PLUMBING NOTES:

1. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER IPC, NCPC SECTION 403 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

LIMITATIONS OF APPROVAL

1. THE APPROVAL OF THE PLAN UNDER THE INDUSTRIALIZED BUILDING COMMISSION PROGRAM IS PART OF THE MANUFACTURERS BUILDING SYSTEM APPROVAL.
2. 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 REQUIRMENTS.

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. ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. WITH 7 — 10 GA. x 7/16 INCH CROWN x 1 INCH STAPLES EACH END OF STRAP OR EQUIVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.
5. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. — TO 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" OF OVERHANG, GUTTERS AND DOWN SPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. 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 DESCRIBED IN SECTION 1609.1.2 OF THE IBC AND R308
9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
10. THIS BUILDING HAS BEEN DESIGNED FOR NORTH CAROLINE CLIMATE ZONE 4a.
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 22" MEASURED FROM THE FLOOR.

ELECTRICAL NOTES:

ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE

1. 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 OF 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. ALL 15 AND 20 AMP RECEPT FINELY SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER NEC.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
10. 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.
11. 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).
12. NEC SECTION 408.14 REQUIRES TAMPER RESISTANT RECAPTACLES IN SCHOOLS WITH KIDS AGED 7 YRS AND YOUNGER.

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 14 INCHES x 14 INCHES ADJUSTABLE (24 INCHES x 24 INCHES AT T-GRID CEILING) ADJUSTABLE WITH 8 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, 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 UNDEROUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN.
3. EXHAUST FANS SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL AIR INTAKE.
4. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 5 CFM PER OCCUPANT AND 0.08 CFM PER SQUARE FEET OF BUILDING AREA PER SECTION 403.3 OF IMC AND NCMC.
5. THERMOSTATS MUST BE PROGRAMMABLE
6. HEATING SYSTEM CONTROLS MUST BE CAPABLE TO 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 AND TEMPERATURES BELOW AN ADJUSTABLE COOLING SETPOINT 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.

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.

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 E1.2, 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, E2.5 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. THE BUILDING SHALL BE PROVIDED PER SECTION 716.2 AND 1406.2.4 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.

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. WINDOW AND DOOR HIGH WIND STORM COVERINGS (PER CODE) SEE GENERAL NOTE 8.
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 MATE(LINE(S) — (MULTI-UNITS ONLY)
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
9. EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY)
10. FIRE ALARM
11. CORRIDOR TORO CEILING ALONG WITH LIGHTS

STRUCTURAL LOAD LIMITATIONS OTHER STATES

BUILDING RISK CATEGORY: III

FLOOR LIVE LOAD:
A. 40 PSF, 100 PSF CORRIDOR
B. 1000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR
C. 50 PSF FOR FUTRE OFFICE CONVERSION

ROOF LIVE LOAD:
A. 30 PSF

SNOW LOAD:

A. Pg = 40 PSF	GROUND SNOW LOAD	
B. Pf = 30.8 PSF	FLAT ROOF SNOW LOAD	
C. Ce = 1.0	SNOW EXPOSURE FACTOR	
D. Is = 1.1	SNOW IMPORTANCE FACTOR	
E. Ct = 1.0	SNOW THERMAL FACTOR	
WIND LOAD:	ASCE 7-05	
A1 Vult = 150 MPH	WIND SPEED	
A2 Vasd = 116 MPH	WIND SPEED	
B. Iw = 1.0	WIND IMPORTANCE FACTOR	
C. C	WIND EXPOSURE CATEGORY	
D. GCpi= 0.18	INTERNAL PRESSURE COEFFICIENT	
E. Pr: ZONE 1: 29.4 PSF	Pw: ZONE 4: 31.9 PSF	
ZONE 2: 49.3 PSF	ZONE 5: 39.3 PSF	
ZONE 3: 74.2 PSF		

F. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:

A. Ie = 1.25	SEISMIC IMPORTANCE FACTOR
B. D	SITE CLASS
C. A15	SEISMIC FORCE RESISTING SYSTEM.
D. C	SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE	
F. Ss = ≤ .537	MAPPED SPECTRAL RESPONSE COEF.
G. S1 = ≤ .285	MAPPED SPECTRAL RESPONSE COEF.
H. Sds = ≤ .34	SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = ≤ .34	SPECTRAL RESPONSE COEFFICIENT
J. V = 12,354 LB	DESIGN BASE SHEAR
K. R = 6.5	RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.06	SEISMIC RESPONSE COEFFICIENT

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

STRUCTURAL LOAD LIMITATIONS NC

OCCUPANCY CATEGORY: III

FLOOR LIVE LOAD:
A. 40 PSF, 100 PSF CORRIDOR
B. 1000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR
C. 50 PSF FOR FUTRE OFFICE CONVERSION

ROOF LIVE LOAD:
A. 30 PSF

SNOW LOAD:

A. Pg = 40 PSF	GROUND SNOW LOAD	
B. Pf = 30.8 PSF	FLAT ROOF SNOW LOAD	
C. Ce = 1.0	SNOW EXPOSURE FACTOR	
D. Is = 1.1	SNOW IMPORTANCE FACTOR	
E. Ct = 1.0	SNOW THERMAL FACTOR	
WIND LOAD:	ASCE 7-05	
A. 110 MPH	WIND SPEED	
B. Iw = 1.15	WIND IMPORTANCE FACTOR	
C. C	WIND EXPOSURE CATEGORY	
D. GCpi= 0.18	INTERNAL PRESSURE COEFFICIENT	
Pr: ZONE 1: 28.5 PSF		
ZONE 2: 45.3 PSF		
ZONE 3: 76.59 PSF		

F. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:

A. Ie = 1.25	SEISMIC IMPORTANCE FACTOR
B. D	SITE CLASS
C. A13	SEISMIC FORCE RESISTING SYSTEM.
D. C	SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE	
F. Ss = ≤ .537	MAPPED SPECTRAL RESPONSE COEF.
G. S1 = ≤ .285	MAPPED SPECTRAL RESPONSE COEF.
H. Sds = ≤ .34	SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = ≤ .34	SPECTRAL RESPONSE COEFFICIENT
J. V = 12,354	DESIGN BASE SHEAR
K. R = 6.5	RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.06	SEISMIC RESPONSE COEFFICIENT

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

ACCESSIBILITY NOTES:

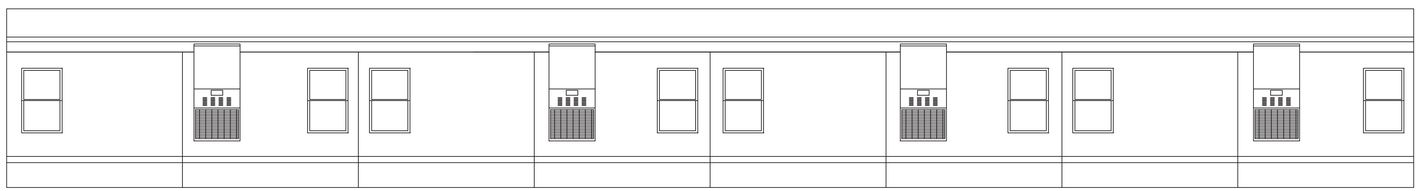
1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE 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. ACCESSIBLE DRINKING FOUNTAINS AND 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 OBSTRUCTED. CLOTHES RODS OR SHELVES SHALL BE 54 INCHES MAXIMUM ABOVE THE FLOOR FOR SIDE REACH. THE 54 INCH 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 AT LEAST 15 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED AT LEAST 15 INCHES ABOVE THE FLOOR. EXCEPTIONS: ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIED, 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,WHICH-EVER 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. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4 INCH IN HEIGHT. CHANGES IN LEVEL BET-WEEN 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. 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

ELEVATION NOTES: TYPICAL

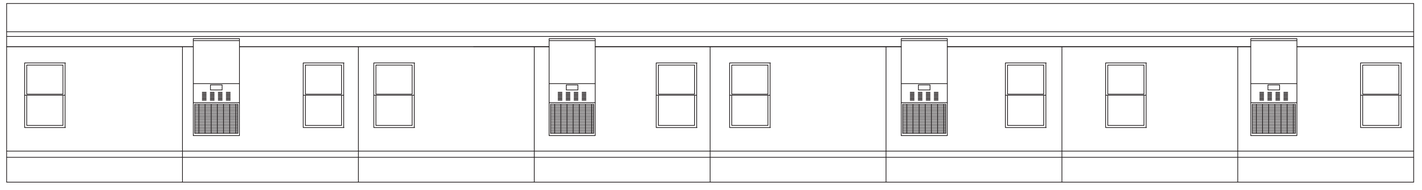
SEE-CROSS SECTION FOR METHOD OF ROOF VENTILATION

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.



RIGHT ELEVATION



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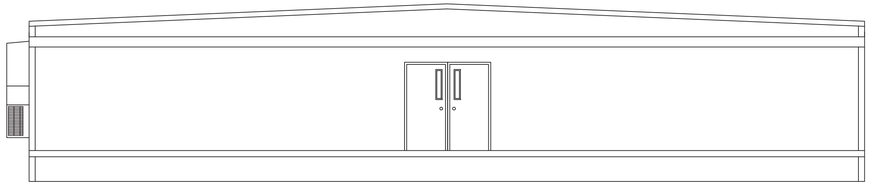
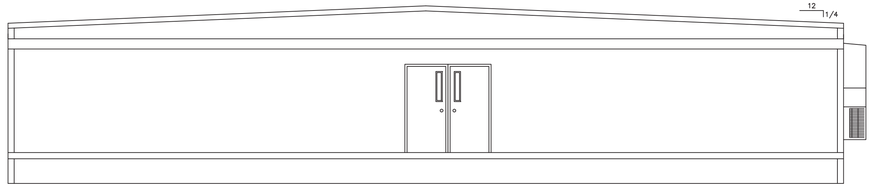


REAR ELEVATION



FRONT ELEVATION

MARYLAND NOTES:

1. REFER TO STATE PACKAGE PAGE NO. C32.0 FOR REQUIRED DUCT PROTECTION AT CONNECTION TO HVAC UNIT.
2. 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: GARRETT, ALLEGANY
3. 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.
4. THESE PLANS ARE PREPARED TO FACILITATE CONSTRUCTION OF THE PRE-ENGINEERED FACTORY BUILT MODULAR BUILDING, AND THEY INCLUDE MINIMUM ON-SITE SUPPORT AND TIE 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.
5. 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 RALATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERMENT AGENCY FOR REVIEW AND APPROVAL.
6. 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.
7. WHEN THE 2015 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 SEPERATED 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.

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILITY	ENERGY CODE
NEW JERSEY	2015 IBC W/ N.J. AMENDS	2014 NEC W/N.J. AMENDS	2015 IMC N.J. AMENDS	2015 NATL. STD PC (NSPC) W/ N.J. AMENDS	ICC/ANSI A117.1-2009	2013 ASHRAE 90.1 W/N.J. AMENDS
MARYLAND	2015 IBC 2015 NFPA 101 W/ MD. AMENDMENTS	2014 NEC W/ MD. AMEND.	2015 IMC.	2015 IPC W/ MD. AMEND.	2010 ADASAD 2012 MARYLAND ACCESS. CODE (2012 M.A.C.)	2015 IECC W/ MD. AMEND.
VIRGINIA	2012 VA. UNIFORM STATEWIDE BLDG. CD. 2012 IBC 2012 IFC W/VA. AMEND	2011 NEC	2012 IMC.	2012 IPC	ICC/ANSI A117.1-09	2012 IECC
N. CAROLINA	NCBC 2012 2012 NCFC	2017 N.C. ELECT. CODE	2012 NCMC	2012 NCPC	NCBC 2012 CHPT. 11 AND ICC/ANSI A117.1-2009	2012 NC ENERGY CODE

BUILDING DESIGN PARAMETERS

1.	USE/OCCUPANCY: AGE GROUP:	EDUCATION (PUBLIC) K THRU 8TH GRADE
2.	CONSTRUCTION TYPE:	VB
3.	SPRINKLER SYSTEM:	NO
4.	BUILDING AREA:	7216 S.F.
5.	BUILDING HEIGHT:	≤ 15 FEET
6.	NUMBER OF STORIES:	1
7.	NUMBER OF MODULES:	8
8.	OCCUPANT LOAD 286 BASED ON 20 NET SF/PERSON	
9.	EXTERIOR WALL FIRE RATING:	NOT RATED
10.	THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC, NCBC TABLE 602 AND SECTION 705.3.	
11.	ENGERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.	
12.	MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.	

R. JOHNSON
APPROVED
06 11 2018

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. 8588 EXPIRATION DATE: 6-6-20

MARYLAND SERIAL NO.:
7775A—7775B—7775C—7777D—7775E
7775F—7775G—7775H

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(727) 644-8193

VALID

COMMONWEALTH OF VIRGINIA — JAMES E. BRADLEY — Lic. No. 006836 — PROFESSIONAL ENGINEER

STATE OF MARYLAND — JAMES E. BRADLEY — No. 8588 — PROFESSIONAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 006836 ENGINEER JAMES E. BRADLEY

DIAMOND BUILDERS INC.
P.O. BOX 2256, DOUGLASS, GEORGIA 31534
440 THOMPSON DR. (912) 384-7080

DATE: 5-25-18	REVISIONS:
SCALE : AS NOTED	
CODES: SEE NOTES	
STATES: MD, VA, NC, NJ	BY: J.B.
DBI7775 A-H 109'-4" x 66'-0" EDUCATION	SHEET 1 OF 3
COVER SHEET	MD PLAN NO. DBI 7775 MD / DESTINATION: BALTIMORE, MD

PENETRATION OF FIRE RESISTANT WALLS AND CEILING:

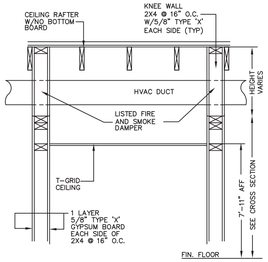
1. COMBUSTIBLE CABLES AND WIRES, COMBUSTIBLE PIPES, TUBES, AND CONDUIT SHALL MEET TESTING REQUIREMENTS OF ASTM E119 AS PART OF THE FIRE RESISTANT ASSEMBLY OR SHALL HAVE THROUGH-PENETRATION FIRESTOP SYSTEMS LISTED AND TESTED AS PER ASTM E814 OR UL 1479 TO PROVIDE AN F RATING EQUAL TO THE RATING WHEN THE EXPOSED AND UNEXPOSED SURFACES DO NOT LESS THAN .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 WIRES WITHOUT COMBUSTIBLE INSULATIONS AND NONCOMBUSTIBLE PIPES, TUBES, AND CONDUITS SHALL BE PROTECTED AS DESCRIBED ABOVE OR SHALL HAVE THE ANNULAR SPACE FILLED TO A DEPTH OF NOT LESS THAN 6 INCHES AND SHALL BE TESTED UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 1.01 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. BOXES SHALL NOT EXCEED 16 SQUARE INCHES. BOXES LARGER THAN 16 SQUARE INCHES SHALL BE PROTECTED OR 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 CLOSERS AND POSITIVE LATCHING HARDWARE.

WOOD STUD WALLS: 1 HOUR PER GA FILE NO. WP3520/WP3605
1 LAYER 5/8" TYPE 'X' GYPSUM EACH SIDE OF WALL.

DROP CEILING: 1 HOUR PER GA FILE NO. WP3605

7. CORRIDOR DAMPERS MUST BE FIRE AND SMOKE DAMPERS IN ACCORDANCE W/2015 IBC, SECTION 717.5.4.1 FOR ALL LOCATIONS THAT ADOPT THE 2015 IBC

NOTE:
WOOD 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.



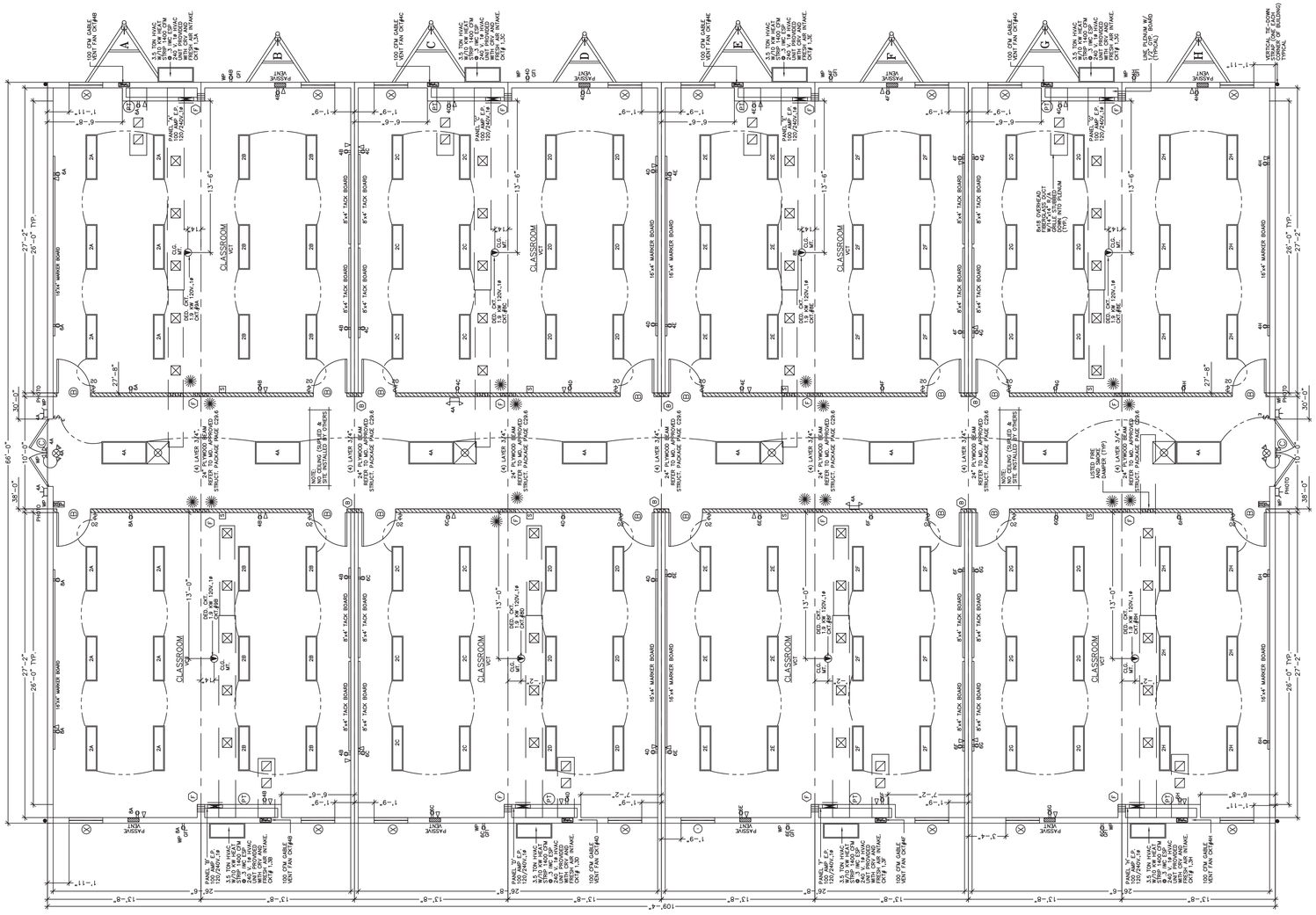
ONE HOUR CONSTRUCTION

WINDOW SCHEDULE

EXTERIOR:

36"x60" VERTICAL SLIDER +50/-50 DP INSULATED LOW-E, BRONZE ALUMINUM FRAME, TINTED GLASS

OPENING: 33.75"x 24.75" = 7.2 S.F.



SYMBOL	DOOR SCHEDULE	TOTAL
B	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK SMOKE RATED	16
C	72"x80"STEEL/STEEL 4X24 VIEW BLOCK WITH PANIC HARDWARE	2
SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"X60" VERTICAL SLIDE, INSULATED BRONZE/TINTED	16

ELECTRICAL SCHEDULE 'C'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'C'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 756 SF X 1.25=	2.9
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 18.2 KW
TOTAL/240 X 1000= 77 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'B'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 756 SF X 1.25=	2.9
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 18.2 KW
TOTAL/240 X 1000= 77 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'A'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 1992 SF X 1.25=	7.5
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 22.3 KW
TOTAL/240 X 1000= 93 AMPS
INSTALL 200 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'F'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'F'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 756 SF X 1.25=	2.9
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 18.2 KW
TOTAL/240 X 1000= 77 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'E'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'E'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 756 SF X 1.25=	2.9
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 18.2 KW
TOTAL/240 X 1000= 77 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'D'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'D'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 756 SF X 1.25=	2.9
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 18.2 KW
TOTAL/240 X 1000= 77 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'H'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'H'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 756 SF X 1.25=	2.9
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 18.2 KW
TOTAL/240 X 1000= 77 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'G'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (QTY.)
1, 3	HVAC	60 A (2P) HACR	#12 (#12 GRND.)
5	DED. OUT. 1.8KW 120V./1#	20 A(1P)	12-2 NM
4, 6	RECEPTACLES/FAN	20 A	12-2 NM
2	LIGHTING	20 A	12-2 NM

ELECTRICAL PANEL SIZING: PANEL 'G'

DESCRIPTION	KVA
GENERAL LIGHTING .0030 KW/SF X 756 SF X 1.25=	2.9
9__RECEPTS AT 180VA/1000=	1.6
DED. OUT 1.0KW x 1.25 =	2.4
7__FANS AT .3 KW X 1.25=	1.5
HVAC	10.9

TOTAL 18.2 KW
TOTAL/240 X 1000= 77 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

SYMBOLS

J-BOXES ONLY.

- FIRE ALARM PULL STATION
- FIRE ALARM HORN/STROBE
- FIRE ALARM STROBE LIGHT
- JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- INCANDESCENT LIGHT WITH 1- 60 W. BULB
- COMPACT FLOURESENT LIGHT 1-60 W. BULB
- CLG. MT. POWERED J-BOX
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2-150W BULBS
- THERMOSTAT
- FLUORESCENT FIXTURE WITH 2-32W TUBES
- 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

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.

R. JOHNSON
APPROVED
06 11 2018

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. 8586
EXPIRATION DATE: 6-6-20

CONSULTING ARCHITECT
ROBERT E. GREGG R.A. LIC.#15414
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DATE: 5-25-18	REVISIONS:
SCALE : 3/16"=1'-0"	
CODES: SEE NOTES	
STATES: MD, VA, NC, NJ	BY: J.B.
DBI7775 A-H	SHEET 2 OF 3
109'-4" x 66'-0" EDUCATION	
FLOOR PLAN	MD PLAN NO. DBI 7775 MD — DESTINATION: BALTIMORE, MD

INTERIOR FINISH MATERIAL:

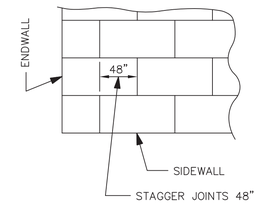
CORRIDOR CEILING	–	BARE (T–GRID CEILING SUPPLIED AND INSTALLED BY OTHERS, INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION
CLASSROOM CEILING	–	BARE (1/2" GYP BOARD SUPPLIED AND INSTALLED BY OTHERS, INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION (SEASPRAY)
WALL	–	5/8" TYPE 'X' GYPSUM BOARD (VCG THROUGHTOUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS.
FLOOR	–	AS NOTED ON 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 60 MIL (BLACK) EPDM FULLY ADHERED IN ACCORDANCE W/ESR 1776 OVER 7/16" MULE–HIDE FR DECK PANEL 'C' INSTALLED PER MANUFACTURERS SPECIFICATIONS.

WALL – 7/16" SMART PANEL SIDING OVER APPROVED MOISTURE BARRIER. INSTALLED PER MANUFACTURERSSPECIFICATIONS.

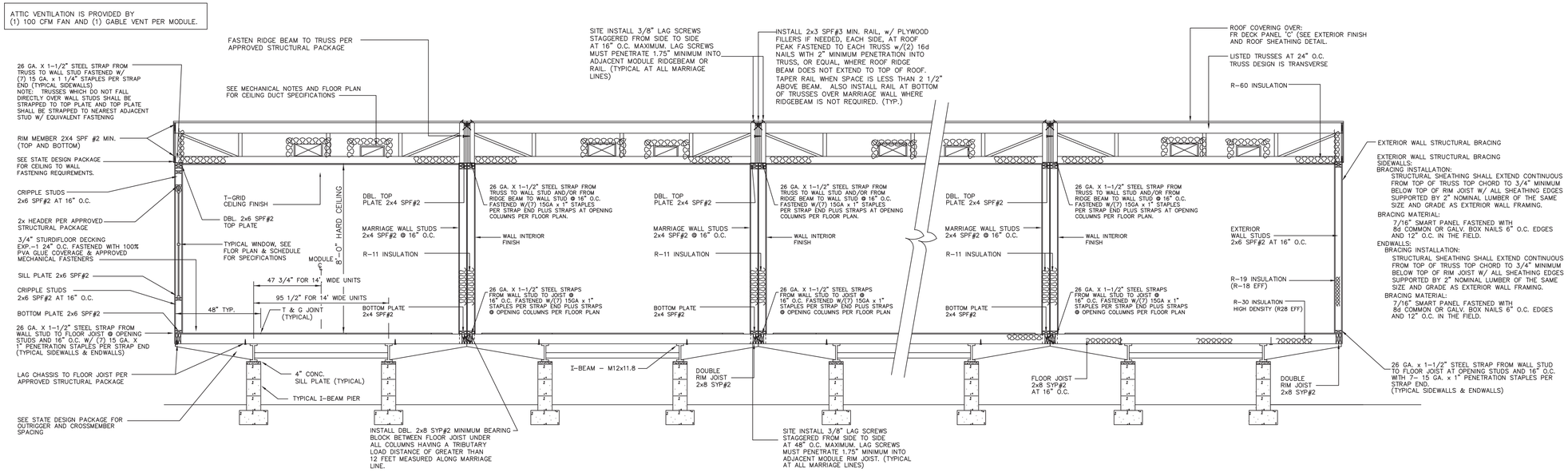


MULEHIDE:
FR DECK PANEL 'C' TO BE FASTENED TO TRUSSES PER APPROVED STRUCTURAL PACKAGE

ROOF SHEATHING DETAIL

APPROVED TRUSS DESIGN:
SOUTHERN
TRUSS PAGE # : WOOD COMPONENTS
TRUSS DRAWING. # SWF3063
OR REFER TO ATTACHED DWG.

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



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APPROVED
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RIDGE BEAM CONSTRUCTION:

(SEE FLOOR PLAN) 3/4" PLYWOOD, RATED SHEATHING, EXP.–1, STRUCT.–1, 5 PLY/5 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 OR PLYWOOD FLANGES ARE PERMITTED.
4. PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS I–95.
5. 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 (SEE APPROVED PACKAGE FOR MECHANICAL FASTENER SPECIFICATIONS & SPACING REQUIRMENTS
6. PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
7. MOISTURE CONTENT MUST BE LESS THAN 16%.
8. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
9. 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.

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. F_{YIELD} 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER AND TIE–DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

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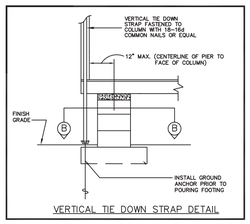
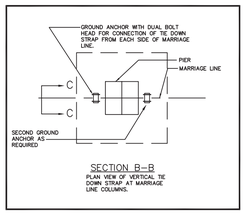
DBI7775 A–H 109'–4" x 66'–0" EDUCATION	SHEET 3 OF 3
CROSS SECTION	MD PLAN NO. DBI 7775 MD / DESTINATION: BALTIMORE, MD

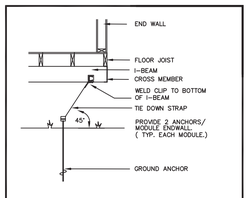


VERTICAL TIE DOWN STRAP DETAIL

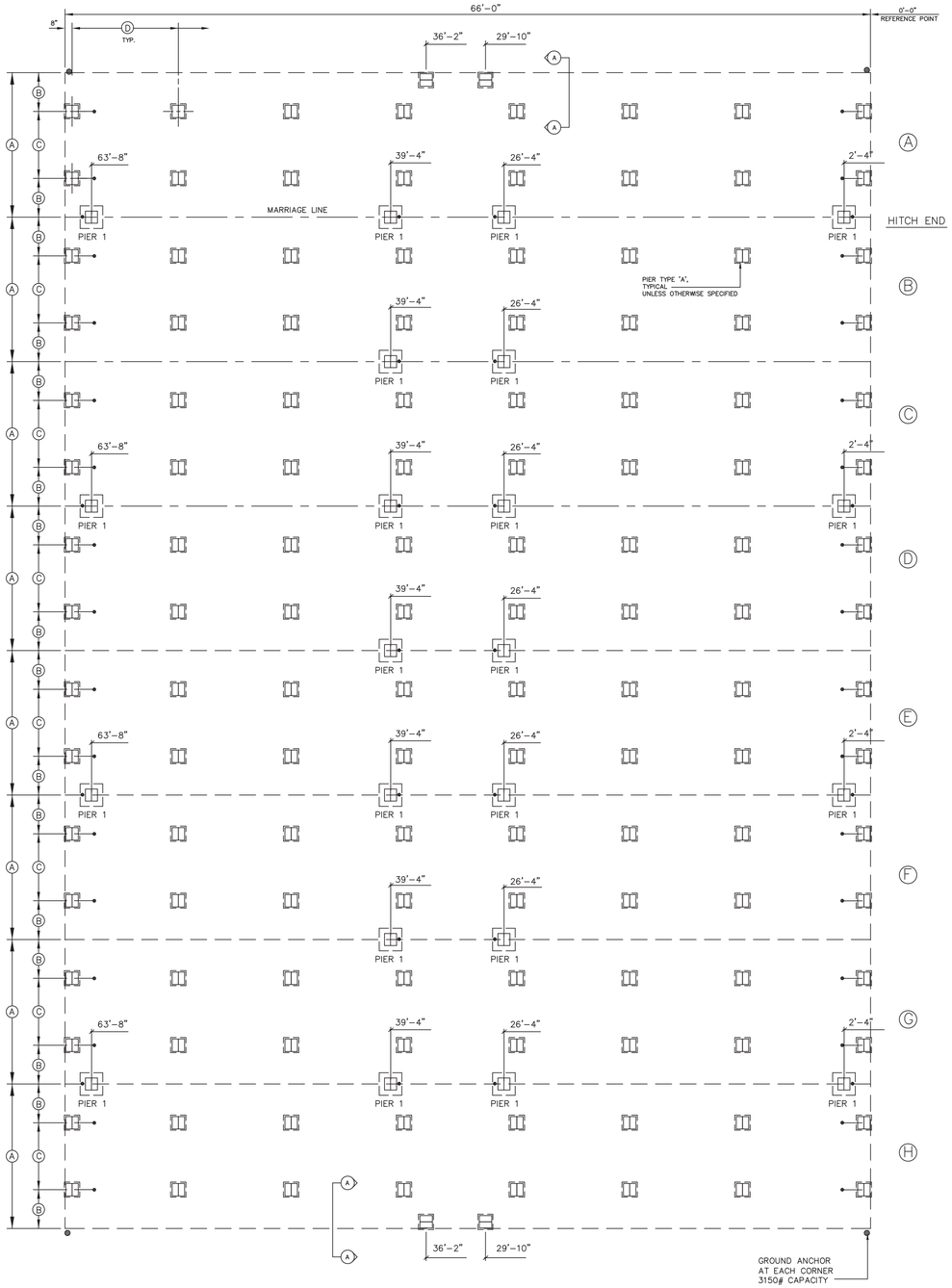


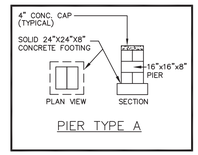
SECTION B-B

PLAN VIEW OF VERTICAL TIE DOWN STRAP AT MARRIAGE LINE COLUMNS.

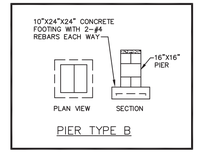


Z-Z ENDWALL TIE DOWN DETAIL

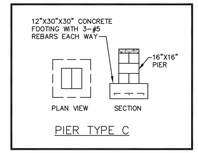




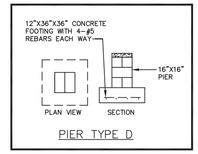
PIER TYPE A



PIER TYPE B



PIER TYPE C



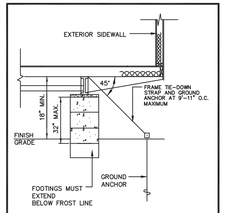
PIER TYPE D

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:

1. ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. 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.
3. 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 HELIXES, 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.
4. THE FIRST TIE-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
5. 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.
6. MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
7. 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.
8. SEE SHEET 1 OF 3 FOR BUILDING DESIGN LOADS.
9. 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.
10. 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.
11. 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.
12. THE FOUNDATION DIMENSIONS SHOWN ON THE ABOVE LAYOUT ARE NOMINAL DIMENSIONS OF THE FACTORY BUILT MODULARS AND DO NOT ACCOUNT FOR GAPS 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
13. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.

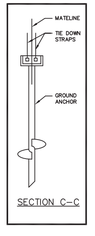


SECTION A-A

NOTES:
ALL POINTS ALONG I-BEAM SHALL BE WITHIN HALF OF THE SPECIFIED DIMENSIONS OF THE STRAP/ANCHOR LOCATIONS

THE FIRST STRAP/ANCHOR LOCATION FROM EACH END WALL SHALL NOT EXCEED HALF OF THE SPECIFIED DIMENSIONS AT END WALLS

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.



SECTION C-C

FOUNDATION DIMENSIONS

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
13'-8"	34 1/4"	95 1/2"
D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY	
9'-0"	2000 PSF	
9'-0"	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.

EMC
R. JOHNSON
APPROVED
06 11 2018

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. 30588, EXPIRATION DATE: 5-6-20

CONSULTING ARCHITECT
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JAMES E. BRADLEY
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PROFESSIONAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036889 ENGINEER JAMES E. BRADLEY

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

DATE: 5-25-18	REVISIONS:
SCALE : NO SCALE	
CODES: SEE NOTES	
STATES: MD, VA, NC, NJ	BY: J.B.
DBI7775 A-H 109'-4" x 66'-0" EDUCATION	SHEET 1 OF 1
FOUNDATION	MD PLAN NO. DBI 7775 MD. DESTINATION: BALTIMORE, MD