NOTE: THIS BUILDING IS CONSTRUCTED OF 2 MODULES.

CODE SUMMARY:						
STATE	BUILDING	ELEC.	MECH.	PLUMB.	ACCESS.	ENERGY
SC	2021 IBC W/ SC AMEND. 2021 IFC W/ SC AMEND.	2020 NEC W/ SC AMEND.	2021 IMC W/ SC AMEND.	2021 IPC W/ SC AMEND.	ICC / ANSI A117.1-2017	2009 IECC

BUILDING DESIGN PARAMETERS

1. USE / OCCUPANCY: CLASSROOMS / EDUCATION
2. GRADES: 6 TO 8
3. CONSTRUCTION TYPE : VB
4. SPRINKLER SYSTEM: NO
5. BUILDING AREA: 1,804 SQ FT
6. BUILDING HEIGHT: < 15 FEET
7. NUMBER OF STORIES: 1
8. NUMBER OF MODULES : 2
9. OCCUPANT LOAD ~~(91) BASED ON [20] SQ FT P~~ER OCCUPANT IN CLASSROOMS
10. EXTERIOR WALL FIRE RATING N/A
11. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY THE IBC TABLE 602, SECTION 705.3 AND SECTION 705.5 -2021 IBC.
12. ENERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS
13. MANUFACTURERS DATA PLATE, STATE LABELS AND THIRD PARTY LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

Correct room sf and occupant loads based on code of 20 sf net per person

DRAWING INDEX

SOUTH CAROLINA

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AMERICUS, GA 31719

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 33930
6-17-24
JAMES ALLEN CHAPMAN

STATE OF SOUTH CAROLINA
JOHN BODZIAK
CLEARWATER, FL
AR 6503
REGISTERED ARCHITECT
06/18/2024

EMC APPROVED
06 19 2024

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DATE:	5-10-24	ENGINEER: JAMES ALLEN CHAPMAN, P.E. AMERICUS, GA 31719	
SCALE:	N-T-S		
CODES:	SC		
DBI-11430 AB - 27'-4"x66'-0" - EDUCATION REV2			
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STRUCTURAL LOAD LIMITATIONS ASCE7-16

FLOOR LIVE LOAD:
A. DEAD LOAD = 12 PSF (AVERAGE).
B. UNIFORM LIVE LOAD = 40 PSF.
C. CONCENTRATED LOAD (ALTERNATE)= 1,000 LB, OVER 30"X30" AREA AT ANY LOCATION.

ROOF LIVE LOAD:
A. DEAD LOAD = 15 PSF (AVERAGE).
B. LIVE LOAD = 30 PSF.

ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 40 PSF
B. FLAT-ROOF SNOW LOAD Pf = 30.8 PSF
C. SNOW EXPOSURE FACTOR Ce = 1.0
D. SNOW IMPORTANCE FACTOR Is = 1.0
E. SNOW THERMAL FACTOR Ct = 1.1
F. ROOF SLOPE FACTOR Cs = 1.0
G. SLOPED ROOF SNOW LOAD Ps = 20 PSF Ps = Pf x Cs
H. Pm = 20 PSF LOW-SLOPE SNOW LOAD Pm = Pg x Is
I. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-16.

WIND LOAD: ASCE 7-16
A. BASIC WIND SPEED (3 SEC GUST) 160 MPH
B. ASD WIND SPEED (3 SEC GUST) 124 MPH
C. RISK CATEGORY II
D. WIND EXPOSURE CATEGORY C
E. INTERNAL PRESSURE COEFFICIENT GCpi= 0.18
F. COMPONENT & CLADDING BASIC DESIGN PRESSURES, ASD DESIGN PRESSURE FOR ROOF 0 TO7 DEGREES.
WALL ZONE 5: P = +/- 74.7 psf (Pasd = +/- 44.8 PSF)
WALL ZONE 4: P = +/- 60.5 psf (Pasd = +/- 36.3 PSF)
ROOF ZONE 3: P = - 159.6 psf (Pasd = - 95.8 PSF)
ROOF ZONE 2: P = - 117.1 psf (Pasd = - 70.3 PSF)
ROOF ZONE 1: P = - 88.8 psf (Pasd = - 53.3 PSF)
ROOF ZONE 1': P = - 50.9 psf (Pasd = - 30.6 PSF)
G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.
I. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.

SEISMIC LOAD:
A. RISK CATEGORY : II
B. SEISMIC IMPORTANCE FACTOR Ie = 1.0
C. SITE CLASS D
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = < 0.441 S1 = < 0.147 Sds = < 0.426 Sd1 = < 0.226
E. SEISMIC DESIGN CATEGORY D
F. SEISMIC FORCE RESISTING SYSTEM A13
G. SIMPLIFIED SEISMIC ANALYSIS PROCEDURE HAS BEEN USED.
H. RESPONSE MODIFICATION FACTOR R = 6.5
I. SEISMIC RESPONSE COEFFICIENT Cs = 0.065
J. DESIGN BASE SHEAR V = 4,138 LB

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

ROOF RAIN LOAD:
A. RAIN INTENSITY: i = 4.0 INCHES / HOUR.

TEXAS - EXT. DOOR SPECIFICATIONS

1. SOLID.
2. METAL WITH FOAM CORE
3. Uo - 0.193.
4. SWINGING.
5. MAX ALLOWABLE AIR LEAKAGE RATE 0.3 CFM (PER SQUARE FOOT OF DOOR AREA).

TEXAS - WINDOW SPECIFICATIONS

1. VINYL FRAME WITHOUT THERMAL BREAK
2. OPERABLE
3. DOUBLE PANE TINTED GLASS
4. Uo - 0.45
5. MAX ALLOWABLE AIR LEAKAGE RATE 0.3 CFM (PER SQUARE FOOT OF WINDOW AREA).

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STRUCTURAL LOADS		PAGE:	2 / 11

GENERAL NOTES:

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTION REQUIREMENTS.
5. PORTABLE FIRE EXTINGUISHERS PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
6. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
7. WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6 INCHES OF OVERHANG, GUTTERS AND DOWNSPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. STRAPPING MUST BE TESTED AND / OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
9. STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURER'S BUILDING SYSTEM MANUAL.
10. IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE FBC. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
11. PLAN REVIEW AND INSPECTION REQUIRED BY CHAPTER 633 F.S. TO BE COMPLETED ON SITE BY LOCAL FIRE INSPECTOR.
12. THIS STRUCTURE CAN NOT BE LOCATED ON THE SEAWARD SIDE OF THE COASTAL CONSTRUCTION CONTROL LINE.
13. ALL CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THESE DRAWINGS.
14. THESE PLANS INCLUDE DESIGN FOR THE FACTORY BUILT PORTION OF THE MODULAR STRUCTURE AND PORTIONS OF THE SITE BUILT CONSTRUCTION. THESE PLANS AND DESIGN PLANS FOR ALL ELEMENTS DESIGNATED TO BE DESIGNED BY OTHERS AND/OR SITE INSTALLED MUST BE SUBMITTED TO AND REVIEWED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (DESIGNER OF RECORD) FOR COMPATIBILITY WITH THE DESIGN OF THE OVERALL BUILDING PROJECT AS REQUIRED BY THE APPLICABLE CODES AND LAWS.
15. ALL PARTIES RESPONSIBLE FOR DESIGN WORK SHALL BE QUALIFIED AND LICENSED AS REQUIRED BY THE JURISDICTIONS HAVING AUTHORITY OR SHALL RETAIN SUCH QUALIFIED AND LICENSED ENTITIES TO PERFORM SUCH WORK.
16. TRANSPORTATION AND ERECTION OF THIS BUILDING IS DESIGNED BY OTHERS. DESIGNER OF THESE PLANS HAS NOT EVALUATED ANY TRANSPORTATION AND/OR LIFTING ELEMENTS SHOWN IN THESE PLANS, THESE ITEMS MUST BE EVALUATED BY TRANSPORTATION AND ERECTION DESIGNER FOR SUITABILITY.
17. CLASS 1 OR 2 VAPOR RETARDERS REQUIRED ON THE INTERIOR SIDE OF EXTERIOR WALL IF BUILDING IS LOCATED IN CLIMATE ZONE 5.

PLUMBING NOTES:

1. THE USE OF THIS BUILDING WITHOUT THE REQUIRED PLUMBING FACILITIES IS SUBJECT TO THE APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
2. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
3. REQUIRED PLUMBING FACILITIES SHALL BE PROVIDED ON SITE WITHIN 200 FEET.

NOTES:

1. THIS BUILDING DOES NOT CONTAIN PLUMBING FACILITIES. PLUMBING FACILITIES ARE BEING PROVIDED ON SITE, SUBJECT TO LOCAL AUTHORITY HAVING JURISDICTION. MAXIMUM DISTANCE BETWEEN PROPOSED BUILDING AND THE PLUMBING FACILITIES IS 500 FEET, UNLESS PERMITTED BY IPC SECTION 403.3.3.

ACCESSIBILITY NOTES:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOMS FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATION THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (IE TOUGH LATCHES, U-SHAPED PULLS); SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH; CLOTHES RODS OR COATS HOOKS SHALL BE A MAXIMUM OF 48 INCHES ABOVE THE FLOOR (46 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHEN OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE FLOOR.
3. CONTROLS, DISPENSER, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
4. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.
5. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NO EXCEED 5 POUNDS FOR ALL SLIDING, FOLDING AND INTERIOR HINGED DOORS.
6. FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 INCH MAXIMUM. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCHES WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
7. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (IE LEVER OPERATED, PUSH TYPE , U SHAPED) MOUNTED WITH OPERABLE

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATED ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "CLOSET STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410-2.
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE THE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTION MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION ARTICLES 110.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. ALL CIRCUITS CROSSING OVER THE MODULE MATE LINE SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTORS.
8. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. 15 AND 20 AMP RECEPTACLES INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE LISTED AND LABELED AS WEATHER RESISTANT.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
10. IF REQUIRED OCCUPANT SENSORS FOR LIGHTING ARE NOT FACTORY INSTALLED THEN THEY SHALL BE SITE INSTALLED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
11. AUTOMATIC RECEPTACLE CONTROLS, IF REQUIRED, SHALL BE PROVIDED AND SITE INSTALLED PER THE REQUIREMENTS OF 2021 IECC SECTION C405.11.1 , SUBJECT TO THE REVIEW AND APPROVAL OF AUTHORITY HAVING JURISDICTION.
12. FEEDER CONDUCTOR AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL.
13. AUTOMATIC CONTROL DEVICES SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE AND SHALL EITHER BE MANUAL ON OR SHALL BE CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50% POWER.
14. OCCUPANCY SENSOR SWITCHES SHALL PROVIDE A BI-LEVEL LIGHTING CONTROL TO PROVIDE EITHER CONTINUOUS DIMMING OR AT LEAST ON INTERMEDIATE STEP IN LIGHTING POWER BETWEEN 30% AND 70% OF FULL POWER IN ADDITION TO FULL ON AND FULL OFF.
15. 15 AND 20 AMP RECEPTACLES TO BE TAMPER RESISTANT.
16. THE BUILDING'S FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION) ARE SITE INSTALLED BY OTHERS SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. THE FIRE ALARM CONTROL PANEL MUST BE INSTALLED IN A HIGHLY VISIBLE LOCATION.
17. A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
18. A MANUAL FIRE ALARM SYSTEM THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM MEETING THE REQUIREMENTS OF SECTION 907.5.5 AND INSTALLED IN ACCORDANCE WITH SECTION 907.6 MUST BE PROVIDED.

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES X 24 INCHES ADJUSTABLE WITH 20 INCHES X 10 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R-6 MINIMUM INSULATION. SUPPLY DUCTS EXPOSED TO VENTILATED ATTICS SHALL HAVE MINIMUM R-8 INSULATION IN CLIMATE ZONE 1-4 (R-12 IN ZONE 5).
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND / OR AS NOTED ON FLOOR PLAN (FOR NON-FIRE RATED DOORS).
3. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 10 CFM PER PERSON AND 0.12 CFM PER SQUARE FOOT OF BUILDING AREA.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET AND URINAL.
6. THERMOSTATS ARE TO BE PROGRAMMABLE.
7. HEATING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN TEMPERATURES ABOVE AN ADJUSTABLE HEATING SETPOINT AT LEAST 10 ° F BELOW THE OCCUPIED HEATING SETPOINT. COOLING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE MECHANICAL COOLING SYSTEM AS REQUIRED TO MAINTAIN TEMPERATURES BELOW AN ADJUSTABLE COOLING SETPOINT AT LEAST 5° F ABOVE THE OCCUPIED COOLING SET POINT OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.
8. PERMISSIBLE GAS TYPE FOR APPLIANCES: NONE (ALL ELECTRIC).
10. EXHAUST FAN OUTLET MAY NOT BE WITHIN 10 FEET FROM ANY MECHANICAL AIR INTAKE.

SITE INSTALLED ITEMS

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO THE LOCAL JURISDICTION APPROVAL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. REQUIRED PLUMBING FACILITIES, DRINKING FOUNTAINS, SERVICE SINK, BUILDING DRAINS, CLEANOUTS, AND HOOK UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE FLOOR AND ROOF DESIGN OF THIS PLAN IS "LIGHT FRAME TRUSS-TYPE CONSTRUCTIONS: AS REFERENCED IN FAC RULE 69A-3.012(6). POSTING OF NOTICE SIGN(S) AS REQUIRED BY FAC 69A-3.012(6), SHALL BE SITE INSTALLED AND IS THE RESPONSIBILITY OF THE BUILDING OWNER.
7. ALL METAL FRAMING MEMBERS SHALL BE BONDED TO THE BUILDING ELECTRICAL SYSTEM AND IS THE RESPONSIBILITY OF THE BUILDING OWNER.
8. HANDICAP TACTILE SIGNAGE
9. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINES.
10. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNIT).
11. FLORIDA FIRE PREVENTION CODE PLAN REVIEW AND INSPECTION SHALL BE PERFORMED ON SITE BY OTHERS, SUBJECT TO LOCAL APPROVAL.
12. FINAL CONTROL SYSTEMS FOR CONTROLLED RECEPTACLES SYSTEM.
13. CALL BUTTON AND PULL DOWN BAR IN ADA RESTROOM.
14. LUMINOUS EGRESS PATH LIGHTING.
15. 12" VTR ROOF EXTENSIONS.
16. ECONOMIZERS IF REQUIRED.
17. FIRE ALARM SYSTEM.
18. SPRINKLER SYSTEM (WHEN REQUIRED).
19. EXIT DOOR.

FOUNDATION:
IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION, THESE BUILDING PLANS DO NOT CONTAIN FOUNDATION SUPPORT AND TIE DOWN SYSTEM DETAILS AND SPECIFICATIONS. THE ARCHITECT / ENGINEER OF BUILDING PLANS SHOULD BE CONTACTED TO OBTAIN APPROPRIATE FOUNDATION PLANS. IF FOUNDATION PLANS ARE DESIGNED BY OTHERS, THE ARCHITECT / ENGINEER OF THE BUILDING PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN AND CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURE'S STRUCTURAL COMPONENTS AND SYTEMS RELATING THERETO.

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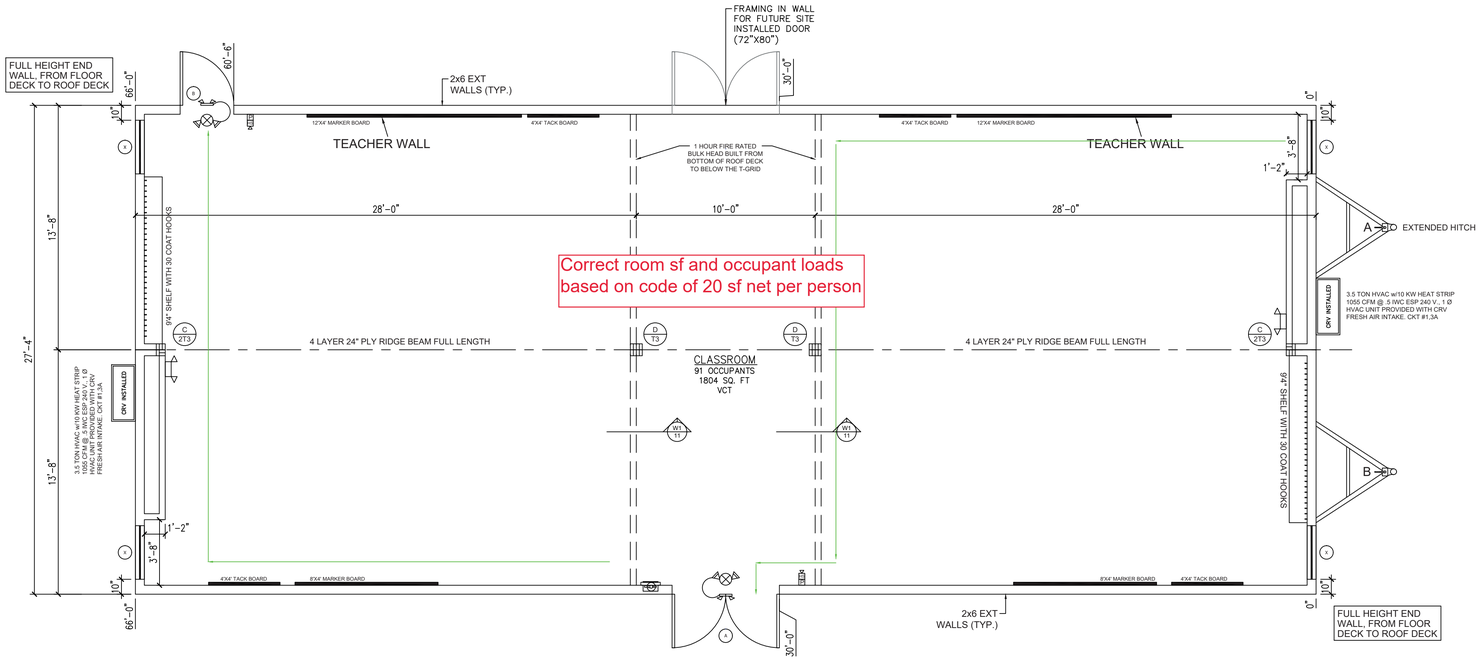


LIFE SAFETY PLAN

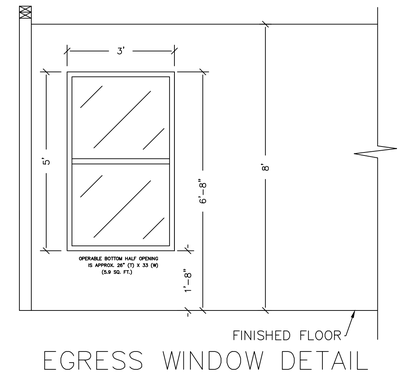
$\frac{1}{4}$"=1'-0"

DOOR SCHEDULE		WINDOW SCHEDULE	
A	7280 STEEL DOOR W/6"X30" SAFETY GLASS VIEW BLOCK - STEEL JAMB - CLOSER - PANIC HARDWARE	X	3660 - VERTICAL SLIDER EGRESS DP 50 INSULATED LOW-E TINTED GLASS - WHITE VINYL FRAME - VINYL MINI BLINDS
B	3680 STEEL DOOR W/6"X30" SAFETY GLASS VIEW BLOCK - STEEL JAMB - CLOSER - PANIC HARDWARE		

EXTERIOR DOOR AND WINDOWS TO COMPLY WITH THE FOLLOWING STANDARDS: AAMA/WDMA/CSA101/I.S.2/ A440 OR TESTED PER ASTM E330 AND BE LISTED AND LABELED AS COMPLIANT WITH NFRC 100, 300 & 400. PANIC HARDWARE TO BE LISTED AND LABELED TO COMPLY WITH UL 305.

SYMBOL LEGEND

- EXTERIOR REMOTE HEAD EMERGENCY LIGHT
- CEILING MT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MIN. CAPACITY
- WALL MOUNTED EMERGENCY LIGHT 90 MIN. CAPACITY
- J-BOX IN WALL FOR FIRE ALARM PULL STATION
- J-BOX IN WALL FOR FIRE ALARM HORN / STROBE LIGHT
- PATH OF EGRESS



EGRESS WINDOW DETAIL

LIFE SAFETY PLAN SUMMARY

1. USE / OCCUPANCY: CLASSROMS / EDUCATIONAL
2. CONSTRUCTION TYPE : VB
3. SPRINKLER SYSTEM: NO
4. BUILDING AREA: 1,804 SQ FT
5. BUILDING HEIGHT: < 15 FEET
6. NUMBER OF STORIES: 1
7. NUMBER OF MODULES : 2
8. OCCUPANT LOAD (91) BASED ON [20] SQ FT PER OCCUPANT IN CLASSROOMS
9. CORRIDOR RATING: 1 HOUR RATED WITH 20 MINUTE DOORS
10. MAXIMUM EXIT ACCESS TRAVEL DISTANCE FOUND: 57 FEET
11. MAXIMUM EXIT ACCESS TRAVEL DISTANCE ALLOWED:
    200 FEET WITHOUT SPRINKLER SYSTEM - IBC
    250 FEET WITH SPRINKLER SYSTEM - IBC
12. NUMBER OF EXIT DOORS REQUIRED: 2
13. NUMBER OF EXIT DOORS PROVIDED : 2
14. EACH EXIT DOOR (2 LOCATIONS) CAPACITY = 540 OCCUPANTS EACH.
15. REQUIRED WIDTH OF EXITS - (91x0.2") = 18.2" / PROVIDED - 108".
16. CLASSROOM PROVIDED WITH EGRESS WINDOWS AND EMERGENCY LIGHTS.

SOUTH CAROLINA

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AMERICUS, GA 31719

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 33930 6-17-24 JAMES ALLEN CHAPMAN

STATE OF SOUTH CAROLINA JOHN BODZIAK CLEARWATER, FL AR 6503 REGISTERED ARCHITECT

06/18/2024

EMC APPROVED 06 19 2024

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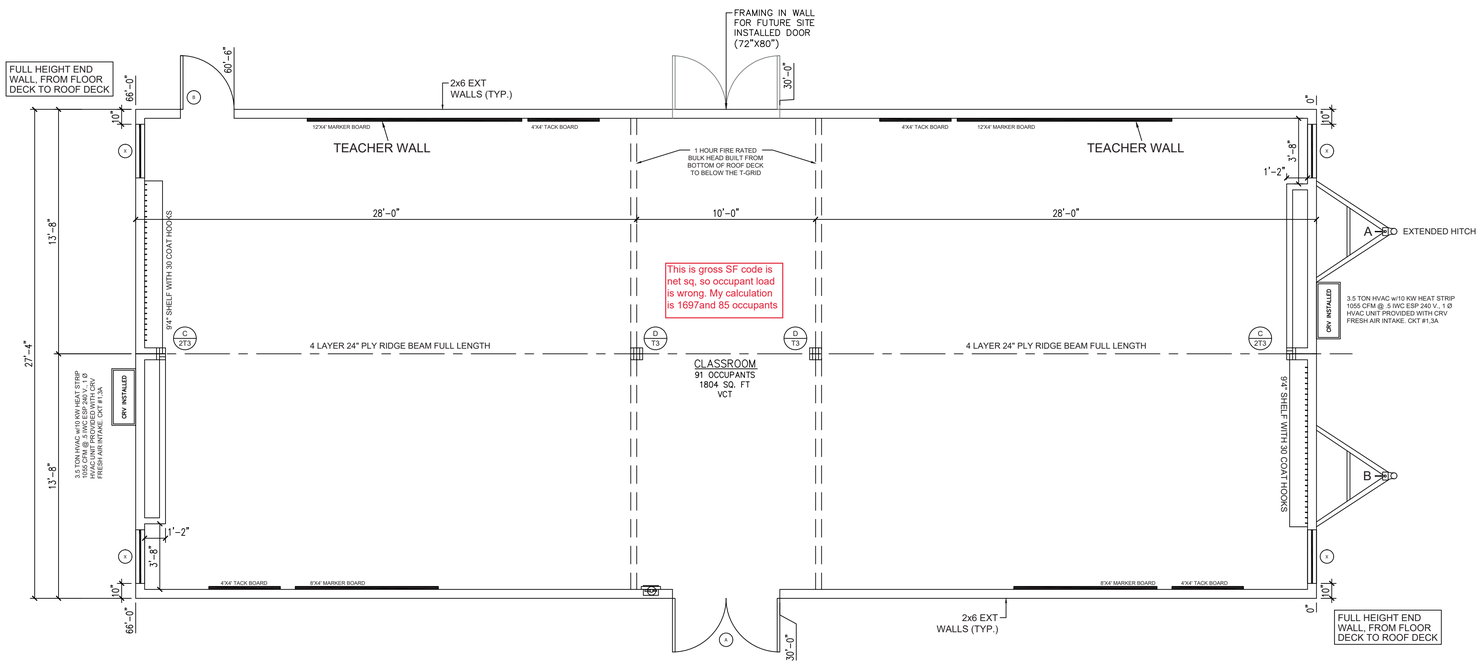
DATE: 5-10-24	ENGINEER: JAMES ALLEN CHAPMAN, P.E. AMERICUS, GA 31719
SCALE: 1/4" = 1'-0"	
CODES: SC	
DBI-11430 AB - 27'-4"x66'-0" - EDUCATION REV2	
LIFE SAFETY PLAN	PAGE: 4 / 11



FLOOR PLAN

1/4"=1'-0"

NOTE: 1 HOUR RATED BULKHEADS ARE INSTALLED TO ALLOW FOR POSSIBLE FUTURE INSTALLATION OF A 1 HOUR RATED CORRIDOR IF THE BUILDING WERE DIVIDED INTO 2 CLASSROOMS WITH A CORRIDOR BETWEEN.

DOOR SCHEDULE		WINDOW SCHEDULE	
A	7280 STEEL DOOR W/6"X30" SAFETY GLASS VIEW BLOCK - STEEL JAMB - CLOSER - PANIC HARDWARE	X	3660 - VERTICAL SLIDER EGRESS DP 50 INSULATED LOW-E TINTED GLASS - WHITE VINYL FRAME - VINYL MINI BLINDS
B	3680 STEEL DOOR W/6"X30" SAFETY GLASS VIEW BLOCK - STEEL JAMB - CLOSER - PANIC HARDWARE		

EXTERIOR DOOR AND WINDOWS TO COMPLY WITH THE FOLLOWING STANDARDS: AAMA/WDMA/CSA101/I.S.2/ A440 OR TESTED PER ASTM E330 AND BE LISTED AND LABELED AS COMPLIANT WITH NFRC 100, 300 & 400. PANIC HARDWARE TO BE LISTED AND LABELED TO COMPLY WITH UL 305.

COLUMN STUDS AND STRAPPING

INDICATES COLUMN DESCRIPTION LOCATIONS (EACH HALF)

INDICATES THE REQUIREMENT FOR A BEARING STIFFENER

INDICATES TYPE OF TIE DOWN STRAP, (SEE DESIGN PACKAGE FOR ADDITIONAL SPECIFICATIONS) LOCATIONS (QTY IS 1 UNLESS NOTED OTHERWISE)

COLUMN DESCRIPTIONS

A - 3-2"x6" SYP #2 EACH HALF
B - 2-2"x4" SYP #2 EACH HALF
C - 3-2"X4" SYP #2 EACH HALF
D - 4-2"X4" SYP #2 EACH HALF

TIE DOWN STRAPPING

T1 = 20 GA x 1.5" GALV. STEEL STRAP WITH (6) 0.148"ø x 1.5" NAILS EACH END. 2- 26 GA x 1.5" GALV STEEL STRAPS MAY BE SUBSTITUTED OR 1- 20 GA x 1.5" STRAP.
T2 = 26 GA X 1.5" GALV. STEEL STRAP WITH (7) 14 GA OR 15 GA x 1½" x 1" PENETRATION STAPLES EACH END.
T3 = 0.035" (20 GA) x 1.25" HOT-DIPPED GALV. STEEL STRAP (G60 OR BETTER) COMPLYING WITH ASTM D3953-91, Fy=108 KSI, 4725 LB. MINIMUM ULTIMATE CAPACITY, FASTENED TO RIDGE BEAM WITH (17) 0.148ø x 1.5" NAILS (Fyb= 90 KSI MIN.) AND EXTENDED CONTINUOUSLY BELOW FLOOR.

SYMBOL LEGEND

- WALL MOUNT LIGHT SWITCH SGL POLE / OCCUPANCY SENSOR
- J-BOX IN WALL (NON POWERED)
- CEILING MOUNTED J-BOX
- CEILING MOUNTED RECEPTACLE
- 120 V DUPLEX TAMPER RESISTANT RECEPTACLE
- 120 V QUADRUPLEX TAMPER RESISTANT RECEPTACLE
- 4"X4" J-BOX
- RECESSED 33 LED LIGHT FIXTURE
- 24"X24" SUPPLY AIR CEILING REGISTER
- 24"x24" RETURN AIR CEILING REGISTER
- INTERIOR MOUNT 120 / 240 V 1 Ø ELECTRICAL PANEL
- WALL MT DIGITAL 7-DAY PROGRAMMABLE THERMOSTAT W/ OCCUPANCY SENSOR
- EXTERIOR REMOTE HEAD EMERGENCY LIGHT
- CEILING MT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MIN. CAPACITY
- LED EXTERIOR VANDAL RESISTANT WALL PACK
- WALL MOUNTED EMERGENCY LIGHT 90 MIN. CAPACITY
- RECESSED FIRE EXTINGUISHER CABINET W/ 10# ABC EXTINGUISHER
- J-BOX IN WALL FOR FIRE ALARM PULL STATION
- J-BOX IN WALL FOR FIRE ALARM HORN / STROBE LIGHT

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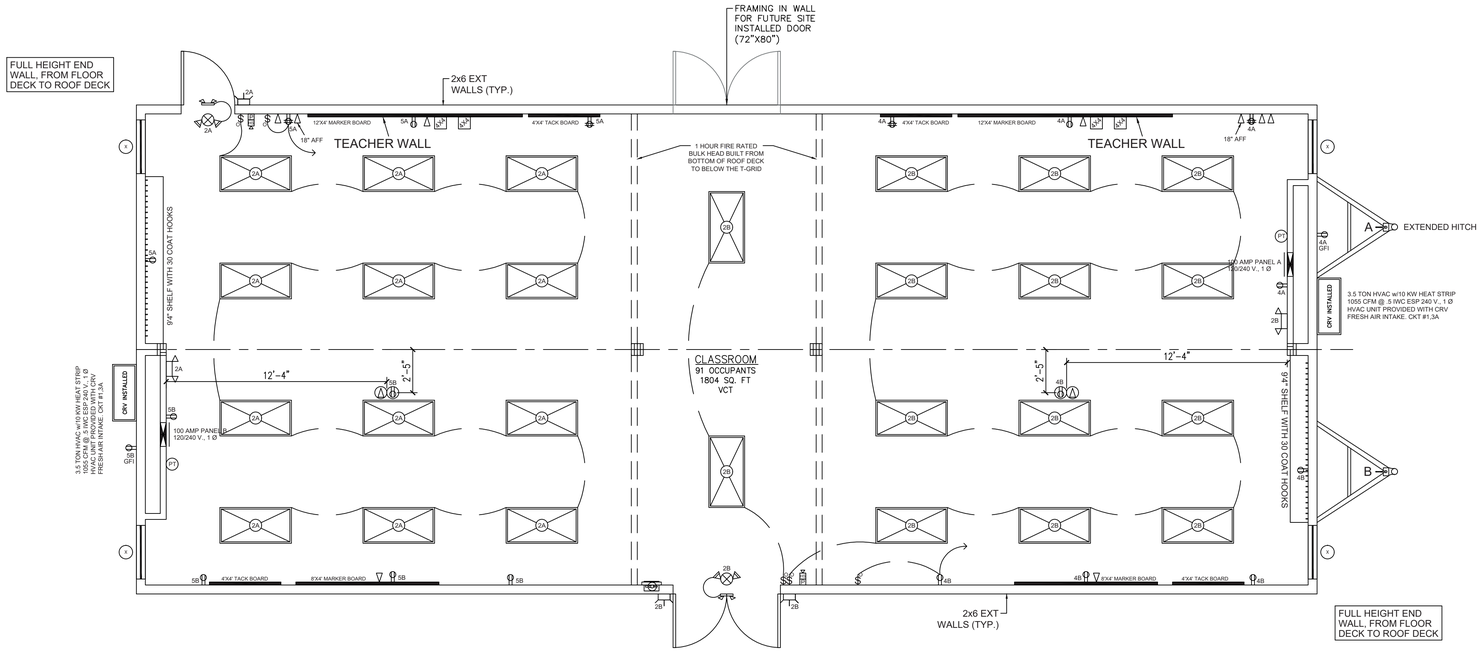
FLOOR PLAN		PAGE:	5 / 11



ELECTRICAL PLAN

$\frac{1}{4}$"=1'-0"

ELECTRICAL SIZING PANEL A	120/240V	SGL PHASE	INSTALL	100 AMP PANEL
ID	QTY	UNITS	KW	SUB-TOTAL
3.5 TON HVAC	1	EACH	13.6	13.60
WATER HEATER	0	EACH	4.5	0.00
LIGHTS	756	SQ FT	0.003	2.84
RECEPTACLES	13	EACH	0.18	2.34
EXHAUST FANS	0	EACH	0.4	0.00
DEDICATED CKTS.	0	EACH	1.9	0.00
		TOTAL =		18.78
		TOTAL =	78.2	AMPS

ELECTRICAL PANEL SCHEDULE A			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1,3 A	HVAC - 3.5 TON	60A (2P) HACR	6-6-10 MC
2 A	LIGHTS	20A	12
4, 5 A	RECEPTS	20A	12

ELECTRICAL SIZING PANEL B	120/240V	SGL PHASE	INSTALL	100 AMP PANEL
ID	QTY	UNITS	KW	SUB-TOTAL
3.5 TON HVAC	1	EACH	13.6	13.60
WATER HEATER	0	EACH	4.5	0.00
LIGHTS	1038	SQ FT	0.003	3.89
RECEPTACLES	11	EACH	0.18	1.98
EXHAUST FANS	0	EACH	0.4	0.00
DEDICATED CKTS.	0	EACH	1.9	0.00
		TOTAL =		19.47
		TOTAL =	81.1	AMPS

ELECTRICAL PANEL SCHEDULE B			
CIRCUIT ID	DESCRIPTION	BREAKER	WIRE
1,3 B	HVAC - 3.5 TON	60A (2P) HACR	6-6-10 MC
2 B	LIGHTS	20A	12
4, 5 B	RECEPTS	20A	12

MC CABLE IN CEILING,
NM CABLE REMAINDER

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- EXTERIOR REMOTE HEAD EMERGENCY LIGHT
- CEILING MT COMBO LIGHTED EXIT SIGN / EMERGENCY LIGHT 90 MIN. CAPACITY
- LED EXTERIOR VANDAL RESISTANT WALL PACK
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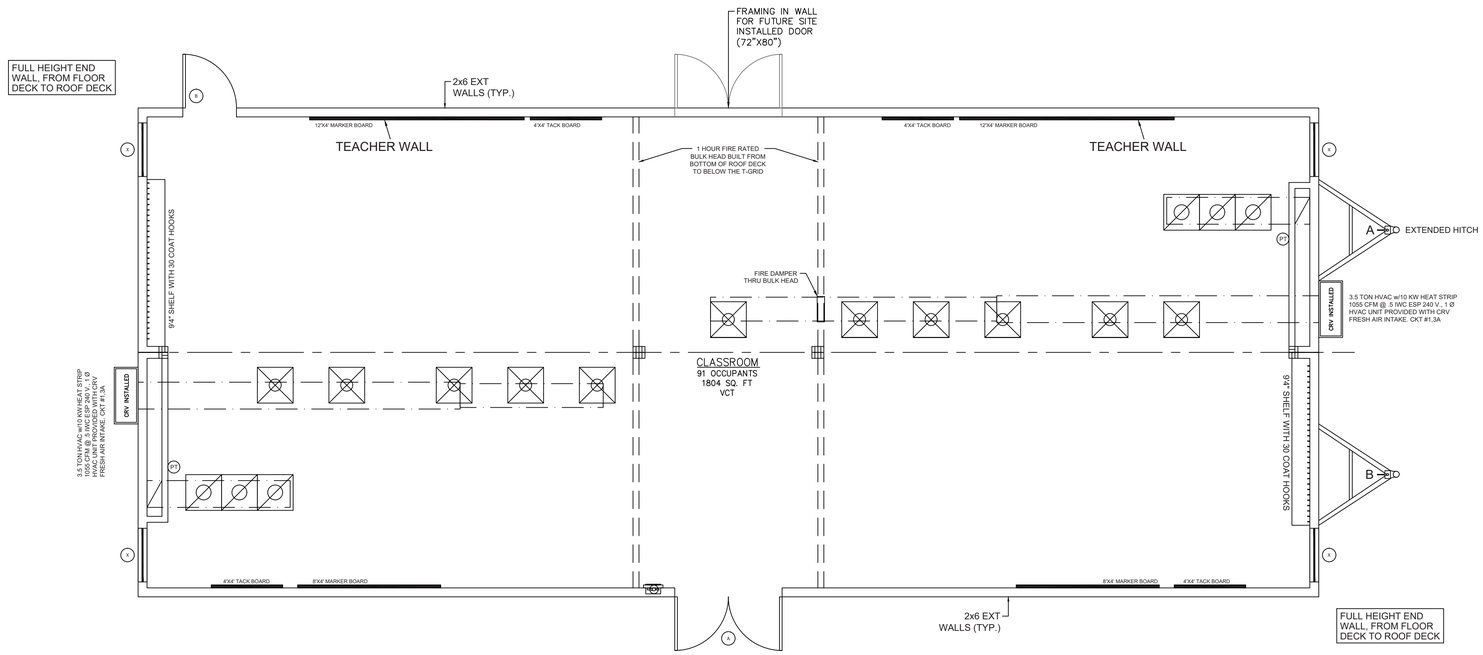
ELECTRICAL PLAN		PAGE:	6 / 11



MECHANICAL PLAN

$\frac{1}{4}$"=1'-0"

SYMBOL LEGEND

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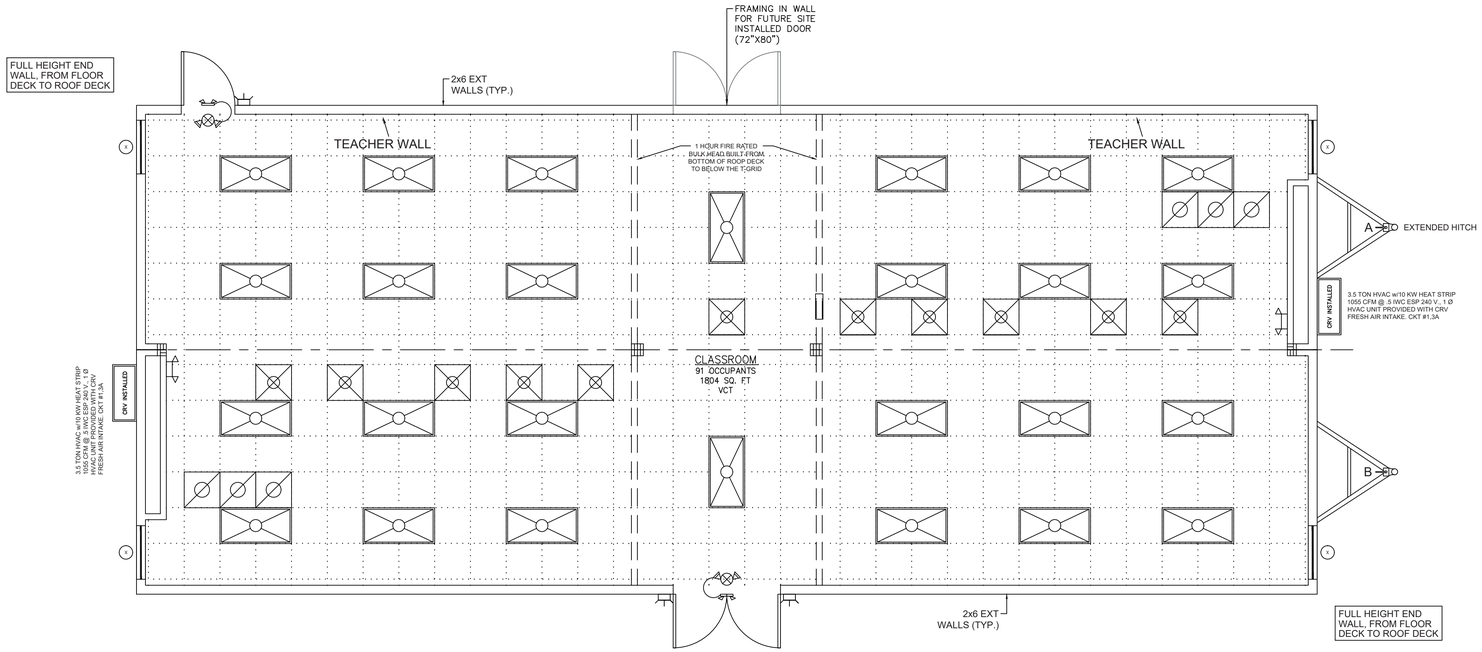
MECHANICAL PLAN		PAGE:	7 / 11



REFLECTED CEILING PLAN

$\frac{1}{4}$"=1'-0"

SYMBOL LEGEND

- $/$ — WALL MOUNT LIGHT SWITCH SGL POLE / OCCUPANCY SENSOR
- J — J-BOX IN WALL (NON POWERED)
- J — CEILING MOUNTED J-BOX
- R — CEILING MOUNTED RECEPTACLE
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- F — J-BOX IN WALL FOR FIRE ALARM PULL STATION
- J-BOX IN WALL FOR FIRE ALARM HORN / STROBE LIGHT

SUSPENDED CEILING INSTALLATION NOTES FOR SEISMIC CAT. D

1. CONTINUOUS CEILING AREAS GREATER THAN 144 SQ FT ARE SUBJECT TO THE FOLLOWING
2. 2" WIDE PERIMETER WALL ANGLE SUPPORTS SECURELY ATTACHED TO WALL FRAMING.
3. ALL MAIN RUNNERS / TEE'S TO BE HEAVY DUTY ABLE TO SUPPORT 16 LB PER LINEAR FOOT.
4. SUSPENSION WIRES TO BE MINIMUM 12 GAUGE AND SPACED NO MORE THAN 4 FEET ON CENTER ALONG MAIN RUNNERS.
5. SUSPENSION WIRE TIE OFF MUST BE WRAPPED AROUND ITSELF A MINIMUM OF 3 FULL TURNS WITHIN A 3 INCH LENGTH.
6. CROSS AND MAIN RUNNERS SHALL BE SUPPORTED WITHIN 8 INCHES OF THE ENDS AT ROOM PERIMETER.
7. SUSPENSION WIRE SHALL NOT BE MORE THAN 1 IN 6 OUT OF PLUMB UNLESS A COUNTER SLOPING SUSPENSION WIRE IS INSTALLED.
8. CONNECTION DEVICES FOR SUSPENSION WIRES SHALL BE CAPABLE OF SUPPORING 100 LBS.
9. CONTINUOUS CEILING AREAS LESS THAN 1,000 SQ FT DO NOT REQUIRE LATERAL FORCE BRACING.
10. THE UNATTACHED ENDS OF MAIN RUNNERS OR CROSS TEES AT PERIMETER SHALL BE PREVENTED FROM SPREADING (WIRE TIE, SPREADER BAR OR SLIDE CLIPS).
11. LIGHT FIXTURES WEIGHING LESS THAN 10 LBS SHALL HAVE (1) 12 GAUGE SAFETY WIRE CONNECTING THE FIXTURE TO STRUCTURAL MEMBERS ABOVE.
12. LIGHT FIXTURES WEIGHING BETWEEN 10 AND 56 LBS SHALL HAVE (2) 12 GAUGE SAFETY WIRES CONNECTING THE FIXTURE TO STRUCTURAL MEMBERS ABOVE.

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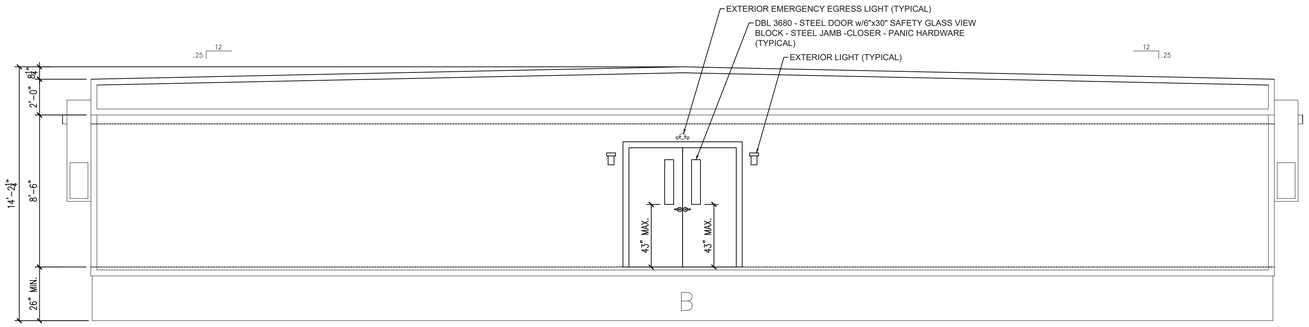
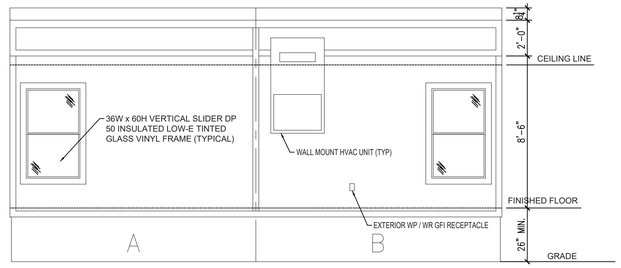
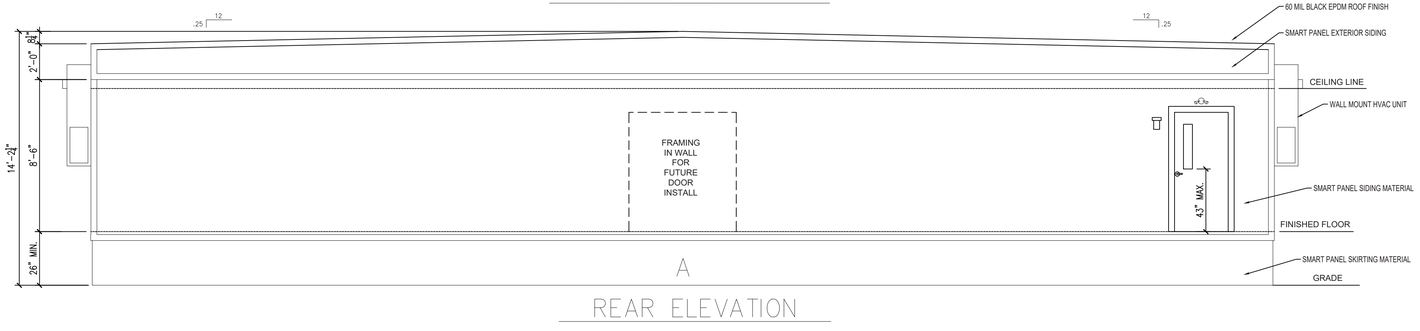
REFLECTED CEILING		PAGE:	8 / 11



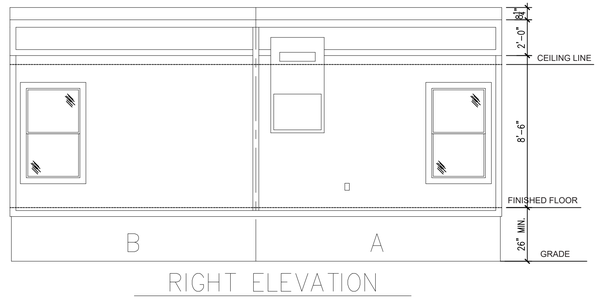
FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

ELEVATIONS

$\frac{1}{4}$" = 1'-0"

ELEVATION NOTES:

1. FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQ FT NET VENT AREA PER 1 / 150 TH OF THE FLOOR AREA, AND AN 18"x24" MINIMUM CRAWL SPACE ACCESS, INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.
2. SEE CROSS SECTION FOR METHOD OF ROOF VENTILATION.
3. ACCESSIBLE RAMP(S), STAIR(S) AND HANDRAILS ARE SITE INSTALLED , DESIGNED BY OTHERS, AND SUBJECT TO LOCAL JURISDICTION.

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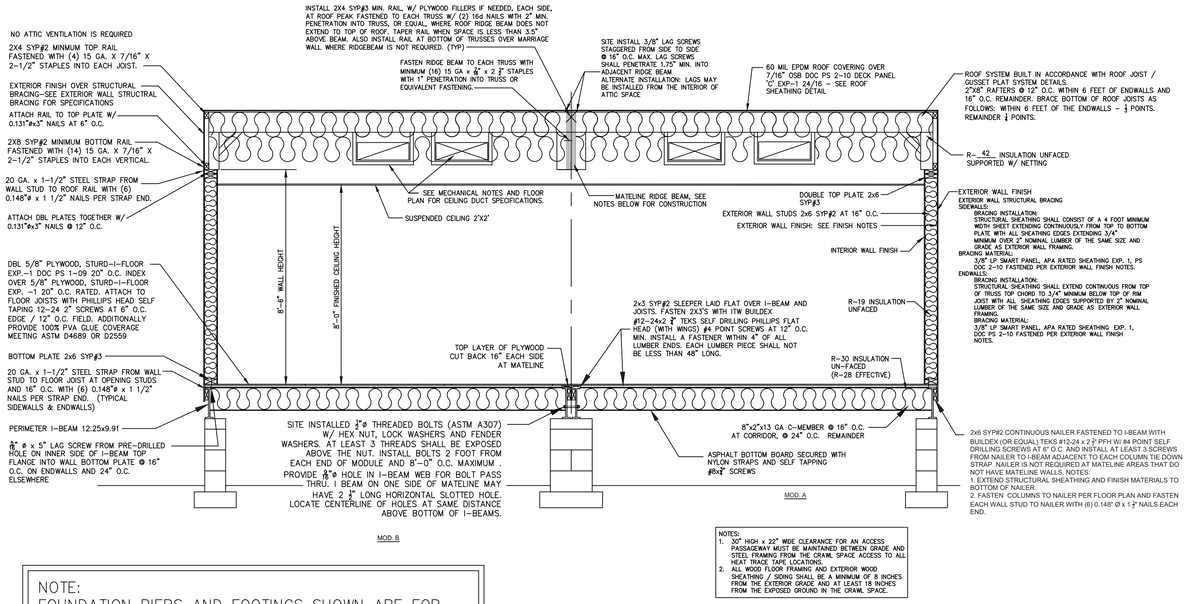
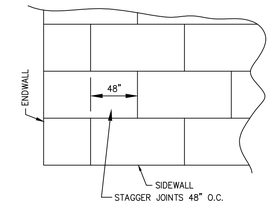


NOTE:
FOUNDATION PIERS AND FOOTINGS SHOWN ARE FOR REPRESENTATION ONLY. REFER TO FOUNDATION PLAN FOR DESIGN DETAILS.

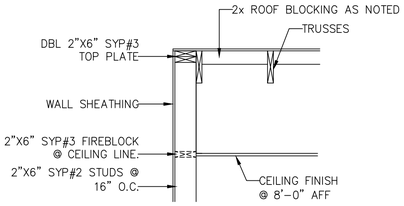
EXTERIOR WALL STRUCTURAL BRACING:
BRACING MATERIAL:
SEE CROSS SECTION NOTES.
END WALL TIE DOWN:
INSTALL AT LEAST (2) 20 GA x 1 1/2" STEEL STRAPS AT EACH END OF EACH END WALL SEGMENT THAT IS GREATER THAN 28" IN LENGTH. FASTEN EACH STRAP WITH (6) 0.148" Ø x 1 1/2" NAILS EACH END.
SIDE WALL TIE DOWN:
INSTALL AT LEAST (1) 20 GA x 1 1/2" STEEL STRAPS AT EACH END OF EACH END WALL SEGMENT THAT IS GREATER THAN 28" IN LENGTH. FASTEN EACH STRAP WITH (6) 0.148" Ø x 1 1/2" NAILS EACH END. DO NOT OVERLAP STRAPS. ADD STUDS AS NEEDED TO ACCOMMODATE ALL REQUIRED STRAPS.



7/16" OSB SHEATHING EXP 1, 24/16 TO BE FASTENED TO JOISTS/ TRUSSES WITH 8d RING SHANK NAILS AT 6" O.C. ON EDGES AND 12" O.C. IN FIELD.

THE EPDM SHALL BE ADHERED TO STANDARD 7/16" OSB RATED SHEATHING, EXP. 1, 24/16 INDEX USING MULE-HIDE FR ADHESIVE, INSTALLED IN ACCORDANCE WITH INTERTEK CODE COMPLIANCE RESEARCH REPORT CCRR-1078. THIS ASSEMBLY WILL PROVIDE A CLASS 'C' FIRE CLASSIFICATION.

ROOF SHEATHING DETAIL



END WALL FRAMING AT ROOF
N-T-S

INTERIOR FINISH MATERIALS:

CEILING: CLASS 'A' 2X2 SUSPENDED CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS, CLOSE UP BY OTHERS
WALL: 5/8" VINYL COVERED GYPSUM TYPE "X"
INTERIOR FINISHES SHALL BE CLASS 'A' FOR EXITS AND OTHER THAN EXITS SHALL BE CLASS 'A' OR 'B'.
FLOOR: VCT FLOOR
FLOOR FINISHES SHALL BE NO LESS THAN CLASS II LISTED PRODUCT

EXTERIOR FINISH MATERIALS:

ROOF: MULEHIDE 60 MIL (WHITE) EPDM FULLY ADHERED OVER 7/16" OSB DECKING W/ MULEHIDE FR ADHESIVE

WALL: 3/8" LP SMART PANEL SIDING APA RATED PANEL SIDING PER ESR-1301 FASTENED WITH 0.113" Ø x 2 1/2" GALV NAILS @ 4" O.C. EDGES & 6" O.C. FIELD. PANELS MUST BE INSTALLED WITH THE LONG DIMENSION ORIENTED IN THE VERTICAL DIRECTION. FASTENERS MUST NOT BE INSTALLED IN THE SIDING GROOVES IN THE FIELD OF THE PANEL OR AT THE EDGE OF THE PANEL WHEN THE SIDING GROOVES OCCUR AT THE CUT EDGE.

GENERAL CROSS SECTION NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL STEEL 0.230" THICK AND GREATER SHALL COMPLY WITH ASTM A36, YIELD STRENGTH 36 KSI. MATERIAL LESS THAN 0.230" THICK SHALL COMPLY WITH ASTM A1011, YIELD STRENGTH 36 KSI. STEEL USED IN THE FRAME IS STRUCTURAL STEEL.
2. STEEL TIE DOWN AND CONNECTION STRAPS SHALL COMPLY WITH ASTM A653 / A653M.
3. ALL LAG SCREWS SHALL COMPLY WITH ANSI/ASME B18.2.1. Fyb = 60 KSI MINIMUM
4. SEE FOUNDATION (WHEN PROVIDED) PLAN FOR PIER AND THE TIE DOWN ANCHORAGE LOCATIONS, ORIENTATIONS AND SPECIFICATIONS.
5. WHERE 1" STAPLES ARE SPECIFIED THIS SHALL MEAN 1" PENETRATION INTO THE HOLDING MEMBER
6. FOR TIE DOWN STRAP FASTENERS PROVIDE 3/4" MINIMUM SPACE BETWEEN ALL STAPLES AND 1" MINIMUM SPACE BETWEEN ALL NAILS UNLESS OTHERWISE PERMITTED BY STRAP MANUFACTURER'S LISTING. ALL FASTENERS SHALL BE INSTALLED IN CENTER 1/3 RD OF THE STRAP WIDTH. DO NOT INSTALL SIDE BY SIDE, IN NO CASE SHALL SPLITTING OF WOOD BE PERMITTED.
7. WHERE KRAFTBACK OR OTHER VAPOR RETARDERS ARE SPECIFIED THEY SHALL BE INSTALLED ON THE INTERIOR SIDE OF THE ASSEMBLY UNLESS OTHERWISE SPECIFIED.
8. ALL VAPOR RETARDERS ON THE EXPOSED INSULATION SHALL BE FOIL FACE TYPE VAPOR RETARDERS WITH A FLAMESPREAD RATING <25 AND SMOKE DEVELOPMENT RATING < 450.
9. SEE GENERAL NOTES ON COVER SHEET FOR INTERIOR FINISH MATERIAL RATING CLASSIFICATIONS.
10. 5/8" GYPSUM APPLIED TO THE WALLS IS INSTALLED WITH 1 1/2" NAILS AT NOT MORE THAN 8 INCHES ON CENTER AT SUPPORTS AND NOT MORE THAN 3/8" FROM EDGES AND END OF THE GYPSUM BOARD.

RIDGE BEAM CONSTRUCTION

RIDGE BEAM CONSTRUCTION:
4 LAYERS 3/4" x 24" PLYWOOD, RATED SHEATHING, EXP.-1, 48/24 INDEX, (STRUCT.1 -- 5 PLY / 5LAYER) EACH SIDE OF EACH MARRIAGE LINE CONTINUOUS FULL LENGTH OF MODULES.

NOTES:
1 PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
2 ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
3 ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD . NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
4 PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE WITH DOC PS 1-09.
5 PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE-NAILED TO ADJACENT LAYERS IN ACCORDANCE WITH PDS SUPPLEMENT #5, WITH AN ADHESIVE COMPLYING WITH ASTM D2559. SEE APPROVED PACKAGE FOR MECHANICAL FASTENER SPECIFICATIONS AND SPACING REQUIREMENTS..
6 PLYWOOD MUST NOT BE TREATED WITH A FIRE RETARDANT PROCESS.
7 MOISTURE CONTENT MUST BE 15% OR LESS AT TIME OF BEAM CONSTRUCTION.
8 RIDGE BEAMS MUST EXTEND CONTINUOUS OVER ENTIRE LENGTH OF ALL SUPPORT COLUMNS & HEADERS.
9 INSTALL 2x4 SYP#3 MINIMUM RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS & HEADER WHEN SPECIFIED ON FLOOR PLAN. STIFFENER HEIGHT SHALL NOT BE LESS THAN RIDGE BEAM HEIGHT LESS 4 INCHES. FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM WITH 100% GLUE COVERAGE AND 6- 16 GA. x 2-1/2" STAPLES.
10 PLYWOOD VALUES: E=1800 ksi. Fb = 3300 psi.

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CODES:	SC	
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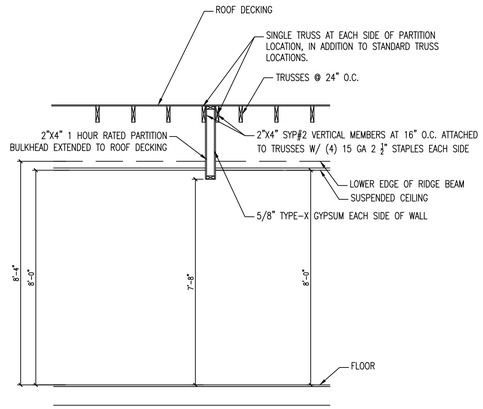
PENETRATION OF FIRE RESISTANT WALLS AND CEILINGS:

1. COMBUSTIBLE CABLES AND WIRES, COMBUSTIBLE PIPES, TUBES AND CONDUIT SHALL MEET TESTING REQUIREMENTS OF ASTM E119 AS PART OF THE FIRE RESISTANT ASSEMBLY OR SHALL HAVE THROUGH-PENETRATION FIRESTOP SYSTEMS LISTED AND TESTED AS PER ASTM EB14 AND BE TESTED AT A POSITIVE PRESSURE DIFFERENTIAL BETWEEN THE EXPOSED AND UNEXPOSED SURFACES OF NOT LESS THAN 0.01 INCH OF WATER AND HAVE AN 'F' RATING OF AT LEAST 1 HOUR BUT NOT LESS THAN THE RATING OF THE ASSEMBLY.
2. CABLES AND WIRE WITHOUT COMBUSTIBLE INSULATIONS AND NON-COMBUSTIBLE PIPES, TUBES AND CONDUITS SHALL BE PROTECTED AS DESCRIBED ABOVE OR SHALL HAVE THE ANNULAR SPACE FILLED WITH A MATERIAL MEETING THE REQUIREMENT OF ASTM E119 TESTED UNDER A POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER FOR A TIME PERIOD EQUIVALENT TO THE RATING OF THE ASSEMBLY.
3. ELECTRICAL BOXES SHALL BE METAL OR LISTED FOR USE IN FIRE RESISTANT ASSEMBLIES AND SHALL NOT EXCEED 16 SQUARE INCHES. BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
4. ALL FIRE RATED DOORS SHALL HAVE LISTED DOOR, FRAME AND HARDWARE NO LESS THAN THE TIME RATING SPECIFIED ON THE FLOOR PLAN. IN ADDITION FIRE RATED DOORS SHALL BE EQUIPPED WITH SELF CLOSING DEVICES UNLESS OTHERWISE NOTED.
5. ALL DUCT PENETRATIONS OF 1 HOUR RATED CORRIDORS MUST BE EQUIPPED WITH COMBINATION SMOKE AND FIRE DAMPERS. EXCEPTION: SMOKE DAMPERS ARE NOT REQUIRED IN CORRIDOR PENETRATION WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
6. WOOD STUD WALLS: 1 HOUR PER UL# U305 OR GYPSUM ASSOCIATION WP3520 / WP3605 - 1 LAYER OF $\frac{5}{8}$" TYPE-X GYPSUM EACH SIDE OF WALL.
7. FIRE PARTITIONS (HORIZONTAL AND VERTICAL), WHERE ACCESSIBLE, SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED W/ SIGNS OR STENCILING IN THE CONCEALED SPACE. LOCATE IDENTIFICATION WITHIN 15 FEET OF EACH END AND NO MORE THAN 30 FEET ON CENTER. LETTERS TO BE NOT LESS THAN 3 INCHES HIGH WITH A MINIMUM $\frac{3}{8}$" WIDE STROKE IN A CONTRASTING COLOR. NOTE AS "FIRE BARRIER - PROTECT ALL OPENINGS."



1 HOUR RATED PARTITION BULKHEAD DETAIL
SECTION W1

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