

N.C. STRUCTURAL LOAD LIMITATIONS:

FLOOR LIVE LOAD:
A. 40 PSF
B. 1000# CONCENTRATED LOAD OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 30 PSF
B. SNOW LOAD:
C. GROUND SNOW LOAD: Pg = 40 PSF
D. FLAT-ROOF SNOW LOAD: Pf = 30.8 PSF
E. SNOW EXPOSURE FACTOR: Ce = 1.0
F. SNOW IMPORTANCE FACTOR: Is = 1.1
G. SNOW THERMAL FACTOR: Ct = 1.0
H. ROOF SLOPE FACTOR: Cs = 1.0
I. SLOPED ROOF SNOW LOAD: Ps = Pt x Cs
J. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-10.

WIND LOAD:
A. ULTIMATE WIND SPEED (3-SEC GUST): Vuft = 150 MPH
B. NOMINAL WIND SPEED (3-SEC GUST): Vnom = 116 MPH
C. RISK CATEGORY: II
D. WIND EXPOSURE CATEGORY: C
E. INTERNAL PRESSURE COEFFICIENT: Gcpi = 0.16
F. COMPONENT & CLADDING ULTIMATE DESIGN PRESSURES (NOMINAL DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:
WALL ZONE 5: Puft = +/-65.6 PSF (Pabd = +/-39.3 PSF)
WALL ZONE 4: Puft = +/-53.1 PSF (Pabd = +/-31.9 PSF)
ROOF ZONE 3: Puft = -123.7 PSF (Pabd = -74.2 PSF)
ROOF ZONE 2: Puft = -82.2 PSF (Pabd = -48.3 PSF)
ROOF ZONE 1: Puft = -49.0 PSF (Pabd = -29.4 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 IS II.
B. SEISMIC IMPORTANCE FACTOR IS 1.0
C. SEISMIC SITE CLASS IS D.
D. SPECTRAL RESPONSE COEFFICIENTS: Sg = 0.537 Sd1 = 0.285 Sds = 0.49 Sd1 = 0.19
E. SEISMIC DESIGN CATEGORY IS C.
F. SEISMIC FORCE RESISTING SYSTEM IS A15.
G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
H. RESPONSE MODIFICATION FACTOR R = 6.5.
I. SEISMIC RESPONSE COEFFICIENT Cs = 0.08
J. DESIGN BASE SHEAR V = 2171 LBS

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

GENERAL NOTES:

- 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.
- 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.
- 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.
- SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTIONS AND THE DOWN REQUIREMENTS.
- STRAPPING MUST BE TESTED AND/OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY. APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
- WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
- THIS BUILDING IS DESIGNED FOR NORTH CAROLINA CLIMATE ZONE 4a
- 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).
- PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
- 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 E1966, WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC AND NBCB.

MECHANICAL NOTES:

- 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-8 MINIMUM INSULATION AND R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING.
- INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR UNRAISED DOORS)
- HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 7.5(NC) 10 CFM PER PERSON & 0.12 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF THE IBC, NCMC.
- VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP AND BE NO CLOSER THAN 10 FEET FROM MECHANICAL AIR INTAKE.
- THERMOSTAT MUST BE PROGRAMMABLE
- HEATING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN TEMPERATURES ABOVE AN ADJUSTABLE 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.

ELECTRICAL NOTES:

- ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
- WHERE 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 8 INCHES FROM "CLOSEST STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410.2.
- 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.
- 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.
- PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH ARTICLES 110.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
- THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
- ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
- 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. THE RECEPT SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER NEC.
- EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
- OCCUPANCY SENSOR SWITCHES SHALL PROVIDE A BI-LEVEL LIGHTING CONTROL TO PROVIDE EITHER CONTINUOUS DIMMING, OR AT LEAST ONE INTERMEDIATE STEP IN LIGHTING POWER BETWEEN 30% & 70% OF FULL POWER IN ADDITION TO FULL ON AND FULL OFF.
- 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.
- 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).
- TAMPER RESISTANT RECEIPTS TO BE PROVIDED IN EDUCATION BUILDING SERVING ELEMENTARY, PRE-SCHOOL AND YOUNGER.

PLUMBING NOTES:

- TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
- REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F.
- FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD TO THE WALLS AT LEAST 6 INCHES.
- THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
- ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
- WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T & P RELIEF VALVE WITH DRAIN TO PAN WITH 2" TO 6" AIR GAP AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
- DWV SYSTEM SHALL BE EITHER ABS OR PVC - DWV.
- WATER SUPPLY LINES SHALL BE PEX AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
- WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH VALVE TYPE UNLESS OTHERWISE SPECIFIED.
- BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.9°C).
- 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.
- WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
- WATER, SOIL AND WASTE PIPES IN UNCONDITIONED SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING.
- CUSTOMER ASSUMES ALL RESPONSIBILITY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
- 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)
- 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.
- THE FIRST 8 FEET OF HOT WATER PIPING FROM WATER HEATER SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/h x ft x ft.
- THE WATER HEATER SHALL HAVE CONTROLS TO ALLOW A SET POINT OF 90 DEGREES F. THE OUTLET TEMPERATURE OF LAVATORIES SHALL BE LIMITED TO 110 DEGREES F.
- THE WATER HEATER SHALL BE PLUMBED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING CONNECTED TO THE HEATER.
- LAVATORIES SHALL BE THE METERING TYPE PER NPCC.

MARYLAND NOTES:

- REFER TO STATE PACKAGE PAGE NO. C34.0 FOR REQUIRED DUCT PROTECTION CONNECTION TO HVAC UNIT.
- THE FOLLOWING NOTE SHALL BE ON THE BLDG. DATA PLATE: THIS BUILDING HAS NOT BEEN DESIGNED FOR AND IS NOT APPROVED FOR INSTALLATION IN THE FOLLOWING MARYLAND COUNTIES: ALLEGANY
- HVAC SYSTEM SHALL COMPLY WITH NFPA 90B WHEN BUILDING VOLUME DOES NOT EXCEED 25,000 CUBIC FEET, OTHERWISE HVAC SYSTEM SHALL COMPLY WITH NFPA 90A.
- THESE PLANS ARE PREPARED TO FACILITATE CONSTRUCTION OF THE PRE-ENGINEERED FACTORY BUILT MODULAR BUILDING, AND THE INCLUDE MINIMUM ON-SITE SUPPORT AND THE DOWN REQUIREMENTS FOR THE MODULAR BUILDING. THE PROJECT ARCHITECT OF RECORD IS RESPONSIBLE FOR INCORPORATION AND COORDINATION OF THESE PLANS INTO THE OVERALL PROJECT DESIGN.
- TO LOCAL BUILDER AND/OR SITE DEVELOPER: ALL SITE WORK INCLUDING THE LOCATION OF THE BUILDING, IS REQUIRED TO BE REVIEWED AND APPROVED BY A MD. REG. ARCH. OR ENG. TO VERIFY CODE COMPLIANCE INCLUDING BUT NOT LIMITED TO FIRE RESISTANCE RATINGS FOR EXTERIOR PROTECTION. MEANS OF EGRESS, HEIGHT AND AREA LIMITATIONS, OTHER PERTINENT SITE RELATED MATTERS. DOCUMENTS RELATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL.
- INSTALL STATE INSIGNIA AND BUILDING DATA PLATE IN THE VICINITY OF ELECTRICAL DISTRIBUTION PANEL OR OTHER LOCATION THAT IS READILY ACCESSIBLE FOR INSPECTION, BUT NOT ON ANY READILY REMOVABLE FEATURE.
- WHEN THE 2018 IECC IS THE APPLICABLE ENERGY CODE, SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THRU 4 AND A MINIMUM OF R-12 INSUL IN CLIMATE ZONE 5. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THRU 4 AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONE 5.

STATEMENT OF SPECIAL INSPECTIONS (IBC SECTION 1704.3)

THE FOLLOWING MATERIALS, SYSTEMS COMPONENTS OR WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.

- SOILS-PERIODIC
- CONCRETE FOOTINGS-EXEMPT PER 1705.3 EXCEPTION #1
- MASONRY PIERS-PERIODIC
- BUILDING ANCHORAGE SYSTEM-PERIODIC
- ON SITE STRUCTURAL INTERCONNECTIONS BETWEEN BUILDING MODULES-PERIODIC
- SPECIAL INSPECTIONS OF THE FACTORY BUILT MODULAR UNITS IS NOT REQUIRED DURING PRODUCTION IN THE FACTORY PER IBC SECTION 1704.2.1. THE MODULAR BUILDING MANUFACTURER IS AN APPROVED FABRICATOR OF PREMANUFACTURED BUILDINGS UNDER THE MARYLAND INDUSTRIALIZED BUILDING PROGRAM AND IS THEREFORE APPROVED TO MANUFACTURE WITHOUT SPECIAL INSPECTIONS

ACCESSIBILITY NOTES:

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE BUILDING FACILITIES AND BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
- ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR 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.
- 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 FROM FLOOR TO 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 AND TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
- CONTROL PANELS, 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 OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
- WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING IN TOILET ROOMS AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING,WHICH-EVER IS LOWER.
- 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 180 DEGREES SHALL BE NO MORE THAN 5 SECONDS. THE 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.
- FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELLED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMP. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRATING 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.
- 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.
- ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
- ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR (THIS EXCLUDES SINKS IN CABINETS). 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.
- 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.
- ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (I.E. LEVER-OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
- 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.
- 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.
- WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
- DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER - OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
- TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.
- A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVATORIES.

LIMITATIONS OF APPROVAL N.J.

- THE APPROVAL OF THE PLAN UNDER THE INDUSTRIALIZED BUILDING COMMISSION PROGRAM IS PART OF THE MANUFACTURERS BUILDING SYSTEM APPROVAL.
- A PLAN FOR EACH SPECIFIC LOCATION MAY NEED TO BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION, AS MAY BE REQUIRED FOR PERMITTING PURPOSES. THE PERMIT SET MAY NEED TO INCLUDE A FOUNDATION PLAN FOR THE SPECIFIC BUILDING SITE, SIGNED AND SEALED BY A N.J. LICENSED ENGINEER OR ARCHITECT, IN ACCORDANCE WITH THE STATE AND LOCAL REQUIREMENTS.

WINDOW & DOOR SPECIFICATIONS

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

MARYLAND, N.J., VA. STRUCTURAL LOAD LIMITATIONS:

FLOOR DEAD AND LIVE LOAD:
A. DEAD LOAD = 12 PSF (AVERAGE).
B. UNIFORM LIVE LOAD = 40 PSF
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 = 30 PSF.

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

WIND LOAD:
A. BASIC WIND SPEED (3-SEC GUST): V = 150 MPH
B. ASD WIND SPEED (3-SEC GUST): Vasd = 116 MPH
C. RISK CATEGORY: II
D. WIND EXPOSURE CATEGORY: C
E. INTERNAL PRESSURE COEFFICIENT: Gcpi = 0.16
F. COMPONENT & CLADDING BASIC DESIGN PRESSURES (ASD DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:
WALL ZONE 5: P = +/-65.6 PSF (Pabd = +/-39.3 PSF)
WALL ZONE 4: P = +/-53.1 PSF (Pabd = +/-31.9 PSF)
ROOF ZONE 3: P = -140.2 PSF (Pabd = -84.1 PSF)
ROOF ZONE 2: P = -103.0 PSF (Pabd = -61.8 PSF)
ROOF ZONE 1: P = -78.0 PSF (Pabd = -48.8 PSF)
ROOF ZONE 1: P = -44.8 PSF (Pabd = -28.9 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 IS II.
B. SEISMIC IMPORTANCE FACTOR IS 1.0
C. SEISMIC SITE CLASS IS D.
D. SPECTRAL RESPONSE COEFFICIENTS: Sg = 0.537 Sd1 = 0.285 Sds = 0.49 Sd1 = 0.19
E. SEISMIC DESIGN CATEGORY IS C.
F. SEISMIC FORCE RESISTING SYSTEM IS A15.
G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
H. RESPONSE MODIFICATION FACTOR R = 6.5.
I. SEISMIC RESPONSE COEFFICIENT Cs = 0.08
J. DESIGN BASE SHEAR V = 2171 LBS

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

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

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.

- THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROOF SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET.
- BUILDING TIE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
- ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM2 AND IM6 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM4 AND IM7 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM2 AND IM5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- FIRE BLOCKING SHALL BE PROVIDED PER SECTION 717.2 AND 1406.2.3 OF THE IBC, BUILDING CODE (AS APPLICABLE).
- AIR INFILTRATION 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.

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.

- THE COMPLETE FOUNDATION SUPPORT AND THE DOWN SYSTEM.
- RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
- PORTABLE FIRE EXTINGUISHER(S).
- BUILDING DRAINS, CLEANOUTS, DRINKING FOUNTAIN, SERVICE SINK, AND HOOK-UP TO PLUMBING SYSTEM.
- ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
- GLAZING OPENING PROTECTION-SEE GENERAL NOTE 10
- GUTTER AND DOWN SPOUTS.
- FIRE ALARM
- EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCYS)



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NEW JERSEY

CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC.#15414
18167 US 19 NORTH-SUITE 120
CLEARWATER, FL. 33764 (727) 644-8193

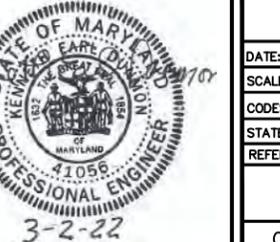
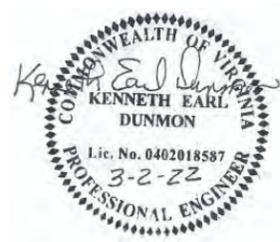
BUILDING DESIGN PARAMETERS

1. USE/OCCUPANCY:	STOCK-EDUCATION
2. CONSTRUCTION TYPE:	VB
3. SPRINKLER SYSTEM:	NO
4. BUILDING AREA:	533 SF.
5. BUILDING HEIGHT:	5.15 FEET
6. NUMBER OF STORES:	2
7. NUMBER OF MODULES:	2
8. OCCUPANT LOAD 36L BASED ON 20L NET SF/PERSON	NOT RATED
9. EXTERIOR WALL FIRE RATING:	NOT RATED
10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC & NBCB 602 AND SECTION 705.3	
11. ENERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.	
12. MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.	
SPRINKLER SYSTEM NOT REQUIRED IF THE BUILDING IS TO BE INSTALLED IN MARYLAND (BUILDING MUST BE INSTALLED 30 FEET MINIMUM FROM ADJACENT BUILDING IN ALL JURISDICTIONS ADOPTING THE 2018 NFPA 101.	

DRAWING INDEX

1	OF	6	COVER SHEET
2	OF	6	FLOOR PLAN
3	OF	6	ELECT PLAN
4	OF	6	MECH PLAN
5	OF	6	ELEVATIONS
6	OF	6	CROSS SECTION
AD-1			ACCESSIBLE DETAILS
LS1			LIFE SAFETY PLAN
1	OF	1	FOUNDATION

MARYLAND SERIAL NO.: STOCK



CONSULTING ENGINEER KENNETH EARL DUNMON - P.O. BOX 6853 - AMERICUS, GEORGIA 31719 - 229-942-2020

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

DATE: 2-1-22	REVISIONS:	BY:
SCALE: NO SCALE		K.E.D.
CODES: SEE NOTES		BY:
STATES: MD, VA, NC, NJ		R.E.G.
REFERENCE: 9727		
DBI24x40 A/B STOCK- EDUCATION		
COVER SHEET	MD. PLAN NO: DBI-24x40 MD	1 OF 6 SHEET

DWV RISER NOTES:

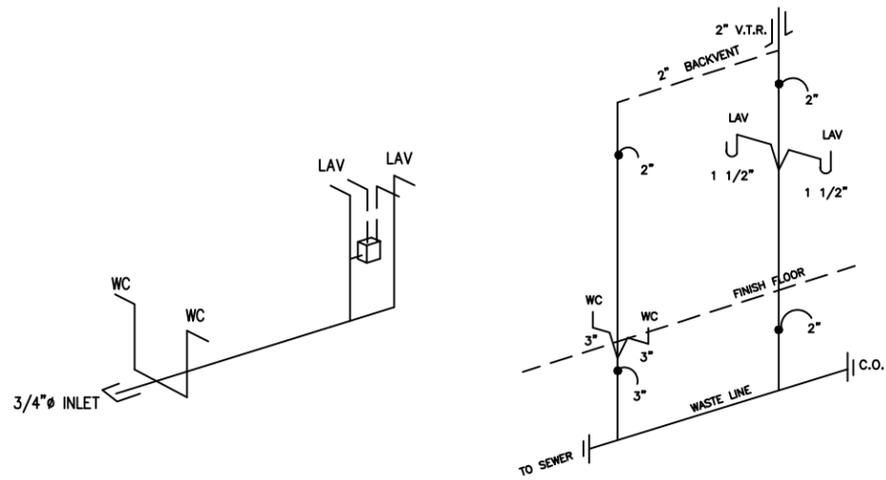
1. THE DWV RISER INDICATES ONE METHOD OF INSTALLING THE BELOW THE FLOOR PIPING. OTHER APPROVED METHODS MAY BE USED AS NEEDED TO ACCOMMODATE THE ACTUAL SITE CONDITIONS.
2. ALL BELOW FLOOR PIPING AND FITTINGS ARE TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.
3. 1 1/2 INCH AND 2 INCH HORIZONTAL DRAIN 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 706.3. VERTICAL TO HORIZONTAL AND HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION ARE TO BE MADE WITH LONG SWEEP FITTINGS.

DOOR HARDWARE:
 LEVER PRIVACY: RESTROOMS
 KEYED LEVER LOCKSET (EXTERIOR DOORS)
 LEVER PASSGE: CLOSETS

SYMBOL	DOOR SCHEDULE	TOTAL
A	36"x80" HOLLOW CORE IMPERIAL OAK W/REDIFRAME	4
B	36"x80" STEEL/STEEL W/4X24" VIEW BLOCK	2
SYMBOL	WINDOW SCHEDULE	TOTAL
V	24"x54" VERTICAL SLIDE, INSULATED BRONZE/TINTED	3

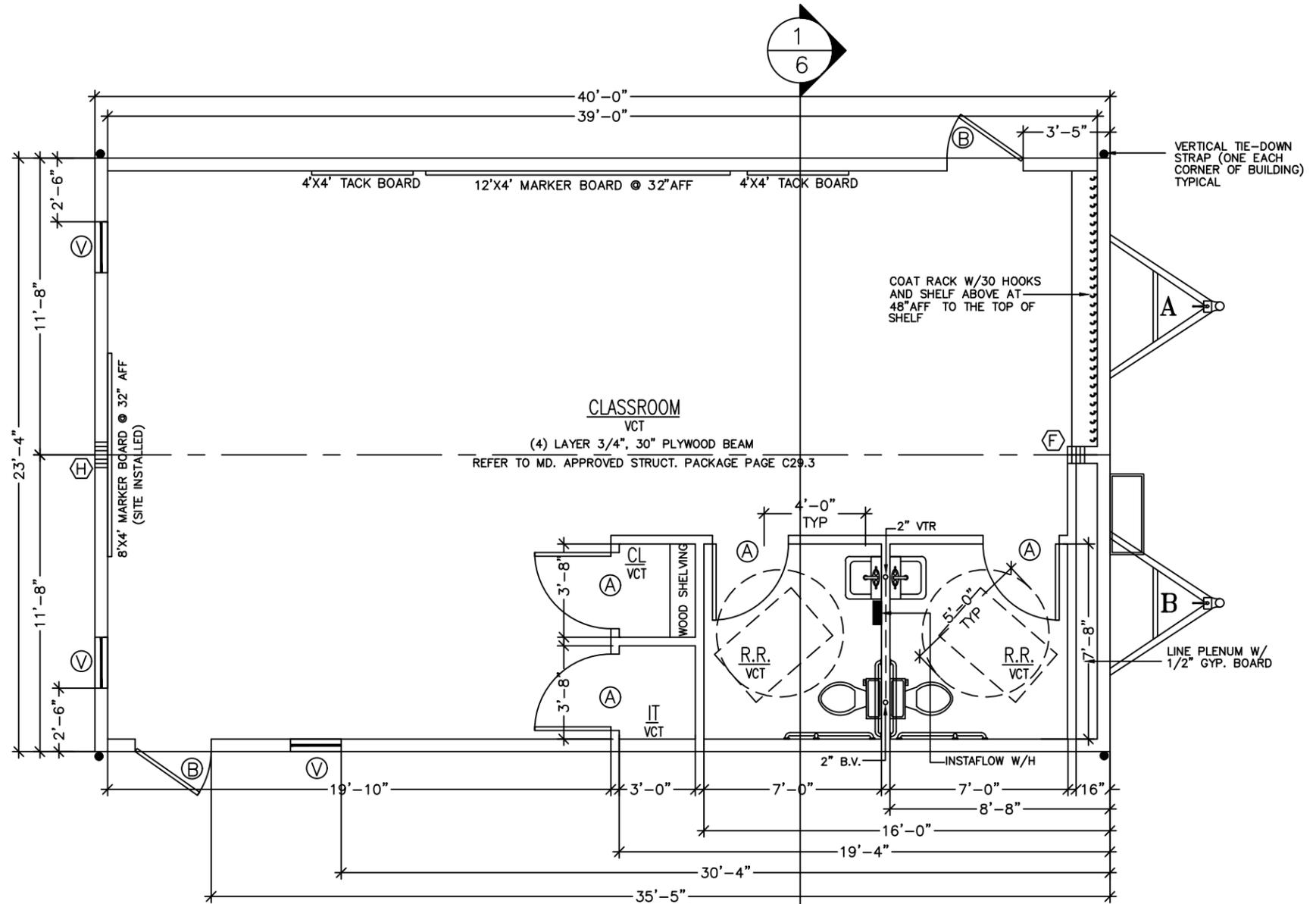
SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

--- COLD
 --- HOT
 ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.



SUPPLY RISER -NTS-

DWV RISER NTS



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)	(3) 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.

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EMC
R. JOHNSON
APPROVED
03 02 2022

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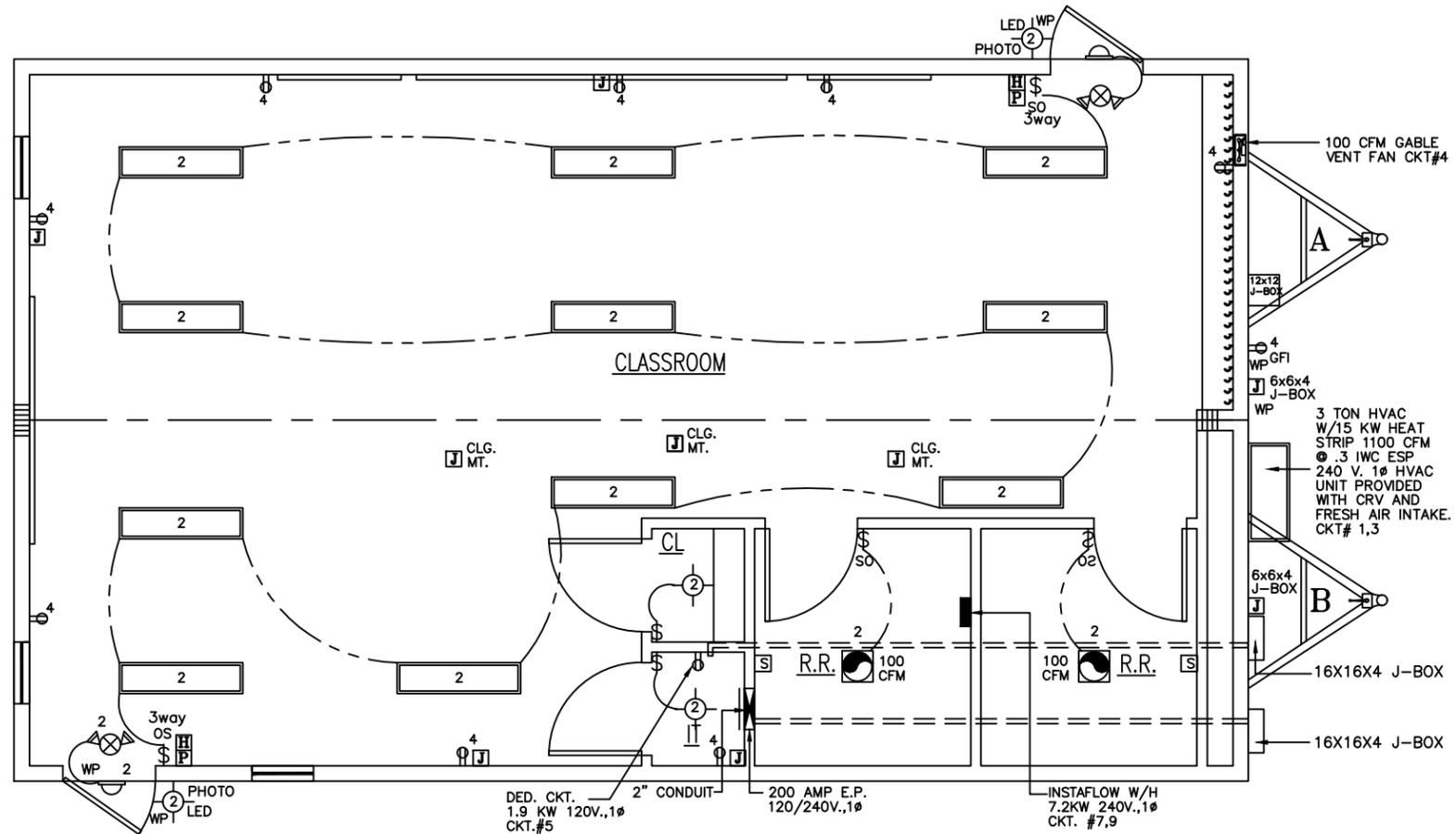


DIAMOND BUILDERS INC.
 P.O. BOX 2200 DOUGLASS, GEORGIA 31534 440 THOMPSON DR. (912) 384-7080

DATE: 2-1-22	REVISIONS:	BY: K.E.D.
SCALE: 3/16"=1'-0"		
CODES: SEE NOTES		BY: R.E.G.
STATES: MD, VA, NC, NJ		
REFERENCE: 9727		
DBI24x40 A/B STOCK- EDUCATION		SHEET 2 OF 6
COVER SHEET	MD. PLAN NO: DBI-24x40 MD	

ELECTRICAL SCHEDULE			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60A(2P)	6-2 #10 GRND.
7, 9	WATER HEATER	30 A(2P)	10-2 NM
5	DED. CKT. 1.9KW 120V.,1Ø	20 A(1P)	12-2 NM
4	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING/FAN	15 A	14-2 NM

ELECTRICAL PANEL SIZING:	
DESCRIPTION	KVA
GENERAL LIGHTING	
.0030 KW/SF X 933 SF X 1.25=	3.5
9 RECEPTS AT 180VA/1000=	1.6
DED. CKT. 1.9 KW x 1.25=	2.4
3 FAN(S) AT .3 KW X 1.25=	1.2
HVAC	15.9
WATER HEATER 7.2 KW =	7.2
TOTAL 31.8 KW	
TOTAL/240 X 1000=	133 AMPS
INSTALL 200 AMP PANEL	
120/240 V 1Ø	



SYMBOLS	
J-BOXES ONLY	
[P]	FIRE ALARM PULL STATION 44" AFF
[H]	FIRE ALARM HORN/STROBE 80" AFF
[S]	FIRE ALARM STROBE LIGHT 80" AFF
▽	JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
⊖	CLG. MT. J-BOX
⊙	SMOKE DETECTOR
⊕	DUPLEX RECEPTACLE 120 V.
⊕	SINGLE RECEPTACLE 240 V.
⊙	LED POECH LIGHT WITH 1- 13 W. BULB
⊙	LED PORCH LIGHT LIGHT 1-60 W. BULB
⊖	CLG. MT. POWERED J-BOX
⊖	VENT FAN
⊖	COMB. VENT FAN & LED LIGHT
⊕	SUPPLY AIR REGISTER
⊕	RETURN AIR REGISTER
⊕	FLOOD LIGHT 2-150W BULBS
⊕	THERMOSTAT
⊕	FLOUR LIGHT FIXTURE WITH 22W. T-8
⊕	EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
⊕	EXIT/EMERGENCY COMBO W/BATTERY BACKUP
⊕	EXIT SIGN W/BATTERY BACKUP
⊕	EMERGENCY LIGHT WITH BATTERY BACKUP
▽	TELEPHONE JACK
⊕	SWITCH & 3 WAY SWITCH
⊕	OCCUPANCY SENSOR SWITCH
⊕	FIRE EXTINGUISHER F.E.

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REFERENCE: 9727		
DBI24x40 A/B STOCK- EDUCATION		SHEET
ELECTRICAL	MD. PLAN NO: DBI-24x40 MD	3 OF 6

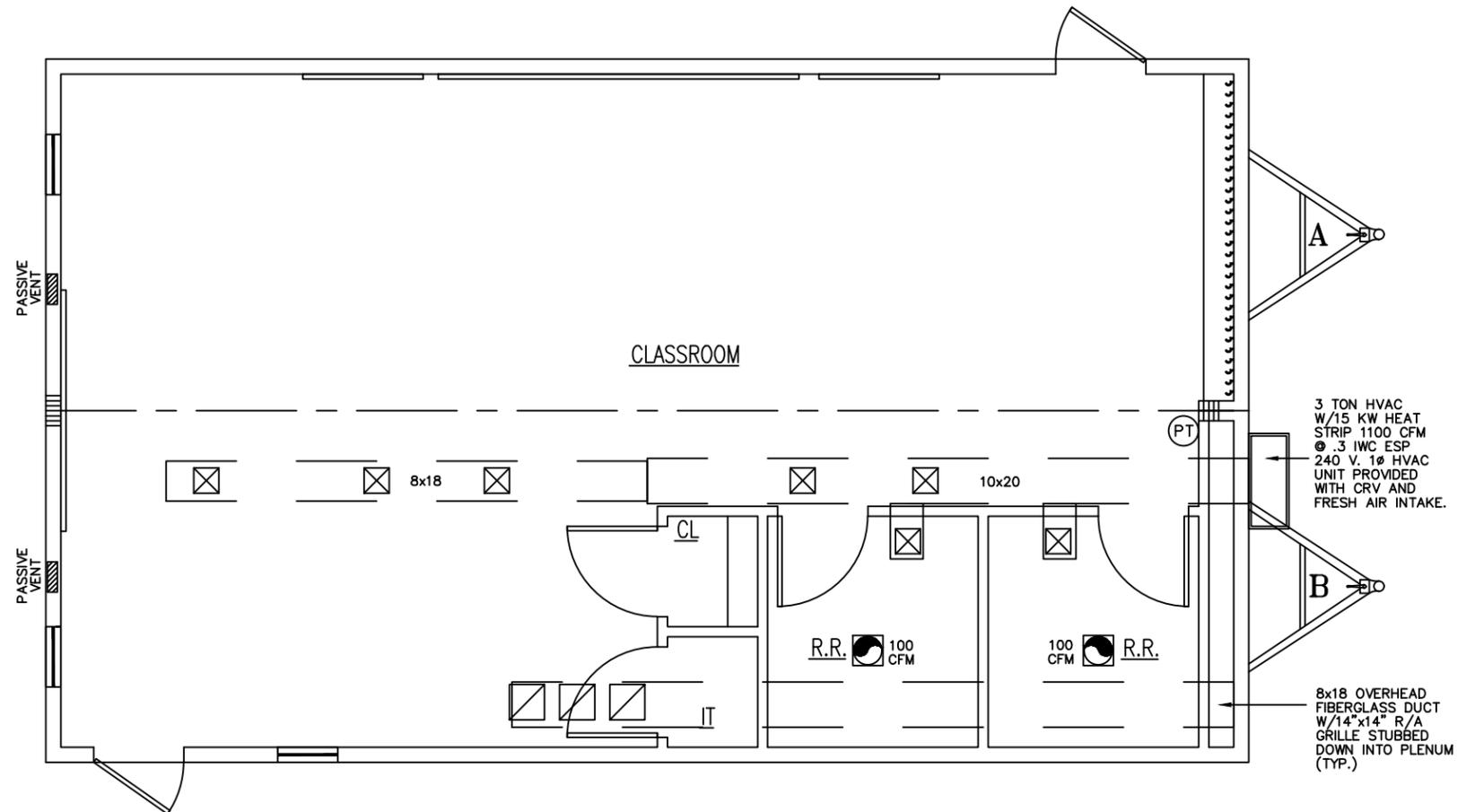
LEGEND

-  14"x14" RETURN AIR GRILLE
-  14"x14" SUPPLY AIR GRILLE
-  COMB. VENT FAN AND LIGHT
-  THERMOSTAT PROGRAMMABLE

NOTES:

FLEX DUCT FOR SUPPLY IS 8" AND FLEX DUCT FOR RETURN IS 10"

SEE ATTACHED BARD SPECIFICATIONS FOR ALL REQUIREMENTS AND INFORMATION REGARDING HVAC INSTALLATION AND OPERATING PROCEDURES



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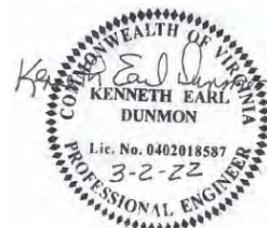
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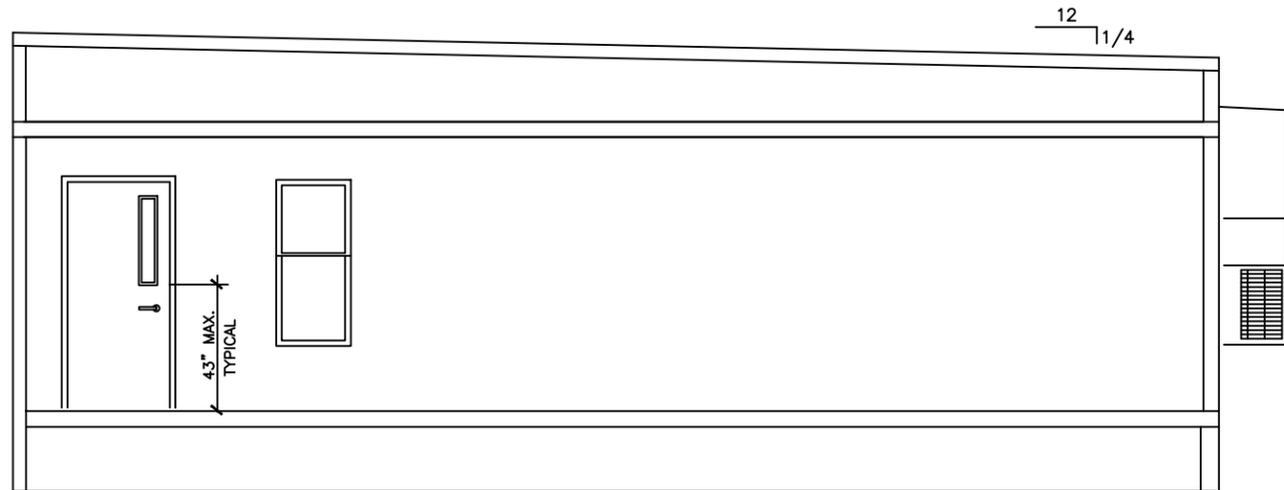
CONSULTING ENGINEER KENNETH EARL DUNMON — P.O. BOX 6853 — AMERICUS, GEORGIA 31719 — 229-942-2020



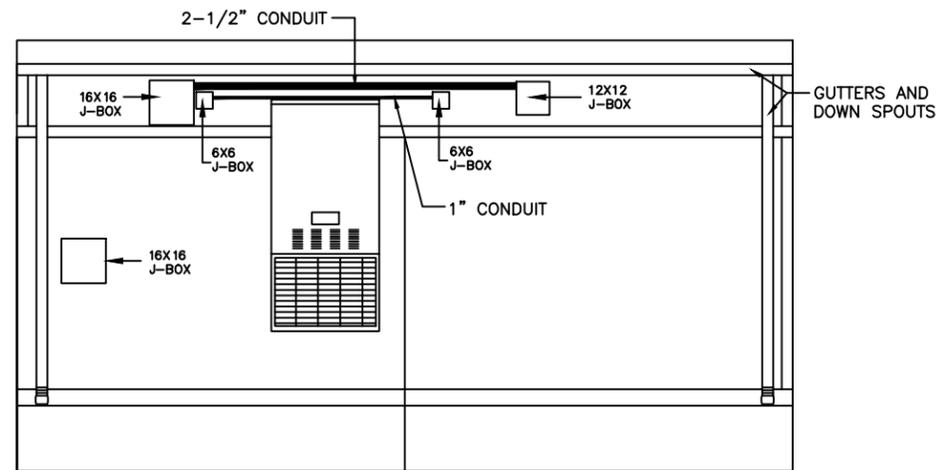
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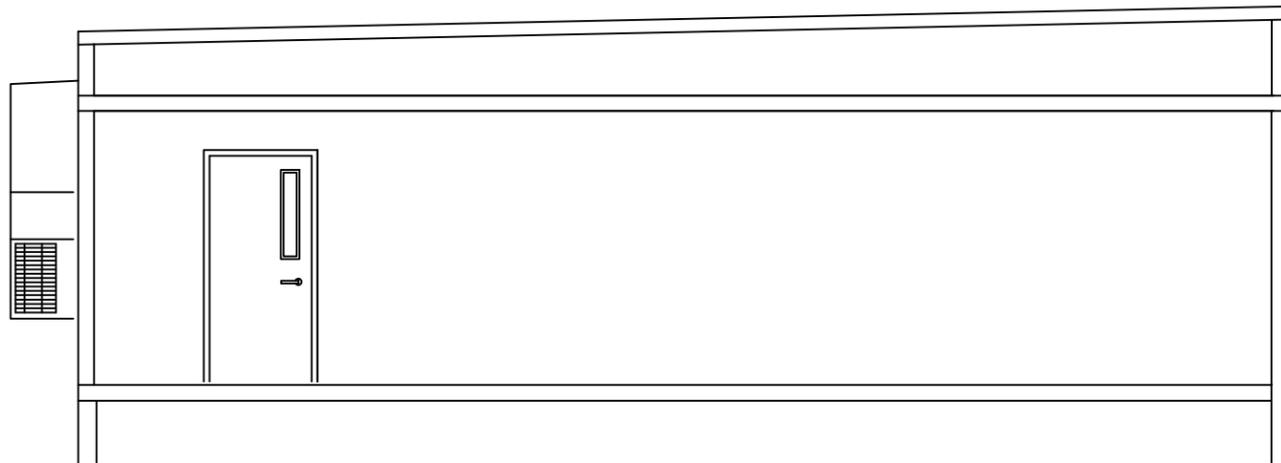
DBI24x40 A/B
STOCK- EDUCATION
MECHANICAL MD. PLAN NO: DBI-24x40 MD 4 OF 6



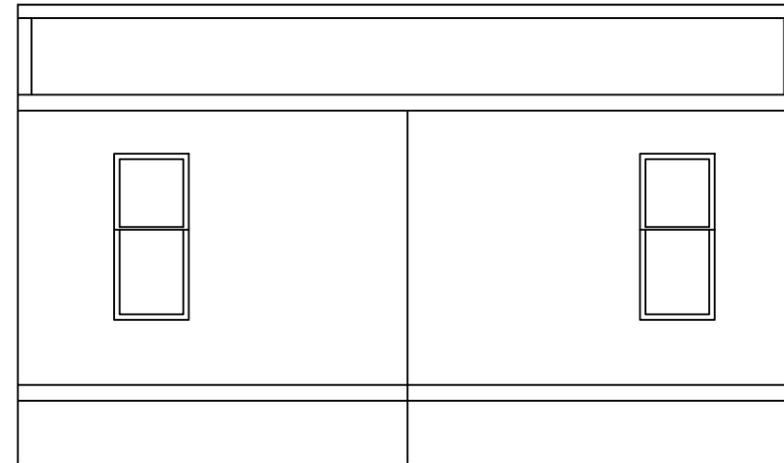
REAR ELEVATION



LEFT ELEVATION



FRONT ELEVATION



RIGHT ELEVATION

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.

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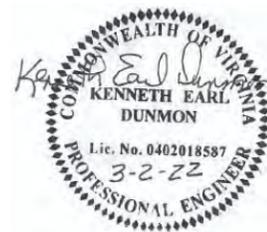


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DATE: 2-1-22	REVISIONS:	BY: K.E.D.	
SCALE: 3/16" = 1'-0"		BY: R.E.G.	
CODES: SEE NOTES		SHEET 6 OF 7	
STATES: MD, VA, NC, NJ		MD. PLAN NO: DBI-24x40 MD	
REFERENCE: 9727	DBI24x40 A/B STOCK- EDUCATION ELEVATIONS		

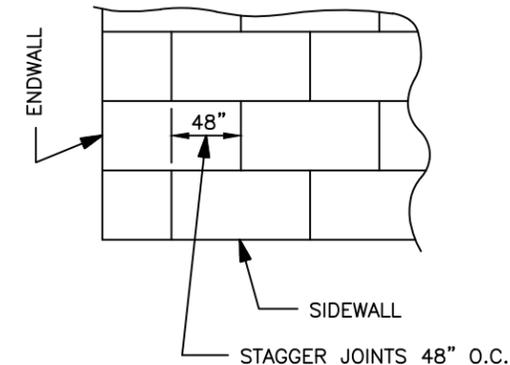
INTERIOR FINISH MATERIAL:

- CEILING - 1/2" GYPSUM CEILING BOARD INSTALLED PER MANUFACTURERS SPECIFICATION (SEASPRAY FINISH)
- WALL - 1/2" GYPSUM BOARD (VINYL COVERED) INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- FLOOR - AS NOTED ON FLOOR PLAN

NOTE:
INTERIOR WALL AND CEILING FINISH SHALL BE CLASS B OR BETTER 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 60 MIL (BLACK) EPDM (ESR-1463) FULLY ADHERED TO 7/16" OSB OR OR 1/2" PLYWOOD WITH MULE-HIDE FR ADHESIVE IN ACCORDANCE WITH INTEREK REPORT CCRR-1078 (CLASS C ROOF)
- WALL - 7/16" SMART PANEL SIDING OVER APPROVED MOISTURE BARRIER. (DUPONT TYVEK ESR 2375) INSTALLED PER MANUFACTURERS SPECIFICATIONS



ROOF SHEATHING FASTENED TO TRUSSES W/0.099"Ø x 2" NAILS @ 6" O.C. ON EDGES AND 6" O.C. IN THE FIELD ON ALL ZONES

ROOF SHEATHING DETAIL

ATTIC VENTILATION IS PROVIDED BY (1) 100 CFM FAN AND (1) GABLE VENT PER MODULE.

SEE MECHANICAL NOTES AND FLOOR PLAN FOR CEILING DUCT SPECIFICATIONS

TOP RAIL:
2x4 SYP#2 FASTEN TO TRUSS W/(3) 0.131"Ø x 3" NAILS

BOTTOM EDGE RAIL:
2x6 SYP#2 FASTEN TO TRUSS W/(12) 0.131"Ø x 3" NAILS

26 GA. X 1-1/2" STEEL STRAP FROM RAIL TO WALL STUD @ 16" O.C. FASTEN W/7- 15 GA. X 1 1/4" STAPLES PER STRAP (TYPICAL SIDEWALLS)

2x HEADER PER APPROVED PACKAGE

SILL PLATE 2X6 SPF#2

CRIPPLE STUDS 2X6 SPF#2 @ 16" O.C.

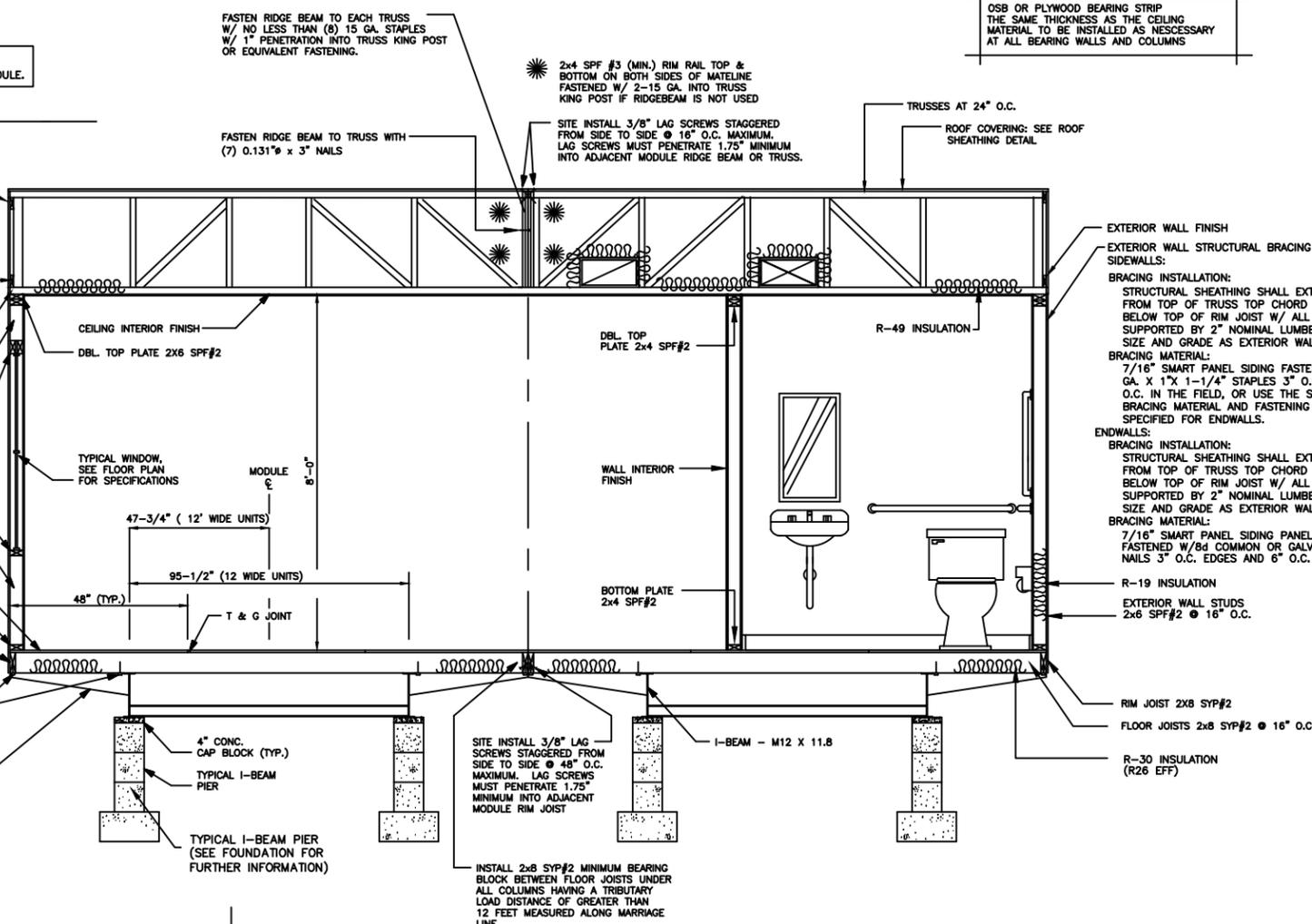
3/4 PLYWOOD, STURD-I-FLOOR, EXP.-1, 24" O.C.

BOTTOM PLATE 2X6 SPF#3

26 GA. X 1-1/2" STEEL STRAP FROM WALL STUD TO FLOOR JOIST @ OPENING STUDS AND 16" O.C. W/ (7) 15 GA. X 1" PEN. STAPLES PER STRAP END (TYPICAL SIDEWALLS & ENDWALLS)

(2) 5/16" X 3" LAG SCREWS THROUGH FLANGE INTO JOIST @ EACH OUTRIGGER IN ADDITION, INSTALL (1) 5/16" X 3" LAG SCREW W/ FLANGE CLIP FROM I-BEAM TO EACH FLOOR JOIST BETWEEN ALL OUTRIGGERS (TYP.)

OUTRIGGER AND CROSSMEMBER SPACING (SEE APPROVED PACKAGE FOR SPACING)



FASTEN RIDGE BEAM TO EACH TRUSS W/ NO LESS THAN (8) 15 GA. STAPLES W/ 1" PENETRATION INTO TRUSS KING POST OR EQUIVALENT FASTENING.

FASTEN RIDGE BEAM TO TRUSS WITH (7) 0.131"Ø x 3" NAILS

2x4 SPF #3 (MIN.) RIM RAIL TOP & BOTTOM ON BOTH SIDES OF MATELINE FASTENED W/ 2-15 GA. INTO TRUSS KING POST IF RIDGEBEAM IS NOT USED

SITE INSTALL 3/8" LAG SCREWS STAGGERED FROM SIDE TO SIDE @ 16" O.C. MAXIMUM. LAG SCREWS MUST PENETRATE 1.75" MINIMUM INTO ADJACENT MODULE RIDGE BEAM OR TRUSS.

OSB OR PLYWOOD BEARING STRIP THE SAME THICKNESS AS THE CEILING MATERIAL TO BE INSTALLED AS NECESSARY AT ALL BEARING WALLS AND COLUMNS

TRUSSES AT 24" O.C.

ROOF COVERING: SEE ROOF SHEATHING DETAIL

EXTERIOR WALL FINISH
EXTERIOR WALL STRUCTURAL BRACING SIDEWALLS:

BRACING INSTALLATION:
STRUCTURAL SHEATHING SHALL EXTEND CONTINUOUS FROM TOP OF TRUSS TOP CHORD TO 3/4" MINIMUM BELOW TOP OF RIM JOIST W/ ALL SHEATHING EDGES SUPPORTED BY 2" NOMINAL LUMBER OF THE SAME SIZE AND GRADE AS EXTERIOR WALL FRAMING.

BRACING MATERIAL:
7/16" SMART PANEL SIDING FASTENED W/ 16 GA. X 1" X 1-1/4" STAPLES 3" O.C. ON EDGES AND 6" O.C. IN THE FIELD, OR USE THE SAME STRUCTURAL BRACING MATERIAL AND FASTENING METHOD AS SPECIFIED FOR ENDWALLS.

ENDWALLS:
BRACING INSTALLATION:
STRUCTURAL SHEATHING SHALL EXTEND CONTINUOUS FROM TOP OF TRUSS TOP CHORD TO 3/4" MINIMUM BELOW TOP OF RIM JOIST W/ ALL SHEATHING EDGES SUPPORTED BY 2" NOMINAL LUMBER OF THE SAME SIZE AND GRADE AS EXTERIOR WALL FRAMING.

BRACING MATERIAL:
7/16" SMART PANEL SIDING PANEL EXP. 1, FASTENED W/8d COMMON OR GALV. BOX NAILS 3" O.C. EDGES AND 6" O.C. IN THE FIELD.

R-49 INSULATION

R-19 INSULATION

EXTERIOR WALL STUDS 2x6 SPF#2 @ 16" O.C.

RIM JOIST 2x8 SYP#2
FLOOR JOISTS 2x8 SYP#2 @ 16" O.C.

R-30 INSULATION (R26 EFF)

I-BEAM - M12 X 11.8

4" CONC. CAP BLOCK (TYP.)
TYPICAL I-BEAM PIER

SITE INSTALL 3/8" LAG SCREWS STAGGERED FROM SIDE TO SIDE @ 48" O.C. MAXIMUM. LAG SCREWS MUST PENETRATE 1.75" MINIMUM INTO ADJACENT MODULE RIM JOIST

INSTALL 2x8 SYP#2 MINIMUM BEARING BLOCK BETWEEN FLOOR JOISTS UNDER ALL COLUMNS HAVING A TRIBUTARY LOAD DISTANCE OF GREATER THAN 12 FEET MEASURED ALONG MARRIAGE LINE

APPROVED TRUSS DESIGN:
SOUTHERN WOOD COMPONENTS
TRUSS MANUF. : WOOD COMPONENTS
TRUSS DRAWING. # SWF3155
SEE ATTACHED DWG.

GENERAL CROSS-SECTION NOTES:

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



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

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RIDGE BEAM CONSTRUCTION:

4 LAYERS 3/4" X 28" PLYWOOD, RATED SHEATHING, EXP.-1, STRUCT.-1, 5 PLY/5 LAYER, 48/24 EACH HALF CONTINUOUS ENTIRE LENGTH OF CLEARSPAN.

- NOTES:
- PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
 - ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
 - ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD. NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
 - PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS I-95.
 - PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/ PDS SUPPLEMENT #5, W/ AN ADHESIVE COMPLYING W/ ASTM D2559, OR CA25-4.
 - PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
 - MOISTURE CONTENT MUST BE LESS THAN 16%.
 - BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
 - INSTALL (2x4) 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 (6) 16 GA. X 2-1/2" STAPLES.

NEW JERSEY

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ROBERT E. GREGG R.A. LIC.#15414
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CLEARWATER, FL. 33764 (727) 644-8193

CONSULTING ENGINEER KENNETH EARL DUNMON - P.O. BOX 6853 - AMERICUS, GEORGIA 31719 - 229-942-2020

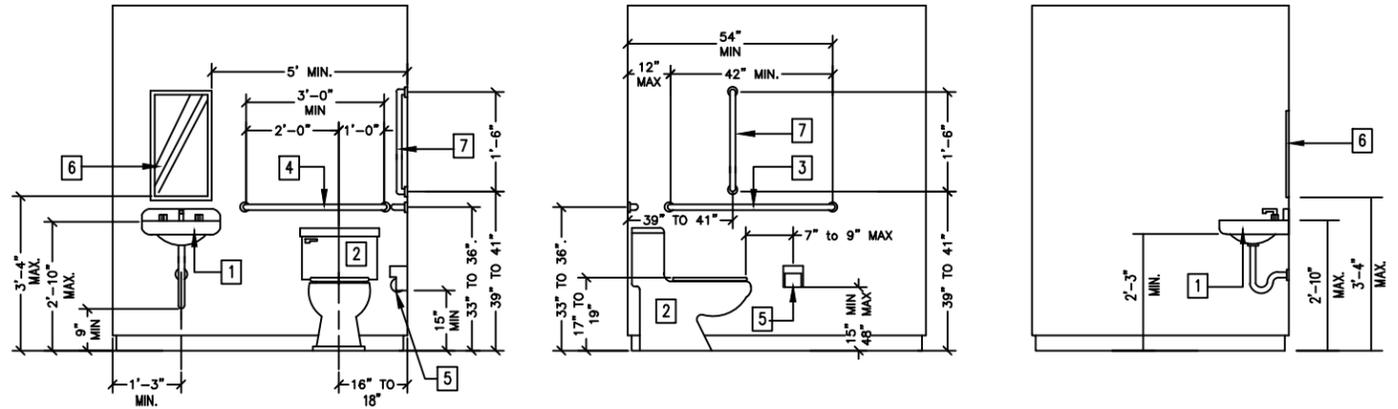


DIAMOND BUILDERS INC.
P.O. BOX 2200 DOUGLASS, GEORGIA 31534 440 THOMPSON DR. (912) 384-7080

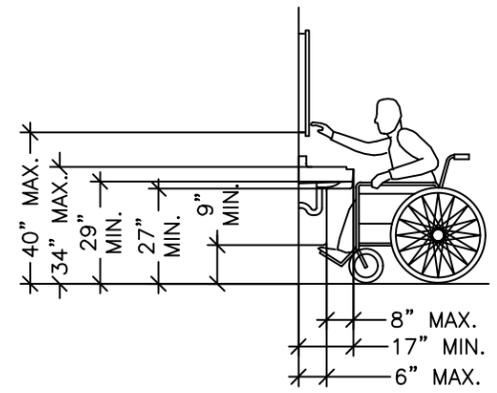
DATE: 2-1-22 REVISIONS: BY: K.E.D.
SCALE: NO SCALE
CODES: SEE NOTES BY: R.E.G.
STATES: MD, VA, NC, NJ
REFERENCE: 9727

DBI24x40 A/B STOCK- EDUCATION SHEET 6 OF 6
CROSS SECTION MD. PLAN NO: DBI-24x40 MD

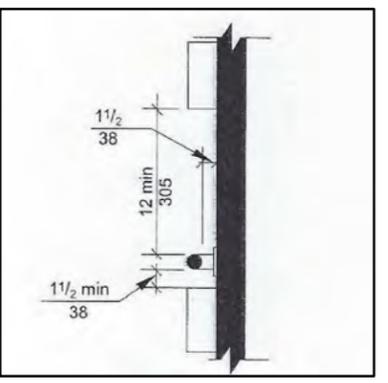
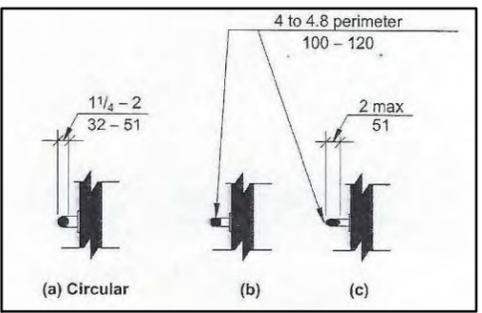
- LEGEND:**
- 1 LAVATORY
 - 2 H/C WATER CLOSET
 - 3 42" GRAB BAR
12 INCHES MAXIMUM
FROM REAR WALL
 - 4 36" GRAB BAR
 - 5 TOILET PAPER HOLDER
 - 6 MIRROR (TILTED)
 - 7 18" VERT GRAB BAR
 - 8 ACCESS URINAL



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



ADA ACCESSIBLE SINK ELEVATION



GRAB BAR DETAIL

THESE DETAILS ARE BASED ON 2010 ADA REQUIRMENTS

FOR BUILDINGS THAT UTILIZES OTHER ACCESSIBILITY CODES. REFER TO APPLICABLE CODES SPECIFIC REQUIRMENTS

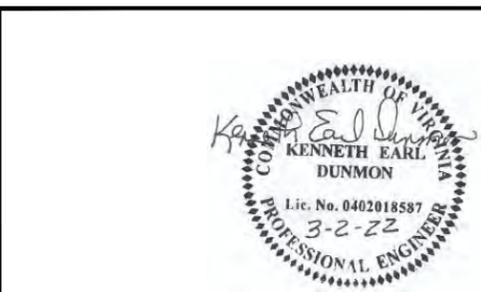
ALL IDEAS, DESIGNS, ARRANGEMENTS, DRAWINGS AND PLANS SET FORTH ON THIS SHEET ARE THE ORIGINAL WORK PRODUCT OF, ARE OWNED BY AND ARE THE PROPERTY OF DESIGNER/DRAFTER OF RECORD" (FINE LINE DRAFTING) AND USE OF THIS SAID WORK PRODUCT IS LIMITED TO A SPECIFIED PROJECT OF THE PURCHASER, AND FOR THE CONSTRUCTION OF ONE BUILDING. ANY USE, REUSE, DISCLOSURE, COPYING, OR ADAPTATION OF SAID PLANS REPRODUCTION, IDEAS, DESIGNS AND/OR ARRANGEMENTS, OTHER THAN BY "DESIGNER DRAFTER OF RECORD" (FINE LINE DRAFTING) IS STRICTLY PROHIBITED BY LAW WITHOUT THE WRITTEN PERMISSION OF THE SAID "DESIGNER/DRAFTERS." (FINE LINE DRAFTING)

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 41056 Expiration Date: 10-17-23



R. JOHNSON
APPROVED
03 02 2022

NEW JERSEY
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CONSULTING ENGINEER KENNETH EARL DUNMON - P.O. BOX 6853 - AMERICUS, GEORGIA 31719 - 229-942-2020

DIAMOND BUILDERS INC. P.O. BOX 2200 DOUGLASS, GEORGIA 31534		440 THOMPSON DR. (912) 384-7080	
DATE: 2-1-22	REVISIONS:	BY:	K.E.D.
SCALE: NO SCALE		BY:	R.E.G.
CODES: SEE NOTES			
STATES: MD, VA, NC, NJ			
REFERENCE: 9727			
DBI/24x40 A/B STOCK- EDUCATION		SHEET	AD-1
ACCESSIBLE DETAILS		MD. PLAN NO: DBI-24x40 MD	

LIFE SAFETY PARAMETERS	
1. USE/OCCUPANCY:	EDUCATION-STOCK
2. BUILDING AREA	933 S.F.
3. OCCUPANT LOAD	<u>36</u> BASED ON <u>20</u> NET SF/PERSON

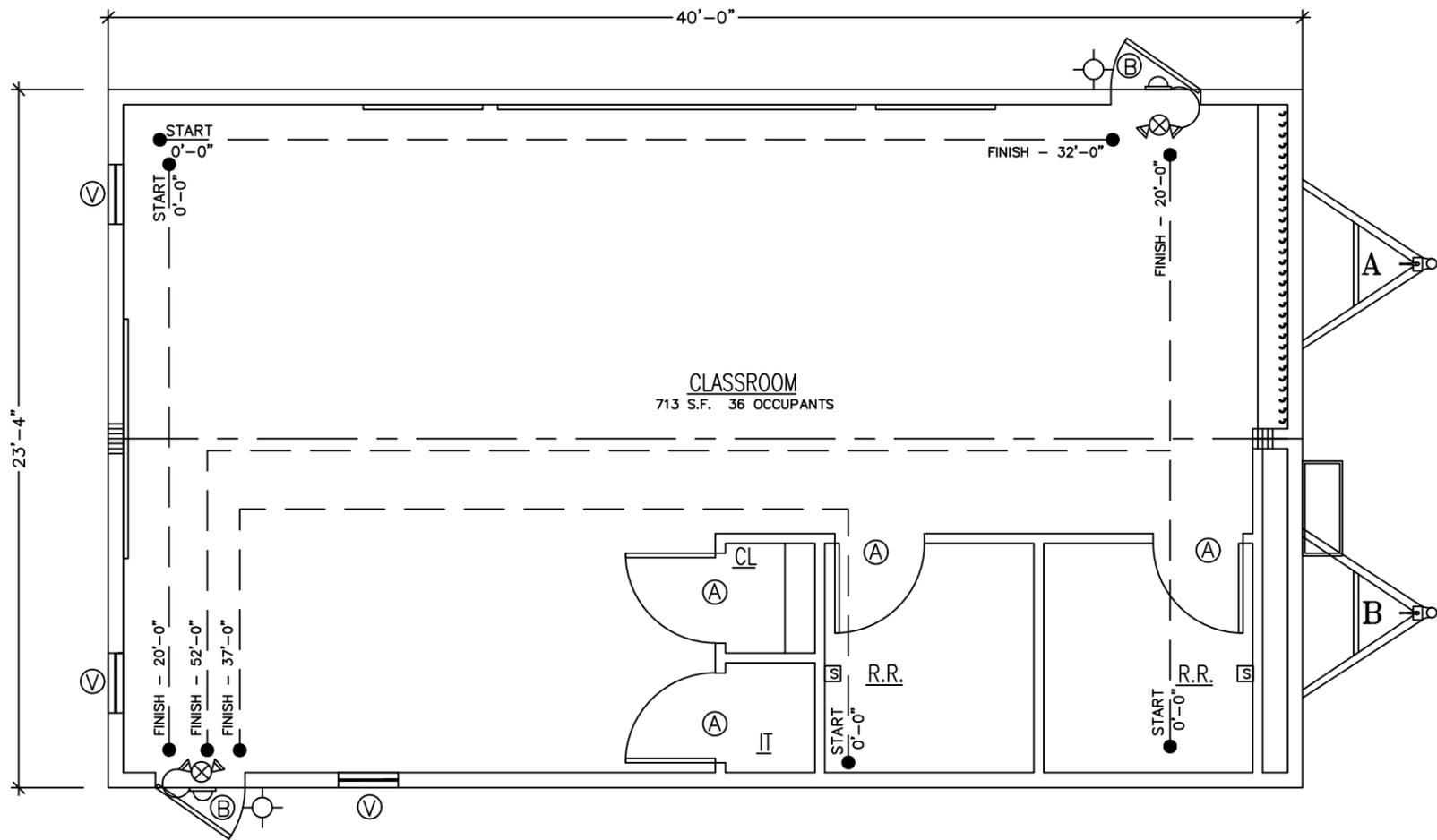
NOTE:
EACH EXIT DOOR IS ABLE TO ACCOMMODATE:

(2) 36x80 DOOR: 32" CLEAR WIDTH EACH
32/0.20 = 160 160 PERSON CAPACITY EACH
(2) AT 160 = 320 PERSON CAPACITY

NOTE:
MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 200 FEET

DOOR HARDWARE:
LEVER PRIVACY: RESTROOMS
KEYED LEVER LOCKSET (EXTERIOR DOORS)
LEVER PASSGE: OFFICES

SYMBOL	DOOR SCHEDULE	TOTAL
A	36"x80" HOLLOW CORE IMPERIAL OAK W/REDIFRAME	4
B	36"x80" STEEL/STEEL W/4X24" VIEW BLOCK	2
SYMBOL	WINDOW SCHEDULE	TOTAL
V	24"x54" VERTICAL SLIDE, INSULATED BRONZE/TINTED	3



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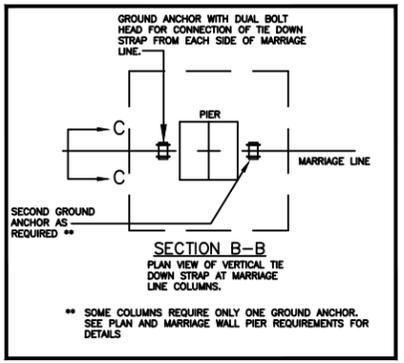
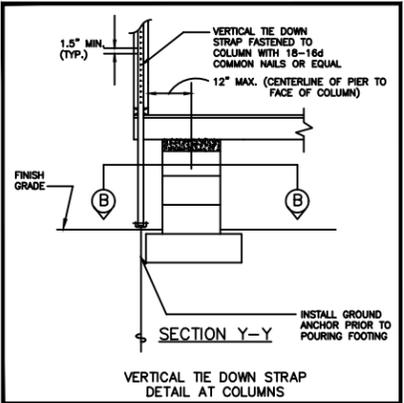
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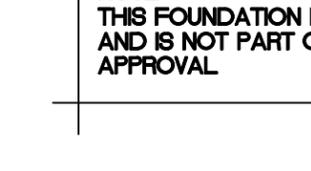
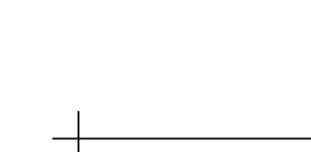
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DATE: 2-1-22	REVISIONS:	BY:	K.E.D.
SCALE: 3/16"=1'-0"		BY:	R.E.G.
CODES: SEE NOTES			
STATES: MD, VA, NC, NJ			
REFERENCE: 9727			
DBI24x40 A/B STOCK- EDUCATION		SHEET	
LIFE SAFETY	MD. PLAN NO: DBI-24x40 MD	LS-1	



NOTE:
THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY.

MARRIAGE WALL PIER REQUIREMENTS			
PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE DOWN STRAPS REQ'D (EACH MODULE)
1	2000 PSF	D	1
	3000 PSF	C	1

- FOUNDATION NOTES:**
- ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
 - TIE-DOWN STRAPS TO BE 1-1/4" x .035" TYPE-1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953-91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.
 - EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELICES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
 - THE FIRST TIE-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
 - ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.
 - MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
 - ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
 - SEE SHEET 1 OF 6 FOR BUILDING DESIGN LOADS.
 - I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
 - SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
 - INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY - OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
 - THE FOUNDATION DIMENSIONS SHOWN ON THE ABOVE LAYOUT ARE NOMINAL DIMENSIONS OF THE FACTORY AS BUILT MODULES AND DO NOT ACCOUNT FOR CAPS BETWEEN MODULES THAT MAY OCCUR DURING INSTALLATION. THE FOUNDATION DESIGNER, FOUNDATION CONTRACTOR AND MODULAR BUILDING INSTALLER MUST CONSULT TO DETERMINE IF ADJUSTMENTS TO PIER LOCATIONS ARE NEEDED TO ACCOUNT FOR TOLERANCES NEEDED DURING INSTALLATION OF THE BUILDING MODULES
 - THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.



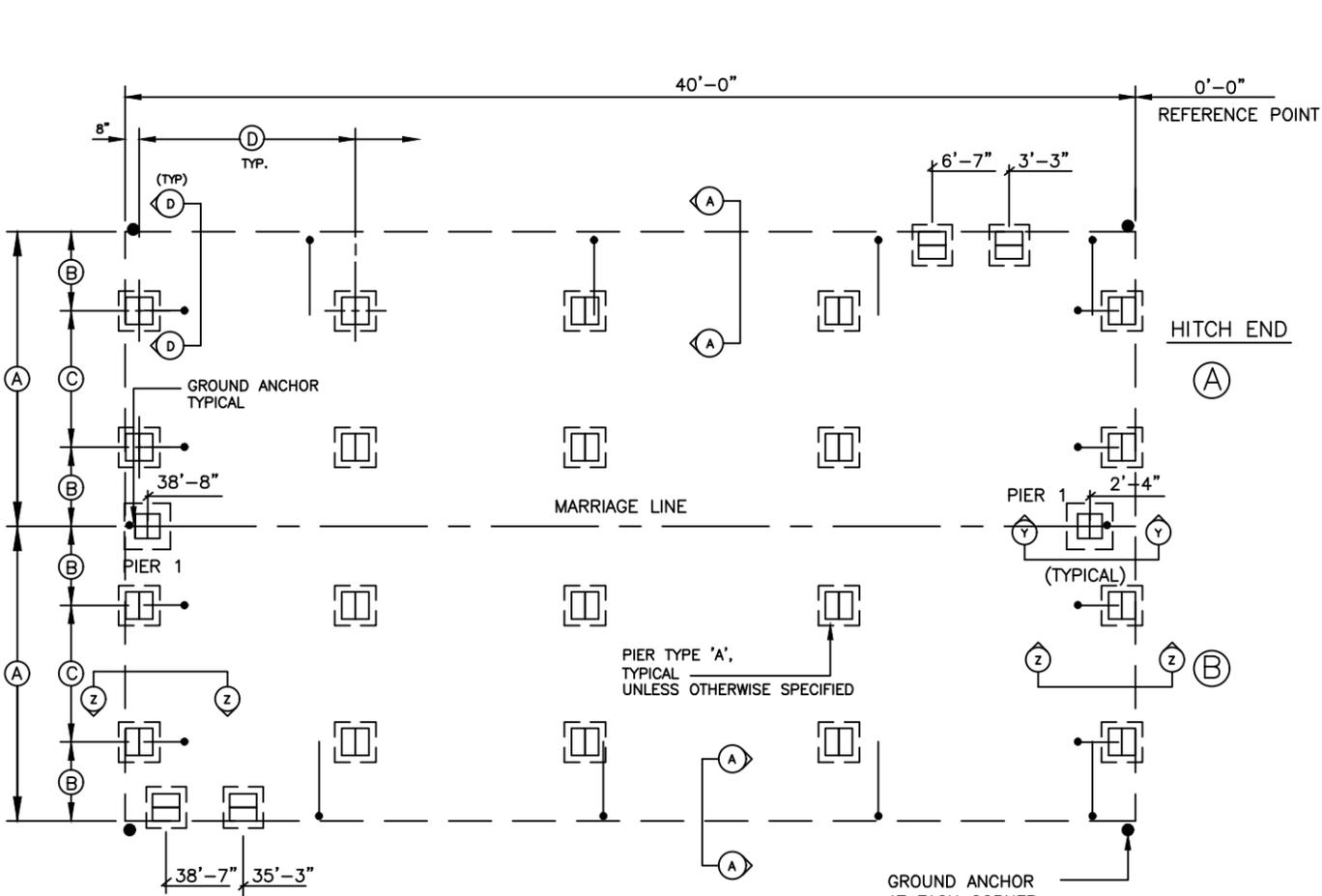
FOUNDATION DIMENSIONS NORTH CAROLINA		
A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'-8"	22 1/4"	95 1/2"

D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY
9'-0"	2000 PSF
9'-0"	3000 PSF

FOUNDATION DIMENSIONS ALL OTHER STATES		
A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'-8"	22 1/4"	95 1/2"

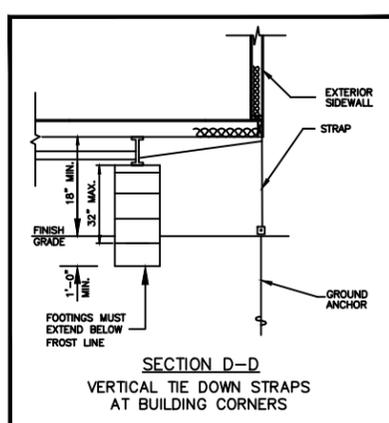
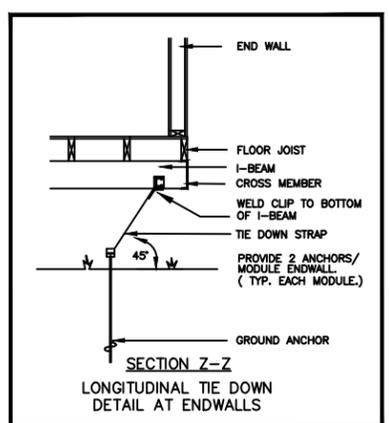
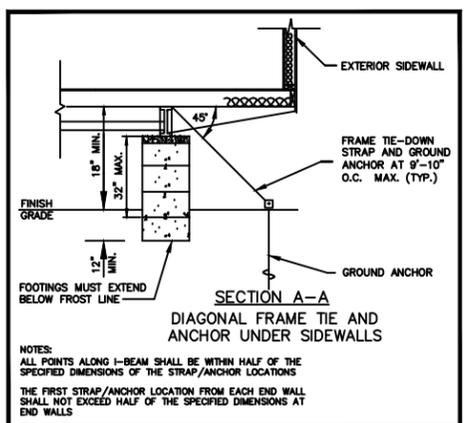
D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY
5'-8"	2000 PSF
8'-9"	3000 PSF

NOTE:
THE NUMBER OF PIERS SHOWN ON THIS FOUNDATION PLAN IS NO INDICATION OF THE AMOUNT OF PIERS REQUIRED AND NEEDED FOR THIS BUILDING. SEE MAXIMUM PIER SPACING CHARTS ABOVE FOR THE CORRECT NUMBER OF PIERS REQUIRED FOR EACH SOIL BEARING CAPACITY. ALSO THE NUMBER STRAPS (SPACING) WILL BE DETERMINED IN SECTION A-A. THE NUMBER OF ALL COMPONENTS OF THIS FOUNDATION PLAN CAN BE FOUND IN THE CHARTS AND DETAILS ABOVE.



NOTE:
THIS FOUNDATION PLAN IS FOR REFERENCE ONLY AND IS NOT PART OF THE STATE OF MARYLAND APPROVAL

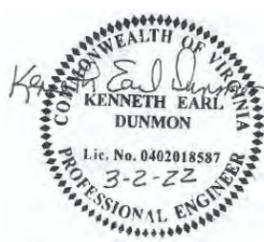
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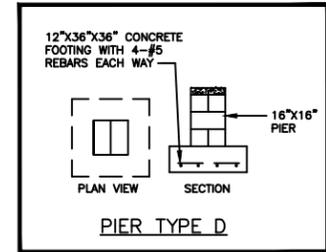
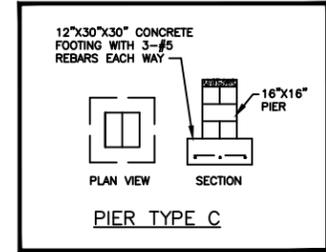
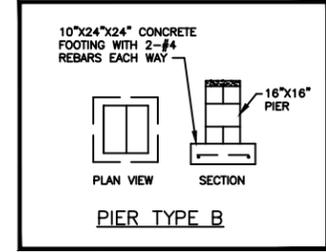
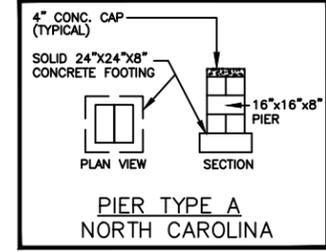
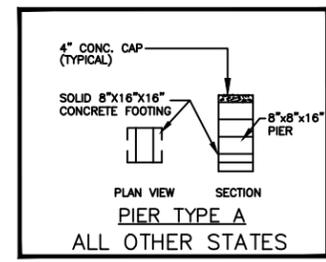
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FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA, AND AN 18" X 24" MINIMUM CRAWL SPACE ACCESS. SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.



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