MARY G. MONTGOMERY GYM

4275 SNOW RD N,
SEMMES, AL 36575

BID SET
ISSUED DATE: 08/19/26

BOARD OF SCHOOL COMMISSIONERS

CHRESAL D. THREADGILL	SUPERINTENDENT
SHERRY DILLIHAY-MCDADE	PRESIDENT, DISTRICT 4
LONNIE PARSONS	VICE PRESIDENT, DISTRICT 1
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REGINALD A. CRENSHAW, PH.D	DISTRICT 3
JOHNNY HATCHER	DISTRICT 5

DCM#: 2026145

FPN #25-10

STANDARD ABBREVIATIONS

STANDARD ABBREVIATIONS:

ABI - AMERICAN BRICK INSTITUTE
AC-PNL - ACOUSTICAL PANEL
AFF - ABOVE FINISH FLOOR
ALUM - ALUMINUM
BR - BACKER-ROD
BLKG - BLOCKING
BD - BOARD
BTM - BOTTOM
BLDG - BUILDING
BRZ - BRONZE
CAB - CABINET
CFAW - COLD FLUID APPLIED WATERPROOFING
CLG - CEILING
CLR - -CLEAR
CT - CERAMIC TILE
COL - COLUMN
CONC - CONCRETE
CMU - CONCRETE MASONRY UNIT
CONST - CONSTRUCTION
CPT - CARPET
CJ - CONTROL JOINT
DETL - DETAIL
DS - DOWNSPOUT
EA - EACH
EW - EACH WAY
EWC - ELECTRICAL WATER COOLER
EJ - EXPANSION JOINT
EXT - EXTERIOR
EXIST - EXISTING
FAMAB - FLUID APPLIED MEMBRANE AIR BARRIER
FIN - FINISH
FEC - FIRE EXTINGUISHER AND CABINET
FEWM- FIRE EXTINGUISHER-WALL MOUNTED
FE - FIRE EXTINGUISHER
FLR - FLOOR
FD - FLOOR DRAIN
GALV - GALVANIZED
GA - GAUGE
GWB - GYPSUM WALL BOARD
HT - HEIGHT
HM - HOLLOW METAL
HOR - HORIZONTAL
INSUL - INSULATION
INT - INTERIOR
MFR - MANUFACTURER
MTL - METAL
MIN - MINIMUM
MAX - MAXIMUM
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
OC - ON CENTER
OPNG - OPENING
OH - OVERHEAD
PTD - PAINTED
PLAM - PLASTIC LAMINATE
PL - PROPERTY LINE
PLMG - PLUMBING
PLYWD - PLYWOOD
R - RADIUS
RB - RUBBER BASE
REC - RECEPTACLE
REINF - REINFORCED (ING)
RD - ROOF DRAIN
RM - ROOM
RO - ROUGH OPENING
SCHED - SCHEDULED
SECT - SECTION
SIM - SIMILAR SPEC - SPECIFICATION
SS - SANITARY SEWER
STD - STANDARD
STRUCT - STRUCTURAL
THK - THICK (NESS)
TOC - TOP OF CURB
TOS - TOP OF STEEL
TOW - TOP OF WALL
TYP - TYPICAL
VERT - VERTICAL
VCT - VINYL COMP. TILE
VTR - VENT THRU ROOF
VWC - VINYL WALL COVERING
WP - WATERPROOFING
WF - WIDE FLANGE
W/ - WITH
W/O - WITHOUT
WD - WOOD
WWF - WELDED WIRE FABRIC
WIN - WINDOW
UNO - UNLESS NOTED OTHERWISE

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E402 ELECTRICAL DETAILS
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PROJECT TEAM

ARCHITECT
WARD SCOTT ARCHITECTURE, INC.
2715 SEVENTH STREET
TUSCALOOSA, ALABAMA 35401
(205) 345-6110

CIVIL ENGINEER
CLARK GEER LATHAM AND ASSOCIATES, INC
3901 SPRINGHILL AVENUE
MOBILE, ALABAMA 36608
(251) 344-7073

STRUCTURAL ENGINEER
BARNETT JONES WILSON, LLC
631 HELEN KELLER BLVD.
TUSCALOOSA, AL 35404
(205) 345-9595

PLUMBING, MECHANICAL, AND ELECTRICAL ENGINEER
H. M. YONGE AND ASSOCIATES, INC
253 ST. ANTHONY STREET
MOBILE, ALABAMA, 36603
(850) 434-2661

SHEET NUMBER SYSTEM

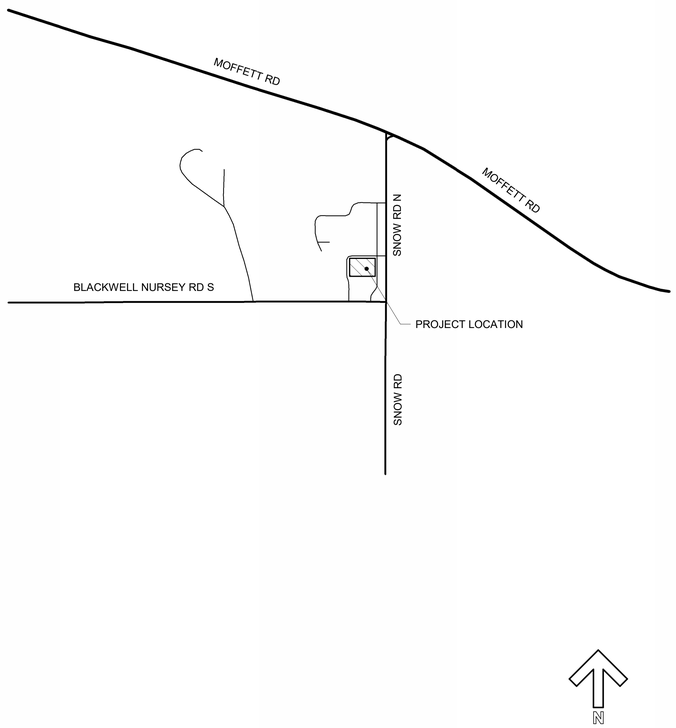
A121

DISCIPLINE DESIGNATOR
G-GENERAL
C-CIVIL
L-LANDSCAPE
S-STRUCTURAL
AC-ARCHITECTURAL SITE
A-ARCHITECTURAL
I-INTERIORS
FP-FIRE PROTECTION
M-MECHANICAL
E-ELECTRICAL
AV-AUDIO-VISUAL
P-PLUMBING
T-DATA/TELECOMMUNICATIONS

PLAN VIEWS
DIVISION + FLOOR LEVEL
OTHER VIEWS
DRAWING SEQUENCE

DRAWING TYPE DESIGNATOR
0 GEN. INFO., SCHEDULES, & NOTES
1 FLOOR PLANS
2 EXTERIOR ELEVATIONS
3 SECTIONS AND DETAILS
4 INTERIOR ELEV. & DETAILS
5 REFLECTED CEILING PLANS
6 FLOOR COVERING PATTERNS AND DETAILS

VICINITY MAP



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MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

STATE OF ALABAMA
JORDAN C MORRIS
7084
REGISTERED ARCHITECT

BID SET

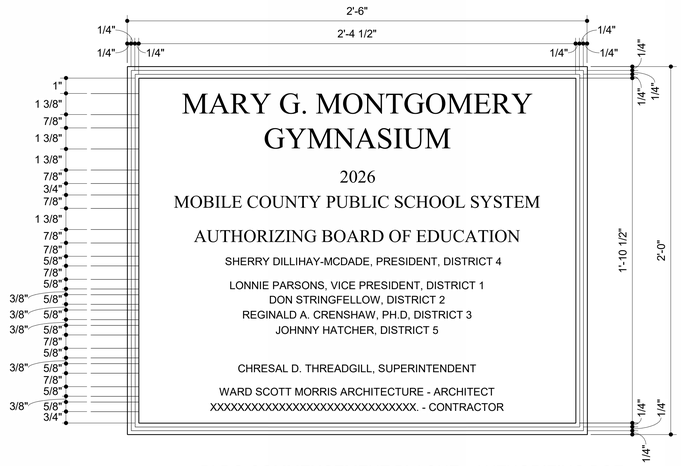
DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

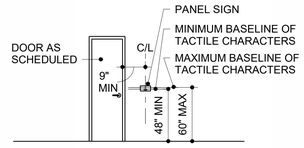
#	DESC	DATE

COVER SHEET

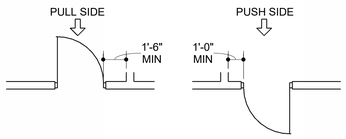
G101



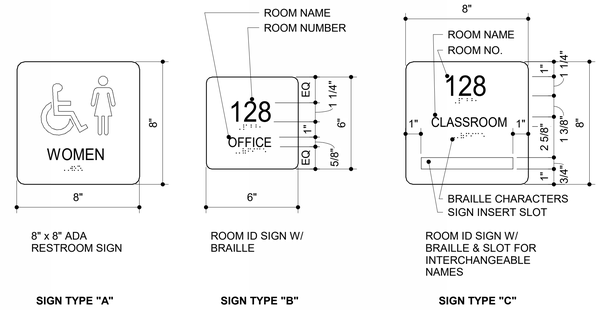
BLDG COMMENCEMENT PLAQUE - AUTHORIZING BOE
3" = 1'-0"



SIGNAGE LOCATION
1/4" = 1'-0"



ADA DOOR SWING CLEARANCES
1/4" = 1'-0"



8" x 8" ADA RESTROOM SIGN

SIGN TYPE "A"

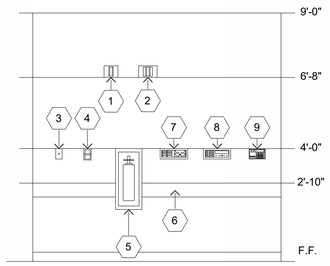
ROOM ID SIGN W/ BRAILLE

SIGN TYPE "B"

ROOM ID SIGN W/ BRAILLE & SLOT FOR INTERCHANGEABLE NAMES

SIGN TYPE "C"

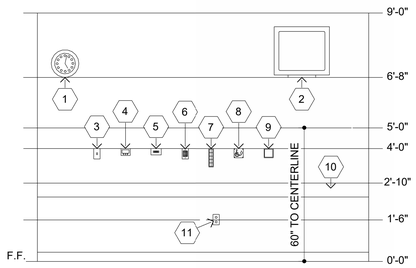
SIGNAGE ELEVATION
3" = 1'-0"



1. FIRE ALARM VISUAL STROBE
2. FIRE ALARM AUDIO/VISUAL DEVICE
3. FIREMAN'S TELEPHONE JACK
4. FIRE ALARM PULL STATION
5. FIRE EXTINGUISHER CABINET
6. WALL-MOUNTED BUMPER/CRASH RAIL
7. FIRE ALARM PANEL*
8. ANNUNCIATOR PANEL*
9. SECURITY SYSTEM CONTROL*

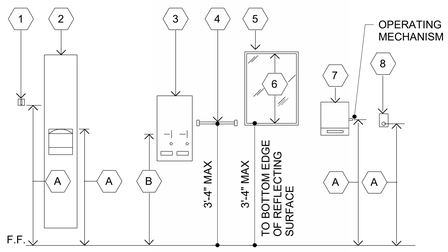
*IF OVER 3'-0" HIGH CASEWORK AND COUNTERS, ADJUST HEIGHT TO 4'-4" AFF, TO THE TOP OF TRIM.

FIRE PROTECTION MOUNTING HEIGHTS



1. CLOCK
2. TELEVISION MOUNTING BRACKET
3. LIGHT SWITCH
4. THERMOSTAT
5. CARD READ (SLIDE OR INSERTION)
6. KEY PAD FOR DOOR ACCESS
7. NUMERIC KEY PAD
8. PUSH BUTTON FOR AUTOMATIC DOOR
9. PUSH PLATE FOR AUTOMATIC DOOR
10. WALL MOUNTED BUMPER/CRASH RAIL
11. ELECTRICAL RECEPTACLE

STANDARD EQUIP. MOUNTING DETAIL

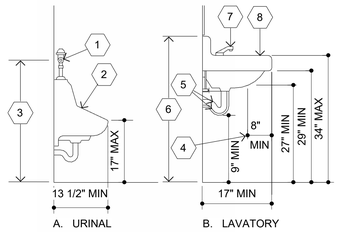


FOR ACCESSORY LOCATION AND TYPE SEE FLOOR PLAN

1. ROBE HOOK, SEE PLANS FOR TYPE
2. TOWEL DISPENSER/WASTE RECEPTACLE
3. SANITARY DISPENSER
4. TOWEL BAR, SEE PLANS FOR LENGTH & TYPE
5. FRAMED OR UNFRAMED MIRROR. AT UNFRAMED MIRROR, EASE ALL EDGES.
6. FOR MIRROR SIZE SEE SPECS. BOTTOM OF REFLECTING SURFACE MOUNTED AT 40" A.F.F. MAXIMUM.
7. TOWEL DISPENSER
8. SOAP DISPENSER

A. DIMENSION = 48" MAX.
B. DIMENSION = 3'-4" TO COIN SLOT OR HIGHEST OPERATOR

TYP. TOILET ACC. MOUNTING HEIGHTS

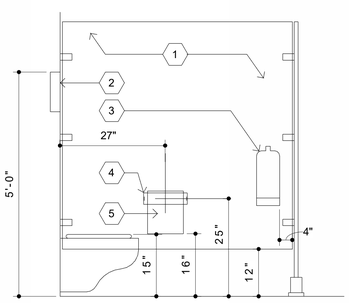


A. URINAL B. LAVATORY

ACCESSIBLE MOUNTING HEIGHTS

1. FLUSH VALVE , SEE PLUMBING DOCUMENTS FOR VALVE TYPE
2. URINAL, SEE PLUMBING DOCUMENTS FOR FIXTURE TYPE
3. VALVE CONTROL LOCATED AT 3'-8" MAX A.F.F.
4. KNEE SPACE CLEARANCE
5. INSULATE HOT WATER AND DRAIN PIPES WITH CLOSELY, PREFORMED INSULATION
6. BOTTOM OF VIEWING SURFACE OF MIRROR AT 40" MAX ABOVE A.F.F.
7. FAUCET CONTROL, SEE PLUMBING DOCUMENTS
8. BASIN DEPTH NOT TO EXCEED 6 1/2" DEEP. SEE PLUMBING DOCUMENTS FOR FIXTURE TYPE.

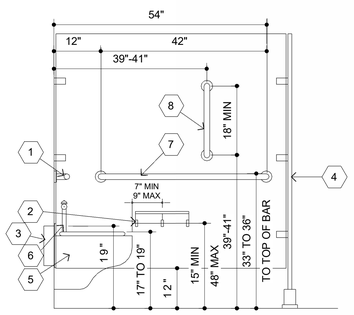
FIXTURE MOUNTING HEIGHTS



ELEVATION OF TOILET STALL

1. TOILET PARTITION OR RESTROOM WALL. SEE FLOOR PLANS FOR TYPE OR STYLE, I.E. CEILING HUNG OR FLOOR MOUNTED TOILET PARTITION OR DRYWALL PARTITION
2. SEAT COVER DISPENSER LOCATION. WILL BE SHOWN ON FLOOR PLAN IF REQUIRED
3. UTILITY SHELF. LOCATE SAME SIDE AS SANITARY RECEPTACLE WILL BE SHOWN ON FLOOR PLAN IF REQUIRED
4. TOILET PAPER DISPENSER REQUIRED AT EACH WATER CLOSET. LOCATE ON SIDE OPPOSITE SANITARY RECEPTACLE WHEN REQUIRED, OTHERWISE ON DOOR HINGE SIDE OF COMPARTMENT
5. SANITARY RECEPTACLE REQUIRED AT EACH WATER CLOSET IN WOMEN'S TOILETS. IN PAIRS OF TOILET COMPARTMENTS, LOCATE ON BOTH SIDES OF THE COMMON DIVIDER PANEL. IN ODD OR SINGLE COMPARTMENTS, LOCATE ON DOOR STRIKE SIDE OF COMPARTMENT. WILL BE SHOWN ON FLOOR PLAN IF REQUIRED

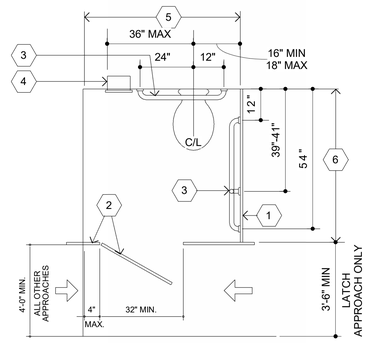
STANDARD STALL MOUNTING HEIGHTS



ELEVATION OF ACCESSIBLE TOILET STALL

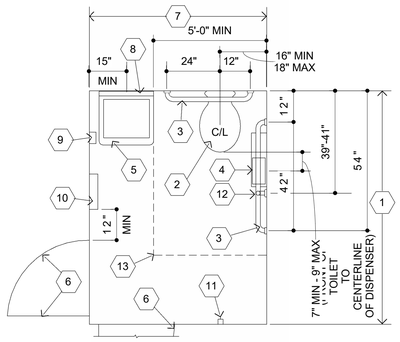
1. GRAB BAR ON BACK WALL
2. TOILET PAPER DISPENSER ON SIDE NEAREST TOILET
3. RECESSED SANITARY RECEPTACLE. LOCATE ADJACENT TO TOILET OF ALL WOMEN'S & UNDESIG. PUBLIC TOILETS, WILL BE SHOWN ON FLOOR PLAN IF REQUIRED
4. FOR TOILET STALL PARTITION TYPE OR STYLE, I.E. CEILING HUNG OR FLOOR MOUNTED, SEE PLANS
5. FOR FIXTURE TYPE SEE PLUMBING DOCUMENTS
6. FLUSH VALVE TO BE MOUNTED ON WIDE SIDE OF ACCESSIBLE TOILET STALL. SEE PLUMBING DOCUMENTS.
7. GRAB BAR. LOCATE ON SIDE NEAREST TOILET. SEE PLANS
8. VERTICAL GRAB BAR. LOCATE ON SIDE NEAREST TOILET. SEE PLANS

ACCESSIBLE STALL MOUNTING HEIGHTS



1. TOILET COMPARTMENT SIDE PANEL OR SIDE PARTITION, SEE PLANS FOR DESCRIPTION
2. FRONT ACCESS COMPARTMENT DOOR AND STILE PANEL
3. WALL MOUNTED GRAB BARS. GRAB BAR, FASTENERS, MOUNTING DEVICES TO SUPPORT AT LEAST 250LBS.
4. RECESSED NAPKIN RECEPTACLE REQUIRED IN WOMEN'S TOILET AND UNDESIGNATED TOILETS. WILL BE SHOWN ON FLOOR PLANS IF REQUIRED
5. WIDTH OF STALL. FOR DIMENSIONS SEE PLANS. 5'-0" MINIMUM CLEAR
6. DEPTH OF STALL. FOR DIMENSIONS SEE PLANS. 4'-8" MINIMUM CLEAR AT WALL MOUNTED WATER CLOSET, 4'-11" AT FLOOR MOUNTED WATER CLOSET

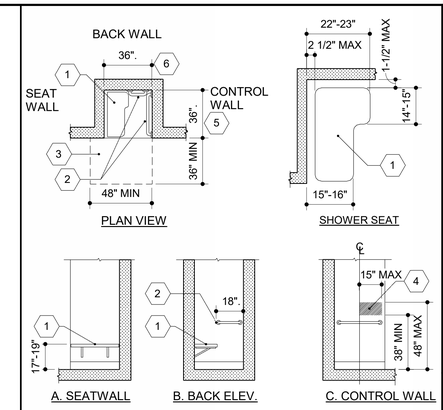
TYPICAL ACCESSIBLE TOILET STALL



1. DEPTH OF TOILET ROOM 7'-8" MIN. SEE PLANS FOR ACTUAL DIMENSIONS
2. TOILET FIXTURE. TOP OF SEAT 17" TO 19" A.F.F. SEE PLUMBING FOR TYPE
3. WALL MOUNTED GRAB BARS. MOUNTED BETWEEN 33" AND 36" A.F.F. TO TOP OF RAIL
4. TOILET PAPER DISPENSER. MOUNTED AT 15" MIN. TO 48" MAX. A.F.F. TO CENTERLINE
5. WALL MOUNTED LAVATORY. TOP OF BASIN MOUNTED AT 34" A.F.F. SEE PLUMBING FOR TYPE
6. 3'-0" DOOR LOCATION. SEE PLANS FOR FOR PROJECT CONDITION.
7. WIDTH OF TOILET ROOM 7'-2" MIN. SEE PLANS FOR ACTUAL DIMENSIONS.
8. FRAMED MIRROR, 18" x 36". BOTTOM OF VIEWING SURFACE MOUNTED AT 40" A.F.F.
9. SOAP DISPENSER. SURFACE MOUNTED AT 48" MAX. A.F.F. TO CONTROLS
10. PAPER TOWEL DISPENSER. SURFACE MOUNTED AT 48" MAX. A.F.F. TO CONTROLS
11. COAT HOOK. MOUNTED AT 48" MAX. A.F.F.
12. 18" VERTICAL GRAB BAR. MOUNTED 39"-41" A.F.F. TO BOTTOM OF BAR
13. 60" x 56" CLEAR FLOOR SPACE

SINGLE USER ACCESSIBLE TOILET

STANDARD MOUNTING HEIGHTS AND CLEARANCES
1/8" = 1'-0"



PLAN VIEW — SHOWER SEAT — A. SEATWALL — B. BACK ELEV. — C. CONTROL WALL

1. FOLDING SHOWER SEAT, FULL DEPTH OF STALL
2. GRAB BARS INSTALLED IN A HORIZONTAL POSITION, 33" MIN AND 36" MAX ABOVE FINISH FLOOR MEASURED TO TOP OF THE GRIPPING SURFACE
3. REQ'D CLEAR AREA FOR HANDICAPPED ACCESS.
4. CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL OPPOSITE THE SEAT. A SHOWER SPRAY UNIT WITH A HOSE 59" LONG MINIMUM THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER
5. DEPTH OF SHOWER STALL, 3'-0" EXACT. SEE FLOOR PLANS FOR SPECIFIC LAYOUT.
6. WIDTH OF SHOWER STALL, 3'-0" EXACT. SEE FLOOR PLANS FOR SPECIFIC LAYOUT.

ACCESSIBLE TRANSFER TYPE SHOWER

SHOWER STANDARDS
1/8" = 1'-0"

NOTE REFERENCE SEE "REFERENCE NOTES" ON EACH SHEET

DRAWING REVISION

ROOM NAME — ROOM NAME AND NUMBER
SEQUENCE
DIVISION
FLOOR LEVEL

101A — OPENING NUMBER SEE SCHEDULE
SUFFIX
SEQUENCE
DIVISION
FLOOR LEVEL

WINDOW REFERENCE SEE SCHEDULE

TOILET ACCESSORY REFERENCE SEE SCHEDULE

WALL TYPE REFERENCE SEE SCHEDULE

ELEVATION REFERENCE

BLDG/WALL SECTION NUMBER
BUILDING/WALL SECTION OR DETAIL REFERENCE
SHEET WHERE DRAWN

DETAIL NUMBER
DETAIL REFERENCE
SHEET WHERE DRAWN

DRAWING SYMBOLS
12" = 1'-0"

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MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

STATE OF ALABAMA — JORDAN C MORRIS — 7084 — REGISTERED ARCHITECT

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE

GENERAL INFORMATION

G102

Name	BUILDING USE AND OCCUPANCY LOAD DATA: OCCUPANCY CLASSIFICATION	AREA	BUILDING USE AND OCCUPANCY LOAD DATA: USE CLASSIFICATION	OCCUPANT LOAD FACTOR	GROSS / NET	OCCUPANT LOAD	BUILDING EXIT CAPACITY DATA: EGRESS COMPONENT TYPE	CAPACITIY FACTOR (IN. PER OCCUPANT)	TOTAL EXIT WIDTH (IN.) REQUIRED	TOTAL EXIT WIDTH (IN.) PROVIDED
ACCESSORY STORAGE & MECHANICAL	STORAGE S-1	1,803 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF	GROSS	9	(none)	0.2	5	0
BUSINESS	BUSINESS B	372 SF	BUSINESS AREAS	100 SF	GROSS	5	(none)		0	0
EXERCISE ROOM	ASSEMBLY A-3	803 SF	EXERCISE ROOMS	50 SF	GROSS	17	(none)	0.2	4	0
GYM	ASSEMBLY A-3	12,404 SF	ASSEMBLY WITHOUT FIXED SEATS - CONCENTRATED (CHAIRS ONLY-NOT FIXED)	7 SF	NET	1773	(none)	0.2	355	0
KITCHEN	BUSINESS B	409 SF	KITCHENS, COMMERCIAL	200 SF	GROSS	3	(none)	0.2	1	0
LOCKER ROOMS	ASSEMBLY A-3	1,499 SF	LOCKER ROOMS	50 SF	GROSS	32	(none)	0.2	8	0
Grand total		17,290 SF				1838			373	0

EGRESS DATA	
EXIT PATH	DISTANCE
EGRESS PATH A	110' - 7"
EGRESS PATH B	73' - 3"
EGRESS PATH C	91' - 7"
EGRESS PATH D	86' - 9"

LIFE SAFETY PLAN LEGEND:

- EGRESS PATH
- * FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET
- SMOKE RESISTANT PARTITION

CODE COMPLIANCE TABLE - EXISTING RENOVATION

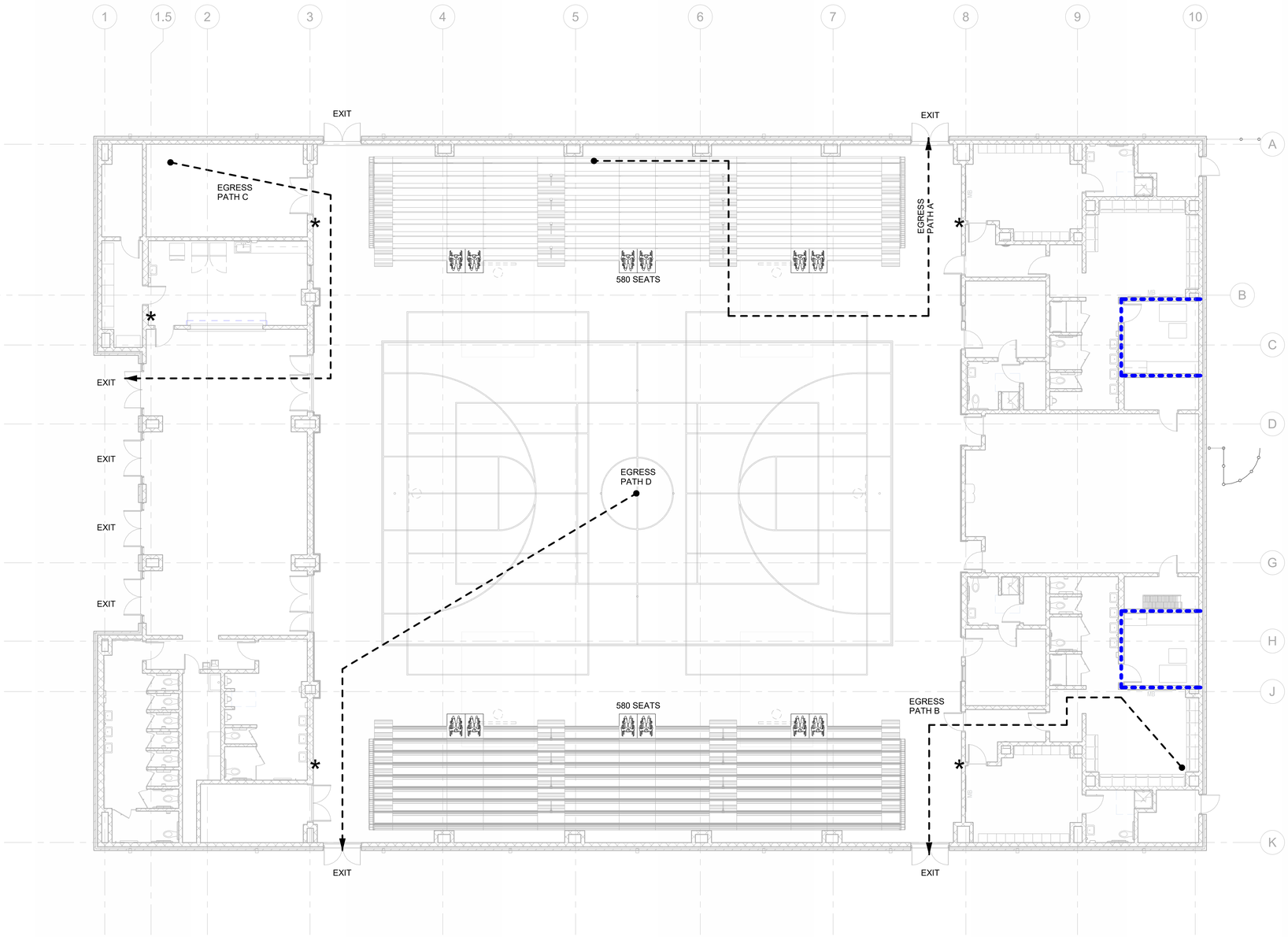
PROJECT: MARY G MONTGOMERY GYM

APPLICABLE CODES AND STANDARDS		
CODES ADOPTED BY THE DIVISION OF CONSTRUCTION MANAGEMENT		
INTERNATIONAL BUILDING CODE	2021 EDITION	With Amendments and Additions
INTERNATIONAL PLUMBING CODE	2021 EDITION	With Amendments and Additions
INTERNATIONAL FUEL GAS CODE	2021 EDITION	
INTERNATIONAL MECHANICAL CODE	2021 EDITION	
NATIONAL ELECTRICAL CODE	2020 EDITION	
INTERNATIONAL FIRE CODE	2021 EDITION	
ANSI / ASHRAE / IESNA 90.1	2013 Energy Standard	With Amendments and Additions
ASHRAE 180	2018 Energy Standard	Alabama Commercial HVAC Inspection and Maintenance Code
2010 ADA Standards for Accessible Design	2010 EDITION	Supersedes accessibility requirements in IBC
NFPA 13	2019 EDITION	Alabama Fire Sprinkler Code
NFPA 58	2020 EDITION	Alabama LP Gas Code 2020 with Amendments and Additions
NFPA 72	2019 EDITION	Alabama Fire Alarm Code
NFPA 110	2019 EDITION	Alabama Emergency and Standby Power Code
NFPA 110 UFC	2003 EDITION	Portable Fire Extinguishers
STATE OF ALABAMA BUILDING COMMISSION	2008 MEMORANDUM	Plumbing Fixtures for School Sports Stadums
ICC 300	2017 EDITION	Standard on Bleachers, Folding and Telescopic Seating, and Grandstands

DESIGN COMPONENTS	CODE APPLICATION: DESCRIPTION	CODE APPLICATION: VALUE	CODE REFERENCES AND NOTES
USE AND OCCUPANCY CLASSIFICATION			
GROUP A - ASSEMBLY W/O FIXED SEATING (A-3)	ASSEMBLY GROUP A (A-3)		303.5
ACCESSORY OCCUPANCY	ASSEMBLY, BUSINESS, STORAGE		IBC 303.3 & 303.4
SPECIAL REQUIREMENTS	STORM SHELTER NOT REQUIRED		IBC 423.4
TYPE OF CONSTRUCTION	APPLIES TO ALL BUILDINGS		IBC 602
	II-B, SPRINKLERED		IBC 602.2
HEIGHT RESTRICTIONS	APPLIES TO ALL BUILDINGS		IBC 504
TABULAR HEIGHT ALLOWED	VALUE W/ SPRINKLER	75 FT	IBC TABLE 504.3
TOTAL STORIES ALLOWED	TABULAR VALUE	3	IBC TABLE 504.4
ACTUAL NO. OF STORIES		1	HEIGHT IS IN COMPLIANCE
ACTUAL HEIGHT		35'-1"	HEIGHT IS IN COMPLIANCE
AREA RESTRICTIONS	APPLIES TO ALL BUILDINGS		IBC 506
FIRST FLOOR	**TOTAL AREA ALLOWED PER FLOOR:**		
TABULAR AREA ALLOWED	VALUE W/ SPRINKLER (S1)	38,000	IBC TABLE 506.2
FRONTAGE INCREASE FORMULA	I=[2001/2001-0.25)*30/30]*NON-SPRINKLERED TABULAR AREA	N/A	IBC 506.2.3 & IBC 506.3.3
FRONTAGE TABULAR AREA	NONE TAKEN, TABULAR VALUE	0	IBC TABLE 506.2
TOTAL AREA ALLOWED PER FLOOR	WITH FRONTAGE INCREASE	N/A	IBC 506.2.3
TOTAL BUILDING AREA (GROSS)	TOTAL BUILDING AREA (GROSS)	**21,459**	
FIRE RESISTANCE RATINGS FOR CONSTRUCTION TYPE			
STRUCTURAL FRAME		0 HOUR	IBC TABLE 601
BEARING WALLS			
EXTERIOR	SEPARATION DISTANCE = 30'	0 HOUR	IBC TABLE 601 & 602
INTERIOR		0 HOUR	IBC TABLE 601
NON-BEARING WALLS AND PARTITIONS			
EXTERIOR	SEPARATION DISTANCE = 30'	0 HOUR	IBC TABLE 602
INTERIOR		0 HOUR	IBC TABLE 601
FLOOR / CEILING		0 HOUR	ICC 500, 601
ROOF / CEILING		0 HOUR	IBC TABLE 601
FIRE RESISTANT PROTECTIVE CONSTRUCTION REQUIREMENTS			
MAX AREA OF EXTERIOR WALL OPNGS	FIRE SEPARATION DISTANCE IN SPRINKLERED BUILDING >= 20'	NO LIMIT	IBC TABLE 705.8, SEE PLAN FOR COMPLIANCE
FIRE WALLS	TYPE II CONSTRUCTION	N/A	IBC TABLE 706.4, NOTE A
FIRE BARRIERS			IBC 707.1
SHAFT ENCLOSURES	N/A		IBC 713.1, 1023.2
STORM SHELTER FROM ADJACENT	N/A		ICC 500 601.1
FIRE AREA SEPARATION	N/A		
FIRE-RESISTANT JOINT SYSTEMS	N/A		IBC 714.1 & 714.3
FIRE PARTITIONS	W/ SPRINKLER SYSTEM	0 HOUR	IBC TABLE 1020.1
SMOKE BARRIERS	N/A		IBC 709
SMOKE PARTITIONS	N/A		IBC 710
HORIZONTAL ASSEMBLIES-FLOOR & ROOF	N/A		IBC 711
OPENING PROTECTIVES			
OPENING FIRE RATING		N/A	IBC FIGURE 716.3(2)
SAFETY GLAZING REQUIREMENTS	HAZARDOUS LOCATIONS	COMPLIES	IBC 2406.4
WINDBORNE DEBRIS	RISK CATEGORY III	LARGE MISSILE IMPACT	IBC 1609.2, ASTM E1996, IBC TABLE 1604.5
INTERIOR FINISHES			
EXIT ENCLOSURES AND PASSAGEWAYS	SPRINKLERED	CLASS B	IBC TABLE 803.11
CORRIDORS	SPRINKLERED	CLASS B	IBC TABLE 803.11
ROOMS AND ENCLOSED SPACES	SPRINKLERED	CLASS C	IBC TABLE 803.11
FIRE PROTECTION SYSTEMS			
AUTOMATIC FIRE SPRINKLER SYSTEM	REQUIRED FOR GROUP E OVER 12000 SF AND FOR GROUP A OVER 300 OCCUPANTS	PROVIDED	IFC 903.2.1.2, TABLE 903.2.3, ICC 500 602, NFPA 10 10
PORTABLE FIRE EXTINGUISHERS	MINIMUM TYPE 2-A DISTRIBUTED THROUGHOUT BUILDING	PROVIDED	IBC 906.1, TABLE 906.3(1), ICC 500 602, NFPA 10
FIRE ALARM AND DETECTION SYSTEMS	REQUIRED	PROVIDED	IBC 907.2.3
MEANS OF EGRESS	**REQUIRED**		
CEILING HEIGHT	MINIMUM ALLOWED	7'-6"	IBC 1003.2
DEAD END CORRIDORS	MAXIMUM ALLOWED, GROUP A	20 FT	IBC 1020.4 EXCEPTION 2
COMMON PATH OF TRAVEL	< 75 FT OF TRAVEL	20 FT	IBC TABLE 1006.2.1
EXIT ACCESS TRAVEL DISTANCE	GROUP A SPRINKLERED	250 FT	IBC TABLE 1017.2
EGRESS LIGHTING	1 FC	PROVIDED	IBC 1006.1 AND 1006.2
EMERGENCY EGRESS LIGHTING	BATTERY POWER	PROVIDED	IBC 1006.3
EGRESS DOORS	32" MINIMUM	36" + PROVIDED	IBC 1006.1.1
EGRESS SIGNS	REQUIRED	PROVIDED	IBC 1011
TOTAL OCCUPANT LOAD / MEANS OF EGRESS			
TOTAL OCCUPANT LOAD		1838	
NUMBER OF EXITS - FIRST FLOOR	MINIMUM REQUIRED: 4	6	IBC 1006.2.1.1
REQUIRED EXIT WIDTH - FIRST FLOOR	1838 OCC. * 2 PER OCC	368"	IBC 1005.3.2, EXCEPTION 1
ACTUAL EXIT WIDTH	4 DOUBLE DOOR EXITS (4*64")	256"	IBC 1006.3.1
	2 TRIPLE DOOR (2*88")	176"	
	TOTAL EXIT WIDTH	432"	
REQUIRED EXIT WIDTH AT MAIN ENTRY	1838 OCC. * 2 PER OCC. * 50%	184"	IBC 1030.2
ACTUAL EXIT WIDTH PROVIDE AT MAIN ENTRY	2 TRIPLE DOOR (2*88")	176"	

PLUMBING FIXTURE COUNT

	PER ALABAMA ACT 2019-388	REQUIRED	PROVIDED
ASSEMBLY A-3	OCCUPANT LOAD = 1838		
WATER CLOSETS FEMALE	1 PER 75	13	13
WATER CLOSETS MALE	1 PER 200	5	6
URINALS	NO GREATER THAN 2/3 REQUIRED		4
LAVATORIES - FEMALE	1 PER 300	4	9
LAVATORIES - MALE	1 PER 300	4	9
DRINKING FOUNTAINS	1 PER 1000	2	4
SERVICE SINK	1	1	1



1 LIFE SAFETY PLAN
1/8" = 1'-0"

N

WARD|SCOTT|MORRIS
ARCHITECTURE
TUSCALOOSA | HUNTSVILLE
1606 PAUL W. BRYANT DRIVE TUSCALOOSA, ALABAMA 35401
www.wardscottmorris.com

MARY G MONTGOMERY GYM
MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

STATE OF ALABAMA
JORDAN C MORRIS
7084
REGISTERED ARCHITECT

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE

LIFE SAFETY PLAN

G201

GENERAL NOTES:

1. BOUNDARY & TOPOGRAPHIC DATA TAKEN FROM SURVEY PREPARED BY CLARK, GEER, LATHAM & ASSOCIATES, INC.
2. CONTRACTOR TO NOTIFY ALL UNDERGROUND UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION EXCAVATION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA, FEDERAL, STATE AND LOCAL CODES.
3. CONTRACTOR TO COMPLY WITH ALL EROSION CONTROL STANDARDS AS SPECIFIED BY CITY, COUNTY AND STATE OFFICIALS.
4. DURING CONSTRUCTION, CONTRACTOR SHALL CHECK THE EROSION CONTROL FACILITIES DAILY, AND MAKE REPAIRS OR MODIFICATIONS AS NEEDED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER FACILITIES, POST STRUCTURAL AND NON-STRUCTURAL BMPS DURING CONSTRUCTION. UPON COMPLETION OF PROJECT, THIS SHALL BECOME THE RESPONSIBILITY OF THE OWNER. THE OWNER SHALL INSPECT ALL STORM DRAINS ON A MONTHLY BASIS AND REMOVE ANY SILTATION AS NEEDED.
6. ALL DISTURBED GRASSED AREAS SHALL BE SOLID SOD OR AS SHOWN ON ANY LANDSCAPE PLANS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE IS FULLY STABILIZED AT TIME OF SUBSTANTIAL COMPLETION AND FOR THE ONE YEAR WARRANTY PERIOD FOLLOWING SUBSTANTIAL COMPLETION.
7. CONSTRUCTION PHASE DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WATER SITE AS NEEDED, OR AS DIRECTED BY ENGINEER TO MAINTAIN ADEQUATE DUST CONTROL.
8. ANY AND ALL DESIGN, ERECTION, PERMIT FEES AND APPLICATION PERTAINING TO ANY AND ALL WORK ZONE TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. RIGHT OF WAY STRIPING SHALL BE THERMOPLASTIC STRIPING UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL UNCOVER AND VERIFY THE DEPTH OF ALL UTILITY TIE-IN POINTS PRIOR TO CONSTRUCTION AND ORDERING OF ANY MATERIALS. IF CONDITIONS ARE ENCOUNTERED DIFFERENT FROM DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY AND ADJUSTMENTS SHALL BE DETERMINED.
11. BACKFILL ALL EXCAVATED AREAS WHERE UTILITIES ARE REMOVED WITH SAND-CLAY STRUCTURAL FILL CONFORMING TO ALDOT SECTION 821, TYPE B. COMPACT IN 8 INCH LIFTS NOT LESS THAN 95% MODIFIED PROCTOR DENSITY.
12. ANY EXISTING UTILITIES TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND DISPOSED OF OFF-SITE IN A LEGAL MANNER.
13. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NEEDED PERMITS AND LICENSES.
14. ALL WORKMANSHIP AND MATERIAL PROPOSED WITHIN CITY AND STATE RIGHTS-OF-WAY SHALL ADHERE TO ALDOT STANDARD SPECIFICATIONS, LATEST EDITION.

SITE UTILITY NOTES:

1. ALL NEW FIRE HYDRANTS, SEWER MANHOLES, WORK, MATERIALS, ETC. SHALL BE PER THE MOBILE AREA WATER & SEWER SYSTEM STANDARDS AND SPECIFICATIONS, AND ALL OTHER GOVERNING AGENCIES STANDARDS.
2. THE CONTRACTOR SHALL OBTAIN, AND HAVE AVAILABLE ON SITE, COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS DURING THE RELATED CONSTRUCTION OPERATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS, DIMENSIONS, AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION VIA UNDERGROUND RADAR . LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON THE BEST AVAILABLE RECORDS AND ARE SUBJECT TO SOME DEGREE OF VARIATION. IF CONFLICTS OCCUR, THE CONTRACTOR SHALL CONSULT THE ENGINEER TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH, AND CONTACT ALL APPROPRIATE UTILITIES INVOLVED, PRIOR TO CONSTRUCTION.
5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH, AND CONTACT THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION ZONE.
7. WHERE DIRECTED BY THE CITY OF SEMMES, THE CONTRACTOR SHALL PLACE TRAFFIC CONTROL DEVICES, THE PLACEMENT AND TYPE OF WHICH SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
8. ALL PAVEMENT CUTS TO CONNECT UTILITIES SHALL BE REPAIRED IN CONFORMANCE WITH THE CITY OF SEMMES STANDARD SPECIFICATIONS.
9. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL PERMITS.
10. WATER MAIN PIPING AND PRESSURE RATING SHALL BE C900 AND HAVE A MINIMUM OF 3'-0" OF COVER.
11. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES ON THE LAYOUT AND INSTALLATION OF UTILITY SERVICES, AND ON LOCATION OF EXISTING UTILITY STUBS BEFORE CONSTRUCTION BEGINS.
12. ALL FIRE LINES, FITTINGS, AND APPURTENANCES SHALL BE INSTALLED BY A CERTIFIED FIRE PROTECTION CONTRACTOR, AND SHALL CONFORM TO THE LATEST EDITION OF THE UFC, NFPA STANDARD, AND AWWA STANDARD C502-94.
13. CONTRACTOR SHALL PROVIDE AND INSTALL ALL PERMANENT, AND OR TEMPORARY, FIRE LINE FITTINGS AND APPURTENANCES TO CONDUCT TESTING AND CERTIFICATION OF FIRE LINE SERVICE STUBS PER LOCAL AND STATE ORDINANCES. CONTRACTOR SHALL COORDINATE WITH FIRE MARSHALL FOR TESTING.
14. CONTRACTOR SHALL TEST AND CLEAN ALL UTILITY PIPING AS REQUIRED BY 2021 INTERNATIONAL CODE.
15. THRUST BLOCKS TO HAVE BEARING SURFACE AGAINST TRENCH WALL AS NOTED. CONCRETE SHALL BE POURED ON AND AGAINST UNDISTURBED SOIL. MINIMUM COVER OVER THRUST BLOCKS TO BE 24". CONCRETE SHALL NOT INTERFERE WITH ACCESS TO FITTING JOINTS.
16. CONTRACTOR TO COORDINATE ALL INSPECTION AND CONSTRUCTION REQUIREMENTS WITH REGARDS TO MOBILE AREA WATER AND SEWER SYSTEM (MAWSS) RELATED TO WORK WITH MIKE STANLEY AT (251)694-3180.
17. FIRE RISER SHALL BE DESIGNED BY FIRE SPRINKLER CONTRACTOR AND SUBMITTED TO ENGINEER FOR APPROVAL.
18. SEWER IN DRIVEWAYS AND PARKING AREAS TO BE SDR 26, PVC SCHEDULE 40 D2665 OR STRONGER.

VICINITY MAP

SCALE: NONE

DRAINAGE NOTES

1. HDPE PIPE SHALL BE HIGH DENSITY POLYETHYLENE TYPE N-12 BY ADVANCE DRAINAGE SYSTEMS WITH BELL AND SPIGOT TYPE JOINT WITH O-RING RUBBER GASKET, ASTM F477.
2. RCP PIPE SHALL BE REINFORCED CONCRETE PIPE TYPE CLASS III CONFORMING TO ALDOT SPECIFICATIONS WITH COMPRESSION JOINTS, ASTM C-443.
3. PRE-CAST DRAINAGE STRUCTURES SHALL BE CONCRETE DRAINAGE BASINS CONFORMING TO THE FOLLOWING A DESIGN CRITERIA:
   - CONCRETE 4000PSI @ 28 DAY COMPRESSIVE STRENGTH
   - REINFORCING STEEL GRADE 60. 2" MINIMUM COVER
   - FIBERGLASS STEPS REQUIRED ON BASINS OVER 3'-6" DEEP
4. PIPE JOINTS SHALL BE WRAPPED WITH A NON-WOVEN FILTER FABRIC, EXTEND 2'-0" BEYOND EACH SIDE OF JOINT, LAP MINIMUM 12" AND GLUED WITH EPOXY GLUE. FABRIC SHALL BE MIRAFI 140NL OR APPROVED EQUAL.
5. SITE PREPARATION SHALL BE AS SPECIFIED IN THE GEOTECHNICAL REPORT BY SOUTHERN EARTH SCIENCE. CONTRACTOR TO COORDINATE GEOTECHNICAL CONSULTANT FOR TESTING AT A FREQUENCY OF ONE TEST PER 2500 SQUARE FEET OF FILL PER LIFT. COST OF TESTING SHALL BE PAID BY THE OWNER.
6. MAINTENANCE OF THE DETENTION POND WILL BE THE OWNERS RESPONSIBILITY.

NARRATIVE:

THE PROJECT CONSISTS OF CONSTRUCTING A NEW SCHOOL GYMNASIUM BUILDING OVER AN EXISTING PARKING LOT AREA, MODIFING THE EXISTING PARKING TO THE NORTH OF THE NEW BUILDING AND INSTALLING NEW PARKING TO THE SOUTH OF THE BUILDING.

SITE DATA:

PARCEL NUMBER: 2405160000001,000

SITE DATA:(AFFECTED AREA) 108716.8 Sq. Ft. (±2.496 AC)

LAND USE - (EXISTING):

		% OF TOTAL
ASPHALT.CONCRETE	39,583.8SQ.FT.	36.4%
GRASS/LANDSCAPE	69,133.0SQ.FT.	63.6%
	108,716.8SQ.FT.	100%

LAND USE - (NEW):

		% OF TOTAL
BUILDING	21,812.0SQ.FT.	20.1%
CONCRETE WALKS/PADS	8,001.3SQ.FT.	7.3%
ASPHALT/CONCRETE CURBS	39,537.7SQ.FT.	36.4%
LANDSCAPE AREA	39,365.7SQ.FT.	36.2%
	108,716.7SQ.FT.	100%

FLOOD ZONE:

X-UNSHADED PER PANEL NO. 01097C0395L,
DATED JUNE 5, 2020

LEGAL DESCRIPTION:

ALL OF SEC 16 T3S R3W LESS R/W OF MOFFAT RD, BLACKWELL NURSERY RD, PT OF LND INTO R/W OF SNOW RD & AND R/W OF ED GEORGE RD.

MANDATORY UTILITY TIE-IN NOTE:

CONTRACTOR SHALL UNCOVER AND VERIFY THE DEPTH OF ALL UTILITY TIE-IN POINTS PRIOR TO CONSTRUCTION AND ORDERING OF ANY MATERIALS. IF CONDITIONS ARE ENCOUNTERED DIFFERENT FROM DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY AND ADJUSTMENTS SHALL BE DETERMINED.

SHEET LIST:

C-0.1	CIVIL GENERAL NOTES
D-1.0	DEMOLITION PLANS
C-1.0	SITE PLANS
C-2.0	GRADING PLAN
C-2.1	DRAINAGE PLAN
C-3.0	EROSION CONTROL PLANS
C-3.1	EROSION CONTROL DETAILS
C-4.0	UTILITY PLANS
C-5.0	SECTIONS & DETAILS
C-5.1	SECTIONS & DETAILS
C-6.0	LANDSCAPING PLANS

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

CLARK | GEER | LATHAM
AND ASSOCIATES, INC.
3901 SPRING HILL AVENUE | MOBILE, AL 36608 | 251 344 7073

A NEW GYMNASIUM FOR
MARY G MONTGOMERY
4275 SNOW ROAD N
SEMMES, AL 36575

REV.	DATE	BY	DESCRIPTION

REVISION LOG

PROJECT NUMBER:	2629
DRAWN BY:	CDT
CHECKED BY:	CDT
ISSUE DATE:	8-19-26
BID SET	

ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

8-19-26

SHEET TITLE:
Civil General Notes

SHEET NUMBER:
C-0.1

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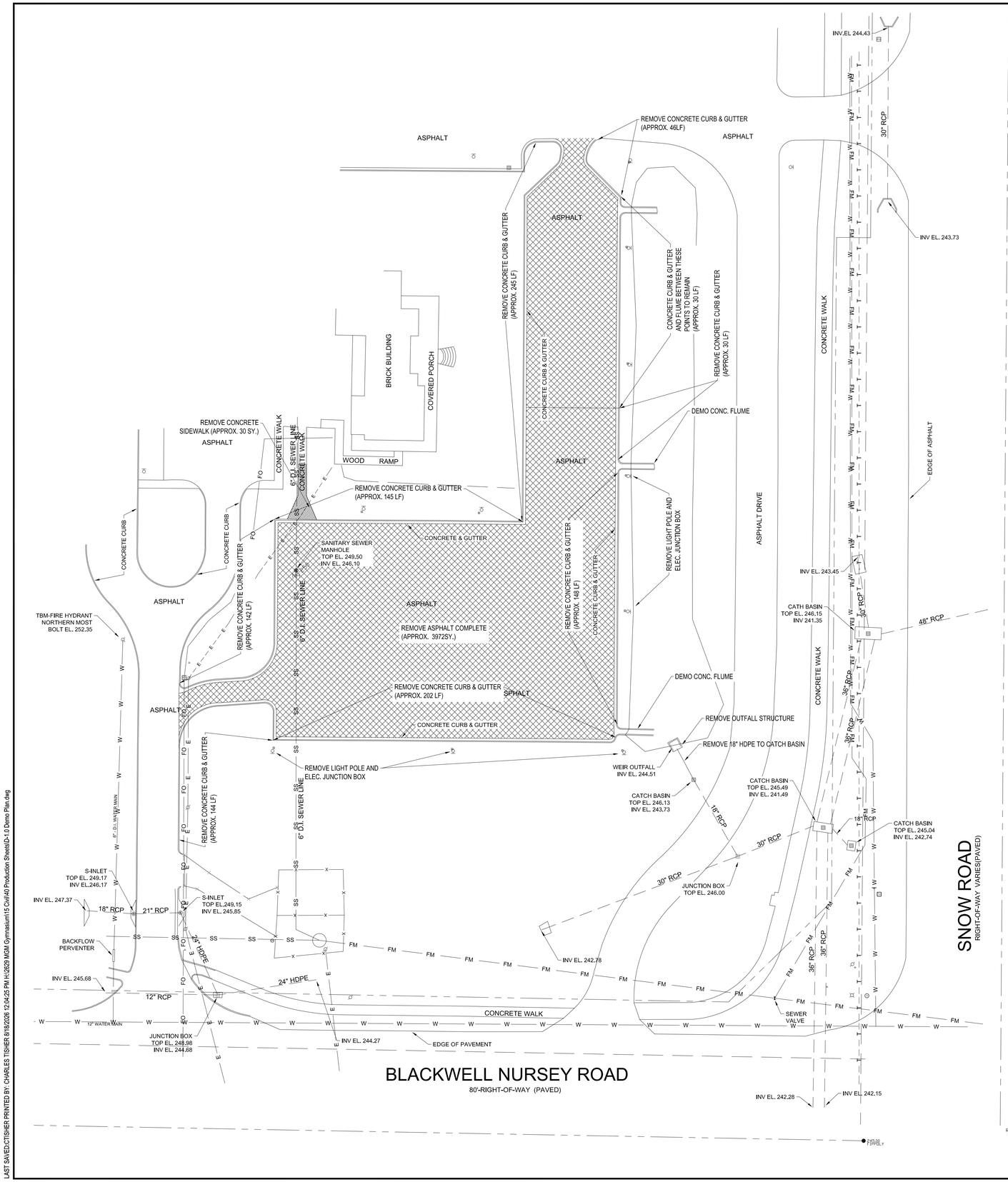

DEMO PLAN

SCALE: 1"=30'

0 15' 30' 60'

SCALE: 1" = 30'

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ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

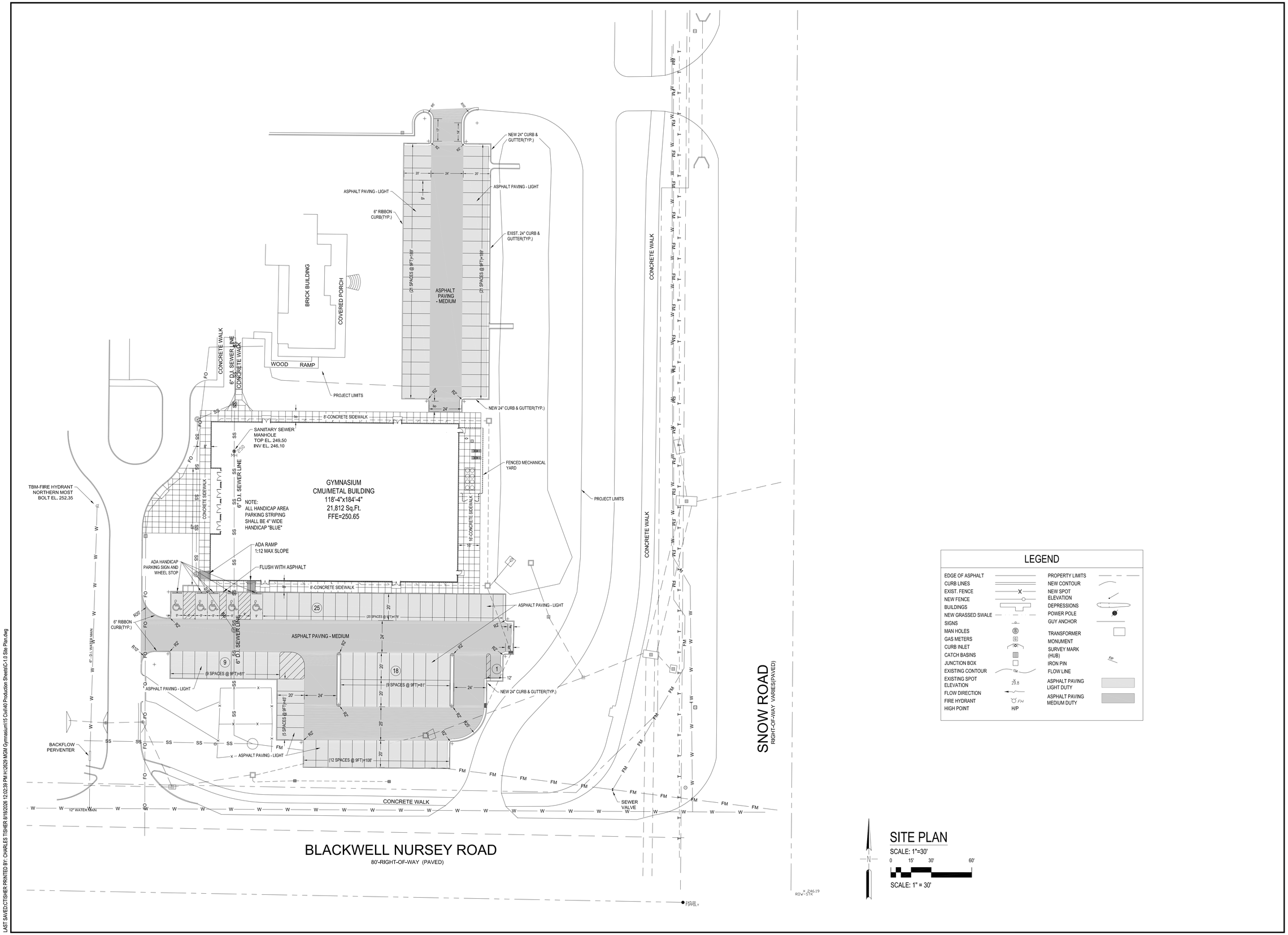
8-19-26

SHEET TITLE:

Demo Plan

SHEET NUMBER:

D-1.0



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A NEW GYMNASIUM FOR
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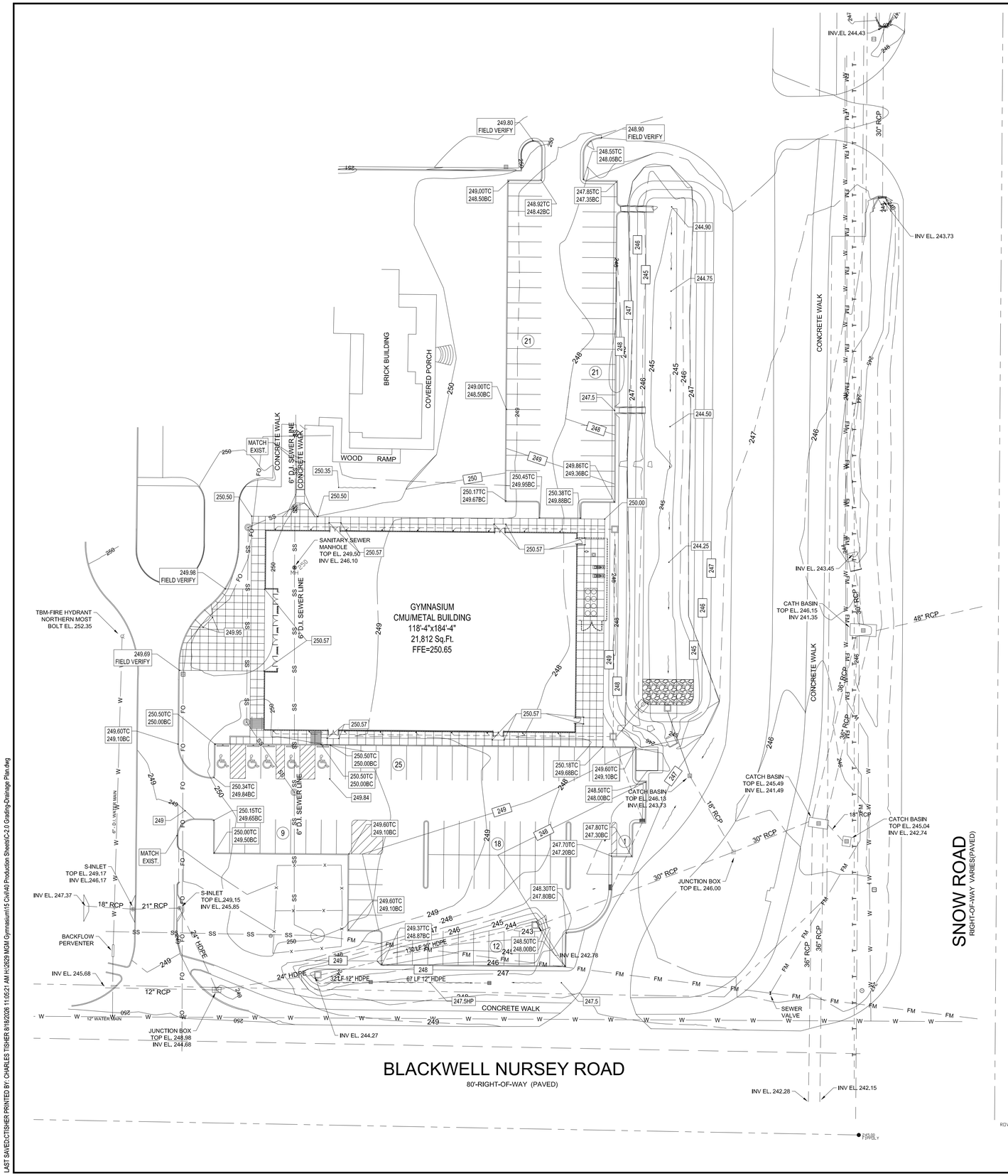
ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

8-19-26

SHEET TITLE:
Preliminary Site Plan

SHEET NUMBER:
C-1.0



GRADING PLAN

SCALE: 1"=30'

0 15' 30' 60'

SCALE: 1" = 30'

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A NEW GYMNASIUM FOR
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REV.	DATE	BY	DESCRIPTION
			REVISION LOG

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BID SET	

ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

8-19-26

SHEET TITLE:
GRADING PLAN

SHEET NUMBER:
C-2.0

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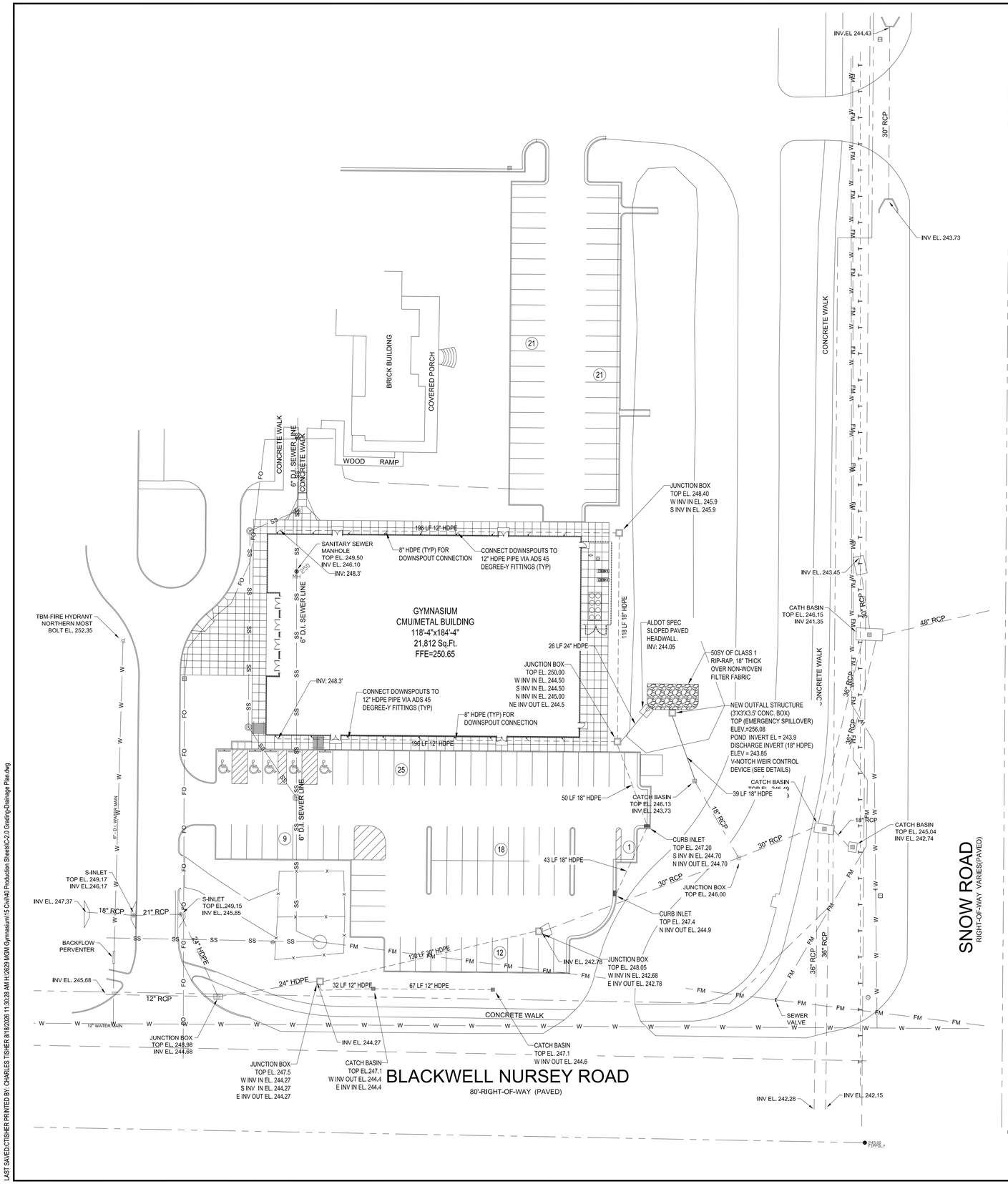
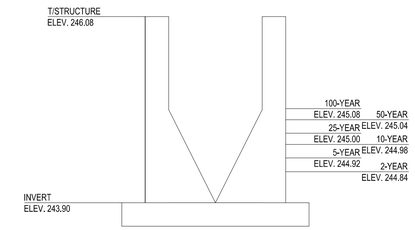


STORM WATER PIPING PLAN

SCALE: 1"=30'

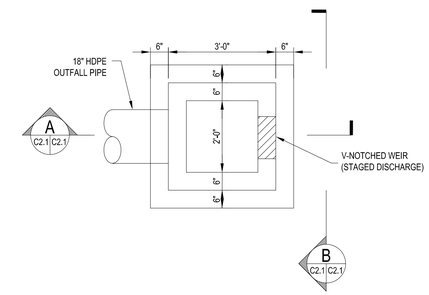
0 15' 30' 60'

SCALE: 1" = 30'



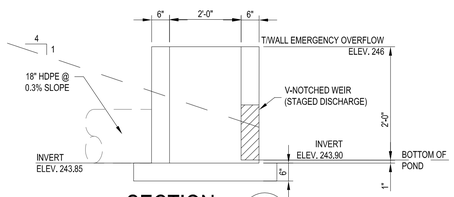
STAGED STORAGE DETAIL

SCALE: NTS



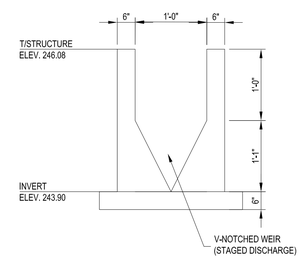
CONCRETE OUTFALL STRUCTURE

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



SECTION A

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



SECTION B

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

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ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

8-19-26

SHEET TITLE:
STORM WATER PIPING PLAN

SHEET NUMBER:
C-2.1

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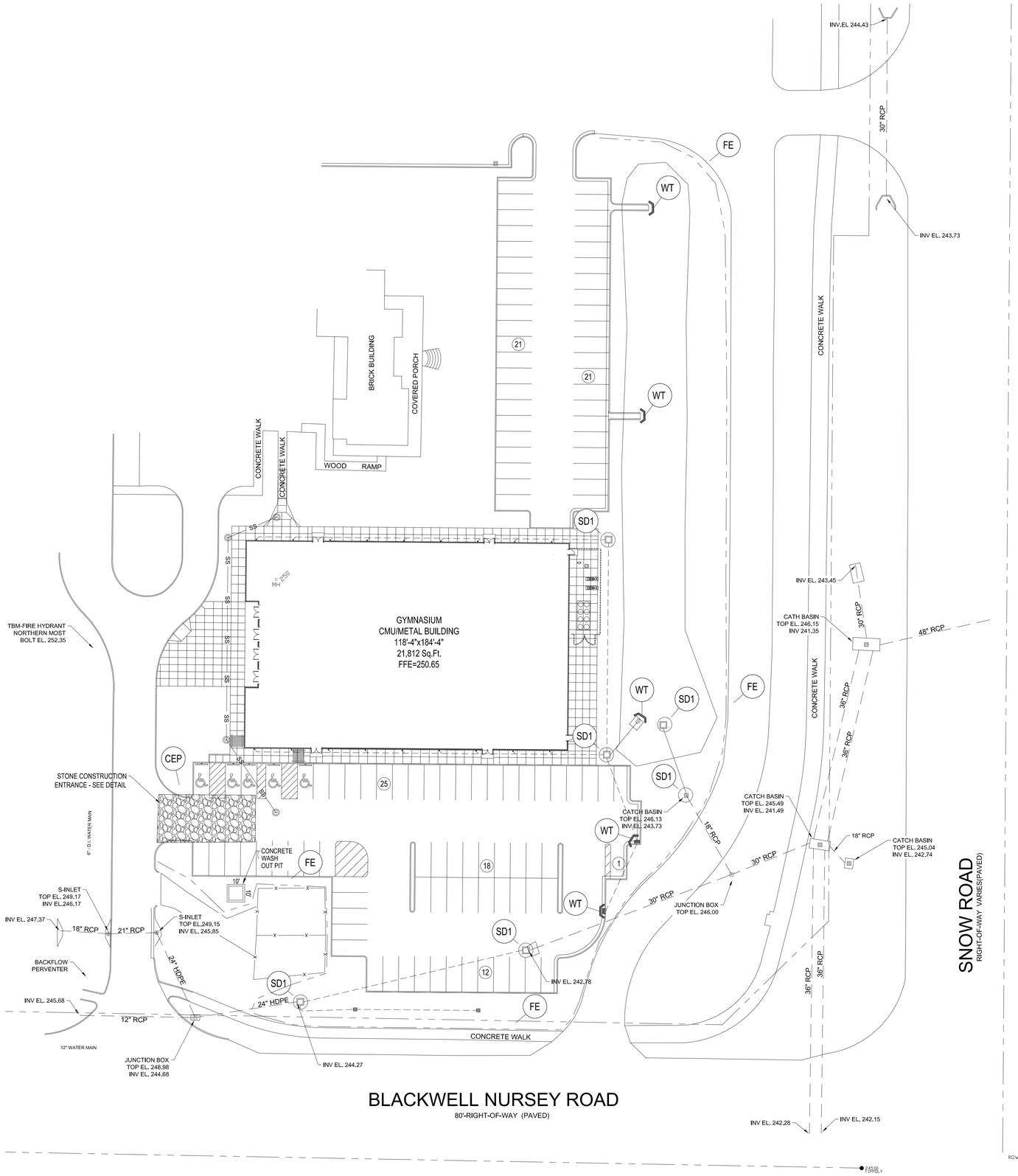

SOIL EROSION AND SEDIMENTATION CONTROL PLAN:

A. GENERAL STATEMENT:
THE PROJECT COVERS THE DEVELOPMENT OF APPROX. 2.496 AC OF EXISTING ASPHALT PARKING LOT, DRIVEWAY AND DENTION AREA. THE PURPOSE THE PROJECT CONSISTS OF CONSTRUCTING A NEW GYMNASIUM AND ADDITIONAL PARKING.
1. A STORMWATER MANAGEMENT PLAN HAS BEEN DEVELOPED AND IS INCLUDED IN THE PROJECT DRAWINGS.
2. SEDIMENTATION SHALL BE CONTROLLED BY INSTALLATION OF WATTLES, SILT FENCING AND/OR GEOTEXTILE MATERIAL. TEMPORARY SEEDING SHALL BE APPLIED AS REQUIRED.

B. TOPOGRAPHY:
1. THE LOCATION, CONTOURS, PROPERTY LINES, ACREAGE AND ALL OTHER PHYSICAL FEATURES OF THE SITE ARE SHOWN ON THE PROJECT PLANS.

C. SOIL INFORMATION:
1. REFER TO GEOTECHNICAL REPORT PRODUCED BY SOUTHERN EARTH SCIENCES.

D. PROPOSED GRADES:
1. AS SHOWN ON GRADING PLAN.

E. TEMPORARY MEASURES:
1. SILT FENCE, WATTLES, AND SOLID SOD SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED TO SLOW RUNOFF FROM DRAIN PIPES AND EXPOSED EMBANKMENTS TO PREVENT SEDIMENTATION FROM ACCUMULATING ON ADJACENT PROPERTIES AND WATERWAYS.

F. PERMANENT MEASURES:
1. ALL DISTURBED AREAS SHALL BE SOLID SOD OR AS OTHERWISE NOTED ON PLANS.

G. MAINTENANCE:
1. ALL DISTURBED SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED FOR DAMAGE DAILY AND AFTER EACH STORM BY THE CONTRACTOR. ALL FACILITIES THAT ARE DAMAGED, CLOGGED OR OTHERWISE ADVERSELY AFFECTED SHALL BE REPAIRED OR REPLACED AS REQUIRED AT NO COST TO THE OWNER.

CONTROL FACILITY MAINTENANCE PROGRAM:

A. THE SEDIMENT COLLECTED AT THE CONTROL FACILITIES SHALL BE REMOVED AFTER EACH RAINFALL AT A MINIMUM. THE SEDIMENT SHALL BE REDISTRIBUTED AROUND THE CONSTRUCTION SITE BY THE CONTRACTOR.

B. ALL CONTROL FACILITIES SHALL BE MAINTAINED AS SPECIFIED BY ADEM AND AS OUTLINED BELOW:

1. TEMPORARY MULCH: PROPERLY MAINTAIN MULCHED AREAS UNTIL THE ENTIRE PROJECT HAS BEEN COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED OR LOST DUE TO WIND, RAIN, FIRE OR OTHER CAUSES, AT INITIAL OR MODIFIED RATES AS DIRECTED. AFTER MULCHING WORK ON A SLOPE HAS BEEN SATISFACTORILY COMPLETED, IF A SLOPE FAILURE OCCURS, ONE WHICH REQUIRES REDRESSING, EXCAVATION, OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE THE MULCH, AS DIRECTED.
2. SILT FENCE: INSPECTED AFTER EVERY PRECIPITATION EVENT. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE FUNCTIONAL. IN ALL CASES REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 3" ABOVE THE NATURAL GROUND HEIGHT AT THE FENCE. ALL UNDERCUTTING OR EROSION OF THE TOE ANCHOR SHALL BE REPAIRED IMMEDIATELY WITH COMPACTED BACKFILL MATERIALS. ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING FILTER FABRIC FENCE DUE TO WEATHERING.
3. CONSTRUCTION ENTRANCE: THE CONTRACTOR SHALL INSTALL 5" OF STONE AT THE CONSTRUCTION ENTRANCE. STONE THAT FAILS SHALL BE COVERED WITH ADDITIONAL STONE TO PREVENT SEDIMENTATION FROM LEAVING THE SITE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF ROADWAY WITH WATER IS NOT PERMITTED.

a. ANY CONTROL STRUCTURE DISTURBED DURING DAILY OPERATIONS SHALL BE REPAIRED, REPLACED OR RECONSTRUCTED AS REQUIRED UPON COMPLETION OF THE WORK DAY.
b. STONE MATERIAL USED IN THE CONSTRUCTION ENTRANCE SHALL BE ADDED AS NECESSARY, TO MAINTAIN REQ'D. THICKNESS, WEEKLY.
c. ALL CONTROL FACILITIES SHALL REMAIN IN PLACE AND BE MAINTAINED. AREAS DISTURBED DURING REMOVAL OF THE E&S CONTROL STRUCTURES SHALL BE STABILIZED IMMEDIATELY FOLLOWING THE REMOVAL.
d. THE CONTRACTOR WILL BE RESPONSIBLE DURING CONSTRUCTION AND FOR ONE YEAR COMMENCING UPON SUBSTANTIAL COMPLETION FOR ENSURING THE SITE IS FULLY STABILIZED & MAINTAINING THE E&S MEASURES TO INSURE COMPLIANCE WITH THE APPROVED PLAN AND THE APPLICABLE REGULATIONS OF ADEM.
e. THE OWNER SHALL BE RESPONSIBLE FOR THE PERMANENT CONTROL OF EROSION AND SEDIMENT FOLLOWING THE WARRANTY TIME AND THE FINAL SITE STABILIZATION, INCLUDING STABILIZED GRASSING.
f. ALL CONSTRUCTION DEBRIS SHALL BE PLACED IN APPROPRIATE CONTAINER AND DISPOSED OF REGULARLY AND IN A LEGAL MANNER. GARBAGE SHALL BE COLLECTED IN SEPARATE CONTAINERS AND DISPOSED OF WEEKLY AND IN A LEGAL MANNER.
g. CONTRACTOR SHALL PROVIDE TEMPORARY SANITATION FACILITIES ON SITE FOR ALL CONSTRUCTION PERSONNEL. THESE FACILITIES SHALL BE PROPERLY MAINTAINED.

EROSION AND SEDIMENT POLLUTION CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 13 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREA WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF 2.5 TO 3 TONS PER ACRE.
3. PERMANENT VEGETATION SHALL BE SODDED ON ALL EXPOSED AREAS WITHIN 7 TO 10 DAYS AFTER FINAL GRADING. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ADEM.
4. STABILIZE WITH PERMANENT SEEDING REQUIREMENTS AND MULCH IF SEASON AND WEATHER PERMITS, IF BEYOND THE ESTABLISHED SEEDING DATES. PROVIDE TEMPORARY STABILIZATION BY APPLYING STRAW MULCH AT A RATE OF 3 TONS PER ACRE. ANY STEEP SLOPES (GREATER THAN 3:1) SHALL BE STABILIZED DAILY.
5. PROPOSED JUNCTION BOXES & CATCH BASINS ON SITE, WITHIN THE LIMITS OF CONSTRUCTION, MUST HAVE SD 1 TEMPORARY SEDIMENT BARRIER UNTIL PERMANENT MANHOLE IS IN PLACE.

EROSION CONTROL PLAN

SCALE: 1"=30'

0 15' 30' 60'

SCALE: 1" = 30'

LEGEND - SEE SHT. C-3.1

- FE — TYPE A SILT FENCE
- SD1 — TEMPORARY SEDIMENT BARRIER
- WT — WATTLE
- CEP — CONSTRUCTION ENTRANCE PAD

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A NEW GYMNASIUM FOR
MARY G MONTGOMERY
4275 SNOW ROAD N
SEMMES, AL 36575

REV.	DATE	BY	DESCRIPTION

REVISION LOG

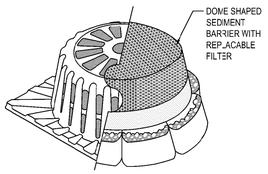
PROJECT NUMBER:	2629
DRAWN BY:	DSC
CHECKED BY:	CDT
ISSUE DATE:	8-19-26
BID SET	

ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER
8-19-26

SHEET TITLE:
EROSION CONTROL PLAN

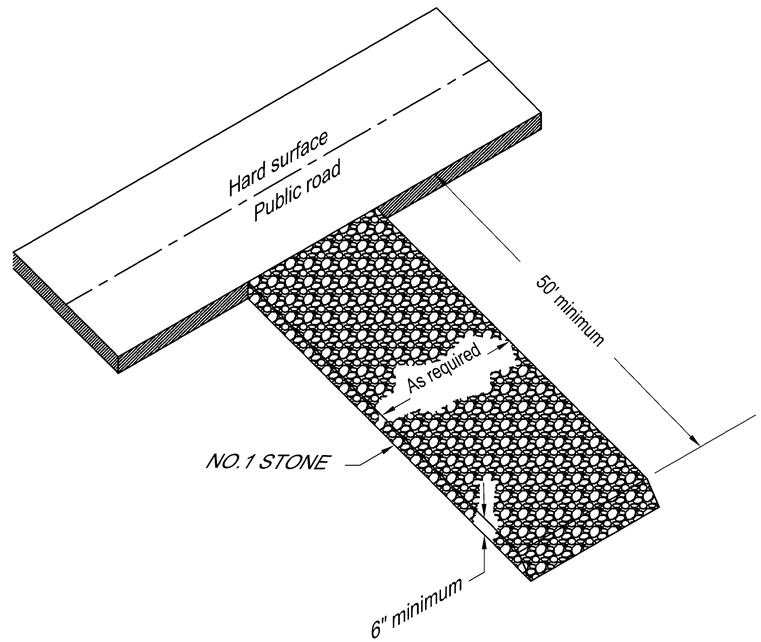
SHEET NUMBER:
C-3.0

LAST SAVED:SLATHAM PRINTED BY: CHARLES TISHER 8/18/2026 12:08:38 PM H:\2629 MGM Gymnasium\15 Civil\40 Production Sheets\C-3.0 Erosion Control Plan.dwg



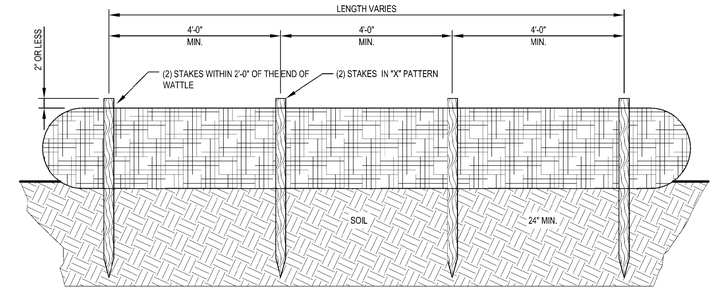
TEMPORARY SEDIMENT BARRIER (SD1)

SCALE: NONE



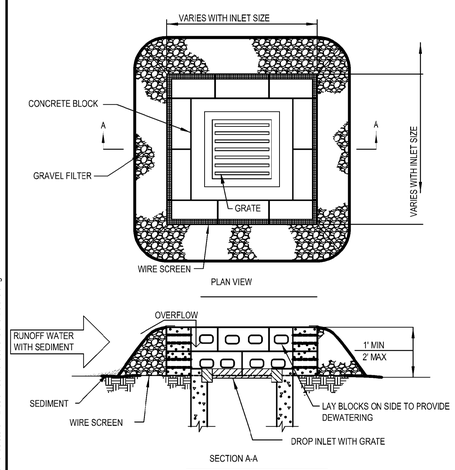
CONSTRUCTION ENTRANCE PAD (CEP)

NTS



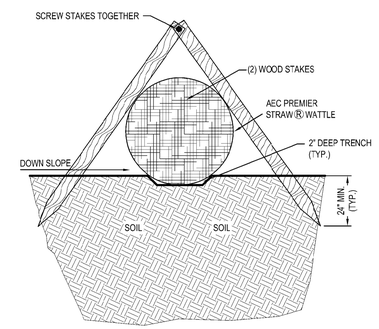
WATTLE - STAKING PATTERN GUIDE (WT)

SCALE: NONE



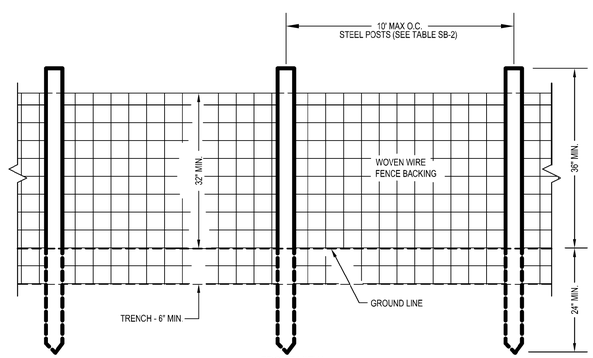
TEMPORARY SEDIMENT BARRIER (SD1)

NOT TO SCALE

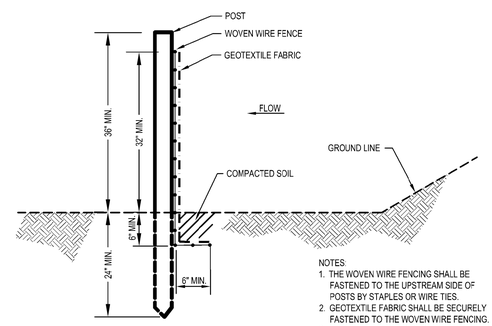


WATTLE - CROSS SECTION ON BARE SOIL (WT)

SCALE: NONE



FRONT VIEW
(NOT TO SCALE)

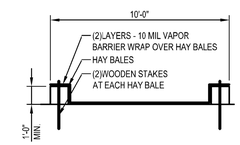


SIDE VIEW
(NOT TO SCALE)

NOTES:
1. THE WOVEN WIRE FENCING SHALL BE FASTENED TO THE UPSTREAM SIDE OF POSTS BY STAPLES OR WIRE TIES.
2. GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO THE WOVEN WIRE FENCING.
3. MACHINE TRENCHED GEOTEXTILE SHALL BE TRENCHED VERTICAL AT LEAST 8" DEEP.

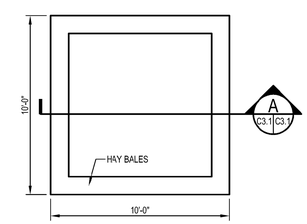
SILT FENCE - TYPE A (FE)

SCALE: NONE



SECTION (A / C3.1 | C3.1)

SCALE: NONE



CONCRETE WASH OUT PIT

SCALE: NONE

NOTES:
AFTER WASH DOWN AND WASH WATER HAS EVAPORATED OR VACUUMED OFF, REMOVE HARDEN SOLIDS FROM PIT TO OFF SITE. IF LINER IS DAMAGED, REPAIR OR REPLACE LINER AS REQUIRED FOR NEXT USE:

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A NEW GYMNASIUM FOR
MARY G MONTGOMERY
4275 SNOW ROAD N
SEMMES, AL 36575

REV.	DATE	BY	DESCRIPTION

REVISION LOG

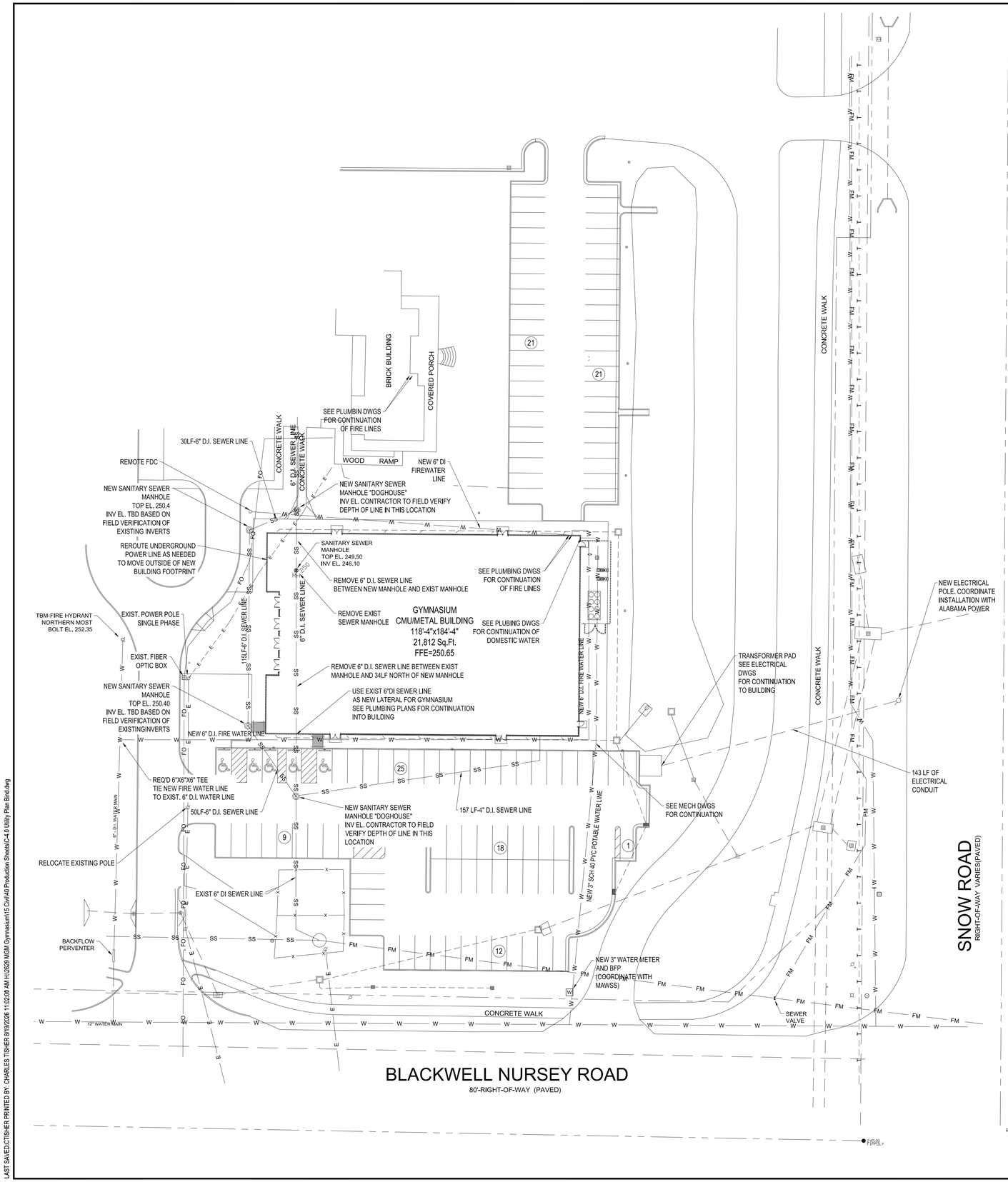
PROJECT NUMBER:	2629
DRAWN BY:	DSC
CHECKED BY:	CDT
ISSUE DATE:	8-19-26
BID SET	

ALABAMA LICENSED No. 38953-E PROFESSIONAL ENGINEER CHARLES D TISHER
8-19-26

SHEET TITLE:
EROSION CONTROL SECTIONS & DETAILS

SHEET NUMBER:
C-3.1

LAST SAVED:SLATHAM PRINTED BY: CHARLES TISHER 8/18/2026 12:21:33 PM H:\2629 MGM Gymnasium\15 Civil\40 Production Sheets\C-3.1 Erosion Control Sections and Details.dwg



POWER NOTE:

COORDINATE NEW POWER SERVICE WITH ALABAMA POWER FOR LOCATION OF ANY POLES/TRANSFORMERS AND ALL POWER LINES.

UTILITY PLAN

SCALE: 1"=30'

0 15' 30' 60'

SCALE: 1" = 30'

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BID SET	

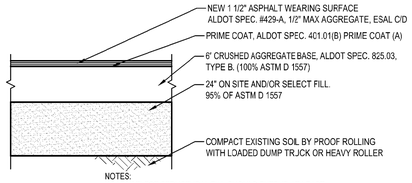
ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

8-19-26

SHEET TITLE: Utility Plan

SHEET NUMBER: C-4.0

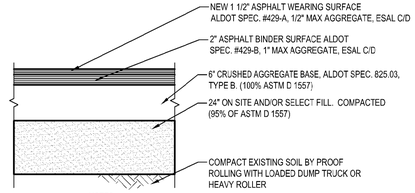
LAST SAVED:CTISHER PRINTED BY: CHARLES TISHER 8/19/2026 11:02:09 AM H:\2629 MGM Gymnasium\15 Civil\40 Production Sheets\C-4.0 Utility Plan Bid.dwg



NOTES:
1. SELECT STRUCTURAL FILL SHOULD EXTEND AT LEAST TWO FEET BEYOND EDGE OF PAVEMENT.
2. CRUSHED AGGREGATE BSE SHOULD EXTEND AT LEAST ONE FOOT BEYOND EDGE OF PAVEMENT AREA.

SECTION - ASPHALT PAVING - LIGHT DUTY

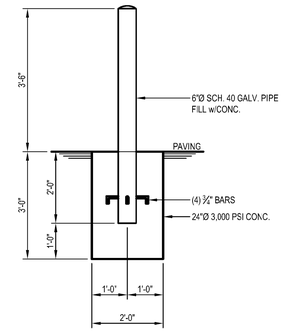
SCALE: NONE



NOTES:
1. SELECT STRUCTURAL FILL SHOULD EXTEND AT LEAST TWO FEET BEYOND EDGE OF PAVEMENT.
2. CRUSHED AGGREGATE BSE SHOULD EXTEND AT LEAST ONE FOOT BEYOND EDGE OF PAVEMENT AREA.

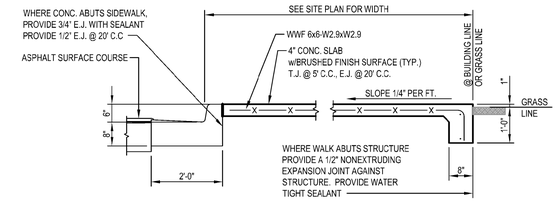
SECTION - ASPHALT PAVING - MEDIUM DUTY

SCALE: NONE



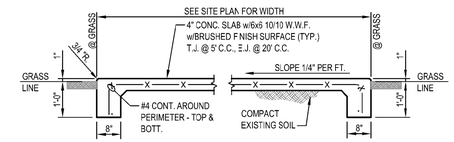
TYP. 6" BOLLARD DETAIL

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



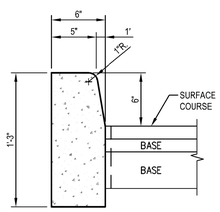
BRUSHED CONCRETE WALK SECTION - AT CURB AND GUTTER

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



BRUSHED CONCRETE WALK SECTION - TYPE I

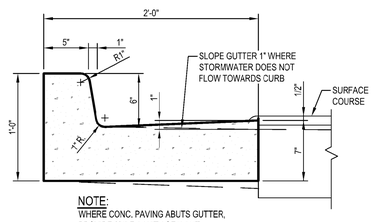
SCALE: 1/2"=1'-0"



NOTES:
WHERE CONCRETE PAVING ABUTS CURB,
PROVIDE 3/4" EXPANSION JOINT w/SEALANT.
PROVIDE C.J. @ 5' C.C & 1/2" E.J. @ 20' C.C.

RIBBON CURB SECTION

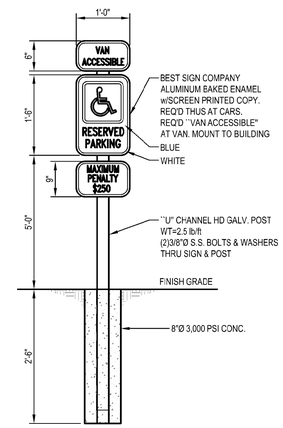
SCALE: 1 1/2"=1'-0"



NOTE:
WHERE CONC. PAVING ABUTS GUTTER,
PROVIDE 3/4" E.J. WITH SEALANT
PROVIDE 1/2" E.J. @ 20' C.C

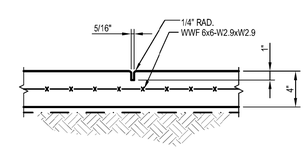
CONCRETE CURB & GUTTER DETAIL

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



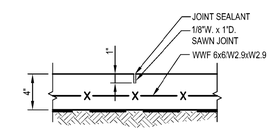
HANDICAP PARKING SIGN

SCALE: NONE



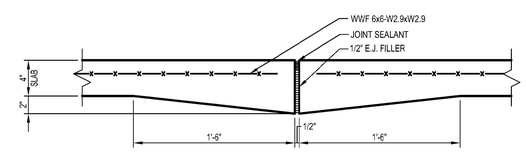
DETAIL - TOOL JOINT (TJ)

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



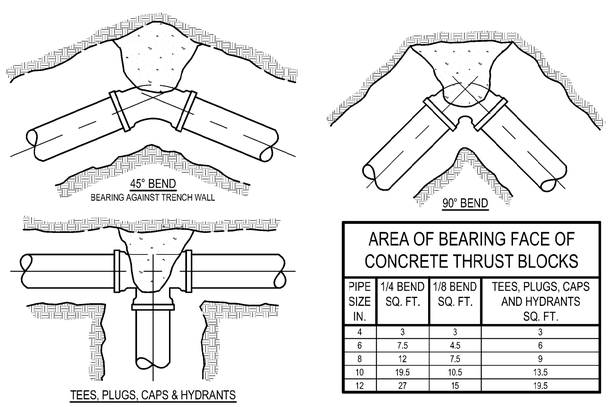
DETAIL - SAWN JOINT (SJ)

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



DETAIL - EXPANSION JOINT (EJ)

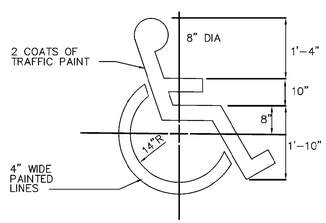
SCALE: 1 1/2"=1'-0"



AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS			
PIPE SIZE IN.	1/4 BEND SQ. FT.	1/8 BEND SQ. FT.	TEES, PLUGS, CAPS AND HYDRANTS SQ. FT.
4	3	3	3
6	7.5	4.5	6
8	12	7.5	9
10	19.5	10.5	13.5
12	27	15	19.5

THRUST BLOCK DETAIL

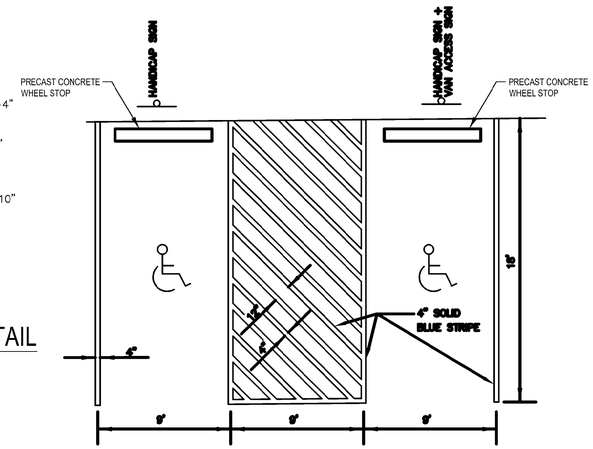
SCALE: NONE



HANDICAP SYMBOL
NTS

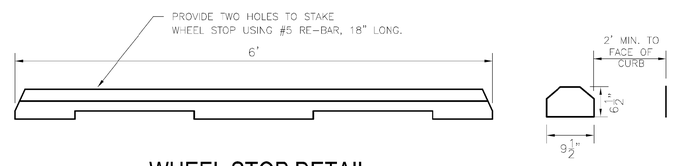
HANDICAP SYMBOL DETAIL

SCALE: NOT TO SCALE



HANDICAPPED PARKING STRIPING DETAIL

NOTES:
1. ALL PAINTED LINES SHALL BE BLUE UNLESS OTHERWISE NOTED.
2. PARKING SPACE
3. CROSS HATCHING IN ACCESS AISLE SHALL BE 4" WIDE SOLID BLUE LINES.
4. ONE OF EVERY 8 HANDICAP SPACES SHALL BE VAN ACCESSIBLE.
5. A SEPARATE SIGN SHALL BE PROVIDED FOR EACH HANDICAP



WHEEL STOP DETAIL

SCALE: NOT TO SCALE

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ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER
8-19-26

SHEET TITLE:
SECTIONS & DETAILS

SHEET NUMBER:
C-5.0

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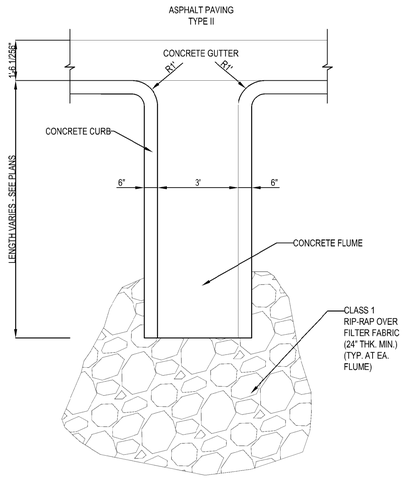
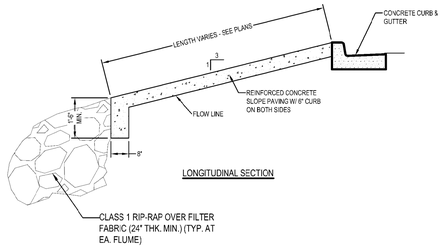


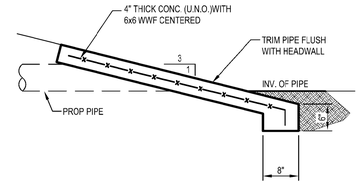
PLAN VIEW

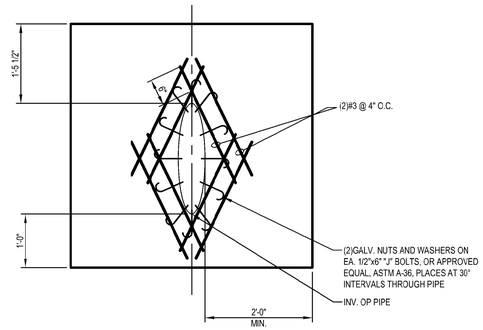


LONGITUDINAL SECTION

CONCRETE DRAINAGE FLUME

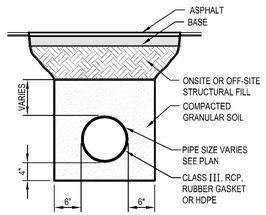
SCALE: 3/8"=1'-0"





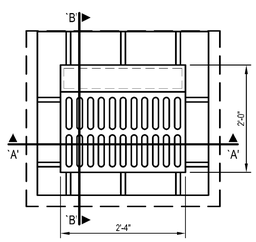
SLOPED CONC. HEADWALL

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

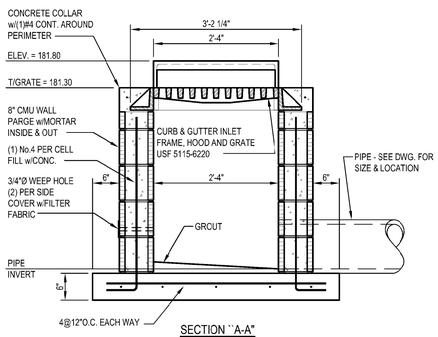


PIPE BEDDING DETAIL

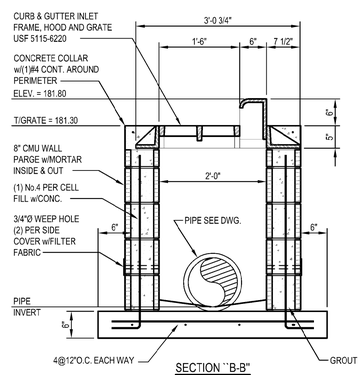
SCALE: 3/4"=1'-0"



PLAN VIEW



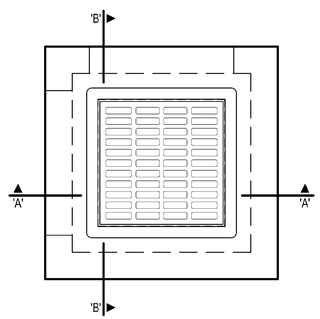
SECTION ``A-A"



SECTION ``B-B"

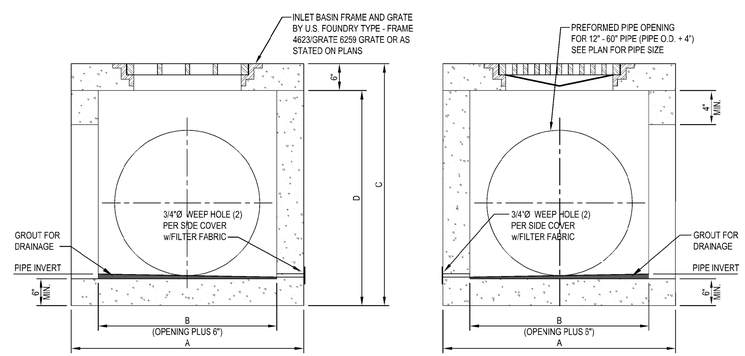
GRATE INLET (GI) DETAIL

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



NOTES:

1. CONTRACTOR SHALL VERIFY THAT FRAMES BEAR ON WALLS WITH CATCH BASIN AND PIPE SIZE PRIOR TO CONSTRUCTION. IF FRAMES DO NOT BEAR ON WALLS, THEN THE CONTRACTOR SHALL SUBMIT NEW PROPOSED LID PLAN AND DETAIL FOR APPROVAL, SHOWING THAT THE LID AND GRATE CAN HANDLE THE PROPER AHS-10 AND HS-20 WHEEL LOADING, AT NO COST TO THE OWNER.
2. IF USED FOR JUNCTION BOX, PROVIDE SOLID MANHOLE COVER HAVING A MINIMUM OPENING OF 24" DIA.
3. 4,000 PSI CONCRETE, GRADE 60 REINFORCEMENT, MINIMUM 2" CONCRETE COVER ON REBAR.
4. ALL PICK UP POINTS AND PIPE OPENINGS TO BE GROUTED BY CONTRACTOR WITH ENGINEER APPROVED NON-SHRINK GROUT.
5. JOINT SEALANT: 1 1/4" CONCEAL SEALANT BUTYL RUBBER SS-S-00210 OR EQUIVALENT.
6. PROVIDE CAST IRON STEPS ON CATCH BASINS & CONC. INLET STRUCTURES GREATER THAN 3'-6" DEEP.
7. FLOOR THICKNESS TO BE AS REQUIRED FOR BEARING BUT NOT LESS THAN 6" THK. WALL THICKNESS TO BE AS REQUIRED FOR DEPTH BUT NOT LESS THAN 6" THK.



TYPICAL CATCH BASIN OR JUNCTION BOX DETAIL (PRE-CAST)

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

CLARK | GEER | LATHAM
AND ASSOCIATES, INC.
3901 SPRING HILL AVENUE | MOBILE, AL 36608 | 251.344.7073

A NEW GYMNASIUM FOR
MARY G MONTGOMERY
4275 SNOW ROAD N
SEMMES, AL 36575

REV	DATE	BY	DESCRIPTION

REVISION LOG

PROJECT NUMBER:	2629
DRAWN BY:	DSC
CHECKED BY:	CDT
ISSUE DATE:	8-19-26
BID SET	

ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

8-19-26

SHEET TITLE:
SECTIONS & DETAILS

SHEET NUMBER:
C-5.1

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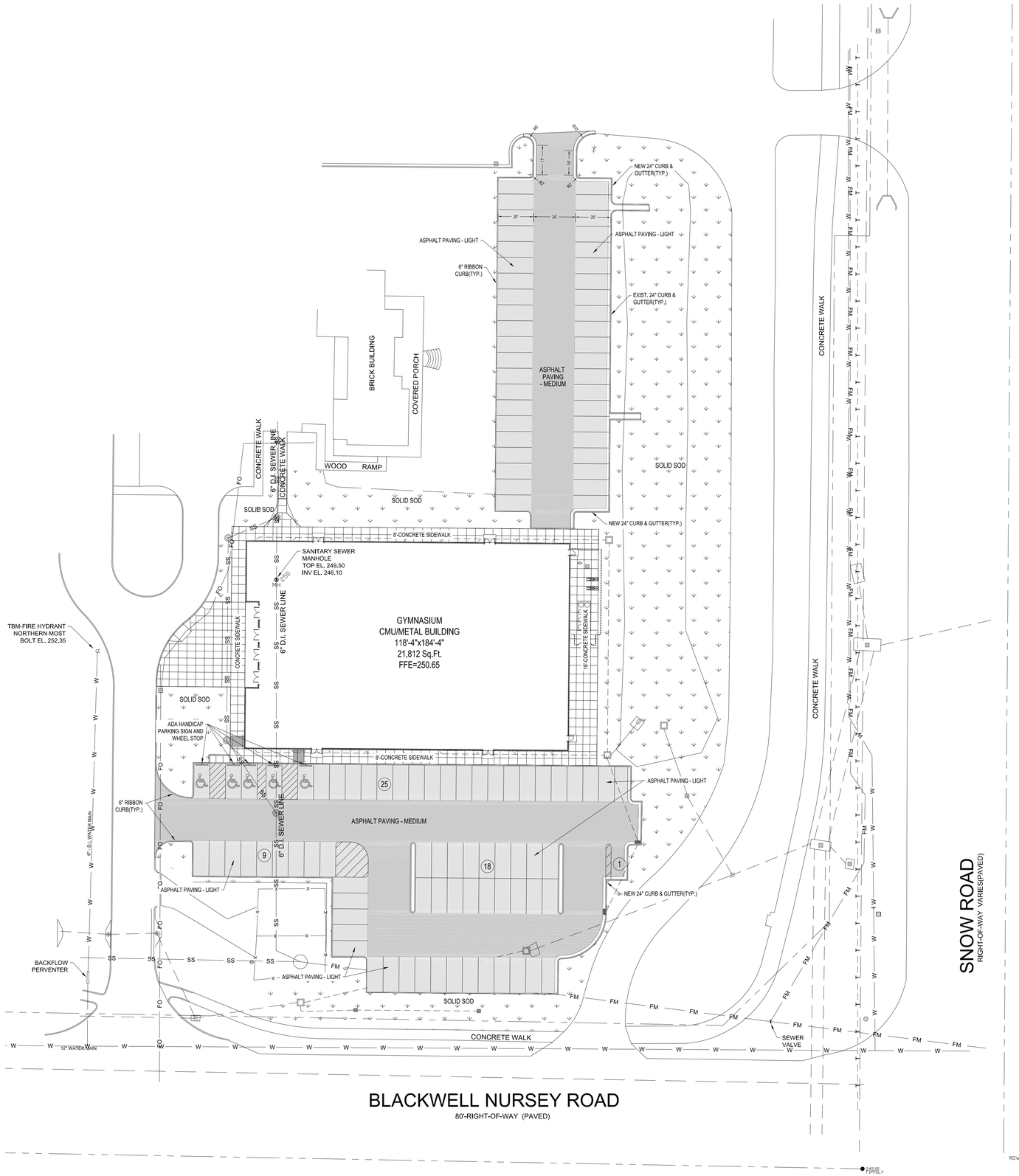

SITE DATA:

SITE DATA:(AFFECTED AREA)	108716.8 Sq. Ft. (±2.496 AC)	
LAND USE - (EXISTING):		
		% OF TOTAL
ASPHALT.CONCRETE	39,583.8SQ.FT.	36.4%
GRASS/LANDSCAPE	69,133.0SQ.FT.	63.6%
	108,716.8SQ.FT.	100%
LAND USE - (NEW):		
		% OF TOTAL
BUILDING	21,812.0SQ.FT.	20.1%
CONCRETE WALKS/PADS	8,001.3SQ.FT.	7.3%
ASPHALT/CONCRETE CURBS	39,537.7SQ.FT.	36.4%
LANDSCAPE AREA	39,365.7SQ.FT.	36.2%
	108,716.7SQ.FT.	100%

LEGEND

EDGE OF ASPHALT	PROPERTY LIMITS
CURB LINES	NEW CONTOUR
EXIST. FENCE	NEW SPOT ELEVATION
NEW FENCE	DEPRESSIONS
BUILDINGS	POWER POLE
NEW GRASSED SWALE	GUY ANCHOR
SIGNS	TRANSFORMER
MAN HOLES	MONUMENT
GAS METERS	SURVEY MARK (HUB)
CURB INLET	IRON PIN
CATCH BASINS	FLOW LINE
JUNCTION BOX	ASPHALT PAVING LIGHT DUTY
EXISTING CONTOUR	ASPHALT PAVING MEDIUM DUTY
EXISTING SPOT ELEVATION	SOLID SOD
FLOW DIRECTION	
FIRE HYDRANT	
HIGH POINT	

LANDSCAPE PLAN

SCALE: 1"=30'

0 15' 30' 60'

SCALE: 1" = 30'

CLARK | GEER | LATHAM
AND ASSOCIATES, INC.
3901 SPRING HILL AVENUE | MOBILE, AL 36608 | 251 344 7073

A NEW GYMNASIUM FOR
MARY G MONTGOMERY
4275 SNOW ROAD N
SEMMES, AL 36575

REV/	DATE	BY	DESCRIPTION

REVISION LOG

PROJECT NUMBER:	2629
DRAWN BY:	CDT
CHECKED BY:	CDT
ISSUE DATE:	8-19-26
BID SET	

ALABAMA LICENSED No. 38952-E PROFESSIONAL ENGINEER CHARLES D TISHER

8-19-26

SHEET TITLE:
Landscape Plan

SHEET NUMBER:
C-6.0

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GENERAL NOTES

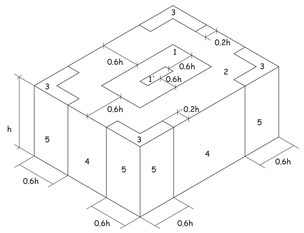
1. Contractor shall compare Structural drawings and Architectural drawings. Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or Engineer before bidding.
2. Structural drawings or parts of the structural drawings may not be used as shop drawings without prior written approval.
3. Contractor proposed changes to details must be clearly noted on the first sheet of all shop drawings.
4. Construction shown is stable after the building is complete including interior and exterior finishes. The Contractor is responsible for temporary bracing of the structure during construction.
5. Intersections of new and old construction illustrate interpretations of drawings on previous projects. Before starting any construction, verify all existing conditions.
6. Site visits by Engineer of Record are not considered inspections or special inspections, rather are observations for general compliance with contract documents.
7. Design contract is for design of foundations only. No PEMB reactions were provided at the time of foundation design. Foundation design is based on assumed PEMB reactions. Design to be verified once PEMB reactions are supplied. Any changes in foundation design as a result of the supplied PEMB reactions will not result in any additional cost to the owner. No other design or analysis of the PEMB or its structural components has been made. Barnett/Jones/Wilson, LLC has no control or responsibility for the entire building and therefore is not the structural engineer of record for the metal building elements.
8. Electronic submittal of shop drawings is required. Review of submittal information shall be for general conformance with the contract documents and shall not include checking of detailed dimensions or detailed quantities.

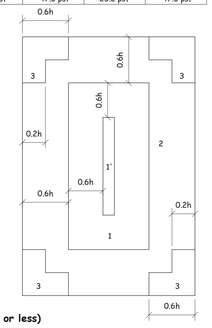
DESIGN LOADS

1. Reference code for loading — IBC 2018 & ASCE/SEI 7-16
   - A. Building Classification — III
   - B. Wind Load
     - a. Basic Wind Speed (3 sec gust) — 162 mph
     - b. Wind Exposure — C
     - c. Internal Pressure Coefficient — +/- 0.18
     - d. Velocity Pressure (q_z) — 48.54 psf
     - e. Components & Cladding Pressures — See table and diagram
       - Service Level loads provided
       - Take minimum Dead Load as 20 psf
       - h = 32'-3"
       - a = 12'-11"
   - C. Roof Snow Load
     - a. Flat Roof Snow Load (P_f) — 0 psf
   - D. Seismic Load
     - a. Importance Factor — 1.25
     - b. Mapped Spectral Response Accelerations
       1. S_S — 0.098
       2. S_1 — 0.062
     - c. Site Class — D
     - d. Spectral Response Coefficients
       1. S_{DS} — 0.104
       2. S_{D1} — 0.099
     - e. Seismic Design Category — B
   - E. Live Load
     - a. Roof — 20 psf
     - b. Slabs on grade — 100 psf
     - c. Mechanical Mezzanine — 100 psf
     - d. Stairs and exitways — 100 psf

Components & Cladding Wind Loads - Roofs Sloped 7° or Less

Area	Zone 1 (+)	Zone 1 (-)	Zone 1' (+)	Zone 1' (-)	Zone 2 (+)	Zone 2 (-)	Zone 3 (+)	Zone 3 (-)	Zone 4 (+)	Zone 4 (-)	Zone 5 (+)	Zone 5 (-)
10 SF	16.0 psf	-91.3 psf	16.0 psf	-52.4 psf	16.0 psf	-120.4 psf	16.0 psf	-164.0 psf	39.8 psf	-62.1 psf	39.8 psf	-76.7 psf
20 SF	16.0 psf	-86.4 psf	16.0 psf	-52.4 psf	16.0 psf	-113.1 psf	16.0 psf	-147.1 psf	37.4 psf	-59.7 psf	37.4 psf	-71.8 psf
50 SF	16.0 psf	-76.7 psf	16.0 psf	-52.4 psf	16.0 psf	-103.4 psf	16.0 psf	-127.7 psf	34.0 psf	-55.8 psf	34.0 psf	-64.6 psf
100 SF	16.0 psf	-71.8 psf	16.0 psf	-52.4 psf	16.0 psf	-95.1 psf	16.0 psf	-113.1 psf	31.1 psf	-53.4 psf	31.1 psf	-59.7 psf
500 SF	16.0 psf	-57.3 psf	16.0 psf	-28.2 psf	16.0 psf	-76.7 psf	16.0 psf	-76.7 psf	25.2 psf	-47.6 psf	25.2 psf	-47.6 psf





Flat/Hip/Gable (7° or less)

FOUNDATIONS

1. Foundation design for this project was based on soils information provided by Southern Earth Sciences, Inc. project number M26-047.
2. Bearing value of soil: 2000psf
3. All footings are to bear on undisturbed soil or engineered fill as directed by the geotechnical report.
4. Foundation design is based on the GC fully following the site/soil work outlined in the geotechnical report.
5. Provide 8'-0" long top steel reinforcing, same size and spacing as bottom steel, at transitions between engineered fill and undisturbed soil locations.
6. Install corner bars at all footing intersections and corners (Provide lap length e.w.).
7. Step all footings where necessary to provide a minimum of 1'-6" below the finish grade or 0'-8" below finish floor.
8. Unless noted otherwise, footings extend 8" beyond end of CMU walls that do not terminate at corners.
9. All footing elevations are given to the top of the footings.
10. Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any concrete is placed.
11. Coordinate foundation elevations with plumbing requirements. Step footings down as required to clear plumbing lines.
12. Slabs on grade should be supported on 4" minimum compacted dense graded base material (ALDOT 825B, #8910, or equivalent), compacted to a minimum of 98% compaction and +/- 3% optimum moisture based on ASTM D698, unless noted otherwise in construction documents or geotechnical report.

REINFORCING STEEL AND CONCRETE

1. All concrete work is to be in accordance with the *Building Code Requirements for Structural Concrete* (*ACI* 318-19).
2. All detailing work is to be in accordance with the *ACI Detailing Manual* (MNL-66(20)).
3. Use of calcium chloride, chloride ions, or other salts in concrete are prohibited.
4. Concrete Properties: See schedule
   - A. All concrete must obtain 7 day strength of 70% of design strength.
   - B. Concrete mixes may replace cement with other cementitious materials; submit these for approval.
   - C. Concrete mixes may use water reducers, accelerators, or retarders with prior approval.
   - D. Do not provide air entrainment in concrete mixes for interior slabs.
5. All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete.
6. Welded wire fabric (WWF) shall be ASTM A185 and shall lap (2) cross wires or 6", whichever is greater on all sides. All laps shall be wired together.
7. Provide (2) #4 bars x 4'-0" at re-entrant corner locations TYP. Locate 3" away from corner and space 0'-6" apart.
8. All slabs on grade are 4" unless noted otherwise. Slabs are to be placed on 10 *Mil*, PVC vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W1.4xW1.4 WWF placed 1" from top of slab. Unless noted otherwise, slabs shall have joints placed at a maximum of 10'-0" o.c.. The aspect ratio of the joint layout should not exceed 1.5:1. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile.
9. Minimum concrete cover for reinforcement:
   - A. Footings — 3" bottom & sides, 2" top
   - B. Slabs on grade — 3/4"
   - C. Slabs on deck — 3/4"
   - D. Grade Beams, Cast-In-Place Walls, & Column Piers
     - a. Surfaces exposed to weather or soil — 2" - #6 and greater, 1-1/2" - #5 and smaller
     - b. Other surfaces — 3/4"
10. Provide corner bars at all wall and footing intersections.
11. Contractor shall include an allowance of (2) tons of reinforcing steel and (40) cubic yards of concrete in addition to the steel & concrete shown on the contract documents in the base bid. This material is to be acquired, detailed, fabricated, and placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused materials will be credited to the Owner.
12. No openings shall be allowed to penetrate any concrete work, unless it is shown on the structural framing plans, without prior written approval. Contractor shall submit for review locations of proposed openings not shown 30 days prior to pouring any concrete.
13. Do not run conduit or pipe in slabs or beams unless noted otherwise on the plans or specific prior approval from the Engineer.
14. Provide a continuous water bar at all wall construction joints below ground level.
15. Use 3/4" chamfer for all exposed corners unless noted otherwise.
16. Mechanical openings through the floor have not been shown on the Structural drawings. See Mechanical plans for size and location of openings. Reinforcing at opening will be coordinated at time of placement.
17. Contractor to provide PEMB reactions for footing verification before reinforcing steel shop drawings are submitted.

MASONRY

1. All masonry work to be in accordance with *Building Code Requirements and Specification for Masonry Structures* (TMS 402/602-16).
2. Fill all concrete masonry units with concrete or grout from the top of the footing to the finish floor or to 8" above finish grade, whichever is higher.
3. Use truss type joint reinforcement at 16" o.c. in all cavity walls where brick is used for one or more of the wythes.
4. All masonry to be laid in running bond pattern. "Wet" masonry is not permitted to be installed until it is dry.
5. Use Type "M" or "S" mortar in accordance with IBC Table 2103.2.1, unless noted or approved otherwise.
6. Minimum compressive strength of concrete masonry f'_m = 2000 psi in accordance with the unit strength method and TMS 402/602-16. Submit for review test data on strength of units before starting any masonry work.
7. Minimum compressive strength of grout f'_c = 2000 psi. Use 3/8" max size aggregate. See Special Inspection Schedule for any testing requirements. Grout slump shall be 8" to 11".
8. Use "Fine" grout for all reinforced piers and reinforced wall in accordance with ASTM C476.
9. Each grout lift shall not exceed 5'-0" unless cleanouts are provided in the bottom course.
10. Fill cells under all lintels with grout.
11. Provide lintels over all openings through wall. See lintel details for reinforcement.
12. Unless noted otherwise, provide control joints in all walls 4'-0" from wall intersections or corners and at 20'-0" o.c.
13. Provide continuous bond beam at 8'-0" o.c. vertical spacing and at top of wall, TYP.
14. Extend all horizontal steel and bond beams through control joints.
15. Vertical reinforcement shall extend into the bond beam and terminate with an ACI standard 90° degree hook.
16. Rebar positioners to be coordinated during submittals and used unless approved otherwise.
17. Unless noted, all vertical bars are to be located at the center of cell. Where bars are specified at each face, provide 3/4" clear space between reinforcement and CMU face shell.
18. Anchor bolt into grouted cell locations only, unless noted otherwise.
19. Non-load bearing interior CMU walls shall be reinforced #4 bars in fully grouted cells @ 48" o.c. Provide Bond Beam at top of wall and every 8'-0" o.c. vertically. Brace top of wall per typical details.
20. Owner requires all mechanical rooms to have fully grouted block walls.

STRUCTURAL STEEL

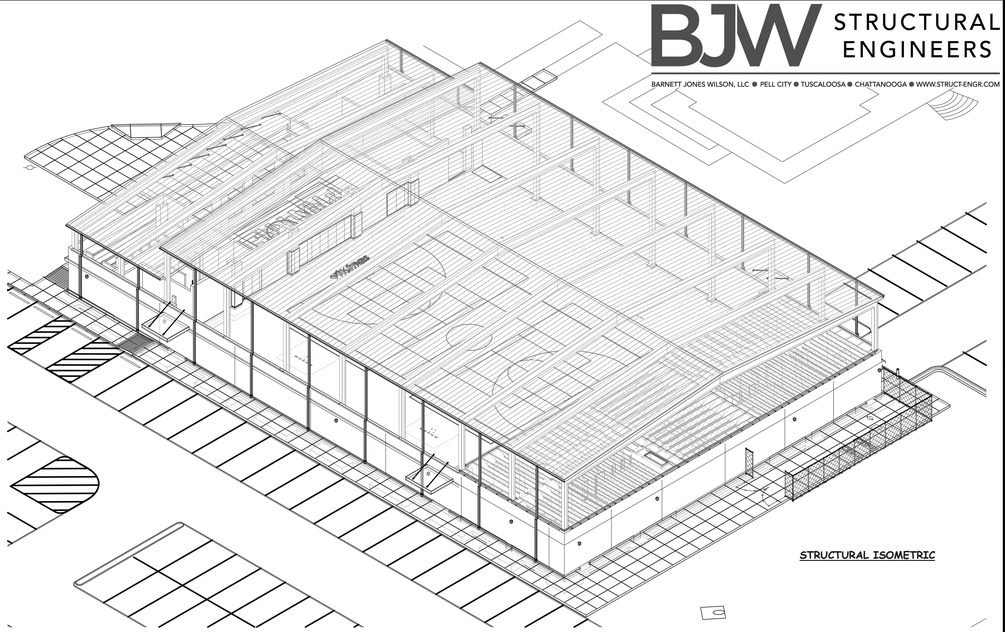
1. All structural steel work to be in accordance with the *Specification for Structural Steel Buildings* (ANSI/AISC 360-16) and the *Structural Welding Code - Steel* (AWS D1.1).
2. All seismic force-resisting systems work to be in accordance with the *Seismic Provisions for Structural Steel Buildings* (ANSI/AISC 341-16).
3. Fabricator shall be AISC Certified or shall pay for Special Inspections on Shop Fabricated items.
4. All reactions shown are ASD loads.
5. All structural steel W shapes shall be ASTM A992.
6. All structural steel Tube sections shall be ASTM A500 Grade C.
7. All structural steel channels, angles and other sections shall be ASTM A36, unless noted otherwise.
8. Headed Studs shall be Type B Shear Connectors.
9. Shop and field connections shall be welded with E70XX electrodes or bolted with 3/4" dia. A325-N or A325-X bolts, unless noted otherwise.
10. Use ASTM F1554 Grade 36 anchor bolts for all PEMB frames, unless noted otherwise.
11. If anchor rods are installed without quite enough projection, contractor may submit elongated Elocone nuts for approval as a potential means to correct the issue.
12. Structural steel shall be shop primed per SSPC-SP 7 / NACE No. 4. Primer shall be SSPC paint with a minimum thickness of 2.0 mils. Omit paint at surfaces to be fireproofed.
13. If steel sizes do not meet specified U.L. listing (See Arch), thickness of fire protections shall be increased as required.
14. All steel exposed to weather shall be hot dipped galvanized per ASTM A123.
15. All steel exposed to earth shall receive bitumen coating.
16. Contractor shall include an allowance of (1/2) tons of structural steel in place in addition to the steel shown on the contract documents in the base bid. This material is to be acquired, detailed, fabricated, and placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused materials will be credited to the Owner.
17. Contractor shall include an allowance of 300 lineal feet of L4x4x1/4 angle in place in addition to the steel shown on the contract documents in the base bid.
18. Stairs, handrails, guardrails, and other miscellaneous steel items not specifically detailed on these drawings are the responsibility of the Contractor.

STEEL JOISTS

1. All steel joists shall conform to the standard specifications for the joist noted, as adopted by the Steel Joist Institute.
2. Contractor must furnish design calculations sealed by a Professional Engineer for steel bar joist designs.
3. Joist designation Joist depth/Series/Total Load/Live Load.
4. There are no uplift requirements for interior joists on this project.
5. Joist supplier has the option of combining joist sizes to a larger section.
6. K Series joists shall be welded to bearing plates or steel members with (2) 1/8" fillet welds with a minimum length of 2" each.
7. All K Series joists supported by concrete or masonry walls are to be supported by a 3/8" x 4" x 0'- 8" embed plate with (2) ½" x 4" headed studs at each joist unless noted otherwise.
8. Design cantilever ends of joist and joist outriggers for a uniform load of 50 psf and concentrated load on the end of section of 50 plf unless noted otherwise.
9. Weights of mechanical units are not included in the joist loading designation shown. Design joist for loading shown plus the weight of mechanical shown. Contractor is to verify all weights of mechanical units with Mechanical Subcontractor before submitting shop drawings.

METAL BUILDING

1. Metal building manufacturer shall be a member of the Metal Building Manufacturer's Association (MBMA) and be accredited according to the Inspections Program for Manufacturers of Metal Building Systems (AC472).
2. Reference Design Loads for Live, Wind, Snow, and Seismic loads on PEMB.
3. Building design shall include accomodation of basketball goals and other PEMB-mounted equipment plus an allowance of 10 psf superimposed dead load on the roof structure.
4. A wind beam is required at the top of all perimeter CMU that is not supporting mezzanine. This wind beam should be captured as part of the PEMB drawings. See plans and sections for loading and deflection criteria.
5. Owner will be responsible for the cost incurred in foundation changes due to unforeseen soil conditions or bearing pressure issues.
6. All structural design of foundations is based on an assumed metal building with pin-based columns.
7. Plans shall be reviewed and adjusted to correspond to the building manufacturer's requirements. Contractor will be responsible for the cost incurred in foundation changes due to change in detail or loading.
8. Building Manufacturer to submit complete design calculations for review before fabrication of any components.
9. Metal building and metal building components are not part of the design contract. Barnett/Jones/Wilson, LLC has no control or responsibility for the metal building and therefore should not be considered to be the Structural Engineer of Record for the metal building elements.



STRUCTURAL ISOMETRIC

DELEGATED DESIGN - COLD-FORMED METAL STUDS

1. All cold-formed steel work to be in accordance with *North American Specification for the Design of Cold-Formed Steel Structural Members* (AISI S100-16(2020)) and the *North American Standard for Cold-Formed Steel Structural Framing* (AISI S240-20).
2. All studs, joists, tracks, bridging, and accessories shall be a minimum of G60 galvanized and have minimum yield strength of 33ksi, unless noted otherwise.
3. Top and bottom tracks to be same gauge as studs unless noted otherwise.
4. Provide double studs at all wall intersections, jambs, corners, and intersections.
5. At all openings in walls, provide additional studs each side of opening to replace members cut at the opening.
6. Provide blocking or strapping at a maximum of 4'-0" - see typical detail.
7. All wall studs to have full bearing at top and bottom of stud.
8. Limit deflection of studs supporting brick to H/600.
9. Use a minimum of 18 gauge for studs used with brick anchors.
10. Limit deflection of all studs not supporting brick to H/360.
11. Unless otherwise indicated, all cold-formed metal stud information should be considered schematic in nature. Final design is to be provided by the contractor's stud supplier.

DELEGATED DESIGN - ALUMINUM AWNINGS/CANOPIES

1. Reference Architectural drawings for layout, location, size, configuration, etc. for all awnings and canopies.
2. Contractor to provide blocking details at frame and tie rod connection points and then field locate blocking based on connection points shown in awning shop drawing submittal.
3. Provide shop drawings showing: product data, cut sheets, structural properties, plan views, section views, detail views, and calculations for all members, connections of members to members, and connections of members to primary structure.

DELEGATED DESIGN - STAIRS, LADDERS, HANDRAILS, AND GUARDRAILS

1. Design Loads for design of stairs, ladders, handrails, and guardrails.
   - A. Handrails/Guardrails
     - a. 200 lb force applied in any direction at any point on handrail or top rail
     - b. 50 plf force applied in any direction at any point on handrail or top rail
     - c. 50 psf force on intermediate rails, openings, and space between rails
   - B. Ladders
     - a. 300 lb force applied in any direction at any point, with a minimum of (1) 300 lb force every 10 ft of ladder height
     - b. 100 lb force in any direction at any height at each side rail extension
     - c. Ships ladders with treads to be designed for same loads as Stairs
   - C. Grab Bars
     - a. 250 lb force applied in any direction at any point on grab bar
2. Provide shop drawings showing: product data, cut sheets, structural properties, plan views, section views, detail views, and calculations for all members, connections of members to members, and connections of members to primary structure.

EPOXY AND MECHANICAL ANCHORS

1. All anchors shall be installed per Manufacturer's Printed Installation Instructions (MPII).
2. Contractor must get pre-approval from Engineer of Record before using post-installed adhesive or mechanical anchors not detailed or specified in these drawings. All post-installed anchors must have an evaluation report showing code compliance with the intended application.
3. Adhesive anchors into concrete to be Simpson SET-3G or approved equal. Adhesive anchors into masonry to be Simpson SET-XP. Typical Embedment shall be 12 x dia. Design bond strength has been based on cracked concrete, ACI 355.4 Temperature Category B and installations into dry holes drilled into concrete that has cured for at least 21 days using a drill bit and technique that is qualified by the manufacturer.
4. All mechanical anchors to be Simpson TITEN HD Screw Anchors or approved equal. Typical Embedment shall be 8 x dia.
5. All Powder Actuated Fasteners (PAF) to be 0.157 Simpson PDPA pins w/ 1 1/4" minimum embedment into concrete or masonry. For installations into steel, PAF shall completely penetrate steel thickness.

TESTING

1. The Owner will provide testing and special inspection under a separate contract. See the project specifications for schedule of special inspections.

REVISION - SHEET NUMBER

Sheet Number	Sheet Name	Current Revision	Current Revision Description
S000	GENERAL NOTES		
S001	TYPICAL STEEL & CONCRETE DETAILS		
S002	TYPICAL MASONRY DETAILS		
S100	FOUNDATION PLAN		
S101	SUPPLIMENTARY PLANS		
S200	MEZZANINE FRAMING PLANS		
S500	SECTIONS & DETAILS		

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ALABAMA LICENSED 08/19/26 No. 51389 PROFESSIONAL ENGINEER MATTHEW MORRIS

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

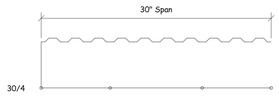
#	DESC	DATE

GENERAL NOTES

S000

Metal Deck Attachment Schedule

Area	Deck	Support Fastener/Pattern	Sidelap Fastener/Pattern
Mechanical Mezzanine	0.6C x 24ga	(3) - #10 TEK screws	(1) - #10 TEK screws



0.6C Decking

Rebar Lap Splice Lengths

4000 psi Concrete

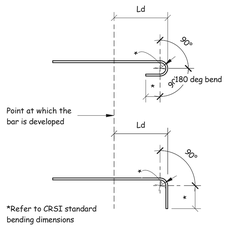
Bar Size	Column Splices	Beam, Slab, & Wall Splices	
		Top Bars	Other Bars
# 3	12"	25"	19"
# 4	15"	33"	25"
# 5	19"	41"	31"
# 6	23"	49"	37"
# 7	26"	71"	54"
# 8	30"	81"	62"
# 9	34"	91"	70"

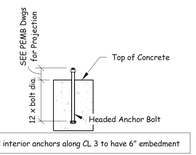
Notes:
1. Top bars are any horizontal reinforcing steel that has another layer of steel more than 2" below the bars or reinforcing steel that has more than 12" of concrete below the bars.
2. All horizontal reinforcing bars in walls may be detailed as "Other Bars".
3. All corner bars may be detailed as "Other Bars".

Reinforcing Steel Lap Splice Lengths

3000 psi Concrete

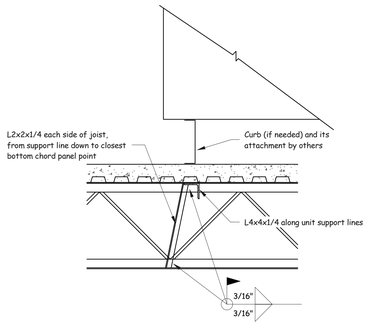
Bar Size	Footing & Grade Beams	
	Top Bars	Other Bars
# 3	28"	24"
# 4	38"	29"
# 5	47"	36"
# 6	56"	43"
# 7	81"	63"
# 8	93"	72"





Note: All interior anchors along CL 3 to have 6" embedment

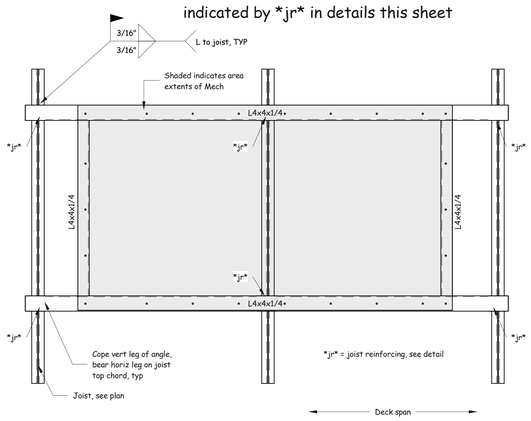
Typical Anchor Bolt Detail



Joist Reinforcing at Mechanical Equipment

indicated by *jr* in details this sheet

indicated by *jr* in details this sheet



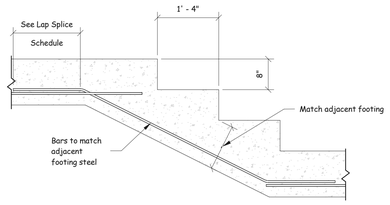
Roof Mechanical - Rectangular Long Dimension Perpindicular to Joists

Min 16 gauge for RTU curbs

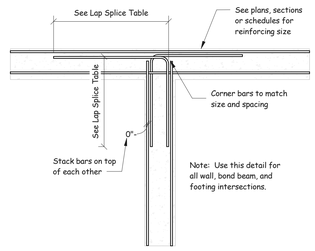
30"x24" Concrete Pier w/ (12) #7 bars vert w/ (5) sets of #4 ties @ top then 12" o.c.

24x24 Concrete Pier w/ (8) #8 bars vert w/ (5) #4 ties @ top then 12" o.c.

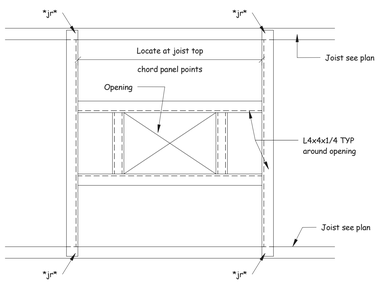
Typical Large Pier Configurations



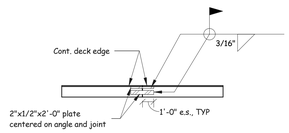
Multiple Footing Step



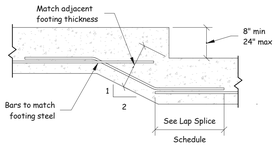
Typical Beam, Wall or Footing Reinforcing at Intersections



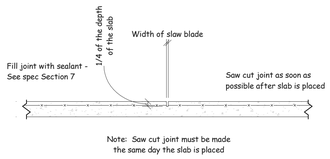
Typical Framed Opening in Deck



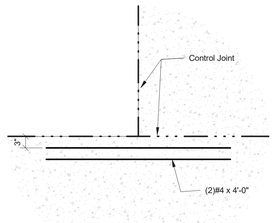
Typical Edge Angle Splice Detail



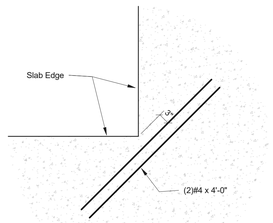
Single Footing Step



Typical Control Joint

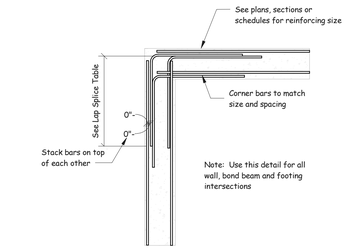


Discontinuous Control Joint

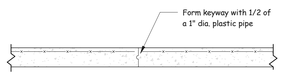


Re-Entrant Corner

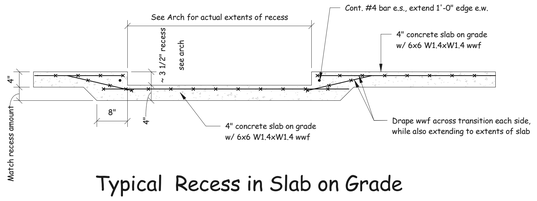
Typical Slab on Grade Supplemental Rebar Details



Typical Beam, Wall or Footing Reinforcing at Corners



Typical Construction Joint



Typical Recess in Slab on Grade

CONCRETE SCHEDULE

Concrete Use	Design Strength	Max W/C Ratio	Slump Limits	Entrained Air Range	Weight	Notes
Footings	3000 psi	n/a	3" to 5"	3% to 5%	150 pcf	-
Interior NW Slabs on Metal Deck	4000 psi	n/a	4" to 6"	no air	150 pcf	Use HRWR
Interior Slabs on Grade	4000 psi	n/a	4" to 6"	no air	150 pcf	Use HRWR

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PROJ NO: 25-138

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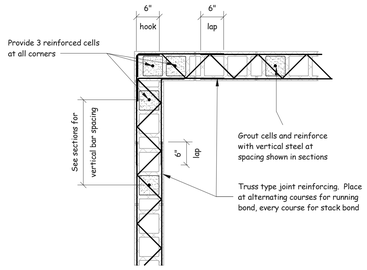
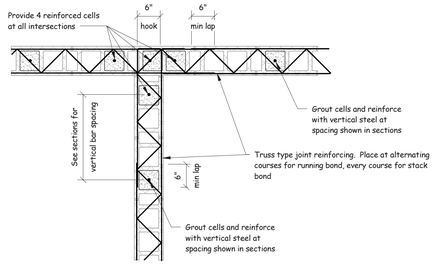
#	DESC	DATE

TYPICAL STEEL & CONCRETE DETAILS

S001



Typical Joint Reinforcing at Corner



Typical Joint Reinforcing at Intersection

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Brick Lintel Schedule

Span	Lintel Size	Bearing Each End
≤ 4'-0"	L 3-1/2 x 3-1/2 x 5/16	8"
≤ 6'-0"	L 4 x 3-1/2 x 5/16	8"
≤ 8'-0"	L 5 x 3-1/2 x 5/16	8"
≤ 10'-0"	L 6 x 3-1/2 x 5/16	8"
≤ 12'-0"	L 7 x 4 x 3/8	16"
≤ 14'-0"	L 8 x 4 x 7/16	16"

LINTEL NOTES:
1. All brick lintel angles are to be galvanized, long leg vertical, and shall fully bear on brick veneer.
2. Excluding any vertical brick relief steel that is attached to the structure at an elevated floor level, ALL vertical legs of standard brick lintels are to be positioned away from the structure and located against the back of the brick veneer. Vertical legs of standard brick lintels are sized such that they can not be moved away from the back of the brick veneer to where the vertical leg is up against the structure. See Arch for more detailed information of how to close any gaps between the exterior wall and the lintel.
3. Lintels for arched openings are not covered by standard lintel schedule.

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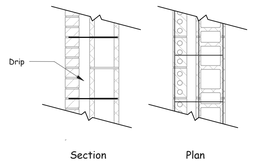
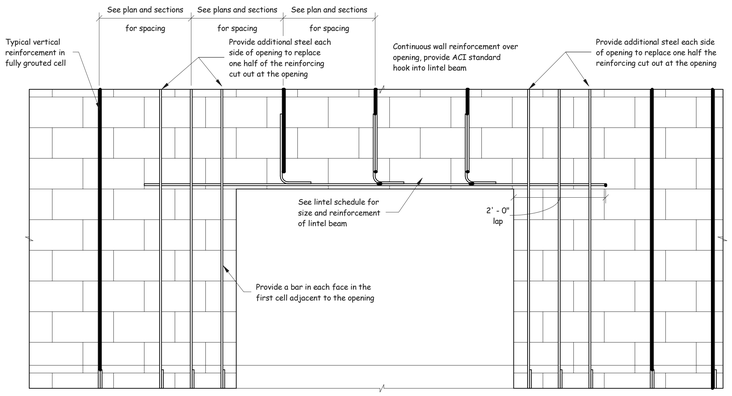
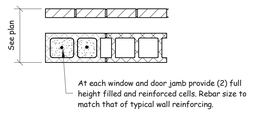


Exterior Masonry Wall Details

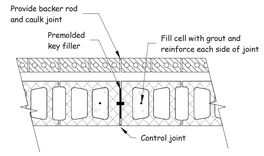
Note:
Place joint reinforcing shown @ 16" o.c. vertical in running bond block walls.
Place joint reinforcing @ 8" o.c. in stack bond walls



CMU Lintel Elevation

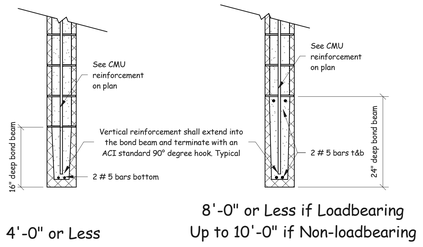


Typical Masonry Jamb Detail

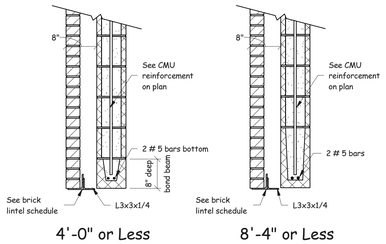


Note:
1. See Arch for spacing. If spacing is not shown place joints at 3 times the wall height but not greater than 20'-0" o.c. and at 4'-0" from corners.
2. Extend all horizontal reinforcing including bond beam steel thru control joints.

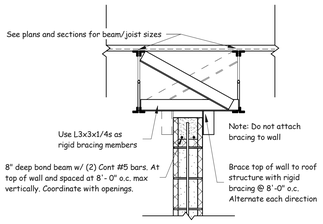
Typical Masonry Wall Control Joint



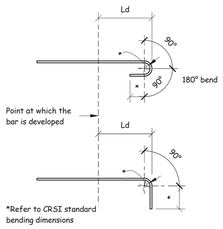
Typical INTERIOR CMU Lintel Details



Typical EXTERIOR CMU Lintel Details



Typical Top of CMU Rigid Bracing



Reinforcing Steel Lap Splice & Development Length for Concrete Masonry

Bar Size	Bar in center of wall			Bar in each face of wall
	6" CMU	8" CMU	12" CMU	
# 3	16"	16"	16"	16"
# 4	21"	21"	21"	30"
# 5	32"	26"	26"	46"
# 6	61"	43"	40"	85"
# 7	N/A	60"	46"	115"
# 8	N/A	N/A	61"	N/A

Notes:
1. Lengths are for vertical splices in wall.
2. Bar length for center of wall based on f'$_m$ of 1500psi or greater.
3. Bar length for face of wall are based on f'$_m$ of 2000psi or greater.
4. Refer to General Notes and details for masonry strength.

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#	DESC	DATE

TYPICAL MASONRY DETAILS

S002

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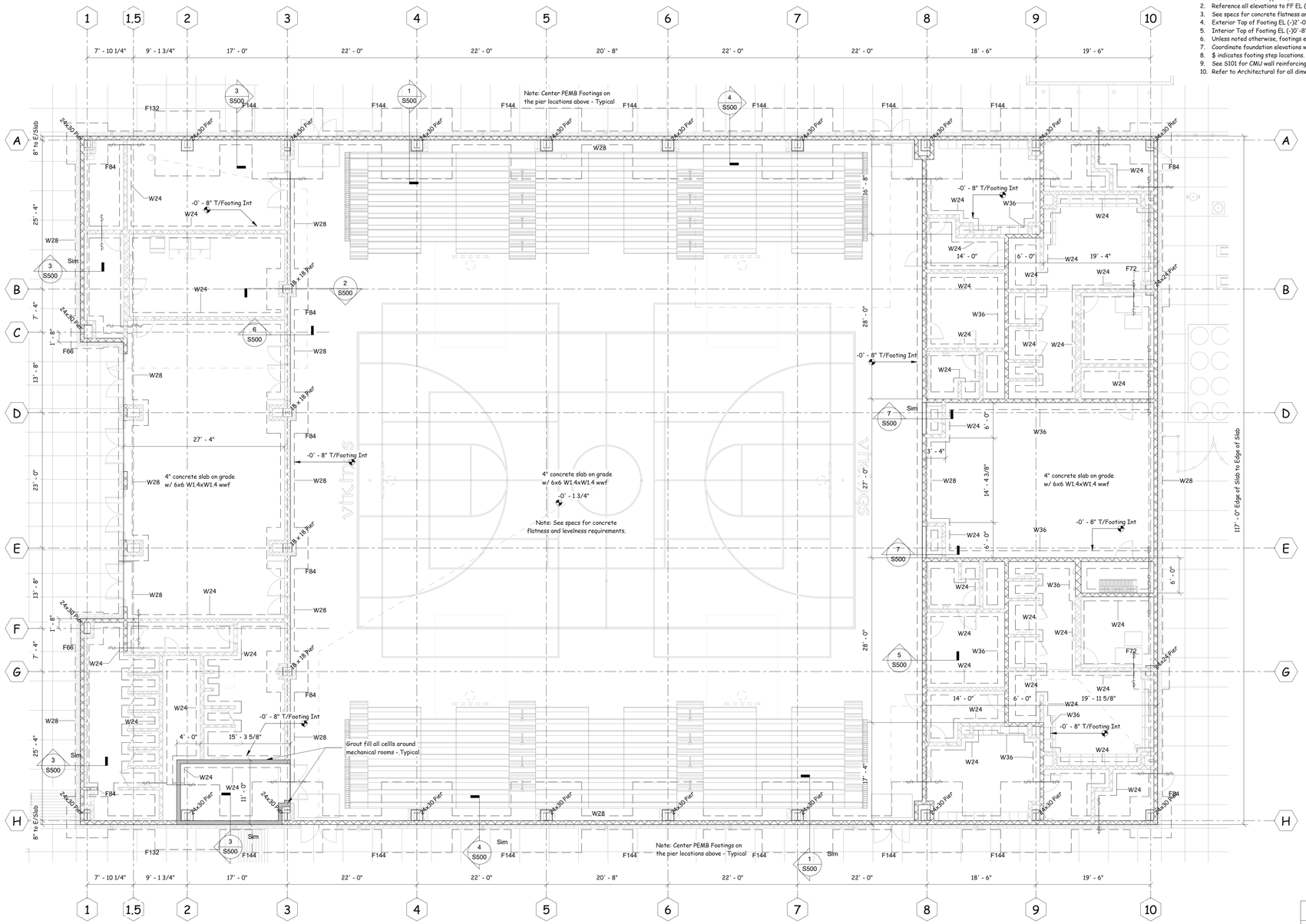
FOUNDATION PLAN

1/8" = 1'-0"

Plan Notes:

1. See S0 Sheets for Typical Details & General Notes
2. Reference all elevations to FF EL (+)0'-0"
3. See specs for concrete flatness and levelness requirements.
4. Exterior Top of Footing EL (-)2'-0" below FF min /or/ 1'-0" below adjacent grade min, coordinate w/ Civil whichever is greater TYP
5. Interior Top of Footing EL (-)0'-8" below FF min Typ
6. Unless noted otherwise, footings extend 8" beyond end of CMU walls that do not terminate at corners.
7. Coordinate foundation elevations with plumbing requirements. Step footings down as required to clear plumbing lines.
8. $ indicates footing step locations.
9. See S101 for CMU wall reinforcing information.
10. Refer to Architectural for all dimensions, slopes, elevations, etc. not illustrated on this plan. Coordinate all final dimensions and elevations with Architectural.



STRIP FOOTING SCHEDULE

Type	Width	Thickness	Reinforcing
W24	2' - 0"	1' - 0"	(3)#4 bars cont w/ #4 bars @ 12" o.c. Short
W28	2' - 4"	1' - 0"	(4)#4 bars cont w/ #4 bars @ 12" o.c. Short
W36	3' - 0"	1' - 0"	(4)#4 bars cont w/ #4 bars @ 10" o.c. Short

SPREAD FOOTING SCHEDULE

Mark	Width	Length	Thickness	Reinforcing	Estimated Number Required
F66	5' - 6"	5' - 6"	1' - 0"	(6) #5 bars e.w. t&b	2
F72	6' - 0"	6' - 0"	1' - 0"	(7) #5 bars e.w. t&b	2
F84	7' - 0"	7' - 0"	1' - 6"	(6) #6 bars e.w. t&b	8
F132	11' - 0"	11' - 0"	2' - 0"	(11) #7 bars e.w. t&b	2
F144	12' - 0"	12' - 0"	2' - 0"	(10) #8 bars e.w. t&b	14

ESTIMATED PIER SCHEDULE

Column Location Mark	Keynote
A-1	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-2	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-3	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-4	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-5	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-6	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-7	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.

ESTIMATED PIER SCHEDULE

Column Location Mark	Keynote
A-8	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-9	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
A-10	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
B-3	18"x18" Concrete Pier w/ (4)#8 bars vert w/ (5)#3 ties @ top then @ 12" o.c.
B-10	24"x24" Concrete Pier w/ (8)#8 bars vert w/ (5)#4 ties @ top then @ 12" o.c.
C-1	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
D-3	18"x18" Concrete Pier w/ (4)#8 bars vert w/ (5)#3 ties @ top then @ 12" o.c.

ESTIMATED PIER SCHEDULE

Column Location Mark	Keynote
E-3	18"x18" Concrete Pier w/ (4)#8 bars vert w/ (5)#3 ties @ top then @ 12" o.c.
F-1	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
G-3	18"x18" Concrete Pier w/ (4)#8 bars vert w/ (5)#3 ties @ top then @ 12" o.c.
G-10	24"x24" Concrete Pier w/ (8)#8 bars vert w/ (5)#4 ties @ top then @ 12" o.c.
H-1	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-2	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-3	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.

ESTIMATED PIER SCHEDULE

Column Location Mark	Keynote
H-4	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-5	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-6	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-7	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-8	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-9	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.
H-10	30"x24" Concrete Pier w/ (12)#7 vertical dowels w/ (5)#4 tie sets top then 12" o.c.

Schedule Notes:

1. Schedules are to be used as a guide for estimating only and should not be exclusively for takeoffs and bidding.
2. Schedules reflect major uses of materials, but do not necessarily contain all aspects of the project.
3. Refer to plans, sections, elevations, notes, details, and all other portions of the project documents for all items not scheduled.

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4275 SNOW RD N, SEMMES, AL 36575

ALABAMA LICENSED 08/19/26 No. 51389 PROFESSIONAL ENGINEER MATTHEW CLAYSON HOLMES

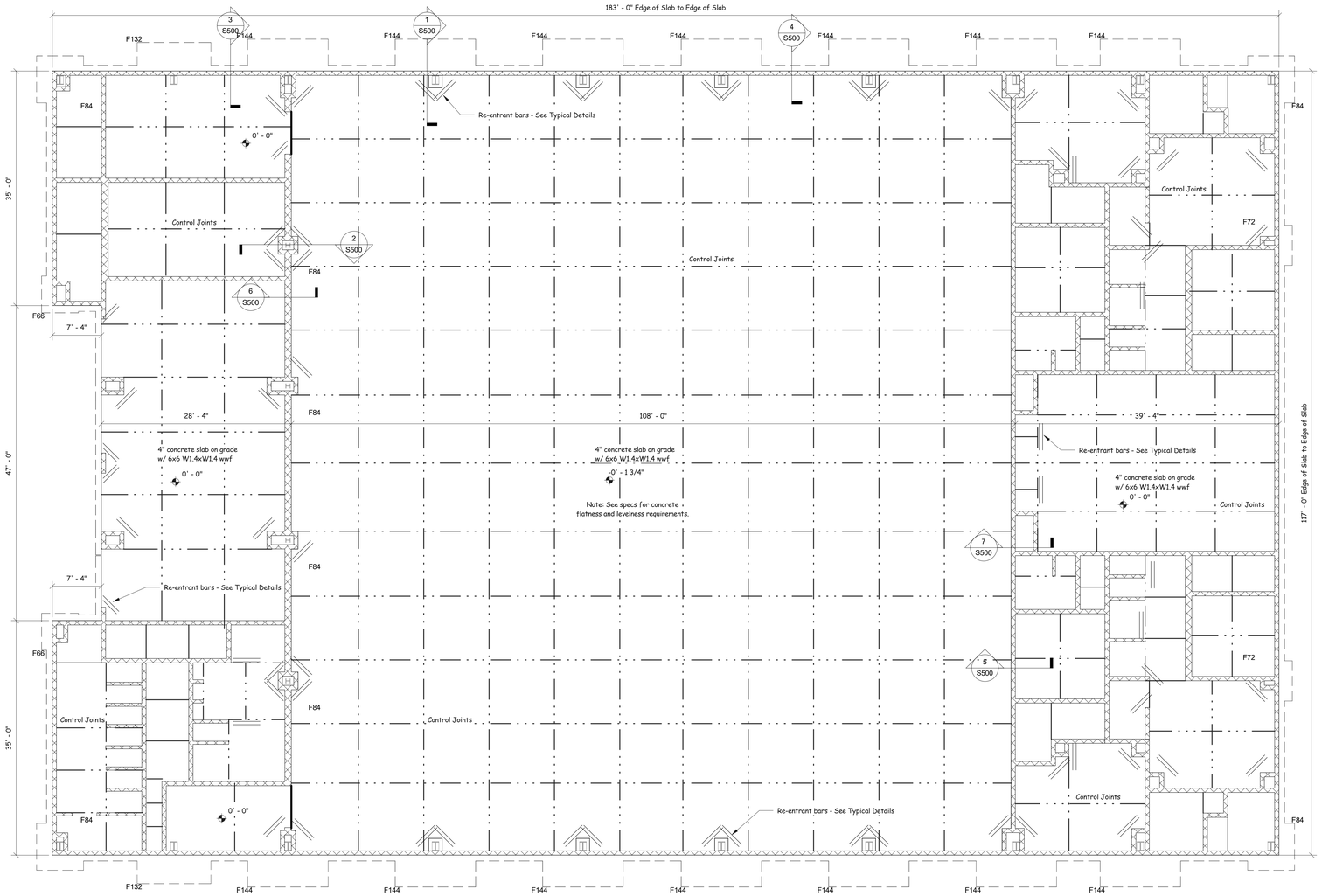
BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS		
#	DESC	DATE

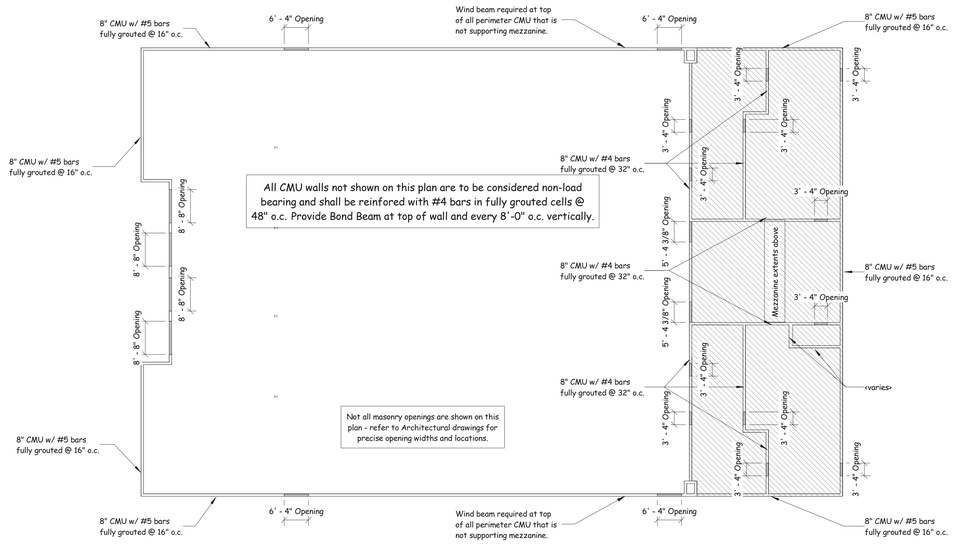
FOUNDATION PLAN

S100



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

Plan Notes:
1. See S0 Sheets for Typical Details & General Notes.
2. Reference all elevations to FF EL (+)0'-0".
3. Provide (2) #4 x 4'-0" at all re-entrant corners, space 3" off each corner. See general notes for more information.
4. Control Joint spacing 10'-0" max. See typical detail, coordinate layout w/ Arch/Owner.
5. See specs for concrete flatness and levelness requirements.
6. Refer to Architectural for all dimensions, slopes, elevations, etc. not illustrated on this plan. Coordinate all final dimensions and elevations with Architectural.



LOAD-BEARING CMU PLAN
1/16" = 1'-0"

Plan Notes:
1. See S0 Sheets for Typical Details & General Notes.
2. Reference all elevations to FF EL (+)0'-0".
3. At each window and door jamb provide (2) full height filled and reinforced cells. Rebar size to match that of typical wall reinforcing. Applies to all CMU Walls.
4. See Typical CMU Lintel Details for lintel beam and reinforcing reqirements for all openings in CMU walls.
5. Not all masonry openings are shown on this plan - refer to Architectural drawings for precise opening widths and locations.
6. All CMU walls not shown on this plan are to be considered non-load bearing and shall be reinforced with #4 bars in fully grouted cells @ 48" o.c.
   A. Provide rigid bracing at top of non-load bearing CMU walls per "Typical Top of CMU Rigid Bracing" detail.
   B. CMU walls shown in this plan shall be reinforced full height as shown on this plan.
7. All interior load-bearing CMU shall be reinforced w/ #4 bars fully grouted at 32" o.c. max.
8. All perimeter CMU shall be reinforced w/ #5 bars fully grouted at 16" o.c. max.
9. A wind beam is required at the top of all perimeter CMU that is not supporting mezzanine. See sections for more information.
10. Refer to Architectural for all dimensions, slopes, elevations, etc. not illustrated on this plan. Coordinate all final dimensions and elevations with Architectural.

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SUPPLIMENTARY PLANS

S101

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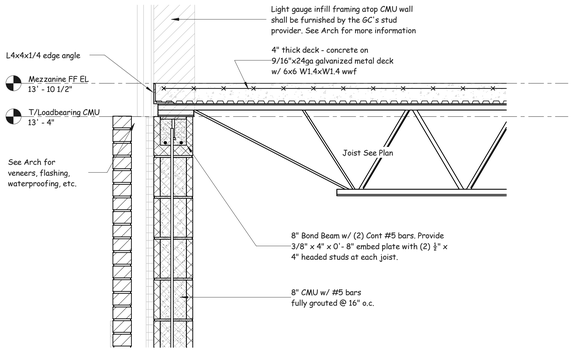
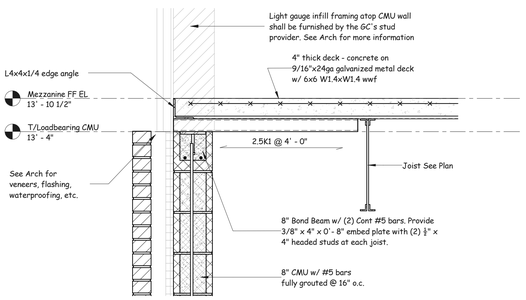


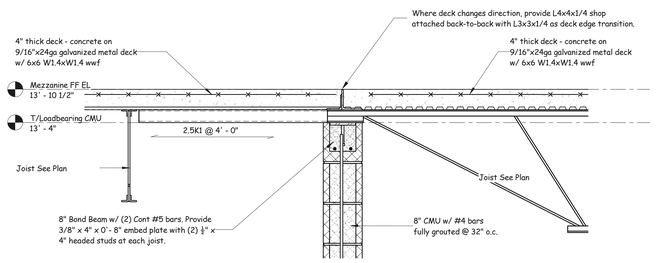
Section 1

1" = 1'-0"



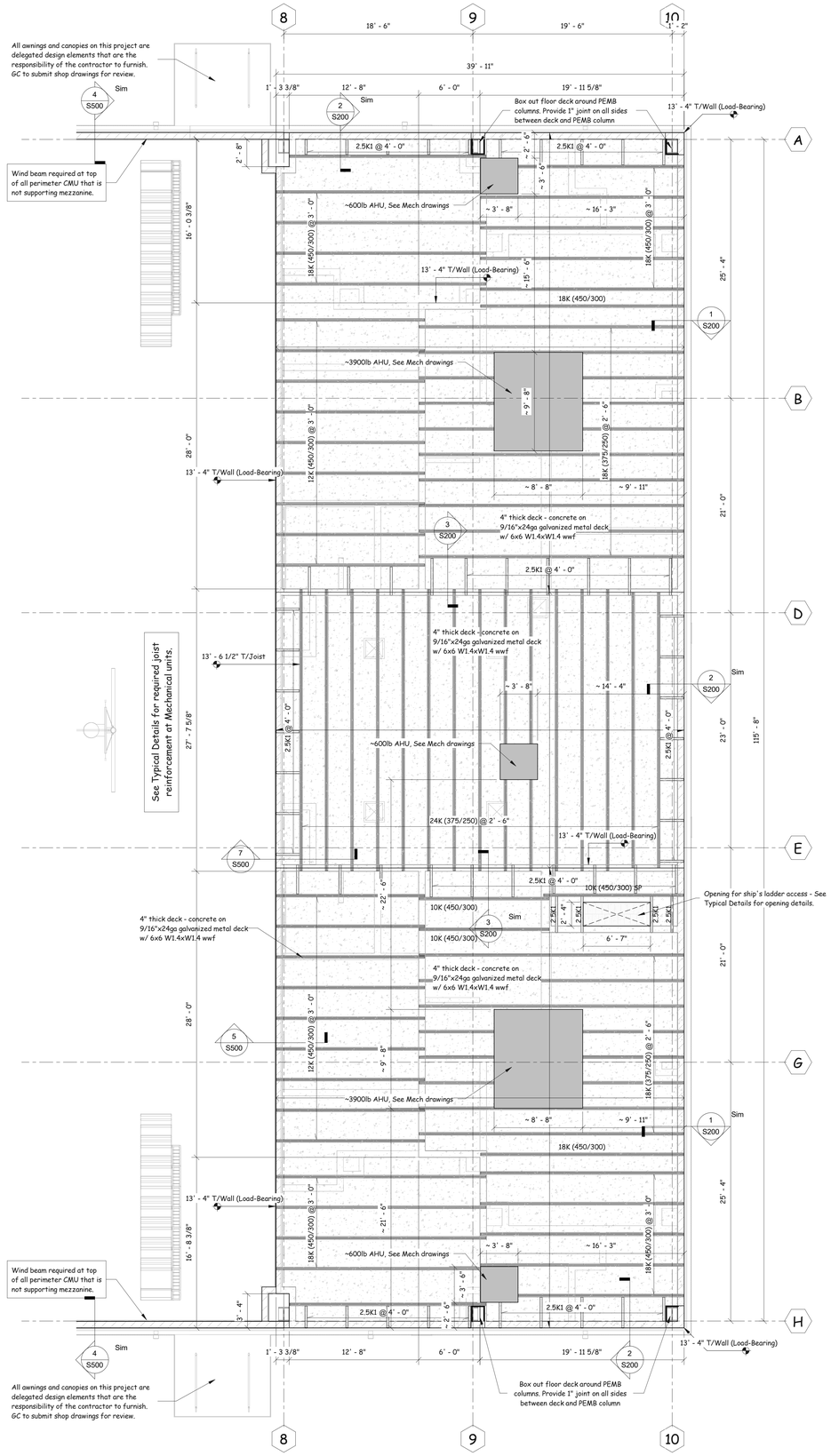
Section 2

1" = 1'-0"



Section 3

1" = 1'-0"



2ND FLOOR FRAMING PLAN

3/16" = 1'-0"

Plan Notes:

1. See S0 sheets for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0".
3. Floor construction 4" concrete slab with 6x6 W1.4xW1.4 wwf on 9/16" x 24ga. galvanized metal decking.
4. Typical finish floor elevation = (+) 13'-10 1/2".
5. Typical top of joist = (+) 13'-6 1/2".
6. Typical joist bearing / top of load bearing CMU = (+) 13'-4".
7. Provide rigid bracing at top of non-load bearing CMU walls below this level per "Typical Top of CMU Rigid Bracing" detail.
8. A wind beam is required at the top of all perimeter CMU that is not supporting mezzanine. See sections for more information.
9. Weights of mechanical units are not included in the joist loading designation shown. Design joist for loading shown plus the weight of mechanical shown. Contractor is to verify all weights of mechanical units with Mechanical Subcontractor before submitting shop drawings.
10. Refer to Architectural for all dimensions, slopes, elevations, etc. not illustrated on this plan. Coordinate all final dimensions and elevations with Architectural.

ESTIMATED JOIST FRAMING SCHEDULE

Type	Approximate Count
2.5K1	58
10K (450/300)	2
10K (450/300) SP	1
12K (450/300)	18
18K (375/250)	18
18K (450/300)	22
24K (375/250)	15

Weights of mechanical units are not included in the joist loading designation shown. Design joist for loading shown plus the weight of mechanical shown. Contractor is to verify all weights of mechanical units with Mechanical Subcontractor before submitting shop drawings.

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MEZZANINE FRAMING PLANS

S200

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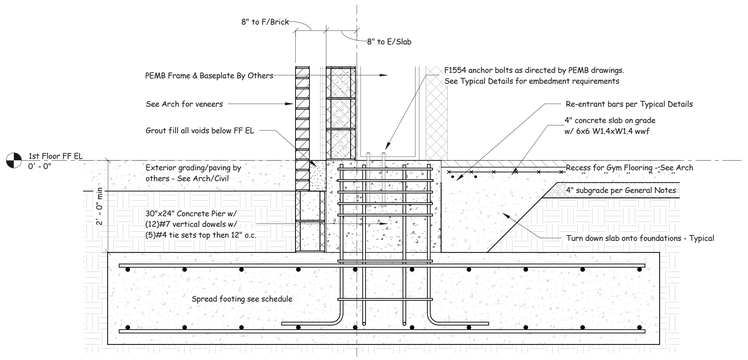
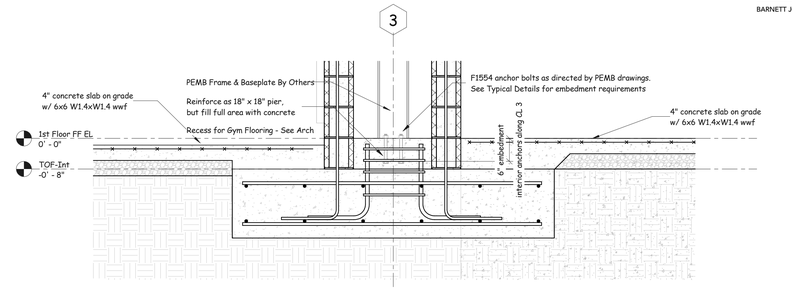


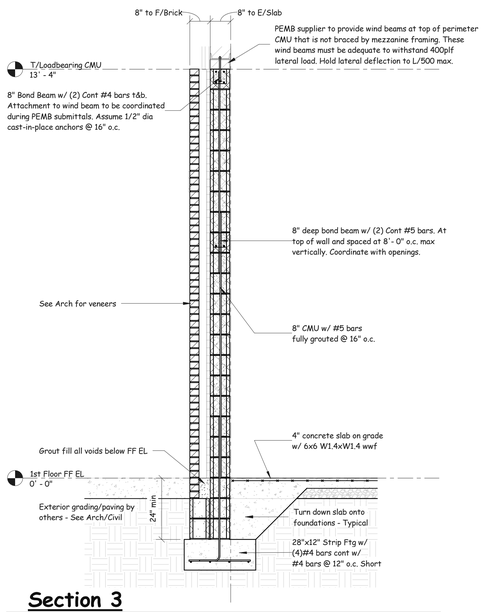
Section 1

3/4" = 1'-0"



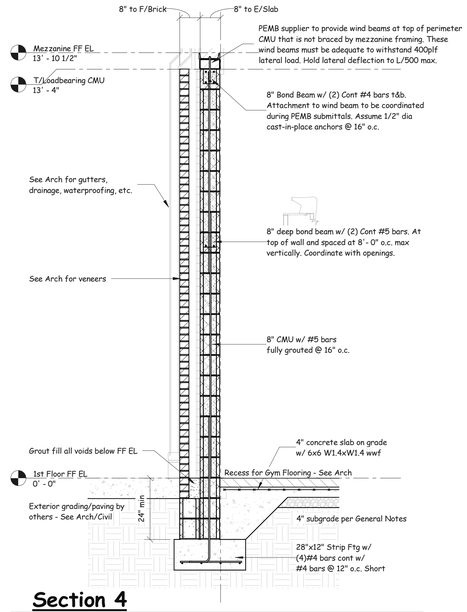
Section 2

3/4" = 1'-0"



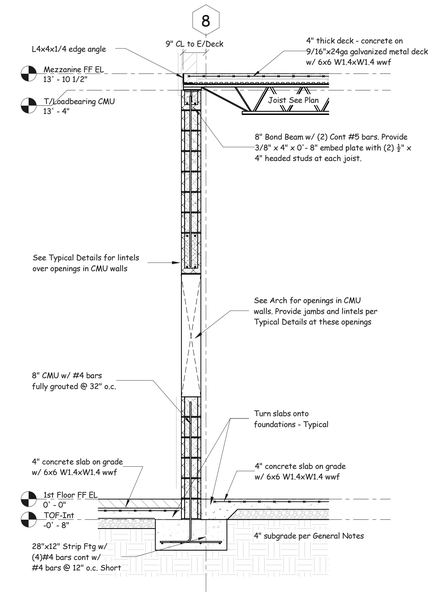
Section 3

1/2" = 1'-0"



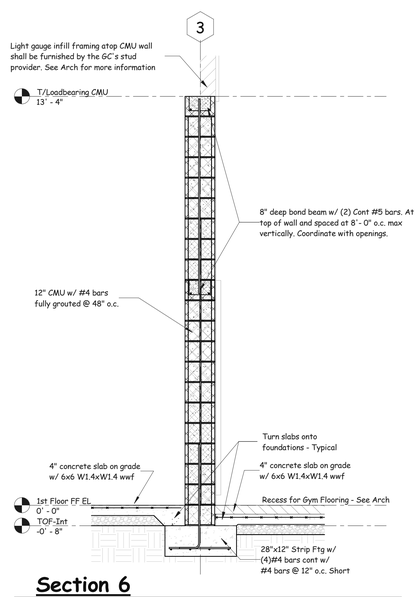
Section 4

1/2" = 1'-0"



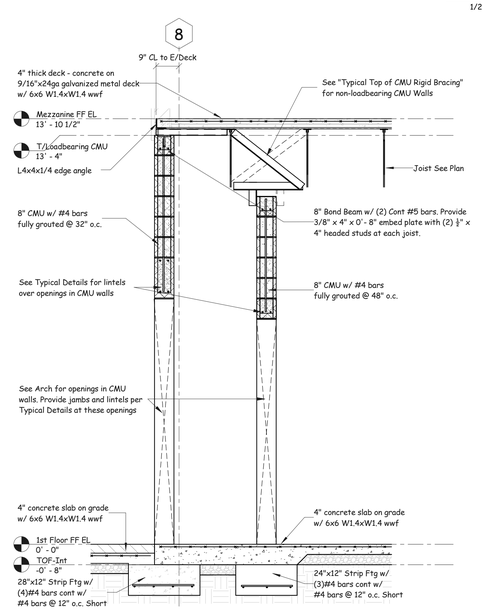
Section 5

1/2" = 1'-0"



Section 6

1/2" = 1'-0"



Section 7

1/2" = 1'-0"

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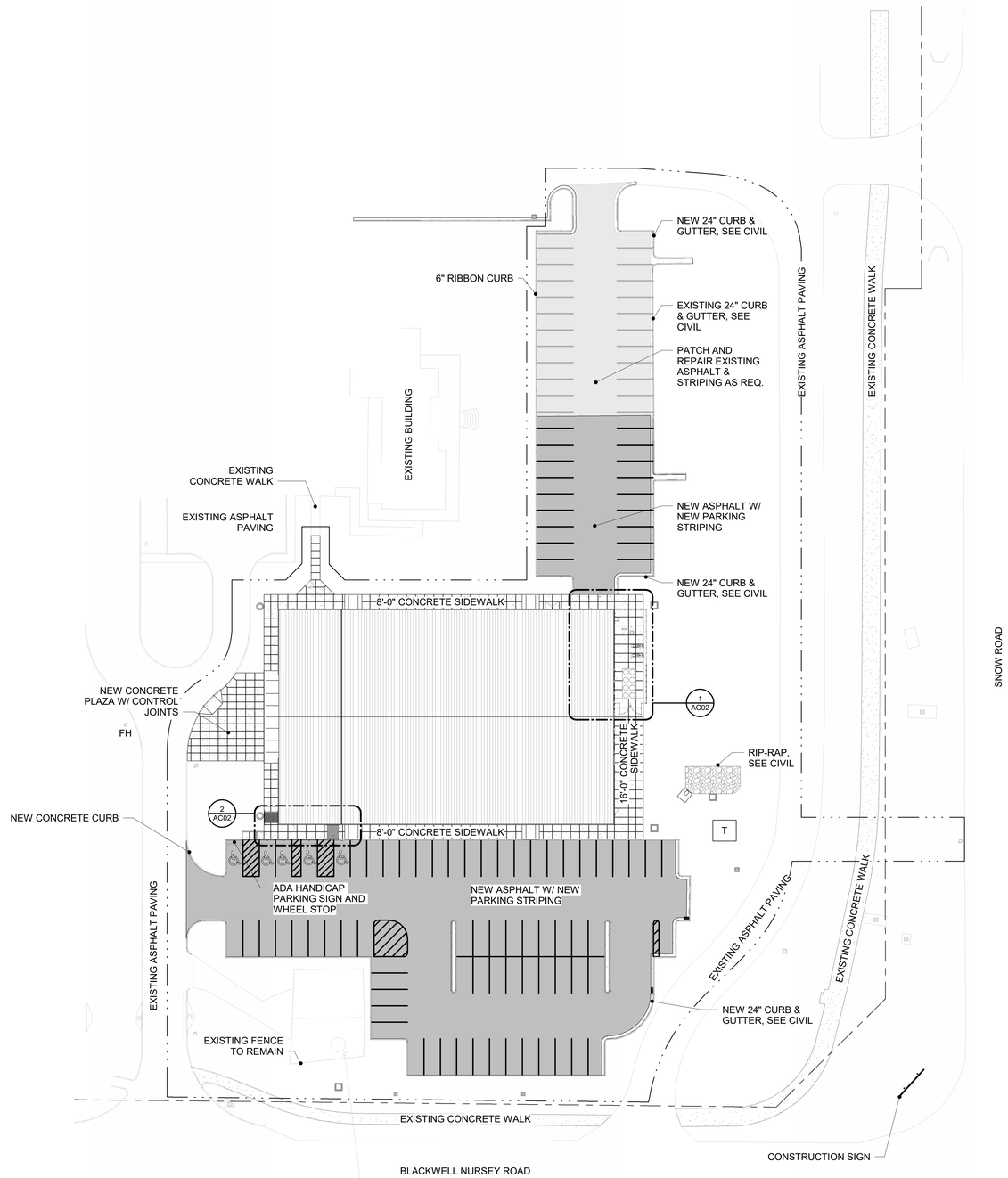
SECTIONS & DETAILS

S500



1 ARCHITECTURAL SITE PLAN

1" = 30'-0"

0" 15'-0" 30'-0" 60'-0" 120'-0"

N

LEGEND

EDGE OF ASPHALT	PROPERTY LIMITS
CURB LINES	LIMITS OF CONST.
EXIST. FENCE	NEW CONTOUR
NEW FENCE	NEW SPOT ELEVATION
BUILDINGS	DEPRESSIONS
NEW GRASS SWALE	POWER POLE
SIGNS	GUY ANCHOR
MAN HOLES	TRANSFORMER MONUMENT SURVEY MARK (HUB)
GAS METERS	IRON PIN FLOW LINE
CURB INLET	ASPHALT PAVING - EXIST.
CATCH BASINS	ASPHALT PAVING - NEW
JUNCTION BOX	
EXIST. CONTOUR	
EXIST. SPOT ELEVATION	
FLOW DIRECTION	
FIRE HYDRANT	
HIGH POINT	

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STATE OF ALABAMA
JORDAN C MORRIS
7084
REGISTERED ARCHITECT

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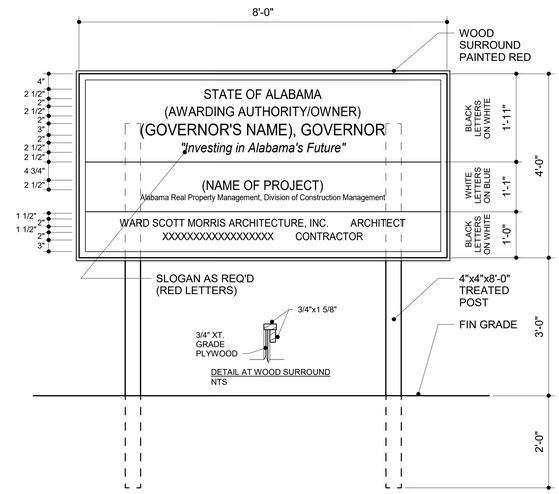
ARCHITECTURAL SITE PLAN

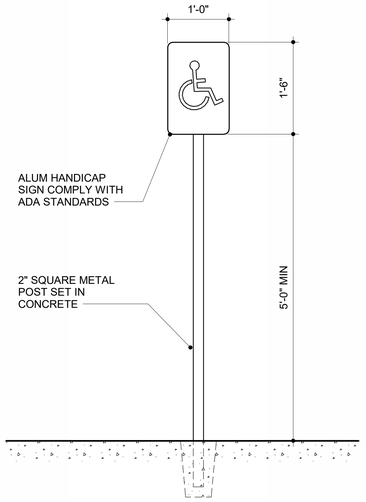
AC01



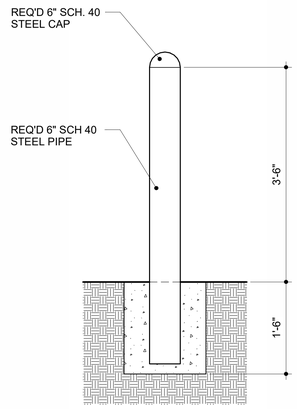
NOTES:

- SIGN TO BE CONSTRUCTED OF 3/4" EXTERIOR GRADE PLYWOOD.
- PAINT WITH TWO COATS BEST GRADE EXTERIOR PAINT BEFORE LETTERS ARE PAINTED. OPTION: IN LIEU OF PAINTED LETTERING ON PLYWOOD, A CORRUGATED PLASTIC SIGN (DISPLAYING THE SAME LETTERING, LAYOUT, & COLORS AS ABOVE) MAY BE SECURED DIRECTLY TO THE UNPAINTED EXTERIOR GRADE PLYWOOD.
- SIGN SHALL BE PLACED IN A PROMINENT LOCATION AND EASILY READABLE FROM EXISTING STREET OR ROADWAY.
- SIGN SHALL BE MAINTAINED IN GOOD CONDITION UNTIL PROJECT COMPLETION.
- SLOGAN: ACT 2020-167'S TITLE "INVESTING IN ALABAMA'S FUTURE" SHOULD BE PLACED ON THE PROJECT SIGNS OF ALL PSCA-FUNDED PROJECTS, OTHERWISE THE AWARDING AUTHORITY/OWNER'S SLOGAN, IF ANY, SHOULD BE USED. IF THE AWARDING AUTHORITY/OWNER OF A FULLY LOCALLY-FUNDED PROJECT DOES NOT HAVE A SLOGAN, THE PROJECT SIGN DOES NOT REQUIRE A SLOGAN.

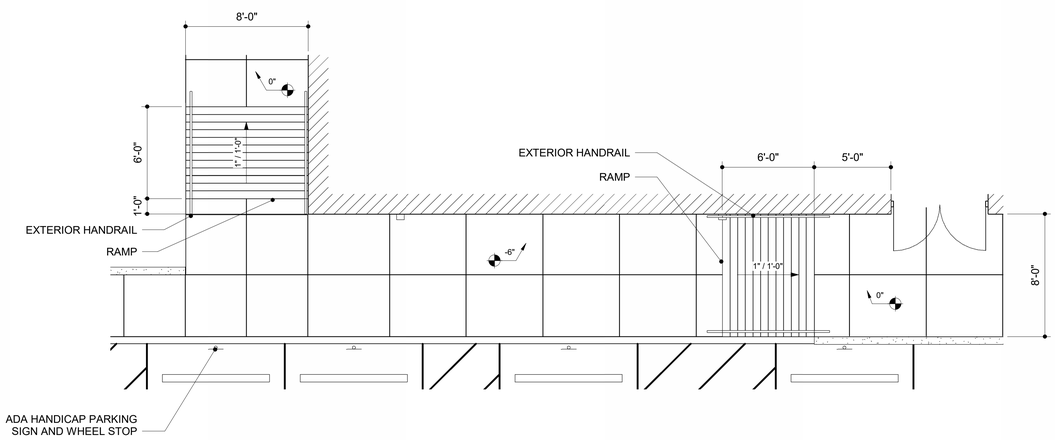
5 DCM FORM C-15 JOBSITE SIGN
3/4" = 1'-0"



4 HANDICAP PARKING SIGN
1" = 1'-0"



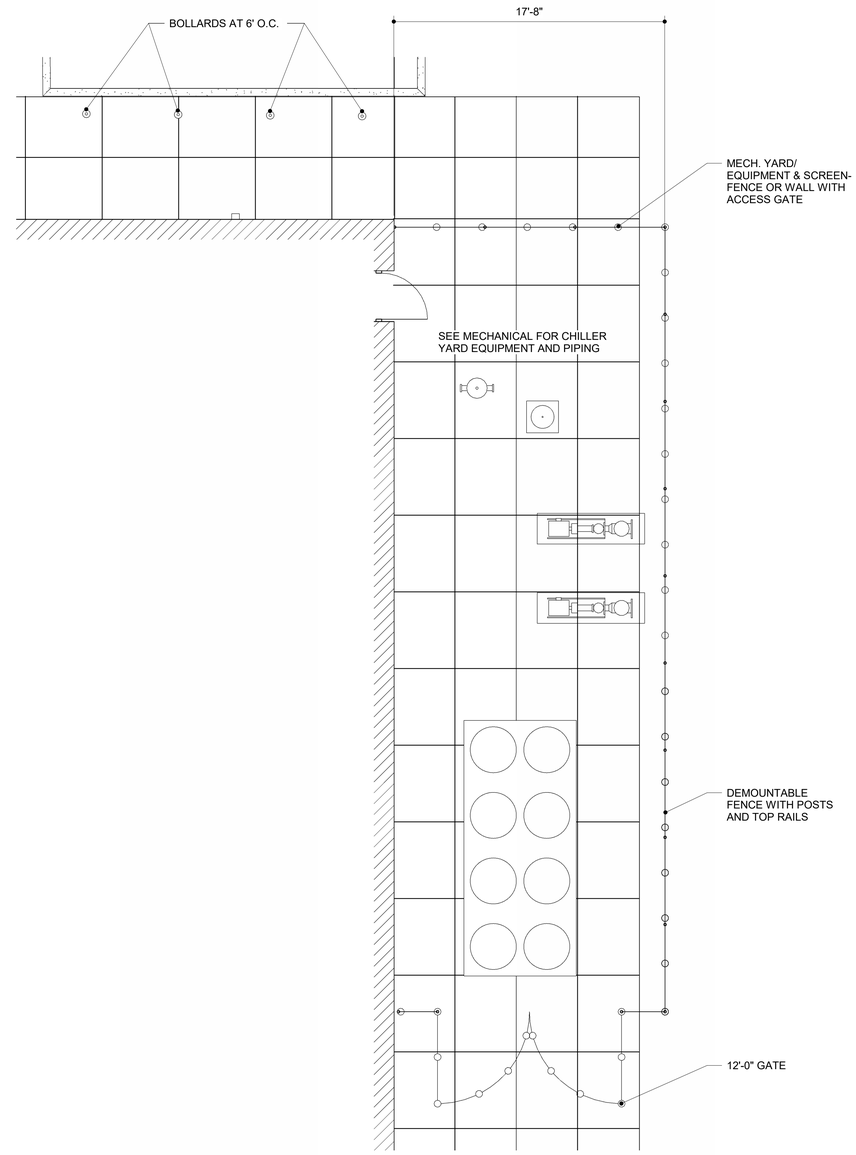
3 BOLLARD DETAIL
1" = 1'-0"



2 ARCHITECTURAL SITE PLAN - ACCESSABILITY RAMPS
1/4" = 1'-0"

2'-0" 8'-0"
0" 4'-0" 16'-0"

N



1 ARCHITECTURAL SITE PLAN - MECH. YARD
1/4" = 1'-0"

2'-0" 8'-0"
0" 4'-0" 16'-0"

N

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ARCHITECTURAL SITE PLAN - ENLARGED PLANS

AC02

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WAINSCOT MAT.	WAINSCOT HT.	WALL- NORTH	WALL- SOUTH	WALL- EAST	WALL- WEST	TRIM	MILLWORK	CEILING MAT.	CEILING HT.	NOTES	ROOM NUMBER
1101	LOBBY	LVT-2,3,4,5	RB-2			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	SS-1	AC-PNL-A/GWB	VARIES	4, 7, 12	1101
1102	CONCESSIONS	LVT-1	RB-1			PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-2	PL-1; SS-1	AC-PNL-A	10'-0"	2, 5, 7	1102
1103	STOR	LVT-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	10'-0"		1103
1104	ELEC	S-CONC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	9'-0"		1104
1105	STORAGE	S-CONC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	10'-0"		1105
1106	GYMNASIUM	AWF-1	AWF-1			PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-2	SS-2	EXPOSED	VARIES	6, 9, 10, 11, 14	1106
1107	VEST.	LVT-1	RB-1			PNT-1	PNT-1	PNT-3	PNT-1	PNT-2		AC-PNL-A	10'-0"	3	1107
1108	VISITOR LOCKER ROOM	RSF-1	RSF-1			PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-2		AC-PNL-A	10'-0"	2	1108
1109	TLT/ SHWR	RSF-1	RSF-1			PWT-1	PWT-1	PWT-1	PWT-1	PNT-2		AC-PNL-B/GWB	VARIES		1109
1110	RISER	S-CONC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		GWB	10'-0"		1110
1111	BOYS' LOCKER ROOM	RSF-1	RSF-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	10'-0"	12	1111
1112	TLT/SHOWER	RSF-1	RSF-1			PNT-1; PWT-1	PNT-1; PWT-1	PWT-1; GWT-1,2,3	PNT-1; PWT-1	PNT-2		AC-PNL-B/GWB	VARIES	15	1112
1113	UNIFORM STORAGE	RSF-1	RSF-1,RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PL-1; SS-1	AC-PNL-A	9'-0"	5, 8	1113
1114	COACH OFFICE	LVT-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	9'-0"	12	1114
1115	COACH TLT	RSF-1	RSF-1			PWT-1; GWT-1,3	PWT-1; GWT-1,3	PWT-1; GWT-1,3	PWT-1; GWT-1,3	PNT-2		AC-PNL-B/GWB	VARIES	13	1115
1116	STOR	RSF-1	RSF-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-B	9'-0"		1116
1117	MULTIPURPOSE ROOM	RT-1,2,3	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A/GWB	VARIES		1117
1118	A/V	S-CONC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	9'-0"		1118
1119	MECH ACCESS	S-CONC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EXPOSED	--		1119
1120	COACH OFFICE	LVT-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	9'-0"	12	1120
1121	COACH TLT	RSF-1	RSF-1			PWT-1; GWT-1,3	PWT-1; GWT-1,3	PWT-1; GWT-1,3	PWT-1; GWT-1,3	PNT-2		AC-PNL-B/GWB	VARIES	13	1121
1122	STOR.	RSF-1	RSF-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-B	9'-0"		1122
1123	VEST.	LVT-1	RB-1			PNT-1	PNT-1	PNT-3	PNT-1	PNT-2		AC-PNL-A	10'-0"	3	1123
1124	GIRLS' LOCKER ROOM	RSF-1	RSF-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	10'-0"	12	1124
1125	GIRLS' LOCKER TLT	RSF-1	RSF-1			PNT-1; PWT-1	PNT-1; PWT-1	PWT-1; GWT-1,2,3	PNT-1; PWT-1	PNT-2		AC-PNL-B/GWB	VARIES	15	1125
1126	UNIFORM STORAGE	RSF-1	RSF-1,RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PL-1; SS-1	AC-PNL-A	9'-0"	5, 8	1126
1127	VISITOR LOCKER ROOM	RSF-1	RSF-1			PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-1,2,3	PNT-2		AC-PNL-A	10'-0"	2	1127
1128	TLT/ SHWR	RSF-1	RSF-1			PWT-1	PWT-1	PWT-1	PWT-1	PNT-2		AC-PNL-B/GWB	VARIES		1128
1129	ELEC	S-CONC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		GWB	10'-0"		1129
1130	MECH.	S-CONC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-A	10'-0"		1130
1131	VEST.	LVT-2	RB-2			PNT-1	PNT-3	PNT-1	PNT-1	PNT-2		AC-PNL-A	12'-0"	3	1131
1132	MENS	RSF-1	RSF-1			PNT-1; PWT-1	PNT-1; PWT-1	PNT-1; PWT-1; GWT-1,2,3	PNT-1; PWT-1	PNT-2		AC-PNL-B	10'-0"	1	1132
1133	JAN	RSF-1	RSF-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		AC-PNL-B	9'-0"		1133
1134	WOMENS	RSF-1	RSF-1			PNT-1; PWT-1	PNT-1; PWT-1	PNT-1; PWT-1	PNT-1; PWT-1; GWT-1,2,3	PNT-2		AC-PNL-B	10'-0"	1	1134
1140	EQUIPMENT PLATFORM	S-CONC	----			-----	-----	-----	------	-----		EXPOSED	--		1140

LEGEND

FLOORING

AWF-1 ATHLETIC WOOD FLOORING SYSTEM
WITH GAMELINES
ROBBINS SPORTS SURFACES
BIO CHANNEL SB FLOOR SYSTEM
STAIN COLOR: TWO-TONE STAIN, TBD
COURTLINE COLORS: TBD
SEE 1/A602 FOR FLOORING DETAIL

LVT-1 LUXURY VINYL TILE
TARKETT
COLLECTION: CONTOUR
STYLE: PEME MELANGE
COLOR: 12037 LATTICE
TOTAL THICKNESS: 3 MM
WEAR LAYER: 32 MIL
SIZE: 18" X 18"
INSTALLATION METHOD: ASHLAR

LVT-2 LUXURY VINYL TILE
TARKETT
COLLECTION: CONTOUR
STYLE: PCDE DEM
COLOR: 11375 TARRAGON
TOTAL THICKNESS: 3 MM
WEAR LAYER: 30 MIL
SIZE: 18" X 18"
INSTALLATION METHOD: ASHLAR

LVT-3 LUXURY VINYL TILE
TARKETT
COLLECTION: EVENT ABSTRACT
STYLE: PEME MELANGE
COLOR: 12033 DEWDROP
TOTAL THICKNESS: 3 MM
WEAR LAYER: 30 MIL
SIZE: 18" X 18"
INSTALLATION METHOD: ASHLAR

LVT-4 LUXURY VINYL TILE
TARKETT
COLLECTION: EVENT WOOD
STYLE: PECF CRAFTED PLANK
COLOR: 11217 ATLANTIC WALNUT
TOTAL THICKNESS: 3 MM
WEAR LAYER: 30 MIL
SIZE: 6" X 48"
INSTALLATION METHOD: STAGGER

LVT-5 LUXURY VINYL TILE - CUSTOM LOGO
TARKETT
CUSTOM LOGO
QUOTE #: 260605-1
DRAWING #: 148.2026
5 COLORS
VMN 3141 JS SE (GEODE)
VCR 0255 SS SE (RAVEN)
VCR 0068 SS SE (MIST)
VCR 0243 SS SE (SNOWBOUND)
VMN 3131 JS SE (IGNEOUS)
TOTAL THICKNESS: 3MM
WEAR LAYER: HOMOGENOUS TILE
SIZE: 9'-6" DIAMETER
CUSTOM LOGO TO BE CUT BY MANUFACTURER

RSF-1 RESINOUS FLOORING WITH 6" COVE BASE
SHERWIN WILLIAMS
RESUFLOR DECO SMALL FLAKE 1/8" SB
COLOR: TUNGSTEN 1/8"
WEARING SURFACE: STANDARD AT ALL
SEE SPECS FOR MORE INFO.
SEE 2/A602 FOR BASE DETAIL.

FLOORING CONT.

RT-1 RUBBER TILE
NORA BY INTERFACE
NORAMENT GRANO 992
COLOR: FRANKINCENSE 5303
THICKNESS: 9.0 MM
SIZE: 39.45" X 39.45"

RT-2 RUBBER TILE
NORA BY INTERFACE
NORAMENT GRANO 992
COLOR: MYRRH 5308
THICKNESS: 9.0 MM
SIZE: 39.45" X 39.45"

RT-3 RUBBER TILE
NORA BY INTERFACE
NORAMENT GRANO 992
COLOR: AGAPANTHUS 5317
THICKNESS: 9.0 MM
SIZE: 39.45" X 39.45"

S-CONC SEALED CONCRETE

BASE

RB-1 RUBBER BASE
TARKETT - JOHNSONITE
SIZE: 4" HIGH CONTINUOUS ROLL
COLOR: BLACK B 40

RB-2 RUBBER BASE
TARKETT - JOHNSONITE
MILLWORK BASE
STYLE: REVEAL
SIZE: 4 1/4" HIGH
COLOR: BLACK B 40

TRANSITION STRIPS

TS-1 TRIM AT PORCELAIN WALL TILE EDGES
SCHLUTER SYSTEMS
JOLLY/SCHIENE
FINISH: BRUSHED CHROME ANODIZED ALUMINUM (ACGB)

TS-2 RESILIENT/ TO RESINOUS/CONCRETE FLOORING TRANSITION
SCHLUTER SYSTEMS
VINPRO-U
FINISH: BRUSHED CHROME ANODIZED ALUMINUM (ACGB)

TS-3 ATHLETIC WOOD FLOORING TO CONCRETE/LVT/CARPET
ROBBINS SPORTS SURFACES
MANUFACTURER-PROVIDED THRESHOLD COVER PLATE

TS-4 TRIM AT PORCELAIN TILE OUTER CORNERS
SCHLUTER SYSTEMS
RONDEC
FINISH: BRUSHED CHROME ANODIZED ALUMINUM (ACGB)

WALLS

PNT-1 GENERAL PAINT
SHERWIN-WILLIAMS
COLOR: LAZY GRAY SW 6254

PNT-2 TRIM PAINT/ACCENT PAINT
SHERWIN-WILLIAMS
COLOR: TRICORN BLACK SW 6258

PNT-3 ACCENT PAINT
SHERWIN-WILLIAMS
COLOR: CUSTOM - BLUE

CCE COLORANT	OZ	32	64	128
B1-BLACK	--	--	01	01
L1-BLUE	--	10	--	--
R3-MAGENTA	--	04	--	01

NOTE: COLOR RATIOS BASED ON 30.7 FL OZ

PNT-4 SOFFIT PAINT
SHERWIN-WILLIAMS
COLOR: WEB GRAY SW 7075

PNT-5 CEILING PAINT
SHERWIN-WILLIAMS
COLOR: PURE WHITE SW 7005

PWT-1 PORCELAIN WALL TILE
TRINITY SURFACES
STYLE: BLAIRE
COLOR: SILVER
SIZE: 12" x 24"
THICKNESS: 8MM
GROUT COLOR: LATICRETE 89 SMOKE GREY
INSTALLATION METHOD: HORIZONTAL STACK

GWT-1 GLAZED ACCENT WALL TILE
TRINITY SURFACES
COLLECTION: WALL TILE COLLECTION
COLOR: SOFT BLUE
FINISH: GLOSSY
SIZE: 3" X 12"
THICKNESS: 7.3MM
GROUT COLOR: LATICRETE 89 SMOKE GREY

GWT-2 GLAZED ACCENT WALL TILE
TRINITY SURFACES
COLLECTION: WREN
COLOR: CAMELIA
FINISH: GLOSSY
SIZE: 2" X 10"
THICKNESS: 8MM
GROUT COLOR: LATICRETE 89 SMOKE GREY

GWT-3 GLAZED ACCENT WALL TILE
TRINITY SURFACES
COLLECTION: WREN
COLOR: NERO, FLUTED
FINISH: GLOSSY
SIZE: 4" X 12"
THICKNESS: 11MM
GROUT COLOR: LATICRETE 89 SMOKE GREY
NOTE: GROUT RIDGES IN GWT-3 SIMILAR TO MOSAIC TILE.

CEILINGS

AC-PNL-A ACOUSTICAL CEILING TILE
ARMSTRONG CEILINGS
ULTIMA HIGH NRC
15/16" SQUARE LAY-IN
#1940
SIZE: 24" X 24" X 7/8"
COLOR: WHITE

AC-PNL-B ACOUSTICAL PANEL CEILING
VINYL COVERED GWB

MISCELLANEOUS

MTL-1 PERFORATED METAL INSULATED ACOUSTICAL PANEL
INTERIOR WALL LINER BY METAL BUILDING MFR.
SEE SPECS
COLOR: TBD

TP-1 SOLID PLASTIC (HDPE) TOILET PARTITIONS
NFPA 286 APPROVED
ASI ACCURATE PARTITIONS
COLOR: AZURE #9231

MILLWORK FINISHES

PL-1 HIGH PRESSURE LAMINATE
WILSONART
COLOR: ACORN VELVET ELM
FINISH: ULTRA MATTE
LOCATION: VERTICAL/CABINET SURFACES

SS-1 SOLID SURFACE
CORIAN
COLOR: EVEREST
LOCATION: COUNTERTOPS

SS-2 SOLID SURFACE
CORIAN
COLOR: SILVER GRAY
LOCATION: TOP CAPS

GENERAL NOTES

- ALL EXPOSED CEILINGS TO BE PAINTED PNT-5.
- PROVIDE ADA COMPLIANT METAL TRANSITION STRIPS AS REQUIRED WHERE CHANGES IN FLOORING MATERIAL OCCUR - SEE FINISH LEGEND FOR SPECIFIC APPLICATIONS.
- PROVIDE TRANSITION STRIPS/EDGE TRIM AT ALL PORCELAIN TILE LOCATIONS - SEE FINISH LEGEND FOR SPECIFIC APPLICATIONS.
- GYP BOARD WALL PAINT SHEEN TO BE EGGSHELL. CMU WALL PAINT SHEEN TO BE SEMI-GLOSS. ALL TRIM SURFACES TO RECEIVE SEMI-GLOSS SHEEN. GYP BOARD CEILING PAINT SHEEN TO BE FLAT.
- SEE SHEET A601 FOR FLOOR PATTERN PLAN AND INSTALLATION DIRECTIONS.
- PROVIDE 3MM PVC EDGE BANDING TO MATCH HIGH PRESSURE LAMINATES - SUBMIT PHYSICAL SAMPLES FOR COLOR APPROVAL.
- REFER TO PLUMB. AND ELEC. DWGS FOR REQUIREMENTS RELATED TO THOSE TRADES.
- ALL TOILET PARTITIONS TO BE TP-1.
- SEE SPECS FOR RESINOUS FLOORING WEARING SURFACE LOCATION REQUIREMENTS AND FLOOR SYSTEM DETAILS. SEE 2/A602 FOR RESINOUS BASE DETAIL.
- PROVIDE BLINDS IN WINDOWS AS INDICATED IN SPECS.

REFERENCE NOTES

1. SEE 1/A401 FOR DECORATIVE WALL TILE PATTERN. TILE PATTERN TO BE ON SINK WALL ONLY. ALL OTHER WALLS TO HAVE PWT-1 WAINSCOT TO 6'-6" A.F.F. - SEE INTERIOR ELEVATIONS.
2. SEE 2/A401 FOR TYPICAL WALL PAINT PATTERN. SEE FLOOR PATTERN/FINISH PLAN ON SHEET A601 FOR TYPICAL PAINT PATTERN LOCATIONS.
3. SEE FLOOR PATTERN/FINISH PLAN ON SHEET A601 FOR ACCENT PAINT LOCATIONS.
4. PROVIDE 9'-6" DIAMETER LVT LOGO CUT BY MANUFACTURER. SEE SHEET A601 FOR FLOOR LOGO DETAIL AND LOCATION.
5. MILLWORK FINISHES TO BE PL-1 ON VERTICAL/CABINET SURFACES AND SS-1 ON COUNTERTOP WITH EASED EDGE AND 4" BACK/SIDE SPLASHES. SEE INTERIOR ELEVATIONS AND SECTIONS.
6. PROVIDE LOGO GRAPHIC ON WALL PADS AS SHOWN ON ELEVATION 1/A402 & 2/A403 - TO BE APPROVED BY DESIGNER.
7. CONCESSION WINDOW TRANSACTION COUNTERTOP TO BE SS-1 WITH SS-1 SKIRT ON LOBBY SIDE AND PL-1 BASE CABINET ON CONCESSIONS SIDE. SEE INTERIOR ELEVATIONS.
8. PROVIDE 24" DEEP ADJUSTABLE PLASTIC LAMINATE (PL-1) SHELVING ON METAL STANDARDS.
9. SEE 1/A602 FOR ATHLETIC WOOD FLOORING DETAIL.
10. GYM STRUCTURE TO BE PAINTED PNT-1. SEE INTERIOR ELEVATIONS.
11. SEE ELEVATIONS AND FLOOR PATTERN PLAN FOR WALL PAD LOCATIONS.
12. PROVIDE WALL GRAPHICS - SEE ALLOWANCE SECTION IN PROJECT MANUAL.
13. SEE 3/A401 FOR TYPICAL COACHES' TLT TILE PATTERN.
14. SEE SHEET A/321 FOR SOLID SURFACE TOP CAP DETAILS.
15. PROVIDE PWT-1 WAINSCOT TO 6'-6" A.F.F. ON NORTH, SOUTH, AND WEST WALL. PROVIDE DECORATIVE WALL TILE PATTERN ON EAST WALL ONLY. PROVIDE PWT-1 TO FULL HEIGHT AT SHOWER ONLY. SEE INTERIOR ELEVATIONS.

1 FINISH SCHEDULE AND LEGEND
N.T.S.

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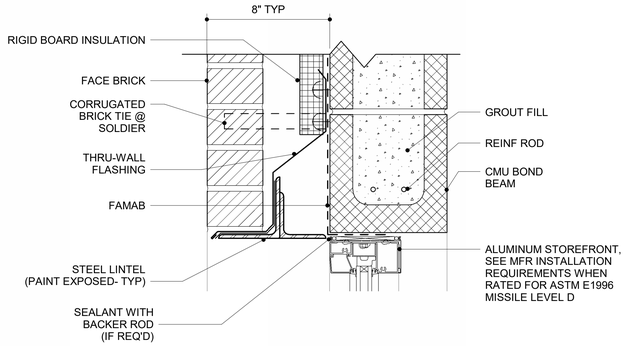
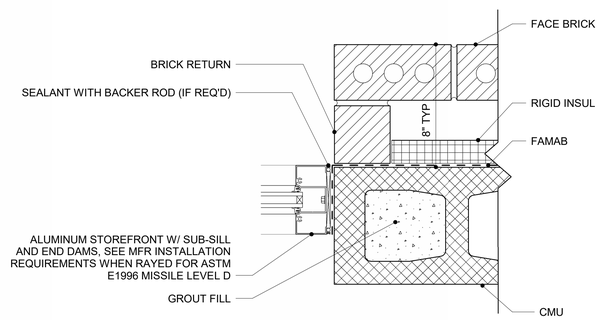
FINISH SCHEDULE & LEGEND

A001



4 STOREFRONT HEAD AT BRICK ON CMU WALL
3" = 1'-0"



3 STOREFRONT JAMB AT BRICK ON CMU WALL
3" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	FIRE RATING	DOOR WIDTH	DOOR HEIGHT	DOOR ELEV.	DOOR MATERIAL	DOOR GLAZING	FRAME ELEV.	FRAME MATERIAL	FRAME GLAZING	HARDWARE	SIGNAGE	COMMENTS	DOOR NUMBER
1101A	--	6'-0"	8'-0"	D4	FRP	G3	SF1	ALUM	G3	SET #1	--	1, 3, 4	1101A
1101B	--	6'-0"	8'-0"	D4	FRP	G3	SF1	ALUM	G3	SET #1	--	1, 3, 4	1101B
1101C	--	6'-0"	8'-0"	D4	FRP	G3	SF1	ALUM	G3	SET #1	--	1, 3, 4	1101C
1101D	--	6'-0"	8'-0"	D4	FRP	G3	SF1	ALUM	G3	SET #1	--	1, 3, 4	1101D
1102A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #8	B	--	1102A
1102B	--	12'-0"	3'-10"	D6	MFR	--	MFR	MFR	--	SET #13	--	2	1102B
1103A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #6	--	--	1103A
1104A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #7	B	--	1104A
1105A	--	6'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #4	--	1	1105A
1106A	--	3'-0"	7'-0"	D2	WD	G1	F2	HM	--	SET #9	--	--	1106A
1106B	--	6'-0"	7'-0"	D2	WD	G1	F2	HM	--	SET #3	--	1	1106B
1106C	--	6'-0"	7'-0"	D2	WD	G1	F2	HM	--	SET #3	--	1	1106C
1106D	--	3'-0"	7'-0"	D2	WD	G1	F2	HM	--	SET #9	--	--	1106D
1106E	--	6'-0"	7'-0"	D4	FRP	G3	SF2	ALUM	G3	SET #1	--	1, 3, 4	1106E
1106F	--	6'-0"	7'-0"	D4	FRP	G1	SF2	ALUM	G3	SET #1	--	1	1106F
1106G	--	6'-0"	7'-0"	D4	FRP	G3	SF2	ALUM	G3	SET #1	--	1, 3, 4	1106G
1106H	--	6'-0"	7'-0"	D4	FRP	G3	SF2	ALUM	G3	SET #1	--	1, 3, 4	1106H
1107A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #10	--	--	1107A
1108A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #10	B	--	1108A
1109A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #11	A	--	1109A
1110A	--	3'-0"	7'-0"	D1	FRP	--	SF4	ALUM	--	SET #2	--	3, 4	1110A
1111A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #12	B	--	1111A
1113A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #7	--	5	1113A
1114A	--	3'-0"	7'-0"	D2	WD	G1	F1	HM	--	SET #8	B	--	1114A
1115A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #11	--	--	1115A
1116A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #6	--	--	1116A
1117A	--	3'-0"	7'-0"	D2	WD	G1	F1	HM	--	SET #10	B	--	1117A
1117B	--	3'-0"	7'-0"	D2	WD	G1	F1	HM	--	SET #10	B	--	1117B
1118A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #7	B	--	1118A
1119A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #6	B	--	1119A
1120A	--	3'-0"	7'-0"	D2	WD	G1	F1	HM	--	SET #8	B	--	1120A
1121A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #11	--	--	1121A
1122A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #6	--	--	1122A
1123A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #10	--	--	1123A
1124A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #10	B	--	1124A
1126A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #7	--	5	1126A
1127A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #10	B	--	1127A
1128A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #11	A	--	1128A
1129A	--	3'-0"	7'-0"	D1	FRP	--	SF4	ALUM	--	SET #2	--	3, 4	1129A
1130A	--	6'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #5	B	1	1130A
1132A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #12	A	--	1132A
1133A	--	2'-6"	7'-0"	D1	WD	--	F1	HM	--	SET #7	--	--	1133A
1134A	--	3'-0"	7'-0"	D1	WD	--	F1	HM	--	SET #12	A	--	1134A
1140A	--	8'-0"	7'-0"	D1	FRP	--	F3	HM	--	SET #14	--	--	1140A

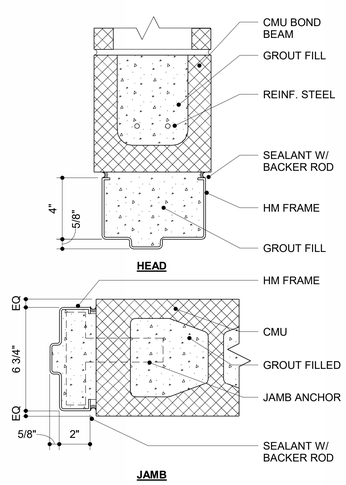
DOOR SCHEDULE LEGEND:
ALUM - ALUMINUM
HM - HOLLOW METAL
MFR - MANUFACTURER'S STANDARD
WD - WOOD

GLAZING LEGEND:
G1 - CLEAR TEMPERED GLASS
G2 - TEMPERED SAFETY GLASS
G3 - IMPACT-RESISTANT GLASS

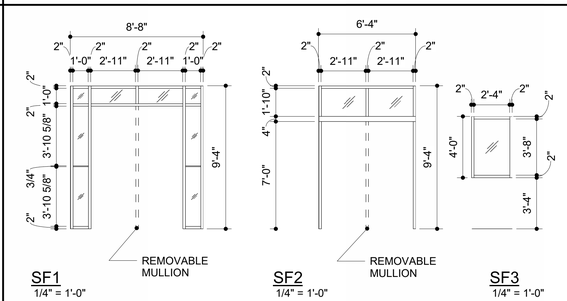
SCHEDULE COMMENTS:
1. PAIR OF DOORS
2. COUNTER-TOP COILING DOOR
3. LARGE MISSLE IMPACT RESISTANT DOOR MEETING ASTM E1996
4. LARGE MISSLE IMPACT RESISTANT FRAME MEETING ASTM E1996
5. SMOKE RESISTANT CONSTRUCTION WITH CLOSER

STOREFRONT SCHEDULE

STOREFRONT MARK	FIRE RATING	OPENING WIDTH	OPENING HEIGHT	FRAME MATERIAL	FRAME GLAZING	COMMENTS
SF1	--	8'-8"	9'-4"	ALUM	G3	4
SF2	--	6'-4"	9'-4"	ALUM	G3	4
SF3	--	2'-8"	4'-0"	HM	G1	--
SF4	--	3'-4"	7'-4"	ALUM	--	4



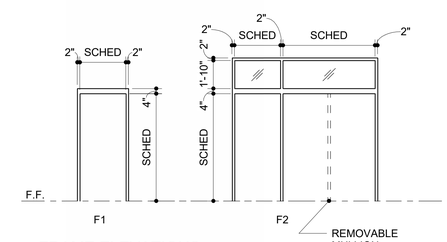
1 HM FRAME AT INTERIOR CMU WALL
3" = 1'-0"



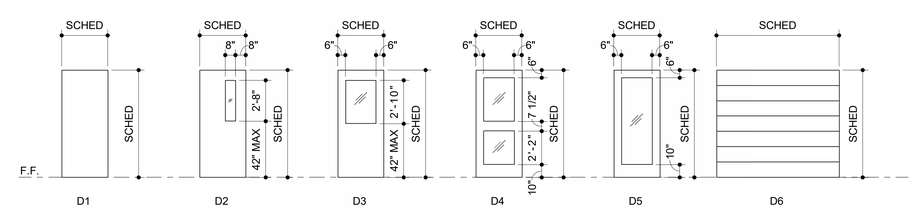
SF1
1/4" = 1'-0"

SF2
1/4" = 1'-0"

SF3
1/4" = 1'-0"



FRAME ELEVATIONS
1/4" = 1'-0"



DOOR ELEVATIONS
1/4" = 1'-0"

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OPENING SCHEDULES & DETAILS

A002

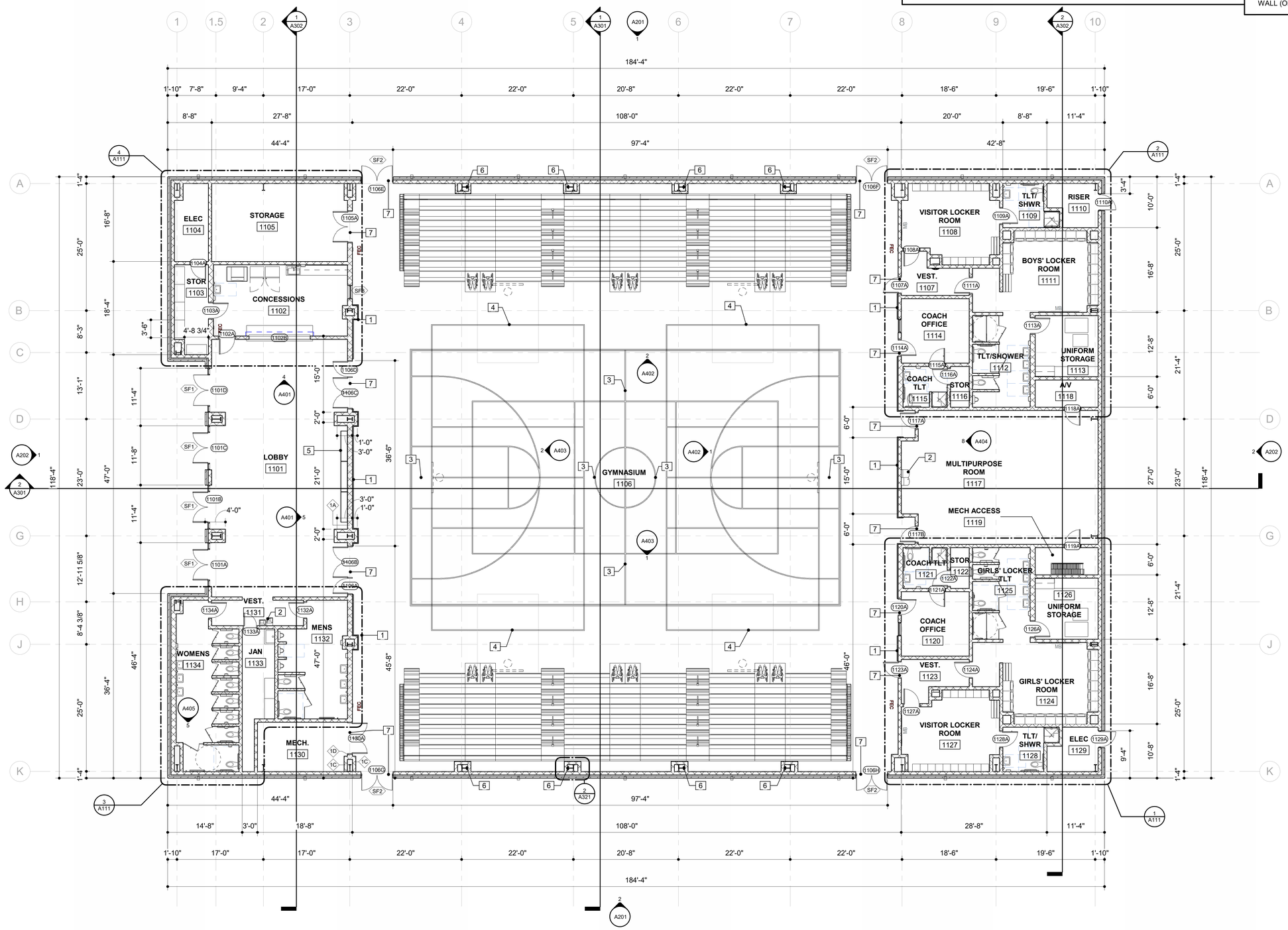
REFERENCE NOTES	
NUMBER	NOTE
1	WALL PADS; SEE SPECS
2	WATER FOUNTAIN WITH BOTTLE FILLER; SEE SPECS
3	RECESSED POST MOUNTS W/ COVERS; SEE SPECS
4	SEE A601 FOR STRIPING
5	DISPLAY CASE, SEE SPECS.
6	PEMB BRACING ELEMENT IS REQUIRED TO BE A PORTAL FRAME. STEEL X-BRACING WILL NOT BE ACCEPTED.
7	THRESHOLD BY WOOD GYM FLOORING PROVIDER

DRAWING LEGEND:

- STUD WALL
- CMU WALL

SEE A314 FOR WALL PARTITION TYPES, ALL WALLS TYPICAL WALL TYPE U.N.O.

ALL DOORS ARE 4" FROM FACE OF WALL (ON HINGE SIDE) U.N.O.



1 FLOOR PLAN - BASE BID
1/8" = 1'-0"

0" 4'-0" 8'-0" 16'-0" 32'-0"

N

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REVISIONS

#	DESC	DATE

FLOOR PLAN

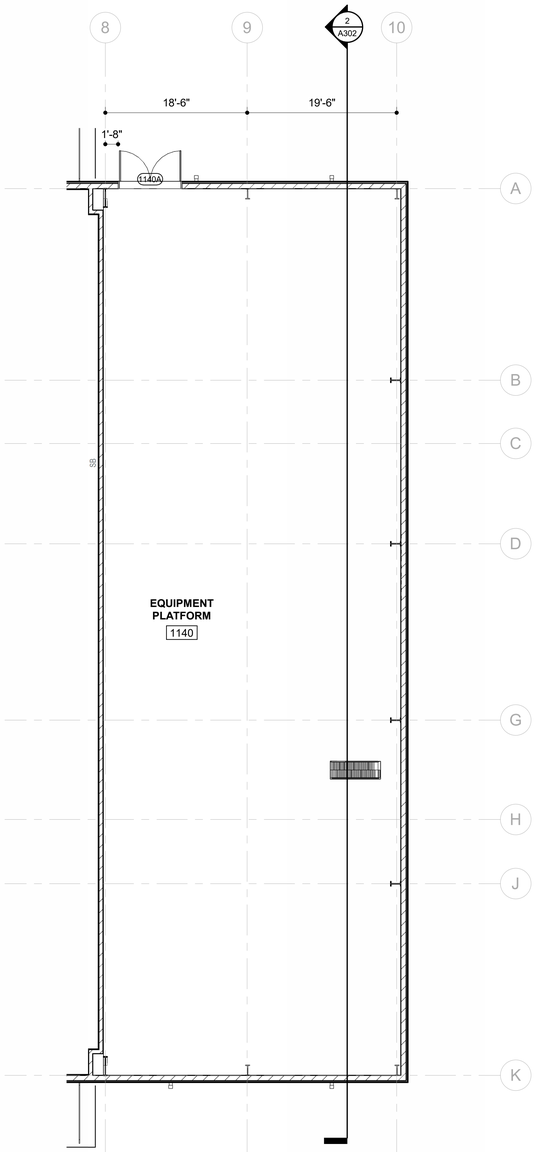
A101

DRAWING LEGEND:

- STUD WALL
- CMU WALL

SEE A314 FOR WALL PARTITION TYPES, ALL WALLS TYPICAL WALL TYPE U.N.O.

ALL DOORS ARE 4" FROM FACE OF WALL (ON HINGE SIDE) U.N.O.



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

N

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REGISTERED ARCHITECT

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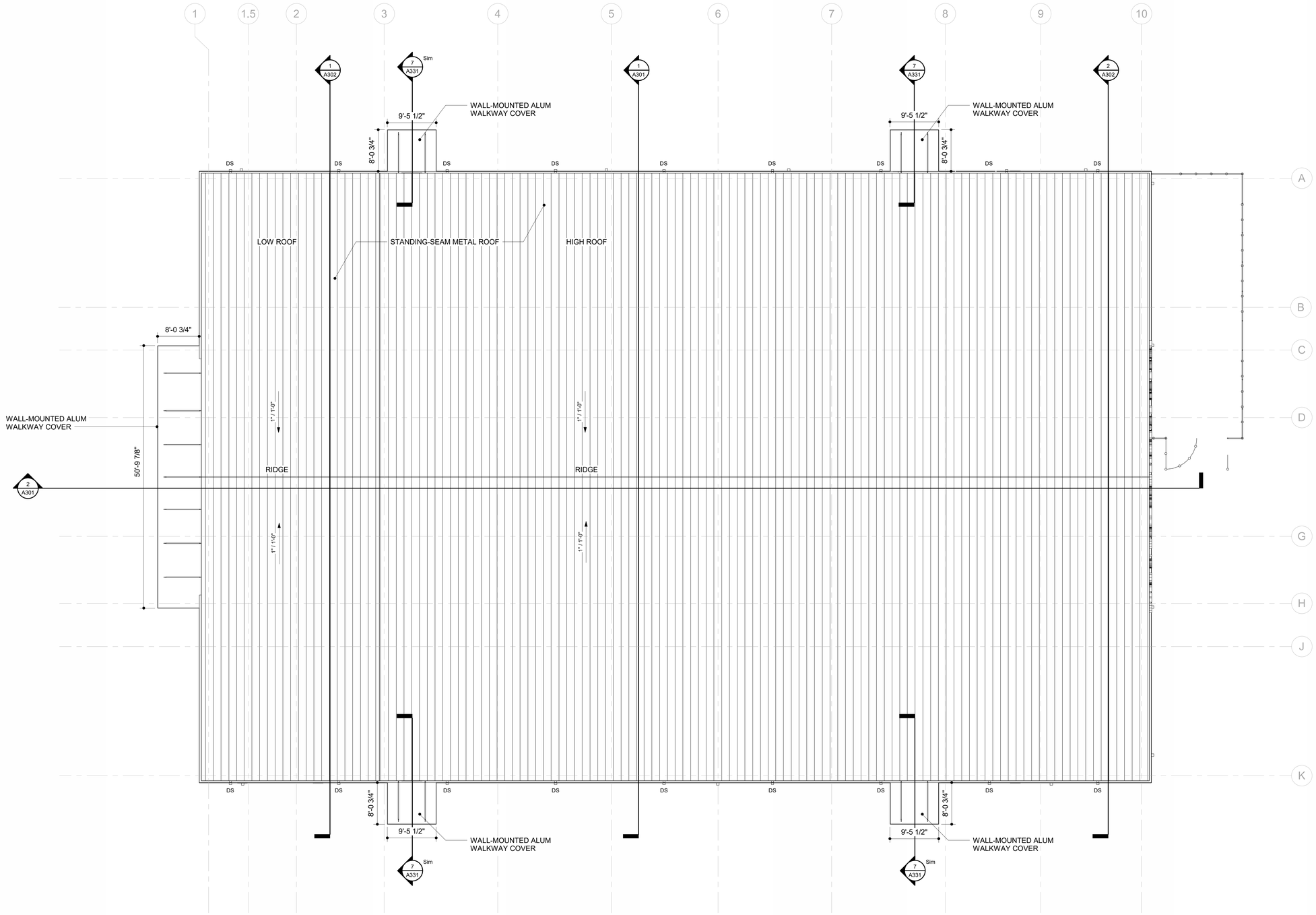
EQUIPMENT PLATFORM PLAN

A102



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

N

4'-0" 16'-0"
0" 8'-0" 32'-0"

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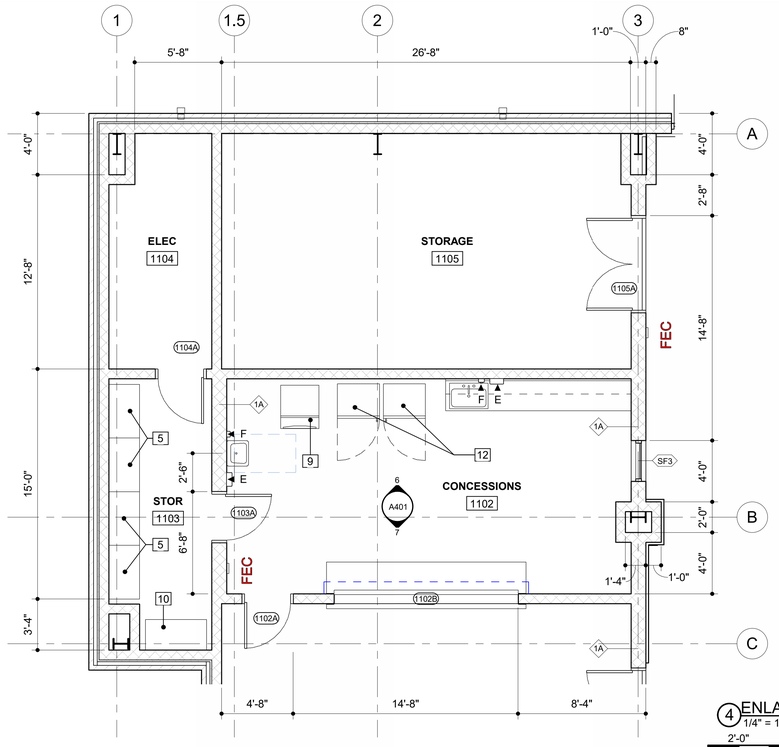
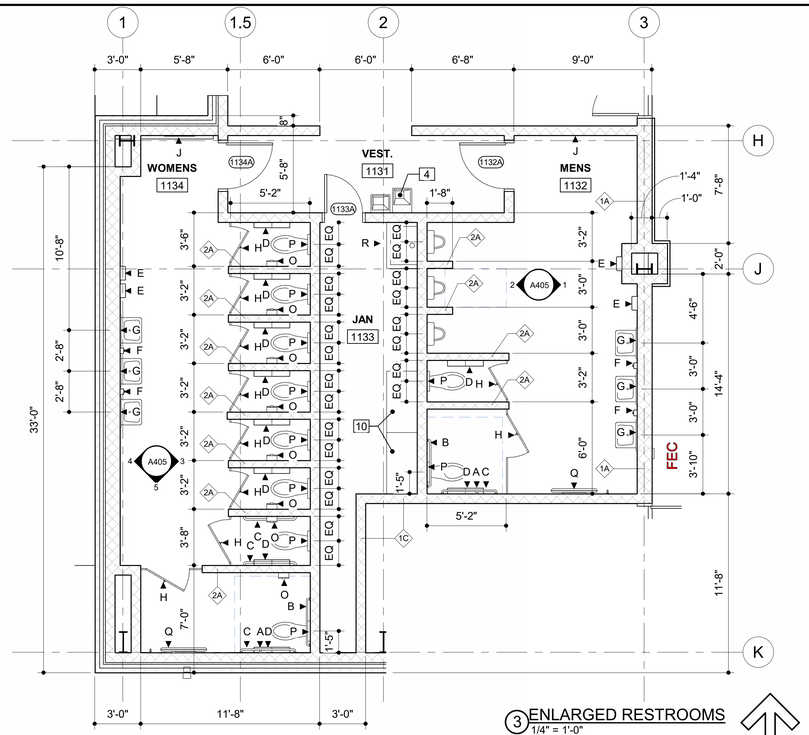
ROOF PLAN

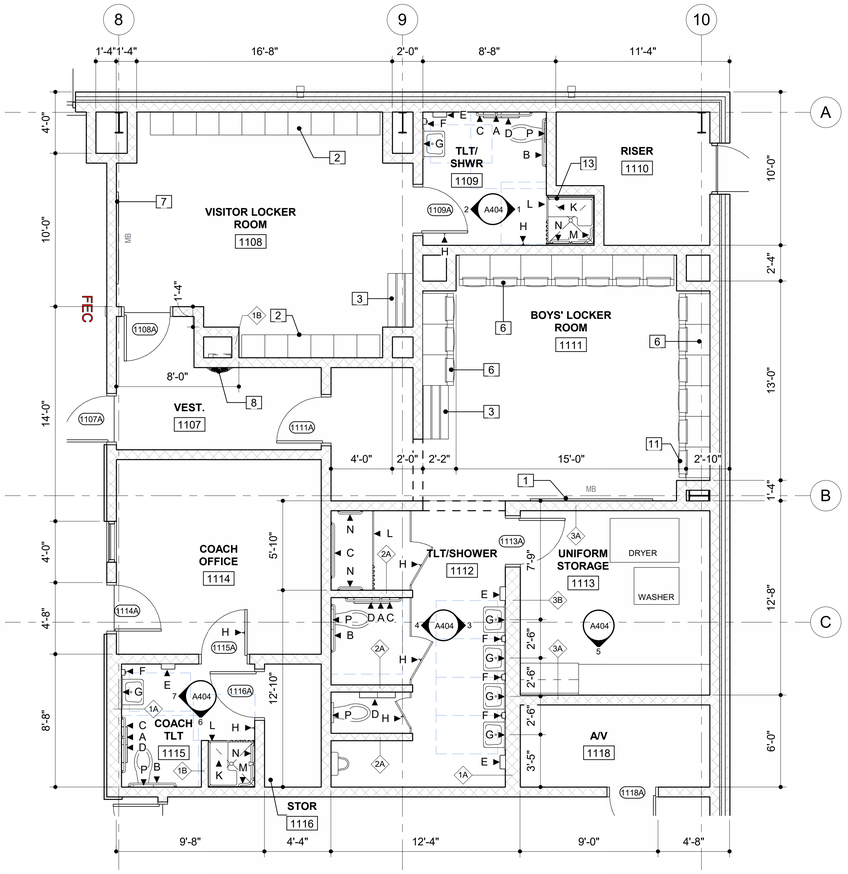
A104



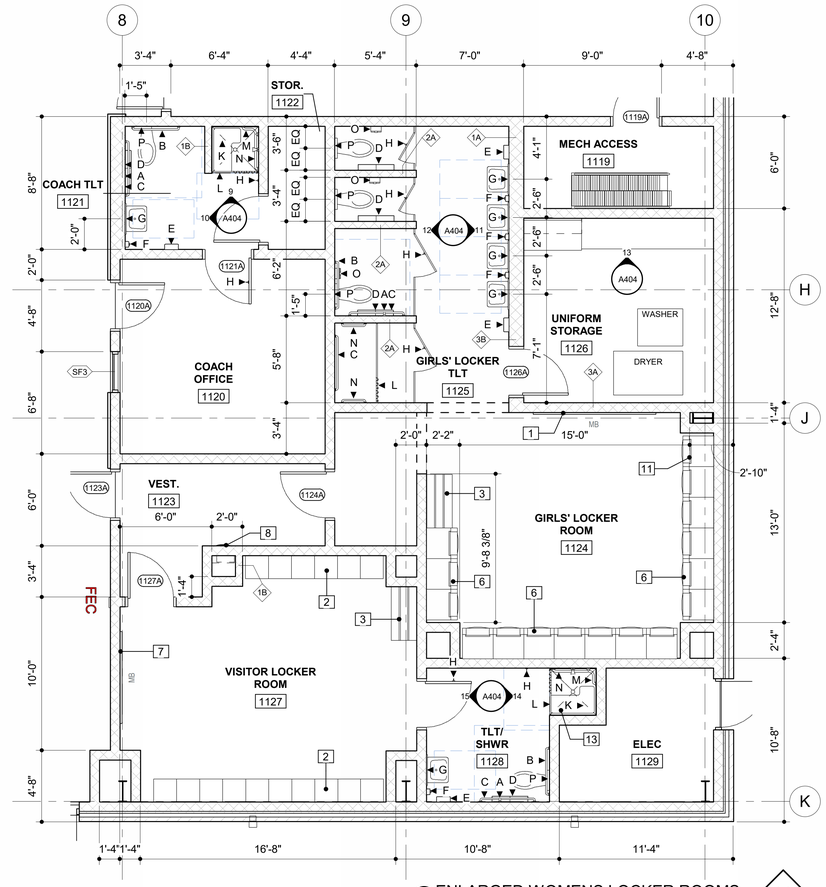
4 ENLARGED CONCESSIONS
1/4" = 1'-0"



3 ENLARGED RESTROOMS
1/4" = 1'-0"



2 ENLARGED MENS LOCKER ROOMS
1/4" = 1'-0"



1 ENLARGED WOMENS LOCKER ROOMS
1/4" = 1'-0"

DRAWING LEGEND:

- STUD WALL
- CMU WALL

SEE A314 FOR WALL PARTITION TYPES, ALL WALLS TYPICAL WALL TYPE U.N.O.

ALL DOORS ARE 4" FROM FACE OF WALL (ON HINGE SIDE) U.N.O.

TOILET ACCESSORY SCHEDULE:

- A 18" VERTICAL GRAB BAR
- B 36" GRAB BAR
- C 42" GRAB BAR
- D TOILET TISSUE DISPENSER OFCI.
- E PAPER TOWEL HOLDER OFCI.
- F SOAP DISPENSER OFCI.
- G 24" X 36" MIRROR
- H ROBE HOOK
- J 24" X 60" MIRROR
- K SHOWER SEAT
- L SHOWER CURTAIN AND ROD
- M 18" HORIZONTAL GRAB BAR
- N 30" HORIZONTAL GRAB BAR
- O SANITARY NAPKIN HOLDER OFCI.
- P TOILET SEAT COVER DISPENSER OFCI.
- Q BABY CHANGING STATION
- R MOP SINK

REFERENCE NOTES	
NUMBER	NOTE
1	4'x8' MARKERBOARD MOUNTED 36" A.F.F. TO CHALK TRAY; SEE SPECS
2	TWO TIER METAL LOCKERS; SEE SPECS.
3	ADA COMPLIANT BENCH; SEE SPECS
4	WATER FOUNTAIN WITH BOTTLE FILLER; SEE SPECS
5	24" x 42" WIRE SHELVING, SEE SPECS.
6	METAL SIT-IN LOCKER, SEE SPECS
7	4'x6' MARKERBOARD MOUNTED 36" A.F.F. TO CHALK TRAY; SEE SPECS
8	BOTTLE FILLER; SEE SPECS
9	ICE MACHINE, C.F.C.I.
10	24" X 48" WIRE SHELVING, SEE SPECS.
11	PROVIDE ADA COMPLIANT METAL SIT-IN LOCKER
12	COOLER, C.F.C.I.
13	FIBERGLASS SHOWER UNIT - SEE SPECS; COORDINATE ADJACENT WALLS W/ MANUFACTURER'S CLEAR WIDTH FOR INSTALLATION.

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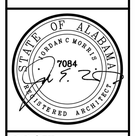

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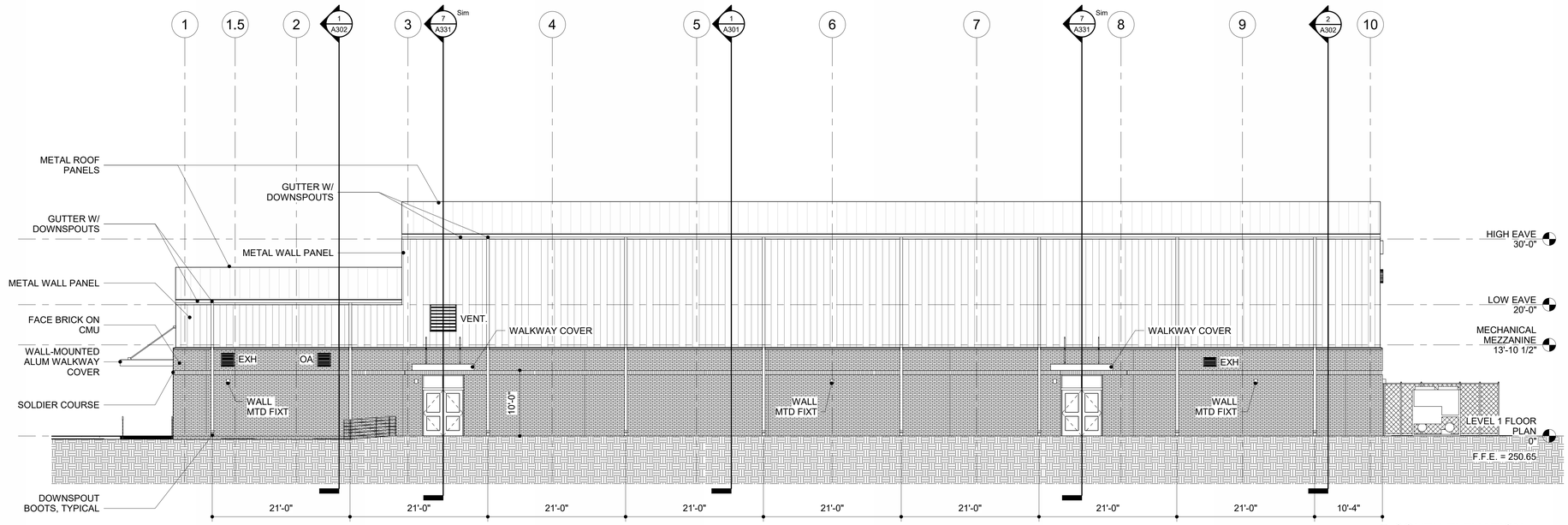
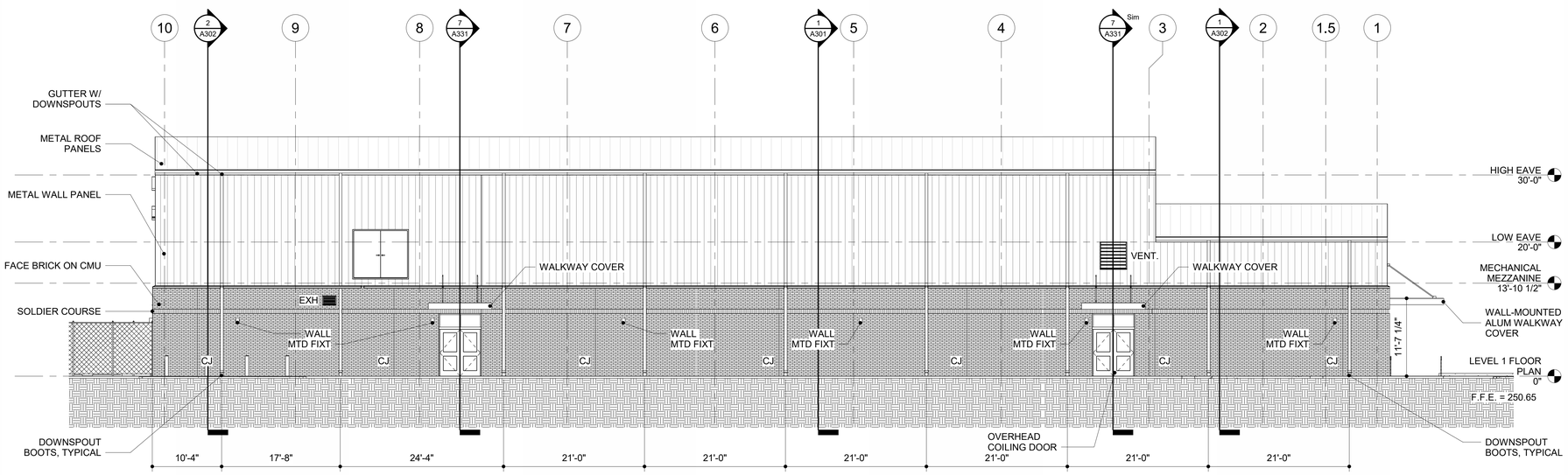
ENLARGED PLANS

A111



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

4'-0" 16'-0"
0" 8'-0" 32'-0"



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

4'-0" 16'-0"
0" 8'-0" 32'-0"

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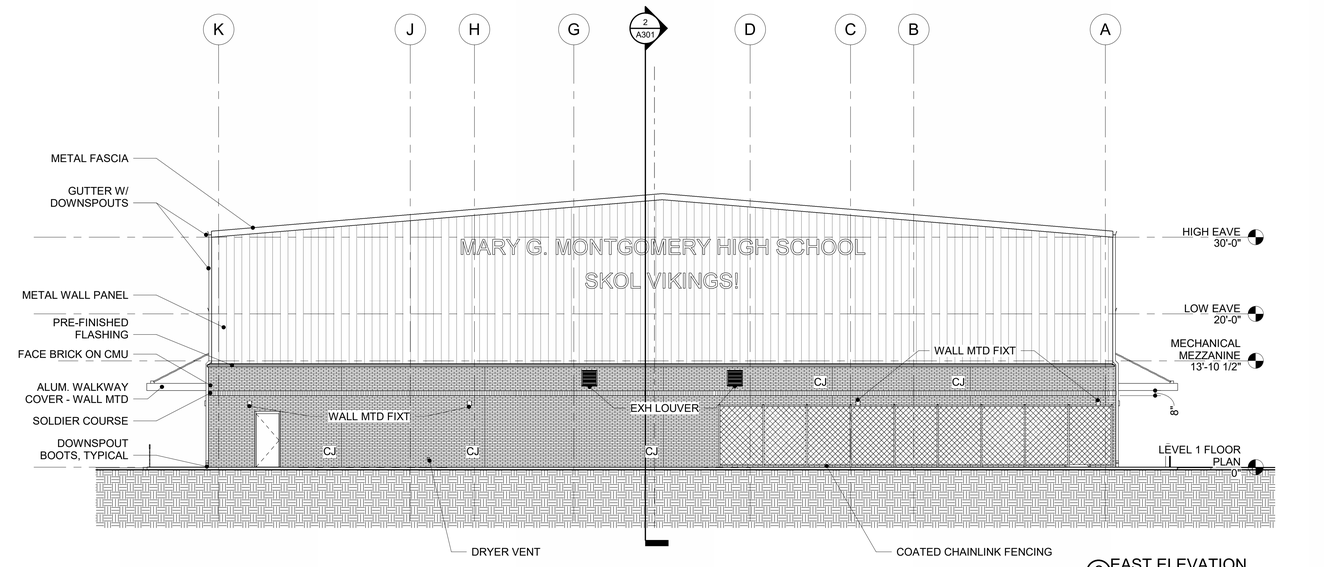
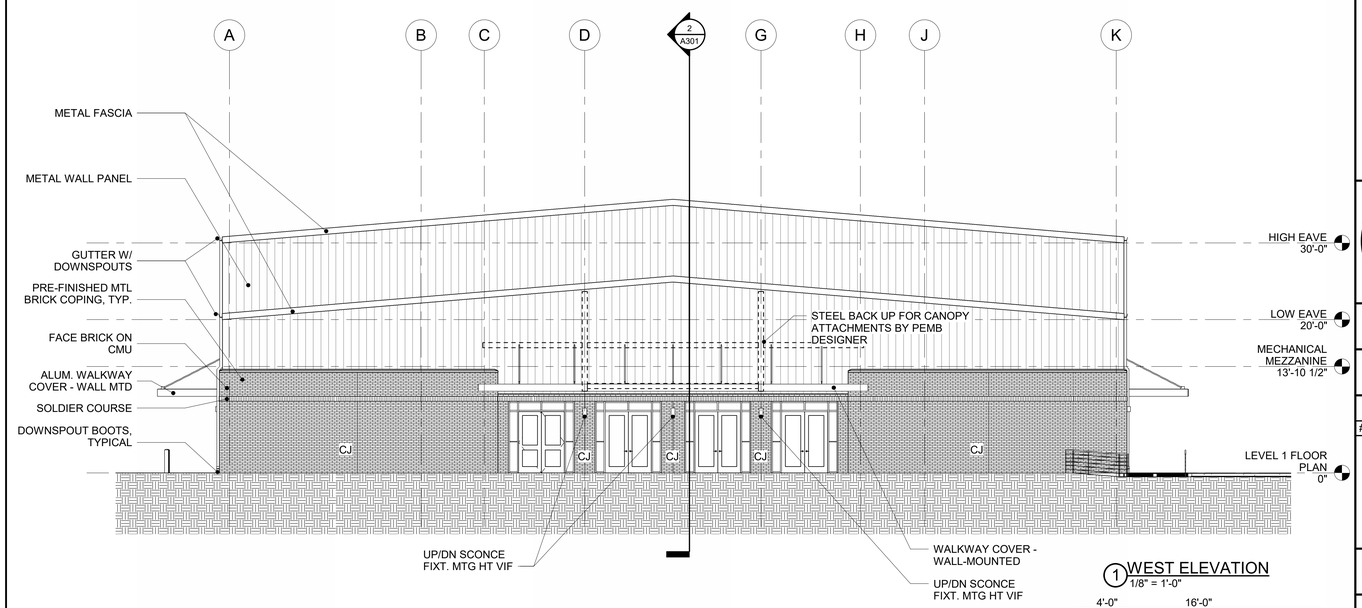
EXTERIOR ELEVATIONS

A201



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

4'-0" 16'-0"
0" 8'-0" 32'-0"



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

4'-0" 16'-0"
0" 8'-0" 32'-0"

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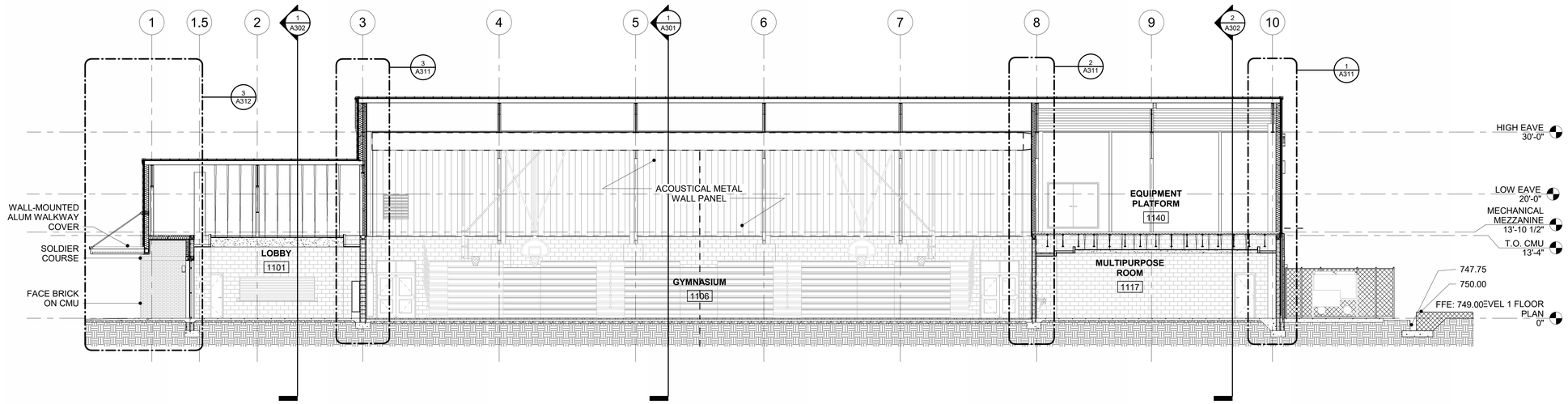
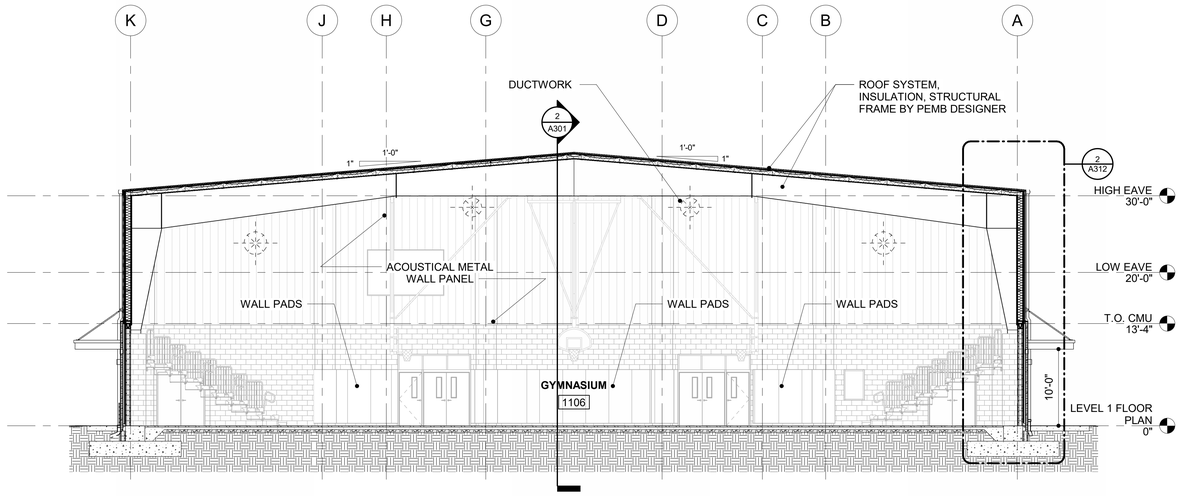
EXTERIOR ELEVATIONS

A202



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

4'-0" 16'-0"
0" 8'-0" 32'-0"



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

4'-0" 16'-0"
0" 8'-0" 32'-0"

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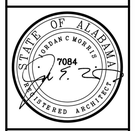

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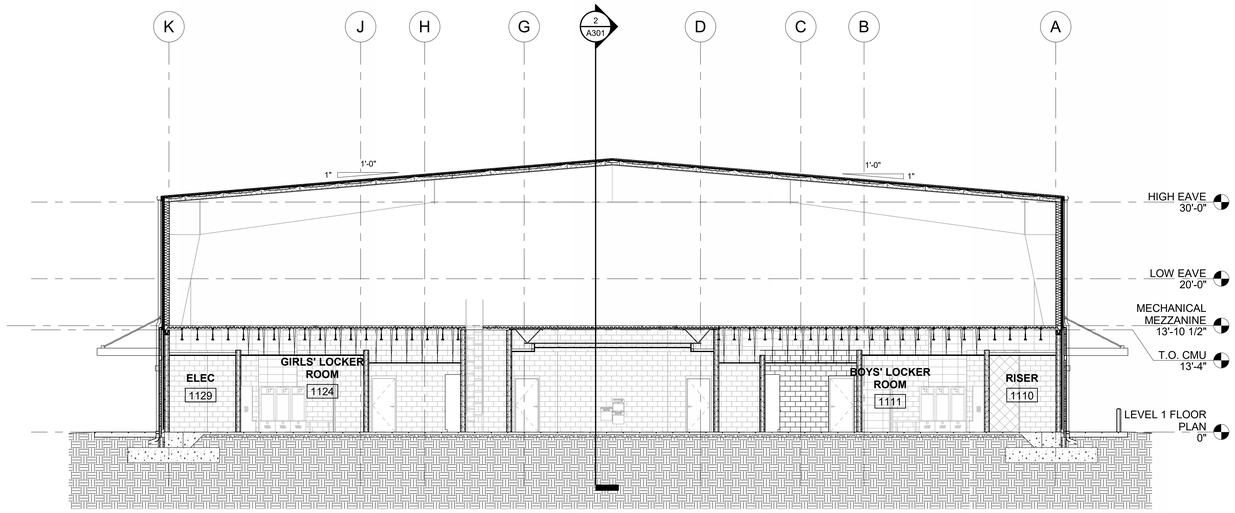
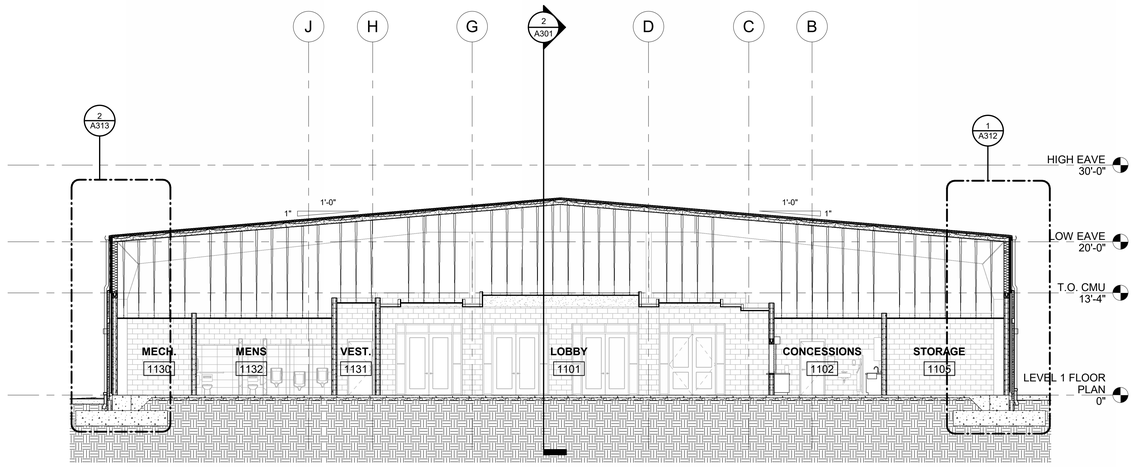
BUILDING SECTIONS

A301



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

4'-0" 16'-0"
0" 8'-0" 32'-0"



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

4'-0" 16'-0"
0" 8'-0" 32'-0"

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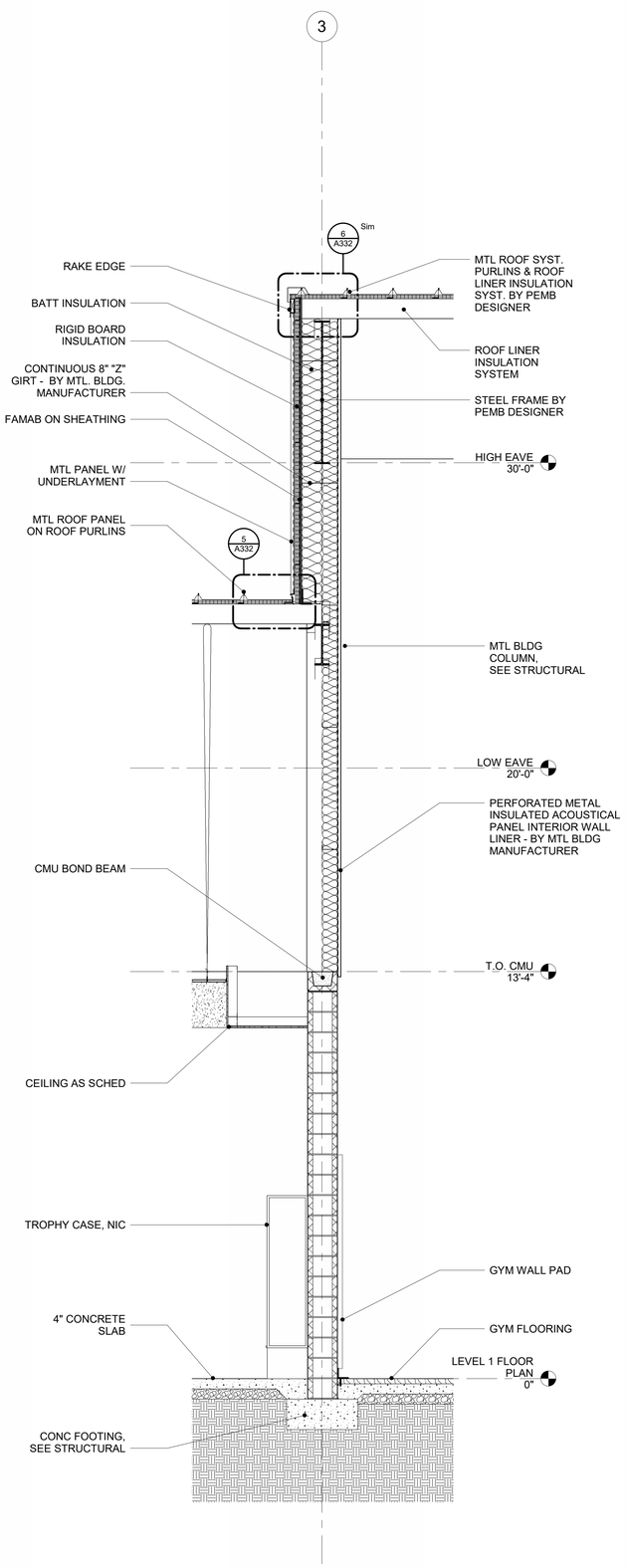
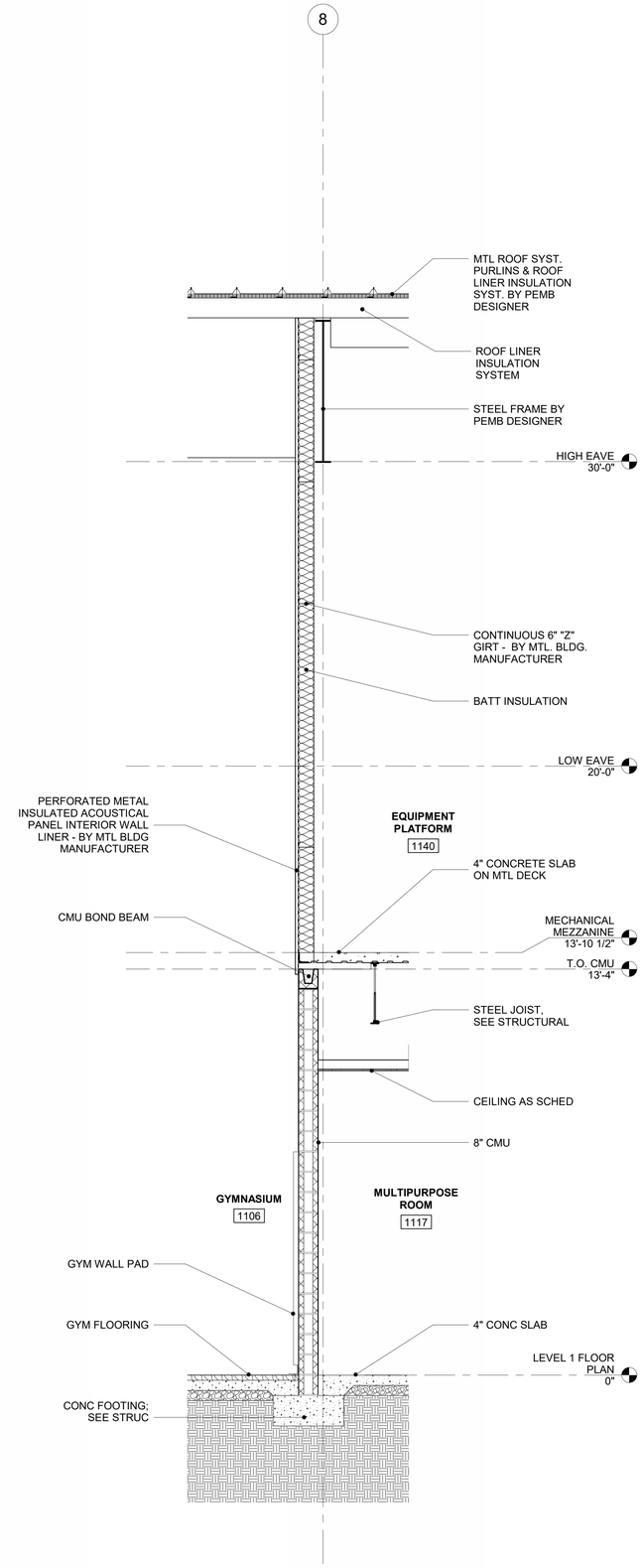
BUILDING SECTIONS

A302



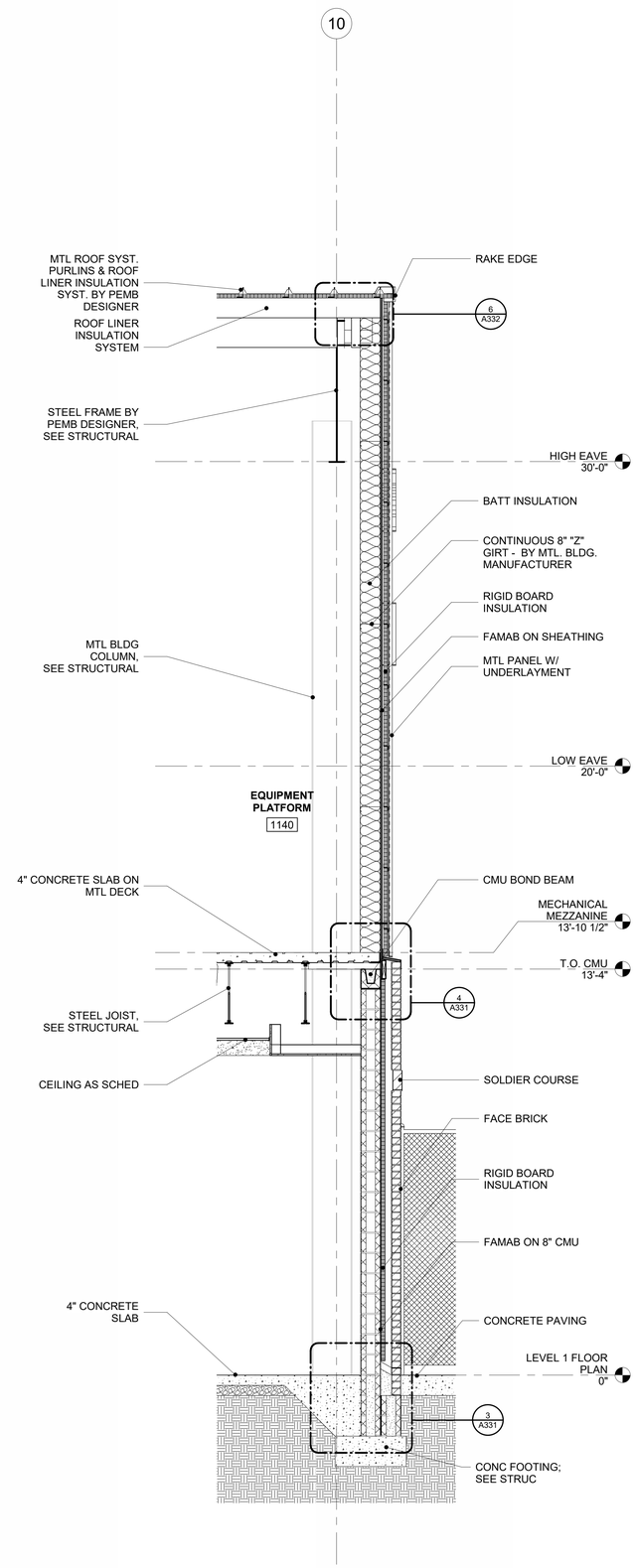
3 WALL SECTION
1/2" = 1'-0"

1'-0" 4'-0"
0" 2'-0" 8'-0"



2 WALL SECTION
1/2" = 1'-0"

1'-0" 4'-0"
0" 2'-0" 8'-0"



1 WALL SECTION
1/2" = 1'-0"

1'-0" 4'-0"
0" 2'-0" 8'-0"

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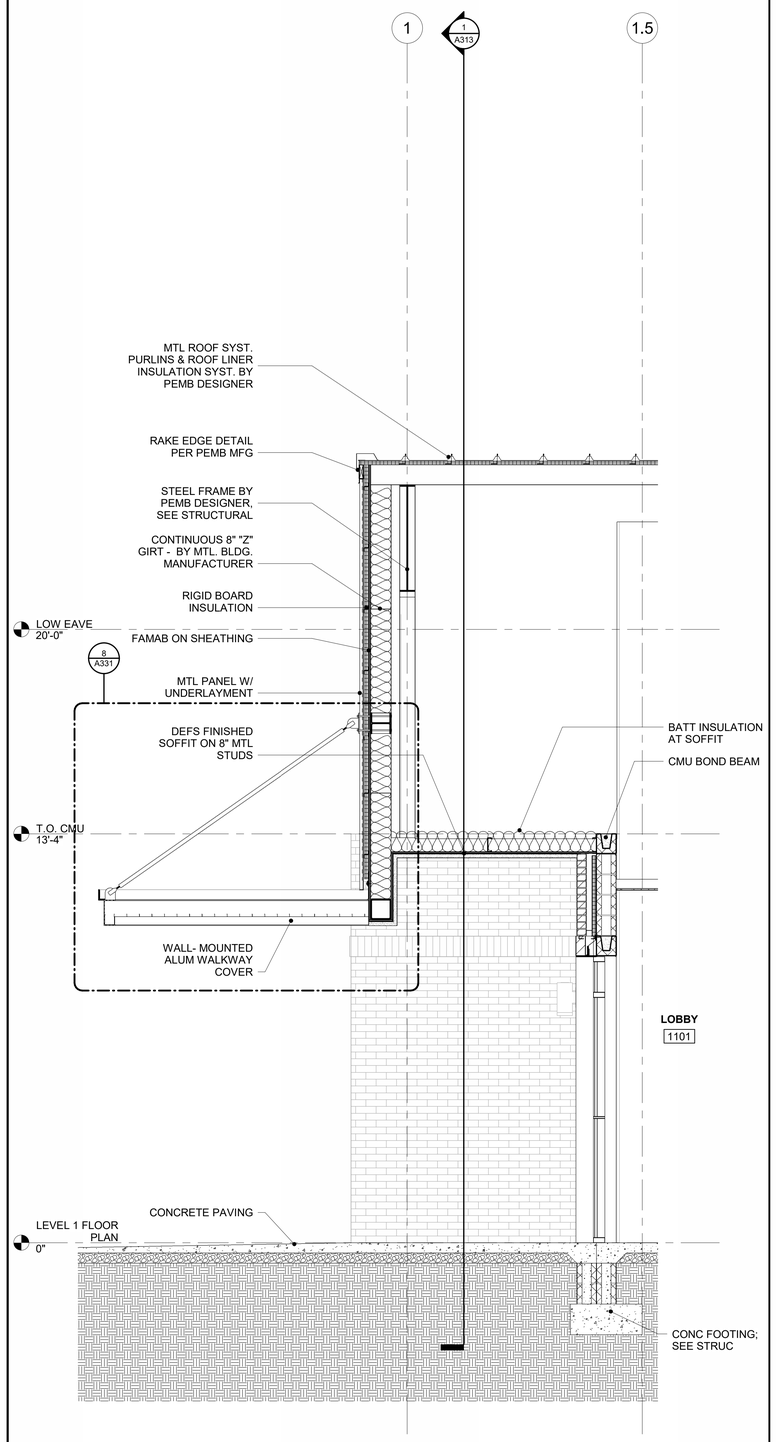
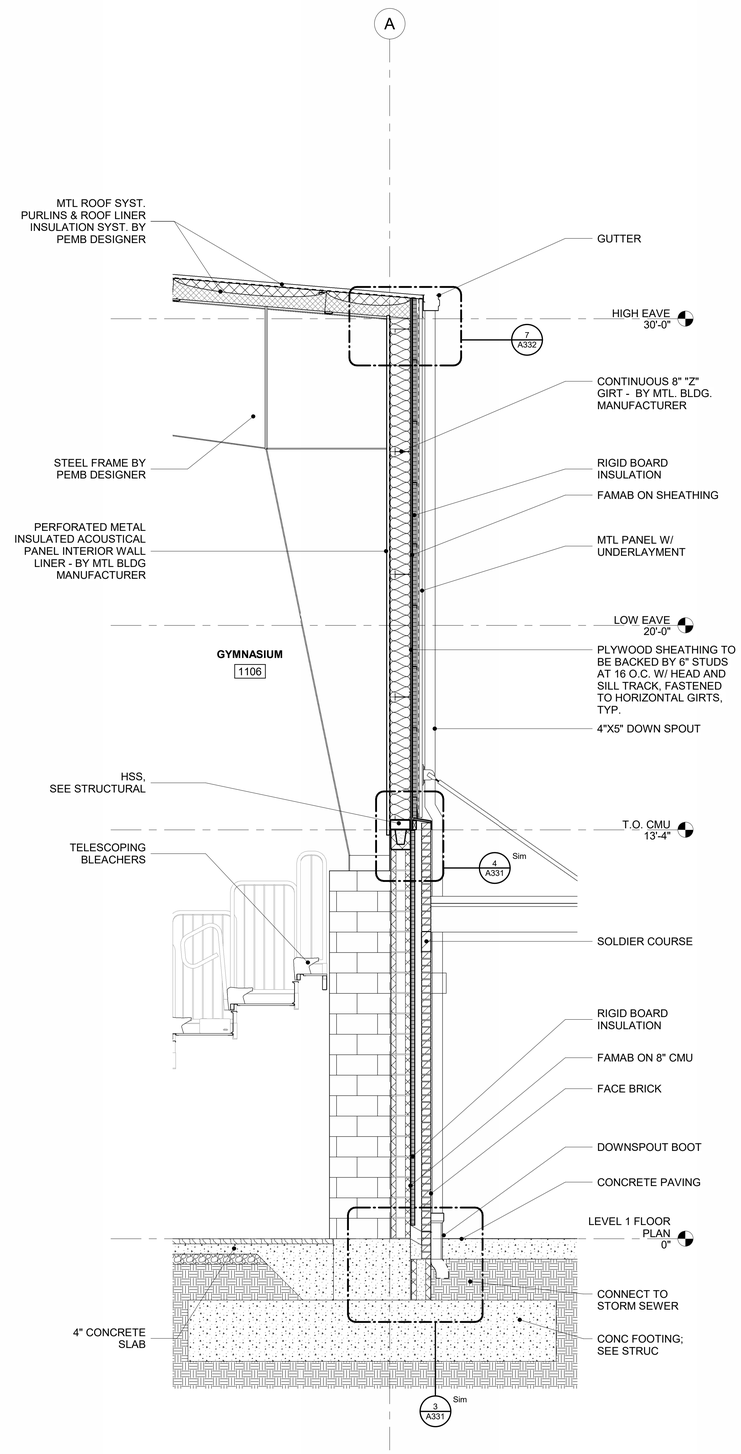
WALL SECTIONS

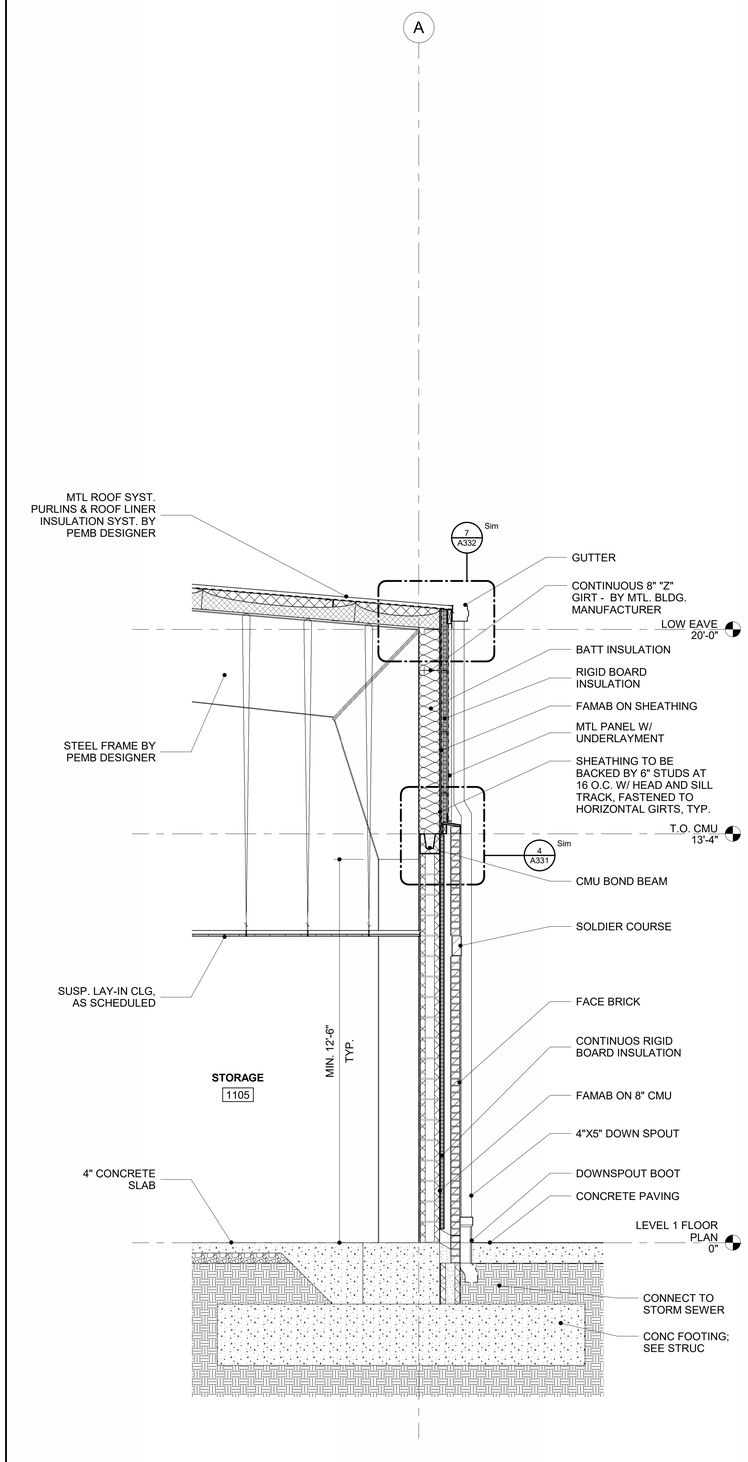
A311



3 WALL SECTION - ENTRANCE WALL AT MAIN ENTRY
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



1 WALL SECTION
1/2" = 1'-0"

1'-0" 4'-0"
0" 2'-0" 8'-0"

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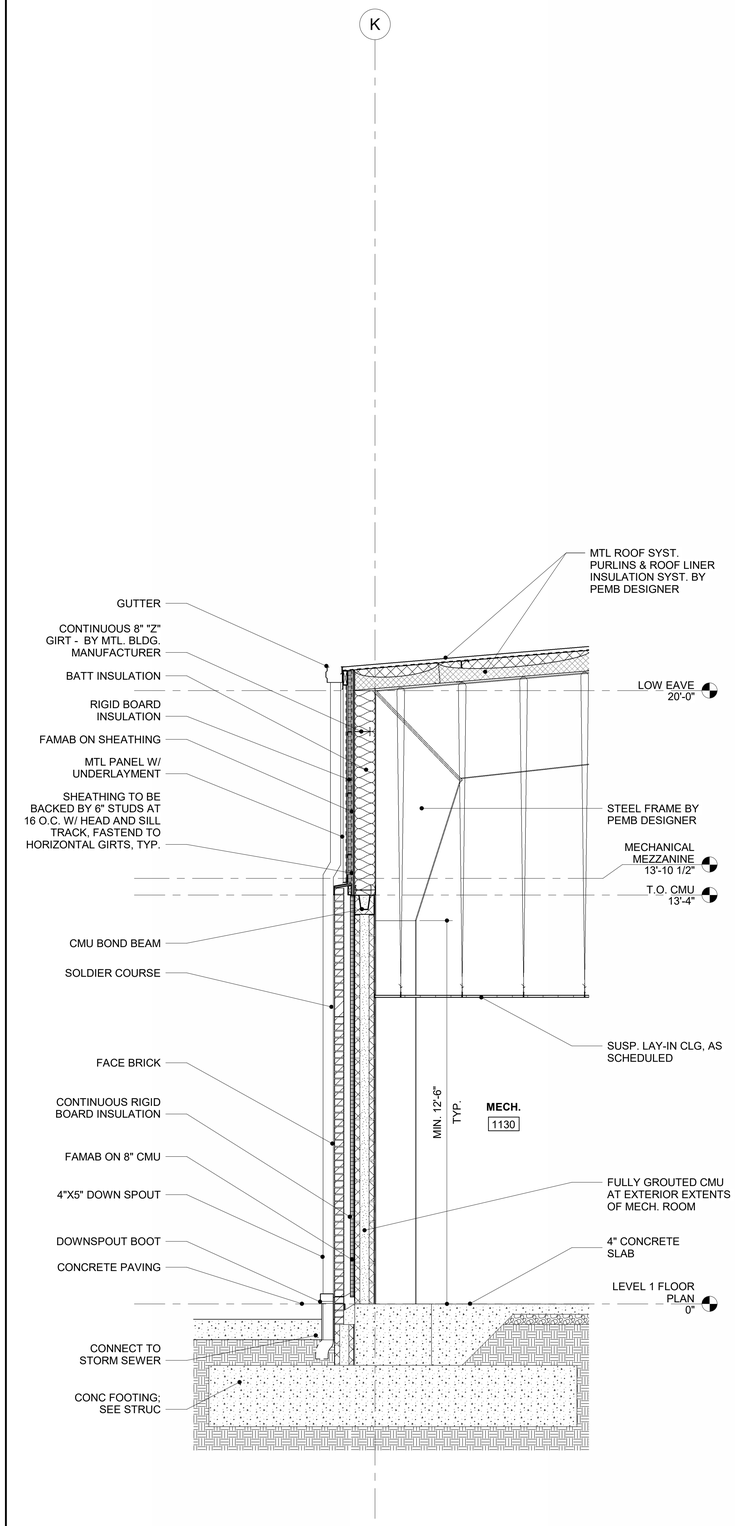
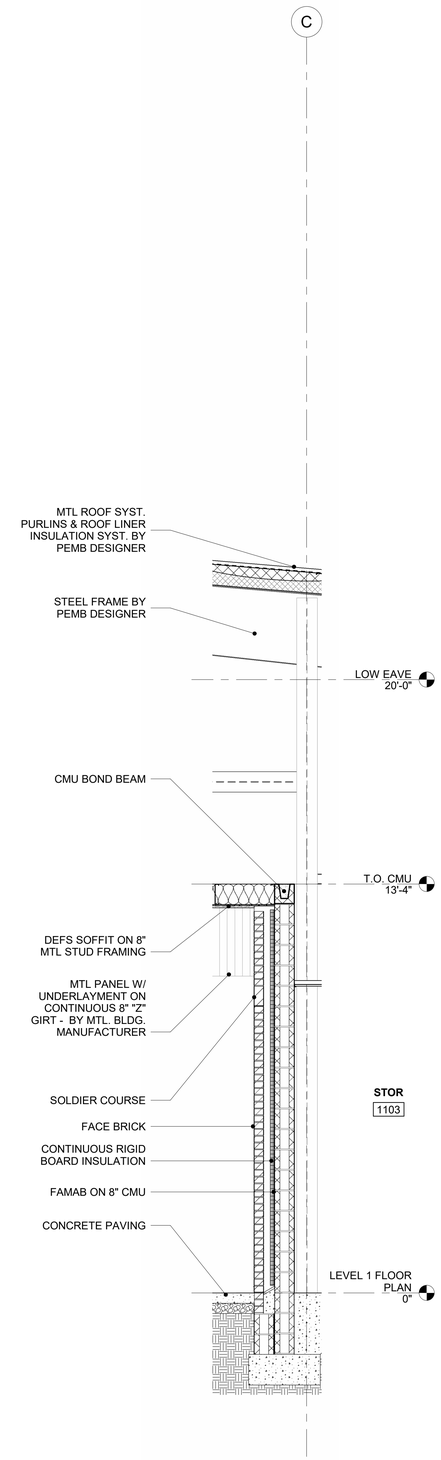
WALL SECTIONS

A312



2 WALL SECTION - PERIMETER WALL AT MECH. ROOM
1/2" = 1'-0"



1 WALL SECTION - PERIMETER WALL AT MAIN ENTRY
1/2" = 1'-0"

1'-0" 4'-0"
0" 2'-0" 8'-0"

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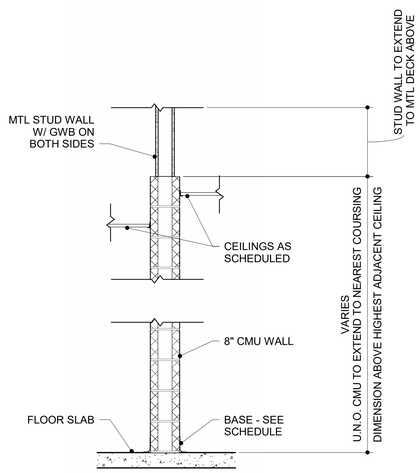
WALL SECTIONS

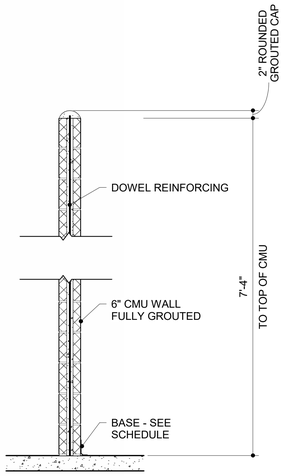
A313



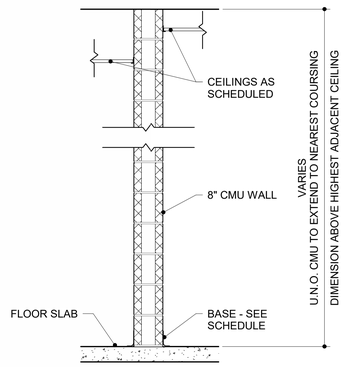
3A - WALL TYPE AS SHOWN

3B - SIMILAR WITH 12" CMU

NOTE: ALL TYPE 3 PARTITION WALLS MUST RESIST THE PASSAGE OF SMOKE. ALL PENETRATIONS AND SEAMS ARE TO BE SEALED.



2A - WALL TYPE AS SHOWN



TYPICAL WALL TYPE AS SHOWN, U.N.O.

1A - SIMILAR WITH 12" CMU

1B - SIMILAR WITH 6" CMU

1C - SIMILAR WITH FULLY GROUT FILLED 8" CMU

1D - SIMILAR WITH FULLY GROUT FILLED 12" CMU

1 WALL PARTITION TYPES

3/4" = 1'-0"

8" 2'-8"

0" 1'-4" 5'-4"

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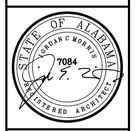

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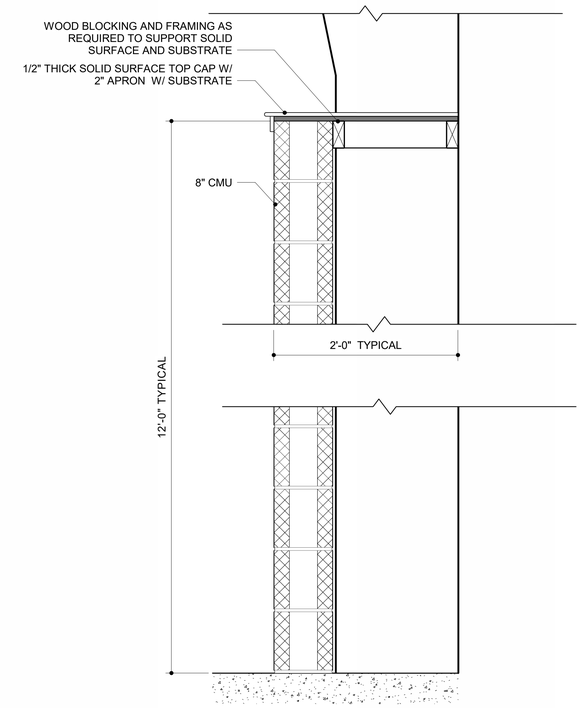
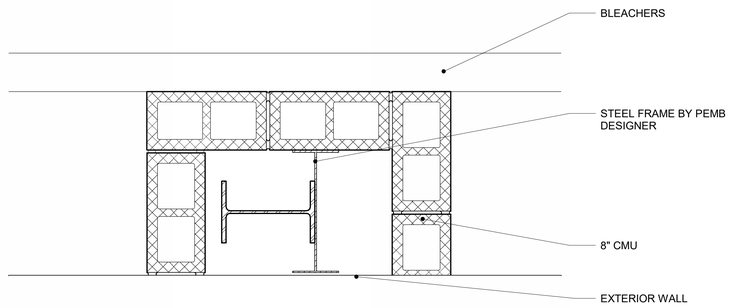
WALL PARTITION TYPES

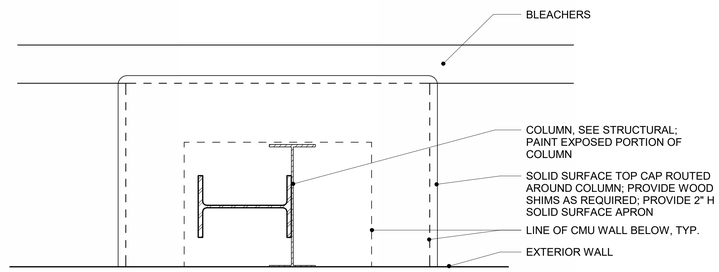
A314



3 DETAIL - COLUMN WRAP SECTION
1 1/2" = 1'-0"



2 DETAIL - COLUMN WRAP
1 1/2" = 1'-0"



1 GYM COLUMN FINISH DETAIL
1 1/2" = 1'-0"

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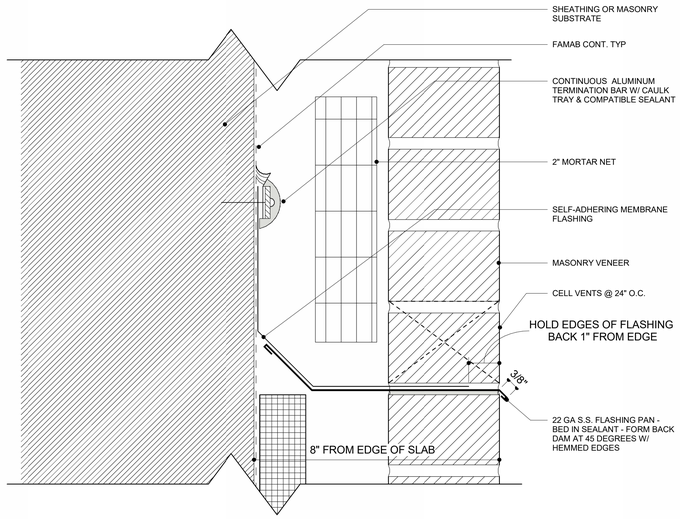
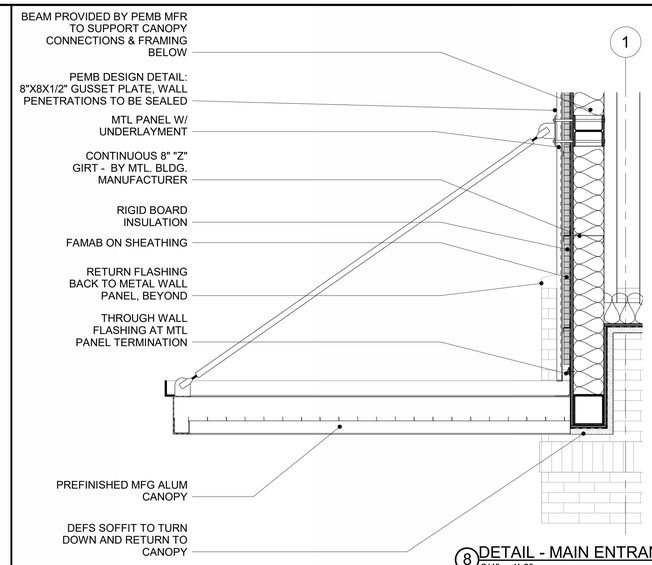
PLAN DETAILS

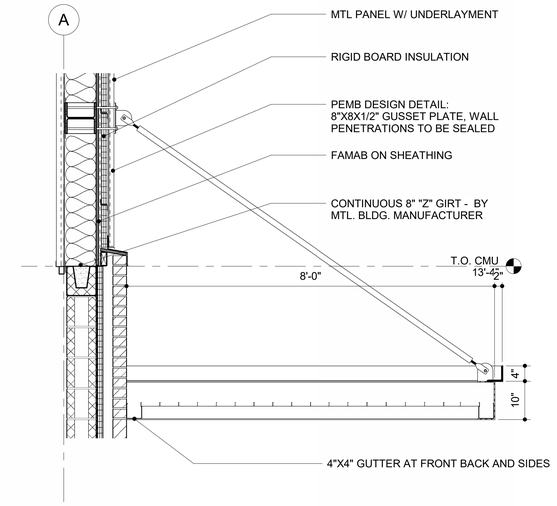
A321



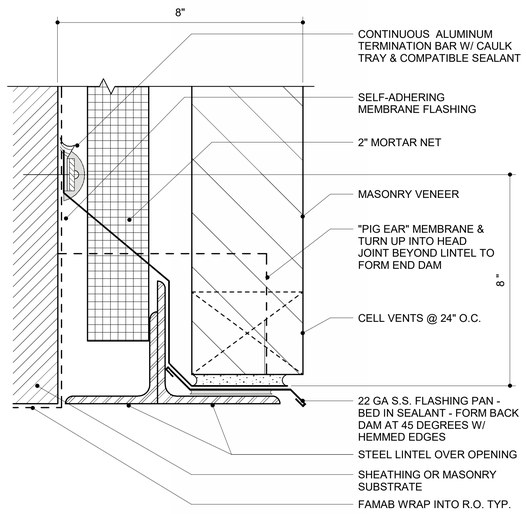
9 EMBEDDED FLASHING SYSTEM & WEEP
6" = 1'-0"



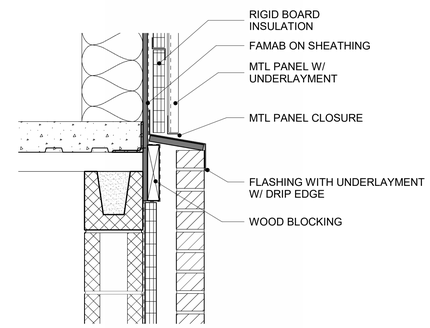
8 DETAIL - MAIN ENTRANCE CANOPY
3/4" = 1'-0"



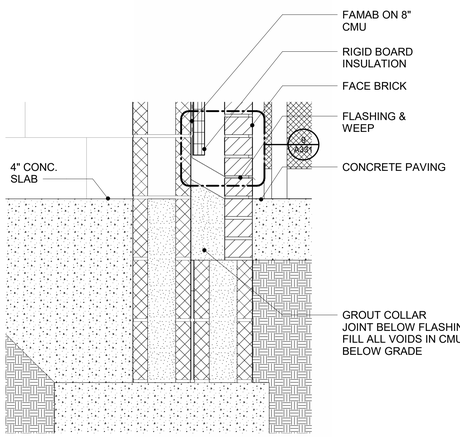
7 DETAIL - SIDE ENTRY CANOPY
3/4" = 1'-0"



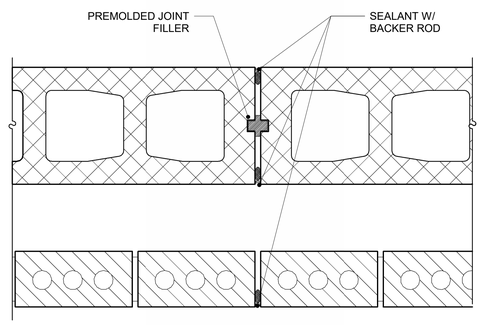
6 EMBEDDED FLASHING AT OPENING HEAD 1
6" = 1'-0"



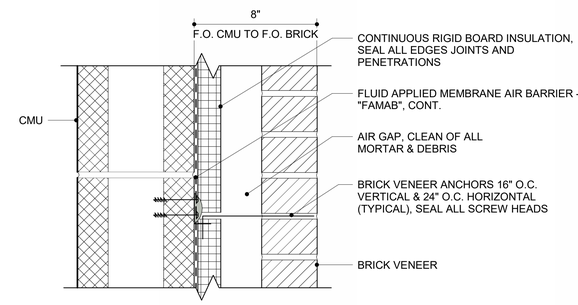
4 DETAIL - FLASHING AT TOP OF BRICK
1 1/2" = 1'-0"



3 DETAIL - BASE OF WALL
1 1/2" = 1'-0"



2 MASONRY CONTROL JOINT
3" = 1'-0"



NOTE: DRAWING EXPANDED FOR CLARITY

1 TYP. BRICK VENEER ON CMU WALL ASSEMBLY
3" = 1'-0"

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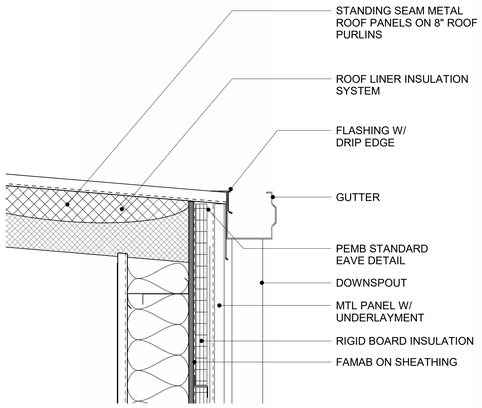
SECTION DETAILS

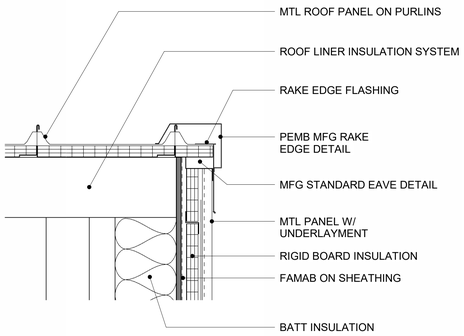
A331

GENERAL NOTES:

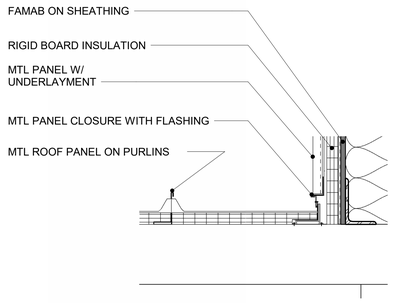
1. ROOF ASSEMBLY DETAILS: ROOF INSULATION SYTEM IS A SPECIFIED IN 133419 METAL BUILDING SYSTEMS
2. STRUCTURAL STEEL COMPONENTS SHOWN ARE CONJECTURAL AND SUBJECT TO VERIFICATION BY PEMB DESIGNER. PROVIDE COMPONENTS AS REQUIRED BY PEMB DESIGNER.



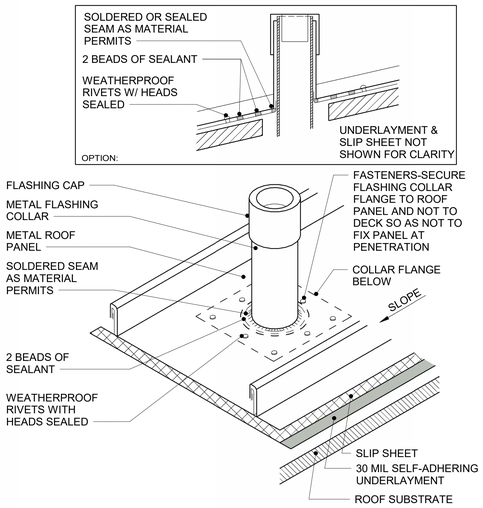
7 DETAIL - EAVE AT GUTTER DETAIL
1 1/2" = 1'-0"



6 DETAIL - EAVE AT RAKE EDGE
1 1/2" = 1'-0"



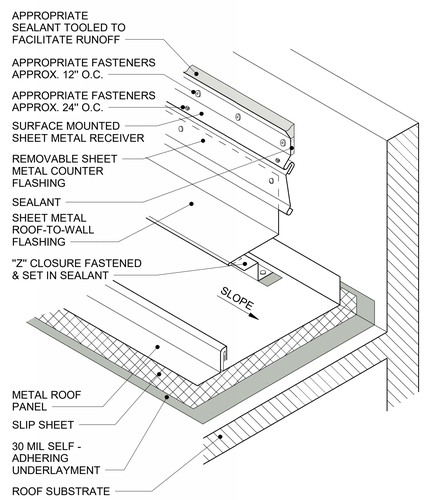
5 DETAIL - WALL TO LOW ROOF TRANSITION
1 1/2" = 1'-0"



NOTES:

1. NRCA RECOMMENDS PENETRATIONS SHOULD NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
2. CUT HOLE IN ROOF DECK TO ALLOW FOR MOVEMENT.
3. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

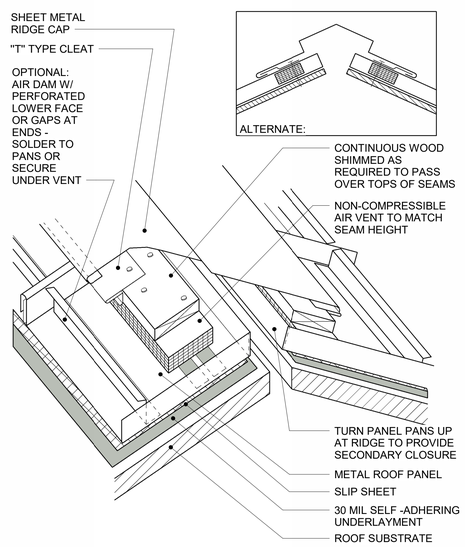
4 ROOF DETAIL
12" = 1'-0"



NOTES:

1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE ABUTTING WALL.
2. SPECIFIC FASTENING REQUIREMENTS ARE NOT INDICATED, AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING UPON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE, AND BUILDING CODE.
3. THIS DETAIL MAY BE USED WITH "STARTER" AND "END" PANELS.
4. THIS DETAIL FIXES THE PANEL IF THE "Z" CLOSURE IS FASTENED TO THE ROOF SUBSTRATE.

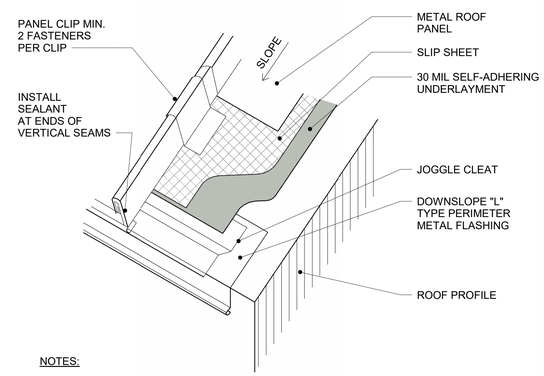
3 ROOF DETAIL
12" = 1'-0"



NOTES:

1. SPECIFIC FASTENING REQUIREMENTS ARE NOT INDICATED, AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING UPON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE AND BUILDING CODE.
2. THIS METHOD OF FLASHING FIXES THE PANELS ALONG THE RIDGE.

2 ROOF DETAIL
12" = 1'-0"



NOTES:

1. SPECIFIC FASTENING REQUIREMENTS ARE NOT INDICATED, AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING UPON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE AND BUILDING CODE.
2. GUTTER PROFILE AND SIZE VARY ACCORDING TO ROOF AREA SIZE, ROOF SLOPE, BUILDING CODE AND REGIONAL PRACTICES.
3. VARIOUS COMBINATIONS OF SUPPORT BRACKETS, SUPPORT BRACKETS AND SPACERS OR SPACER HANGERS CAN BE USED.

1 ROOF DETAIL
12" = 1'-0"

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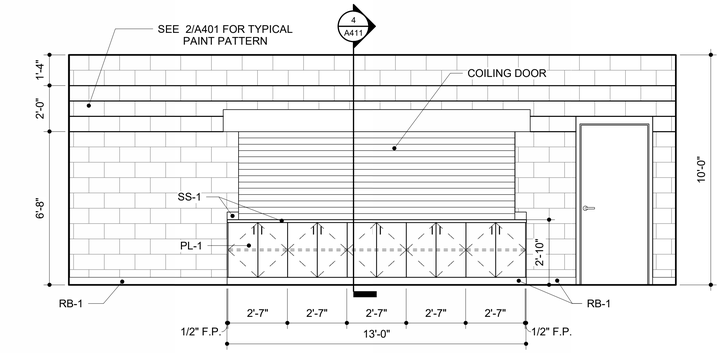
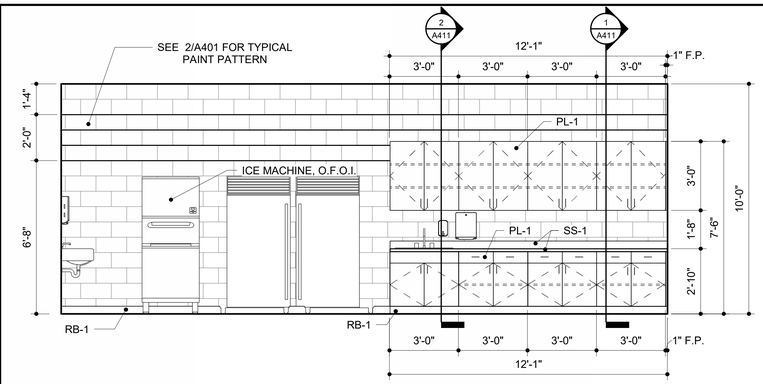
ROOF DETAILS

A332



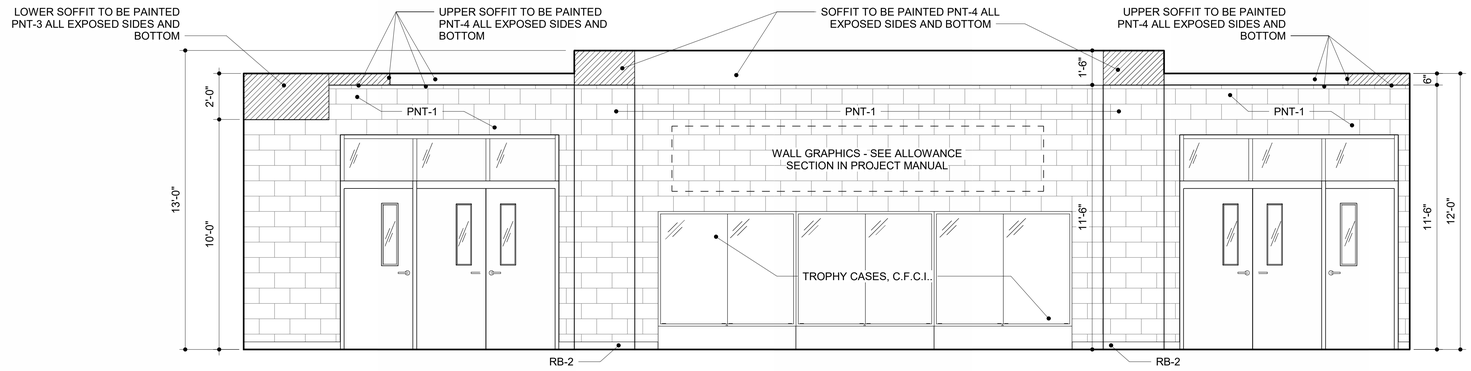
NOTE: PAINT PATTERN TO CONTINUE AROUND ALL WALLS

7 1102 CONCESSIONS - SOUTH
3/8" = 1'-0"

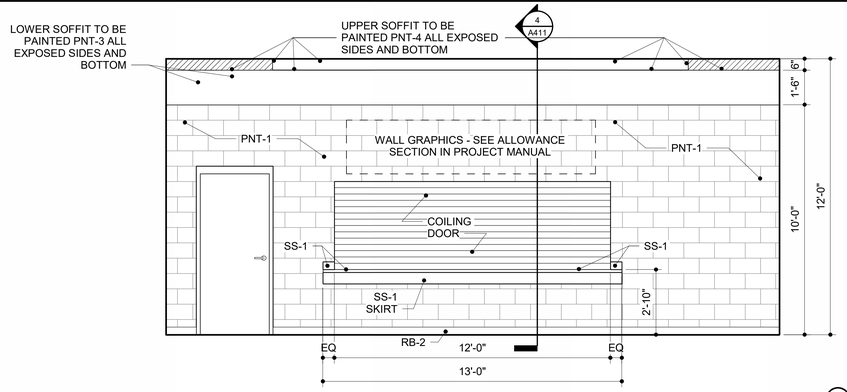


NOTE: PAINT PATTERN TO CONTINUE AROUND ALL WALLS.

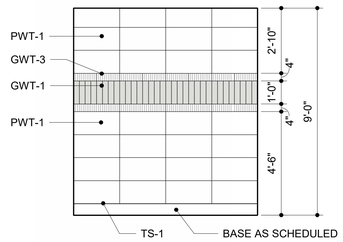
6 1102 CONCESSIONS - NORTH
3/8" = 1'-0"



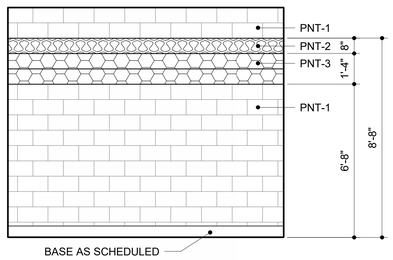
5 1101 LOBBY - EAST
3/8" = 1'-0"



4 1101 LOBBY - NORTH
3/8" = 1'-0"

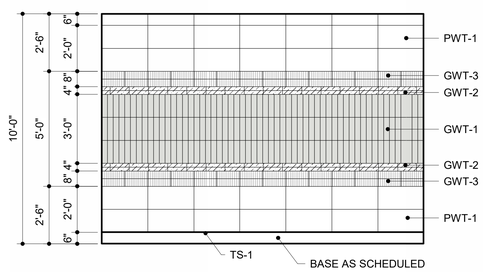


3 TYPICAL COACHES' TLT TILE PATTERN
3/8" = 1'-0"



NOTE: PATTERN TO CONTINUE AROUND ALL WALLS

2 TYPICAL WALL PAINT PATTERN
3/8" = 1'-0"



1 DECORATIVE WALL TILE PATTERN
3/8" = 1'-0"

PAINT AND TILE FINISH LEGEND

PNT-1 GENERAL PAINT
SHERWIN-WILLIAMS
COLOR: LAZY GRAY SW 6254

PNT-2 TRIM PAINT/ACCENT PAINT
SHERWIN-WILLIAMS
COLOR: TRICORN BLACK SW 6258

PNT-3 ACCENT PAINT
SHERWIN-WILLIAMS
COLOR: CUSTOM - BLUE

CCE COLORANT	OZ	32	64	128
B1-BLACK	--	--	01	01
L1-BLUE	--	10	--	--
R3-MAGENTA	--	04	--	01

NOTE: COLOR RATIOS BASED ON 30.7 FL OZ

PNT-4 SOFFIT PAINT
SHERWIN-WILLIAMS
COLOR: WEB GRAY SW 7075

PNT-5 CEILING PAINT
SHERWIN-WILLIAMS
COLOR: PURE WHITE SW 7005

PWT-1 PORCELAIN WALL TILE
TRINITY SURFACES
STYLE: BLAIRE
COLOR: SILVER
SIZE: 12" x 24"
GROUT COLOR: LATICRETE 89 SMOKE GREY

GWT-1 GLAZED WALL TILE
TRINITY SURFACES
WALL TILE COLLECTION
COLOR: SOFT BLUE
SIZE: 3" X 12"
FINISH: GLOSSY
GROUT: LATICRETE 89 SMOKE GREY

GWT-2 GLAZED WALL TILE
TRINITY SURFACES
WREN
COLOR: CAMELIA
SIZE: 2" X 10"
FINISH: GLOSSY
GROUT: LATICRETE 89 SMOKE GREY

GWT-3 GLAZED WALL TILE
TRINITY SURFACES
WREN
COLOR: NERO
SIZE: 4" X 12"
FINISH: GLOSSY
GROUT: LATICRETE 89 SMOKE GREY

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BID SET

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REVISIONS

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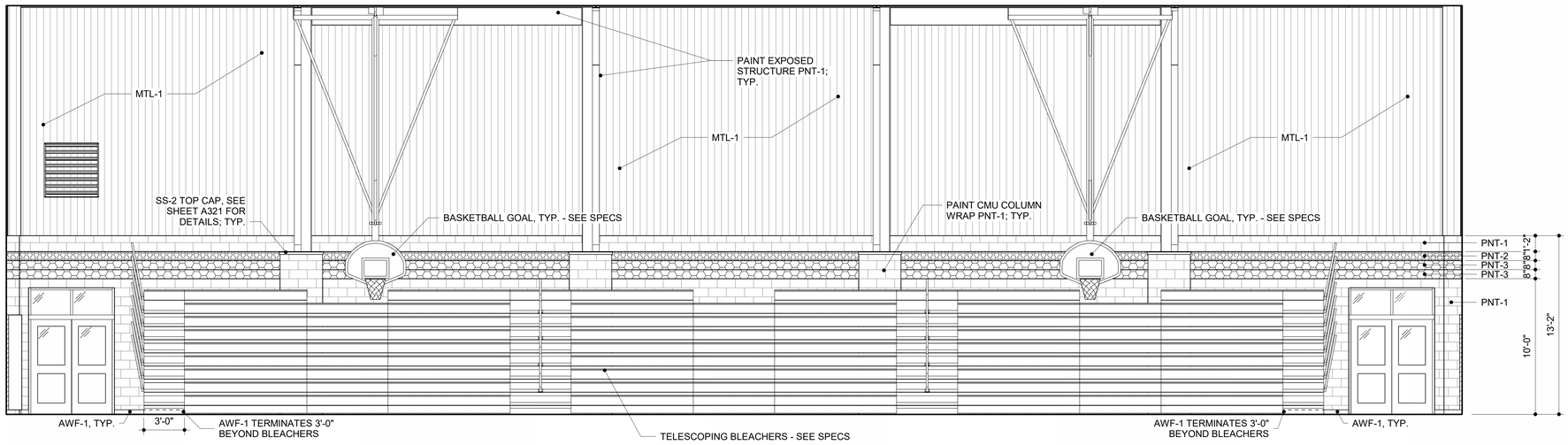
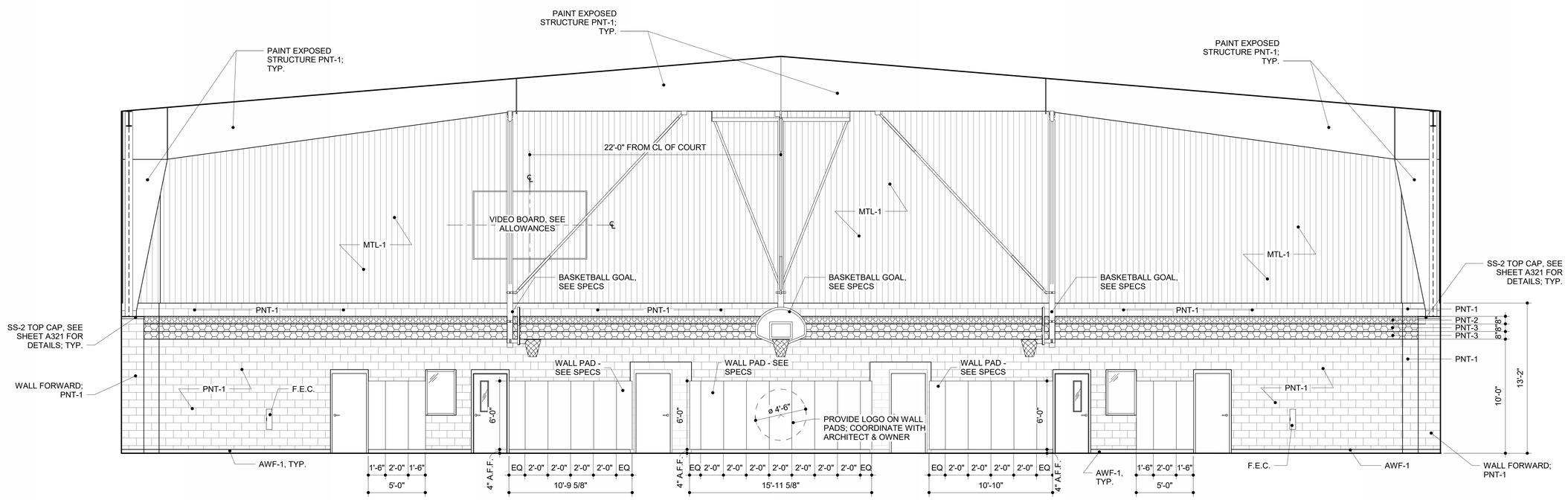
INTERIOR ELEVATIONS

A401



2 1106 GYMNASIUM - NORTH
1/4" = 1'-0"



1 1106 GYMNASIUM - EAST
1/4" = 1'-0"

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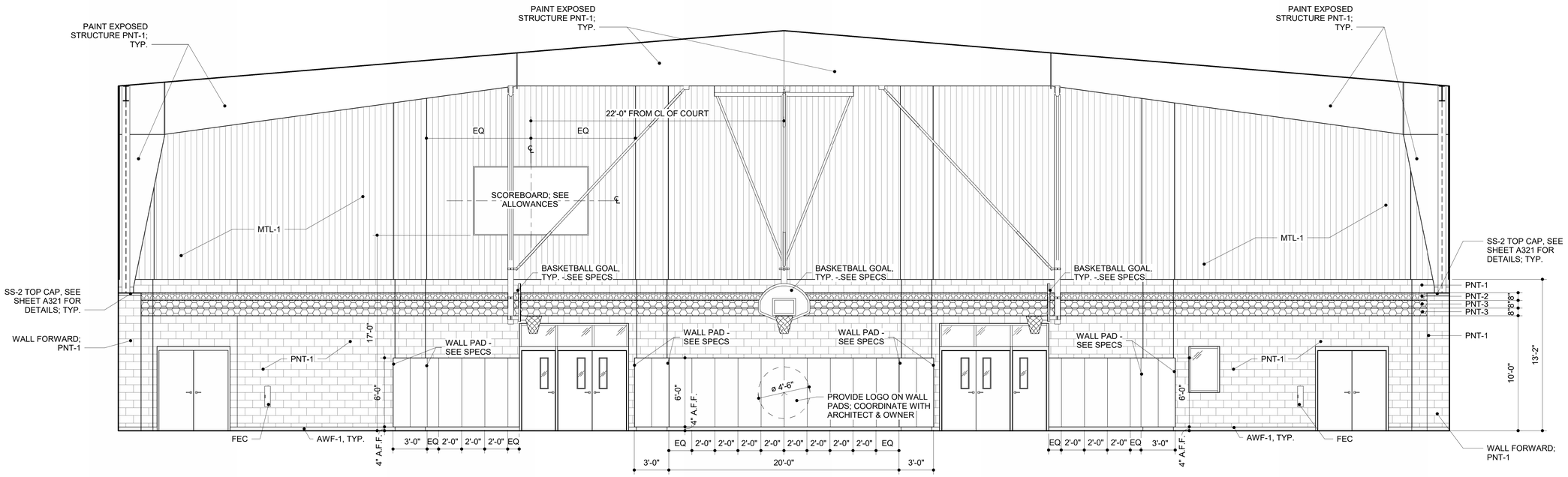
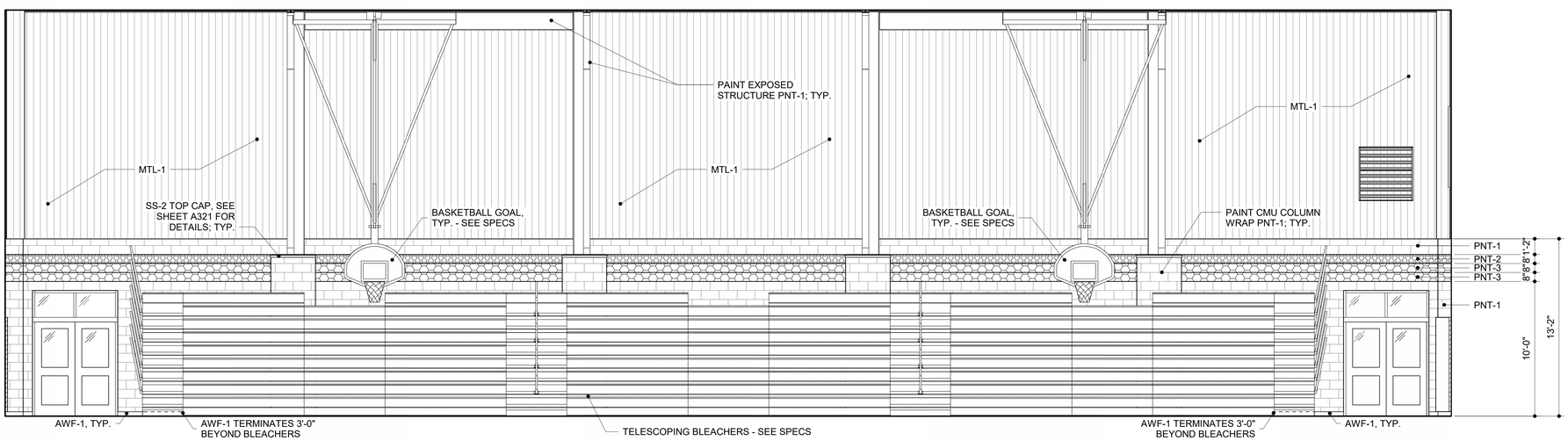
INTERIOR ELEVATIONS

A402



2 1106 GYMNASIUM - WEST
1/4" = 1'-0"



1 1106 GYMNASIUM - SOUTH
1/4" = 1'-0"

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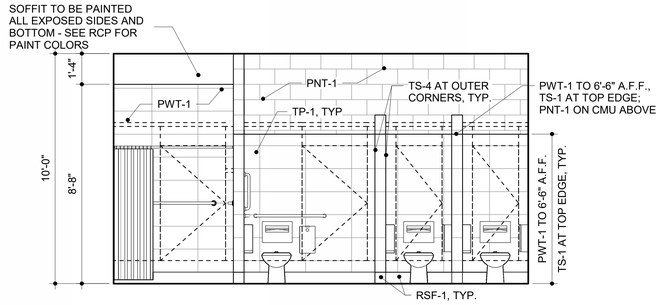
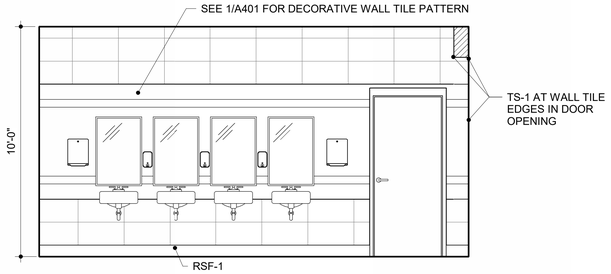
INTERIOR ELEVATIONS

A403



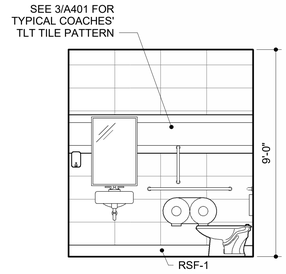
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

12 1125 GIRLS LOCKER ROOM TLT - WEST
3/8" = 1'-0"



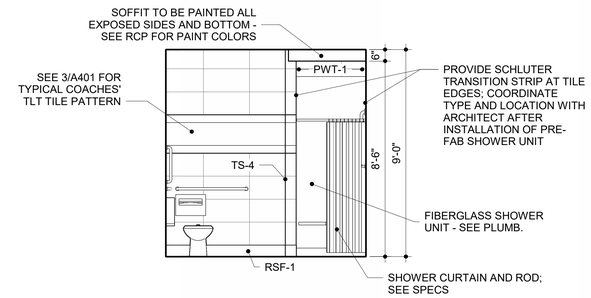
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

11 1125 GIRLS LOCKER ROOM TLT - EAST
3/8" = 1'-0"



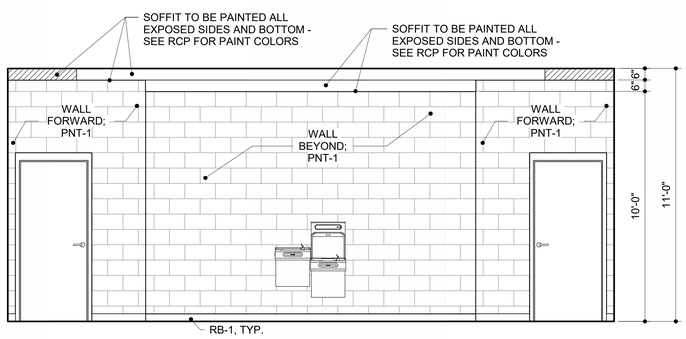
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

10 1121 COACH TLT - WEST
3/8" = 1'-0"



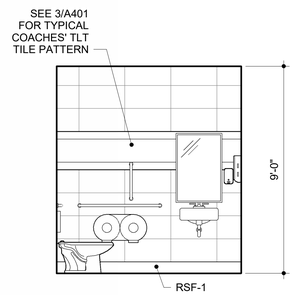
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

9 1121 COACH TLT - NORTH
3/8" = 1'-0"



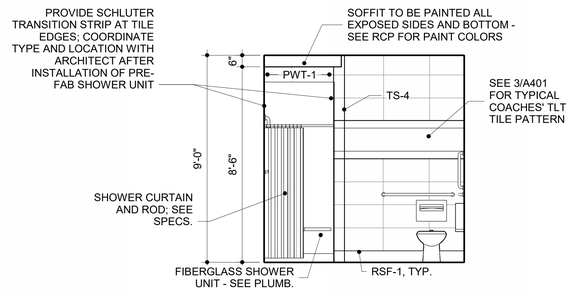
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

8 1117 MULTIPURPOSE ROOM - WEST
3/8" = 1'-0"



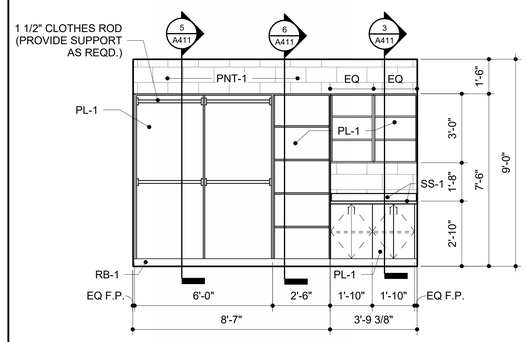
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

7 1115 COACH TLT - WEST
3/8" = 1'-0"



NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

6 1115 COACH TLT - SOUTH
3/8" = 1'-0"



NOTE: PROVIDE WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CLOTHES ROD

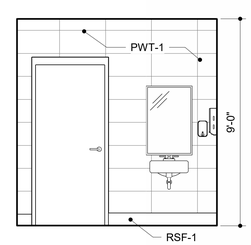
5 1113 UNIFORM STORAGE - SOUTH
3/8" = 1'-0"

NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS. URINAL 17" HIGH TO RIM & 13.5" DEEP, TYPICAL

4 1112 TLT/SHOWER - WEST
3/8" = 1'-0"

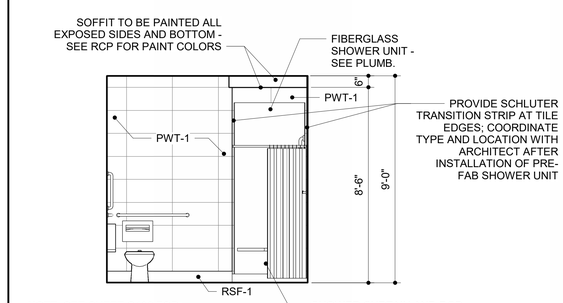
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

3 1112 TLT/SHOWER - EAST
3/8" = 1'-0"



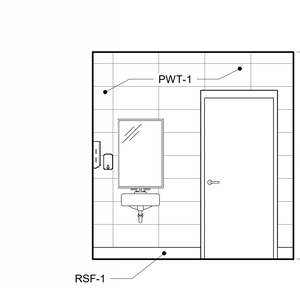
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

2 1109 TLT/SHOWER - WEST
3/8" = 1'-0"



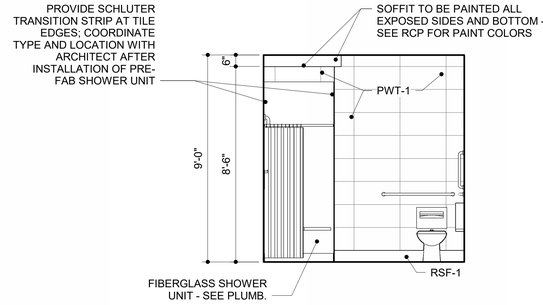
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

1 1109 TLT/SHOWER - EAST
3/8" = 1'-0"



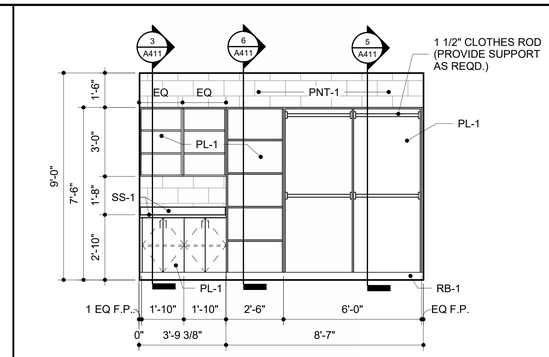
NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

15 1128 TLT/SHOWER - WEST
3/8" = 1'-0"



NOTE: SEE SHEET G102 FOR FIXTURE AND PLUMBING ACCESSORY MOUNTING HEIGHTS

14 1128 TLT/SHOWER - EAST
3/8" = 1'-0"



NOTE: PROVIDE WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CLOTHES ROD

13 1126 UNIFORM STORAGE - NORTH
3/8" = 1'-0"

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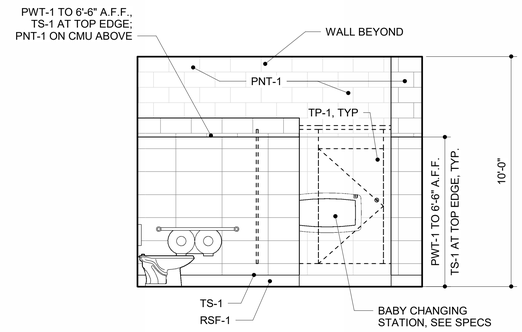
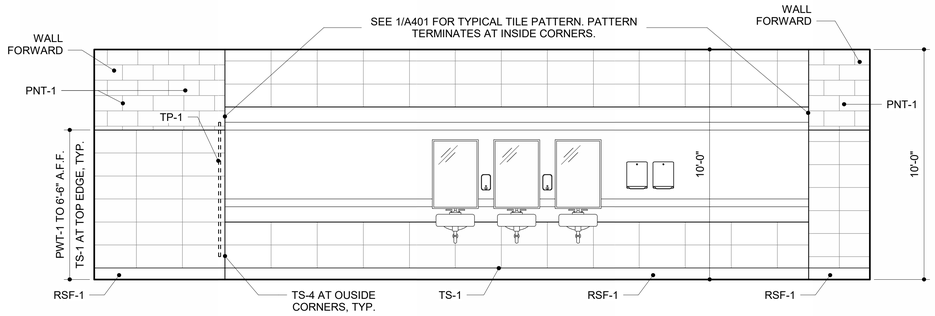
INTERIOR ELEVATIONS

A404

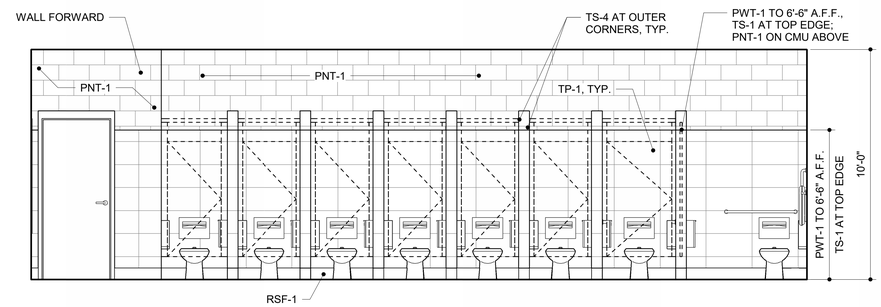


5 1134 WOMENS - SOUTH
3/8" = 1'-0"



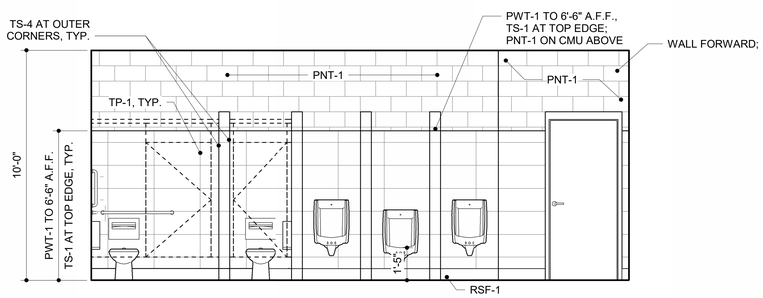
NOTE: SEE SHEET G102 FOR
FIXTURE AND PLUMBING
ACCESSORY MOUNTING HEIGHTS

4 1134 WOMENS - WEST
3/8" = 1'-0"



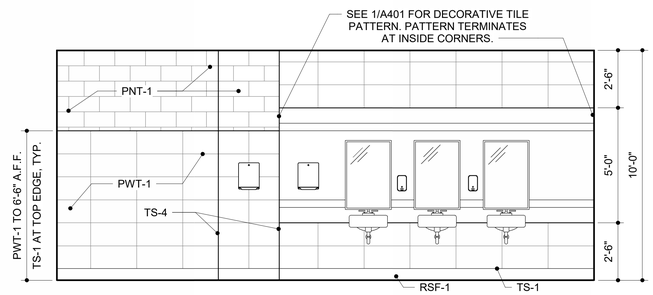
NOTE: SEE SHEET G102 FOR
FIXTURE AND PLUMBING
ACCESSORY MOUNTING HEIGHTS

3 1134 WOMENS - EAST
3/8" = 1'-0"



NOTE: SEE SHEET G102 FOR FIXTURE AND
PLUMBING ACCESSORY MOUNTING HEIGHTS.
URINAL 17" HIGH TO RIM & 13.5" DEEP, TYPICAL

2 1132 MENS - WEST
3/8" = 1'-0"



NOTE: SEE SHEET G102 FOR
FIXTURE AND PLUMBING
ACCESSORY MOUNTING HEIGHTS

1 1132 MENS - EAST
3/8" = 1'-0"

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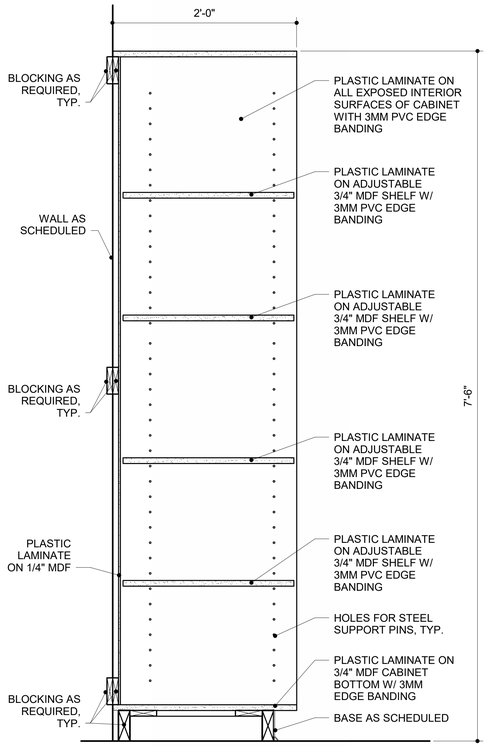
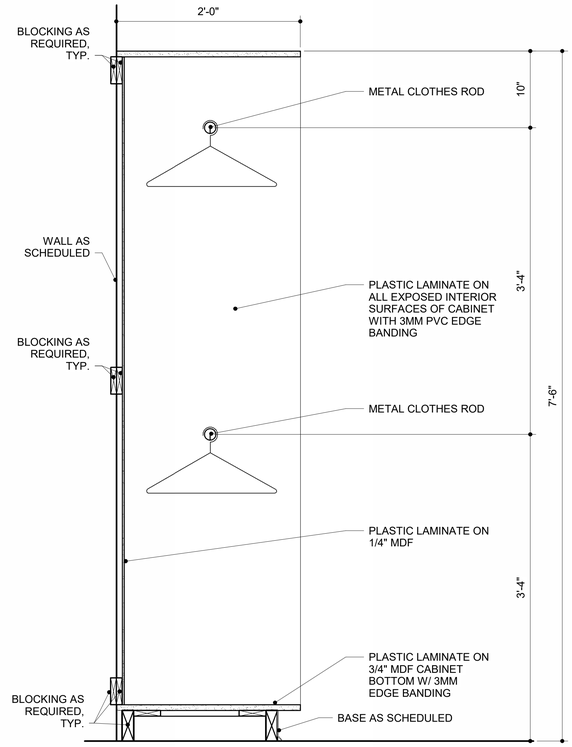
INTERIOR
ELEVATIONS

A405



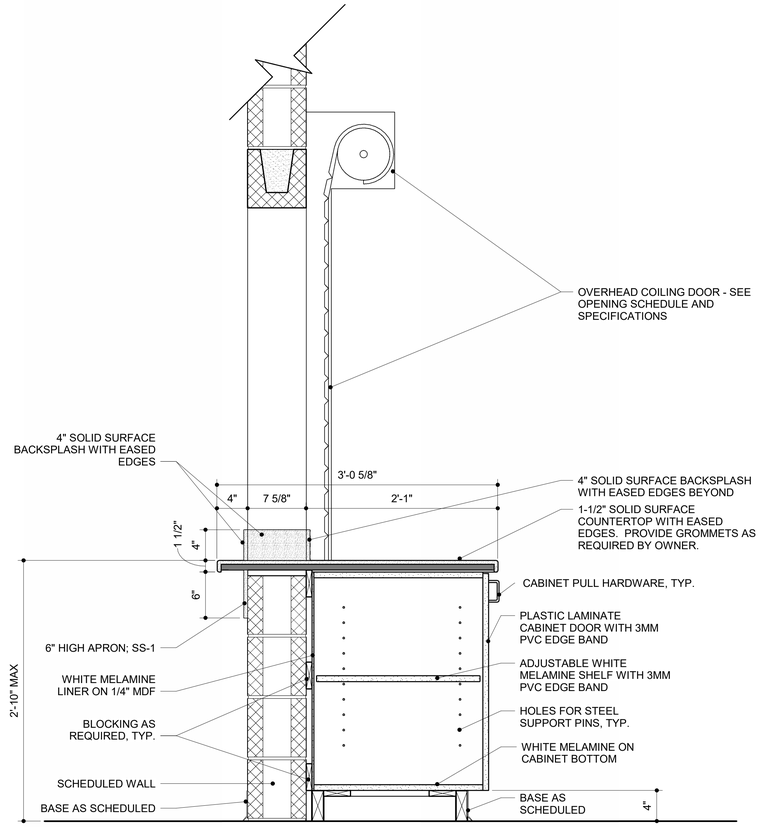
NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES.

6 GENERAL SHELVING SECTION
1 1/2" = 1'-0"



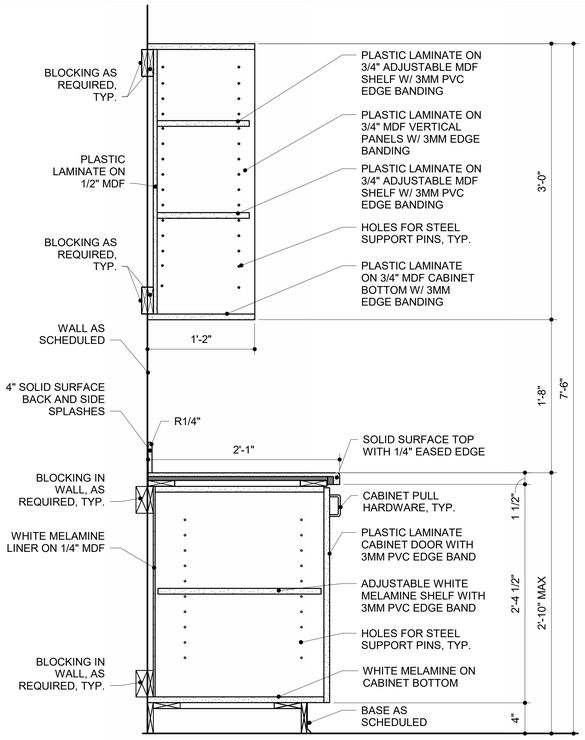
NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES.

5 HANGING STORAGE SECTION
1 1/2" = 1'-0"



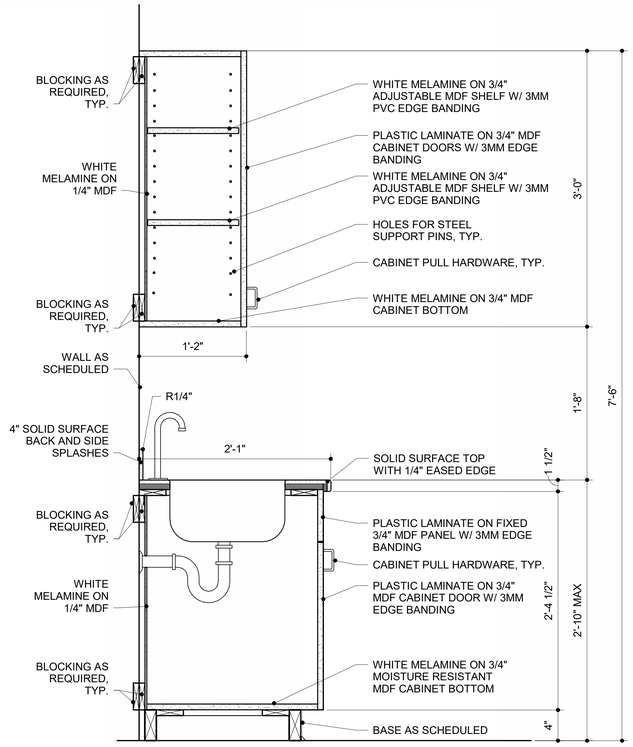
NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES. SEE INTERIOR ELEVATIONS FOR PLASTIC LAMINATE FINISH LOCATIONS.

4 CONCESSION COUNTER SECTION
1 1/2" = 1'-0"



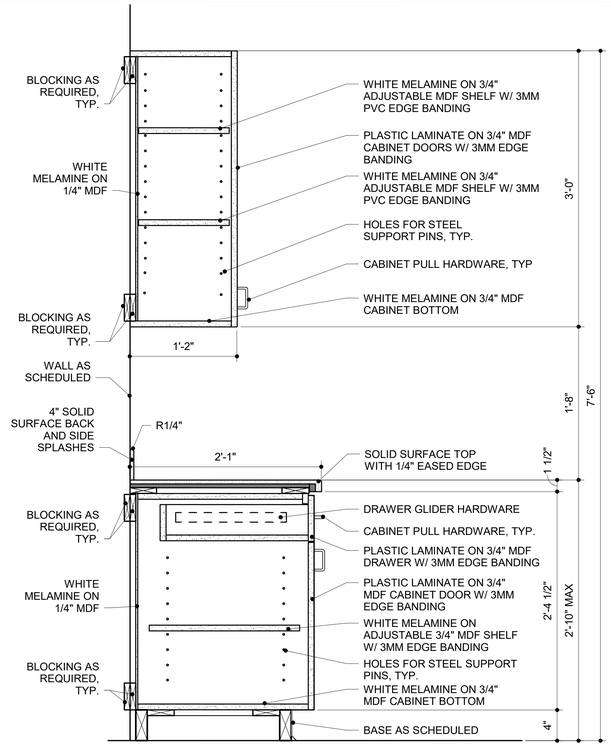
NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES.

3 GENERAL COUNTERTOP SECTION
1 1/2" = 1'-0"



NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES.

2 GENERAL SINK CABINET SECTION
1 1/2" = 1'-0"



NOTE: PLASTIC LAMINATE ON ALL EXPOSED SURFACES. CABINETS TO HAVE 3MM PVC EDGE BANDING ON ALL EDGES.

1 GENERAL CABINET SECTION
1 1/2" = 1'-0"

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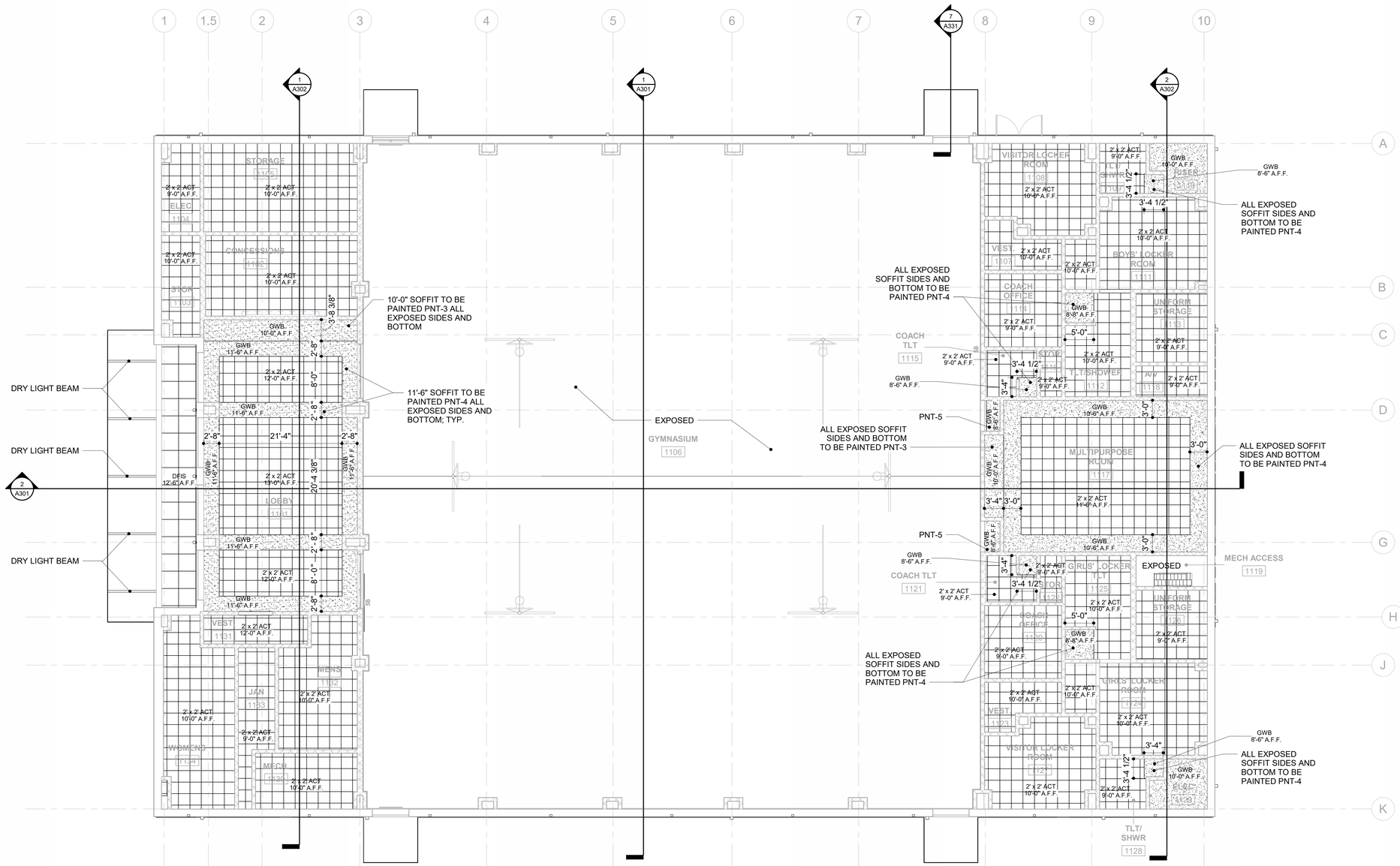
INTERIOR SECTIONS

A411

REFLECTED CEILING PLAN LEGEND:

- 2' X 2' ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING
- 2' X 4' LIGHT FIXTURE
- 2' X 2' LIGHT FIXTURE
- CAN LIGHT FIXTURE
- PENDANT LIGHT
- WALL MOUNTED LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- MECHANICAL SUPPLY DIFFUSER
- MECHANICAL RETURN DIFFUSER
- AIR VENT

NOTE: LIGHT FIXTURES SHOWN ON ARCHITECTURAL PLANS ARE FOR COORDINATION AND LOCATION PURPOSES BASED ON CEILING GRID LAYOUT AS SHOWN. ALL FIXTURES TYPES AND CIRCUITRY BY ELECTRICAL ENGINEER. NOTIFY ARCHITECT IF DISCREPANCY IS NOTED FROM FIELD CONDITION AND CEILING GRID SYSTEM INSTALLED.



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

N

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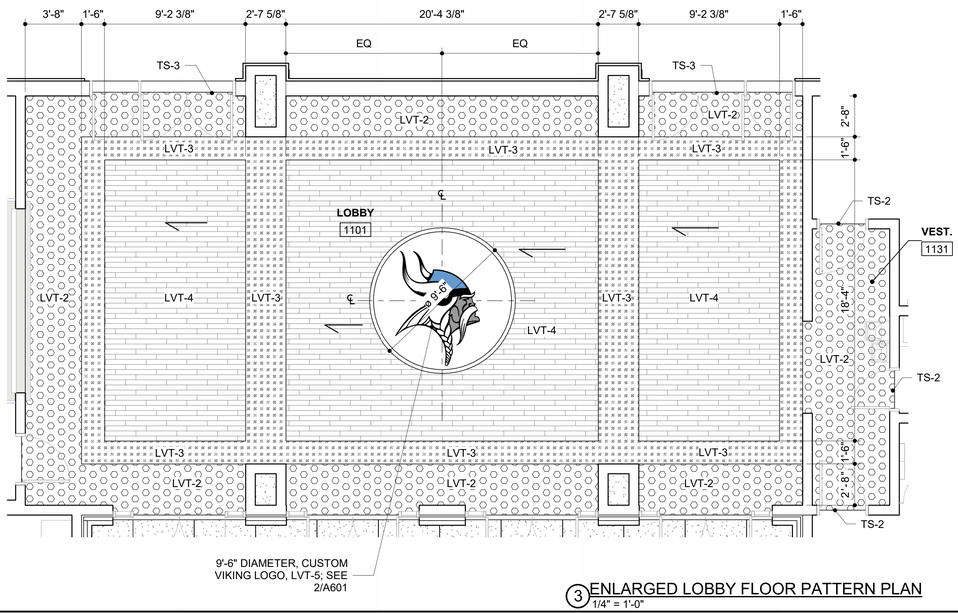
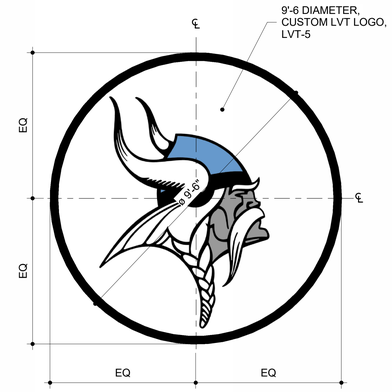
REFLECTED CEILING PLAN - BASE BID

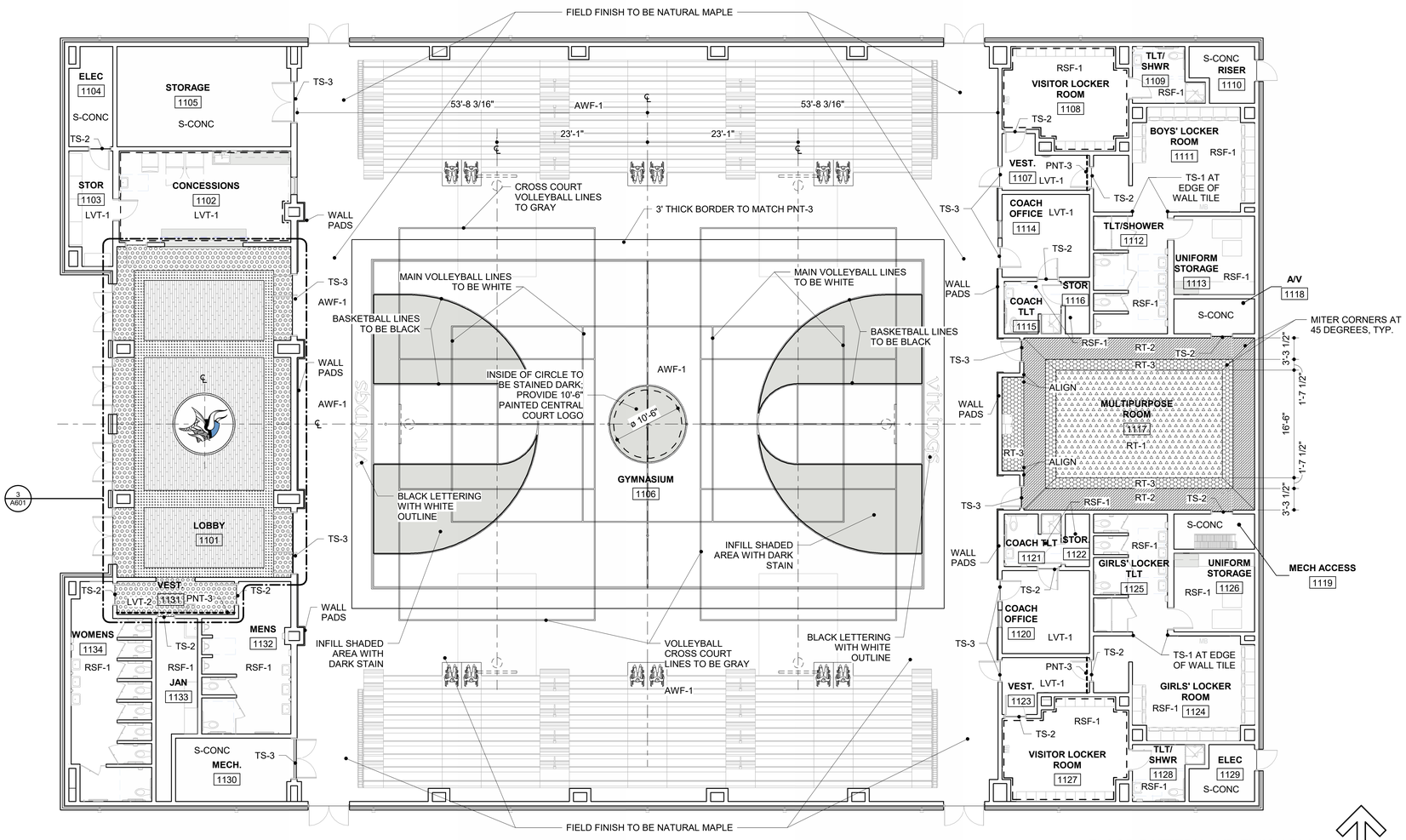
A501



3 ENLARGED LOBBY FLOOR PATTERN PLAN
1/4" = 1'-0"



2 LVT-5 FLOOR LOGO DETAIL
1/2" = 1'-0"



1 FLOOR PATTERN AND FINISH PLAN
1/8" = 1'-0"

FLOOR PATTERN/FINISH PLAN LEGEND:

FLOORING

AWF-1 — ATHLETIC WOOD FLOORING SYSTEM
WITH GAMELINES
ROBBINS SPORTS SURFACES
BIO CHANNEL SB FLOOR SYSTEM
STAIN COLOR: TWO-TONE STAIN, TBD
COURTLINE COLORS: TBD
SEE 1/A602 FOR FLOORING DETAIL

LVT-1 — LUXURY VINYL TILE
TARKETT
COLLECTION: CONTOUR
STYLE: PEME MELANGE
COLOR: 12037 LATTICE
TOTAL THICKNESS: 3 MM
WEAR LAYER: 32 MIL
SIZE: 18" X 18"
INSTALLATION METHOD: ASHLAR

LVT-2 — LUXURY VINYL TILE
TARKETT
COLLECTION: CONTOUR
STYLE: PCDE DEM
COLOR: 11375 TARRAGON
TOTAL THICKNESS: 3 MM
WEAR LAYER: 30 MIL
SIZE: 18" X 18"
INSTALLATION METHOD: ASHLAR

LVT-3 — LUXURY VINYL TILE
TARKETT
COLLECTION: EVENT ABSTRACT
STYLE: PEME MELANGE
COLOR: 12033 DEWDROP
TOTAL THICKNESS: 3 MM
WEAR LAYER: 30 MIL
SIZE: 18" X 18"
INSTALLATION METHOD: ASHLAR

LVT-4 — LUXURY VINYL TILE
TARKETT
COLLECTION: EVENT WOOD
STYLE: PECF CRAFTED PLANK
COLOR: 11217 ATLANTIC WALNUT
TOTAL THICKNESS: 3 MM
WEAR LAYER: 30 MIL
SIZE: 6" X 48"
INSTALLATION METHOD: STAGGER

LVT-5 — LUXURY VINYL TILE - CUSTOM LOGO
TARKETT
CUSTOM LOGO
QUOTE #: 260605-1
DRAWING #: 148.2026
5 COLORS
VMN 3141 JS SE (GEODE)
VCR 0255 SS SE (RAVEN)
VCR 0068 SS SE (MIST)
VCR 0243 SS SE (SNOWBOUND)
VMN 3131 JS SE (IGNEOUS)
SIZE: 9'-6" DIAMETER

RSF-1 — RESINOUS FLOORING WITH 6" COVE BASE
SHERWIN WILLIAMS
RESUFLOR DECO SMALL FLAKE 1/8" BC
COLOR: TUNGSTEN 1/8"
WEARING SURFACE: STANDARD AT ALL
SEE SPECS FOR MORE INFO.
SEE 2/A602 FOR BASE DETAIL.

RT-1 — RUBBER TILE
NORA BY INTERFACE
NORAMENT GRANO 992
COLOR: FRANKINCENSE 5303
THICKNESS: 9.0 MM
SIZE: 39.45" X 39.45"

RT-2 — RUBBER TILE
NORA BY INTERFACE
NORAMENT GRANO 992
COLOR: MYRRH 5308
THICKNESS: 9.0 MM
SIZE: 39.45" X 39.45"

RT-3 — RUBBER TILE
NORA BY INTERFACE
NORAMENT GRANO 992
COLOR: AGAPANTHUS 5317
THICKNESS: 9.0 MM
SIZE: 39.45" X 39.45"

S-CONC — SEALED CONCRETE

WALL FINISHES:

ACCENT PAINT (PNT-3) ON ENTIRE WALL

TYPICAL WALL PAINT PATTERN; SEE 2/A401

WALL PADS

TRANSITION STRIPS:

TS-1 — TRIM AT PORCELAIN WALL TILE EDGES
SCHLUTER SYSTEMS
SCHIENE
FINISH: SATIN ANODIZED ALUMINUM (AE)

TS-2 — RESILIENT/CARPET TO RESINOUS/CONCRETE FLOORING TRANSITION
SCHLUTER SYSTEMS
VINPRO-U
FINISH: SATIN ANODIZED ALUMINUM (ACGB)

TS-3 — ATHLETIC WOOD FLOORING TO CONCRETE/LVT/CARPET
ROBBINS SPORTS SURFACES
MANUFACTURER-PROVIDED THRESHOLD COVER PLATE

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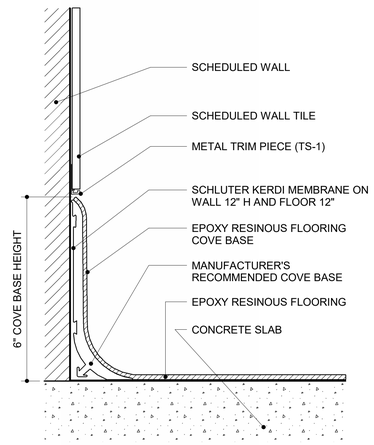
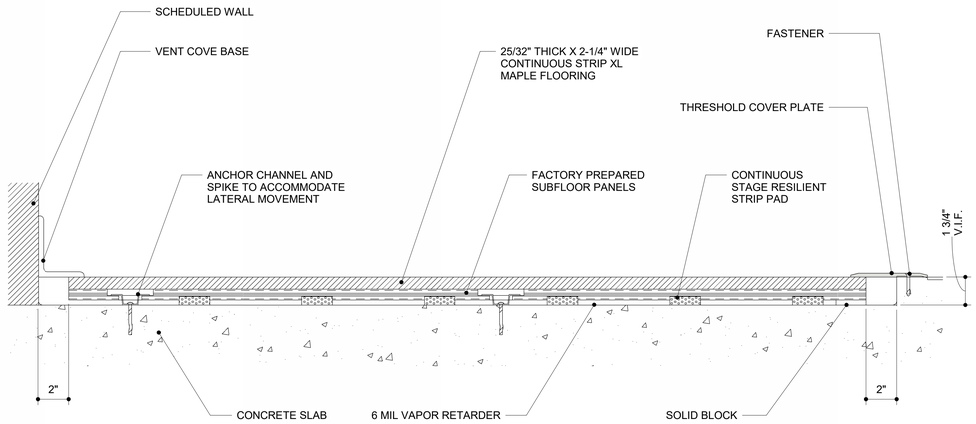
FLOOR PATTERN PLAN

A601



2 RESINOUS FLOORING BASE DETAIL
6" = 1'-0"



1 ATHLETIC WOOD FLOORING DETAIL
3" = 1'-0"

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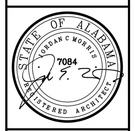

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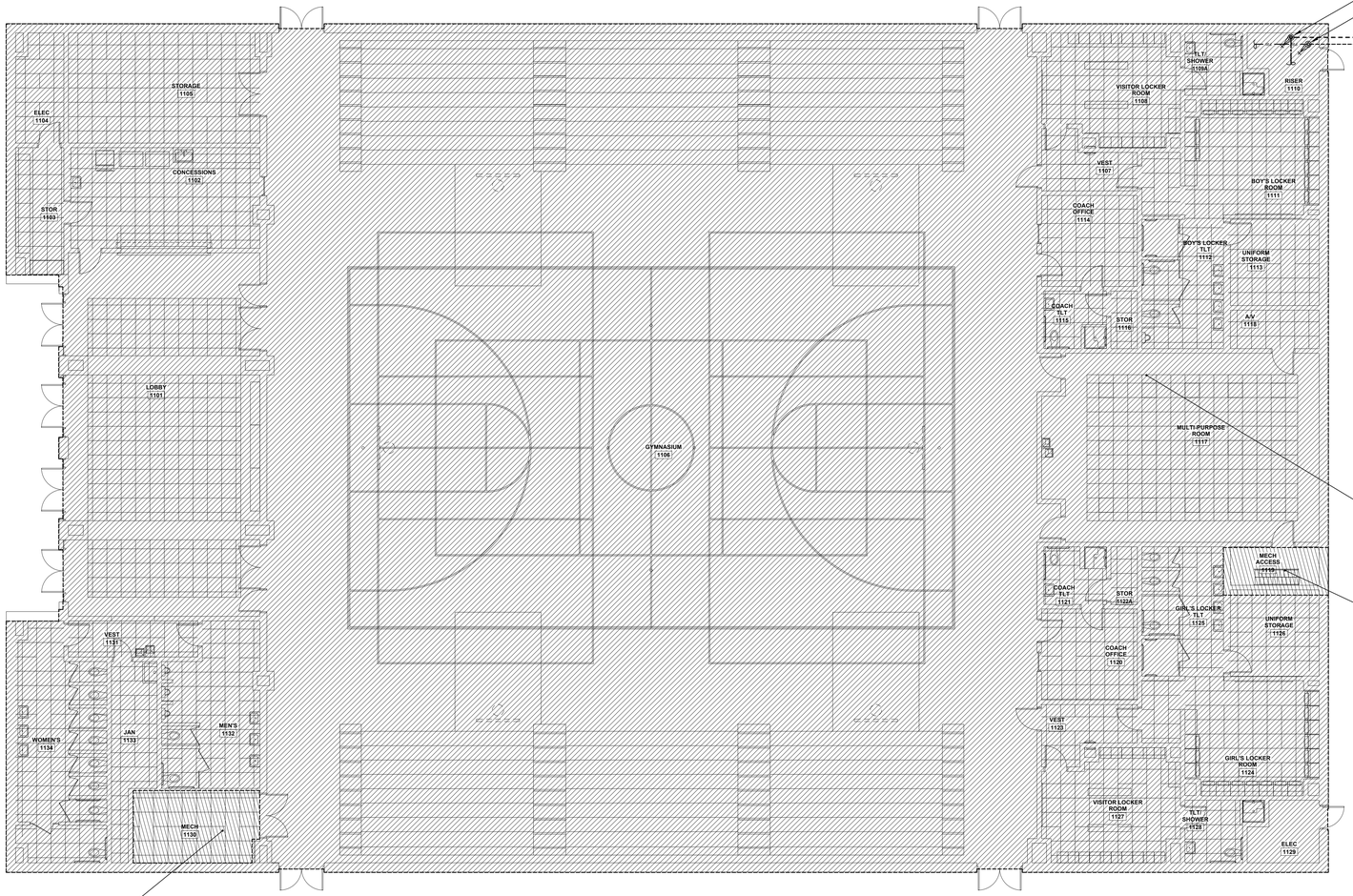
FLOOR DETAILS

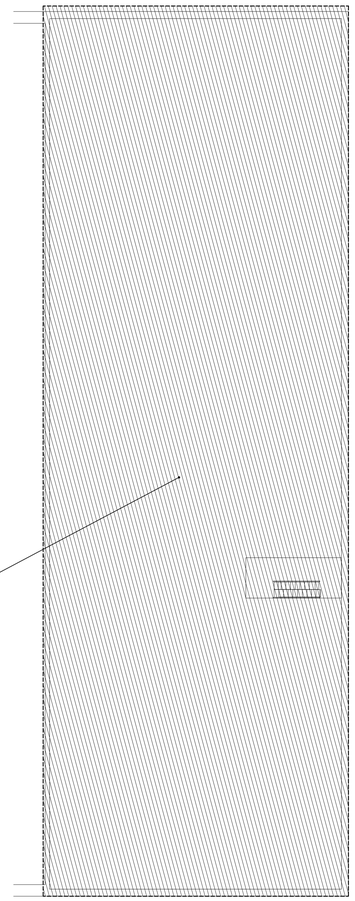
A602



1 FIRE SUPPRESSION PLAN

1/8" = 1'-0"

0" 4'-0" 8'-0" 16'-0" 32'-0"



2 MEZZANINE FIRE SUPPRESSION PLAN

1/8" = 1'-0"

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

WATER FLOW DATA

THE CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST AT POINT OF CONNECTION TO OBTAIN CURRENT FLOW CONDITIONS FOR THE SPRINKLER SYSTEM HYDRAULIC CALCULATIONS. THE TEST HYDRANT SHALL BE THE ONE CLOSEST TO THE BLDG. THIS HYDRANT WILL SUPPLY THE STATIC AND RESIDUAL PRESSURES.

(MIC) MICROBIAL INDUCED CORROSION IS NOT EXPECTED.

STATIC PRESSURE:	xxx
RESIDUAL PRESSURE:	xxx
WATER FLOW:	xxx

HAZARD CLASSIFICATION

- LIGHT HAZARD WITH WET-PIPE HEADS
- ORDINARY HAZARD GROUP 1 WITH WET-PIPE HEADS

FIRE SUPPRESSION GENERAL NOTES:

1. COORDINATE INSTALLATION OF FIRE ZONE RISERS WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ADEQUATE SPACE FOR INSTALLATION.
2. SEE NFPA 13 – 2-8.2 FOR CONNECTIONS PASSING THROUGH OR UNDER FOUNDATION WALLS.
3. COORDINATE PIPE ROUTING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS TO INSURE ADEQUATE SPACE IS AVAILABLE.
4. REFERENCE FLOW TEST DATA AND EVALUATE WHETHER STRATEGIC UPSIZING OF LINES CAN PROVIDE SUFFICIENT WATER FLOW AND PRESSURE.
5. FOR CLARITY NOT ALL PIPING TURNS ARE SHOWN IN DETAIL.
6. FIRE SUPPRESSION WATER SUPPLY LINE SHALL BE FLOWED AND WITNESSED PRIOR TO CONNECTION OF RISER.

FIRE SUPPRESSION KEYNOTE:

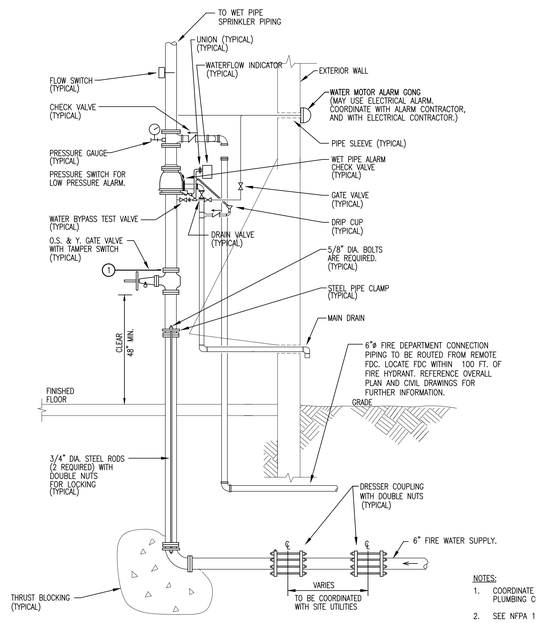
1. FIRE SUPPRESSION WATER SUPPLY LINE SHALL BE PRESSURE TESTED AND WITNESSED BY AN ABC OFFICIAL PRIOR TO CONNECTION OF RISER.

SYSTEM DESIGN APPROACH CRITERIA

ORDINARY HAZARD GROUP 1 – WET PIPE FIRE SPRINKLER SYSTEM WITH A DENSITY OF .15 GPM OVER A MINIMUM REMOTE AREA OF 1500 SQUARE FEET WITH A HOSE STREAM ALLOWANCE OF 250 GPM AND 130 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM.

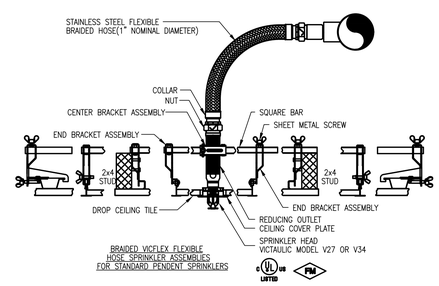
LIGHT HAZARD – WET PIPE FIRE SPRINKLER SYSTEM WITH A DENSITY OF .10 GPM OVER A MINIMUM REMOTE AREA OF 1500 SQUARE FEET WITH A HOSE STREAM ALLOWANCE OF 100 GPM AND 225 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM.

SPRINKLER DESIGN SHALL BE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.



FIRE SUPPRESSION RISER DETAIL

NOT TO SCALE



HOSE SPRINKLER ASSEMBLY DETAIL

NOT TO SCALE

NOTES:

1. COORDINATE INSTALLATION OF FIRE ZONE RISERS WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ADEQUATE SPACE FOR INSTALLATION.
2. SEE NFPA 13 – 2-8.2 FOR CONNECTIONS PASSING THROUGH OR UNDER FOUNDATION WALLS.
3. COORDINATE PIPE ROUTING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS TO INSURE ADEQUATE SPACE IS AVAILABLE.
4. REFERENCE FLOW TEST DATA AND EVALUATE WHETHER STRATEGIC UPSIZING OF LINES CAN PROVIDE SUFFICIENT FLOW WITHOUT A FIRE PUMP.

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253 ST. ANTHONY STREET
MOBILE, ALABAMA 36603
PHONE: (251)690-7446

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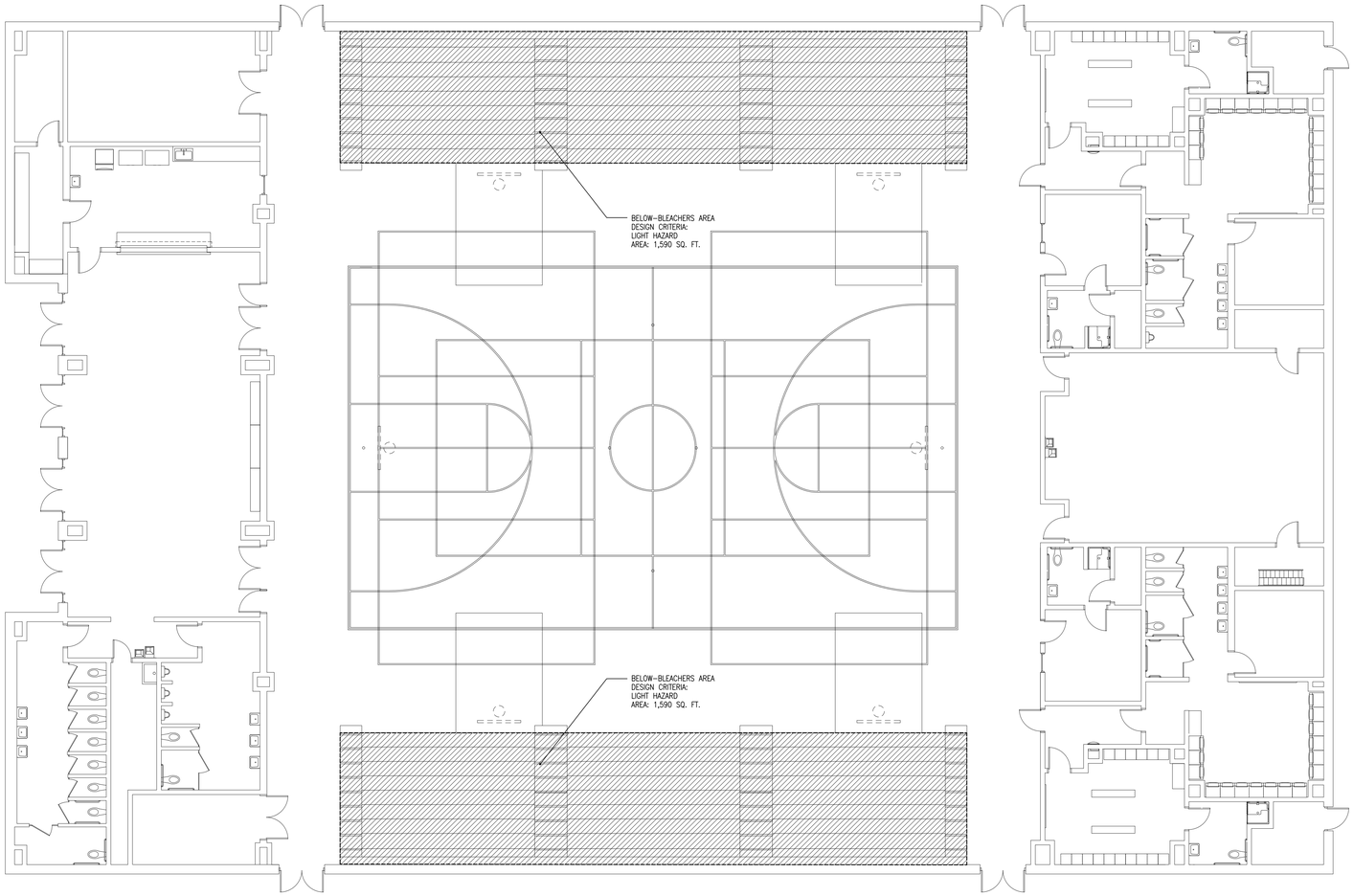
FIRE SUPPRESSION PLAN

FP101



1 FIRE SUPPRESSION ADDITIONAL PLAN
1/8" = 1'-0"

N

0" 4'-0" 8'-0" 16'-0" 32'-0"

HAZARD CLASSIFICATION
LIGHT HAZARD WITH WET-PIPE HEADS
ORDINARY HAZARD GROUP 1 WITH WET-PIPE HEADS

H.M. YONGE & ASSOCIATES, INC.
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253 ST. ANTHONY STREET
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MARY G MONTGOMERY GYM
MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

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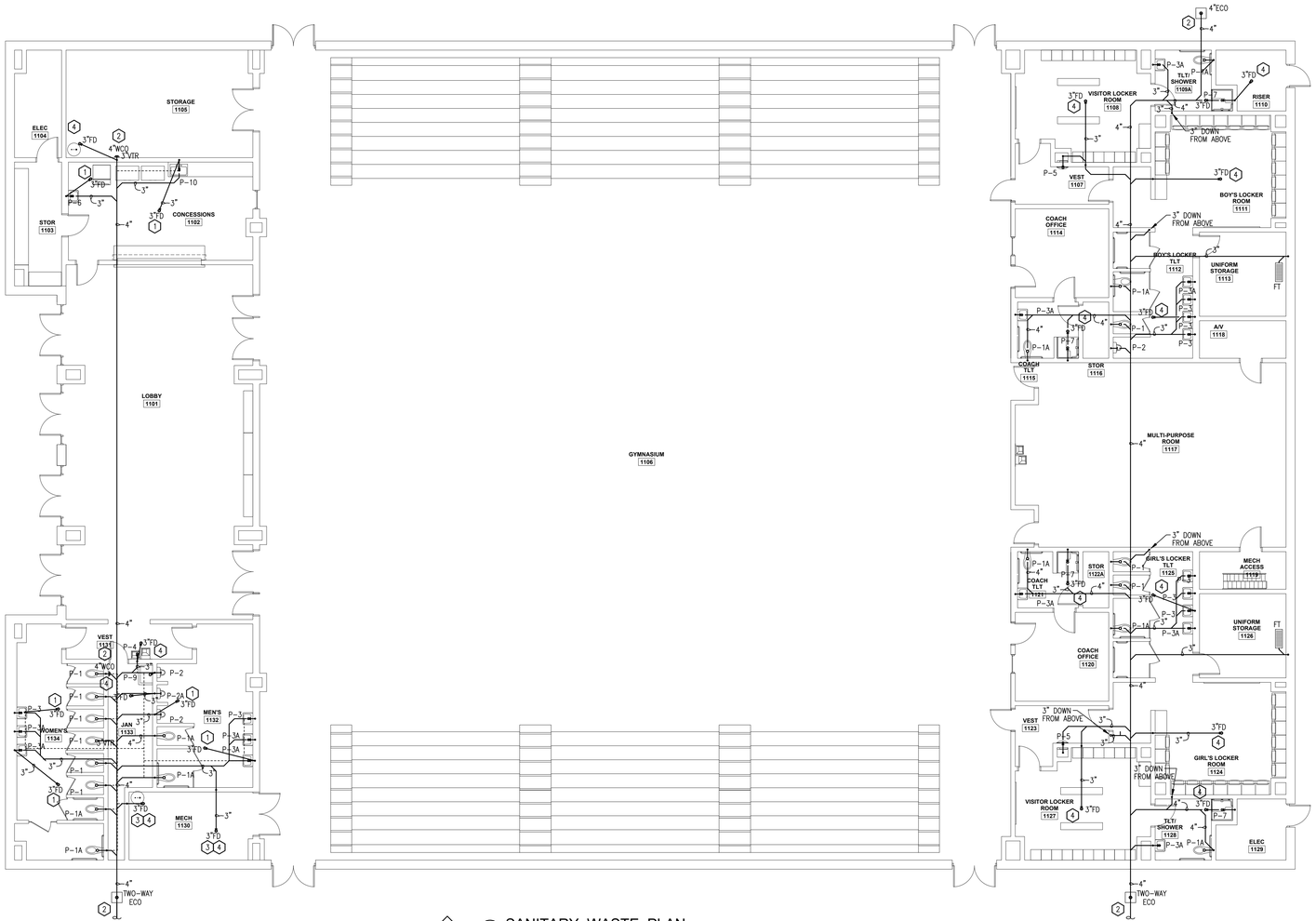
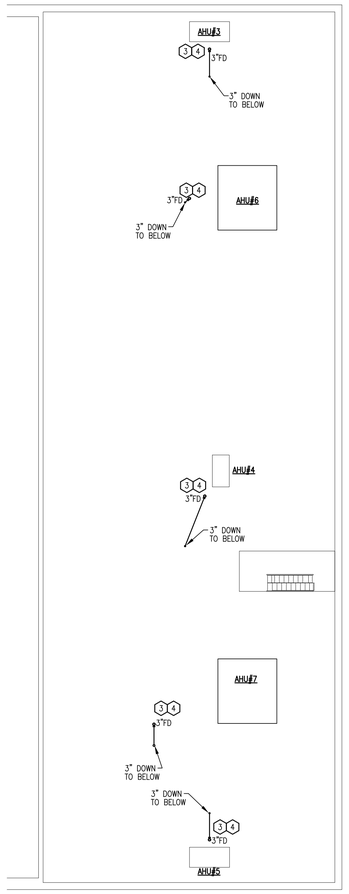
FIRE SUPPRESSION ADDITIONAL PLAN

FP102

Scott, M. Cella, Kevin/2025/ Mary G. Montgomery Gymnasium/25138 FP102.dwg - 17 AUG 2026 - 13:22



1 SANITARY WASTE PLAN
1/8" = 1'-0"



2 MEZZANINE SANITARY WASTE PLAN
1/8" = 1'-0"

SANITARY WASTE GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
2. UNDERGROUND SANITARY WASTE AND VENT PIPING SHALL BE SMOKE TESTED PRIOR TO INSTALLATION OF PLUMBING FIXTURES.
3. OFFSET PIPING WITHIN CEILING SPACE AS REQUIRED TO LOCATE PIPE RISERS AND DROPS WITHIN WALLS AS SHOWN ON PLANS.
4. PROVIDE INDICATED FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS WITH TRAP PRIMER PIPING FROM A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT WITH 1/2" ISOLATION VALVE. MAXIMUM OF FOUR FIXTURES PER TRAP PRIMER UNIT. UNIT TO BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
5. ALL ABOVE-GRADE HORIZONTAL PORTIONS OF THE SANITARY WASTE PIPING SERVING FOR CONDENSATE DISPOSAL SHALL BE INSULATED WITH 1" THICK SECTIONAL FIBERGLASS INSULATION WITH AN "ASJ" JACKET. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAIN TRAP SHALL ALSO BE INSULATED.
6. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
7. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ALL VTRS AND ANY OTHER ROOF PENETRATIONS WITH ROOFTOP MECHANICAL EQUIPMENT AND OUTSIDE AIR INTAKES. A MINIMUM DISTANCE OF 12 FEET SHALL BE MAINTAINED BETWEEN ALL OUTSIDE AIR INTAKES AND VTRS PER 2021 IMC.
8. ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.

KEYNOTES:

1. EXTEND TRAP PRIMER PIPING FROM FLOOR DRAIN UP INSIDE WALL FOR CONNECTION TO A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT.
2. CLEANOUT TO BE COMPLETELY SERVICE ACCESSIBLE.
3. DRAIN FOR CONDENSATE DISPOSAL FROM HVAC EQUIPMENT. COORDINATE FINAL LOCATION OF DRAIN WITH HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL PROVIDE A SUFFICIENTLY SIZED AIR GAP FITTING AT DRAIN TO ACCOMODATE HVAC EQUIPMENT AND AUXILIARY PAN CONDENSATE DRAINS.
4. PROVIDE DRAIN WITH TRAPGUARD DEVICE (OR EQUAL) AS TRAP PRIMER ALTERNATE.

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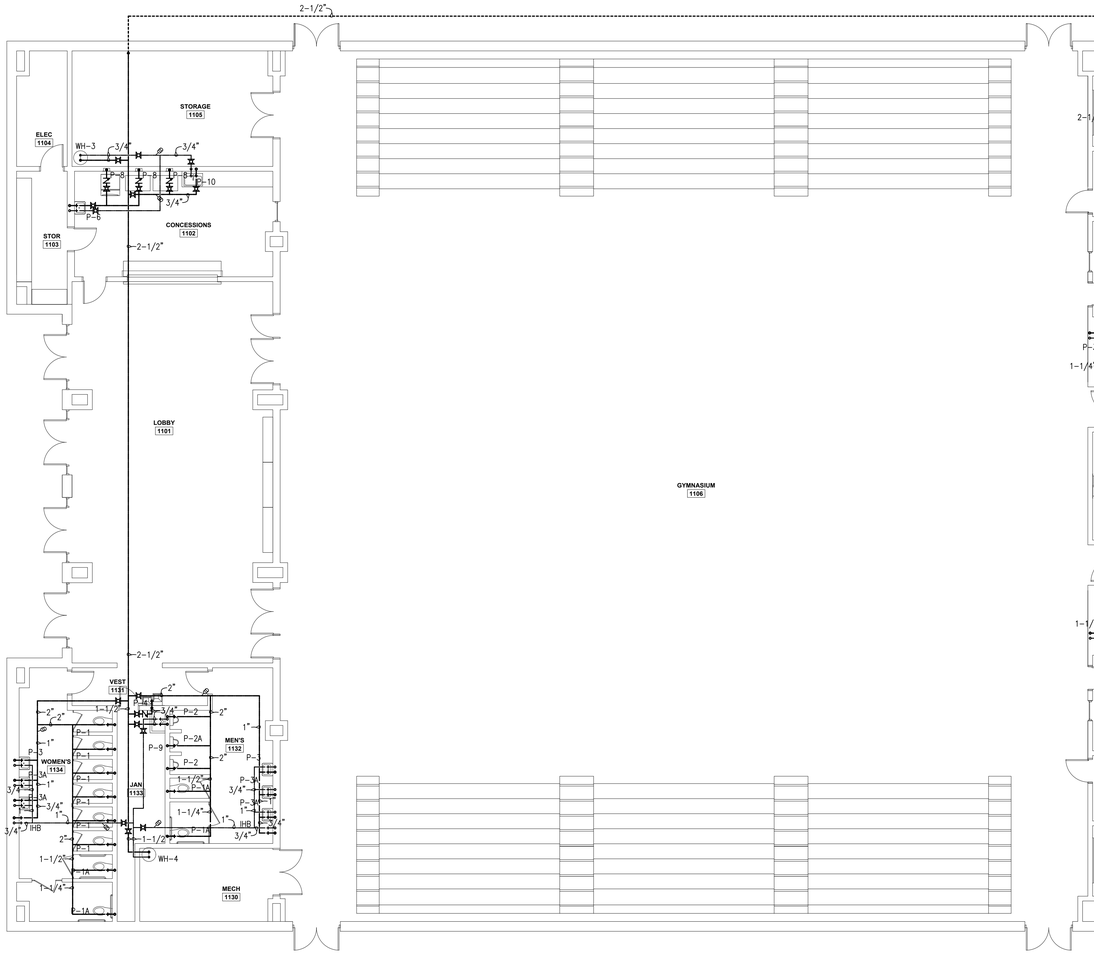
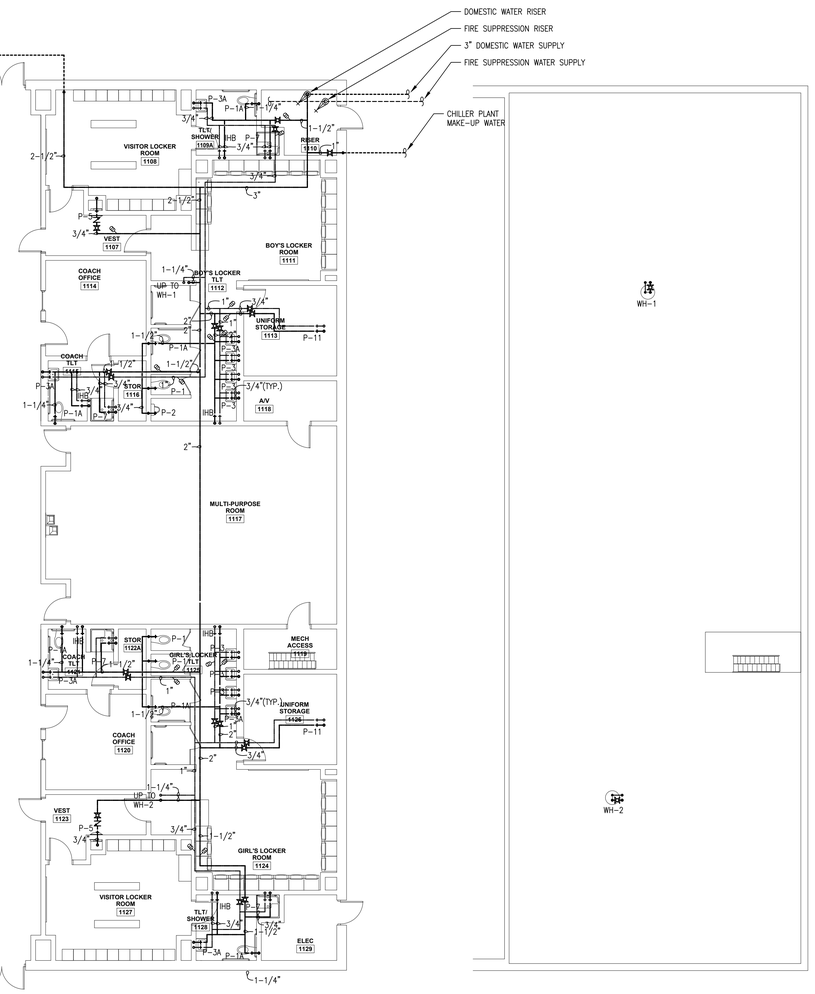
SANITARY WASTE PLAN

P101





1 DOMESTIC WATER PLAN
1/8" = 1'-0"
4'-0" 16'-0"
0" 8'-0" 32'-0"
N

2 MEZZANINE DOMESTIC WATER PLAN
1/8" = 1'-0"
4'-0" 16'-0"
0" 8'-0"
N

DOMESTIC WATER GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
2. OFFSET PIPING WITHIN CEILING SPACE AS REQUIRED TO LOCATE PIPE RISERS AND DROPS WITHIN WALLS AS SHOWN ON PLANS.
3. ALL FIXTURES MUST BE PROVIDED WITH STOPS. THOSE STOPS MUST BE FULLY ACCESSIBLE.
4. SINKS LOCATED IN PUBLIC AREAS MUST BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS INDICATED WITH TRAP PRIMER PIPING FROM A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT WITH 1/2" ISOLATION VALVE. MAXIMUM OF FOUR FIXTURES PER TRAP PRIMER UNIT. UNIT TO BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
6. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
7. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ALL VTR'S AND ANY OTHER ROOF PENETRATIONS WITH ROOFTOP MECHANICAL EQUIPMENT AND OUTSIDE AIR INTAKES. A MINIMUM DISTANCE OF 12 FEET SHALL BE MAINTAINED BETWEEN ALL OUTSIDE AIR INTAKES AND VTR'S PER 2021 IMC.
8. ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.
9. PLUMBING CONTRACTOR SHALL FULLY COORDINATE PIPE ROUTING WITH MECHANICAL CONTRACTOR TO ENSURE EFFICIENT UTILIZATION OF AVAILABLE SPACE. DUCT ROUTING SHALL HAVE PRIORITY OVER PRESSURIZED-PIPE ROUTING.

DOMESTIC WATER KEYNOTES:

1. EXTEND TRAP PRIMER PIPING FROM FLOOR DRAIN UP INSIDE WALL FOR CONNECTION TO A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT.
2. SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT LOCATED ABOVE THE CEILING. PROVIDE WITH 1/2" BRANCH AND ISOLATION VALVE. CONNECT FOUR FIXTURES (MAX.) PER UNIT.

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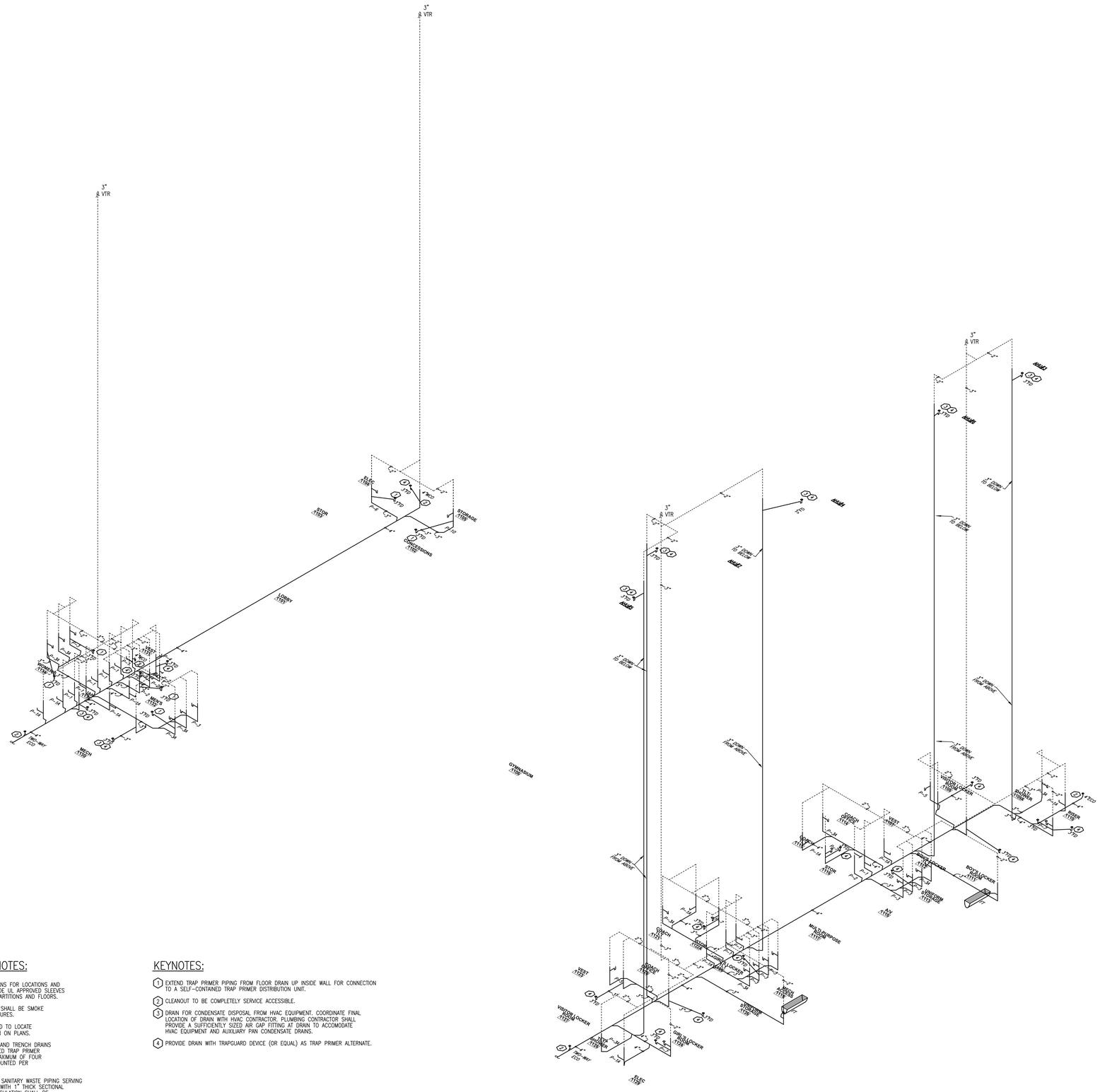
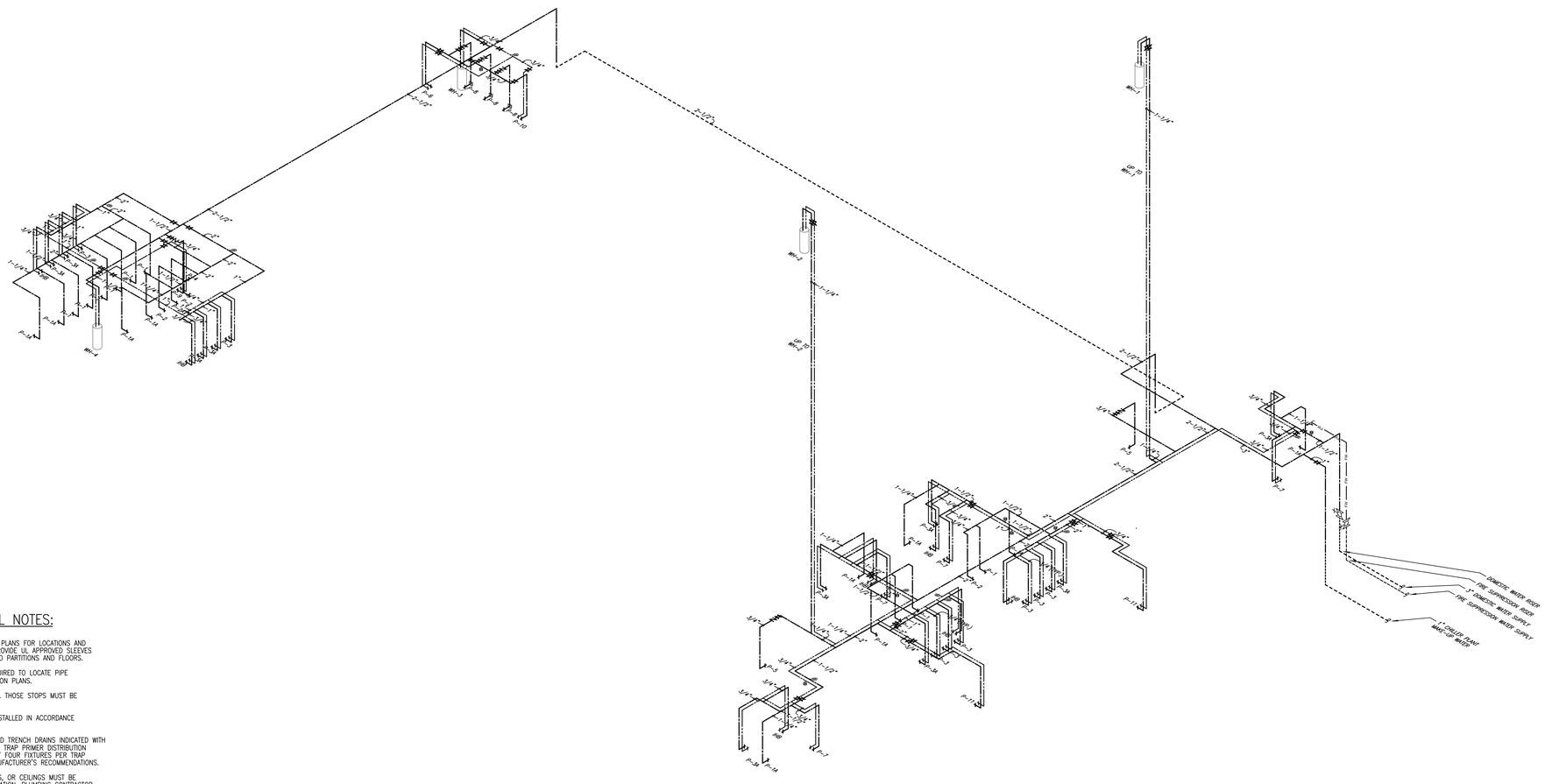
DOMESTIC WATER PLAN

P201


3" Ø VTR
GYMNASIUM
ELEC
AHU
MEZ-MAT
ECD
VESTIBULE
CORRIDOR
STORAGE
DIRECTORS OFFICE
MEN'S
WOMEN'S
VESTIBULE
CORRIDOR
STORAGE
DIRECTOR'S OFFICE
WALK-IN PANTRY
WALK-IN PANTRY
WALK-IN PANTRY



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DOMESTIC WATER KEYNOTES:

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1 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE

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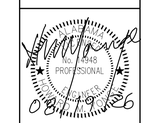

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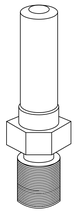
DOMESTIC WATER RISER DIAGRAM

P302

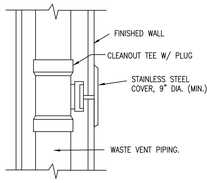
Draft: M:\Jobs_Active\25\2504 Mary G Montgomery Gymnasium\2504 ATCU.dwg - 17 AUGUST 2026 12:01



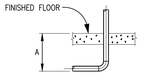
AIR PRELOAD PSI	FIXTURE UNITS	P.D.I. SYMBOL
60	1–11	A
60	12–32	B
60	33–60	C
60	61–113	D
60	114–154	E
60	155–330	F

NOTE: WATER HAMMER ARRESTORS TO BE LOCATED ABOVE ELEVATION OF CEILING.

WATER HAMMER DETAIL
NOT TO SCALE



WALL CLEANOUT DETAIL
NOT TO SCALE



NOM. PIPE DIAMETER	MINIMUM A DIMENSION
1"	12"
2"	15"
3"	18"
4"	20"
6"	24"
8"	30"

PIPING SLAB-PENETRATION DETAIL
NOT TO SCALE

NOTES: ADJACENT PIPING SLAB PENETRATIONS SHALL HAVE A MINIMUM OF ONE INCH CLEARANCE BETWEEN THEM.

ALL PENETRATIONS SHALL BE MADE VERTICALLY.

PLUMBING LEGEND

AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
CW	COLD WATER
ECO	EXTERIOR CLEANOUT
FD	FLOOR DRAIN
FPHB	EXTERIOR HOSE BIBB
FT	FLOOR TRENCH
HW	HOT WATER
IHB	INTERIOR HOSE BIBB
WCO	WALL CLEANOUT
VTR	VENT THRU ROOF
	COLD WATER PIPING
	UNDERGROUND WATER PIPING
	140° HOT WATER PIPING
	HOT WATER RETURN PIPING
	SANITARY WASTE PIPING
	FIRE WATER PIPING
	VENT PIPING
	BALL VALVE
	WATTS MODEL SD-3 DUAL CHECK WITH ATMOSPHERIC PORT. (OR EQUIVALENT)
	WATTS MODEL B9 DUAL CHECK WITH ATMOSPHERIC PORT. (OR EQUIVALENT)
	P-TRAP
	VENT THRU ROOF
	WATER HAMMER ARRESTOR

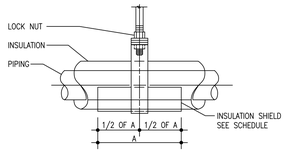
WATER HEATER SCHEDULE

MARK	LOCATION	CAPACITY (GALLONS)	STORAGE TEMP °F	ELECTRICAL DATA VOLTS	PHASE	Hz	kW	REMARKS
WH-1	MEZZANINE	40	140	208	3	60	9.0	GLASS-LINED, FOAM INSULATED, ENERGY MISER TYPE WITH EXPANSION TANK, T&P RELIEF VALVE, AUXILIARY DRAIN PAN AND HEAT TRAPS. (BASIS OF DESIGN: RHEEM-RUUD ELD40-TB.)
WH-2	MEZZANINE	40	140	208	3	60	9.0	GLASS-LINED, FOAM INSULATED, ENERGY MISER TYPE WITH EXPANSION TANK, T&P RELIEF VALVE, AUXILIARY DRAIN PAN AND HEAT TRAPS. (BASIS OF DESIGN: RHEEM-RUUD ELD66-TB.)
WH-3	STORAGE 1105	40	140	208	3	60	9.0	GLASS-LINED, FOAM INSULATED, ENERGY MISER TYPE WITH EXPANSION TANK, T&P RELIEF VALVE, AUXILIARY DRAIN PAN AND HEAT TRAPS. (BASIS OF DESIGN: RHEEM-RUUD ELD40-TB.)
WH-4	MECH. 1135	40	140	208	3	60	9.0	GLASS-LINED, FOAM INSULATED, ENERGY MISER TYPE WITH EXPANSION TANK, T&P RELIEF VALVE, AUXILIARY DRAIN PAN AND HEAT TRAPS. (BASIS OF DESIGN: RHEEM-RUUD ELD40-TB.)

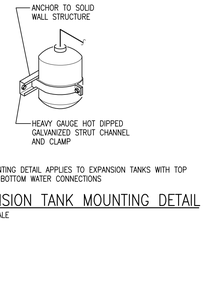
NOTES:
1. WH-1 SHALL HAVE TWO ELEMENTS AT 4.5kW EACH WIRED FOR SIMULTANEOUS OPERATION.
2. WH-2 SHALL HAVE TWO ELEMENTS AT 4.5kW EACH WIRED FOR SIMULTANEOUS OPERATION.
3. WH-3 SHALL HAVE TWO ELEMENTS AT 4.5kW EACH WIRED FOR SIMULTANEOUS OPERATION.
4. WH-4 SHALL HAVE TWO ELEMENTS AT 4.5kW EACH WIRED FOR SIMULTANEOUS OPERATION.

INSULATION SHIELD SCHEDULE

SIZE	DIM. A	GA. STEEL
UP TO 4"	12"	10"
5" & 6"	18"	10"
ABOVE 6"	24"	14"

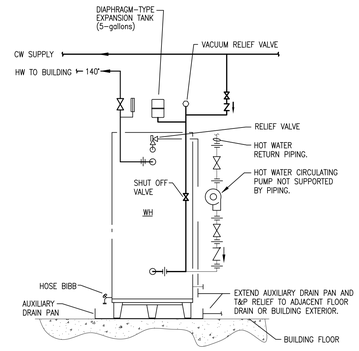


PIPE SHIELD DIAGRAM
NOT TO SCALE



NOTE: MOUNTING DETAIL APPLIES TO EXPANSION TANKS WITH TOP AND BOTTOM WATER CONNECTIONS

EXPANSION TANK MOUNTING DETAIL
NOT TO SCALE



NOTES: 1. AUXILLARY DRAIN PAN TO BE SEALED TO FLOOR WITH CAULK OR OTHER ACCEPTABLE METHODS.

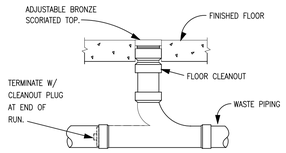
2. EXPANSION TANK SHALL NOT BE SUPPORTED BY PIPING. COMPLY WITH IPC 308.10 THERMAL EXPANSION TANKS.

ELECTRIC WATER HEATER WITH CIRC. PUMP DETAIL
NOT TO SCALE

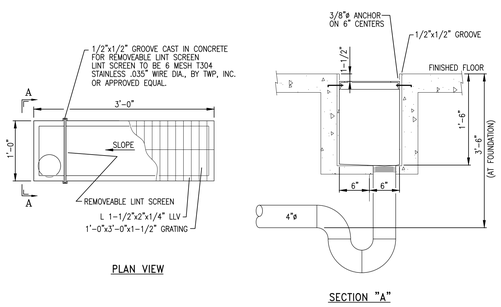
PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	CONNECTIONS WASTE	CW	HW	DESCRIPTION
P-1	WATER CLOSET	4"	1"	--	16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER.
P-1A	WATER CLOSET (HANDICAPPED)	4"	1"	--	16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER. INSTALL PER ADA REQUIREMENTS.
P-2	URINAL	2"	3/4"	--	WALL HUNG TYPE WITH FLUSH VALVE AND FLOOR MOUNTED CARRIER. MANUAL 1.0 gpf FLUSH
P-2A	URINAL (HANDICAPPED)	2"	3/4"	--	WALL HUNG TYPE WITH FLUSH VALVE AND FLOOR MOUNTED CARRIER. MANUAL 1.0 gpf FLUSH. INSTALL PER ADA REQUIREMENTS.
P-3	LAVATORY	1-1/2"	3/4"	3/4"	WALL HUNG VITREOUS CHINA WITH SINGLE LEVER FAUCET AND GRID WASTE, 1-1/2" 17 GA. P-TRAP, FLEXIBLE SUPPLIES AND STOPS. FLOOR MOUNTED CONCEALED ARM CARRIER, AND INSULATION KIT.
P-3A	LAVATORY (HANDICAPPED)	1-1/2"	3/4"	3/4"	WALL HUNG VITREOUS CHINA WITH SINGLE LEVER FAUCET AND GRID WASTE, 1-1/2" 17 GA. P-TRAP, FLEXIBLE SUPPLIES AND STOPS. FLOOR MOUNTED CONCEALED ARM CARRIER, AND INSULATION KIT. INSTALL PER ADA REQUIREMENTS.
P-4	WATER COOLER (INTERIOR)	1-1/2"	1/2"	--	WALL HUNG, DUAL-HEIGHT COOLER 1-1/4", 17 GA P-TRAP, FLEXIBLE SUPPLY WITH ANGLE STOP AND FLOOR-SUPPORTED CARRIER. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL PER ADA REQUIREMENTS. UNIT TO INCLUDE BOTTLE-FILLING STATION.
P-5	WATER COOLER (INTERIOR)	1-1/2"	1/2"	--	WALL HUNG, SINGLE-UNIT COOLER 1-1/4", 17 GA P-TRAP, FLEXIBLE SUPPLY WITH ANGLE STOP AND FLOOR-SUPPORTED CARRIER. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL PER ADA REQUIREMENTS. UNIT TO INCLUDE BOTTLE-FILLING STATION.
P-6	KITCHEN HAND SINK	1-1/2"	3/4"	3/4"	WALL MOUNTED SS SINK WITH BACK SPLASH-MOUNTED GOOSENECK FAUCET, P-TRAP, AND WALL CARRIER. PROVIDE FLEXIBLE SUPPLIES WITH STOPS, UNDER COUNTER POINT OF USE THERMAL MIXING VALVE, AND SPLASH GUARDS TO PROTECT FOOD PREP AREAS.
P-7	SHOWER	3"	3/4"	3/4"	PRE-FABRICATED SHOWER UNIT. PROVIDE WITH PRESSURE BALANCED ANTI-SCALD SINGLE LEVER VALVE WITH HAND HELD SHOWER HEAD, VERTICAL BAR, HOSE, VACUUM BREAKER, AND WALL SUPPLY ELBOW. INSTALL PER ADA REQUIREMENTS.
P-8	ICE MAKER BOX	--	1/2"	--	GALVANIZED STEEL, WALL RECESSED BOX WITH 1/2" COLD WATER VALVE. PROVIDE WITH BFP FOR WATER CONNECTION TO ICE MAKERS PER IPC 608.3. REFERENCE WATTS MODEL SD-3 DUAL CHECK WITH ATMOSPHERIC PORT.
P-9	JANITOR'S SINK	3"	3/4"	3/4"	36"x24"x12" FLOOR-MOUNTED TYPE WITH WALL-MOUNTED FAUCET, VACUUM BREAKER, WALL BRACE, 3" IPS DRAIN, STAINLESS STEEL GRATE AND WALL SPLASH GUARDS, AND MOP RACK.
P-10	CONCESSIONS SINK	2"	3/4"	3/4"	COUNTER-MOUNTED 30"x20" SS SINK, WITH DECK-MOUNTED GOOSENECK FAUCET, AND P-TRAP. PROVIDE FLEXIBLE SUPPLIES WITH STOPS, UNDER COUNTER POINT OF USE THERMAL MIXING VALVE, AND SPLASH GUARDS TO PROTECT FOOD PREP AREAS.
P-11	WASHING MACH. CONNECTIONS	--	3/4"	3/4"	

NOTE: FIXTURES SHALL BE WHITE AND FAUCETS SHALL BE POLISHED CHROME UNLESS OTHERWISE INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL HANDICAPPED FIXTURES SHALL BE ADA COMPLIANT AND INSTALLED PER ADA REQUIREMENTS. REFERENCE ARCHITECTURAL PLANS FOR INSTALLATION HEIGHTS. ALL DOMESTIC WATER PIPING ABOVE THE SLAB SHALL BE INSULATED INCLUDING PIPING INSIDE WALLS. PIPING SHALL NOT BE INSTALLED IN A MANNER IN WHICH CONTACT WITH MASONRY PRODUCTS IS ALLOWED. EACH FIXTURE MUST BE PROVIDED WITH STOPS. ALL STOPS MUST BE FULLY ACCESSIBLE. TEMPERED WATER FOR PUBLIC LAVATORIES MUST BE SUPPLIED THROUGH A TEMPERATURE-LIMITING DEVICE THAT CONFORMS TO ASSE 1070. SEE 2021 IPC 419.5. MAKE REVISIONS AS REQUIRED FOR COMPLIANCE.



FLOOR CLEANOUT DETAIL
NOT TO SCALE



PLAN VIEW

SECTION "A"

LAUNDRY ROOM TRENCH DRAIN DETAIL
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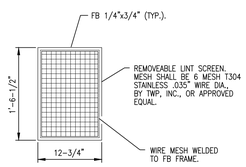

LINT SCREEN DETAIL
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DATE: 08/19/26
PROJ NO: 25-138

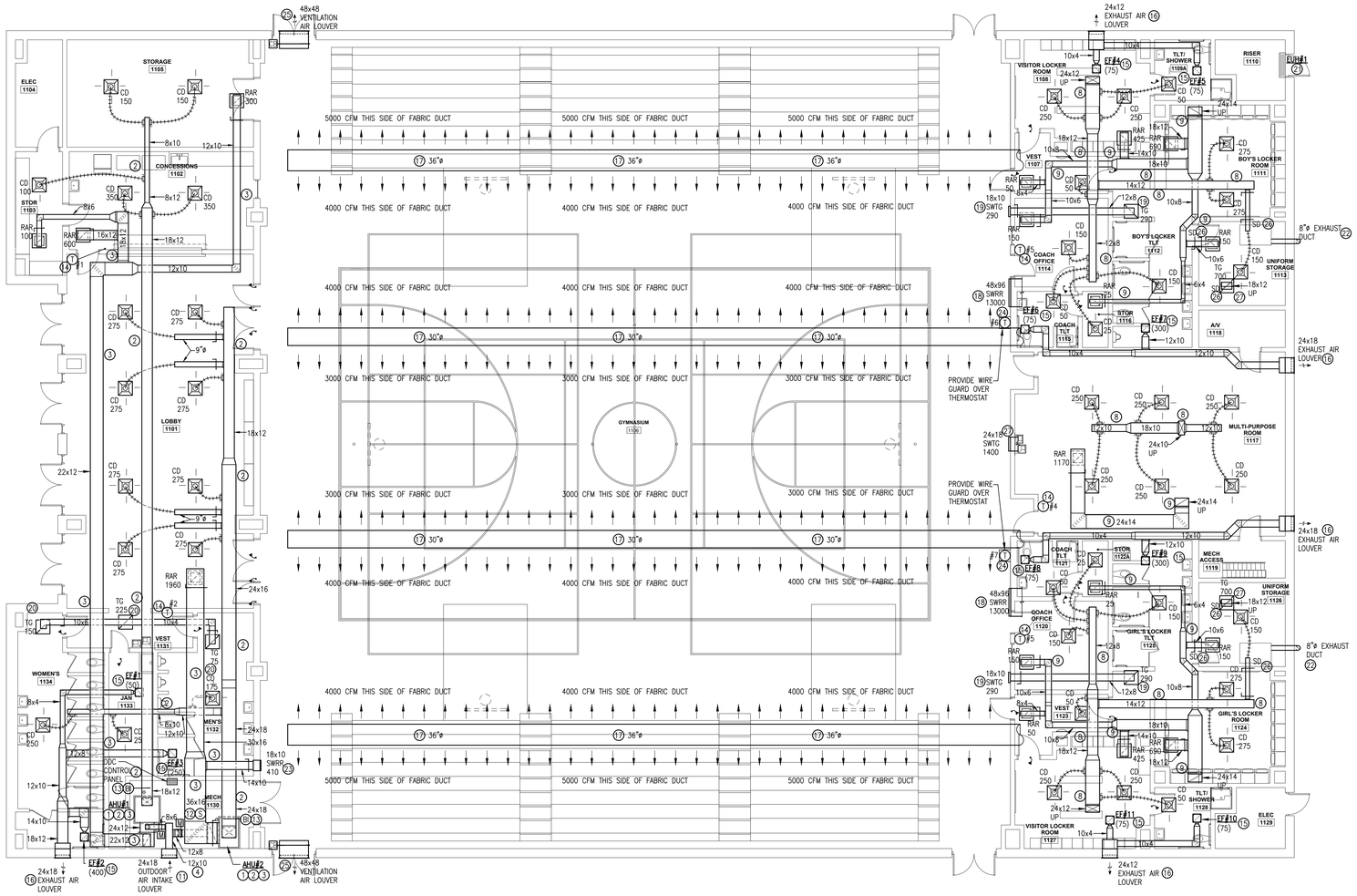
REVISIONS

#	DESC	DATE

PLUMBING LEGEND, SCHEDULES, & DETAILS

P401

Dwg. N:\Jobs_Active\25004 Mary G Montgomery Gymnasium\25004 P401.dwg 17 AUGUST 2026 1220



1 HVAC PLAN
1/8" = 1'-0"
4'-0" 16'-0"
0" 8'-0" 32'-0"
N

2 MEZZANINE HVAC PLAN
1/8" = 1'-0"
4'-0" 16'-0"
0" 8'-0"
N

HVAC NEW WORK KEY NOTES

1. AIR HANDLING UNIT SHALL BE BE MOUNTED ON 6" HIGH CONCRETE HOUSE KEEPING PAD IN THE MECHANICAL ROOM WITH AUXILIARY DRAIN PAN. DRAIN PAN SHALL BE TWO INCHES LARGER THAN UNIT IN ALL DIRECTIONS. EXTEND FROM FULL SIZE OF UNIT OPENING A CONDENSATE DRAIN WITH P-TRAP TO DISCHARGE INTO FLOOR DRAIN. CONDENSATE DRAIN LINE SHALL BE COPPER. INSULATE THE ENTIRE LENGTH OF DRAIN LINE AND SUPPORT EVERY 48 INCHES WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. INCLUDE IN P-TRAP A FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN UNIT AS DRAINAGE SYSTEM FLOODS.

2. SUPPLY AIR DUCTWORK SHALL EXTEND UP FROM UNIT FULL SIZE OF OPENING WITH TRANSITION TO INDICATED DUCT SIZE. ROUTE DUCT ABOVE CEILING GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS. EXTEND BRANCH DUCTS FOR CONNECTION OF DESIGNATED AIR DEVICES. INCLUDE A MANUAL VOLUME DAMPER IN EACH BRANCH DUCT AND BALANCE AIR DEVICE TO INDICATED AIR FLOW.

3. RETURN AIR DUCTWORK SHALL BE EXTENDED FROM UNIT FULL SIZE OF UNIT OPENING AND ELBOW UP TO ABOVE CEILING. COORDINATE FINAL ELEVATION OF DUCTWORK WITH ADJACENT DUCT SYSTEMS. EXTEND BRANCH DUCTS FROM TRUNK DUCT FOR CONNECTION TO DESIGNATED AIR DEVICES. INCLUDE A MANUAL VOLUME DAMPER IN EACH BRANCH DUCT AND BALANCE AIR DEVICE TO INDICATED AIR FLOW. INSTALL A MANUAL VOLUME DAMPER IN RETURN AIR DUCT UP STREAM OF OUTDOOR AIR INTAKE.

4. OUTDOOR INTAKE DUCTWORK SHALL BE ROUTED UP FROM RETURN AIR DUCT AND OVER TO OUTDOOR AIR INTAKE PLENUM. INCLUDE A MANUAL VOLUME DAMPER AND MOTORIZED DAMPER IN OUTDOOR AIR INTAKE DUCT. BALANCE THE MANUAL VOLUME DAMPER TO INDICATED AIR FLOW. INTERLOCK THE MOTORIZED DAMPER WITH THE BUILDING AUTOMATION CONTROL SYSTEM SUCH THAT DURING OCCUPIED HOURS THE MOTORIZED DAMPER SHALL BE OPEN AND OTHERWISE, CLOSED.

5. AIR HANDLING UNIT SHALL BE MOUNTED ON THE MECHANICAL MEZZANINE WITH AUXILIARY DRAIN PAN. DRAIN PAN SHALL BE TWO INCHES LARGER THAN UNIT IN ALL DIRECTIONS. EXTEND FROM FULL SIZE OF UNIT OPENING A CONDENSATE DRAIN WITH P-TRAP TO DISCHARGE INTO FLOOR DRAIN. CONDENSATE DRAIN LINE SHALL BE COPPER. INSULATE THE ENTIRE LENGTH OF DRAIN LINE AND SUPPORT EVERY 48 INCHES WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. INCLUDE IN P-TRAP A FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN UNIT AS DRAINAGE SYSTEM FLOODS.

6. SUPPLY AIR DUCT SHALL BE EXTENDED UP FROM FULL SIZE OF AIR HANDLING UNIT OPENING AND TRANSITION TO INDICATED DUCT SIZE. OFFSET DUCT TO AVOID OBSTRUCTIONS AND INTERFERENCES. SUPPLY AIR DUCTWORK SHALL OFFSET UPWARD TO PENETRATE WALL INTO GYMNASIUM AT AN ELEVATION FOR BOTTOM OF DUCTWORK TO BE 12 INCHES MINIMUM ABOVE LIGHT FIXTURES. TRANSITION DUCT FROM RECTANGULAR TO SQUARE AND TO SPIRAL PRIOR TO WALL PENETRATION. EXTEND SPIRAL SUPPLY DUCT AS RIGID DOUBLE WALL A MINIMUM OF 12 INCHES INTO GYMNASIUM FOR CONNECTION OF FABRIC SPIRAL DUCTWORK. PROVIDE A DUCT ESCUTCHEON AROUND SPIRAL DUCT ON WALL PENETRATION.

7. RETURN AIR DUCTWORK SHALL EXTENDED FROM UNIT FULL SIZE OF OPENING AND TRANSITION TO INDICATED DUCT SIZE. ROUTE DUCT OVER FOR CONNECTION TO SIDEWALL REGISTER. INSTALL A MANUAL VOLUME DAMPER IN RETURN AIR DUCT UPSTREAM OF OUTSIDE AIR INTAKE DUCT.

8. SUPPLY AIR DUCTWORK SHALL EXTENDED FROM UNIT FULL SIZE OF OPENING AND TRANSITION TO INDICATED DUCT SIZE. ROUTE DUCT OVER AND DOWN THROUGH FLOOR OF MEZZANINE TO ABOVE CEILING GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS. EXTEND BRANCH DUCTS FOR CONNECTION OF DESIGNATED AIR DEVICES. INCLUDE A MANUAL VOLUME DAMPER IN EACH BRANCH DUCT AND BALANCE AIR DEVICE TO INDICATED AIR FLOW.

9. RETURN AIR DUCTWORK SHALL EXTENDED FROM UNIT FULL SIZE OF OPENING AND TRANSITION TO INDICATED DUCT SIZE. ROUTE DUCT OVER AND DOWN THROUGH FLOOR OF MECHANICAL MEZZANINE TO ABOVE CEILING GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS. EXTEND BRANCH DUCTS FOR CONNECTION OF DESIGNATED AIR DEVICES. INCLUDE A MANUAL VOLUME DAMPER IN RETURN AIR DUCT UPSTREAM OF OUTSIDE AIR INTAKE DUCT.

10. OUTDOOR AIR INTAKE DUCTWORK TO BE EXTENDED UP FROM RETURN AIR SYSTEM FOR CONNECTION TO OUTDOOR AIR INTAKE PLENUM. INCLUDE A MANUAL VOLUME DAMPER AND MOTORIZED DAMPER IN OUTDOOR AIR INTAKE DUCT. BALANCE MANUAL VOLUME DAMPER TO INDICATED AIR FLOW. INTERLOCK MOTORIZED DAMPER WITH BUILDING AUTOMATION SYSTEM SUCH THAT DAMPER SHALL BE OPEN DURING OCCUPIED HOURS AND, OTHERWISE, CLOSED.

11. WALL MOUNTED OUTDOOR AIR INTAKE LOUVER SHALL BE WEATHERPROOF AND HURRICANE RATED PER MIAMI-DADE STANDARDS. PROVIDE A FULL SIZE PLENUM FOR CONNECTION TO OUTDOOR AIR INTAKE DUCTWORK. COORDINATE FINAL LOCATION OF LOUVER WITH ARCHITECTURAL DRAWINGS PRIOR TO BEGINNING ANY WORK. INSTALL LOUVER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. MAINTAIN A MINIMUM OF 10 FEET BETWEEN OUTDOOR AIR AND EXHAUST AIR LOUVERS.

12. SMOKE DETECTOR MOUNTED IN RETURN AIR DUCTWORK. SMOKE DETECTOR SHALL UP STREAM OF OUTDOOR AIR INTAKE DUCT. AS DETECTOR IS ACTIVATED THE AIR HANDLING UNIT SHALL AUTOMATICALLY SHUT DOWN AND A SIGNAL SENT TO THE FIRE ALARM PANEL.

13. AIR PURIFICATION DEVICE TO BE INSTALLED IN SUPPLY AIR DUCT OR ON AIR HANDLING UNIT PER MANUFACTURER'S INSTRUCTIONS. INTERLOCK AIR PURIFICATION DEVICE WITH AIR HANDLING UNIT SUCH THAT AS UNIT IS OPERATING THE DEVICE SHALL BE FUNCTIONAL AND AS THE UNIT IS NOT OPERATING THE DEVICE SHALL NOT BE FUNCTIONAL.

14. WALL MOUNTED CONTROLLER FOR TEMPERATURE AND HUMIDITY CONTROL AND MONITORING OF CARBON DIOXIDE. CONTROLLER SHALL BE CONNECTED TO THE BUILDING AUTOMATION SYSTEM.

15. CEILING MOUNTED EXHAUST FAN WITH EXHAUST DUCT ROUTED FOR CONNECTION TO EXHAUST AIR MANIFOLD. ROUTE EXHAUST MANIFOLD GENERALLY AS SHOWN WITH OFFSETS TO AVOID OBSTRUCTIONS. CONNECT MANIFOLD TO PLENUM BEHIND WALL MOUNTED EXHAUST AIR LOUVER. INTERLOCK CONTROL OF EXHAUST FAN AS SCHEDULED.

16. WALL MOUNTED EXHAUST AIR LOUVER TO BE WEATHERPROOF AND HURRICANE RATED PER MIAMI-DADE STANDARDS. ADJUST FINAL LOCATION OF LOUVER TO ACCOMMODATE ARCHITECTURAL PLANS. EXHAUST AIR MANIFOLD TO BE EXTENDED TO EXTERIOR WALL FOR CONNECTION TO EXHAUST AIR PLENUM. PLENUM SHALL BE FULL SIZE OF LOUVER. ADJUST FINAL LENGTH OF PLENUM TO ACCOMMODATE DUCT CONNECTIONS. PLENUM AND EXHAUST DUCT SHALL BE INSULATED.

17. FABRIC SPIRAL DUCTWORK SHALL BE INSTALLED WITH THE BOTTOM OF THE DUCT A MINIMUM OF 12 INCHES ABOVE THE LIGHT FIXTURES. MECHANICAL CONTRACTOR TO COORDINATE FINAL DUCT ELEVATION WITH ARCHITECTURAL DRAWINGS. FABRIC DUCTWORK SHALL BE PROVIDED WITH A FULL SUPPORT STRUCTURAL SYSTEM THAT PREVENTS THE DUCTWORK FROM COLLAPSING AS THE AIR HANDLING UNIT IS NOT OPERATING.

18. WALL MOUNTED RETURN AIR REGISTER (4 FT X 7 FT) TO BE POSITIONED WITH BOTTOM 6 INCHES (+/-) ABOVE FLOOR IN MEZZANINE. COORDINATE FINAL POSITION WITH ARCHITECTURAL DRAWINGS. REGISTER SHALL BE HEAVY DUTY GYMNASIUM RATED TYPE. INCLUDE A FULL SIZE PLENUM BEHIND REGISTER 24 INCHES MINIMUM DEEP. BOTH PLENUM AND WALL REGISTER SHALL BE DEMOUNTABLE FOR EQUIPMENT ACCESS.

19. TRANSFER AIR DUCT WITH SIDEWALL TRANSFER AIR GRILLE (HEAVY DUTY GYMNASIUM TYPE) ON WALL AND A CEILING MOUNTED GRILLE. COORDINATE FINAL LOCATION OF SIDEWALL GRILLE WITH ARCHITECTURAL DRAWINGS.

20. TRANSFER AIR DUCT WITH TRANSFER GRILLES AT EACH END AND ONE TRANSFER GRILLE AT CENTER.

21. WALL MOUNTED ELECTRIC UNIT HEATER WITH INTEGRAL SET POINT ADJUSTABLE CONTROLS. BOTTOM OF HEATER SHALL BE 6 FEET ABOVE FINISHED FLOOR. SET CONTROLLER FOR 45°F SUCH THAT UNIT IS ENERGIZED BELOW THIS SETTING.

22. CLOTHES DRYER LINT EXHAUST VENT TO BE EXTENDED FROM FULL SIZE OF DRYER VENT OPENING (VERIFY AS 8 INCHES). EXTEND EXHAUST VENT THROUGH EXTERIOR WALL AT A HEIGHT OF 36" ABOVE GRADE AND TERMINATE WITH 45 DEGREE ELBOW IN DOWN POSITION.

23. SIDEWALL RETURN AIR REGISTER. COORDINATE FINAL POSITION WITH ARCHITECTURAL DRAWINGS. REGISTER SHALL BE HEAVY DUTY GYMNASIUM RATED TYPE. INCLUDE A FULL SIZE PLENUM BEHIND REGISTER 16 INCHES MINMUM DEEP.

24. WALL MOUNTED TEMPERATURE CONTROLLER SHALL BE COMBINATION TEMPERATURE, RELATIVE HUMIDITY AND CO2 MONITOR AS PROVIDED BY CONTROLS CONTRACTOR. CONTROLLER SHALL HAVE DIGITAL DISPLAY AND BE SETPOINT ADJUSTABLE. PROVIDE THERMOSTAT WITH HEAVY DUTY WIRE GUARD PROTECTIVE COVERING, AS NOTED.

25. WALL MOUNTED PRESSURE RELIEF LOUVER. LOUVER SHALL BE WEATHERPROOF AND HURRICANE RATED PER MIAMI-DADE STANDARDS. LOUVER SHALL HAVE ADJUSTABLE COUNTER BALANCED DAMPER. COUNTER BALANCED DAMPER SHALL BE INITIALLY SET TO RELEASE PRESSURE AT 0.05" SP. AS BUILDING POSITIVE PRESSURE IS GREATER THAN SET POINT THE LOUVER SHALL OPEN.

26. SMOKE DAMPER INSTALLED IN DUCTWORK IN WALL PENETRATION. DAMPER SHALL BE INTERLOCKED WITH THE FIRE ALARM SYSTEM. DAMPER SHALL BE ACCESSIBLE THROUGH 12"X12" ACCESS DOOR OR REMOVABLE DUCT SEGMENT.

27. TRANSFER AIR DUCT WITH TRANSFER GRILLE AT END SHALL BE ROUTED UP INTO MECHANICAL MEZZANINE. DUCT SHALL BE ROUTED TO HIGH ELEVATION AND OVER TO FULL SIZE PLENUM ON BACK OF SIDEWALL TRANSFER GRILLE. COORDINATE DUCT ELEVATION WITH ADJACENT DUCTWORK. COORDINATE FINAL LOCATION OF SIDEWALL TRANSFER GRILLE WITH ARCHITECTURAL DRAWINGS.

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MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

BID SET

DATE: 08/19/26
PROJ NO: 25-138

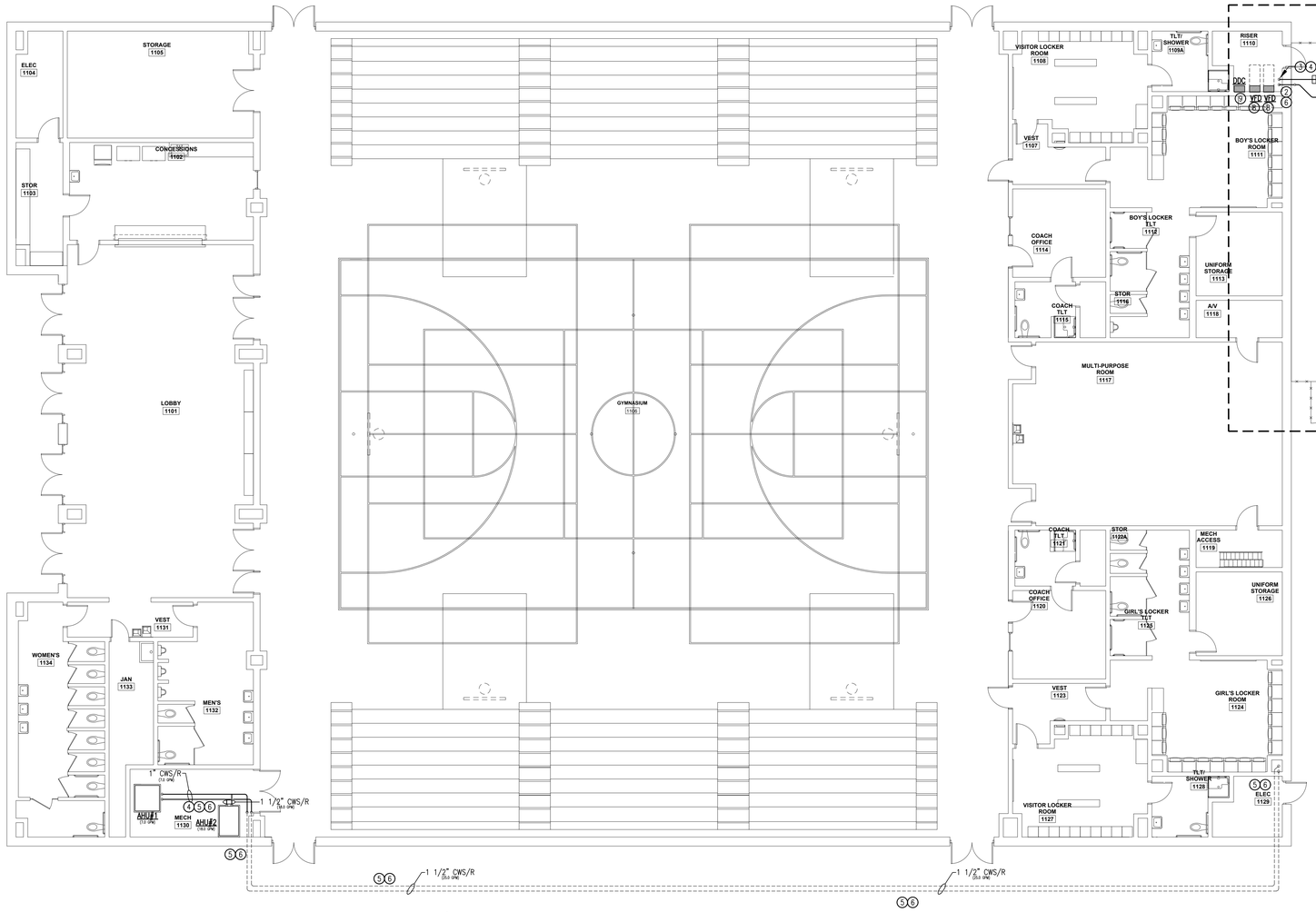
REVISIONS

#	DESC	DATE
1	DCM COMMENTS	8-05-26

HVAC PLAN

M101

BIDS: M:\Jobs_Active\2025\ Mary G Montgomery Gymnasium\25138\M101.dwg 08/05/26 15:44

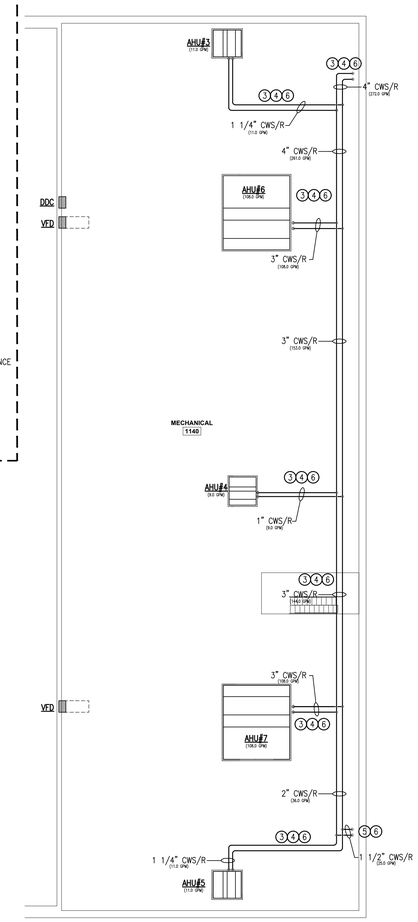


1 HVAC PIPING PLAN

1/8" = 1'-0"

N

0" 4'-0" 8'-0" 16'-0" 32'-0"



2 MEZZANINE HVAC PIPING PLAN

1/8" = 1'-0"

N

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

HVAC PIPING PLAN KEY NOTES

1. AIR COOLED WATER CHILLER TO BE INSTALLED IN MECHANICAL YARD ON A 6-INCH THICK CONCRETE HOUSEKEEPING PAD THAT IS 2 INCHES LARGER THAN UNIT IN ALL DIRECTIONS. CHILLED WATER PIPING SHALL BE INSTALLED WITH CHILLER. REFERENCE ELECTRICAL PLANS FOR POWER REQUIREMENTS.
2. CHILLED WATER PIPING SHALL BE EXTENDED FROM CHILLER AS INDICATED. ROUTE PIPING ON PIPE SUPPORT STANDS AS INDICATED TO PENETRATE RISER ROOM WALL AND WITH OFFSETS TO AVOID INTERFERENCES. ALL PIPING EXTERIOR OF THE BUILDING SHALL HAVE HEAT TRACE. REFERENCE ELECTRICAL PLANS FOR POWER REQUIREMENTS.
3. CHILLED WATER PIPING SHALL TURN UP IN RISER ROOM TO PENETRATE INTO MECHANICAL MEZZANINE. PIPING SHALL BE ROUTED HIGH AS POSSIBLE.
4. CHILLED WATER PIPING SHALL BE ROUTED HIGH WITH BRANCH PIPING TO TURN DOWN FOR CONNECTION TO DESIGNATED AIR HANDLING UNITS. ROUTE PIPING GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS. SUPPORT PIPING EVERY 6 FEET WITH UNISTRUT PIPE SUPPORT SYSTEM.
5. CHILLED WATER BRANCH PIPING SHALL TURN DOWN THROUGH MECHANICAL MEZZANINE FLOOR INTO CHASE. PIPING SHALL BE ROUTED DOWN TO BELOW GRADE AS INDICATED. PIPING SHALL BE ROUTED OVER TO TURN UP IN MECHANICAL ROOM AND TO BE ROUTED HIGH AS POSSIBLE. EXTEND PIPING OVER TO ABOVE AIR HANDLING UNITS AND PROVIDE BRANCH PIPING CONNECTIONS. REFERENCE COIL PIPING DETAILS FOR ADDITIONAL INFORMATION.
6. CHILLED WATER PIPING SHALL BE COMPLETELY INSULATED. INCLUDE WITH PIPE INSULATION VALVES, FITTINGS, GAUGE PORTS, ETC. ALL PIPING EXTERIOR OF THE BUILDING SHALL HAVE 18 GAUGE ALUMINUM JACKET. ALL PIPING INTERIOR OF THE BUILDING SHALL HAVE AN ALL SERVICE PVC JACKET. REFERENCE SPECIFICATIONS FOR PRE-INSULATED UNDERGROUND PIPING INSULATION.
7. CHILLED WATER PUMP MOUNTED ON 6-INCH THICK CONCRETE HOUSEKEEPING PAD. EXTEND PIPING FROM PUMP GENERALLY AS INDICATED.
8. CHILLED WATER PUMP VARIABLE FREQUENCY DRIVE MOUNTED ON WALL INSIDE ADJACENT ROOM. INTERLOCK OPERATION OF DRIVE WITH CHILLER CONTROLS THROUGH LOCAL CONTROL PANEL. VARIABLE FREQUENCY DRIVE TO BE PROVIDED BY CONTROLS CONTRACTOR.
9. LOCAL DIRECT DIGITAL CONTROL PANEL. ADJUST FINAL LOCATION TO ACCOMMODATE FIELD CONDITIONS.
10. EXPANSION TANK SHALL BE MOUNTED ON SUPPORT FRAME. SUPPORT FRAME SHALL BE OF GALVANIZED ANGLE IRON STEEL. HEIGHT OF FRAME SHALL ELEVATE EXPANSION TANK 6 INCHES ABOVE CONCRETE DECK.
11. LINE SIZE AIR SEPARATOR TO BE SUPPORTED FROM BENEATH WITH 2 INCH PIPE STAND. SECURE PIPE STAND TO CONCRETE PAD.

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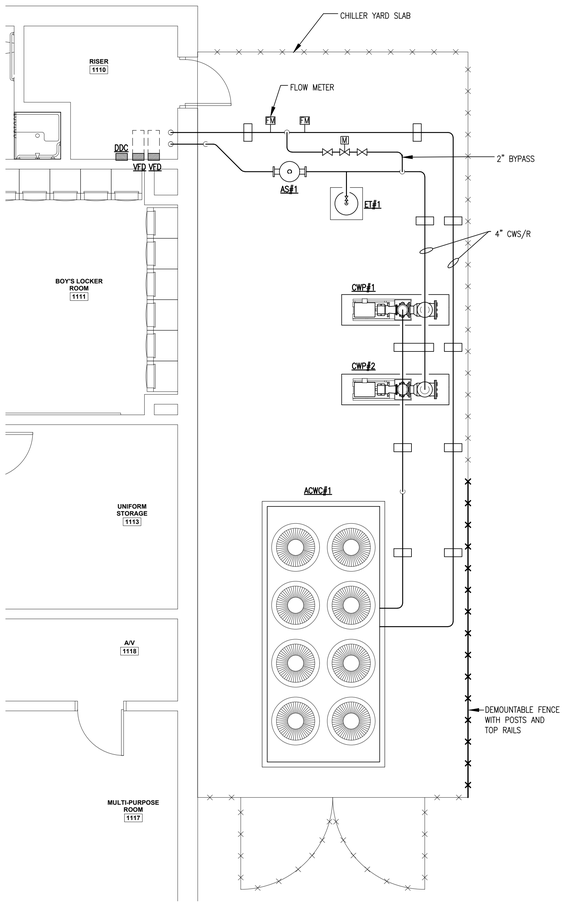
REVISIONS

#	DESC	DATE

HVAC PIPING PLAN

M102



1 ENLARGED CHILLER YARD PLAN
1/4" = 1'-0"
2'-0" 8'-0"
0" 4'-0" 16'-0"
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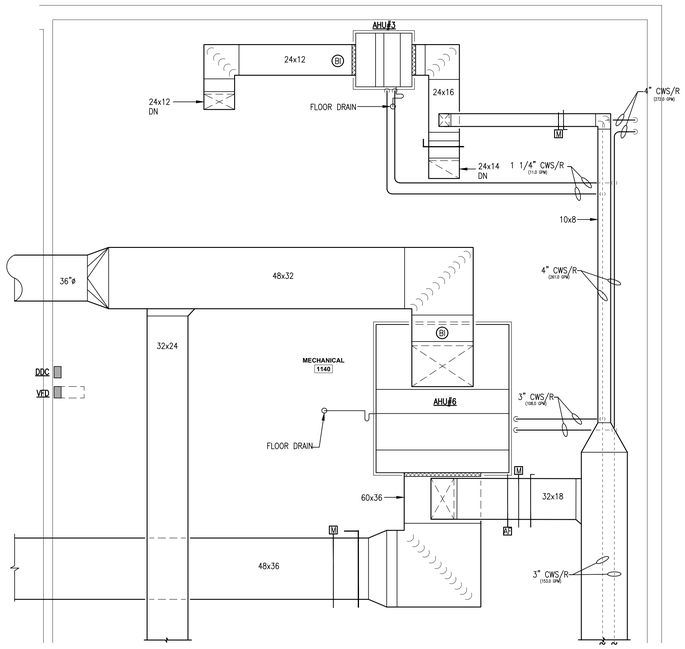

2 ENLARGED PARTIAL MECHANICAL MEZZANINE PLAN
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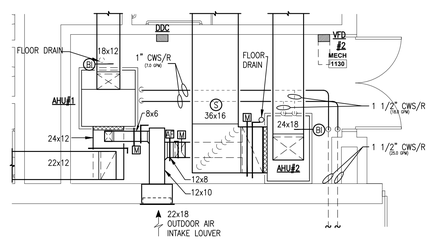

3 ENLARGED MECHANICAL ROOM (1130) PLAN
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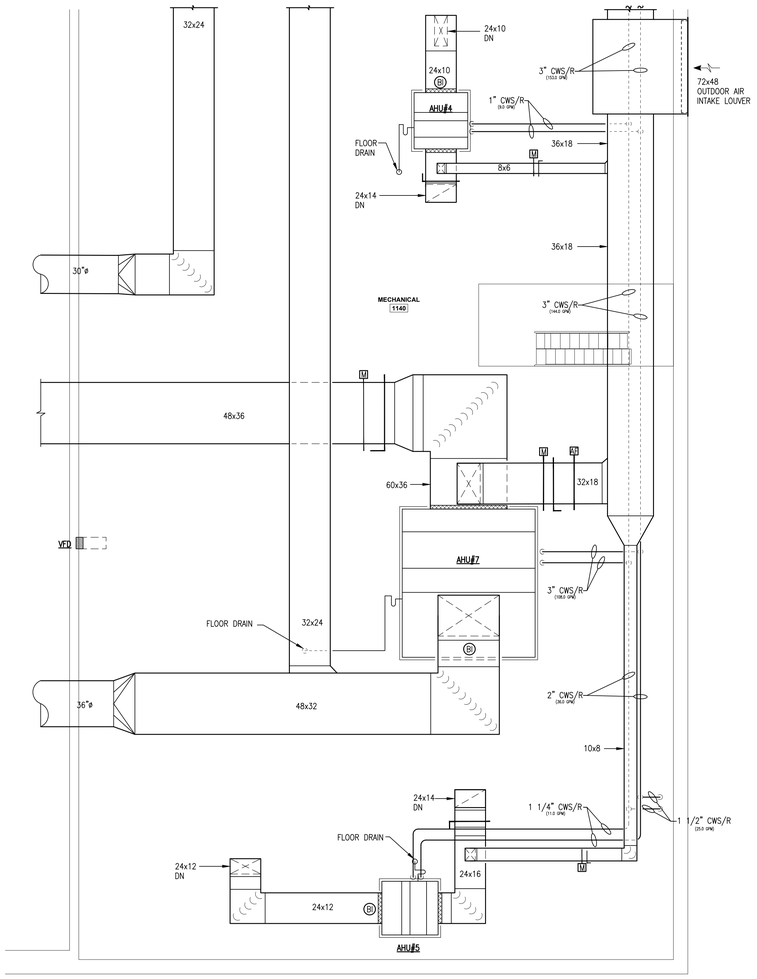

4 ENLARGED PARTIAL MECHANICAL MEZZANINE PLAN
1/4" = 1'-0"
2'-0" 8'-0"
0" 4'-0" 16'-0"
N

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REVISIONS

#	DESC	DATE

ENLARGED HVAC DETAILS

M201

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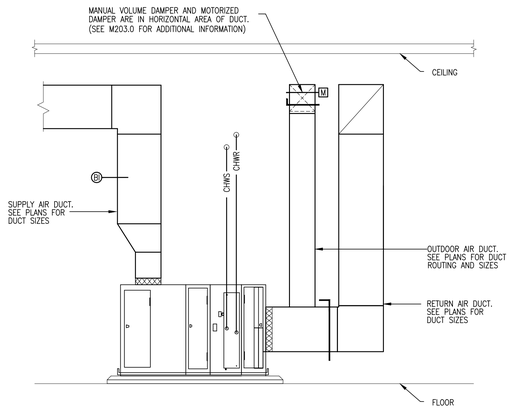
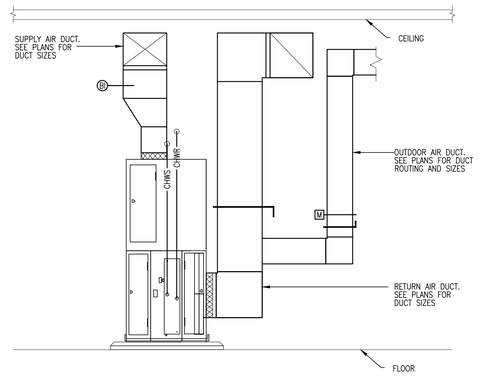


AHU#1 DETAIL

NOT TO SCALE

NOTE: REFERENCE TYPICAL AIR HANDLING UNIT DETAILS FOR ADDITIONAL INFORMATION.



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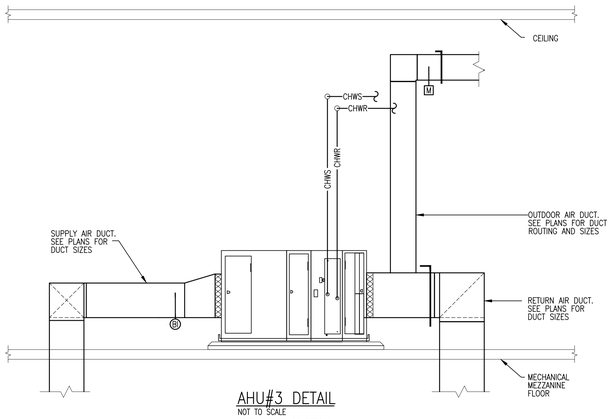
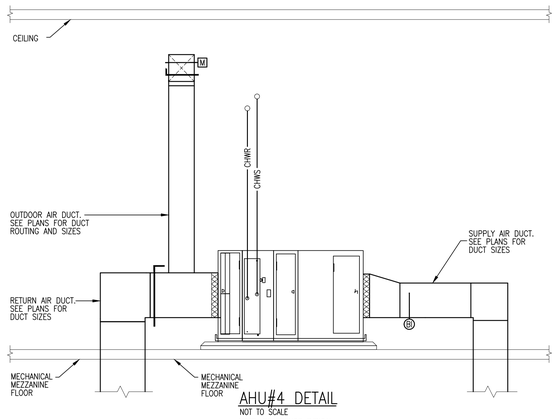
NOTE: REFERENCE TYPICAL AIR HANDLING UNIT DETAILS FOR ADDITIONAL INFORMATION.



AHU#3 DETAIL

NOT TO SCALE

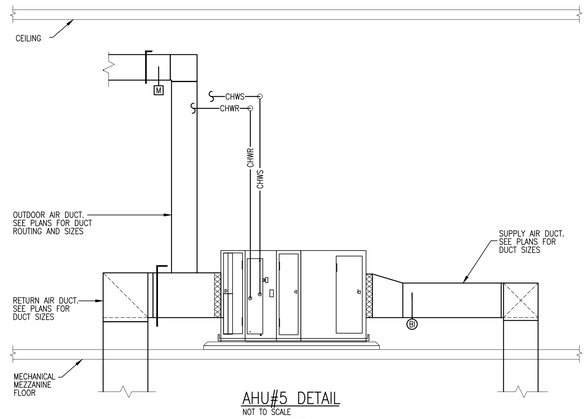
NOTE: REFERENCE TYPICAL AIR HANDLING UNIT DETAILS FOR ADDITIONAL INFORMATION.



AHU#4 DETAIL

NOT TO SCALE

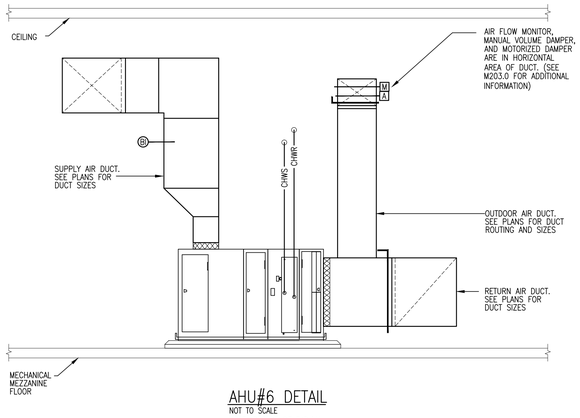
NOTE: REFERENCE TYPICAL AIR HANDLING UNIT DETAILS FOR ADDITIONAL INFORMATION.



AHU#5 DETAIL

NOT TO SCALE

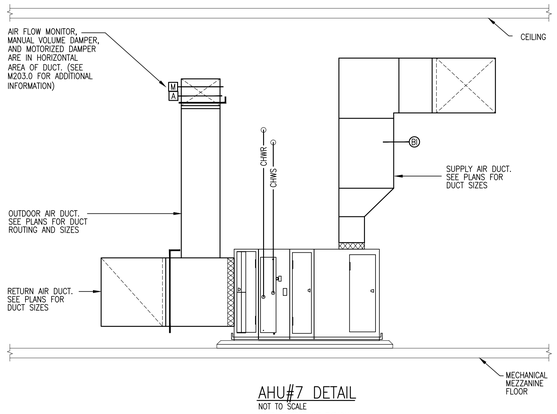
NOTE: REFERENCE TYPICAL AIR HANDLING UNIT DETAILS FOR ADDITIONAL INFORMATION.



AHU#6 DETAIL

NOT TO SCALE

NOTE: REFERENCE TYPICAL AIR HANDLING UNIT DETAILS FOR ADDITIONAL INFORMATION.



AHU#7 DETAIL

NOT TO SCALE

NOTE: REFERENCE TYPICAL AIR HANDLING UNIT DETAILS FOR ADDITIONAL INFORMATION.

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4275 SNOW RD N, SEMMES, AL 36575

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE

HVAC DETAILS

M202

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET
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MOBILE, ALABAMA 36603
PHONE: (251)690-7446

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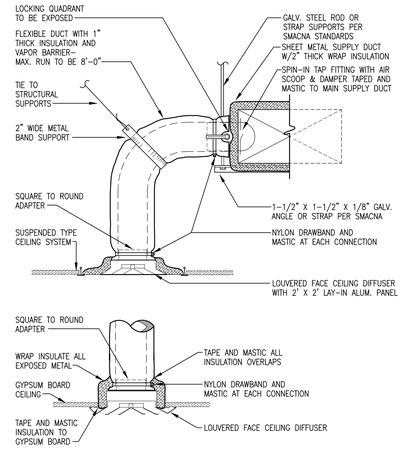
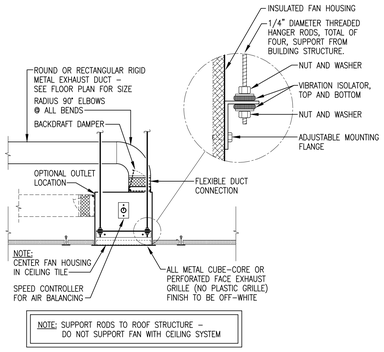
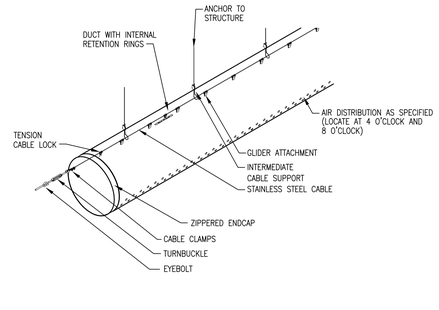


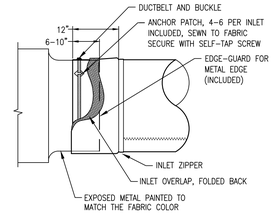
TYPICAL CEILING DIFFUSER DETAIL
NOT TO SCALE



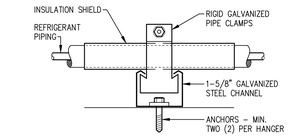
TYPICAL EXHAUST FAN DETAIL
NOT TO SCALE



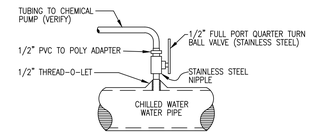
HORIZONTAL FABRIC DUCT SUSPENSION DETAILS
NOT TO SCALE



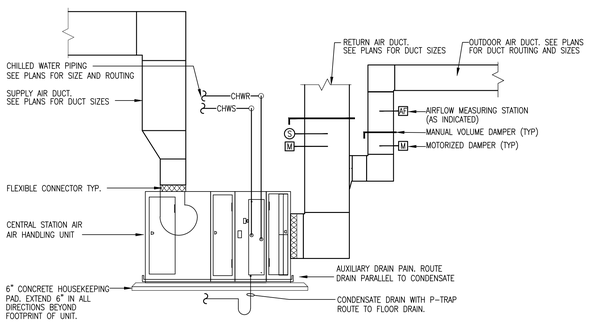
FABRIC DUCT INLET ATTACHMENT DETAIL
NOT TO SCALE



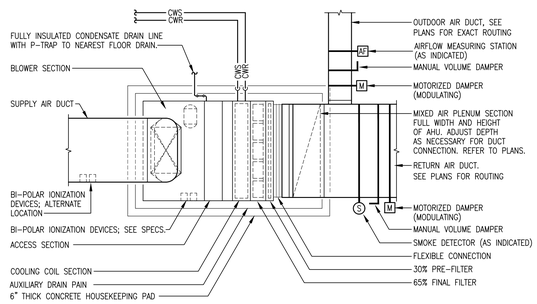
REFRIGERANT/CONDENSATE PIPE SUPPORT DETAIL
NOT TO SCALE



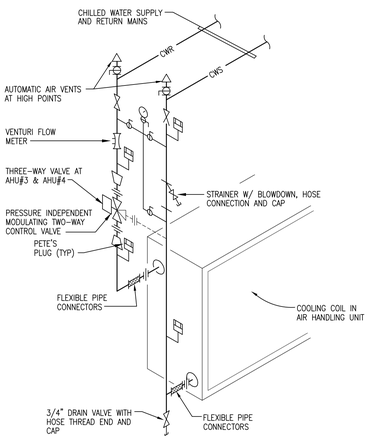
TYPICAL CHEMICAL FEED CONNECTION
NOT TO SCALE



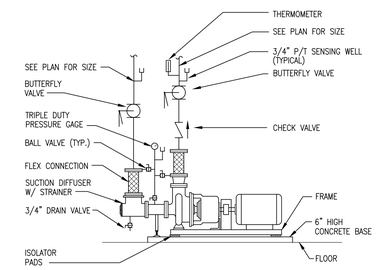
TYPICAL AIR HANDLING UNIT ELEVATION (SINGLE–ZONE VAV SYSTEM)
NOT TO SCALE



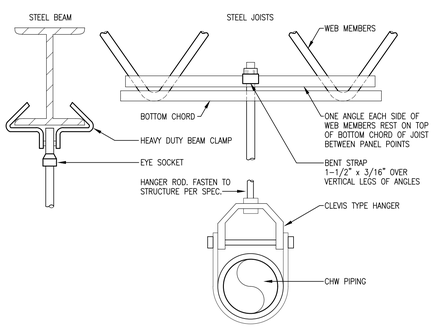
TYPICAL AIR HANDLING UNIT (SINGLE–ZONE VAV SYSTEM) DETAIL
NOT TO SCALE (SCHEMATIC)



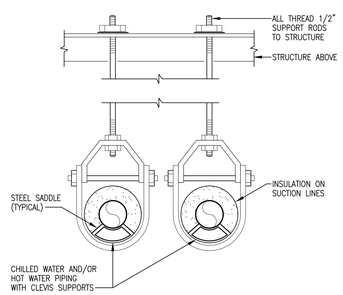
AHU CHILLED WATER COIL DETAIL
NOT TO SCALE



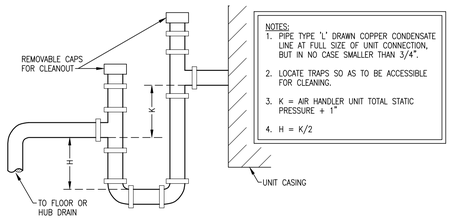
TYPICAL END SUCTION PUMP DETAIL
NOT TO SCALE



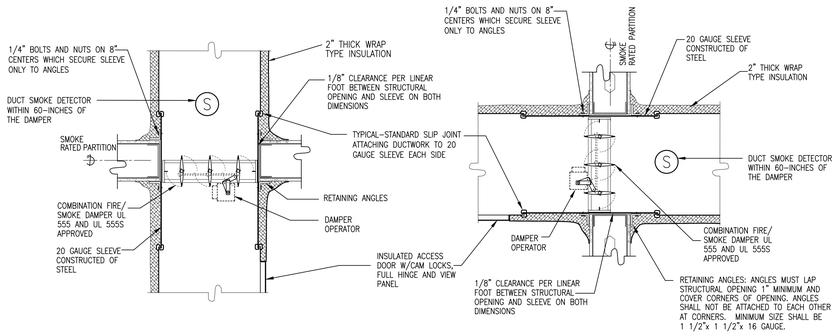
TYPICAL OVERHEAD PIPE SUPPORT DETAIL
NOT TO SCALE



TYPICAL SUSPENDED PIPE SUPPORT DETAIL
NOT TO SCALE



TYPICAL NEGATIVE PRESSURE CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE



TYPICAL SMOKE DAMPER DETAILS
NOT TO SCALE

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BID SET

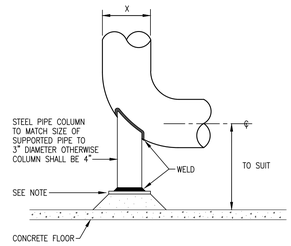
DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE
1	DCM COMMENTS	8-05-26

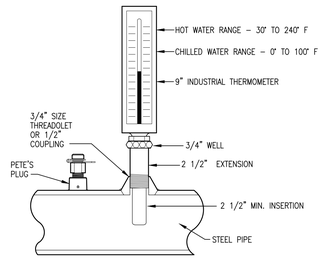
HVAC DETAILS

M203

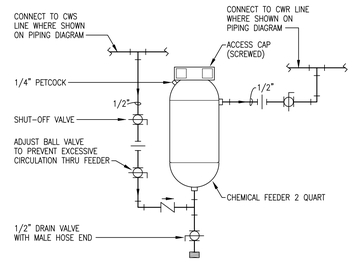


NOTES:
1. PROVIDE 3/4" PLATE FOR PIPE SIZES 3" AND LARGER
2. PROVIDE 1/2" PLATE FOR PIPE SIZES UNDER 3"
3. TYPICAL AT EQUIPMENT-PIPING DISTRIBUTION-PIPING ELBOWS

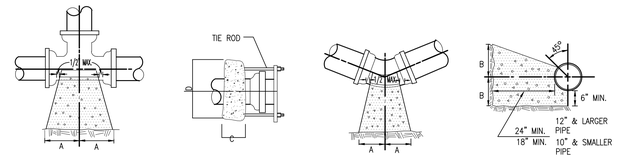
FLOOR MOUNTED PIPE SUPPORT DETAIL
NOT TO SCALE



TYPICAL THERMOMETER DETAIL
NOT TO SCALE



CHEMICAL FEEDER DETAIL
NOT TO SCALE



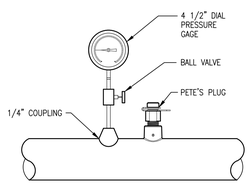
THRUST BLOCK FOR TEES			
SIZE	TEE		CU. FT. CONC.
	A	B	
4"	8"	8"	2.00
6"	10"	12"	3.75
8"	13"	16"	6.50

THRUST BLOCK FOR PLUGS			
SIZE	PLUG		CU. FT. CONC.
	C	D	
4"	8"	8"	2.00
6"	10"	12"	3.75
8"	13"	16"	6.50

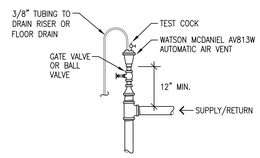
THRUST BLOCK FOR BENDS												
SIZE	90° BENDS		CU. FT. CONC.	45° BENDS		CU. FT. CONC.	22 1/2°BENDS		CU. FT. CONC.	11 1/4°BENDS		CU. FT. CONC.
	A	B		A	B		A	B		A	B	
4"	8"	8"	2.00	7"	8"	1.75	7"	8"	1.75	7"	8"	1.75
6"	11"	16"	5.50	8"	9"	2.25	7"	8"	1.75	7"	8"	1.75
8"	16"	18"	9.00	12"	14"	5.25	8"	9"	2.25	7"	8"	1.75

NOTES:
1. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
2. THESE TABLES SHOW MINIMUM SIZES FOR THRUST BLOCKS IN GOOD SOIL. (A-1 THRU A-3, CLEAN SANDS AND GRAVELS)
3. POOR SOILS A-4 THRU A-8, SILTY SOILS, CLAYS, MUCK AND PEAT WILL REQUIRE LARGER THRUST BLOCKING.
4. BOTH CONCRETE THRUST BLOCKS AND TIE RODS MUST BE USED WHEN, IN THE JUDGEMENT OF THE ENGINEER, THE NATURE AND CRITICALITY OF AN INSTALLATION IS SUCH AS TO REQUIRE POSITIVE ASSURANCE OF STABILITY.
5. THE USE OF THRUST BLOCKS SHALL BE LIMITED TO SITUATIONS SUCH AS POINT REPAIR WHERE EXPOSING SEVERAL JOINTS OF PIPE IS NOT FEASIBLE DUE TO EXISTING GROUND CONDITIONS.
6. CONCRETE COLLARS WITH TIE RODS MAY BE USED ON DEAD END LINES AT THE CONTRACTOR'S DISCRETION.

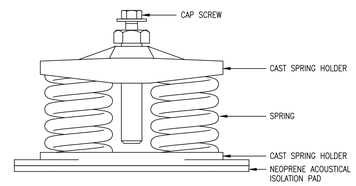
THRUST BLOCK SIZE CHART DETAIL
NOT TO SCALE



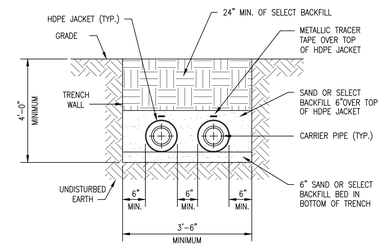
TYPICAL PRESSURE GAGE DETAIL
NOT TO SCALE



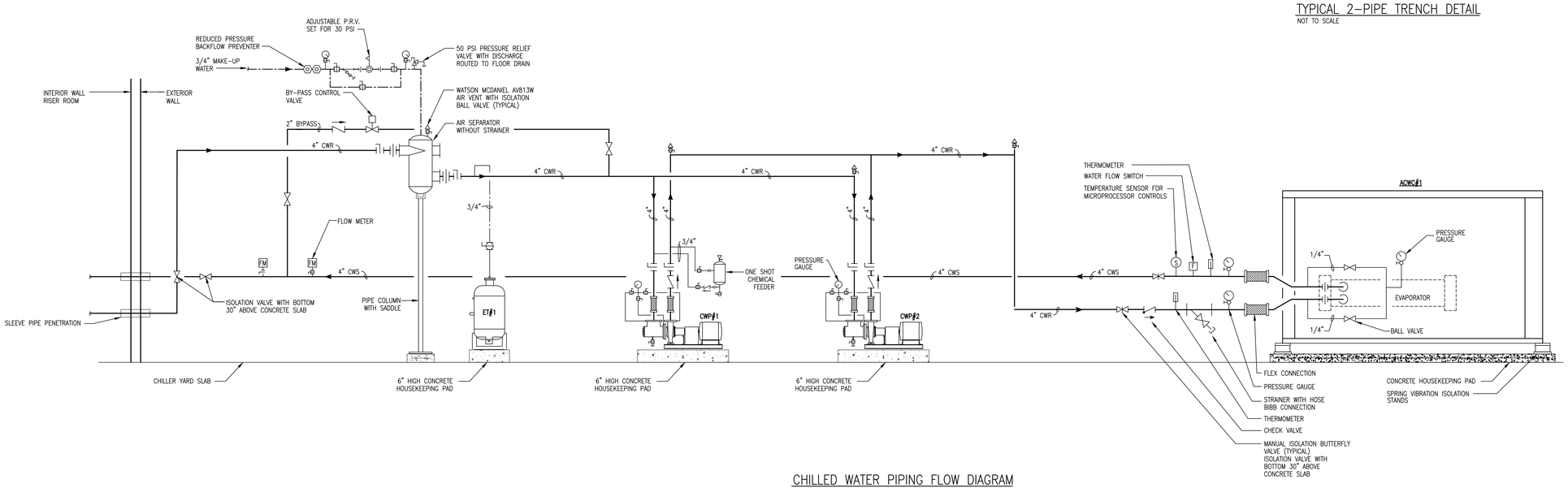
TYPICAL AUTOMATIC AIR VENT DETAIL
NO SCALE



TYPICAL SPRING VIBRATION ISOLATION STAND DETAIL
NO SCALE



TYPICAL 2-PIPE TRENCH DETAIL
NOT TO SCALE



CHILLED WATER PIPING FLOW DIAGRAM
NOT TO SCALE

CONCRETE PAD BELOW WATER CHILLERS IS TO BE REINFORCED WITH #4 REBAR SPACED 16" OCEW. ANCHOR BOLT SIZES AND LOCATIONS ARE PER APPROVED CHILLER SHOP DRAWINGS.

MECHANICAL YARD SLAB TO BE 6" THICK CONCRETE REINFORCED WITH 6x6 NO. 10/10 WWM.

NOTES:
1. PROVIDE HEAT TRACE OF 5 WATTS/FOOT FOR ALL PIPING EXTERIOR OF BUILDING.
2. PROVIDE 24 GAUGE STAINLESS STEEL JACKET OVER INSULATION AND HEAT TRACE ALL PIPING EXTERIOR OF THE BUILDING.
3. ALL UNDERGROUND CHILLED WATER PIPING SHALL BE MANUFACTURED PRE-INSULATED PIPING.
4. WHERE DISSIMILAR METALS/PIPING ARE TO BE JOINED, A DIELECTRIC UNION SHALL BE PROVIDED.
5. STRAINER NOT REQUIRED IF PROVIDED INTEGRAL WITH CHILLER. COORDINATE WITH CHILLER MANUFACTURER.
6. PROVIDE TRACER WIRE OR TERRA-TAPE ABOVE UNDERGROUND PIPING. SEE "TYPICAL TRENCH SECTION DETAIL".
7. HEAT TRACING SHALL BE PROVIDED WITH AUTOMATIC CONTROLS TO SHUT OFF HEAT TRACING SYSTEM WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F, OR WHEN THE CONDITIONS OF THE PROTECTED FLUID WILL PREVENT FREEZING.

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MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

ALABAMA LICENSED No. 14848 PROFESSIONAL ENGINEER RICHARD M. YONGE III 08/19/26

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS		
#	DESC	DATE

HVAC DETAILS

M204

ADSK: M:\Jobs_Active\2025\ Mary G Montgomery Gymnasium\25138HVAC01.dwg 08/19/26 9:46

CHILLED WATER AIR HANDLING UNIT SCHEDULE

MARK	AREA SERVED	AIRSIDE DATA 1						2	COOLING CAPACITY						CHILLED WATER COIL DATA				FILTER TYPE	HEATING CAPACITY (PREHEAT)						MAX. VELOCITY (FPM)			ELECTRICAL DATA			REMARKS
		NOMINAL CFM	MIN. CFM	OA CFM	ESP (in. w.g.)	TSP (in. w.g.)	MOTOR HP	FAN TYPE	EDB °F	EWB °F	LDB °F	LWB °F	TOTAL MBH	SENSIBLE MBH	ENT °F	LVG °F	GPM	MAX WPD		CFM	EDB °F	LDB °F	HEAT STEPS	KW PER STEP	TOTAL KW	COOLING COIL	OUTLET	FILTER	VOLTS	Hz	PHASE	
AHU#1	CONCESSION/ STORAGE	1,100	330	100	0.5	1.0	0.75	AF	80.0	67.0	54.8	54.0	45	30	44	56	7	10'	30% PRE 60% FINAL	550	65	95	1	7.20	7.20	550	2000	550	460	60	3	CV-SZ HDT 3 4 5 8 9 10 11 12 13 15 16 17 18 20
AHU#2	LOBBY/ RESTROOMS	2,650	795	280	1.0	1.5	3	AF	80.0	67.0	54.8	54.0	107	74	44	56	18	10'	30% PRE 60% FINAL	1,325	65	95	1	14.4	14.4	550	2000	550	460	60	3	VAV-SZ VDT 3 4 5 8 9 10 11 12 13 15 16 17 18 20
AHU#3	BOYS/VISITORS LOCKEROOMS	1,675	490	185	0.5	1.0	1.5	AF	80.0	67.0	54.8	54.0	66	46	44	56	11	10'	30% PRE 60% FINAL	815	65	95	1	7.20	7.20	550	2000	550	460	60	3	CV-SZ HDT 3 4 5 8 9 10 11 12 13 15 16 17 18 20
AHU#4	MULTI-PURPOSE ROOM	1,350	330	180	0.5	1.0	1.5	AF	80.0	67.0	54.8	54.0	55	38	44	56	9	10'	30% PRE 60% FINAL	550	65	95	1	7.20	7.20	550	2000	550	460	60	3	CV-SZ HDT 3 4 5 8 9 10 11 12 13 15 16 17 18 20
AHU#5	GIRLS/VISITORS LOCKEROOMS	1,675	490	185	0.5	1.0	1.5	AF	80.0	67.0	54.8	54.0	66	46	44	56	11	10'	30% PRE 60% FINAL	815	65	95	1	7.20	7.20	550	2000	550	460	60	3	CV-SZ HDT 3 4 5 8 9 10 11 12 13 15 16 17 18 20
AHU#6	GYMNASIUM	16,000	4,800	1,500 / 3,000	2.0	3.5	15	AF	80.0	67.0	54.8	54.0	648	449	44	56	108	10'	30% PRE 60% FINAL	8000	65	95	4	16.0	72.0	550	2000	550	460	60	3	VAV-SZ HDT 3 4 5 7 8 9 10 11 12 13 15 16 17 18 19
AHU#7	GYMNASIUM	16,000	4,800	1,500 / 3,000	2.0	3.5	15	AF	80.0	67.0	54.8	54.0	648	449	44	56	108	10'	30% PRE 60% FINAL	8000	65	95	4	16.0	72.0	550	2000	550	460	60	3	VAV-SZ HDT 3 4 5 7 8 9 10 11 12 13 15 16 17 18 19

NOTES:

1. EXTERNAL STATIC PRESSURE INDICATED DOES NOT INCLUDE PRESSURE DROP THRU CASING, COILS, FILTERS, OR ELECTRIC HEATER.
2. AF – AIRFOIL
3. MZ – MULTI ZONE, SZ – SINGLE ZONE
4. HDT – HORIZONTAL DRAW-THRU, VDT – VERTICAL DRAW THRU
5. CV – CONSTANT VOLUME, VAV – VARIABLE AIR VOLUME
6. PROVIDE WITH DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY AND RETURN AIR DUCTS. INSTALLATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS. DETECTORS SHALL BE PROVIDED BY DIVISION 16 AND INSTALLED BY DIVISION 15.
7. PROVIDE WITH VARIABLE FREQUENCY DRIVE. VFD SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
8. TRAP CONDENSATE AT UNIT AND ROUTE FULLY INSULATED CONDENSATE DRAIN LINE TO FLOOR DRAIN. SEE CONDENSATE DRAIN DETAIL. PROVIDE PADS, BASE RAILS, AND/OR CURBS OF SUFFICIENT HEIGHT TO ENABLE CORRECT TRAP DEPTH. COORDINATE FLOOR DRAIN LOCATIONS WITH PLUMBING CONTRACTOR.
9. PROVIDE WITH STAINLESS STEEL IAQ DRAIN PAN SLOPED IN TWO DIRECTIONS.
10. PROVIDE EXTENDED LUBE LINES TO OUTSIDE OF UNIT CASING ON THE SIDE WHICH IS ACCESSIBLE FOR SERVICING ON ALL UNITS.
11. PROVIDE DIFFERENTIAL PRESSURE GAGE ACROSS FILTERS FOR BOTH PRE AND FINAL FILTERS.
12. AIR HANDLER FAN SHALL BE INTERLOCKED TO SHUT DOWN UPON AN INDICATION OF ALARM BY THE BUILDING FIRE ALARM SYSTEM. SEE SEQUENCE OF OPERATION.
13. CONTROL VALVE Cv TO BE CALCULATED AT THE SCHEDULED WATER FLOW WITH A VALVE AUTHORITY OF 0.5 AS SELECTED BY CONTROLS SUB-CONTACTOR.
14. PROVIDE AIRFLOW MEASURING STATION IN OUTDOOR AIR INTAKE DUCT.
15. PROVIDE WITH FREEZESTAT TO SHUT UNIT DOWN UPON SENSING 35°F MIXED AIR TEMPERATURE.
16. PROVIDE A MODULATING MOTORIZED DAMPER AND MANUAL VOLUME DAMPER IN OUTDOOR AIR INTAKE AND RETURN AIR DUCTS. MOTORIZED DAMPER IN OUTSIDE AIR DUCT SHALL BE CLOSED DURING UNOCCUPIED HOURS OF EQUIPMENT OPERATION. MOTORIZED DAMPER SHALL OPEN FULLY TO SUPPLY OUTDOOR AIR FLOW DURING OCCUPIED HOURS.
17. PROVIDE UNIT WITH BI-POLAR IONIZATION DEVICE FOR AIR PURIFICATION DEVICE.
18. OUTDOOR AIR INTAKE CFM SHALL HAVE A MINIMUM AND MAXIMUM. WHEN THE CO2 LEVELS EXCEED 800 PPM, OUTDOOR AIR INTAKE SHALL BE AT THE MAXIMUM (3,000), OTHERWISE THE OUTDOOR AIR INTAKE SHALL BE THE MINIMUM (1,500 CFM).
19. PROVIDE UNIT WITH SCR CONTROLLER.

AIR DEVICE SCHEDULE 1 2 3

MARK	CFM	MAX. NC	AIR DEVICE SIZE	DUCT CONNECTION SIZE	REMARKS (TYPE)
0–75	0–75	25	6"x6"	6"ø	CD
76–150	76–150	25	9"x6"	7"ø	CD
151–200	151–200	25	9"x9"	8"ø	CD
201–300	201–300	25	9"x9"	9"ø	CD
301–400	301–400	25	9"x12"	10"ø	CD
---	---	---	---	---	---
0–150	0–150	25	8"x8"	SEE PLANS	RAR/TG
151–450	151–450	25	12"x12"	SEE PLANS	RAR/TG
451–600	451–600	25	14"x14"	SEE PLANS	RAR/TG
601–1000	601–1000	25	18"x18"	SEE PLANS	RAR/TG
1001–2000	1001–2000	25	24"x24"	SEE PLANS	RAR/TG
---	---	---	---	---	---
0–400	0–400	25	18"x10"	SEE PLANS	SWRR/SWTG

NOTES:

1. PROVIDE 24"X24" PANEL FOR ALL AIR DEVICES IN LAY-IN CEILING.
2. PROVIDE DUCT CONNECTION SIZE SHOWN UNLESS OTHERWISE NOTED ON PLANS.
3. AIR DEVICE SIZES SHOWN ON PLANS TAKE PRECEDENCE OVER THIS SCHEDULE.

MECHANICAL LEGEND

ACWC	AIR COOLED WATER CHILLER
AHU	AIR HANDLING UNIT
AF	AIR FLOW MONITOR
AS	AIR SEPARATOR
CB	COUNTER BALANCE DAMPER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CWP	CHILLED WATER PUMP
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DDC	DIRECT DIGITAL CONTROL
EAL	EXHAUST AIR LOUVER
EF	EXHAUST FAN
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FD	FLOOR DRAIN
GPM	GALLONS PER MINUTE
MVD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
OAIL	OUTSIDE AIR INTAKE LOUVER
RA	RETURN AIR
RAR	RETURN AIR REGISTER
SA	SUPPLY AIR
SWR	SIDEWALL SUPPLY REGISTER
SWRR	SIDEWALL RETURN REGISTER
TG	TRANSFER GRILLE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
	CEILING DIFFUSER WITH THROW INDICATION
	EXHAUST/RETURN AIR DEVICE
	FLEXIBLE DUCT
W X H	DUCTWORK (DIMENSIONS: WIDTH X HEIGHT)
W X H	FLEX DUCT TAKE-OFF WITH AIR-SCOOP, SPIN-IN TAP AND BALANCING DAMPER
	ELBOW WITH TURNING VANES
	BULLHEAD TEE WITH TURNING VANES AND SPLITTER DAMPER
	45° SHOE-FITTING TAKE-OFF
	DUCT CONNECTION OVER AIR DEVICE
	RETURN AIR DUCT IN SECTION
	SUPPLY AIR DUCT IN SECTION
S	SMOKE DETECTOR
BI	BI-POLAR IONIZATION
M	MOTORIZED DAMPER
T #	THERMOSTAT WITH EQUIPMENT # SERVED MOUNT 48" A.F.F.
	5/8" DOOR UNDERCUT
	MANUAL VOLUME DAMPER
	ELBOW TURN UP; ARROW INDICATES FLOW DIRECTION
	ELBOW TURN DOWN; ARROW INDICATES FLOW DIRECTION
	TOP CONNECTION
	BOTTOM CONNECTION
FS	WATER FLOW SWITCH
	GATE VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	THERMOMETER
	P/T (PRESSURE/TEMPERATURE) TEST PLUG W/ EXTENDED NECK AND CAP
	UNION
	PRESSURE GAGE W/ COCK
	FLEX CONNECTION
	STRAINER W/ BLOW DOWN GATE VALVE FULL SIZE OF STRAINER 3/4" HOSE END CONNECTION WITH CAP.
	AUTOMATIC ISOLATION 2-WAY VALVE
	3-WAY CONTROL VALVE

FAN SCHEDULE

MARK	TOTAL CFM	TSP IN WC	MAX RPM	TYPE DRIVE	TYPE FAN	CONTROL	INTERLOCK WITH	MOTOR HP/WATTS	MAX SONES	ELECTRICAL DATA			FAN SERVICE	REMARKS
										VOLTS	Hz	PHASE		
EF#1	50	0.25	455	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	30 W	2.0	115	60	1	JAN. 1133	1 2 3 4 5
EF#2	400	0.25	850	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	45 W	0.3	115	60	1	WOMEN'S 1134	1 2 3 4 5
EF#3	250	0.25	1,040	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	36 W	0.7	115	60	1	MEN'S 1132	1 2 3 4 5
EF#4	75	0.25	950	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	20 W	0.3	115	60	1	VISITOR LOCKER ROOM 1108	1 2 3 4 5
EF#5	75	0.25	950	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	20 W	0.3	115	60	1	TLT/SHOWER 1109A	1 2 3 4 5
EF#6	75	0.30	950	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	20 W	0.3	115	60	1	COACH TLT 1115	1 2 3 4 5
EF#7	300	0.25	1,152	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	53 W	1.3	115	60	1	BOY'S LOCKER TLT 1112	1 2 3 4 5
EF#8	75	0.30	950	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	20 W	0.3	115	60	1	COACH TLT 1121	1 2 3 4 5
EF#9	300	0.25	1,152	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	53 W	1.3	115	60	1	GIRL'S LOCKER TLT 1125	1 2 3 4 5
EF#10	75	0.25	950	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	20 W	0.3	115	60	1	TLT/SHOWER 1128	1 2 3 4 5
EF#11	75	0.25	950	DIRECT	CEILING MOUNTED	CONT.	LIGHT SWITCH	20 W	0.3	115	60	1	VISITOR LOCKER ROOM 1127	1 2 3 4 5

NOTES:

1. PROVIDE WITH FAN SPEED CONTROLLER, CONTROLLER SHALL BE MOUNTED TO FAN.
2. PROVIDE WITH ALUMINUM GRILLE. PLASTIC GRILLES SHALL NOT BE ACCEPTABLE
3. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
4. PROVIDE WITH INTEGRAL DISCONNECT.
5. PROVIDE WITH THERMAL OVERLOAD.

AIR COOLED WATER CHILLER SCHEDULE

MARK	CAPACITY TONS (NOMINAL)	GPM	WATER TEMP.		AMBIENT TEMP.		EVAPORATOR	COMPRESSOR		COND. FANS		ELECTRICAL DATA					MIN. EER	MIN. IPLV	REMARKS
			ENT °F	LVG °F	MAX. °F	MIN. °F	MAX. WPD	NO.	RLA (EA)	NO.	FLA (EA)	VOLTS	Hz	PHASE	MCA	MOCP			
ACWC#1	120	225	56	44	95	10	8.0 FT.HD.	4	50.6	8	3.30	460	60	3	244	300	10.1	16.06	1 2 3 4

NOTES:

1. PROVIDE 120V/60HZ/1PH POWER FOR CONTROLS CIRCUIT. PROVIDE WITH FACTORY INSTALLED FREEZE PROTECTION FOR EVAPORATOR SECTION.
2. PROVIDE SINGLE POINT POWER CONNECTION.
3. PROVIDE AS A SINGLE POINT OF CONNECTION WITH HACR RATED BREAKER.
4. BASIS OF DESIGN – CARRIER 30RC

EXPANSION TANK SCHEDULE

MARK ET#	TANK SERVICE	TANK VOLUME GALLONS	ACCEPTANCE VOLUME GALLONS	TANK MOUNTING	TANK TYPE	INITIAL PRESSURE CHARGE	REMARKS
1	CHILLED WATER	25	25	SUPPORT FRAME	BLADDER	30 PSI	ASME STAMPED AND RATED @ 125 PSI.

CIRCULATING PUMP SCHEDULE

MARK	CAPACITY GPM	TDH FEET	MAX. RPM	MOTOR HP	TYPE PUMP	ELECTRICAL DATA			REMARKS
						VOLTS	Hz	PHASE	
CWP#1	330	50	1750	7.5	BASE MOUNTED END SUCTION	480	60	3	1 2 3
CWP#2	330	50	1750	7.5	BASE MOUNTED END SUCTION	480	60	3	1 2 3

NOTES:

1. PUMP MOTOR TO BE NEMA PREMIUM EFFICIENCY.
2. PUMP AND MOTOR SHALL BE FOR OUTDOOR APPLICATION.
3. PUMP SHALL BE CONTROLLED BY VARIABLE FREQUENCY DRIVE.

ELECTRIC UNIT HEATER SCHEDULE

MARK EUH#	CFM	HEATING CAPACITY			ELECTRICAL DATA				REMARKS
		INPUT KW	STAGES	OUTPUT BTU/HR	AMPS	VOLTS	Hz	PHASE	
1	65	3.0	1 @ 3 KW	10,200	10.8	208	60	1	1

NOTES:

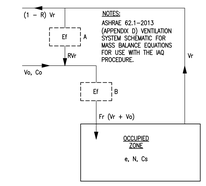
1. UNIT HEATER IS TO BE WALL MOUNTED. UNIT SHALL BE PROVIDED WITH INTEGRAL CONTROLS. PROVIDE ALL ACCESSORIES FOR INSTALLATION ON WALL.

OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
AHU#1	EDUCATIONAL	CONCESSION	295 4	5	5	0.06	25	18	0.8	53 3
		STORAGE	600 4	0	0	0.12	0	72	0.8	90 3

ZONE HEIGHT (FT)	10		AIR CHANGES/HOUR	7.4		
DESIRED OA (Vo) IAQ	100		OA PER VRP	143 CFM	VRP OA CFM/PERSON	28.6
MAX/MIN SA (Vs)	1,100		OA PER IAQ	100 CFM	IAQ OA CFM/PERSON	20.0
RETURN AIR (Vr)	1,000		OA SAVINGS	43 CFM		
RECIRC. FLOW FACTOR(R)	0.89		OA DRY BULB	95 °F		
VENT. EFF. (Ez)	0.8		OA WET BULB	80 °F		
PHYSICAL ACTIVITY	STANDING (DESK WORK)		COIL LVG. DRY BULB	55 °F		
FILTER LOCATION	B		COIL LVG. WET BULB	54 °F		
HVAC FLOW TYPE	CONSTANT					
OA FLOW TYPE	CONSTANT					

CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?
ACETALDEHYDE	PEOPLE	100	0.01112	0.00015	YES
ACETONE	PEOPLE	250	0.00167	0.00013	YES
AMMONIA	PEOPLE	25	0.01523	0.00373	YES
BENZENE	PEOPLE	1	0.00252	0.00004	YES
2-BUTANONE (MEK)	PEOPLE	200	0.00019	0.00002	YES
CARBON DIOXIDE	PEOPLE	5000	1524	1002	YES
CHLOROFORM	PEOPLE	2	0.00011	0.00002	YES
DIOXANE	PEOPLE	100	0	0	YES
HYDROGEN SULFIDE	PEOPLE	10	0	0	YES
METHANE	PEOPLE	N/A	1.68094	1.68094	YES
METHANOL	PEOPLE	200	0	0	YES
METHYLENE CHLORIDE	PEOPLE	25	0.00077	0.00003	YES
PROPANE	PEOPLE	1000	0.00998	0.00998	YES
TETRACHLOROETHANE	PEOPLE	5	0	0	YES
TETRACHLOROETHYLENE	PEOPLE	100	0.00037	0.00001	YES
TOLUENE	PEOPLE	100	0.00533	0.00007	YES
TRICHLOROETHANE	PEOPLE	350	0.00077	0.02	YES
XYLENE	PEOPLE	100	0.00230	0.00003	YES
			IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES



NOTES:
ASHRAE 62.1-2013 (APPENDIX D) VENTILATION SYSTEM SCHEMATIC FOR MASS BALANCE EQUATIONS FOR USE WITH THE IAQ PROCEDURE.

NOTES:

1. IAQ PROCEDURE IN ACCORDANCE WITH THE ENGINEERED EXCEPTION FOUND IN IMC, SECTION 403.2 AND IN ACCORDANCE WITH ASHRAE 62.1-2013, SECTION 6.1.2 & 6.3 BY UTILIZING BIPOLAR IONIZATION TECHNOLOGY.
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3. OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
4. OUTSIDE AIR IAQ CALCULATION FOR TOTAL SEATING AREA.

NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI-POLAR AIR PURIFICATION DEVICES.

NOTE: AIR PURIFICATION DEVICES SHALL BE INTERLOCKED WITH EVAPORATOR SECTION TO BE OPERATION ONLY AS EVAPORATOR SECTION IS OPERATING.

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST. 1988
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PHONE: (251)690-7446

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1606 PAUL W. BRYANT DRIVE TUSCALOOSA, ALABAMA 35401
www.wardscottmorris.com

MARY G MONTGOMERY GYM
MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE
1	DCM COMMENTS	8-05-26

HVAC SCHEDULES AND LEGEND

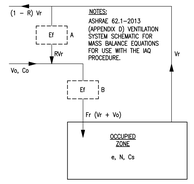
M301

OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
AHU#2	EDUCATIONAL	LOBBY	1,450 (4)	35	7.5	0.06	263	873	0.8	437 (3)

ZONE HEIGHT (FT)	10		AIR CHANGES/HOUR	11.0	
DESIRED OA (Vo) IAQ	280		OA PER VRP	437 CFM	VRP OA CFM/PERSON 12.5
MAX/MIN SA (Vs)	2,650		OA PER IAQ	280 CFM	IAQ OA CFM/PERSON 8.0
RETURN AIR (Vr)	2,370		OA SAVINGS	157 CFM	
RECIRC. FLOW FACTOR(R)	0.89		OA DRY BULB	95 °F	
VENT. EFF. (Ez)	0.8		OA WET BULB	80 °F	
PHYSICAL ACTIVITY	STANDING (DESK WORK)		COIL LVG. DRY BULB	55 °F	
FILTER LOCATION	B		COIL LVG. WET BULB	54 °F	
HVAC FLOW TYPE	CONSTANT				
OA FLOW TYPE	CONSTANT				

CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?
ACETALDEHYDE	PEOPLE	100	0.01112	0.00015	YES
ACETONE	PEOPLE	250	0.00167	0.00013	YES
AMMONIA	PEOPLE	25	0.01523	0.00373	YES
BENZENE	PEOPLE	1	0.00252	0.00004	YES
2-BUTANONE (MEK)	PEOPLE	200	0.00019	0.00002	YES
CARBON DIOXIDE	PEOPLE	5000	1361	1902	YES
CHLOROFORM	PEOPLE	2	0.00011	0.00002	YES
DIOXANE	PEOPLE	100	0	0	YES
HYDROGEN SULFIDE	PEOPLE	10	0	0	YES
METHANE	PEOPLE	N/A	1.68094	1.68094	YES
METHANOL	PEOPLE	200	0	0	YES
METHYLENE CHLORIDE	PEOPLE	25	0.00077	0.00003	YES
PROPANE	PEOPLE	1000	0.00998	0.00998	YES
TETRACHLOROETHANE	PEOPLE	5	0	0	YES
TETRACHLOROETHYLENE	PEOPLE	100	0.00037	0.00001	YES
TOLUENE	PEOPLE	100	0.00533	0.00007	YES
TRICHLOROETHANE	PEOPLE	350	0.00077	0.02	YES
XYLENE	PEOPLE	100	0.00230	0.00003	YES
			IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES



NOTES:
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3. OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
4. OUTSIDE AIR IAQ CALCULATION FOR TOTAL SEATING AREA.

NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI–POLAR AIR PURIFICATION DEVICES.

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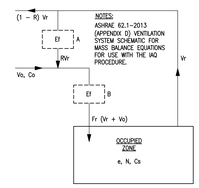
OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
AHU#3	EDUCATIONAL	OFFICE	375 (4)	2	5.0	0.06	10	32	0.8	41 (3)
		LOCKER ROOM	N/A (4)	0	0	0	0	0	0	0 (3)

ZONE HEIGHT (FT)	10		AIR CHANGES/HOUR	26.8	
DESIRED OA (Vo) IAQ	185		OA PER VRP	41 CFM	VRP OA CFM/PERSON 20.3
MAX/MIN SA (Vs)	1675		OA PER IAQ	185 CFM	IAQ OA CFM/PERSON 92.5
RETURN AIR (Vr)	1490		OA SAVINGS	–144 CFM	
RECIRC. FLOW FACTOR(R)	0.89		OA DRY BULB	95 °F	
VENT. EFF. (Ez)	0.8		OA WET BULB	80 °F	
PHYSICAL ACTIVITY	STANDING (DESK WORK)		COIL LVG. DRY BULB	55 °F	
FILTER LOCATION	B		COIL LVG. WET BULB	54 °F	
HVAC FLOW TYPE	CONSTANT				
OA FLOW TYPE	CONSTANT				

CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?
ACETALDEHYDE	PEOPLE	100	0.01112	0.00015	YES
ACETONE	PEOPLE	250	0.00167	0.00013	YES
AMMONIA	PEOPLE	25	0.01523	0.00373	YES
BENZENE	PEOPLE	1	0.00252	0.00004	YES
2-BUTANONE (MEK)	PEOPLE	200	0.00019	0.00002	YES
CARBON DIOXIDE	PEOPLE	5000	991	532	YES
CHLOROFORM	PEOPLE	2	0.00011	0.00002	YES
DIOXANE	PEOPLE	100	0	0	YES
HYDROGEN SULFIDE	PEOPLE	10	0	0	YES
METHANE	PEOPLE	N/A	1.68094	1.68094	YES
METHANOL	PEOPLE	200	0	0	YES
METHYLENE CHLORIDE	PEOPLE	25	0.00077	0.00003	YES
PROPANE	PEOPLE	1000	0.00998	0.00998	YES
TETRACHLOROETHANE	PEOPLE	5	0	0	YES
TETRACHLOROETHYLENE	PEOPLE	100	0.00037	0.00001	YES
TOLUENE	PEOPLE	100	0.00533	0.00007	YES
TRICHLOROETHANE	PEOPLE	350	0.00077	0.02	YES
XYLENE	PEOPLE	100	0.00230	0.00003	YES
			IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES



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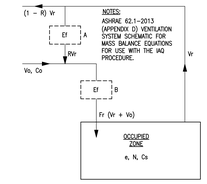
OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
AHU#4	EDUCATIONAL	CLASSROOM (9+)	1,035 (4)	36	10.0	0.12	360	124	0.8	605 (3)

ZONE HEIGHT (FT)	10		AIR CHANGES/HOUR	7.8	
DESIRED OA (Vo) IAQ	180		OA PER VRP	605 CFM	VRP OA CFM/PERSON 16.8
MAX/MIN SA (Vs)	1,350		OA PER IAQ	180 CFM	IAQ OA CFM/PERSON 5.0
RETURN AIR (Vr)	1,170		OA SAVINGS	425 CFM	
RECIRC. FLOW FACTOR(R)	0.87		OA DRY BULB	95 °F	
VENT. EFF. (Ez)	0.8		OA WET BULB	80 °F	
PHYSICAL ACTIVITY	MILD EXERCISE		COIL LVG. DRY BULB	55 °F	
FILTER LOCATION	B		COIL LVG. WET BULB	54 °F	
HVAC FLOW TYPE	CONSTANT				
OA FLOW TYPE	CONSTANT				

CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?
ACETALDEHYDE	PEOPLE	100	0.01112	0.00015	YES
ACETONE	PEOPLE	250	0.00167	0.00013	YES
AMMONIA	PEOPLE	25	0.01523	0.00373	YES
BENZENE	PEOPLE	1	0.00252	0.00004	YES
2-BUTANONE (MEK)	PEOPLE	200	0.00019	0.00002	YES
CARBON DIOXIDE	PEOPLE	5000	1173	3002	YES
CHLOROFORM	PEOPLE	2	0.00011	0.00002	YES
DIOXANE	PEOPLE	100	0	0	YES
HYDROGEN SULFIDE	PEOPLE	10	0	0	YES
METHANE	PEOPLE	N/A	1.68094	1.68094	YES
METHANOL	PEOPLE	200	0	0	YES
METHYLENE CHLORIDE	PEOPLE	25	0.00077	0.00003	YES
PROPANE	PEOPLE	1000	0.00998	0.00998	YES
TETRACHLOROETHANE	PEOPLE	5	0	0	YES
TETRACHLOROETHYLENE	PEOPLE	100	0.00037	0.00001	YES
TOLUENE	PEOPLE	100	0.00533	0.00007	YES
TRICHLOROETHANE	PEOPLE	350	0.00077	0.02	YES
XYLENE	PEOPLE	100	0.00230	0.00003	YES
			IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES



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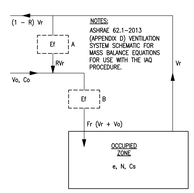
OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
AHU#5	EDUCATIONAL	OFFICE	375 (4)	2	5.0	0.06	10	32	0.8	41 (3)
		LOCKER ROOM	N/A (4)	0	0	0	0	0	0	0 (3)

ZONE HEIGHT (FT)	10		AIR CHANGES/HOUR	26.8	
DESIRED OA (Vo) IAQ	185		OA PER VRP	41 CFM	VRP OA CFM/PERSON 20.3
MAX/MIN SA (Vs)	1675		OA PER IAQ	185 CFM	IAQ OA CFM/PERSON 92.5
RETURN AIR (Vr)	1490		OA SAVINGS	–144 CFM	
RECIRC. FLOW FACTOR(R)	0.89		OA DRY BULB	95 °F	
VENT. EFF. (Ez)	0.8		OA WET BULB	80 °F	
PHYSICAL ACTIVITY	STANDING (DESK WORK)		COIL LVG. DRY BULB	55 °F	
FILTER LOCATION	B		COIL LVG. WET BULB	54 °F	
HVAC FLOW TYPE	CONSTANT				
OA FLOW TYPE	CONSTANT				

CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?
ACETALDEHYDE	PEOPLE	100	0.01112	0.00015	YES
ACETONE	PEOPLE	250	0.00167	0.00013	YES
AMMONIA	PEOPLE	25	0.01523	0.00373	YES
BENZENE	PEOPLE	1	0.00252	0.00004	YES
2-BUTANONE (MEK)	PEOPLE	200	0.00019	0.00002	YES
CARBON DIOXIDE	PEOPLE	5000	1681	3002	YES
CHLOROFORM	PEOPLE	2	0.00011	0.00002	YES
DIOXANE	PEOPLE	100	0	0	YES
HYDROGEN SULFIDE	PEOPLE	10	0	0	YES
METHANE	PEOPLE	N/A	1.68094	1.68094	YES
METHANOL	PEOPLE	200	0	0	YES
METHYLENE CHLORIDE	PEOPLE	25	0.00077	0.00003	YES
PROPANE	PEOPLE	1000	0.00998	0.00998	YES
TETRACHLOROETHANE	PEOPLE	5	0	0	YES
TETRACHLOROETHYLENE	PEOPLE	100	0.00037	0.00001	YES
TOLUENE	PEOPLE	100	0.00533	0.00007	YES
TRICHLOROETHANE	PEOPLE	350	0.00077	0.02	YES
XYLENE	PEOPLE	100	0.00230	0.00003	YES
			IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES



NOTES:
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2. ALL VALUES LISTED IN PARTS PER MILLION (PPM), UNLESS OTHERWISE NOTED.
3. OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
4. OUTSIDE AIR IAQ CALCULATION FOR TOTAL SEATING AREA.

NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI–POLAR AIR PURIFICATION DEVICES.

NOTE: AIR PURIFICATION DEVICES SHALL BE INTERLOCKED WITH EVAPORATOR SECTION TO BE OPERATION ONLY AS EVAPORATOR SECTION IS OPERATING.

OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
AHU#6	EDUCATIONAL	GYMNASIUM	6,200 (4)	600	7.5	0.06	4500	372	0.8	6,090 (3)

ZONE HEIGHT (FT)	30		AIR CHANGES/HOUR	5.2	
DESIRED OA (Vo) IAQ	3,000		OA PER VRP	6,090 CFM	VRP OA CFM/PERSON 10.2
MAX/MIN SA (Vs)	16,000		OA PER IAQ	3,000 CFM	IAQ OA CFM/PERSON 5.0
RETURN AIR (Vr)	13,000		OA SAVINGS	3,090 CFM	
RECIRC. FLOW FACTOR(R)	0.81		OA DRY BULB	95 °F	
VENT. EFF. (Ez)	0.8		OA WET BULB	80 °F	
PHYSICAL ACTIVITY	MILD EXERCISE		COIL LVG. DRY BULB	55 °F	
FILTER LOCATION	B		COIL LVG. WET BULB	54 °F	
HVAC FLOW TYPE	CONSTANT				
OA FLOW TYPE	CONSTANT				

CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?
ACETALDEHYDE	PEOPLE	100	0.01112	0.00015	YES
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2-BUTANONE (MEK)	PEOPLE	200	0.00019	0.00002	YES
CARBON DIOXIDE	PEOPLE	5000	1681	3002	YES
CHLOROFORM	PEOPLE	2	0.00011	0.00002	YES
DIOXANE	PEOPLE	100	0	0	YES
HYDROGEN SULFIDE	PEOPLE	10	0	0	YES
METHANE	PEOPLE	N/A	1.68094	1.68094	YES
METHANOL	PEOPLE	200	0	0	YES
METHYLENE CHLORIDE	PEOPLE	25	0.00077	0.00003	YES
PROPANE	PEOPLE	1000	0.00998	0.00998	YES
TETRACHLOROETHANE	PEOPLE	5	0	0	YES
TETRACHLOROETHYLENE	PEOPLE	100	0.00037	0.00001	YES
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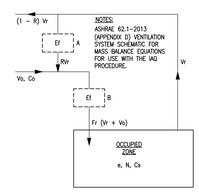
TRICHLOROETHANE	PEOPLE	350	0.00077	0.02	YES
XYLENE	PEOPLE	100	0.00230	0.00003	YES
			IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES



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OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
AHU#7	EDUCATIONAL	GYMNASIUM	6,200 (4)	600	7.5	0.06	4500	372	0.8	6,090 (3)

ZONE HEIGHT (FT)	30		AIR CHANGES/HOUR	5.2	
DESIRED OA (Vo) IAQ	3,000		OA PER VRP	6,090 CFM	VRP OA CFM/PERSON 10.2
MAX/MIN SA (Vs)	16,000		OA PER IAQ	3,000 CFM	IAQ OA CFM/PERSON 5.0
RETURN AIR (Vr)	13,000		OA SAVINGS	3,090 CFM	
RECIRC. FLOW FACTOR(R)	0.81		OA DRY BULB	95 °F	
VENT. EFF. (Ez)	0.8		OA WET BULB	80 °F	
PHYSICAL ACTIVITY	MILD EXERCISE		COIL LVG. DRY BULB	55 °F	
FILTER LOCATION	B		COIL LVG. WET BULB	54 °F	
HVAC FLOW TYPE	CONSTANT				
OA FLOW TYPE	CONSTANT				

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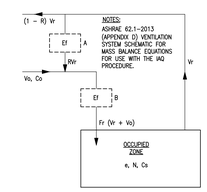

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MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE
1	DCM COMMENTS	8-05-26

HVAC SCHEDULES

M302

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PANELBOARD – SEE RESPECTIVE PANELBOARD SCHEDULE.
15	DRY-TYPE TRANSFORMER – SIZE AS INDICATED ON DRAWINGS. PROVIDE CONCRETE HOUSEKEEPING PAD. LABEL CONTAINED WITHIN SYMBOL.
A–1	BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROW INDICATES CIRCUIT HOMERUN, HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "1" INDICATES CIRCUIT BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CIRCUIT SIZE = 2#12,1#12G,1/2"C UNLESS NOTED OTHERWISE ON PANEL SCHEDULES OR DRAWINGS. PROVIDE DEDICATED NEUTRAL. SHARING OF THE NEUTRAL CONDUCTOR BETWEEN CIRCUITS IS PROHIBITED.
	INDICATES ELECTRICAL CONDUIT ROUTED UNDERGROUND/SLAB.
FP 1	MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
	POWER/DATA UTILITY POLE
	MOTOR STARTER – FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
	ELECTRIC MOTOR – SEE RESPECTIVE EQUIPMENT SCHEDULE.
	NON-FUSED DISCONNECT, HEAVY DUTY (SAFETY) SWITCH – SIZE AND TYPE AS NOTED. TOP OF SWITCH 6'–6" A.F.F. PROVIDE PHENOLIC LABEL MOUNTED ABOVE DISCONNECT.
	FUSED DISCONNECT, HEAVY DUTY (SAFETY) SWITCH – SIZE AND TYPE AS NOTED. TOP OF SWITCH 6'–6" A.F.F. PROVIDE PHENOLIC LABEL MOUNTED ABOVE DISCONNECT. FUSES SHALL MATCH SERVING BREAKER.
	20 AMP, 120 VAC, 2–POLE, 3–WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE TAMPER RESISTANT TYPE.
	20 AMP, 125 VAC, 2–POLE, 3–WIRE, GROUNDING TYPE, DOUBLE DUPLEX RECEPTACLE. FLUSH WALL 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE TAMPER RESISTANT TYPE.
	20 AMP, 120 VAC, 2–POLE, 3–WIRE, GROUND FAULT CIRCUIT INTERRUPTED TYPE DOUBLE DUPLEX RECEPTACLE FLUSH WALL–MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE TAMPER RESISTANT TYPE.
	20 AMP, 120 VAC, 2–POLE, 3–WIRE, GROUND FAULT CIRCUIT INTERRUPTED TYPE DUPLEX RECEPTACLE FLUSH WALL–MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE TAMPER RESISTANT TYPE.
TV	INDICATES DEVICE FLUSH MOUNTED 72" AFF, UNLESS OTHERWISE NOTED.
WP	INDICATES GFCI WIRING DEVICE WITH EXTRA–DUTY LISTED WEATHER–PROOF IN–USE COVER PLATE.
C	INDICATES DEVICE FLUSH MOUNTED HORIZONTALLY 6" ABOVE COUNTERTOP OR IN BACKSPLASH.
EWC	INDICATES RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT OUTLET SO THAT IT WILL BE ACCESSIBLE AND CONCEALED AFTER INSTALLATION OF WATER COOLER.
MW	INDICATES RECEPTACLE FOR MICROWAVE OVEN. COORDINATE MOUNTING LOCATION WITH CASE WORK.
REF	INDICATES RECEPTACLE FOR REFRIGERATOR. FLUSH WALL MOUNT 60" A.F.F. UNLESS NOTED OTHERWISE.
WASH	COORDINATE DEVICE LOCATION WITH WASHING MACHINE.
DRY	COORDINATE DEVICE LOCATION WITH DRYER.
	INSTALL OUTLET TO MATCH PLUG ON EQUIPMENT.
J	JUNCTION BOX LOCATION. SIZE AND TYPE AS REQUIRED.
	(2) 20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLES FLUSH MOUNTED IN FLOOR BOX WITH FLUSH FACEPLATE AND (2) DATA OUTLETS AS INDICATED ON TELECOM LEGEND. PROVIDE DEVICE MOUNTING BRACKETS FOR EACH DEVICE. FLOOR BOX EQUAL TO LEGRAND WIREMOLD RACHET–PRO RP4CTCAL. COORDINATE ALL FLOORBOX REQUIREMENTS WITH OWNER PRIOR TO ROUGH–IN.
P	POWER RELAY TO CONTROL CONTACTS FOR MECHANICAL EQUIPMENT. SEE MECHANICAL SCHEDULES AND LEGEND FOR INTERLOCK REQUIREMENTS.
	VOICE/DATA OUTLET IN A 4" SQUARE BOX WITH 1 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. STUB 3/4"C FROM BACKBOX TO 6" ABOVE ACCESSIBLE CEILING, PROVIDE CONDUIT BUSHINGS.
WAP	CEILING MOUNTED WIRELESS ACCESS POINT COMMUNICATIONS OUTLET.
FACP	ADDRESSABLE INTELLIGENT, FIRE ALARM SYSTEM CONTROL PANEL/FIRE COMMAND CENTER, FLUSH MOUNTED. FIELD VERIFY EXACT MOUNTING LOCATION.
ANN	FLUSH MOUNT, ADDRESSABLE, FIRE ALARM REMOTE ANNUNCIATOR PANEL.
MIC	FLUSH MOUNT, ADDRESSABLE, REMOTE FIRE FIGHTERS MICROPHONE.
VCC	ADDRESSABLE INTELLIGENT FIRE ALARM VOICE COMMAND CENTER.
F	FIRE ALARM SYSTEM ADDRESSABLE PULL STATION – SEMI FLUSH MOUNTED 48" A.F.F. TO TOP UNLESS NOTED OTHERWISE. PROVIDE WITH STOPPER II COVER.
F	FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE SEMI FLUSH WALL MOUNTED AT 80" A.F.F. OR 6" BELOW THE FINISHED CEILING WHICHEVER IS LOWER, UNLESS NOTED OTHERWISE. CANDELA RATING AS NOTED. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. "WP" INDICATES WEATHERPROOF DEVICE MOUNTED TO WEATHERPROOF ENCLOSURE.
F	FIRE ALARM SYSTEM VISUAL DEVICE SEMI FLUSH WALL MOUNTED AT 80" A.F.F. OR 6" BELOW THE FINISHED CEILING WHICHEVER IS LOWER, UNLESS NOTED OTHERWISE. CANDELA RATING AS NOTED. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. "WP" INDICATES WEATHERPROOF DEVICE MOUNTED TO WEATHERPROOF ENCLOSURE.
	FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE CEILING MOUNTED, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM VISUAL DEVICE CEILING MOUNTED, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE.
SD	ADDRESSABLE INTELLIGENT CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR WITH BASE.
S R	ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR COMPLETE WITH HOUSING AND AIR SAMPLING TUBES. "S" DENOTES DETECTOR IN SUPPLY DUCT; "R" DENOTES DETECTOR IN RETURN DUCT.
R	FIRE ALARM SYSTEM INTERFACE MODULE – MOUNTED AT EQUIPMENT.
H	ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM HEAT DETECTOR RATE OF RISE TYPE.
D	ELECTROMAGNETIC DOOR HOLDER INTERLOCKED WITH FIRE ALARM SYSTEM. COORDINATE LOCATION WITH THE ARCHITECT PRIOR TO ROUGH–IN.
M	ADDRESSABLE MONITOR MODULE.
F	SPRINKLER SYSTEM FLOW SWITCH. FURNISHED AND INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL VIA AN ADDRESSABLE MONITOR MODULE BY FIRE ALARM SYSTEM CONTRACTOR.
T	SPRINKLER SYSTEM TAMPER SWITCH. FURNISHED AND INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL VIA AN ADDRESSABLE MONITOR MODULE BY FIRE ALARM SYSTEM CONTRACTOR.
	GROUNDING ELECTRODE SYSTEM IAW NEC ART. 250 – 50 REBAR IN FOOTING, AND 2 – GROUND RODS AT SERVICE.

SYMBOLS NOTES:

1. ALL OUTLETS ARE TO BE FLUSH MOUNTED.
2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
4. ALL MULTI – GANG DEVICES SHALL USE A COMMON COVER PLATE
5. ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) AND THEIR COVER PLATES SHALL BE COLOR AS DETERMINED BY THE ARCHITECT UNLESS NOTED OTHERWISE.
6. A.F.G. INDICATES MOUNTING HEIGHT ABOVE FINISHED GRADE.
7. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.

LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	"LED" LIGHTING FIXTURE. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
	"LED" LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP.
	20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH – FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS: 3 – 20 AMP, 120/277 VAC THREE WAY TOGGLE SWITCH 4 – 20 AMP, 120/277 VAC FOUR WAY TOGGLE SWITCH D – 0–10V ON/OFF/DIMMING WALL SWITCH. SEE LIGHTING PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. DT – DUAL TECHNOLOGY MOTION SENSOR WALL SWITCH. WATTSTOPPER DWS–301. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. PROGRAM FOR "MANUAL ON". DT3 – MULTI–WAY DUAL TECHNOLOGY MOTION SENSOR WALL SWITCH. WATTSTOPPER DWS–301. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. PROGRAM FOR "MANUAL ON". DTD – DUAL TECHNOLOGY, 0–10V, MOTION SENSOR WALL SWITCH. WATTSTOPPER DW–311. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. PROGRAM FOR "MANUAL ON." PROVIDE ALL DIMMING WIRING AS REQUIRED. M – 30 AMP SWITCH EQUAL TO HUBBELL HBL7832D OR HBL7810D, AS REQUIRED. PROVIDE PHENOLIC LABEL. MO – LOW VOLTAGE MOMENTARY TOGGLE SWITCH EQUAL TO WATTSOPPER LVSW–100 FOR "MANUAL ON" CONTROL OF CEILING MOUNTED OCCUPANCY SENSOR. MO,D – LOW VOLTAGE MANUAL ON AND DIMMING WALL SWITCH EQUAL TO WATTSTOPPER DCLV2. SEE LIGHTING PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. PROGRAM FOR "MANUAL ON". PROVIDE ALL 0–10V WIRING AS REQUIRED. DC – LOW VOLTAGE ON/OFF/DIMMING ONE ZONE WALL SWITCH EQUAL TO WATTSTOPPER LMDM–101. SEE LIGHTING PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. PROGRAM FOR "MANUAL ON". PROVIDE CAT6 CABLING TO [DDC]. ALL CAT6 CABLING SHALL BE PRE–TERMINATED.
	"LED" EXIT LIGHT WITH BATTERY, DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
PP	POWER PACK RELAY FOR CONTROL OF LIGHTING CONTROLS, EQUAL TO WATTSTOPPER CAT# BZ–50. MOUNT DEVICE IN AN ACCESSIBLE LOCATION.
P	POWER RELAY TO INTERLOCK WITH LIGHTS OR MECHANICAL CONTROLS EQUIPMENT. COORDINATE VOLTAGE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENT INTERLOCKS.
	DUAL TECHNOLOGY CEILING–MOUNTED 360° OCCUPANCY SENSOR, WATTSTOPPER DT–300. SEE LIGHTING CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT LOCATION AS INDICATED ON PLANS. DEVICE SHALL BE PROGRAMMED FOR "AUTOMATIC ON" (UNLESS INDICATED OTHERWISE ON PLANS). PROGRAM SUCH THAT BOTH TECHNOLOGIES ARE REQUIRED TO TRIGGER LIGHTS "ON" AND EITHER TECHNOLOGY SHALL "HOLD" LIGHTS "ON". SEE PLANS FOR SENSOR LOCATIONS THAT ARE "MANUAL ON" ONLY. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. SEE MANUFACTURERS INSTRUCTIONS FOR APPROPRIATE DIP SWITCH SETTINGS.

SYMBOLS NOTES:

1. ALL DEVICES ARE TO BE FLUSH MOUNTED.
2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
4. ALL MULTI – GANG DEVICES SHALL USE A COMMON COVER PLATE
5. COLORS FOR ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) AND THEIR COVER PLATES SHALL BE DETERMINED BY THE ARCHITECT.

OVERALL ELECTRICAL GENERAL NOTES:

a. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE EXTENT OF WORK REQUIRED TO COMPLETE THE JOB PRIOR TO BIDDING.

b. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH IN AND INSTALLATION.

c. ALL PRIMARY CONDUIT SHALL BE RUN AT 48" BELOW FINISHED GRADE. ALL SECONDARY AND EXTERIOR UNDERGROUND BRANCH CIRCUIT CONDUIT(S) SHALL BE RUN 36" BELOW FINISHED GRADE.

d. IN ALL MECHANICAL ROOMS, ALL CONDUIT AND BOXES ARE TO BE SURFACE MOUNTED.

e. THE CONTRACTOR SHALL PROVIDE WEATHER PROOF / FIRE SEAL AS REQUIRED ON ALL EXTERIOR WALL PENETRATIONS.

f. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE ANY NECESSARY COMPONENTS (i.e. BOOSTER PANELS) AND MAKE ALL THE NECESSARY CONNECTIONS FROM THE NEW FIRE ALARM DEVICES AND JUNCTION BOX TO THE EXISTING FIRE ALARM CONTROL PANEL IN THE EXISTING ARCH BUILDING AND TO ENSURE A FULLY FUNCTIONAL CAMPUS WIDE SYSTEM.

g. ALL PHASING OF WORK SHALL BE SCHEDULED WITH THE OWNER AND ARCHITECT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL SCHEDULE ALL OUTAGES WITH THE OWNER AT LEAST (14) DAYS IN ADVANCE AND ANY GIVEN OUTAGE SHALL NOT BE A DURATION IN EXCESS OF (8) HOURS.

h. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND WORK WITH OTHER EXISTING/NEW UTILITIES TO AVOID CONFLICT.

i. ANY PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED PER THE NEC WITH UL LISTED FIRE STOPPING COMPOUND.

ANY PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED PER THE NEC WITH UL LISTED FIRE STOPPING COMPOUND.

CONTRACTOR SHALL PROVIDE THE OWNER WITH RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTION ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM. REFER TO ASHRAE 90.1 2019 8.7.

CONTRACTOR SHALL PROVIDE A MINIMUM OF 4 HOURS OWNER TRAINING ON THE LIGHTING CONTROL SYSTEM BY A FACTORY CERTIFIED REPRESENTATIVE.

CONTRACTOR SHALL SUBMIT AN OCCUPANCY SENSOR LAYOUT ON A FLOOR PLAN AS PART OF THE SHOP DRAWINGS.

ALL RECEPTACLES LOCATED THROUGHOUT THE GYMNASIUM SHALL BE LISTED TAMPER–RESISTANT TYPE.

SYSTEMS SYMBOL LEGEND

SYMBOL	DESCRIPTION
D2	WIRELESS SMART TV POWER AND DATA, COORDINATE ELEVATION WITH ARCHITECT PRIOR TO ANY ROUGH–IN. LOCATIONS SHOWN ON PLAN ARE APPROXIMATIONS ONLY AND SHALL NOT BE USED FOR SPECIFIC ROUGH–IN LOCATIONS. ALL ROUGH–IN LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO BEGINNING ANY WORK. SMART TV IS PROVIDED BY OTHERS, 120V POWER AND DATA IS TO BE CONNECTED BY THE ELECTRICAL CONTRACTOR. PROVIDE AND INSTALL 120V 20A RECEPTACLE AS RECOMMENDED BY THE TV MANUFACTURER. PROVIDE POWER CONNECTION TO LOCAL RECEPTACLE CIRCUIT. FIELD COORDINATE RECEPTACLE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH–IN, RECEPTACLE SHALL BE CONCEALED BEHIND TV. CONTRACTOR SHALL INSTALL D2 DATA OUTLET CONCEALED BEHIND SMART TV. FIELD COORDINATE DATA OUTLET MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH–IN.
IC	INTERCOM SYSTEM WALL MOUNTED CALL STATION. MOUNT 48" AFF.
S	WEATHER PROOFED, WALL MOUNTED, INTERCOM SYSTEM SPEAKER. MOUNT 9'–0" AFF.
S	INTERCOM SYSTEM CEILING MOUNTED SPEAKER.
	WIRELESS WALL ANALOG 120V POWERED CLOCK, MOUNTED 1" ABOVE MARKER BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE ALL POWER CONNECTIONS AS REQUIRED TO SMART BOARD POWER CIRCUIT. COORDINATE WITH CLOCK MANUFACTURER FOR RECEPTACLE REQUIREMENTS PRIOR TO ANY ROUGH–IN.
D1	DATA OUTLET IN A 4" SQUARE BOX WITH 1 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. STUB 3/4"C FROM BACKBOX TO 6" ABOVE ACCESSIBLE CEILING, PROVIDE CONDUIT BUSHINGS. PROVIDE 1–CAT5E DATA CABLE BACK TO COMMUNICATIONS BACKBOARD. PROVIDE 1–PORT COVER PLATE. COVER PLATE SHALL BE LABELED WITH DATA CLOSET ROOM NUMBER, DATA DROP NUMBER, AND LOCATION OF SERVING DATA CLOSET. ALL CABLES SHALL BE TESTED AND TERMINATED AT OUTLET AND COMMUNICATION BACKBOARD. INSTALLER SHALL HAVE RCDD ON STAFF. SEE SHEET E700.5.
D2	VOICE/DATA OUTLET IN A 4" SQUARE BOX WITH 1 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. STUB 3/4"C FROM BACKBOX TO 6" ABOVE ACCESSIBLE CEILING, PROVIDE CONDUIT BUSHINGS. PROVIDE 2–CAT5E VOICE/DATA CABLES BACK TO COMMUNICATIONS BACKBOARD. PROVIDE 2–PORT COVER PLATE. COVER PLATE SHALL BE LABELED WITH DATA CLOSET ROOM NUMBER, DATA DROP NUMBER, AND LOCATION OF SERVING DATA CLOSET. ALL CABLES SHALL BE TESTED AND TERMINATED AT OUTLET AND COMMUNICATION BACKBOARD. INSTALLER SHALL HAVE RCDD ON STAFF. SEE SHEET E700.5. "2C" INDICATES DEVICE SHALL BE PROVIDED WITH (2) 3/4"C CONDUITS TO ABOVE ACCESSIBLE CEILING.
WAP	CEILING MOUNTED WIRELESS ACCESS POINT COMMUNICATIONS OUTLET. TYPE 'D1, PROVIDE AT LOCATIONS INDICATED.
	INTERCOM SYSTEM WIRING
	INTERCOM SYSTEM HOMERUN
CT	SECURITY SYSTEM DOOR CONTACT
	SECURITY CAMERA BY OTHERS. CONTRACTOR TO PROVIDE ORANGE CAT5E CABLE FROM CAMERA LOCATION TO I.T. ROOM, SEE SITE PLAN FOR LOCATION. COORDINATE ALL REQUIREMENTS WITH SECURITY VENDOR.
HS	INTERCOM SYSTEM WALL MOUNTED SPEAKER. MOUNT AT 9'–0" AFF.
S	WALL MOUNTED, IP HORN. MOUNT 9'–0" AFF.
PC	EXTERIOR RATED PHOTOCELL COMPATIBLE WITH LIGHTING CONTACTOR.

SYSTEMS LEGEND GENERAL NOTES:

1. LOW VOLTAGE CABLES SHALL BE SUPPORTED VIA J–HOOKS ON 4'0" TO 6'0" CENTERS BASED ON BUILDING STRUCTURE. SECURE J–HOOKS (ERICO CADDY CABLECAT OR EQUAL) TO CEILING, SLAB, OR ROOF BAR JOISTS. PROVIDE VELCRO TIE WRAPS ON 5'0" CENTERS TO ADEQUATELY BUNDLE AND SUPPORT CABLES, NO MORE THAN 24 CABLES PER BUNDLE. TIE WRAPS SHALL BE PROVIDED LOOSELY AROUND CABLES AS TO NO DISTORT THE ORIGINAL SHAPE OF ANY INDIVIDUAL CABLE. DO NOT TIE WRAP COMMUNICATIONS CABLING TO ANY OTHER CABLING (I.E. HVAC CONTROL, ELECTRICAL CONDUIT, ETC.). CLIP OFF ALL EXCESS TIE WRAP AFTER INSTALLATION. REFERENCE "TYPICAL COMMUNICATIONS OUTLET ROUGH–IN MOUNTING DETAIL" ON SHEET E300.2
2. PROVIDE CONDUIT SLEEVES FOR CABLE ACCESS THROUGH FIRE WALLS, PROVIDE UL LISTED FIRE STOPPING.
3. ALL CONDUIT RACEWAYS FOR LOW VOLTAGE CABLING SHALL BE PROVIDED WITH PLASTIC CONDUIT BUSHINGS.
4. ALL LOW VOLTAGE CABLING SHALL BE TESTED AND TERMINATED BY OWNER.
5. ALL OUTLETS ARE TO BE FLUSH MOUNTED.
6. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
7. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
8. ALL MULTI – GANG DEVICES SHALL USE A COMMON COVER PLATE
9. ALL DEVICE COVER PLATES SHALL BE STAINLESS STEEL. SEE SPECIFICATION FOR KEYSTONE COLOR REQUIREMENTS.
10. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.
11. LABELED TERMINATIONS ARE TO BE PROVIDED AT ALL CABLE ENDS. ALL CONNECTORS ARE TO BE PROVIDED, INSTALLED AND TESTED BY COMMUNICATIONS CONTRACTOR.

EQUIPMENT ELECTRICAL SCHEDULE

MARK	ITEM	VOLTAGE/ø	DISCONNECT SWITCH	FEEDER		
				CONDUCTORS	GROUND	CONDUIT
EUH#1	ELECTRIC UNIT HEATER	208/1	MOTOR SWITCH	2#12	#12	0.75"C
AHU#1	AIR HANDLING UNIT	460/3	30/3 N1	3#12	#12	0.75"C
AHU#2	AIR HANDLING UNIT	460/3	30/3 N1	3#10	#10	0.75"C
AHU#3	AIR HANDLING UNIT	460/3	30/3 N1	3#12	#12	0.75"C
AHU#4	AIR HANDLING UNIT	460/3	30/3 N1	3#12	#12	0.75"C
AHU#5	AIR HANDLING UNIT	460/3	30/3 N1	3#12	#12	0.75"C
AHU#6	AIR HANDLING UNIT	460/3	200/3 N1	3#1/0	#6	2.00"C
AHU#7	AIR HANDLING UNIT	460/3	200/3 N1	3#1/0	#6	2.00"C
ACWC#1	AIR COOLED WATER CHILLER	460/3	400/3 N3R	3#350	#4	3.0"C
CWP#1–2	CIRCULATING PUMP	480/3	30/3 N3R	3#10	#10	0.75"C
EF#1–11	EXHAUST FAN	115/1	MECH SWITCH	2#12	#12	0.75"C
WH#1–4	WATER HEATER	208/3	60/3 N3R	3#8	#10	0.75"C

EQUIPMENT COORDINATION GENERAL NOTES:

1. COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE ALL DISCONNECTS ARE PROVIDED AS REQUIRED.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE INTERLOCKING CONNECTIONS FOR ALL HVAC EQUIPMENT AS REQUIRED. REFER TO THE MECHANICAL SCHEDULES FOR EXACT INTERLOCKING INFORMATION.
3. ALL EXHAUST FAN INTERLOCKS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO THE EXHAUST FAN SCHEDULE FOR INTERLOCKING REQUIREMENTS.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION, WIRING AND CONNECTION OF ALL EQUIPMENT WITH THE EQUIPMENT INSTALLER PRIOR TO INSTALLATION.
5. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 4" SQUARE OUTLET BOX WITH SINGLE GANG PLASTER RING FOR EACH THERMOSTAT. PLASTER RING SHALL BE MOUNTED IN A VERTICAL ORIENTATION. 56" A.F.F. TO CENTER UNLESS NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 3/4" CONDUIT FROM THERMOSTAT OUTLET BOX UP IN WALL TO 6" ABOVE CEILING HEIGHT AND OUT OF WALL. EXTEND CONDUIT TO AREA WITH ACCESSIBLE CEILING. LABEL CONDUIT ABOVE ACCESSIBLE CEILING WITH SERVED THERMOSTAT LOCATION. CONDUIT SHALL HAVE NYLON INSULATING BUSHING ON EACH END. PROVIDE PULL STRING IN CONDUIT. REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT LOCATIONS. MOUNT UNIT HEATER THERMOSTATS AS REQUIRED.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A DEDICATED, 20 AMP, 120 VOLT CIRCUIT FOR EACH HVAC CONTROL PANEL. REFER TO MECHANICAL DRAWINGS FOR HVAC CONTROL PANEL LOCATIONS.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT SITE SWITCHES PRIOR TO INSTALLATION.
8. ALL DISCONNECTS FOR EQUIPMENT SHALL BE MOUNTED SECURELY TO THE FLOOR OR STRUCTURE. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL UNISTRUT AND MOUNTING HARDWARE AS REQUIRED TO MOUNT THE DISCONNECTS. ALL EXTERIOR DISCONNECTS SHALL BE NEMA–3R.
9. CIRCUIT BREAKERS SERVING EQUIPMENT ARE BASIS OF DESIGN ONLY. EXACT CIRCUIT BREAKER AND CONDUCTOR SIZES SHALL BE COORDINATED WITH ACTUAL EQUIPMENT BEING INSTALLED PRIOR TO ORDERING OF PANELBOARD. ANY COST INCREASE ASSOCIATED WITH INCREASED CIRCUIT REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT INSTALLER. ELECTRICIAN SHALL SIZE CIRCUIT BREAKERS, CONDUCTORS, CONDUITS, AND DISCONNECTS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND INDICATE THE APPROPRIATE CHANGES ON AS–BUILT DOCUMENTS.
10. IN ALL MECHANICAL ROOMS, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE CODE REQUIRED CLEARANCES AND WORKING SPACES ARE MAINTAINED AT ALL ELECTRICAL EQUIPMENT.

LIGHTING FIXTURE SCHEDULE

- LIGHTING MANUFACTURERS OTHER THAN THOSE LISTED IN THIS SCHEDULE SHALL SUBMIT PRIOR APPROVAL NO LESS THAN 10 DAYS PRIOR TO BID. NO FIXTURES WILL BE REVIEWED AFTER THE 10 DAY DEADLINE, NO EXCEPTIONS. MANUFACTURER'S NOT APPROVED PRIOR TO BID SHALL NOT BE SUBMITTED FOR CONSTRUCTION.
- THE LIGHTING PACKAGE SUBMITTED FOR CONSTRUCTION SHALL MEET OR EXCEED THE LIGHTING SPECIFICATIONS AND FIXTURE SCHEDULE, AND COMPLY WITH THE DESIGN AND FUNCTIONALITY REQUIREMENTS SHOWN ON THE LIGHTING PLANS, NO EXCEPTIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THEIR LIGHTING PACKAGE IS EQUAL TO THE SPECIFICATIONS AND PLANS PRIOR TO BIDDING. ANY FIXTURE PACKAGE SUBMITTED FOR REVIEW DURING THE CONSTRUCTION PHASE THAT IS NOT EQUAL TO THE SPECIFICATIONS AND PLANS WILL BE REJECTED. THE ACCEPTANCE OF AN EQUAL PACKAGE SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. ANY ADDITIONAL COSTS INCURRED BY BRINGING AN INFERIOR LIGHTING PACKAGE UP TO THE STANDARDS OF THE SPECIFICATIONS AND PLANS DUE TO LACK OF QUALITY AND/OR FUNCTION OF DESIGN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HIS/HER LIGHTING SUPPLER. THESE REQUIREMENTS SHALL ALSO BE INCLUSIVE OF ALL LIGHTING CONTROL SYSTEMS.

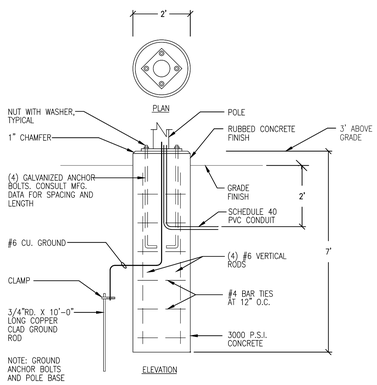
MARK	LAMPS			MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES
	#	WATTS	TYPE			
EX EXWG	FURN–ISHED W/ FIXTURE	1W	LED RED	UNIVERSAL	HE WILLIAMS – EXIT/CA–R–AF–BLK–EM–SDT–D HE WILLIAMS – EXIT/CA–R–AF–BLK–EM–SDT–WG–D	PROVIDE ARROWS AS INDICATED ON PLANS. "EXWG" SHALL BE PROVIDED WITH A WIRE GUARD.
GL GLE	FURN–ISHED W/ FIXTURE	228W	LED 40K	PENDANT SUSPENDED @ 22'–0"	H.E. WILLIAMS # GH–4–L300/840–FA–DIM–UNV H.E. WILLIAMS # GH–4–L300/840–FA–EM/10W–DIM–UNV	PROVIDE WITH WIRE GUARDS AND POLY CARBONATE LENS.
LT40 LT40E	FURN–ISHED W/ FIXTURE	23.5W	LED 35K	RECESSED GRID	H.E. WILLIAMS # LT–24–L40/835–AF–DIM–UNV H.E. WILLIAMS # LT–24–L40/835–AF–EM/10W–DIM–UNV	
LT52 LT52E	FURN–ISHED W/ FIXTURE	37.2W	LED 35K	RECESSED GRID	H.E. WILLIAMS # LT–24–L52/835–AF–DIM–UNV H.E. WILLIAMS # LT–24–L52/835–AF–EM/10W–DIM–UNV	
LT64 LT64E	FURN–ISHED W/ FIXTURE	48.5W	LED 35K	RECESSED GRID	H.E. WILLIAMS # LT–24–L64/835–AF–DIM–UNV H.E. WILLIAMS # LT–24–L64/835–AF–EM/10W–DIM–UNV	
DL6	FURN–ISHED W/ FIXTURE	9W	LED 35K	RECESSED GYPSUM	HE WILLIAMS – 6DR–TL–L10–835

SITE PLAN KEYNOTES

1. NOT USED.
2. PROVIDE 4–1.5" CONDUITS WITH PULL STRING ROUTED A MINIMUM OF 24" BELOW GRADE FOR NEW FIRE ALARM, INTERCOM, AND TELECOMMUNICATION SERVICE. COORDINATE STUB LOCATION INSIDE NEW GYMNASIUM WITH MCPSS IT DEPARTMENT PRIOR TO ANY ROUGH–IN. COORDINATE CONDUIT STUB LOCATION INSIDE EXISTING ARCH BUILDING WITH MCPSS IT DEPARTMENT PRIOR TO ANY ROUGH–IN.
3. NEW PAD MOUNT TRANSFORMER. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ANY ROUGH–IN. SEE ELECTRICAL SINGLE LINE DIAGRAM. ALL UTILITY FEES SHALL BE INCLUDED IN THE BID PRICE.
4. NEW UNDERGROUND ELECTRICAL SERVICE ROUTED A MINIMUM OF 36" BELOW GRADE. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ROUGH–IN. SEE ELECTRICAL SINGLE LINE DIAGRAM. ALL UTILITY FEES SHALL BE INCLUDED IN THE BID PRICE.
5. PROVIDE 2–5" CONDUITS WITH PULL WIRE ROUTED A MINIMUM OF 48" BELOW GRADE FOR ALABAMA POWER COMPANY CONDUCTORS.

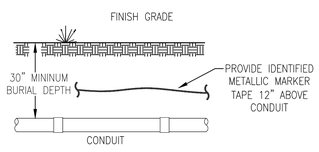
SITE PLAN GENERAL NOTES

1. COORDINATE REMOVAL OF EXISTING LIGHT FIXTURES AND INSTALLATION OF NEW LIGHT FIXTURES WITH ALABAMA POWER. LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED BY ALABAMA POWER CO.



LIGHTING POLE BASE DETAIL
NOT TO SCALE

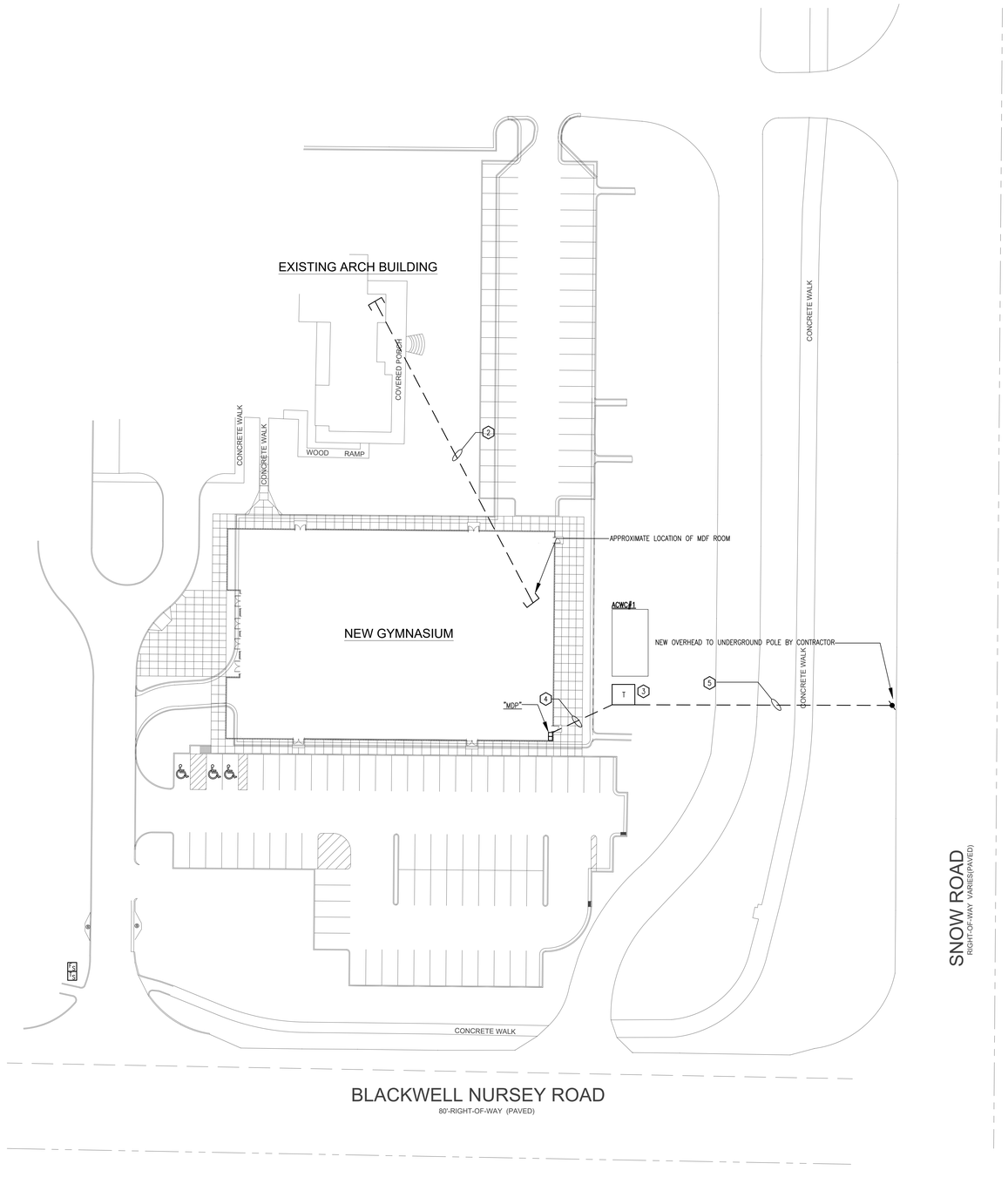
EXACT POLE BASE REQUIREMENTS SHALL BE CERTIFIED BY A STRUCTURAL ENGINEER PRIOR TO POLE BASE INSTALLATION.



BURIED CONDUIT DETAIL
NOT TO SCALE

ALL SITE LIGHTING HOMERUNS SHALL BE #8AWG. SITE LIGHTING CIRCUITRY BETWEEN FIXTURES SHALL BE #10AWG.

PANELBOARD FEEDERS BETWEEN ELECTRICAL ROOMS SHALL BE ROUTED UNDERGBROUND



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1 ELECTRICAL SITE PLAN
1" = 30'-0"

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4275 SNOW RD N, SEMMES, AL 36575

ALABAMA LICENSED No. 34807 PROFESSIONAL ENGINEER JOHN THOMAS VARGO III

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE

ELECTRICAL SITE PLAN

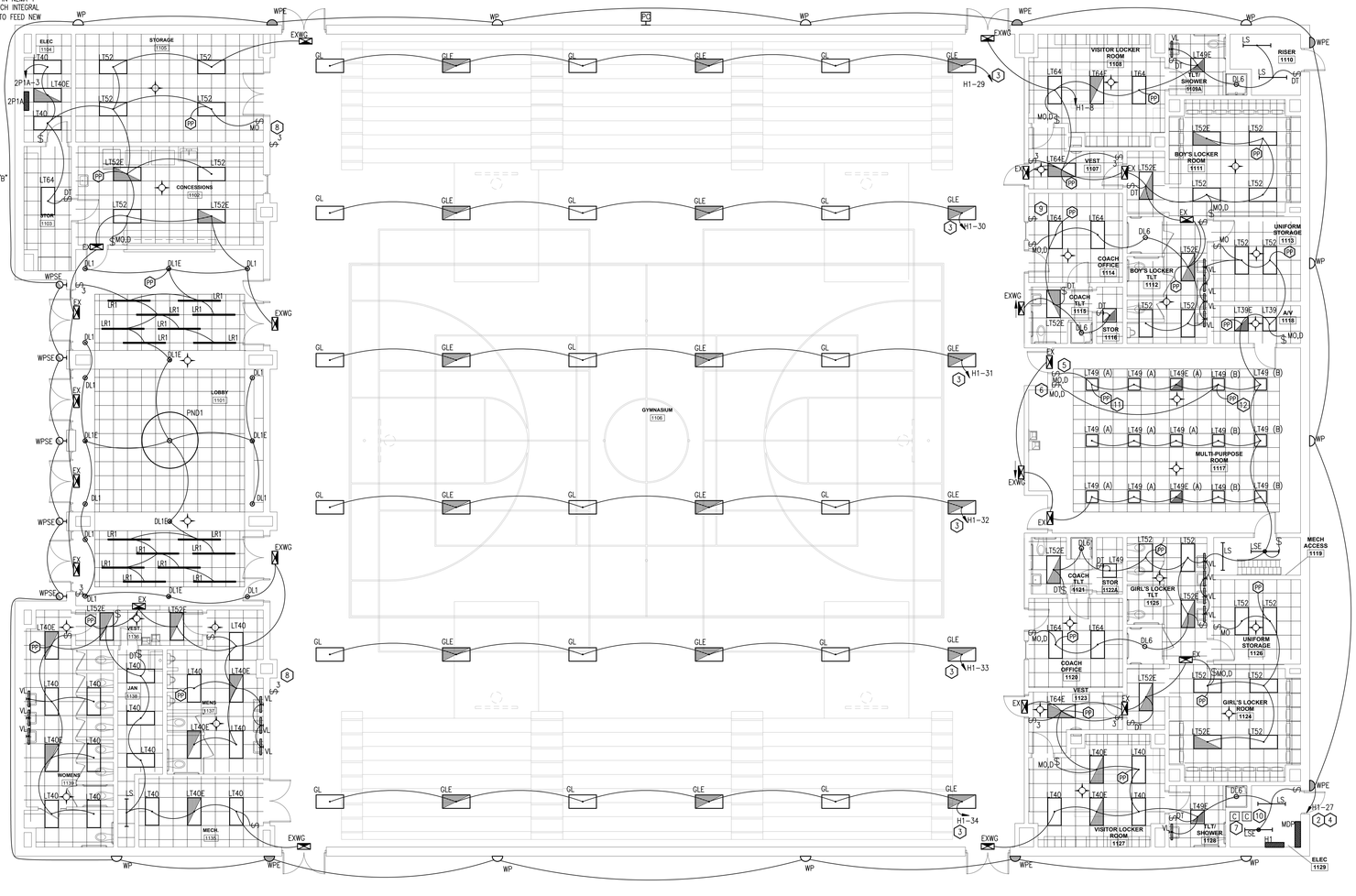
E002

LIGHTING FLOOR PLAN KEYNOTES

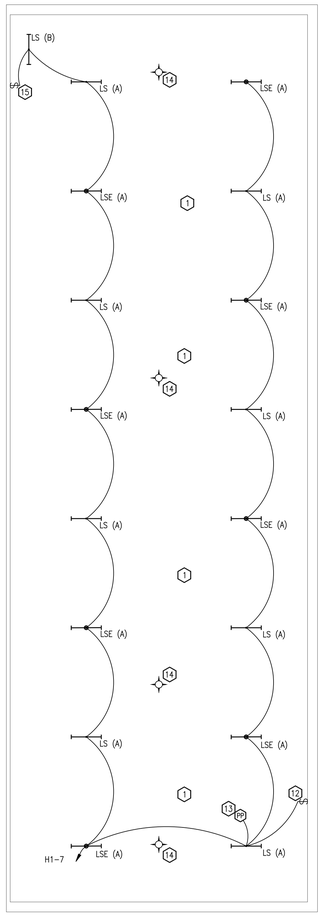
1. COORDINATE LIGHT FIXTURE INSTALLATION WITH MECHANICAL DUCT ROUTING. COORDINATE EXACT DUCT ROUTING IN THE FIELD WITH THE MECHANICAL CONTRACTOR. PROVIDE ALL MOUNTING SUPPORTS AND HARDWARE AS REQUIRED.
2. ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, INTERMATIC ET2805C ASTRONOMIC TIME CLOCK, AND PHOTOCELL. LOCATE CONTACTOR ADJACENT TO SOURCE PANEL. SEE DETAIL ON SHEET E401.
3. ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR AND INTERMATIC ET2805 ASTRONOMIC TIME CLOCK. LOCATE CONTACTOR ADJACENT TO SOURCE PANEL. SEE DETAIL ON E402.
4. RUN SHALL BE 2#10, #10G, 3/4"C.
5. THIS SWITCH SHALL CONTROL FIXTURES LABELED AS "A" in MULTIPURPOSE 1117.
6. THIS SWITCH SHALL CONTROL FIXTURES LABELED AS "B" IN MULTIPURPOSE 1117.
7. PROVIDE CUTLER HAMMER CLASS ECL03 ELECTRICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE ECL03-C1H7A, PROVIDE NAMEPLATE. PROVIDE MANUAL SELECTOR SWITCH INTEGRAL TO ENCLOSURE. PROVIDE ONE(1) NEW 20A/1P CIRCUIT BREAKER IN PANEL "H1" TO FEED NEW CONTACTOR. PROVIDE NEUTRAL CONNECTION TO CONTACTOR FROM PANEL "H1".
8. THIS SWITCH SHALL BE USED FOR CONTROL OF LIGHTING CONTACTOR 1. SEE KEYNOTE 7 FOR ADDITIONAL INFORMATION.
9. OVERRIDE SWITCH FOR LIGHTING CONTACTOR 1. COORDINATE LOCATION WITH CONTRACTOR PRIOR TO ROUGH IN.
10. PROVIDE CUTLER HAMMER CLASS ECL03 ELECTRICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE ECL03-C1H7A, PROVIDE NAMEPLATE. PROVIDE MANUAL SELECTOR SWITCH INTEGRAL TO ENCLOSURE. PROVIDE ONE(1) NEW 20A/1P CIRCUIT BREAKER IN PANEL "H1" TO FEED NEW CONTACTOR. PROVIDE NEUTRAL CONNECTION TO CONTACTOR FROM PANEL "H1".
11. THIS POWER PACK SHALL BE CONNECTED TO FIXTURES LABELED AS "A" IN MULTIPURPOSE 1117.
12. THIS POWER PACK SHALL BE CONNECTED TO FIXTURES LABELED AS "B" IN MULTIPURPOSE 1117.
12. THIS SINGLE POLE TOGGLE SWITCH SHALL ONLY CONTROL FIXTURES LABELED AS "A" IN THE MEZZANINE.
13. THIS POWER PACK SHALL ONLY CONTROL FIXTURES LABELED AS "A" IN THE MEZZANINE.
14. THIS OCCUPANCY SENSOR SHALL ONLY CONTROL FIXTURES LABELED AS "A" IN THE MEZZANINE.
15. THIS SINGLE POLE TOGGLE SWITCH SHALL ONLY CONTROL FIXTURES LABELED AS "B" IN THE MEZZANINE.

LIGHTING GENERAL NOTES:

1. COORDINATE LOCATION OF LIGHT FIXTURES WITH DUCT WORK. LIGHT FIXTURES TO BE AT LEAST 12" BELOW DUCTWORK.
2. COORDINATE LOCATION OF ALL INTERIOR LOBBY LIGHTS WITH INTERIOR DESIGNER.



1 LIGHTING PLAN
1/8" = 1'-0"
4'-0" 16'-0"
0" 8'-0" 32'-0"



2 MEZZANINE LIGHTING PLAN
1/8" = 1'-0"
4'-0" 16'-0"
0" 8'-0" 32'-0"

FOR ALL LOW VOLTAGE LIGHTING CONTROL CONNECTION REQUIREMENTS: SEE LEGEND SHEET AND DETAIL SHEETS. PROVIDE ALL CONNECTIONS AS REQUIRED.

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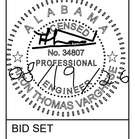

BID SET

DATE: 08/19/26
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#	DESC	DATE

ELECTRICAL LIGHTING PLAN

E101

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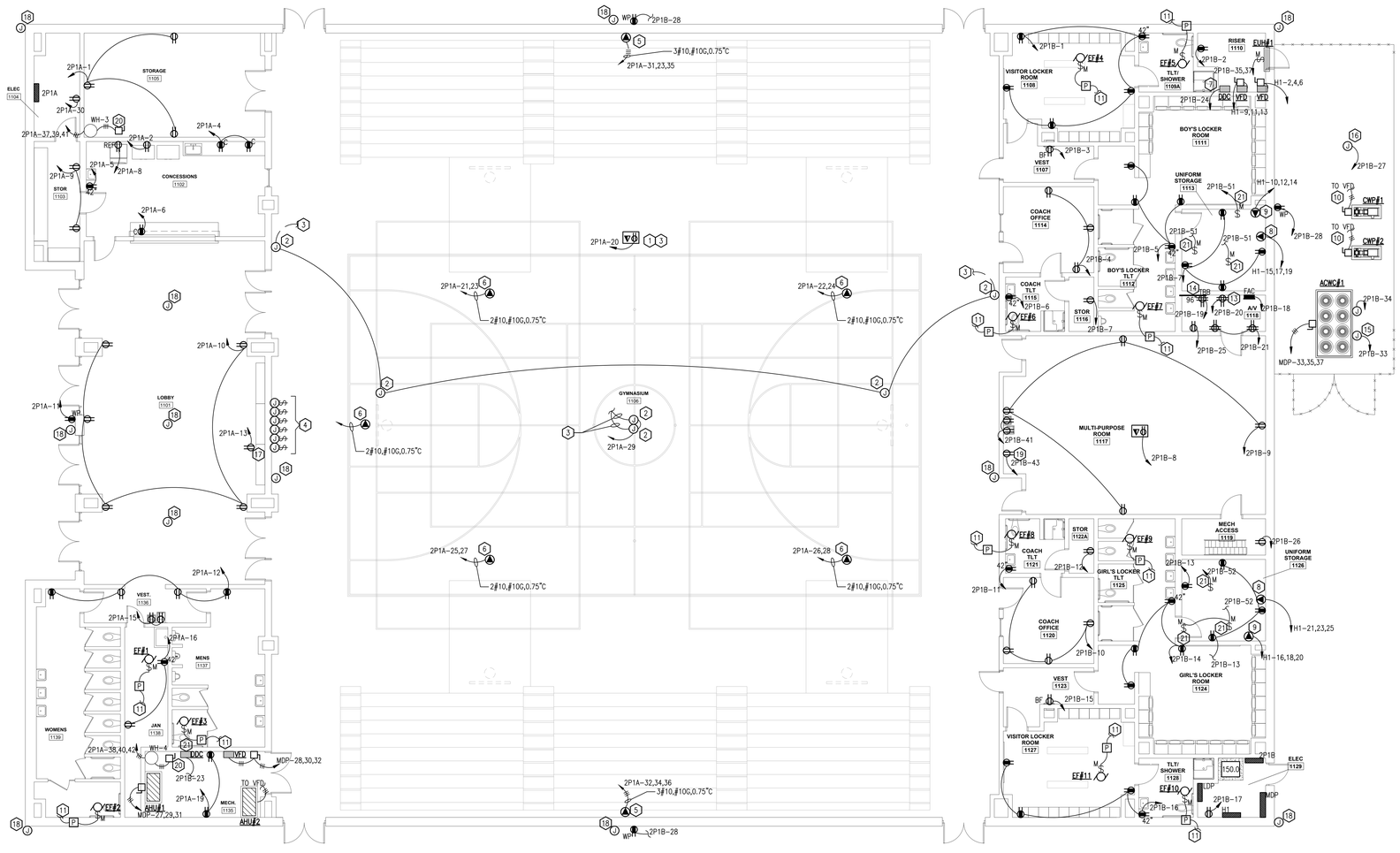
POWER PLAN KEYNOTES

1. COORDINATE THE LOCATION OF THE SCORER'S TABLE FLOOR BOX WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN. WRITTEN APPROVAL IS TO BE OBTAINED FOR THE LOCATION CHOSEN.
2. COORDINATE THE LOCATION OF THIS JUNCTION BOX WITH THE SCOREBOARD/SHOT CLOCK PRIOR TO ROUGH-IN.
3. PROVIDE A 3/4" CONDUIT WITH PULL STRING TO THE SCORER'S TABLE FLOOR BOX. TERMINATE ALL CONDUITS INTO A LARGER JUNCTION BOX AS REQUIRED BEFORE ENTERING THE FLOOR BOX.
4. PROVIDE TOTAL OF SIX (6) JUNCTION BOXES FLUSH IN WALL FOR MOUNTING OF CONTROLS FOR GOAL WINCH MOTORS. COORDINATE ALL REQUIREMENTS WITH GOAL WINCH MOTOR SUPPLIER PRIOR TO ANY ROUGH-IN. PROVIDE CONNECTIONS TO GOAL WINCH MOTORS. COORDINATE LOCATION WITH ARCHITECTURAL.
5. COORDINATE THE LOCATION AND POWER REQUIREMENTS OF THIS RECEPTACLE WITH THE MOTORIZED BLEACHERS PRIOR TO ROUGH-IN. PROVIDE NEMA L21-20 RECEPTACLE AND PLUG WITH MINIMUM 6'-0" CORD LENGTH AT 4#10, 1#10G. ENSURE BLEACHERS ARE ORDERED WITH THE PLUG AND PLAY POWER OPTION. COORDINATE FINAL REQUIREMENTS WITH THE EQUIPMENT PROVIDER TO ENSURE PROPER DEVICE, BREAKER AND CIRCUITING ARE PROVIDED TO MATCH THE BLEACHERS. MODIFY EQUIPMENT AS REQUIRED TO ACCOMMODATE ACTUAL BLEACHERS INSTALLED.
6. COORDINATE DEVICE LOCATION WITH BASKETBALL GOAL WINCH. MOUNT DEVICE WITHIN 3'-0" OF WINCH. PROVIDE 3/4" CONDUIT TO LOCATION AS REQUIRED BY EQUIPMENT INSTALLER FOR WINCH CONTROL.
7. COORDINATE THE FINAL LOCATION AND POWER REQUIREMENTS OF THE HVAC CONTROL PANEL WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH IN. CIRCUIT NUMBER AS INDICATED. CONNECT TO ADDITIONAL HVAC CONTROL PANELS ON SAME CIRCUIT.
8. RECEPTACLE FOR WASHING MACHINE. RUN SHALL BE 3#12, #12G, 3/4"C. COORDINATE DEVICE LOCATION WITH WASHING MACHINE.
9. RECEPTACLE FOR DRYER. RUN SHALL BE 3#8, #10G, 3/4"C. COORDINATE DEVICE LOCATION WITH DRYER.
10. PROVIDE INTERLOCK CONNECTION FROM DISCONNECT TO VFD FOR PROPER EQUIPMENT SHUTDOWN.
11. INTERLOCK EXHAUST FAN WITH LOCAL RESTROOM LIGHTING CIRCUIT FOR POWER. COORDINATE INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
12. NOT USED
13. RECEPTACLE FOR USE WITH A/V CABINET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
14. PROVIDE 3/4" X 4' X 8' PLYWOOD BACKBOARD. PROVIDE 6" CLEARANCE ABOVE FLOOR. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSH WITH BACKBOARD. PROVIDE #6 GROUND IN 3/4" EMT CONDUIT FROM SERVING ELECTRICAL PANEL TO BACKBOARD. COIL 10' SLACK AT BACKBOARD. PROVIDE GROUND BUS BAR (HARGER GBI SERIES) AS REQUIRED BY COMMUNICATIONS CONTRACTOR.
15. JUNCTION BOX FOR ACWC#1 HEAT TRACE. COORDINATE LOCATION WITH MECHANICAL AND PLUMBING.
16. JUNCTION BOX FOR EXTERIOR PIPING. COORDINATE LOCATION WITH MECHANICAL AND PLUMBING.
17. POWER RECEPTACLE FOR MONITOR. WALL MOUNT 12" BELOW CEILING.
18. JUNCTION BOX FOR CAMERA. PROVIDE 1-3/4" CONDUIT TO A/V ROOM.
19. POWER RECEPTACLE FOR MONITOR. WALL MOUNT 70" A.F.F.
20. POWER CONNECTION FOR TANK WATER HEATER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ANY ROUGH-IN.
21. APPROXIMATE LOCATION OF FIRE DAMPER. REFER TO SHEET M101 FOR MORE INFORMATION.
22. COORDINATE THE FINAL LOCATION AND POWER REQUIREMENTS OF THE HVAC CONTROL PANEL WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH IN. CIRCUIT NUMBER AS INDICATED. CONNECT TO ADDITIONAL HVAC CONTROL PANELS ON SAME CIRCUIT.



AUTOMATIC RECEPTACLE CONTROLS HAVE NOT BEEN PROVIDED; IN ACCORDANCE WITH THE EXCEPTION TO ASHRAE 90.1 – 2013, SECTION 8.4.2

1 ELECTRICAL PLAN
1/8" = 1'-0"
0" 4'-0" 8'-0" 16'-0" 32'-0"
N

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MARY G MONTGOMERY GYM
MOBILE COUNTY PUBLIC SCHOOL SYSTEM
4275 SNOW RD N, SEMMES, AL 36575

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS		
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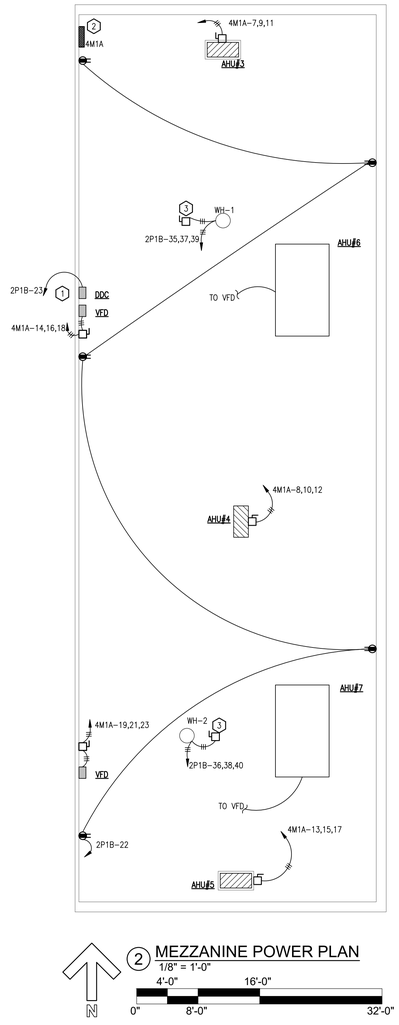
ELECTRICAL POWER PLAN

E201

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS / EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
253 ST. ANTHONY STREET
MOBILE, ALABAMA 36603
PHONE: (251)690-7446

POWER PLAN KEYNOTES

1. COORDINATE THE FINAL LOCATION AND POWER REQUIREMENTS OF THE HVAC CONTROL PANEL WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH IN. CIRCUIT NUMBER AS INDICATED. CONNECT TO ADDITIONAL HVAC CONTROL PANELS ON SAME CIRCUIT.
2. MAINTAIN CLEARANCE AND WORKING SPACE PER THE NATIONAL ELECTRICAL CODE ABOUT ELECTRICAL EQUIPMENT IN THIS SPACE.
3. POWER CONNECTION FOR TANK WATER HEATER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ANY ROUGH-IN.



2 MEZZANINE POWER PLAN

1/8" = 1'-0"

0" 4'-0" 8'-0" 16'-0" 32'-0"

AUTOMATIC RECEPTACLE CONTROLS HAVE NOT BEEN PROVIDED; IN ACCORDANCE WITH THE EXCEPTION TO ASHRAE 90.1 – 2013, SECTION 8.4.2

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ELECTRICAL POWER PLAN

E202

H.M. YONGE & ASSOCIATES, INC.
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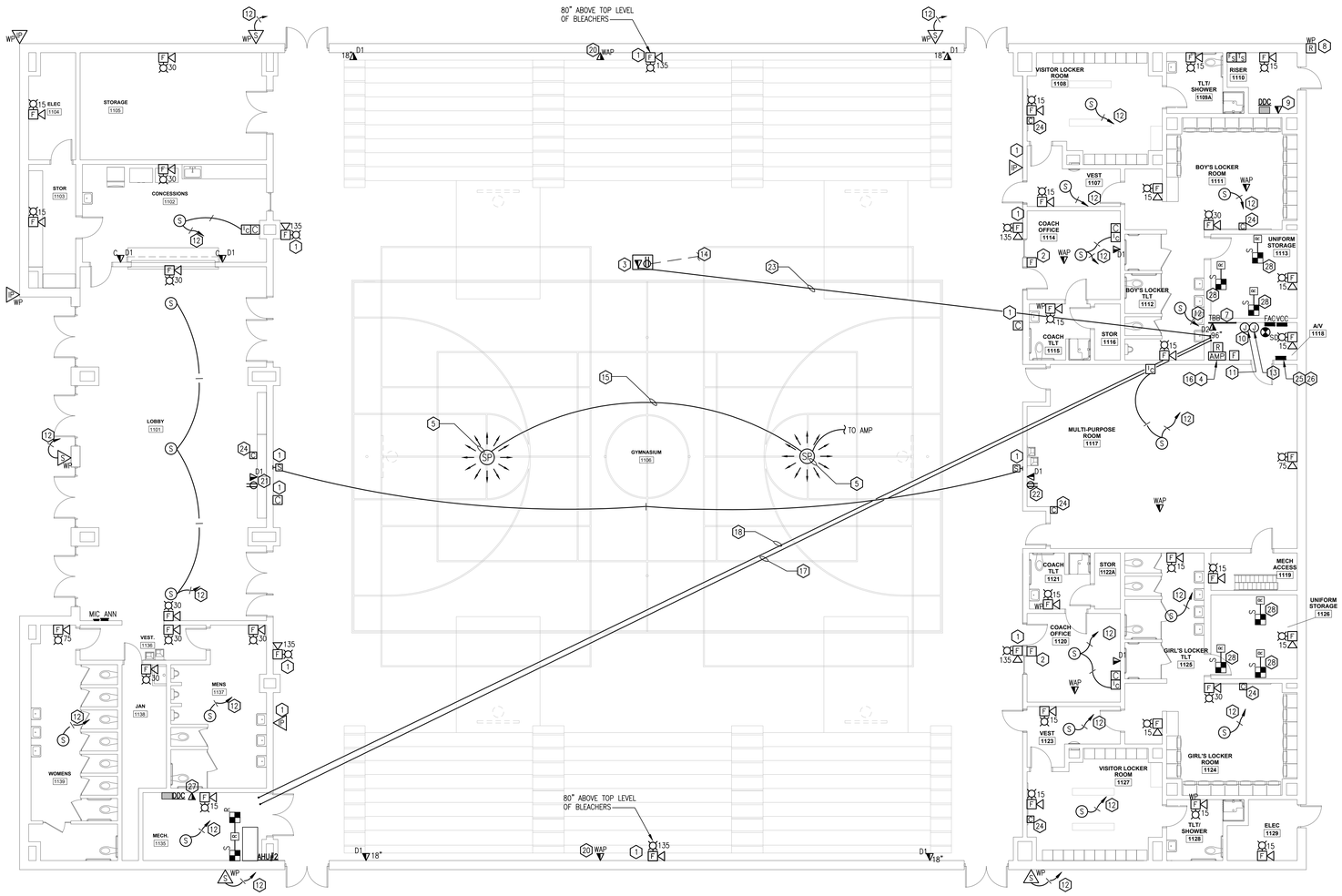
SYSTEMS GENERAL NOTES:

1. COORDINATE WITH THE MECHANICAL CONTRACTOR, THE EXACT LOCATION OF THE AIR HANDLER/ROOF TOP UNIT SHUTDOWNS (AT THE CONTROL PANEL OR AT THE UNIT).
2. VERIFY EXACT NUMBER AND LOCATION OF DUCT DETECTORS FROM MECHANICAL PLAN, NOT THE RISER DIAGRAM.
3. VERIFY EXACT NUMBER AND LOCATION OF TAMPER AND FLOW SWITCHES FROM PLUMBING PLANS, NOT THE RISER DIAGRAM.
4. VERIFY LOCATION AND MOUNTING HEIGHT OF ALL DEVICES WITH FURNITURE PLAN AND OWNER PRIOR TO ROUGH IN (SPECIFICALLY AT THE FURNITURE IN THE CLASSROOMS).

SYSTEMS PLAN KEYNOTES

1. THIS DEVICE / FIXTURE IS TO BE INSTALLED WITH A WIRE GUARD AS APPROVED BY THE ARCHITECT.
2. PROVIDE PULL STATION IN A CONSTANTLY ATTENDED LOCATION PER IBC REQUIREMENTS.
3. COORDINATE THE EXACT LOCATION OF THE SCORER'S TABLE FLOOR BOX WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN. WRITTEN APPROVAL IS TO BE OBTAINED FOR THE LOCATION CHOSEN.
4. PROVIDE SOUND SYSTEM HEAD END EQUIPMENT AS RECOMMENDED BY SPEAKER MANUFACTURER. THE AMPLIFIER SHALL BE THE LEA CS124 OR EQUAL. PROVIDE A 1" CONDUIT WITH PULL STRING TO CEILING MOUNTED SPEAKERS IN GYM. ALSO PROVIDE A 1" CONDUIT WITH PULL STRING TO SCORER'S TABLE FLOOR BOX. PROVIDE SPEAKER CONTROLS AS RECOMMENDED BY SPEAKER MANUFACTURER.
5. ORIENT SPEAKERS PER MANUFACTURER'S RECOMMENDATIONS TO PROVIDE OPTIMAL SOUND. PROVIDE SAFETY MOUNTING HARDWARE AND WIRE GUARDS AS REQUIRED. COORDINATE THE LOCATION WITH THE BEAMS/JOISTS/CEILING AND CENTER THE SPEAKERS WITH THE ROOM. THE LOUDSPEAKERS SHALL BE THE SOUNDSPHERE 110 PAGE OR EQUAL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. NOT USED.
7. PROVIDE 3/4" x 4' x 8' PLYWOOD BACKBOARD. PROVIDE 6" CLEARANCE ABOVE FLOOR. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSHED WITH BACKBOARD. PROVIDE #6 GROUND IN 3/4" EMT CONDUIT FROM SERVING ELECTRICAL PANEL TO BACKBOARD. COIL 10' SLACK AT BACKBOARD. PROVIDE GROUND BUS BAR (HARGER GBI SERIES) AS REQUIRED BY COMMUNICATIONS CONTRACTOR.
8. ELECTRIC FIRE BELL. COORDINATE WITH FIRE PROTECTION INSTALLER. PROVIDE ALL CONNECTIONS AS REQUIRED.
9. DATA DROP FOR HVAC CONTROL PANEL. CONTRACTOR TO COORDINATE EXACT LOCATION WITH MECHANICAL PRIOR TO ANY ROUGH-IN.
10. FULL HEIGHT FLOOR MOUNT EQUIPMENT RACK WITH EQUIPMENT MOUNTING HARDWARE AS REQUIRED. REFER TO RACK ELEVATION DETAIL. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO SWITCHES, ROUTERS, FIBER DRAWERS, PATCH PANELS, JACKS, CORDS...ETC AS REQUIRED TO INTERFACE WITH EXISTING DATA SYSTEM. INSTALLER SHALL HAVE RCDD ON STAFF. SEE SITE PLAN FOR INCOMING FIBER CONNECTION REQUIREMENTS.
11. NEW CLOCK SYSTEM WIRELESS TRANSMITTER. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES PRIOR TO ANY ROUGH-IN. SIZE BOX AS REQUIRED. SEE CLOCK SYSTEM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
12. INTERCOM SYSTEM HOMERUN. ROUTE 3/4"C FROM INTERCOM DEVICE TO INTERCOM SYSTEM JUNCTION BOX IN ELECTRICAL ROOM. SEE INTERCOM SYSTEM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
13. NEW INTERCOM SYSTEM JUNCTION BOX. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES PRIOR TO ANY ROUGH-IN. ROUTE ALL NEW INTERCOM SYSTEM HOMERUNS THROUGH THIS JUNCTION BOX. SIZE BOX AS REQUIRED. SEE INTERCOM SYSTEM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
14. PROVIDE A 1" AND 1-1/4" CONDUIT WITH PULL STRING TO COMMUNICATIONS BACKBOARD FOR COMMUNICATIONS WIRING. COORDINATE FINAL REQUIREMENTS WITH THE OWNER PRIOR TO ROUGH-IN.
15. 3/4" CONDUIT WITH PULL STRING.
16. SOUND SYSTEM SHALL BE INTEGRATED INTO THE FIRE ALARM SYSTEM. FIRE ALARM SIGNALS SHALL BE BROADCAST THROUGH THE SOUND SYSTEM IN THE EVENT OF AN EMERGENCY. SOUND SYSTEM INSTALLER SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR FOR ALL INTERCONNECTION REQUIREMENTS. PROVIDE BATTERY BACKUP SYSTEM AS REQUIRED.
17. PROVIDE A 4" CONDUIT WITH PULL STRING FROM FIRE ALARM CONTROL PANEL BELOW GRADE FOR FIRE ALARM CABLING. STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING, LABEL CONDUIT, AND CAP AT EACH END.
18. PROVIDE A 4" CONDUIT WITH PULL STRING FROM TELECOM BACKBOARD BELOW GRADE FOR COMMUNICATIONS CABLING. STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING, LABEL CONDUIT, AND CAP AT EACH END.
19. NOT USED.
20. PLACE 20'-30' A.F.F.
21. POWER AND DATA FOR MONITOR. WALL MOUNT 12" BELOW CEILING. SEE E201 FOR ADDITIONAL INFORMATION CONCERNING POWER RECEPTACLE.
22. POWER AND DATA FOR MONITOR. WALL MOUNT AT 70" A.F.F. SEE E201 FOR ADDITIONAL INFORMATION CONCERNING POWER RECEPTACLE.
23. PROVIDE A 3/4" CONDUIT WITH PULL STRING FROM TELECOM BACKBOARD BELOW GRADE FOR COMMUNICATIONS CABLING. STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING, LABEL CONDUIT, AND CAP AT EACH END.
24. MOUNT DEVICE 12" BELOW CEILING
25. TESTING SHALL BE PERFORMED TO DETERMINE THE NEED FOR AN EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM (ERCES). TESTING SHALL BE CONDUCTED BY THE ELECTRICIAN AND PERFORMED BY THE LOCAL FIRE DEPARTMENT. AN ALLOWANCE OF $5,000.00 SHALL BE INCLUDED IN THE BID PRICE FOR THE TESTING PROCEDURE.
26. EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM (ERCES) HEAD END EQUIPMENT. PROVIDE ALL DEDICATED 120V POWER CONNECTIONS AS REQUIRED BY EQUIPMENT VENDER. AN ALLOWANCE OF $100,000.00 SHALL BE INCLUDED IN THE BID PRICE FOR THE INSTALLATION AND MATERIALS ASSOCIATED WITH THE ERCES SYSTEM.
27. DATA DROP FOR HVAC CONTROL PANEL. CONTRACTOR TO COORDINATE EXACT LOCATION WITH MECHANICAL PRIOR TO ANY ROUGH-IN.
28. APPROXIMATE LOCATION OF FIRE DAMPER. REFER TO SHEET M101 FOR MORE INFORMATION.



1 SYSTEMS PLAN
1/8" = 1'-0"
0" 4'-0" 8'-0" 16'-0" 32'-0"
N

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BID SET

DATE: 08/19/26
PROJ NO: 25-138

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ELECTRICAL SYSTEM PLAN

E301

H.M. YONGE & ASSOCIATES, INC.
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51 EAST GREGORY STREET
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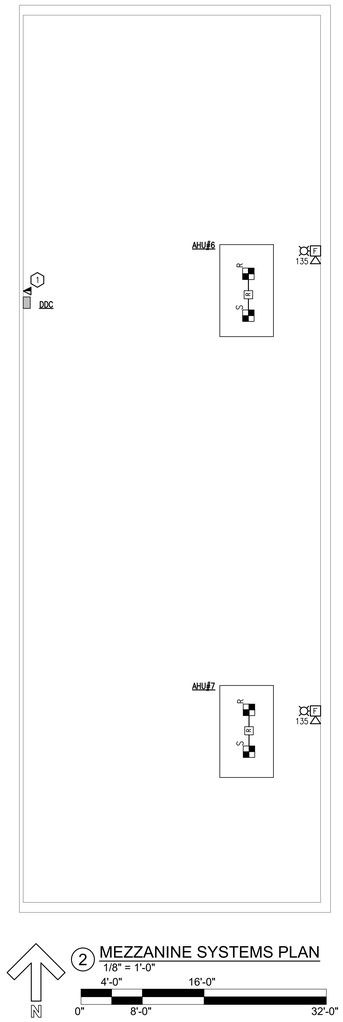
PHONE: (251)690-7446

SYSTEMS PLAN KEYNOTES

1. DATA DROP FOR HVAC CONTROL PANEL. CONTRACTOR TO COORDINATE EXACT LOCATION WITH MECHANICAL PRIOR TO ANY ROUGH-IN.



2 MEZZANINE SYSTEMS PLAN
1/8" = 1'-0"

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ALABAMA LICENSED No. 34807 PROFESSIONAL ENGINEER JOHN THOMAS VARGO

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ELECTRICAL SYSTEMS PLAN

E302

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51 EAST GREGORY STREET
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PHONE: (850)434-2661
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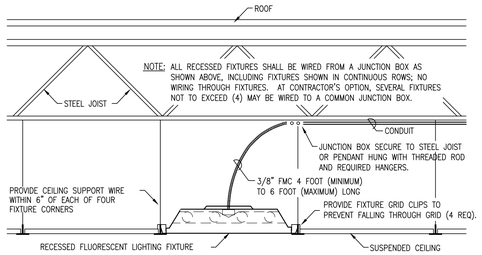
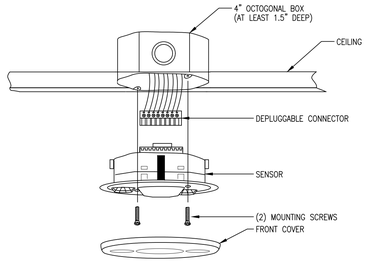


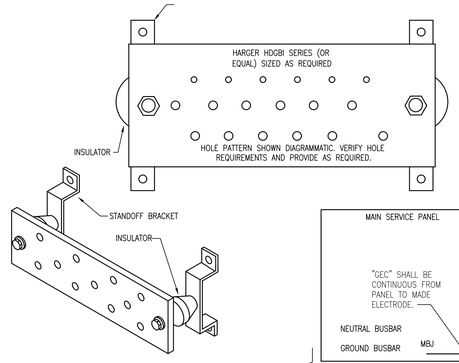
TYPICAL RECESSED FIXTURE INSTALLATION DETAIL

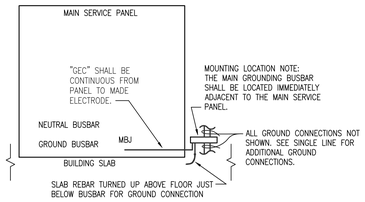
SCALE: NONE



OCCUPANCY SENSOR MOUNTING DETAIL

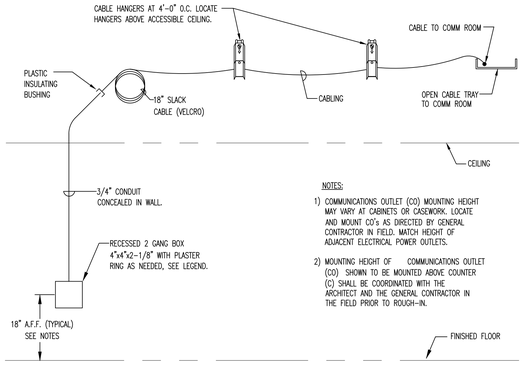
SCALE: NONE





MAIN GROUNDING BUSBAR DETAIL

SCALE: NONE



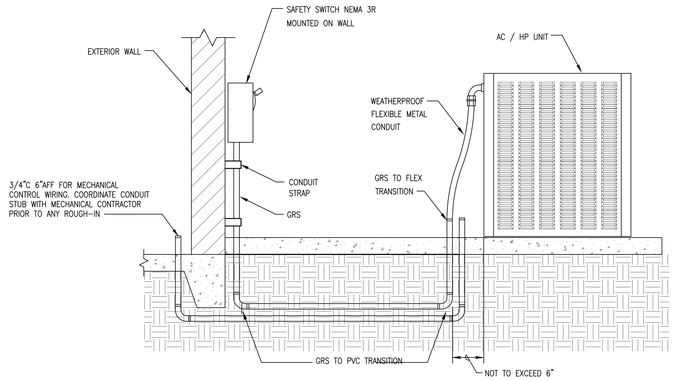
NOTES:

1) COMMUNICATIONS OUTLET (CO) MOUNTING HEIGHT MAY VARY AT CABINETS OR CASEWORK. LOCATE AND MOUNT CO's AS DIRECTED BY GENERAL CONTRACTOR IN FIELD. MATCH HEIGHT OF ADJACENT ELECTRICAL POWER OUTLETS.

2) MOUNTING HEIGHT OF COMMUNICATIONS OUTLET (CO) SHOWN TO BE MOUNTED ABOVE COUNTER (C) SHALL BE COORDINATED WITH THE ARCHITECT AND THE GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.

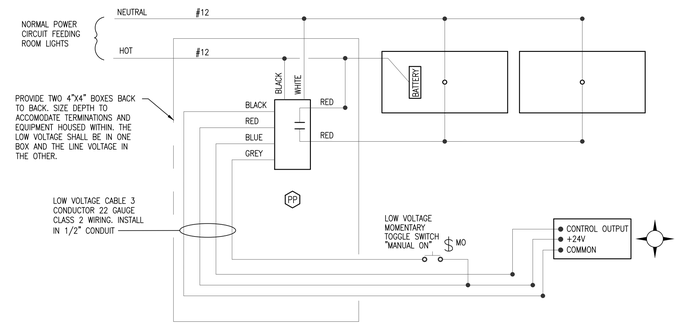
TYPICAL COMMUNICATIONS OUTLET ROUGH-IN MOUNTING DETAIL

SCALE: NONE



TYPICAL EXTERIOR AC/HP ELECTRICAL CONNECTION DETAIL

SCALE: NONE



TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM – MANUAL ON

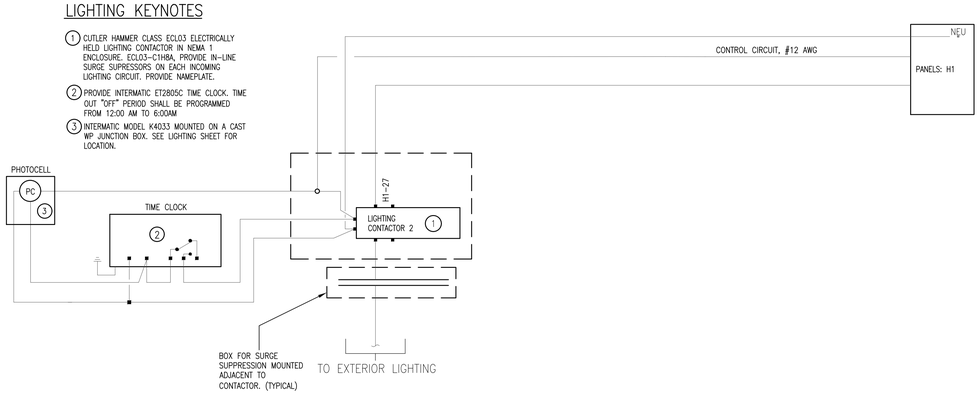
SCALE: NONE

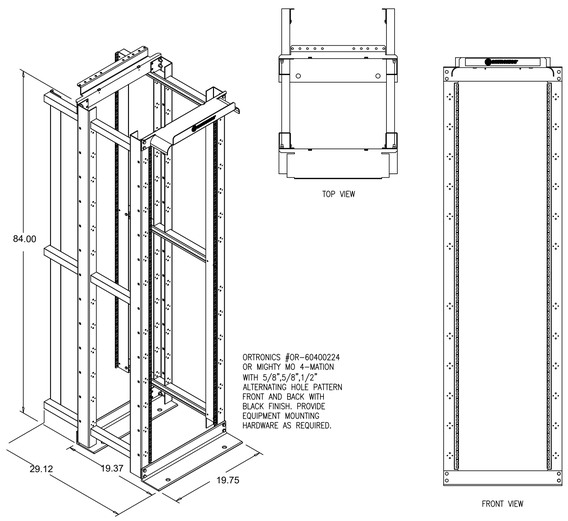
EXTERIOR WALL PACK LIGHTING CONTROL DIAGRAM

NOT TO SCALE

EXTERIOR WALL PACK LIGHTING KEYNOTES

1. CUTLER HAMMER CLASS ECL03 ELECTRICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE. ECL03-C1HBA. PROVIDE IN-LINE SURGE SUPRESSORS ON EACH INCOMING LIGHTING CIRCUIT. PROVIDE NAMEPLATE.
2. PROVIDE INTERMATIC ET2805C TIME CLOCK. TIME OUT "OFF" PERIOD SHALL BE PROGRAMMED FROM 12:00 AM TO 6:00AM
3. INTERMATIC MODEL K4033 MOUNTED ON A CAST WP JUNCTION BOX. SEE LIGHTING SHEET FOR LOCATION.





FULL HEIGHT RACK DETAIL

NOT SO SCALE

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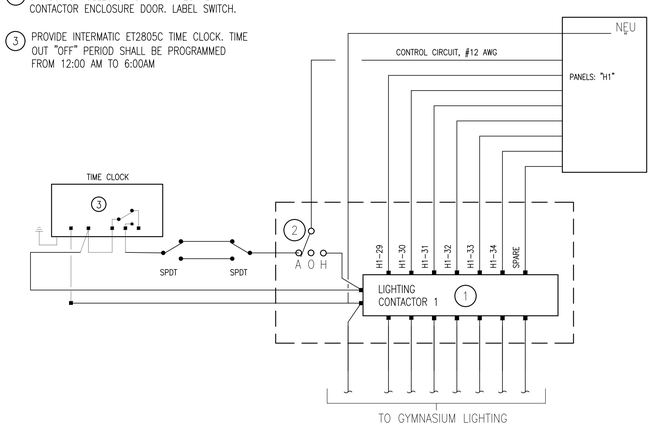
ELECTRICAL DETAILS

E401

LIGHTING CONTROL DIAGRAM KEY NOTES

1. CUTLER HAMMER CLASS ECL03 ELECTRICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE. ECL03-C1H7A-S3. PROVIDE NAMEPLATE.
2. 3-POSITION SELECTOR SWITCH INTEGRAL TO CONTACTOR ENCLOSURE DOOR. LABEL SWITCH.
3. PROVIDE INTERMATIC ET2805C TIME CLOCK. TIME OUT "OFF" PERIOD SHALL BE PROGRAMMED FROM 12:00 AM TO 6:00AM

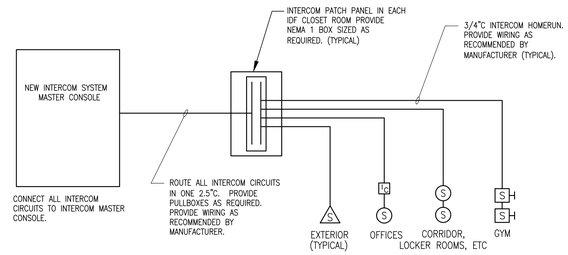


GYMNASIUM LIGHTING CONTROL DIAGRAM

NOT TO SCALE

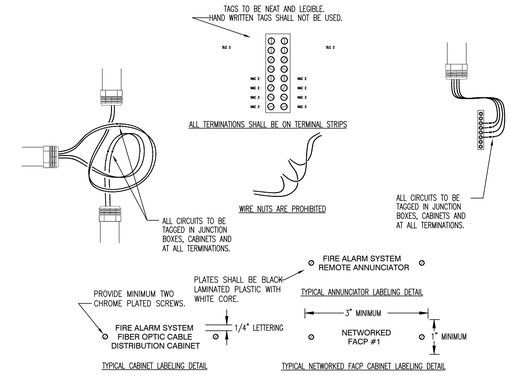
INTERCOM RISER DIAGRAM

SCALE: NONE



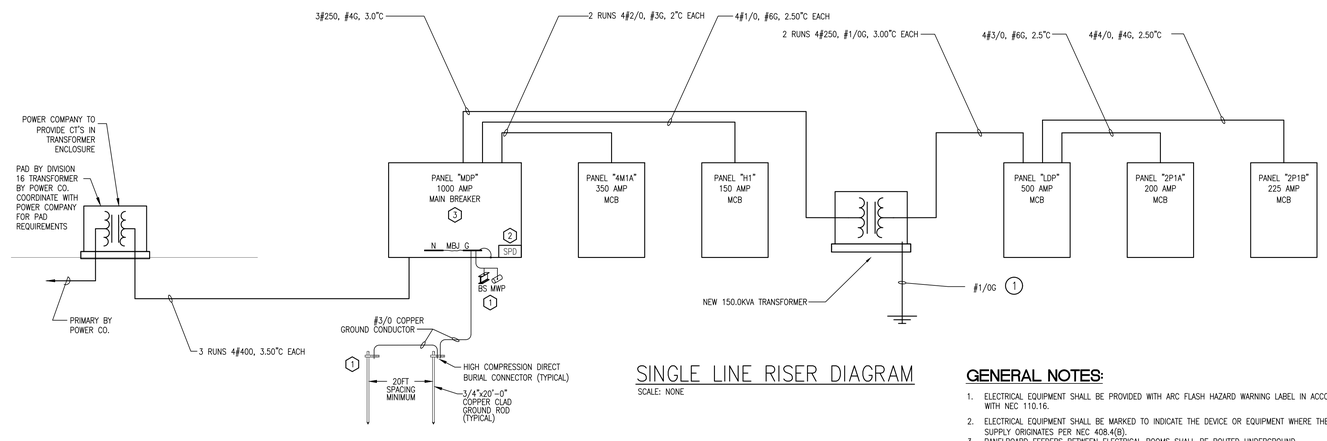
INTERCOM SYSTEM GENERAL NOTES:

1. VERIFY EXACT NUMBER OF DEVICES FROM FLOOR PLAN, NOT RISER DIAGRAM.



FIRE ALARM SYSTEM LABELING DETAIL

SCALE: NONE



SINGLE LINE RISER DIAGRAM

SCALE: NONE

GENERAL NOTES:

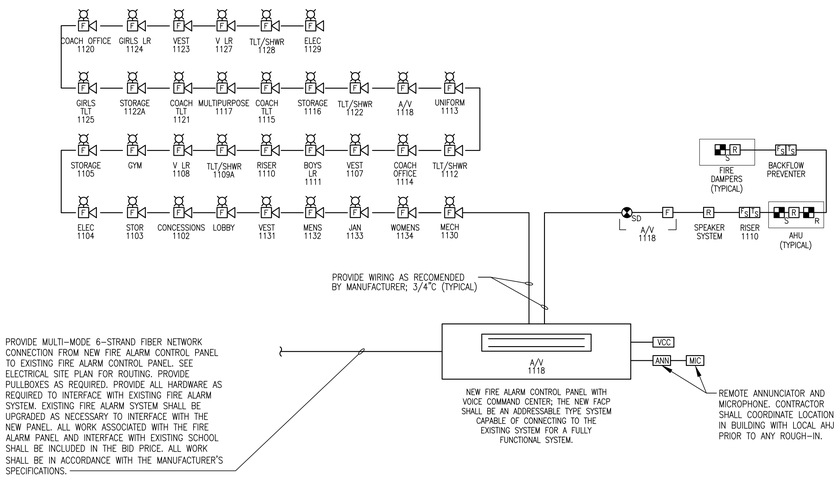
1. ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH ARC FLASH HAZARD WARNING LABEL IN ACCORDANCE WITH NEC 110.16.
2. ELECTRICAL EQUIPMENT SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER NEC 408.4(B).
3. PANELBOARD FEEDERS BETWEEN ELECTRICAL ROOMS SHALL BE ROUTED UNDERGROUND

KEYNOTES:

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC 2020 ARTICLE 250.
2. PROVIDE INTERNAL, SERVICE ENTRANCE RATED, CATEGORY-C SURGE PROTECTION DEVICE, 10-MODE, 240kA PER PHASE.
3. PANELBOARD SHALL BE PROVIDED WITH FACTORY INSTALLED METERING, EQUAL TO EATON POWER XPERT MULTI-POINT METER. ALL BRANCH CIRCUIT BREAKERS AND MAIN SERVICE CIRCUIT BREAKER SHALL BE METERED INDIVIDUALLY. METERING SHALL RECORD ENERGY USAGE A MINIMUM OF EVERY 15 MINUTES AND BE REPORTED AT LEAST HOURLY, DAILY, MONTHLY, AND ANNUALLY. THIS DATA SHALL BE STORED FOR A MINIMUM OF 36 MONTHS. ALL METERING INFORMATION TO BE COLLECTED AND STORED BY OWNER VIA OWNER'S BUILDING MANAGEMENT SYSTEM COORDINATE REQUIREMENTS WITH OWNER. METER TO BE PROVIDED WITH NETWORK CAPABILITY. CONTRACTOR TO PROVIDE ONE CAT6 CABLE FROM METER TO ELECTRICAL ROOM WITH 10FT OF SLACK COILED AT EACH END, CABLE SHALL BE TERMINATED BY PROVIDED BY CONTRACTOR. METER MANUFACTURER TO PROVIDE OWNER COMMISSIONING AND TRAINING.

FIRE ALARM SYSTEM RISER DIAGRAM

SCALE: NONE



PROVIDE MULTI-MODE 6-STRAND FIBER NETWORK CONNECTION FROM NEW FIRE ALARM CONTROL PANEL TO EXISTING FIRE ALARM CONTROL PANEL. SEE ELECTRICAL SITE PLAN FOR ROUTING. PROVIDE PULLBOXES AS REQUIRED. PROVIDE ALL HARDWARE AS REQUIRED TO INTERFACE WITH EXISTING FIRE ALARM SYSTEM. EXISTING FIRE ALARM SYSTEM SHALL BE UPGRADED AS NECESSARY TO INTERFACE WITH THE NEW PANEL. ALL WORK ASSOCIATED WITH THE FIRE ALARM PANEL AND INTERFACE WITH EXISTING SCHOOL SHALL BE INCLUDED IN THE BID PRICE. ALL WORK SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

FIRE ALARM SYSTEM GENERAL NOTES:

a. VERIFY EXACT NUMBER OF DEVICES FROM FLOOR PLAN, NOT RISER DIAGRAM.

b. THE NAC CIRCUITS ARE SHOWN DIAGRAMMATIC. MAXIMUM NUMBER OF DEVICES ON ANY CIRCUIT IS LIMITED. PROVIDE ADDITIONAL HARDWARE AS REQUIRED.

c. SLC LOOP TO CONNECT ALL FIRE ALARM SYSTEM DEVICES FROM FLOOR PLANS. PROVIDE ADDITIONAL LOOP(S) AS REQUIRED.

d. BATTERY CABINETS AND NAC EXPANDERS SHALL BE LOCATED BELOW OR ADJACENT TO FIRE ALARM CONTROL PANEL.

e. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA 72 (LATEST EDITION). SHOP DRAWINGS SHALL COMPLY WITH NFPA 72 SECTION.

f. SPLICING OF FIRE ALARM WIRING IS STRICTLY PROHIBITED.

g. UPON PROJECT COMPLETION THE CAMPUS WIDE FIRE ALARM SYSTEM SHALL BE RE-CERTIFIED AND TESTED. PROVIDE WITH A RECORD OF COMPLETION AS REQUIRED IN NFPA 72.

h. THE FIRE ALARM INSTALLER SHALL BE LICENSED AS A CERTIFIED FIRE ALARM CONTRACTOR. THE CONTRACTOR MUST HAVE A NICET LEVEL III TECHNICIAN IN A POSITION OF RESPONSIBILITY, AND THE LICENSE SHALL BE ISSUED IN THE NAME OF THE CERTIFICATE HOLDER AND THE CONTRACTOR. TECHNICIANS WORKING FOR THE CERTIFIED CONTRACTOR MUST HOLD A CURRENT NICET LEVEL II, OR EQUIVALENT, CERTIFICATION. CONTRACTORS WISHING TO BID ON FIRE ALARM WORK SHALL SHOW EVIDENCE AT THE PRE-BID CONFERENCE THAT HE/SHE MEETS THE CERTIFICATION REQUIREMENTS AND HOLD A PERMIT ISSUED BY THE STATE OF ALABAMA FIRE MARSHAL.

i. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. AUTOMATIC TELEPHONE DIALING DEVICES USED TO TRANSMIT AN EMERGENCY ALARM SHALL NOT BE CONNECTED TO ANY FIRE DEPARTMENT TELEPHONE NUMBER UNLESS APPROVED BY THE FIRE CHIEF.

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT AS FOLLOWS PER NEC 110.24:

"Panel XX"
"Maximum available fault current = #,### Amps"
"Month DD, Year"

THE LABEL SHOULD BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL PANEL BOARDS IN AREA OF WORK THAT ARE TO REMAIN TO INDICATE ORIGIN OF POWER SUPPLY.

NOTE: ALL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE PROVIDED WITH A LABEL IN ACCORDANCE WITH NEC 110.16. THE EQUIPMENT MANUFACTURER SHALL PROVIDE AN ARC FLASH HAZARD ANALYSIS TO DETERMINE THE LEVEL OF PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED FOR EACH PIECE OF EQUIPMENT. LABEL SHALL INCLUDE:

1. AT LEAST ONE OF THE FOLLOWING:
   A. AVAILABLE INCIDENT ENERGY AND THE CORRESPONDING WORKING DISTANCE
   B. MINIMUM ARC RATING OF CLOTHING
   C. REQUIRED LEVEL OF PPE
   D. HIGHEST HAZARD/RISK CATEGORY (HRC) FOR THE EQUIPMENT
2. NOMINAL SYSTEM VOLTAGE
3. ARC FLASH BOUNDARY

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE THE OVER CURRENT PROTECTION FOR THE SPECIFIC HVAC EQUIPMENT MEETS THE MANUFACTURER AND THE NATIONAL ELECTRICAL CODE REQUIREMENTS.

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL PANEL BOARDS WITH ORIGIN OF POWER SUPPLY. VIA MECHANICALLY FASTENED PHENOLIC LABEL.

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ALABAMA LICENSED No. 34807 PROFESSIONAL ENGINEER THOMAS VARGO

BID SET

DATE: 08/19/26
PROJ NO: 25-138

REVISIONS

#	DESC	DATE

ELECTRICAL DETAILS

E402

PANEL MDP SCHEDULE

NEMA 1, SURFACE MOUNT
1000A M.B. 480Y/277V 3ø 4W — 42,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1									2
3	PANEL 4M1A	3	350	208.1	94.0	150	3	PANEL H1	4
5									6
7									8
9	TRANSFORMER	3	250	119.2	·	20	3	SPARE	10
11									12
13	SPARE	1	20	·	·	20	1	SPARE	14
15	SPARE	1	20	·	·	20	1	SPARE	16
17	SPARE	1	20	·	·	20	1	SPARE	18
19	SPARE	1	20	·	·	20	1	SPARE	20
21	SPARE	1	20	·	·	20	1	SPARE	22
23	SPARE	1	20	·	·	20	1	SPARE	24
25	SPARE	1	20	·	·	20	1	SPARE	26
27									28
29	AHU#1	3	20	8.5	18.4	30	3	AHU#2	30
31									32
33									34
35	ACWC#1	3	300	190.2	·	20	3	SPARE	36
37									38
39	SPARE	2	20	·	·	20	2	SPARE	40
41									42

CONNECTED LOAD 638.4 KVA

(A) PROVIDE PHENOLIC LABEL AFFIXED TO PANEL INDICATING THIS VALUE ALONG WITH THE DATE OF THE INSTALLATION.

PANEL LDP SCHEDULE

NEMA 1, SURFACE MOUNT
500A M.B. 208Y/120V 3ø 4W — 22,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1									2
3	PANEL 2P1A	3	200	58.8	61.6	225	3	PANEL 2P1B	4
5									6
7	SPARE	1	20	·	·	20	1	SPARE	8
9	SPARE	1	20	·	·	20	1	SPARE	10
11	SPARE	1	20	·	·	20	1	SPARE	12

CONNECTED LOAD 120.4 KVA

(G) INDICATES GFCI TYPE BREAKER.

PANEL 2P1A SCHEDULE

NEMA 1, RECESSED MOUNT
200 M.B. 208Y/120V 3ø 4W — 22,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1	RECS STORAGE 1105	1	20	0.8	1.0	20	1	ICE MACHINE CONCESSION 1102 (G)	2
3	LIGHTING WEST SIDE	1	20	1.6	0.4	20	1	RECS CONCESSIONS 1102 SINK	4
5	RECS CONCESSIONS 1102 SINK	1	20	0.4	0.2	20	1	RECS POS CONCESSION 1102	6
7	SPARE	1	20	·	.2	20	1	REFRIGERATOR CONCESSION 1102 (G)	8
9	RECS STORAGE 1103	1	20	0.4	1.0	20	1	RECS LOBBY 1101	10
11	RECS EXTERIOR	1	20	0.2	0.8	20	1	RECS VEST 1136/BTH 1137, 1139	12
13	MONITOR LOBBY	1	20	0.5	·	20	1	SPARE	14
15	DRINKING FOUNTAINS 1136 (G)	1	20	1.1	0.4	20	1	RECS JAN 1138	16
17	SPARE	1	20	·	·	20	1	SPARE	18
19	RECS MECH 1135	1	20	0.4	0.6	20	1	GYM SCORER'S FLOORBOX	20
21	GOAL WENCH	2	30	5.0	5.0	30	2	GOAL WENCH	22
23									24
25	GOAL WENCH	2	30	5.0	5.0	30	2	GOAL WENCH	26
27									28
29	CENTER CRT. SCOREBOARD–GYM	1	20	0.6	0.2	20	1	RECS EL 1104	30
31									32
33	BLEACHERS	3	30	5.0	5.0	30	3	BLEACHERS	34
35									36
37									38
39	WATER HEATER #3	3	35	9.0	9.0	35	3	WATER HEATER #4	40
41									42

CONNECTED LOAD 58.8 KVA

(G) INDICATES GFCI TYPE BREAKER.

PANEL 2P1B SCHEDULE

NEMA 1, RECESSED MOUNT
225A M.B. 208Y/120V 3ø 4W — 22,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1	RECS VISITOR LR 1108	1	20	1.0	0.2	20	1	RECS RISER 1110	2
3	BOTTLE FILLER VEST 1107 (G)	1	20	0.4	0.6	20	1	RECS COACH OFFICE 1114	4
5	RECS LR 1111	1	20	.8	.2	20	1	RECS COACH TLT 1115	6
7	RECS ST 1116	1	20	0.2	1.0	20	1	RECS FLOOR MULTI 1117	8
9	RECS MULTI 1117	1	20	0.8	0.8	20	1	RECS COACH OFFICE 1120	10
11	RECS COACH TLT 1121	1	20	0.2	0.2	20	1	RECS ST 1122	12
13	RECS ST 1126	1	20	0.8	0.8	20	1	RECS LR 1124	14
15	BOTTLE FILLER VEST 1123 (G)	1	20	0.4	0.8	20	1	RECS LR 1127	16
17	RECS EL 1129	1	20	0.2	1.0	20	1	FACP	18
19	TBB A/V 1118	1	20	0.4	0.4	20	1	A/V CABINET	20
21	RECS A/V 1118	1	20	0.8	1.0	20	1	RECP MEZZANAINE	22
23	DDC CONTROL PANELS	1	20	1.0	1.0	20	1	DDC CONTROL PANEL RISER	24
25	AMPLIFIER	1	20	0.7	0.2	20	1	RECS MECH ACCESS 1119	26
27	EXTERIOR PIPING HEAT TRACE	1	20	0.5	0.6	20	1	RECS EXTERIOR	28
29	EUH#1	2	20	3.0	·	20	2	SPARE	30
31									32
33	ACWC#1 HEAT TRACE	1	20	0.5	2.3	20	1	ACWC#1 EVAPORATOR HEATER	34
35									36
37	WATER HEATER #1	3	35	9.0	9.0	35	3	WATER HEATER #2	38
39									40
41	DRINKING FOUNTAIN 1117 (G)	1	20	1.1	·	20	1	SPARE	42
43	MONITOR MULTIPURPOSE	1	20	0.5	·	20	1	SPARE	44
45									46
47	SPARE	3	·	9.0	9.0	·	3	SPARE	48
49									50
51	FIRE DAMPERS 1113	1	20	0.6	0.6	20	1	FIRE DAMPERS 1126	52
53	SPARE	1	20	·	·	20	1	SPARE	54

CONNECTED LOAD 61.6 KVA

(G) INDICATES GFCI TYPE BREAKER.

PANEL H1 SCHEDULE

NEMA 3R, RECESSED MOUNT
150A M.B. 480Y/277V 3ø 4W — 42,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1									2
3	SPARE	3	20	·	9.1	25	3	CWP#1	4
5									6
7	LIGHTING MEZZANAINE	1	20	0.8	3.6	20	1	LIGHTING EAST SIDE	8
9									10
11	CWP#2	3	25	9.1	28.3	45	3	DRYER 1113	12
13									14
15									16
17	WASHER 1113	3	20	2.5	28.3	45	3	DRYER 1126	18
19									20
21									22
23	WASHER 1126	3	20	2.5	.	.	3	SPARE	24
25									26
27	EXTERIOR LIGHTING	1	20	1.4	·	20	1	SPARE	28
29	GYM LIGHTING CIRCUIT #1	1	20	1.4	1.4	20	1	GYM LIGHTING CIRCUIT #2	30
31	GYM LIGHTING CIRCUIT #3	1	20	1.4	1.4	20	1	GYM LIGHTING CIRCUIT #4	32
33	GYM LIGHTING CIRCUIT #5	1	20	1.4	1.4	20	1	GYM LIGHTING CIRCUIT #6	34
35	SPARE	1	20	·	·	20	1	SPARE	36
37									38
39	SPARE	3	·	·	·	·	3	SPARE	40
41									42

CONNECTED LOAD 94.0 KVA

(G) INDICATES GFCI TYPE BREAKER.

PANEL 4M1A SCHEDULE

NEMA 1, RECESSED MOUNT
350A M.B. 480Y/277V 3ø 4W — 42,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1									2
3	SPARE	3	20	·	·	20	3	SPARE	4
5									6
7									8
9	AHU#3	3	20	9.7	9.7	20	3	AHU#4	10
11									12
13									14
15	AHU#5	3	20	9.7	89.5	150	3	AHU#6	16
17									18
19									20
21	AHU#7	3	150	89.5	·	20	3	SPARE	22
23									24
25									26
27	SPARE	3	20	·	·	20	3	SPARE	28
29									30
31									32
33	SPARE	3	20	·	·	20	3	SPARE	34
35									36
37									38
39	SPARE	3	20	·	·	20	3	SPARE	40
41									42

CONNECTED LOAD 208.1 KVA

(G) INDICATES GFCI TYPE BREAKER.

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ELECTRICAL SCHEDULES

E501

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