SPECIAL CONDITIONS AND REQUIRMENTS

- ANY SITE ADDED STRUCTURES MUST BE INDEPENDENT OF THE FACTORY BUILDING UNLESS THE ENTIRE BUILDING IS REVALUATED BY THE SITE ENGINEER.
- TYPICAL FOUNDATION LAYOUT SHOWN IN THIS PACKAGE IS TO AID THE SITE ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS. REFER TO BRACING PAGE FOR APPLICABLE BRACING/SEISMIC LOADS FOR ATTACHING THE BUILDING TO FOUNDATIONS.
- ENGINEER SEAL APPLIES ONLY TO FACTORY MANUFACTURED PORTION OF THE BUILDING. SEAL DOES NOT APPLY TO SITE INSTALLED ELEMENTS OR PORTIONS BUILT ON SITE SUCH AS, BUT NOT LIMITED TO: FOUNDATION, BRACING TIE DOWN TO FOUNDATION, EXTERIOR STEPS, OR OTHER SITE WORKS. SITE WORK MUST BE DESIGNED BY OTHERS FOR SITE CONDITIONS, UNDER LOCAL JURISDICTION.

ATTENTION LOCAL INSPECTIONS DEPARTMENT

SITE INSTALLED ITEMS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY EMC AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL. 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 LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINE(S) - (MULTI-UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
9. FIRE INSPECTION
10. GLAZED OPENING PROTECTION (SEE GENERAL NOTE NO. 8)
11. FIRE ALARM

STRUCTURAL LOAD LIMITATIONS:

FLOOR DEAD AND LIVE LOAD:
A. DEAD LOAD = 12 PSF (AVERAGE).
B. UNIFORM LIVE LOAD = 50 PSF, 100 PSF CORRIDOR
C. CONCENTRATED LIVE LOAD = 1000 LB. OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR. NOTE: UNIFORM AND CONCENTRATED LIVE LOADS ARE NOT SIMULTANEOUSLY APPLIED.

ROOF DEAD AND LIVE LOAD:
A. DEAD LOAD = 13 PSF (AVERAGE).
B. LIVE LOAD = 20 PSF.

ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 20 PSF
B. FLAT-ROOF SNOW LOAD: Pf = 20 PSF
C. SNOW EXPOSURE FACTOR: Ce = 1.0
D. SNOW IMPORTANCE FACTOR: Is = 1.1
E. SNOW THERMAL FACTOR: Ct = 1.1
F. ROOF SLOPE FACTOR: Cs = 1.0
G. SLOPED ROOF SNOW LOAD: Ps = Pf x Cs
H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-10

WIND LOAD:
A. ULTIMATE WIND SPEED (3-SEC GUST): Vult = 130 MPH
B. NOMINAL WIND SPEED (3-SEC GUST): Vasd = 100 MPH
C. RISK CATEGORY: III
D. WIND EXPOSURE CATEGORY: EXP. = C
E. INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18
F. COMPONENT & CLADDING ULTIMATE DESIGN PRESSURES (NOMINAL DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:

WALL ZONE 5: P = +/- 49.2 PSF (Pasd = +/- 29.5 PSF)
WALL ZONE 4: P = +/- 39.9 PSF (Pasd = +/- 24.0 PSF)
ROOF ZONE 3: P = - 92.9 PSF (Pasd = - 55.8 PSF)
ROOF ZONE 2: P = - 61.7 PSF (Pasd = - 37.0 PSF)
ROOF ZONE 1: P = - 36.8 PSF (Pasd = - 22.1 PSF)

SEISMIC LOAD:
A. RISK CATEGORY IS III.
B. SEISMIC IMPORTANCE FACTOR IS 1.25
C. SEISMIC SITE CLASS IS D.
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = 0.181 S1 = 0.073
Sds = 0.181 Sd1 = 0.117
E. SEISMIC DESIGN CATEGORY IS B.
F. SEISMIC FORCE RESISTING SYSTEM IS A13.
G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
H. RESPONSE MODIFICATION FACTOR R = 6.5
I. SEISMIC RESPONSE COEFFICIENT Cs = 0.00
J. DESIGN BASE SHEAR V = 16816 LBS

FLOOD LOAD:
THE MODULAR BUILDING UNITS ARE NOT DESIGNED TO BE SUBMERGED OR SUBJECT TO WAVE ACTION. IF INSTALLED IN A FLOOD PLAIN, THE MODULAR BUILDING UNITS MUST BE INSTALLED ABOVE THE MINIMUM BASE FLOOD ELEVATION DERIVED FROM APPROPRIATE FLOOD ELEVATION MAPS FOR THE BUILDING SITE OR SET ON A FOUNDATION DESIGNED FOR FLOOD LEVELS.

ROOF RAIN LOAD (IPC APPENDIX B):
A. RAIN INTENSITY: I = 4.3 INCHES/HOUR

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 14 INCHES x 14 INCHES ADJUSTABLE WITH OVERHEAD FIBERGLASS DUCT (SEE FLOOR PLAN FOR SIZES), UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R-6 MINIMUM INSULATION AND R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING.
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR UNRATED DOORS)
3. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 7.5 CFM PER PERSON.
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 AND SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL INTAKE AND EXHAUST FANS SHALL RUN CONTINUOUSLY WHILE OCCUPIED.
6. THERMOSTAT MUST BE PROGRAMMABLE

WINDOW & DOOR SPECIFICATIONS

1. DBL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE COMCHECK ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR AND SHGC.
2. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FEET OF WINDOW AREA.
3. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.3 CFM PER SQUARE FEET OF DOOR AREA.

PLUMBING NOTES:

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. FLOORS SHALL HAYEA SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES.
3. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
4. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
5. WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
6. DWV SYSTEM SHALL BE EITHER ABS OR PVC - DWV.
7. WATER SUPPLY LINES SHALL BE CPVC AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
8. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH VALVE TYPE UNLESS OTHERWISE SPECIFIED.
9. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
11. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
13. WATER, SOIL AND WASTE PIPES IN UNCONDITION SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING.
14. CUSTOMER ASSUMES ALL RESPONSIBILTY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
15. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMP LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110°F(43°C)
16. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER CODE ARE NOT PROVIDED WITHIN THE BUILDING, A HANDICAPPED ACCESSIBLE FACILITY MUST BE PROVIDED ON SITE WITHIN THE ALLOWABLE DISTANCE PER CODE. THE REQUIRED FACILITY SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY. THIS NOTE SHALL BE INDICATED ON THE DATA PLATE
17. LAVATORY FAUCETS IN STUDENT RESTROOMS MUST BE OF THE METERING TYPE.

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 CONNECTIONS AND TIE DOWN REQUIREMENTS
5. STRAPPING MUST BE TESTED AND/OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY. APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
6. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
7. THIS BUILDING IS DESIGNED FOR NORTH CAROLINA CLIMATE ZONE 3a
8. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
9. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
10. IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIRMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE NCBC.
11. A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION.
12. FOR NC INSTALLATION, REQUIRED EGRESS WINDOWS SHALL HAVE BOTTOM OF CLEAR OPENING NOT GREATER THAN 44" MEASURED FROM THE FLOOR. FOR CLASSROOMS SERVING 5TH GRADE AND LOWER THE BOTTOM OF THE CLEAR OPENING SHALL NOT BE MORE THAN 32" MEASURED FROM THE FLOOR.

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE 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 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 DISCONNECTING 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 W/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 MODULE MATING LINE(S) 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 RECEPTACLE OUTLETS INSTALLED ON THE EXTERIOR OF THE BUILDING MUST BE LISTED AND MARKED AS WEATHER RESISTANT TYPE.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
10. THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 101 AND NFPA 72 AND 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 ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. (THE FACP CANNOT BE INSTALLED IN A CLOSET OR BATHROOM).
11. TAMPER RESISTANT RECEPTS TO BE PROVIDED IN ALL EDUCATION BUILDINGS.

N.C. INSTALLATION INSTRUCTIONS

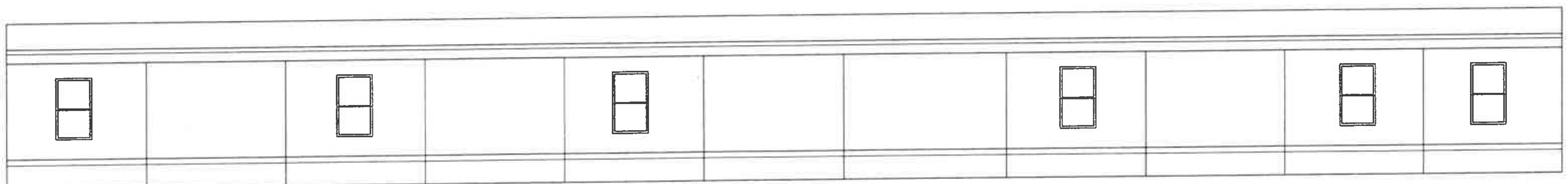
ATTENTION LOCAL INSPECTIONS DEPARTMENT

INSTALLATION INSTRUCTIONS FOR THIS MODULAR BUILDING ARE INCLUDED BY ATTACHMENT TO THESE PLANS. ANY PLANS SET WHICH DOES NOT CONTAIN AN ATTACHMENT ENTITLED "INSTALLATION INSTRUCTIONS" IS INCOMPLETE. REFER TO THE FOLLOWING SECTIONS OF THE PLAN SET AND INSTALLATION FOR IMPORTANT INFORMATION CONCERNING THE INSTALLATION OF THE MODULAR BUILDING.

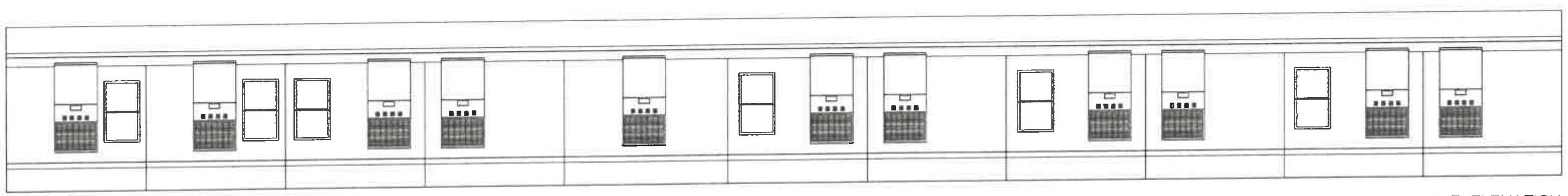
1. THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROOF SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET.
2. BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
3. ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.3, E2.0, E2.1, E2.2, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
4. MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.0, E2.4, E2.8 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE)
5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.1, E1.2, E2.3, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
6. FIRE BLOCKING SHALL BE PROVIDED PER SECTION 717.2 AND 1406.2.3 OF THE N.C. BUILDING CODE (AS APPLICABLE).
7. AIR INFILTRATION AT MODULE MATE LINES SHALL BE LIMITED BY INSTALLING SILL TAPE ALONG THE MATE LINES DURING SET UP AND/OR BY INSTALLING CONTINUOUS SHEATHING ACROSS THE MATE LINE JOINTS AFTER SET UP.

ACCESSIBILITY NOTES:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
3. 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 (I.E. TOUCH 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 COAT 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 KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
4. CONTROLS, DISPENSERS, 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.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.
6. 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 NOT EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR HINGED DOORS.
7. 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 MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL.
9. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
10. ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. KNEE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE, AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESIBLE FAUCETS (I.E. LEVER-OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
13. MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 38 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
16. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER - OPERATED, PUSHTYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
17. TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.
18. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVTORIES.



LEFT ELEVATION



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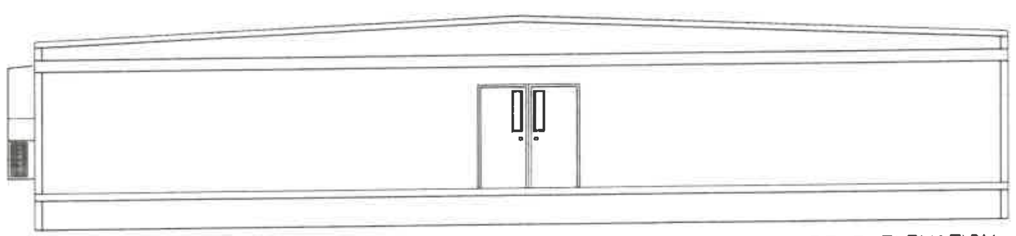
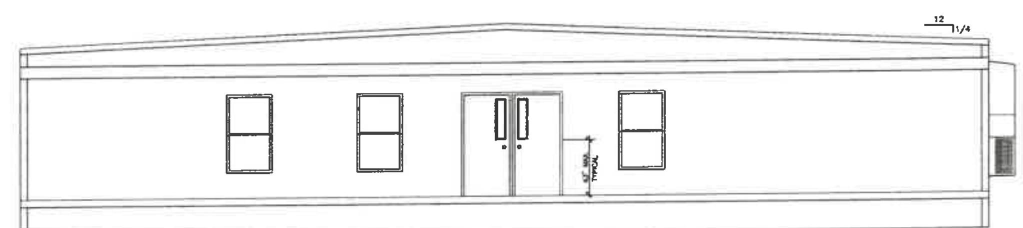


REAR ELEVATION



FRONT ELEVATION

R. JOHNSON
APPROVED
05 17 2023

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILTY	ENERGY CODE
N. CAROLINA	NCBC 2018 2018 NCFPC	2020 N.C. ELECT. CODE	2018 NCMC	2018 NCPC	NCBC 2018 CHPT. 11 AND ICC/ANSI A117.1-2009	2018 NC ENERGY CODE

ELEVATION NOTES: TYPICAL

SEE-CROSS SECTION FOR METHOD OF ROOF VENTILATION

ACCESSIBLE RAMP(S), STAIR(S), AND HANDRAILS ARE SITE INSTALLED, DESIGNED BY OTHERS, AND SUBJECT TO LOCAL JURISDICTION.

FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA, AND AN 18" x 24" MINIMUM CRAWL SPACE ACCESS. SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.

ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS & ARE NOT INTENEDED TO BE ALL INCLUSIVE NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BLDG.. SITE BUILT STOOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE CODES. COMPLIANCE WITH ALL APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET

BUILDING DESIGN PARAMETERS

1. USE/OCCUPANCY: EDUCATION
2. AGE GROUP: [illegible]
3. CONSTRUCTION TYPE: VB
4. SPRINKLER SYSTEM: NO
5. BUILDING AREA: 8341 S.F.
6. BUILDING HEIGHT: [illegible]
7. NUMBER OF STORIES: 1
8. NUMBER OF MODULES: 11
9. OCCUPANT LOAD [illegible]
10. EXTERIOR WALL FIRE RATING: NOT RATED
11. THE BUILDING MUST BE INSTALLED WITH THE FIRE SEPERATION DISTANCES [illegible]
12. ENERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS
13. MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

CONSULTING ENGINEER: KENNETH EARL DUNMON — 195 TOMMY HOOKS RD. — AMERICUS, GEORGIA 31709 — 229-942-2020

NORTH CAROLINA PROFESSIONAL SEAL 017400 ENGINEER KENNETH E. DUNMON 5-17-23

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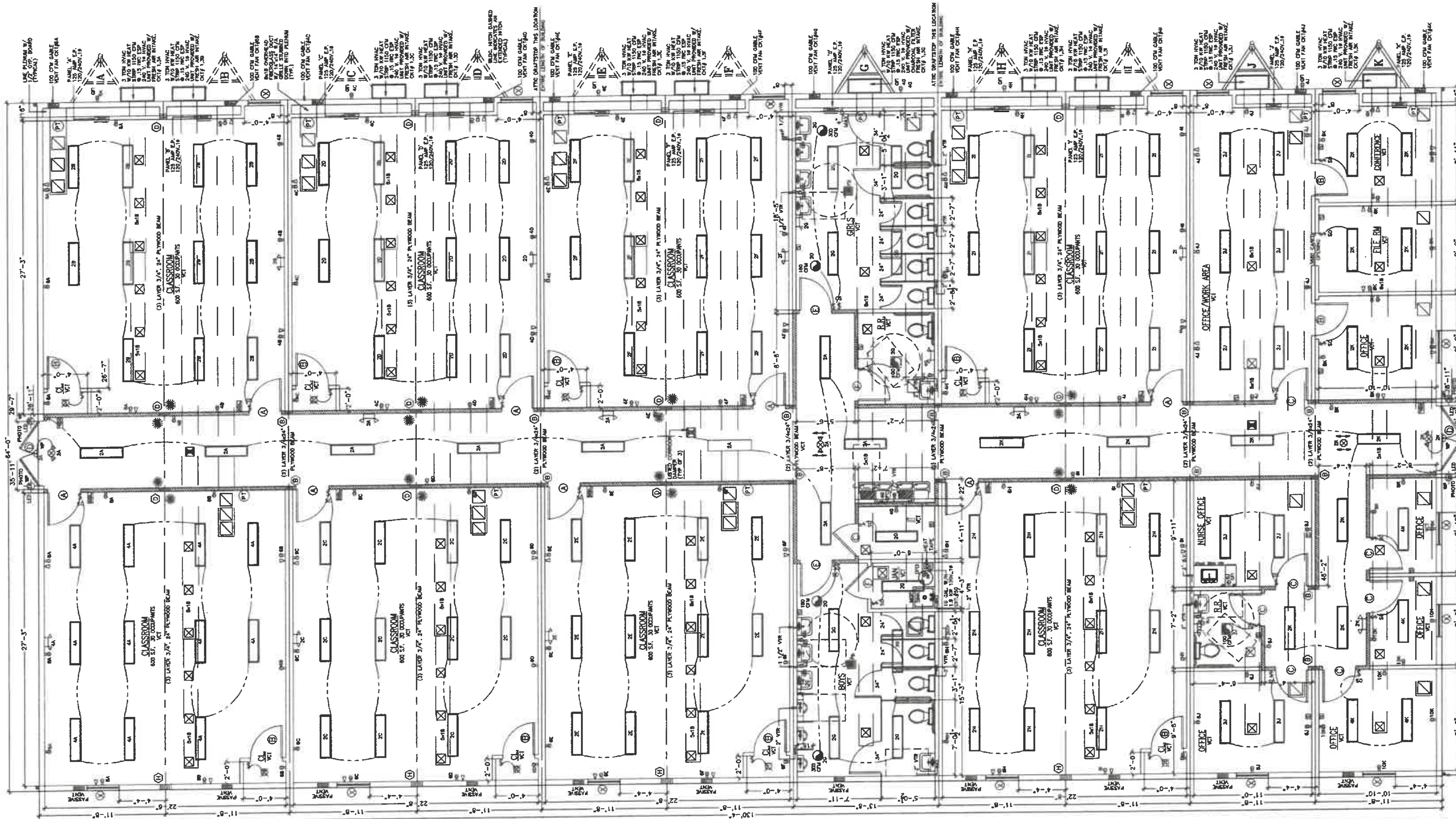
DATE: 4-18-23	REVISIONS:
SCALE: NO SCALE	
CODES: SEE NOTES	
STATES: NC	K.E.D.
REFERENCE: 10735	
DBI10735 A-K 130'-4" x 64'-0" EDUCATION	SHEET 1 OF 4
COVER SHEET	DESTINATION: GOLDSBORO



ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	[illegible]	[illegible]
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	15 A	14-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
.0030 KW/SF X 636 SF X 1.25=		2.4
10 RECEPTS AT 180VA/1000=		1.8
WATER HEATER 1.5 KW x 1.25 =		-
1 FANS @ .3 KW X 1.25=		.4
HVAC		10.5

TOTAL 15.1 KW
TOTAL/240 X 1000= 63 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	[illegible]	[illegible]
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2, 4	LIGHTING	15 A	14-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
.0030 KW/SF x 1182 SF X 1.25=		4.5
11 RECEPTS AT 180VA/1000=		2.0
WATER HEATER 1.5 KW x 1.25 =		-
1 FANS @ .3 KW X 1.25=		.4
HVAC		10.5

TOTAL 17.4 KW
TOTAL/240 X 1000= 73 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'D'

ELECTRICAL PANEL SIZING: PANEL 'D' — .0030 KW/SF X 636 SF X 1.25= 2.4; 11 RECEPTS AT 180VA/1000= 2.0; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 15.3 KW; TOTAL/240 X 1000= 64 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'C'

ELECTRICAL PANEL SIZING: PANEL 'C' — .0030 KW/SF X 636 SF X 1.25= 2.4; 11 RECEPTS AT 180VA/1000= 2.0; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 15.3 KW; TOTAL/240 X 1000= 64 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'F'

ELECTRICAL PANEL SIZING: PANEL 'F' — .0030 KW/SF X 636 SF X 1.25= 2.4; 10 RECEPTS AT 180VA/1000= 1.8; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 15.1 KW; TOTAL/240 X 1000= 63 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'E'

ELECTRICAL PANEL SIZING: PANEL 'E' — .0030 KW/SF X 636 SF X 1.25= 2.4; 12 RECEPTS AT 180VA/1000= 2.2; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 15.5 KW; TOTAL/240 X 1000= 64 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'H'

ELECTRICAL PANEL SIZING: PANEL 'H' — .0030 KW/SF X 636 SF X 1.25= 2.4; 11 RECEPTS AT 180VA/1000= 2.0; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 15.3 KW; TOTAL/240 X 1000= 64 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'G'

ELECTRICAL PANEL SIZING: PANEL 'G' — .0030 KW/SF X 722 SF X 1.25= 2.8; 8 RECEPTS AT 180VA/1000= 1.5; WATER HEATER 1.5 KW x 1.25 = 2.4; 4 FANS @ .3 KW X 1.25= 2.4; HVAC 10.5
TOTAL 19.6 KW; TOTAL/240 X 1000= 82 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'J'

ELECTRICAL PANEL SIZING: PANEL 'J' — .0030 KW/SF X 636 SF X 1.25= 2.4; 15 RECEPTS AT 180VA/1000= 2.9; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 16.2 KW; TOTAL/240 X 1000= 68 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'I'

ELECTRICAL PANEL SIZING: PANEL 'I' — .0030 KW/SF X 636 SF X 1.25= 2.4; 11 RECEPTS AT 180VA/1000= 2.0; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 15.3 KW; TOTAL/240 X 1000= 64 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

ELECTRICAL SCHEDULE 'K'

ELECTRICAL PANEL SIZING: PANEL 'K' — .0030 KW/SF X 1013 SF X 1.25= 3.8; 22 RECEPTS AT 180VA/1000= 4.0; WATER HEATER 1.5 KW x 1.25 = -; 1 FANS @ .3 KW X 1.25= .4; HVAC 10.5
TOTAL 18.7 KW; TOTAL/240 X 1000= 78 AMPS; INSTALL 125 AMP PANEL; 120/240 V 1Ø

WINDOW SCHEDULE

EXTERIOR:
36"x60" VERTICAL SLIDER +50/-50 DP INSULATED LOW-E, WHITE VINYL FRAME, TINTED GLASS
OPENING: 30.375" x 27" = 5.7 S.F.

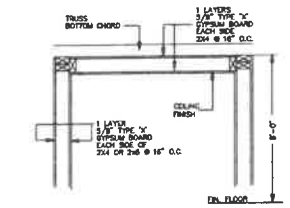
PENETRATIONS OF FIRE RESISTANT WALLS AND CEILING

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 [illegible] THAN THE RATING OF THE ASSEMBLY.
2. CABLES AND WIRES WITHOUT COMBUSTIBLE INSULATIONS AND NONCOMBUSTIBLE 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 [illegible] 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 CEILING FIXTURES SHALL BE SURFACE MOUNTED.
5. DUCTS PENETRATING FIRE RESISTANT CEILINGS SHALL HAVE AN ACCESSIBLE LISTED FIRE DAMPER LOCATED AT THE CEILING LINE.
6. 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 AND POSITIVE LATCHING HARDWARE.

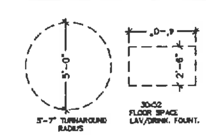
WOOD STUD WALLS: (2x4 AND 2x6) — 1 HOUR PER GA FILE NO. [illegible]; 1 LAYER 5/8" TYPE "X" GYPSUM EACH SIDE OF WALL.
DROP CEILING — 1 HOUR PER GA FILE NO. [illegible]

7. CORRIDOR DAMPERS MUST BE FIRE AND SMOKE DAMPERS IN ACCORDANCE WITH SECTION 717.5.4.1 FOR ALL LOCATIONS THAT ADOPT THE 2015 & 2018 IBC
8. ALL PENETRATIONS ON 1 HOUR RATED CORRIDOR WALLS AND CEILING SHALL BE FIRE CAULKED WITH METACAULK 1000 OR EQUAL
9. ALL WALL TO WALL AND WALL TO CEILING JOINTS IN THE 1 HOUR RATED CORRIDOR WALLS AND CEILING SHALL BE FIRE CAULKED WITH METACAULK 1000 OR EQUAL

NOTE:
VISION PANELS IN 20 MIN. RATED DOORS MUST COMPLY WITH THE FOLLOWING REQUIREMENTS
A. THE GLAZING MUST BE SAFETY GLAZED
B. THE GLAZING MUST BE 20 MINUTE RATED
C. THE BOTTOM OF THE GLAZED PANEL MUST BE A MAXIMUM OF 43 INCHES ABOVE FINISHED FLOOR.



ONE HOUR CONSTRUCTION



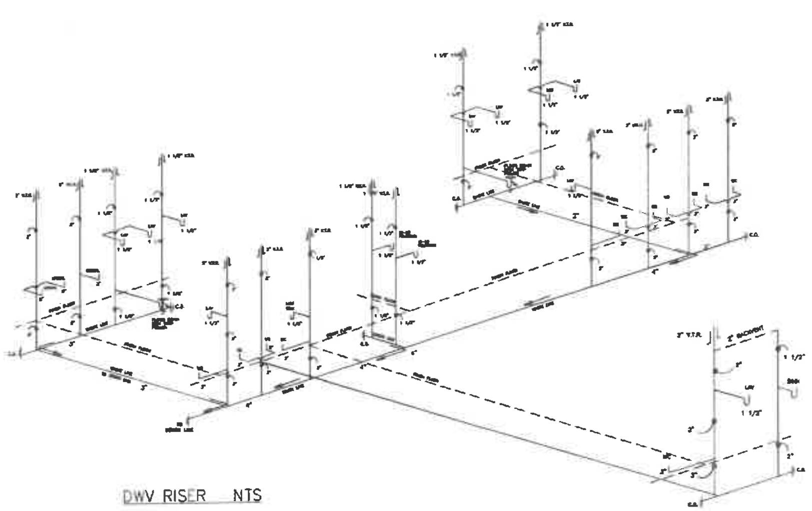
SYMBOL	DOOR SCHEDULE	TOTAL
A	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK WITH 4"x24" VIEW BLOCK, SAFETY GLASS, LEVER	8
B	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME, LEVER	10
C	36"X80" 20 MINUTE FIRE-RATED IMPERIAL OAK, LEVER	8
D	72"X80" STEEL/STEEL W/4"X24" VIEW PANEL PANIC HARDWARE	2
E	36"X80" 20 MINUTE FIRE-RATED IMPERIAL OAK PUSH/PULL WITH LATCH	2
F	36"X80" 20 MINUTE FIRE-RATED IMPERIAL OAK, PRIVACY LEVER	2

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"X60" VERTICAL SLIDE, INSULATED BRONZE/TINTED	15

SYMBOLS

1-ROOMS ONLY

- P — FIRE ALARM PULL STATION
- H — FIRE ALARM HORN/STROBE
- S — FIRE ALARM STROBE LIGHT
- JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V
- PORCH LIGHT WITH 1- 13 W. BULB
- LED PORCH LIGHT LIGHT 1-13 W. BULB
- HIGH PRESSURE SODIUM LIGHT
- METAL HALIDE WALL PACK
- VENT FAN
- COMB. VENT FAN & 130. LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2-150W BULBS
- THERMOSTAT
- FLOUR. LIGHT FIXTURE WITH 32W. T-8
- LED EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
- LED EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT SIGN W/BATTERY BACKUP
- LED EMERGENCY LIGHT WITH BATTERY BACKUP
- TELEPHONE JACK
- SWITCH & 3 WAY SWITCH
- OCCUPANCY SENSOR SWITCH
- F.E. — FIRE EXTINGUISHER

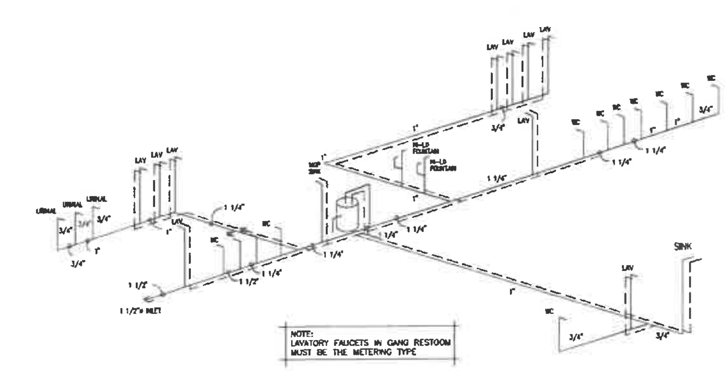


DWV RISER NTS

DWV RISER NOTES:

1. THE DWV RISER INDICATES ONE METHOD OF INSTALLING THE BELOW THE FLOOR PIPING. OTHER APPROVED METHODS MAY BE USED AS NEEDED TO ACCOMMODATE THE ACTUAL SITE CONDITIONS.
2. ALL BELOW FLOOR PIPING AND FITTINGS ARE TO BE SUPPLIED AND INSTALLED ON SITE BY OWNERS.
3. 1 1/2 INCH AND 2 INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/4 INCH PER FOOT.
4. 3 AND 4 INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/8 INCH PER FOOT.
5. BELOW FLOOR HORIZONTAL DRAIN LINES ARE 3 INCH MINIMUM DIAMETER UNLESS INDICATED OTHERWISE.
6. A MAXIMUM OF 3 WATER CLOSETS MAY DISCHARGE INTO A 3 INCH LINE.
7. CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS AS INDICATED IN TABLE [illegible]. VERTICAL TO HORIZONTAL AND HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION ARE TO BE MADE WITH LONG SWEEP FITTINGS.

SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.
—— COLD
— — — HOT
ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.



NOTE:
LAVATORY FAUCETS IN GANG RESTOOM MUST BE THE METERING TYPE

SUPPLY RISER

R. JOHNSON
APPROVED
05 17 2023

COLUMN STRAPPING SCHEDULE:

- (A) (2) 2x4 SPF #2 THIS HALF. (B) (2) 2x4 SPF #2 EACH HALF
- (C) (3) 2x4 SPF #2 THIS HALF. (D) (3) 2x4 SPF #2 EACH HALF.
- (E) (4) 2x4 SPF #2 THIS HALF. (F) (4) 2x4 SPF #2 EACH HALF.
- (G) (5) 2x4 SPF #2 THIS HALF. (H) (2) 2x6 SPF #2 EACH HALF.
- ● WITH RIDGE BEAM BEARING STIFFENER

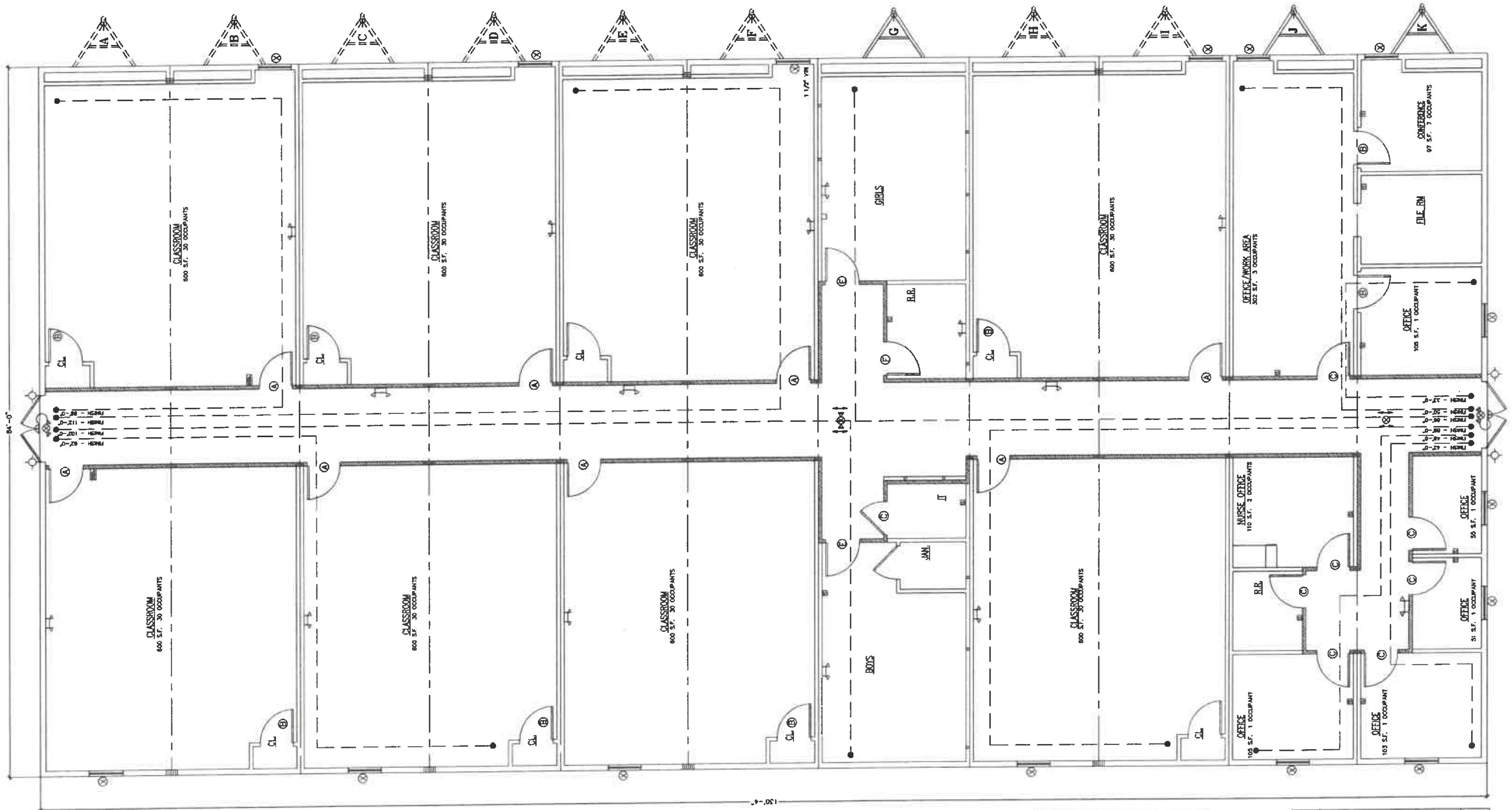
NOTES:
1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

CONSULTING ENGINEER | KENNETH EARL DUNMON — 195 TOMMY HOOKS RD. — AMERICUS, GEORGIA 31709 — 229-942-2020

NORTH CAROLINA PROFESSIONAL SEAL 017400 5-17-23 ENGINEER KENNETH E. DUNMON

DIAMOND BUILDERS INC.
P.O. BOX 2200
DOUGLASS, GEORGIA 31534
440 THOMPSON DR
(912) 384-7080

DATE: 4-18-23
SCALE : 3/16"=1'-0"
CODES: SEE NOTES
STATES: NC
REFERENCE: 10735
REVISIONS:
K.E.D.
DBI10735 A-K
130'-4" x 64'-0" EDUCATION
FLOOR PLAN
DESTINATION: GOLDSBORO
SHEET 2 OF 4



WINDOW SCHEDULE

EXTERIOR:

36"x60" VERTICAL SLIDER +30/-30 DP INSULATED LOW-E, WHITE VINYL FRAME, TINTED GLASS

OPENING: 30.375" x 27" = 6.7 S.F.

LIFE SAFETY PARAMETERS

1. USE/OCCUPANCY: EDUCATION
2. AREA: 8341 S.F.
3. OCCUPANT LOAD:
   OCCUPANT LOAD 257 BASED ON 20 NET SF/PERSON IN CLASSROOMS, 15 NET SF/PERSON IN CONFERENCE ROOM AND 100 SF/PERSON ELSEWHERE

NOTE:
EACH EXIT DOOR IS ABLE TO ACCOMMODATE:

(2) 72x80 DOOR: 64" CLEAR WIDTH EACH DOOR
64/0.20 = 320 EACH (2) TOTAL DOORS
640 PERSON TOTAL CAPACITY

NUMBER OF EXITS: REQUIRED: 2 PROVIDED: 2

SYMBOL	DOOR SCHEDULE	TOTAL
A	36"X80" 20 MINUTE FIRE-RATED IMPERIAL OAK WITH 4"X24" VIEW BLOCK, SAFETY GLASS, LEVER	8
B	36"X80" SOLID CORE IMPERIAL OAK W/REDFRAME, LEVER	10
C	36"X80" 20 MINUTE FIRE-RATED IMPERIAL OAK, LEVER	8
D	72"X80" STEEL/STEEL W/4"X24" VIEW PANEL PANIC HARDWARE	2
E	36"X80" 20 MINUTE FIRE-RATED IMPERIAL OAK PUSH/PULL WITH LATCH	2
F	36"X80" 20 MINUTE FIRE-RATED IMPERIAL OAK, PRIVACY LEVER	2

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"X60" VERTICAL SLIDE, INSULATED BRONZE/TINTED	15

EMC
R. JOHNSON
APPROVED
05 17 2023

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DBI10735 A-K 130'-4" x 64'-0" EDUCATION		SHEET 3 OF 4
LIFE SAFETY	DESTINATION: GOLDSBORO	

INTERIOR FINISH MATERIAL:

CEILING – 1/2" GYP. BOARD INSTALLED PER MANUFACTURERS SPECIFICATIONS, (SEASPRAY FINISH)

WALLS – 5/8" TYPE 'X' GYPSUM BOARD (VCG THROUGH OUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS

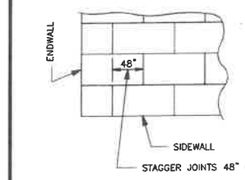
FLOOR – SEE FLOOR PLAN

NOTE:
INTERIOR WALL AND CEILING FINISH SHALL BE CLASS B OR BETTER IN IN CORRIDORS AND CLASS C OR BETTER IN ROOMS AND ENCLOSED SPACES. FLOOR FINISHES SHALL BE CLASS II OR BETTER.

EXTERIOR FINISH MATERIAL:

ROOF – MULE-HIDE 45 MIL (BLACK) EPDM (ESR-1463) FULLY ADHERED TO 7/16" OSB OR 1/2" PLYWOOD WITH MULE-HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCRR-1078 (CLASS C ROOF)

WALL – 7/16" HARDI PANEL SIDING OVER APPROVED MOISTURE BARRIER INSTALLED PER MANUFACTURERS SPECIFICATIONS.



ROOF SHEATHING TO BE FASTENED TO TRUSSES W/0.099"ø x 2" NAILS AT 6" O.C. ON EDGES & 6" O.C. IN THE FIELD ON ALL ZONES

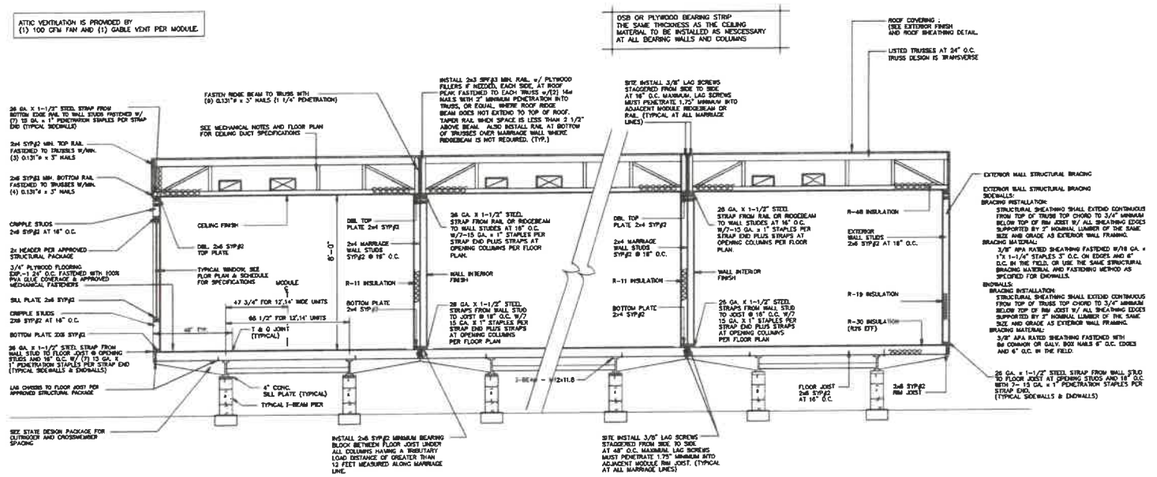
ROOF SHEATHING DETAIL

APPROVED TRUSS DESIGN:

TRUSS MANUFACTURER: S.W. GEORGIA WHOLESALE

TRUSS DRAWING # SW-FT27100

TRUSS DRAWING # SW-FT28100



GENERAL CROSS-SECTION NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
2. ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1. Fyg= 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

RIDGE BEAM CONSTRUCTION:

(SEE FLOOR PLAN) 3/4" PLYWOOD, RATED SHEATHING, EXP.-1, STRUCT.-1, 6 PLY/3 LAYER, 48/24 EACH HALF CONTINUOUS ENTIRE LENGTH OF CLEARSPAN.

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 OF PLYWOOD THICKNESS ARE PERMITTED.
4. PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS 1-95.
5. PLYWOOD LAMINATIONS IN EACH HALF OF THE JOINTS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/TCPI SUPPLEMENT #5, W/ AN ADHESIVE COMPLYING W/ASTM D2559 (SEE APPROVED PACKAGE FOR MECHANICAL FASTENER SPECIFICATIONS & SPACING REQUIREMENTS
6. PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
7. MOISTURE CONTENT MUST BE LESS THAN 18%.
8. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
9. INSTALL (2)(4) X 20" SPF#3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS, WHEN SPECIFIED ON FLOOR PLAN. FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM W/ 100% GLUE COVERAGE AND (8) 16 GA. X 2-1/2" STAPLES.

R. JOHNSON
APPROVED
05 17 2023

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CROSS SECTION	DESTINATION: GOLDSBORO