION ANCHOR
3. 9/16"ø (14.2875mm) HOLE IN BAR
4. DRILLED DOUBLE CONNECTOR HOLES
5. FLAT, TWO-HOLE CU CABLE CONNECTOR #6 TO #2 (DOUBLE LUGS) #1 TO #4/0 (SINGLE LUGS ONLY)
6. 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
7. LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
8. TYP CU GRD CONDUCTOR CONNECTION
9. DESCRIPTION TAG. STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
10. TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
11. TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
12. INSULATED NON-CONDUCTIVE SPACER



4 / E7.2 DETAIL - TYPICAL GROUND BUS INSTALLATION
NO SCALE

NOTES

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER.
5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER. PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN INTEGRITY OF GROUNDING SYSTEM.



3 / E7.2 DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION
NO SCALE

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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26888 KENNETH RAY GUNN 03-06-24

SHEET TITLE :	GROUNDING DETAILS AND NOTES
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
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Gunn & Associates, P.C.
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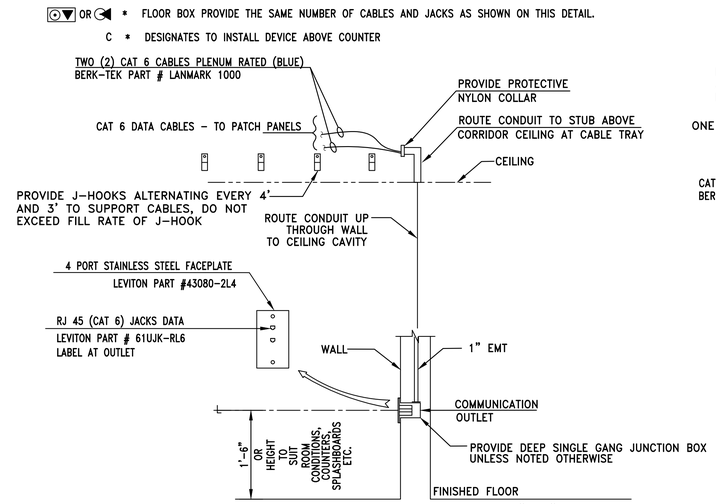
GA#23-246

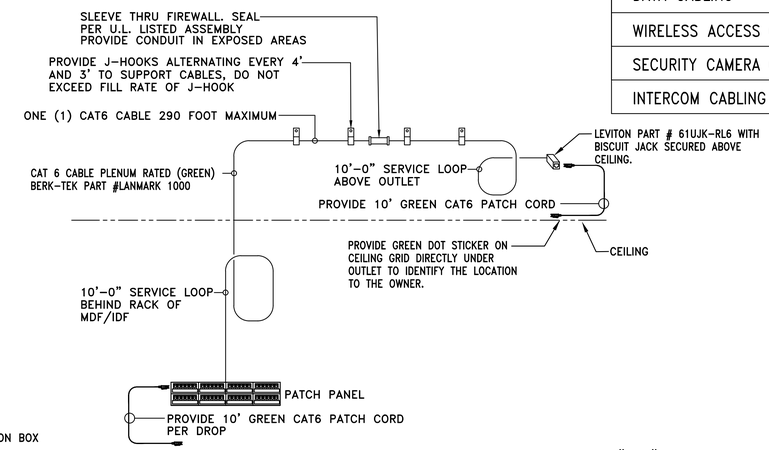
SHEET NO. : E7.2

- Tuesday, March 5, 2024 3:54:50 PM

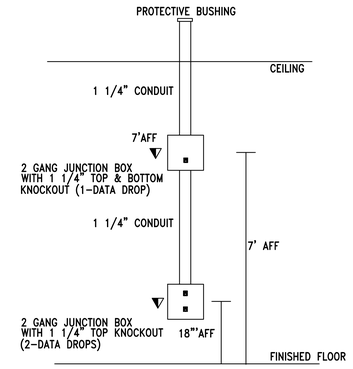
DATA CABLING & KEYSTONE COLOR CODE REQUIREMENT	
DATA CABLING	BLUE
WIRELESS ACCESS CABLING	GREEN
SECURITY CAMERA CABLING	ORANGE
INTERCOM CABLING	GRAY



1 E8.1 DETAIL - TYPICAL COMMUNICATIONS OUTLET "▽"
NO SCALE

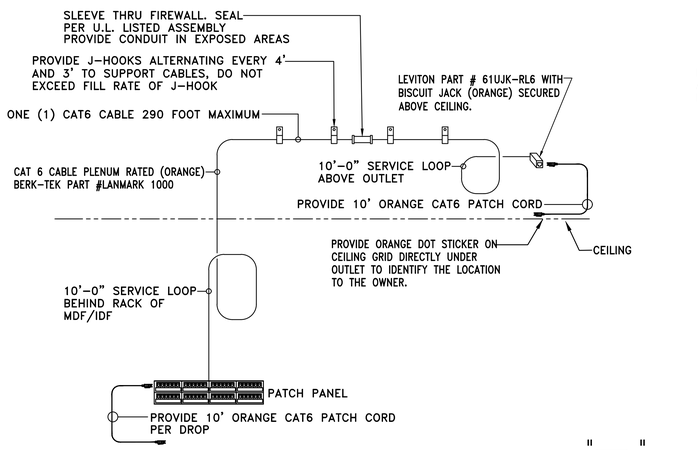


2 E8.1 DETAIL - TYPICAL WIRELESS ACCESS POINT OUTLET "W"
NO SCALE

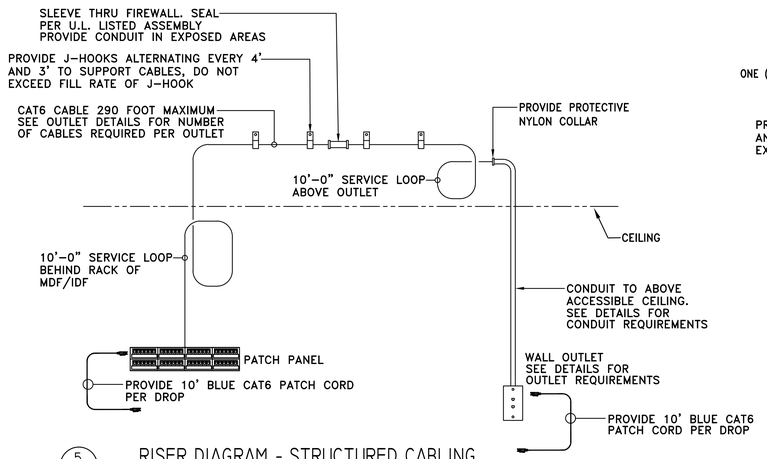


3 E8.1 DETAIL - FRONT OF CLASSROOM ROUGH-IN DETAIL
NO SCALE

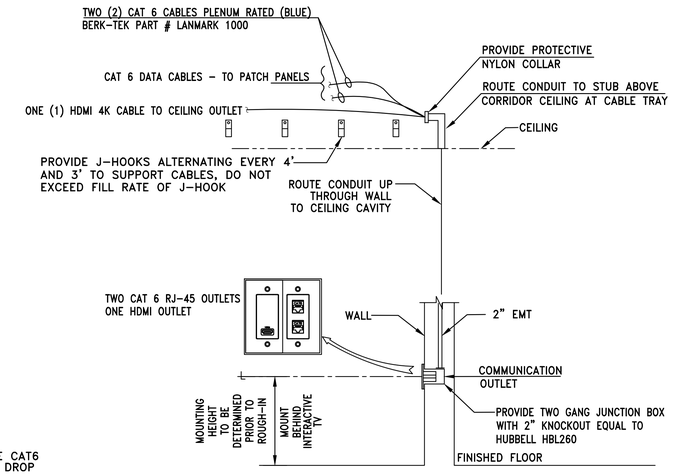
* NOTE: EXTERIOR CAMERAS PROVIDE SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT STUBBED TO ABOVE INTERIOR CEILING. COORDINATE EXTERIOR CAMERA KEYSTONE LOCATION WITH OWNER PRIOR TO INSTALLATION



4 E8.1 DETAIL - TYPICAL WIRELESS ACCESS POINT OUTLET "CCTV"
NO SCALE

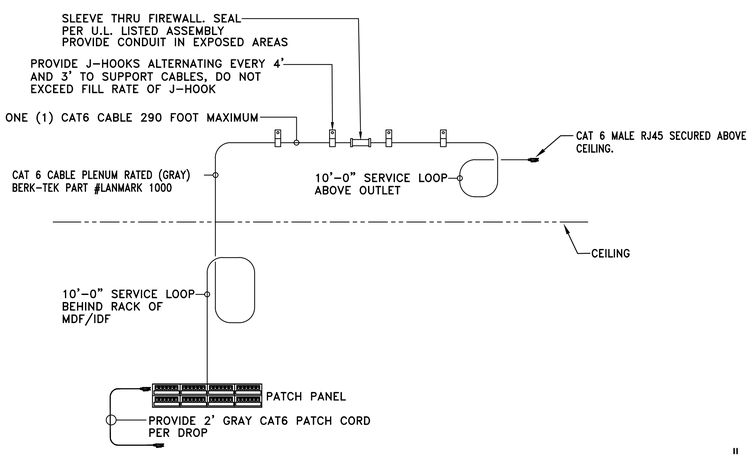


5 E8.1 RISER DIAGRAM - STRUCTURED CABLING
NO SCALE

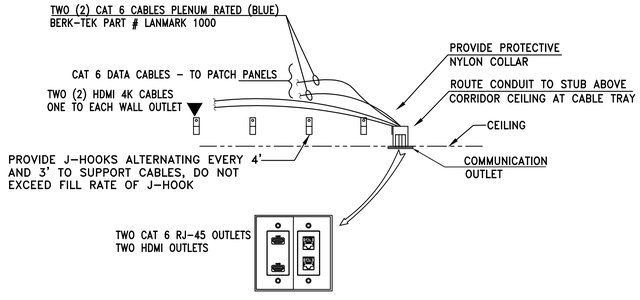


6 E6.2 DETAIL - TYPICAL COMMUNICATIONS OUTLET "▼"
NO SCALE

* NOTE: EXTERIOR SPEAKERS PROVIDE SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT STUBBED TO ABOVE INTERIOR CEILING. COORDINATE EXTERIOR SPEAKERS KEYSTONE LOCATION WITH OWNER PRIOR TO INSTALLATION



7 E8.1 DETAIL - TYPICAL PAGING MASTER SPEAKER ACCESS POINT OUTLET "M S, M S"
NO SCALE



8 E8.1 DETAIL - TYPICAL COMMUNICATIONS CEILING OUTLET "▽"
NO SCALE

ADDITIONS TO HATTON SCHOOL FOR THE LAWRENCE COUNTY BOARD OF EDUCATION
MOULTON, ALABAMA

McKEE and ASSOCIATES
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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26998 KENNETH RAY GUNN, JR. 03-06-24

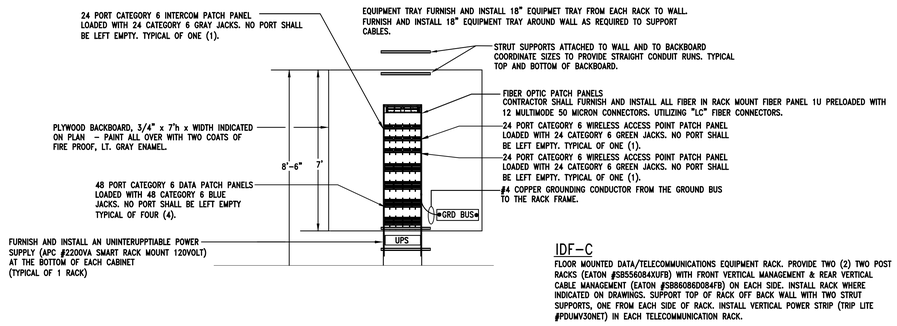
SHEET TITLE :	AUXILIARY DETAILS
MCKEE JOB # :	23.229
DRAWN BY :	KRG
DATE:	03.06.2024
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14 Millbrook, AL 36054 Tel: 334.285.1273
1200 Providence Park, Suite 200 Birmingham, AL 35242 GA#23-246

SHEET NO. : E8.1

- Tuesday, March 5, 2024 3:54:58 PM

*ALL DATA CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
*ALL WIRELESS ACCESS CABLES SHALL BE TERMINATED ON WIRELESS ACCESS PATCH PANELS
*ALL SECURITY CAMERA CABLES SHALL BE TERMINATED ON SECURITY CAMERA PATCH PANELS
*ALL INTERCOM CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
*PROVIDE NUMBER OF PATCH PANEL PARTS AS REQUIRED FOR ALL STRUCTURED CABLE DROPS WITH 25% SPARE CAPACITY.
*ALL FIBER OPTIC CONNECTIONS SHALL BE "LC" TYPE

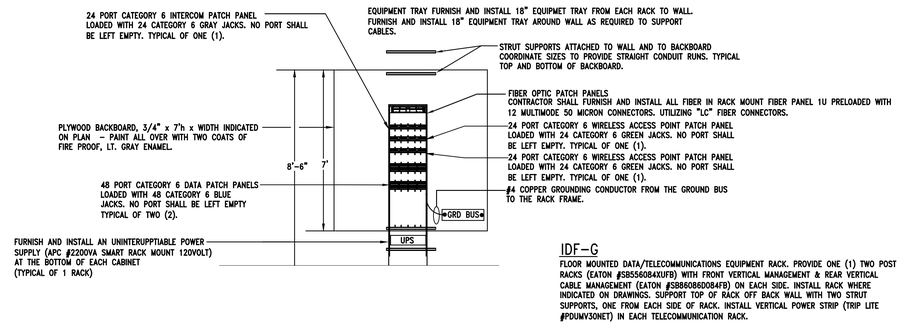


IDF-C

FLOOR MOUNTED DATA/TELECOMMUNICATIONS EQUIPMENT RACK. PROVIDE TWO (2) TWO POST RACKS (EATON #SB556084XUFB) WITH FRONT VERTICAL MANAGEMENT & REAR VERTICAL CABLE MANAGEMENT (EATON #SB86086D084FB) ON EACH SIDE. INSTALL RACK WHERE INDICATED ON DRAWINGS. SUPPORT TOP OF RACK OFF BACK WALL WITH TWO STRUT SUPPORTS, ONE FROM EACH SIDE OF RACK. INSTALL VERTICAL POWER STRIP (TRIP LITE #PDUMV30NET) IN EACH TELECOMMUNICATION RACK.

1 / E8.2 IDF-C COMMUNICATIONS RACK ELEVATION
NO SCALE

*ALL DATA CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
*ALL WIRELESS ACCESS CABLES SHALL BE TERMINATED ON WIRELESS ACCESS PATCH PANELS
*ALL SECURITY CAMERA CABLES SHALL BE TERMINATED ON SECURITY CAMERA PATCH PANELS
*ALL INTERCOM CABLES SHALL BE TERMINATED ON DATA PATCH PANELS
*PROVIDE NUMBER OF PATCH PANEL PARTS AS REQUIRED FOR ALL STRUCTURED CABLE DROPS WITH 25% SPARE CAPACITY.
*ALL FIBER OPTIC CONNECTIONS SHALL BE "LC" TYPE



IDF-G

FLOOR MOUNTED DATA/TELECOMMUNICATIONS EQUIPMENT RACK. PROVIDE ONE (1) TWO POST RACKS (EATON #SB556084XUFB) WITH FRONT VERTICAL MANAGEMENT & REAR VERTICAL CABLE MANAGEMENT (EATON #SB86086D084FB) ON EACH SIDE. INSTALL RACK WHERE INDICATED ON DRAWINGS. SUPPORT TOP OF RACK OFF BACK WALL WITH TWO STRUT SUPPORTS, ONE FROM EACH SIDE OF RACK. INSTALL VERTICAL POWER STRIP (TRIP LITE #PDUMV30NET) IN EACH TELECOMMUNICATION RACK.

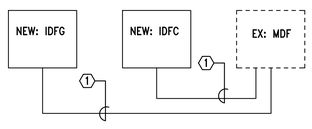
2 / E8.2 IDF-G COMMUNICATIONS RACK ELEVATION
NO SCALE

RISER DIAGRAM KEYED NOTES:

1. CONTRACTOR SHALL PROVIDE A 12 STRAND OM3 MM 50-MICRON FIBER OPTIC CABLE INTERCONNECTING THE EXISTING MDF TO THE NEW IDF. PROVIDE FIBER OPTIC PATCH EQUIPMENT IN EXISTING MDF IN EXISTING BUILDING TO INTERCONNECT THE TWO RACKS BY FIBER. PROVIDE LC TYPE CONNECTIONS. VISIT SITE PRIOR TO BIDS AND ADJUST ROUTING AND CABLING LENGTHS ACCORDINGLY. SEE ELECTRICAL SITE PLAN FOR CONDUIT REQUIREMENTS. PROVIDE J-HOOKS ABOVE CEILINGS TO SUPPORT FIBER IN CONCEALED AREAS. PROVIDE CONDUIT IN EXPOSED AREAS.

COMMUNICATION NOTES:

1. PROVIDE 5/8" STRUT ASSEMBLY AT TOP AND BOTTOM OF TBB TO SUPPORT ALL CONDUITS TERMINATING AT BACKBOARD.
2. TBB SHALL BE 3/4" PLYWOOD EXTERIOR RATED AND CUT TO COVER ALL WALLS OR AS INDICATED. PAINT WITH TWO COATS OF FIRE RETARDENT PAINT. MOUNT 2' AFF.
3. PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE THE CEILING, AT CABLE TRAY, OR AT TBB.
4. ALL CONDUIT TERMINATIONS SHOULD BE DONE EVENLY AT THE TOP AND BOTTOM OF TBB. TERMINATIONS SHALL BE MADE WITHIN THE FIRST FEW INCHES OF THE TBB.
5. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
6. PROVIDE GROUND BUS FOR EACH TBB. SEE GROUND BUS INSTALLATION DETAIL.
7. PROVIDE ALL CONDUITS WITH MINIMUM #800 MULE TAPE (PULL TAPE).
8. STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
9. ELECTRICAL CONTRACTOR WILL BE RESPONSIABLE FOR ALL RACEWAYS, CABLE TRAY, CABLING, PATCH PANELS, TERMINATIONS, BACKBOARDS, ETC. SEE RISER DIAGRAM, DETAILS, AND SPECIFICATIONS FOR FURTHER EQUIPMENT REQUIREMENTS.
10. BOND RACK FRAMES, STRUT, CONDUITS, AND LADDER RACK TO THE GROUND BUS WITH MINIMUM SIZE WIRE OF #1/0.

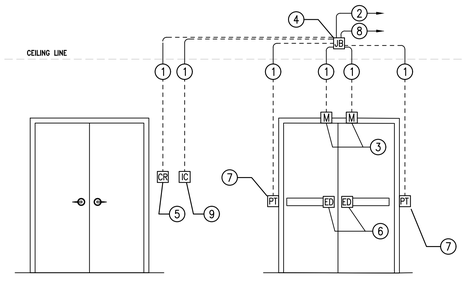


3 / E8.2 COMMUNICATIONS RISER DIGRAM
NO SCALE

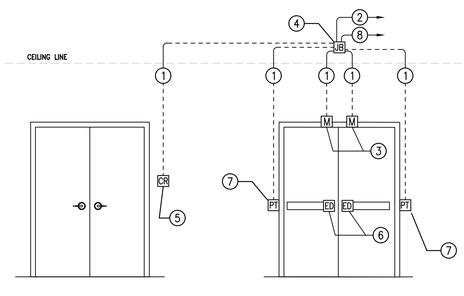
CONTRACTOR SHALL COORDINATE CONDUIT ROUGH-IN LOCATIONS WITH OWNER'S ACCESS CONTROL VENDOR PRIOR TO ROUGH-IN OF DOORS AND ADJUST CONDUIT AS NEEDED.

DOOR/SECURITY/ACCESS HARDWARE KEY

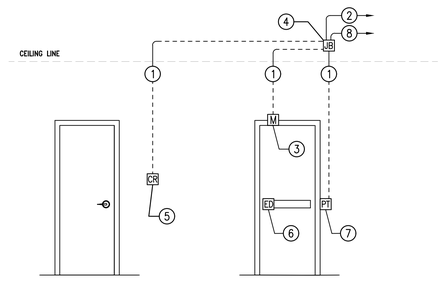
1. 3/4" CONDUIT TO JUNCTION BOX.
2. 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING.
3. RECESSED DOOR POSITION SWITCH. FRAME TO BE PREPPED BY DOOR SUPPLIER.
4. 4 SQUARE JUNCTION BOX MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.
5. CARD READER. OWNER PROVIDED DEVICE CONTRACTOR PROVIDES RACEWAY SINGLE GANG JUNCTION BOX MOUNTED 48" A.F.F.
6. EXIT DEVICE WITH LATCH RETRACTION AND INTEGRAL REQUEST – TO – EXIT SWITCH.
7. POWER TRANSFER HINGE. (BY OTHERS). RACEWAY BY CONTRACTOR
8. PROVIDE (1) CAT 6 CONNECTION BACK TO IDF WITH 20' SLACK AT DOOR.
9. INTERCOM/CAMERA. OWNER PROVIDED DEVICE CONTRACTOR PROVIDES RACEWAY. SINGLE GANG JUNCTION BOX MOUNTED 48" A.F.F.



A / E8.2 TYPICAL DOOR TYPE "A"
NO SCALE



B / E8.2 TYPICAL DOOR TYPE "B"
NO SCALE



C / E8.2 TYPICAL DOOR TYPE "C"
NO SCALE

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Birmingham, AL 35242
GA#/23-246

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- Tuesday, March 5, 2024 3:55:06 PM