ACCESSIBILITY NOTES:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (I.E. TOUCH LATCHES, U-SHAPED PULLS); SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH; CLOTHES RODS OR COAT HOOKS SHALL BE A MAXIMUM OF 48 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR, EXCEPTION; HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY PROVIDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING,WHICH-EVER IS LOWER.
6. ALL DOORS SHALL BE OPERABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE FOR PUSHING OPEN A DOOR SHALL BE AS FOLLOWS: FIRE DOORS SHALL HAVE THE MINIMUM FORCE EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR HINGED DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. 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 SHALL BE RAMPED. RAMPS SHALL NOT EXCEED 1:12 SLOPE. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 1.25 INCHES TO 1.5 INCHES DIAMETER AND LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WIDE, LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL.
9. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
10. ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. KNEE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE, AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (I.E. LEVER-OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
13. MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
16. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER – OPERATED, PUSHTYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
17. TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.
18. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVTORIES.

STRUCTURAL LOAD SPECIFICATIONS–ASCE 7–10

FLOOR LIVE LOAD:
A. 100 PSF
B. 1000# CONCENTRATED LOAD OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 30 PSF.

ROOF SNOW LOAD:
A. GROUND SNOW LOAD: P_g = 20 PSF
B. FLAT-ROOF SNOW LOAD: P_f = 14 PSF
C. SNOW EXPOSURE FACTOR: C_e = 1.0
D. SNOW IMPORTANCE FACTOR: I_s = 1.0
E. SNOW THERMAL FACTOR: C_t = 1.1
F. SLOPED ROOF FACTOR: C_s = 1.0
G. SLOPED ROOF SNOW LOAD: P_s = .7$C_s C_e C_t I_s P_f$
H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7–10.

WIND LOAD:
A. ULTIMATE WIND SPEED (3–SEC GUST): Vult = 150 MPH
B. NOMINAL WIND SPEED (3–SEC GUST): Vasd = 124 MPH
C. RISK CATEGORY: II
D. WIND EXPOSURE CATEGORY: EXP. = C
E. INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18
F. COMPONENT & CLADDING ULTIMATE DESIGN PRESSURES (NOMINAL DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES.
WALL ZONE 5: Pult = +/– 74.8 PSF (Pasd = +/– 44.9 PSF)
WALL ZONE 4: Pult = +/– 60.6 PSF (Pasd = +/– 36.4 PSF)
ROOF ZONE 3: Pult = – 179.0 PSF (Pasd = +/–107.4 PSF)
ROOF ZONE 2: Pult = – 135.4 PSF (Pasd = +/– 81.8 PSF)
ROOF ZONE 1: Pult = – 102.3 PSF (Pasd = +/– 61.9 PSF)

G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
H. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT IN A TSUNAMI INUNDATION ZONE.
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 ACCELERATION COEFFICIENTS:
S_s = 0.52 S_1 = 0.23
S_{DS} = 0.48 S_{D1} = 0.19
E. SEISMIC DESIGN CATEGORY IS B.
F. BUILDING SEISMIC RESISTANCE SYSTEM IS A15.
G. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
H. RESPONSE MODIFICATION FACTOR R = 6.5.
I. SEISMIC RESPONSE COEFFICIENT C_S = 0.08
J. DESIGN BASE SHEAR V = 8703 LBS

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

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES x 24 INCHES 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 UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR LIMITED DOORS)
3. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 10 CFM PER PERSON & 0.12 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF THE IMC AND NCMC.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. THERMOSTAT MUST BE PROGRAMMABLE.
6. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET & URINAL AND SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL INTAKE.

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.

ATTENTION LOCAL INSPECTIONS DEPARTMENT

SITE INSTALLED ITEMS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY EMC AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL.

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

SPECIAL CONDITIONS AND REQUIRMENTS

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

GENERAL NOTES:

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTIONS AND TIE DOWN REQUIRMENTS
5. STRAPPING MUST BE TESTED AND/OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY. APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
6. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
7. A FIRE ALARM MUST BE SITE INSTALLED ON SITE BY OTHERS SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE GENRAL CONTRACTOR AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
9. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. – 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
10. IN WIND–BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIRMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND–BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC.
11. THIS BUILDING IS COMPLIES WITH OR EXCEEDS MINIMUM REQUIRMENTS FOR TN. THERMAL ZONE 4a.
12. SPRINKLER SYSTEM DESIGNED BY OTHERS AND INSTALLED ON SITE BY A PROPERLY LICENSED SPRINKLER CONTRACTOR, SUBJECT TO REVIEW AND APPROVAL BY THE LOCAL FIRE AND BUILDING CODE AUTHORITY.
13. FOR NC INSTALLATION, REQUIRED EGRESS WINDOWS SHALL HAVE BOTTOM OF CLEAR OPENING NOT GREATER THAN 44" MEASURED FROM THE FLOOR. FOR CLASSROOMS SERVING 5TH GRADE AND LOWER THE BOTTOM OF THE CLEAR OPENING SHALL NOT BE MORE THAN 32" MEASURED FROM THE FLOOR.
14. THIS BUILDING COMPLIES WITH OR EXCEEDS MINIMUM REQUIREMENTS FOR NC CLIMATE ZONE 4a.

PLUMBING NOTES:

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. FLOORS SHALL HAVEA SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES.
3. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
4. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
5. WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR.
6. DHW SYSTEM SHALL BE EITHER ABS OR PVC – DWV.
7. WATER SUPPLY LINES SHALL BE PEX OR CPVC, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
8. WATER CLOSET ARE TWO TYPES AND URINALS ARE FLUSH VALVE TYPE UNLESS OTHERWISE SPECIFIED
9. BUILDING DRAIN AND SEWER ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
10. WATER HEATER SHALL BE APPROVED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
11. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
13. WATER, SOIL AND WASTE PIPES IN UNCONDITION SPACES SHALL BE INSULATED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
14. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMP LIMITING DEVICE THAT IS DESIGNED TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110°F(43°C)
15. THE WATER HEATER SHALL HAVE CONTROLS TO ALLOW A SET POINT OF 60 DEGREES F. THE OUTLET TEMPERATURE OF LAVATORIES SHALL BE LIMIT TO 110 DEGREES F.
16. LAVATORY FAUCETS MUST BE OF THE METERING TYPE (NCPC SECTION 604.4.1)

ELECTRICAL NOTES:

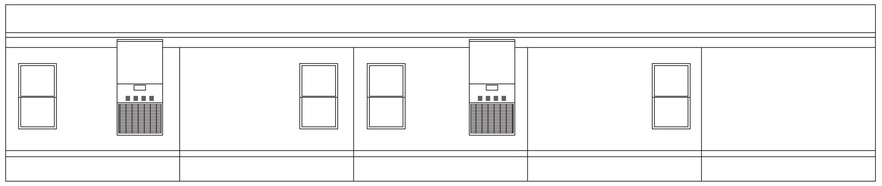
1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLE OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS, THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "CLOSET STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410.2.
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A BUILDING MANAGEMENT SYSTEM.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLI–ANCE W/ARTICLES 110.8 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
8. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. THE RECEPT ITSELF 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. THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 101 AND NFPA 72 AND SITE INSTALLED BY OTHERS SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. THE FIRE ALARM CONTROL PANEL MUST BE INSTALLED IN A HIGHLY VISIBLE LOCATION ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. (THE FACP CANNOT BE INSTALLED IN A CLOSET OR BATHROOM).
11. 15 AND 20 AMP RECEPTACLES OUTLETS SHALL BE TAMPER RESISTANT
12. MANUAL FIRE ALARM SYSTEM TO BE INSTALLED THAT INITIATES OCCUPANT NOTIFICATION SIGNALES UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS PER 2012 IBC SECTION 907.5.2.2 AND SECTION 907.6

WINDOW SPECIFICATIONS:

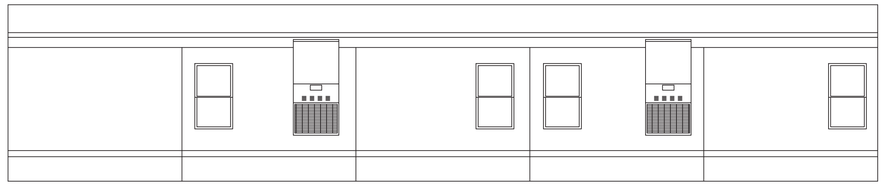
1. VINYL, LOW–E
2. VERT. SLIDER
3. DOUBLE PANE CLEAR GLASS
4. Uo = 0.34
5. SHGC = 0.25
6. MAX. ALLOWABLE AIR LEAKAGE RATE: 0.3 CFM (PER SQ. FT. OF WINDOW AREA)

EXT. DR. SPECIFICATIONS:

1. SOLID
2. STEEL/STEEL
3. Uo = 0.153
4. SWINGING
5. MAX. ALLOWABLE AIR LEAKAGE RATE: 0.3 CFM (PER SQ. FT. OF DOOR AREA)



LEFT ELEVATION



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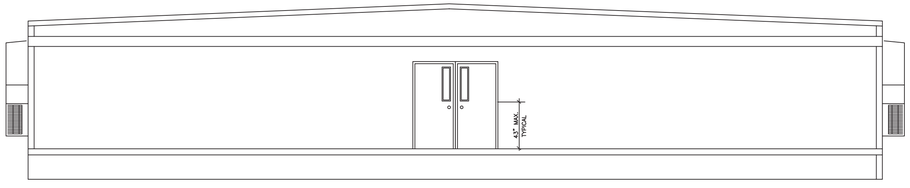
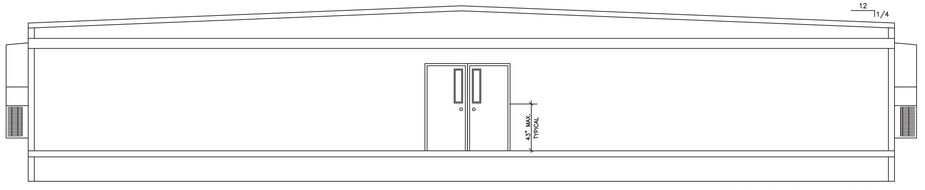


REAR ELEVATION



FRONT 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.

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

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 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 THE FOUNDATION PLAN.
3. ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES 1M–6 INSTALLATION INSTRUCTIONS (IF APPLICABLE)
4. MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES 1M–7 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES 1M–5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE)
6. FIRE BLOCKING SHALL BE PROVIDED PER SECTION 718.2 & 1406.2.3 OF THE 2018 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.

R. JOHNSON
APPROVED
09 24 2024

BUILDING DESIGN PARAMETERS

1.	USE/OCCUPANCY:	EDUCATION
2.	CONSTRUCTION TYPE:	VB
3.	SPRINKLER SYSTEM:	YES
4.	BUILDING AREA:	4510 S.F.
5.	BUILDING HEIGHT:	≤ 15 FEET
6.	NUMBER OF STORIES:	1
7.	NUMBER OF MODULES:	5

8. OCCUPANT LOAD 136 BASED ON 20 NET SF/PERSON IN CLASSROOMS.
9. EXTERIOR WALL FIRE RATING: NOT RATED
10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC, NCBC TABLE 602 & SECTIONS 705.3 & 705.5
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.

DRAWING INDEX

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILITY	ENERGY CODE
N. CAROLINA	NCBC 2018 2018 NCFPC	2020 N.C. ELECT. CODE	2018 NCMC	2018 NCPC	NCBC 2018 CHPT. 11 AND ICC/ANSI A117.1–2009	2018 NC ENERGY CODE
TENNESSEE	2012 IBC EXCEPT CH 11 & CH 34 SECTION 3411 ACCESSIBILITY 2012 NFPA 101 LIFE SAFETY CODE SAFETY GLAZING T.C.A. 68–120–301 TO 306 FIRE 2012 IFC	2017 NEC W/AMEND	2012 IMC	2012 IPC	2010 ADASAD	2012 IECC W/AMEND

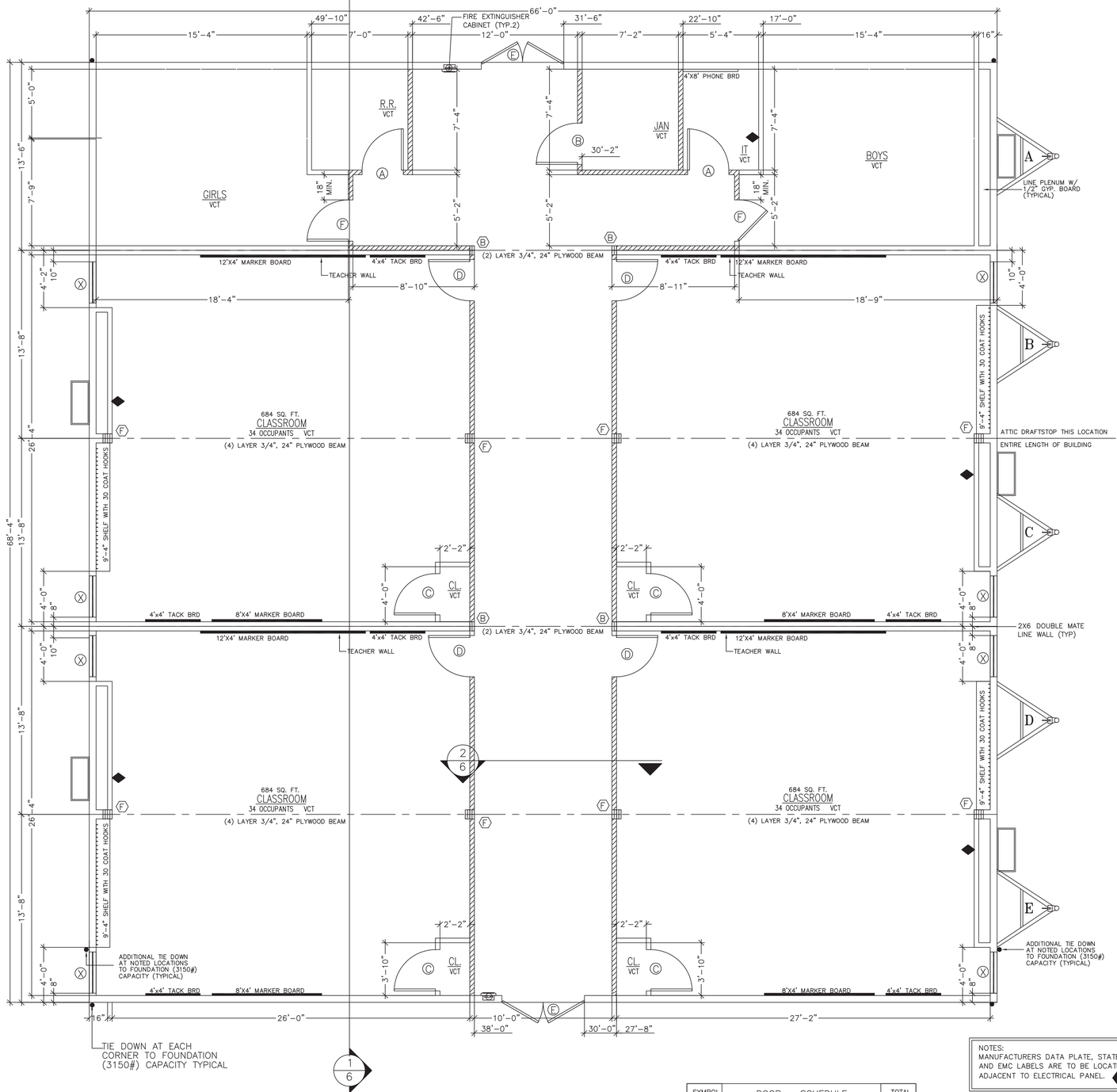
CONSULTING ENGINEER: NADER TOMASBI, P.E. – 58665 GLENRIVER DRIVE – GOSHEN, IN. 46528 – 574–370–3419

NADER TOMASBI — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 109918 — STATE OF TENNESSEE
09/24/2024

NORTH CAROLINA PROFESSIONAL SEAL 17084 ENGINEER NADER TOMASBI
09/24/2024

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

DATE: 8–14–24	REVISIONS:
SCALE : NO SCALE	1 9–8–24 CORRECT BUILDING SIZE FROM 68'–4" x 64'–0" TO 68'–4" x 66'–0"
CODES: SEE NOTES	
STATES: TN, NC.	BY: N.T.
REFERENCE: 11552–53	
DBI 70x66 MG (2024) EDUCATION–STOCK	SHEET 1 OF 6
COVER SHEET	TN. PLAN NO: DBI–216



PENETRATION OF FIRE RESISTANT WALLS AND CEILING:

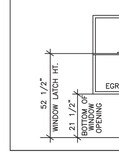
1. COMBUSTIBLE CABLES AND WIRES, COMBUSTIBLE PIPES, TUBES, AND CONDUIT SHALL MEET TESTING REQUIREMENTS OF ASTM E119 AS PART OF THE FIRE RESISTANT ASSEMBLY OR SHALL HAVE THROUGH-PENETRATION FIRESTOP SYSTEMS TESTED IN ACCORDANCE WITH ASTM E814 AND BE TESTED AT A POSITIVE PRESSURE DIFFERENTIAL BETWEEN THE EXPOSED AND UNEXPOSED SURFACES OF NOT LESS THAN 01 INCH OF WATER AND UNEXPOSED SURFACES 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 WITH A SYSTEM TESTED IN ACCORDANCE WITH ASTM E814 OR SHALL BE WITH A MATERIAL MEETING THE REQUIREMENT OF ASTM E119 TESTED UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF .01 INCH OF WATER FOR A TIME PERIOD EQUIVALENT TO THE RATING OF THE ASSEMBLY.
3. ELECTRICAL BOXES SHALL BE METAL OR LISTED FOR USE IN FIRE RESISTANT ASSEMBLIES AND SHALL NOT EXCEED 16 SQUARE INCHES. BOXES LARGER THAN 16 SQUARE INCHES SHALL BE PROTECTED OR SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
4. WOOD STUDS WALLS: 1 HOUR PER GA FILE NO. UL-U305
   (2x4 AND 2x6) 1 LAYER 5/8" TYPE 'X' GYPSUM EACH SIDE OF WALL. — 2x4 RATED WALL
5. 1 HOUR CORRIDOR WALLS TERMINATE AT THE ROOF DECK
6. ALL FIRE RATED DOORS SHALL HAVE LISTED DOOR, FRAME, AND HARDWARE NO LESS THAN THE TIME RATING SPECIFIED ON THIS FLOOR PLAN. IN ADDITION, FIRE RATED DOORS SHALL BE EQUIPPED WITH SELF CLOSERS AND POSITIVE LATCHING HARDWARE.
7. DUCT PENETRATIONS OF 1 HOUR RATED CORRIDOR WALLS MUST BE EQUIPPED WITH SMOKE AND FIRE DAMPERS
8. ALL PENETRATIONS ON 1 HOUR RATED CORRIDOR WALLS SHALL BE FIRE CAULKED WITH METACAULK 1000 OR EQUAL
9. ALL WALL TO WALL AND WALL JOINTS IN THE 1 HOUR RATED CORRIDOR WALLS SHALL BE FIRE CAULKED WITH METACAULK 1000 OR EQUAL

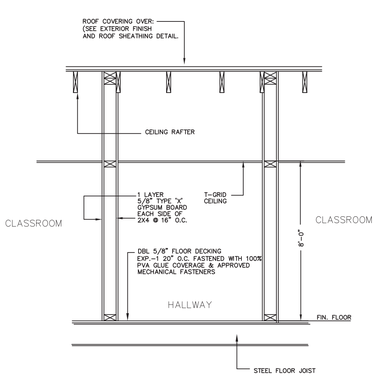
NOTE:
VISION PANELS IN 20 MIN. RATED DOORS MUST COMPLY WITH THE FOLLOWING REQUIREMENTS:
A. THE GLAZING MUST BE SAFETY GLAZED
B. THE GLAZING MUST BE 20 MINUTE RATED
C. THE BOTTOM OF THE GLAZED PANEL MUST BE A MAXIMUM OF 43 INCHES ABOVE FINISHED FLOOR.

WINDOW SCHEDULE

EXTERIOR:
36"x60" VERTICAL SLIDER +50/-50 DP INSULATED LOW-E, WHITE VINYL FRAME, TINTED GLASS

OPENING: 33.375"x 27 = 5.7 S.F.





2 1 HR. CORRIDOR CONSTR.
NTS UL-U305

COLUMN STRAPPING SCHEDULE:

(A) (2) 2x4 SYP #2 THIS HALF. (B) (2) 2x4 SYP #2 EACH HALF
(C) (3) 2x4 SYP #2 THIS HALF. (D) (3) 2x4 SYP #2 EACH HALF.
(E) (4) 2x4 SYP #2 THIS HALF. (F) (4) 2x4 SYP #2 EACH HALF.
(G) (5) 2x4 SYP #2 THIS HALF. (H) (2) 2x6 SYP #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.

NOTES:
MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL. ◆

SYMBOL	DOOR SCHEDULE	TOTAL
A	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MINUTE/SMOKE RATED, SELF CLOSING WITH LEVER HARDWARE, PRIVACY	2
B	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 45 MINUTE/SMOKE RATED, SELF CLOSING WITH LATCHING LEVER HARDWARE	1
C	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MIN. CLASSROOM CLOSET DOORS	4
D	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MINUTE/SMOKE RATED, SELF CLOSING WITH LATCHING LEVER HARDWARE WITH 4"x24" VIEW BLOCK WITH SAFETY GLASS, FIRE RATED, SMOKE RATED	4
E	72"X80" STEEL/STEEL W/4"X24" VIEW PANEL WITH SAFETY GLASS, PANIC HARDWARE	2
F	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MINUTE/SMOKE RATED, SELF CLOSING WITH PUSH/PULL WITH LATCH	2

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"X60" VERTICAL SLIDE, INSULATED BRONZE/TINTED WHITE VINYL WINDOW (EMERGENCY ESCAPE)	8

R. JOHNSON
APPROVED
09 24 2024

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NADER TOMASBI — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 109918 — STATE OF TENNESSEE
09/24/2024

NORTH CAROLINA PROFESSIONAL SEAL 17084 ENGINEER NADER TOMASBI
09/24/2024

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

DATE: 8-14-24
SCALE : NO SCALE
CODES: SEE NOTES
STATES: TN, NC
REFERENCE: 11052-53

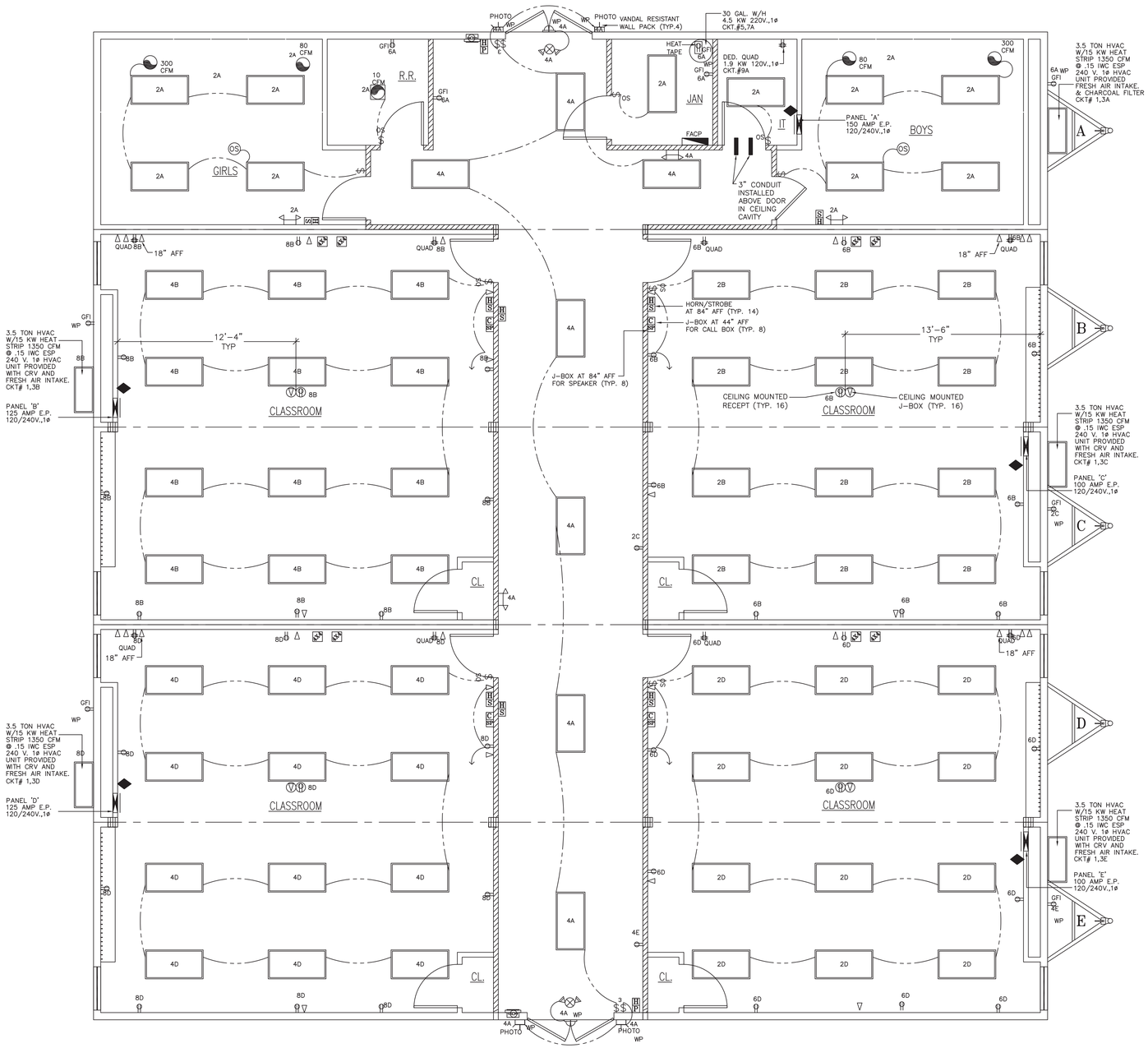
REVISIONS:
1 9-8-24 CORRECT BUILDING SIZE FROM 68'-4" X 64'-0" TO 68'-4" x 66'-0"

BY: N.T.

DBI 70x66 MG (2024)
EDUCATION-STOCK

FLOOR PLAN
TN. PLAN NO: DBI-216

SHEET 2 OF 6



NM CABLE SHALL NOT BE USED WHERE INTERIOR FINISH HAS LESS THAN A 15 MIN. FIRE RATING TYPE AC OR OTHER APPROVED WIRING METHODS SHALL BE USED WHEN USING LESS THAN 1/2" GYP. WALL SHEATHING

ELECTRICAL SCHEDULE 'C'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	90 A (2P) HACR	4-2 #8 GRND.
2	RECEPTACLES	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'C'	KVA
2 RECEPTS AT 180VA/1000=		.5
DED. OCT. 1.3KW x 1.25 =		–
–FANS AT .3 KW X 1.25=		–
HVAC		15.9
TOTAL 16.4 KW		
TOTAL/240 X 1000= 69 AMPS		
INSTALL 100 AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	90 A (2P) HACR	4-2 #8 GRND.
6, 8	RECEPTACLES	20 A	12-2 NM
2, 4	LIGHTING AND POWERED J-BOX	15 A	14-2 MC

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 2074 SF X 1.25=		7.8
26 RECEPTS AT 180VA/1000=		4.7
WATER HEATER 6.5 KW =		–
–FANS AT .3 KW X 1.25=		–
HVAC		15.9
TOTAL 28.4 KW		
TOTAL/240 X 1000= 119 AMPS		
INSTALL 125 AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	90 A (2P) HACR	4-2 #8 GRND.
5, 7	WATER HEATER	30 A(2P)	10-2 NM
9	DED. OCT. 1.3KW 120V.,1ø	20 A(1P)	12-2 NM
6	RECEPTACLES	20 A	12-2 NM
2, 4	LIGHTING,FAN	15 A	14-2 MC

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 2282 SF X 1.25=		8.5
5 RECEPTS AT 180VA/1000=		1.0
WATER HEATER 4.5 KW x 1.25 =		5.6
–FANS AT .3 KW X 1.25=		–
HVAC		15.9
DED. QUAD 1.9 KW x 1.25 =		2.4
TOTAL 35.3 KW		
TOTAL/240 X 1000= 147 AMPS		
INSTALL 150 AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'E'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	90 A (2P) HACR	4-2 #8 GRND.
4	RECEPTACLES	20 A	12-2 NM

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'E'	KVA
2 RECEPTS AT 180VA/1000=		.5
WATER HEATER 6.5 KW =		–
–FANS AT .3 KW X 1.25=		–
HVAC		15.9
TOTAL 16.4 KW		
TOTAL/240 X 1000= 69 AMPS		
INSTALL 100 AMP PANEL		
120/240 V 1Ø		

ELECTRICAL SCHEDULE 'D'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	90 A (2P) HACR	4-2 #8 GRND.
6, 8	RECEPTACLES	20 A	12-2 NM
2, 4	LIGHTING AND POWERED J-BOX	15 A	14-2 MC

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'D'	KVA
GENERAL LIGHTING		
.0030 KW/SF X 1534 SF X 1.25=		5.8
22 RECEPTS AT 180VA/1000=		4.0
WATER HEATER 6.5 KW =		–
–FANS AT .3 KW X 1.25=		–
HVAC		15.9
TOTAL 26.6 KW		
TOTAL/240 X 1000= 111 AMPS		
INSTALL 125 AMP PANEL		
120/240 V 1Ø		

NOTE:
RECEPTS ON OPPOSITR SIDES OF FIRE RATED WALL MUST BE 24" MIN. APART

SYMBOLS

J-BOXES ONLY.

- F — FIRE ALARM PULL STATION AT 44" AFF
- H — FIRE ALARM HORN/STROBE VOICE AT 80" AFF
- S — FIRE ALARM STROBE LIGHT VOICE AT 84" AFF
- SP — SPEAKER AT 84" AFF
- C — CALL BOX AT 44" AFF
- JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- CLG. MT. J-BOX
- SD — SMOKE DETECTOR
- OS — CEILING MOUNT OCCUPANCY SENSOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- QUAD RECEPTACLE 120 V.
- CLG. MT. POWERED J-BOX
- VENT FAN
- COMB. VENT FAN AND 12W. LED LIGHT
- VANDEL RESISTANT LED WALL PACK
- T — THERMOSTAT
- LED LIGHT FIXTURE WITH 40W. PANEL
- EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
- LED EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT SIGN W/BATTERY BACKUP
- EMERGENCY LIGHT WITH BATTERY BACKUP
- TP — TELEPHONE JACK
- S, S3 — SWITCH & 3 WAY SWITCH
- OS — OCCUPANCY SENSOR SWITCH
- FE — FIRE EXTINGUISHER

NOTES:
MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL. ◆

EMC
R. JOHNSON
APPROVED
09 24 2024

CONSULTING ENGINEER: NADER TOMASBI, P.E. – 58665 GLENRIVER DRIVE – GOSHEN, IN. 46528 – 574-370-3419

NADER TOMASBI — REGISTERED ENGINEER — AGRICULTURE — GRAINES — No. 109918 — STATE OF TENNESSEE
09/24/2024

NORTH CAROLINA PROFESSIONAL SEAL 17084 ENGINEER NADER TOMASBI
09/24/2024

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

DATE: 8-14-24	REVISIONS:
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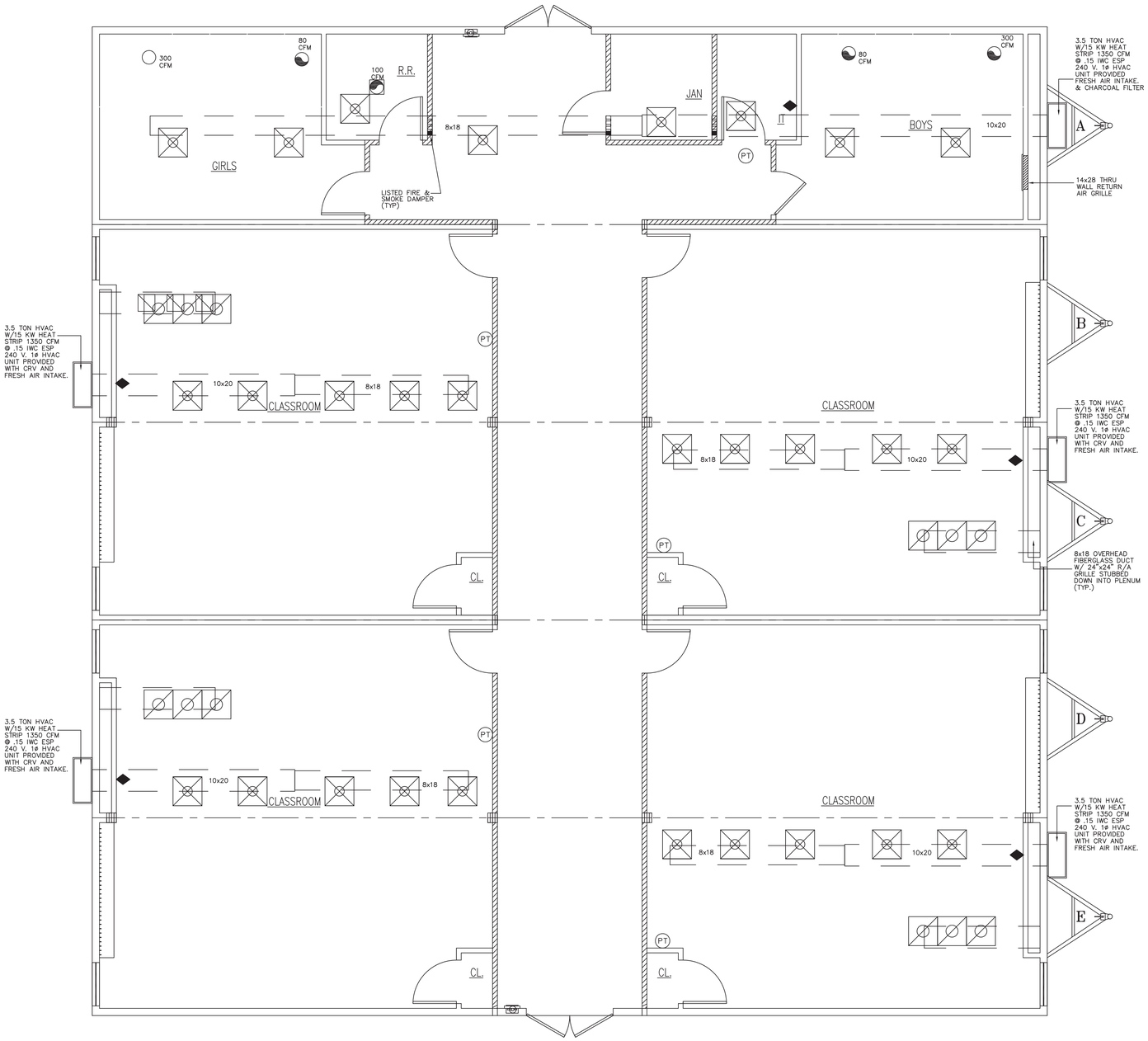
CODES: SEE NOTES	
STATES: IN, NC	BY: N.T.
REFERENCE: 11552-53	SHEET 3 OF 6
DBI 70x66 MG (2024) EDUCATION-STOCK	
ELECTRICAL	TN. PLAN NO: DBI-216



LEGEND

- 24"x24" RETURN AIR GRILLE
- 24"x24" SUPPLY AIR GRILLE
- EXHAUST FAN
- 6"x10" SUPPLY AIR GRILLE
- (T) THERMOSTAT PROGRAMMABLE

NOTES:

ACOUSTICAL CEILING TILE INSTALLED PER MANUFACTURERS SPECIFICATIONS (MOISTURE RESISTANT IN RESTROOMS) BY OTHERS.

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

SEE ATTACHED BARD SPECIFICATIONS FOR ALL REQUIRMENTS AND INFORMATION REGUARDING HVAC INSTALLATION AND OPERATING PROCEDURES

SPRINKLER HEADS THAT COME INTO INTSALLATION PROBLEM DUE TO LIGHTS AND HVAC GRILLES WILL BE MOVED AS LITTLE AS POSSIBLE

NOTES:
MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL. ◆

EMC
R. JOHNSON
APPROVED
09 24 2024

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE OWNER No. 109918 STATE OF TENNESSEE
09/24/2024

NORTH CAROLINA PROFESSIONAL SEAL 17084 ENGINEER NADER TOMASBI
09/24/2024

CONSULTING ENGINEER: NADER TOMASBI, P.E. – 58665 GLENRIVER DRIVE – GOSHEN, IN. 46528 – 574-370-3419

DIAMOND BUILDERS INC.
P.O. BOX 2220, DOUGLASS, GEORGIA 31534
440 THOMPSON DR. (912) 384-7080

DATE: 8-14-24	REVISIONS:
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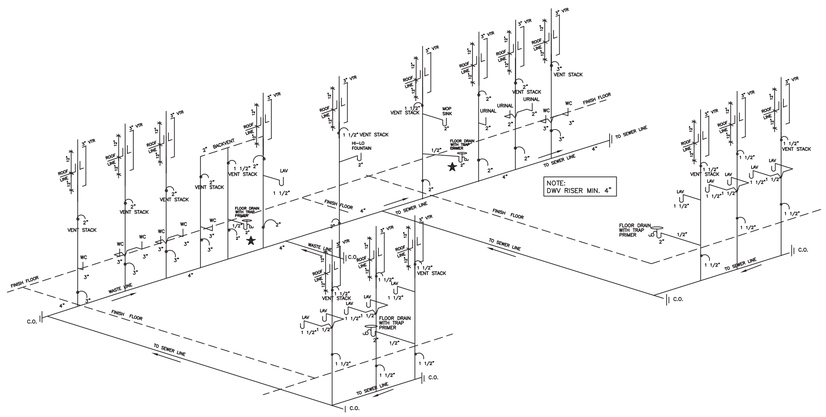
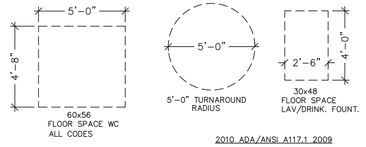
STATES: TN, NC.	BY: N.T.
REFERENCE: 11552-53	
DBI 70x66 MG (2024) EDUCATION-STOCK	SHEET 4 OF 6
MECHANICAL	TN. PLAN NO: DBI-216



DWV RISER NTS



60x56
FLOOR SPACE WC
ALL CODES

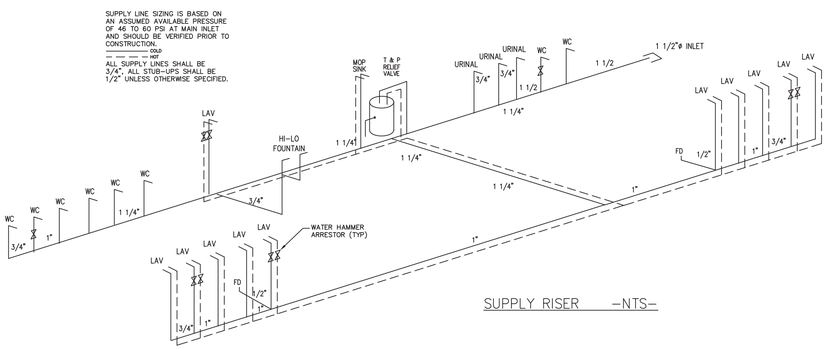
5'-0" TURNAROUND
RADIUS

30x48
FLOOR SPACE
LAV/DRINK. FOUNT.

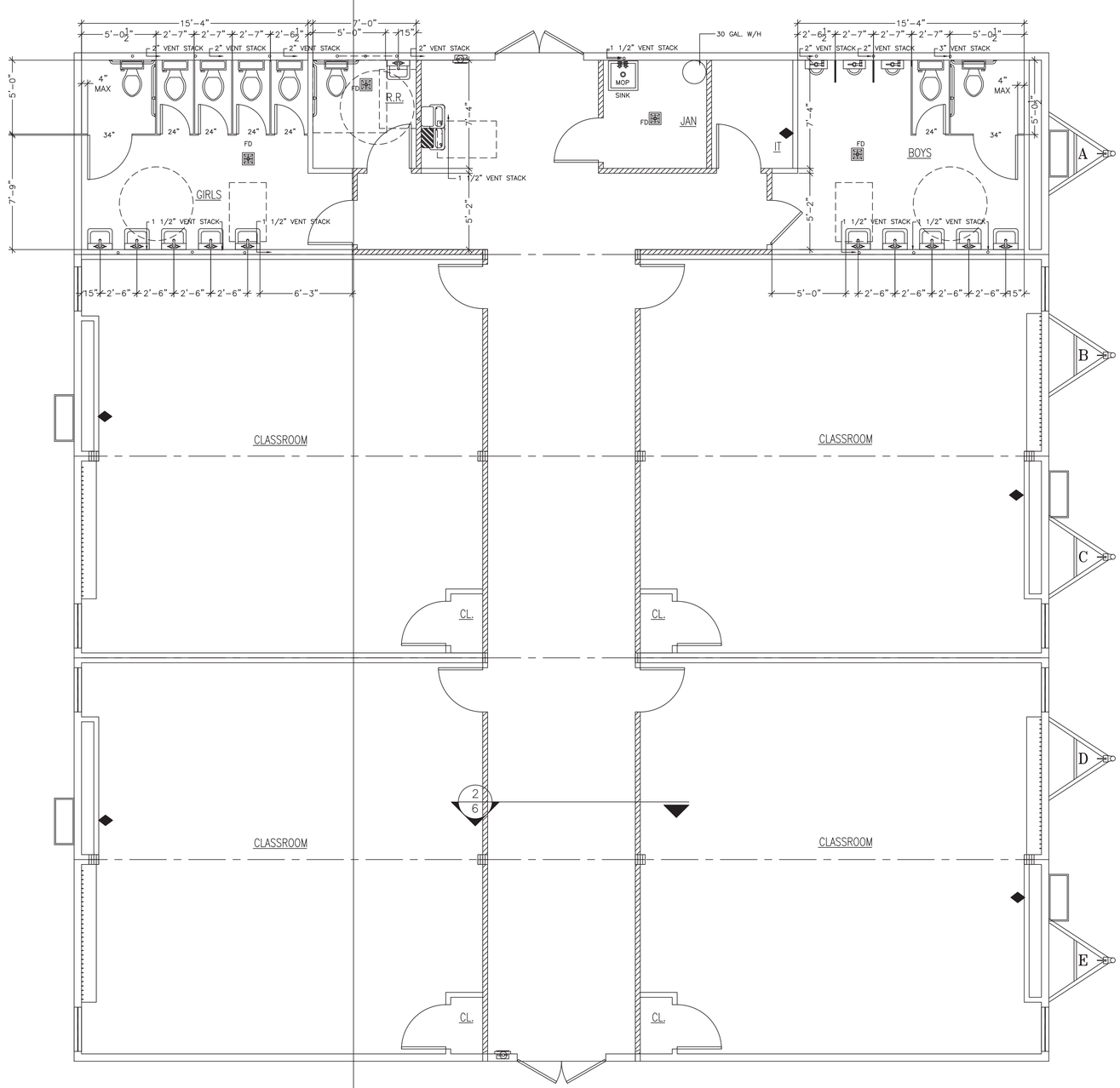
2010 ADA/ANSI A117.1 2009

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.



SUPPLY RISER –NTS–



NOTES:
MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

R. JOHNSON
APPROVED
09 24 2024

CONSULTING ENGINEER: NADER TOMASBI, P.E. – 58665 GLENRIVER DRIVE – GOSHEN, IN. 46528 – 574-370-3419

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE No. 109918 STATE OF TENNESSEE
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DBI 70x66 MG (2024) EDUCATION-STOCK	SHEET
PLUMBING	TN. PLAN NO: DBI-216 — 5 OF 6

EXTERIOR FINISH MATERIAL:

ROOF – MULE–HIDE 60 MIL (WHITE) EPDM (ESR–1463) FULLY ADHERED TO 7/16" OSB OR 1/2" PLYWOOD WITH MULE–HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCRR–1078 (CLASS C ROOF)

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

INTERIOR FINISH MATERIAL:

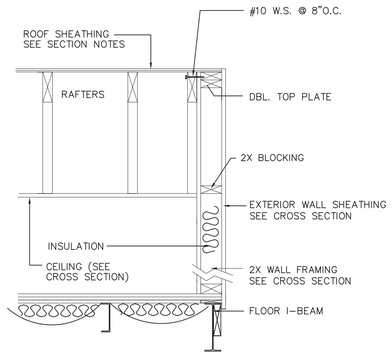
CEILING – T–GRID CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS

WALL – 5/8" TYPE 'X' GYP. BOARD (VCG THROUGHOUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS

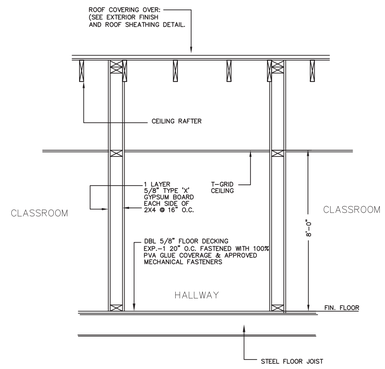
FLOOR – AS NOTED ON FLOOR PLAN

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.

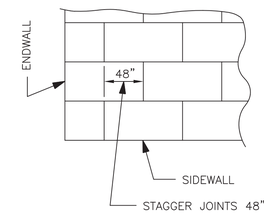
NOTE:
FOUNDATION PIERS AND FOOTINGS SHOWN ARE FOR REPRESENTATION ONLY, REFER TO FOUNDATION PLAN FOR DESIGN DETAILS



BALLOON END WALL DETAIL



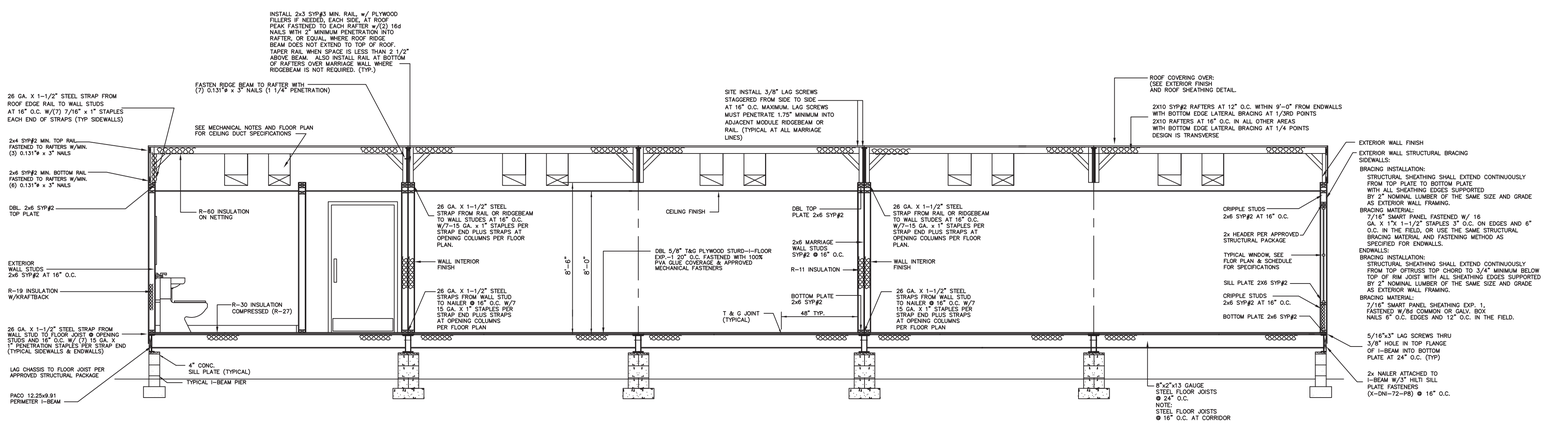
2 CORRIDOR CONSTR. DETAIL
NTS UL–U305

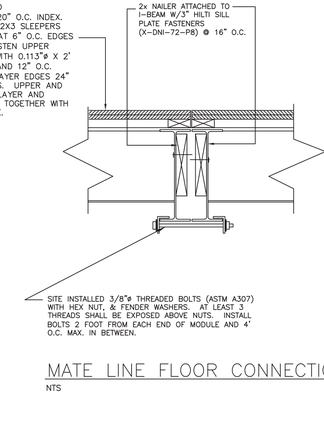


ROOF SHEATHING
FASTENED TO RAFTERS W/0.099"ø x 2" NAILS AT 6" O.C. ON EDGES & 6" O.C. IN THE FIELD ON ALL ZONES

ROOF SHEATHING DETAIL

SEE DBI DESIGN PACKAGE PAGES FOR DIAGONAL BRACING AND ROOF JOIST GUSSET DETAILS. C35.0–35.3 (2012/2015 IBC)





MATE LINE FLOOR CONNECTION
NTS

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. Fvg= 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER AND TIE–DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

- TYPICAL FOUNDATION LAYOUT SHOWN IS TO AID THE SITE ENGINEER/ARCHITECT FOR ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS. TYPICAL FOUNDATION IS NOT INTENDED TO BE ALL INCLUSIVE, NOR DOES THIS SET DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. COMPLIANCE WITH ALL APPLICATED CODES PER LOCAL AUTHORITY HAVING JURISDICTION WHETHER DETAILED IN THIS SET OR NOT MUST BE MET.

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 1–95.
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" SYP#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.

EMC
R. JOHNSON
APPROVED
09 24 2024

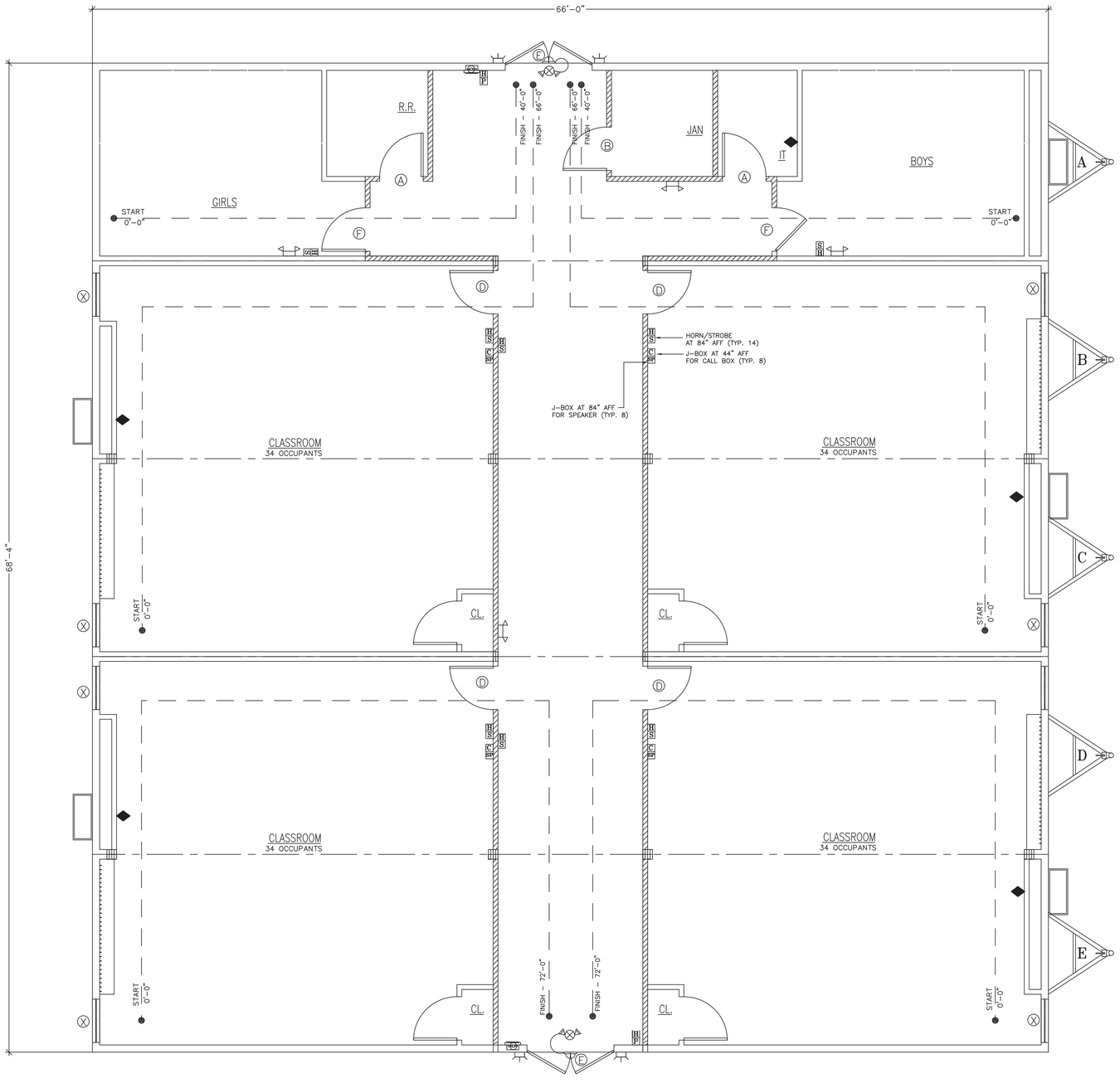
CONSULTING ENGINEER: NADER TOMASBI, P.E. – 58665 GLENRIVER DRIVE – GOSHEN, IN. 46528 – 574–370–3419

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE
09/24/2024

NORTH CAROLINA PROFESSIONAL SEAL 17084 ENGINEER NADER TOMASBI
09/24/2024

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

DATE: 8–14–24	REVISIONS:
SCALE: NO SCALE	CORRECT BUILDING SIZE FROM 68'–4" x 64'–0" TO 68'–4" x 66'–0"
CODES: SEE NOTES	1 9–8–24
STATES: TN, NC.	BY: N.T.
REFERENCE: 11552–53	
DBI 70x66 MG (2024) EDUCATION–STOCK	SHEET 6 of 6
CROSS SECTION	TN. PLAN NO: DBI–213



R. JOHNSON
APPROVED
09 24 2024

NOTES:
MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

LIFE SAFETY PARAMETERS

1. USE/OCCUPANCY: EDUCATION
2. BUILDING AREA 4510 S.F.
3. OCCUPANT LOAD:
   OCCUPANT LOAD 136 BASED ON 20 NET SF/PERSON IN CLAEEROOMS.
   4 CLASSROOMS AT 693/20 SQ. FT. = 34 OCCUPANTS

NOTE:
EACH EXIT DOOR IS ABLE TO ACCOMMODATE:

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

CORRIDOR:
96" CLEAR 96/0.20 = 480 PERSON CAPACITY

NOTE:
MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 200 FEET WITHOUT SPRINKLER
MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 250 FEET WITH SPRINKLER

NUMBER OF EXITS: REQUIRED: 2 PROVIDED: 2

SYMBOL	DOOR SCHEDULE	TOTAL
A	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MINUTE/SMOKE RATED, SELF CLOSING WITH LEVER HARDWARE, PRIVACY	2
B	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 45 MINUTE/SMOKE RATED, SELF CLOSING WITH LATCHING LEVER HARDWARE	1
C	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MIN. CLASSROOM CLOSET DOORS	4
D	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MINUTE/SMOKE RATED, SELF CLOSING WITH LATCHING LEVER HARDWARE WITH 4"x24" VIEW BLOCK WITH SAFETY GLASS, FIRE RATED, SMOKE RATED	4
E	72"X80" STEEL/STEEL W/4"X24" VIEW PANEL WITH SAFETY GLASS, PANIC HARDWARE	2
F	36"X80" SOLID CORE IMPERIAL OAK W/REDIFRAME 20 MINUTE/SMOKE RATED, SELF CLOSING WITH PUSH/PULL WITH LATCH	2
SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"X60" VERTICAL SLIDE, INSULATED BRONZE/TINTED WHITE VINYL WINDOW (EMERGENCY ESCAPE)	8

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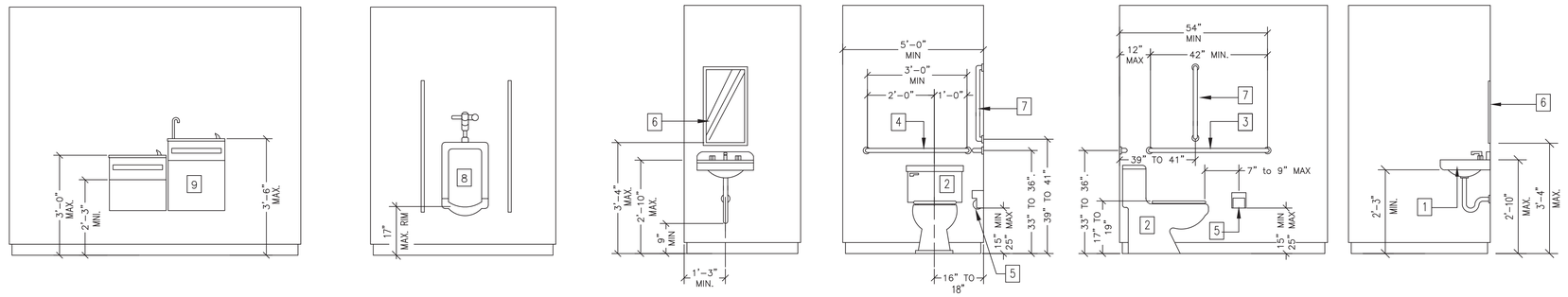
09/24/2024

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

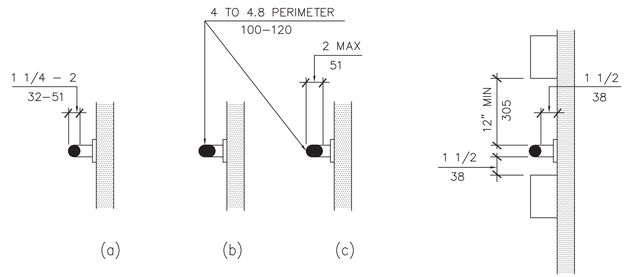
DATE: 8-14-24	REVISIONS:
SCALE: NO SCALE	1 9-8-24 CORRECT BUILDING SIZE FROM 68'-4" x 64'-0" TO 68'-4" x 66'-0"
CODES: SEE NOTES	BY: N.T.
STATES: TN, NC.	
REFERENCE: 11552-53	SHEET LS-1
DBI 70x66 MG (2024) EDUCATION-STOCK	
LIFE SAFETY	TN. PLAN NO: DBI-216



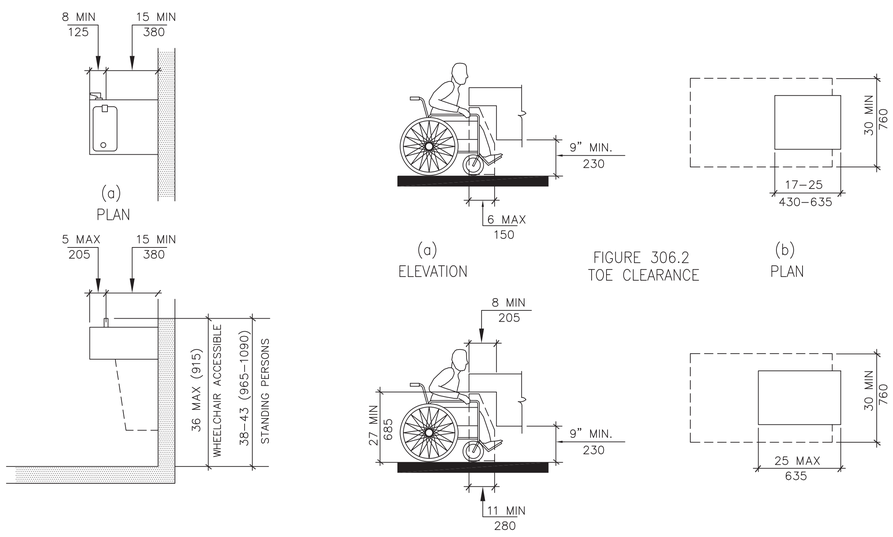
1	LAVATORY
2	H/C WATER CLOSET
3	42" GRAB BAR 12 INCHES MAXIMUM FROM REAR WALL
4	36" GRAB BAR
5	TOILET PAPER HOLDER
6	MIRROR
7	18" VERT GRAB BAR
8	URINAL
9	HI-LO FOUNTAIN

TYP. INTERIOR ELEVATIONS

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

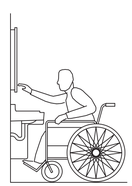


GRAB BAR DETAIL

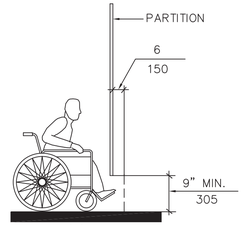


TYP. DRINKING FOUNT. ELEVATIONS

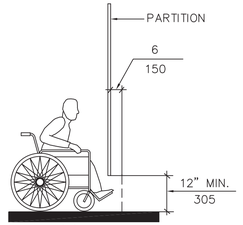
HEIGHTS AND CLEARENCES

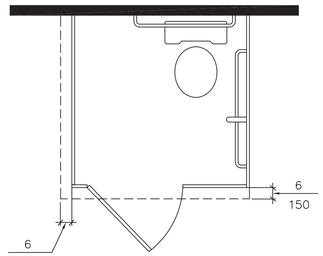


ELEVATION
ADULT



ELEVATION
CHILD





TYP. TOE CLEARENCE

TOILET AND STALL

NOTE:
THESE DETAILS ARE BASED ON 2010 ADA REQUIRMENTS

NOTE:
FOR BUILDINGS THAT UTILIZES OTHER ACCESSIBILITY CODES, REFER TO APPLICABLE CODES SPECIFIED REQUIRMENTS.

EMC
R. JOHNSON
APPROVED
09 24 2024

CONSULTING ENGINEER: NADER TOMASBI, P.E. – 58665 GLENRIVER DRIVE – GOSHEN, IN. 46528 – 574-370-3419

NADER TOMASBI REGISTERED ENGINEER DEPARTMENT OF AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE
09/24/2024

NORTH CAROLINA PROFESSIONAL SEAL 17084 ENGINEER NADER TOMASBI
09/24/2024

DIAMOND BUILDERS INC.
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440 THOMPSON DR. (912) 384-7080

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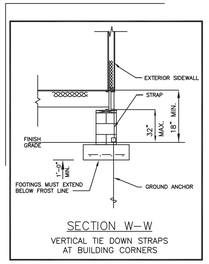
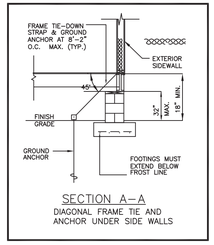
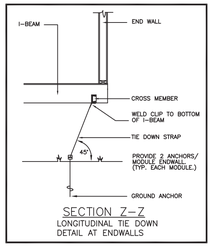
STATES: TN, NC.	BY: N.T.
REFERENCE: 11552-53	
DBI 70x66 MG (2024) EDUCATION-STOCK	SHEET
ACCESSIBLE DETAILS	TN. PLAN NO: DBI-216 AD-1



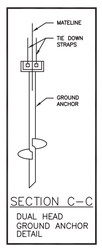
SECTION W–W
VERTICAL TIE DOWN STRAPS AT BUILDING CORNERS



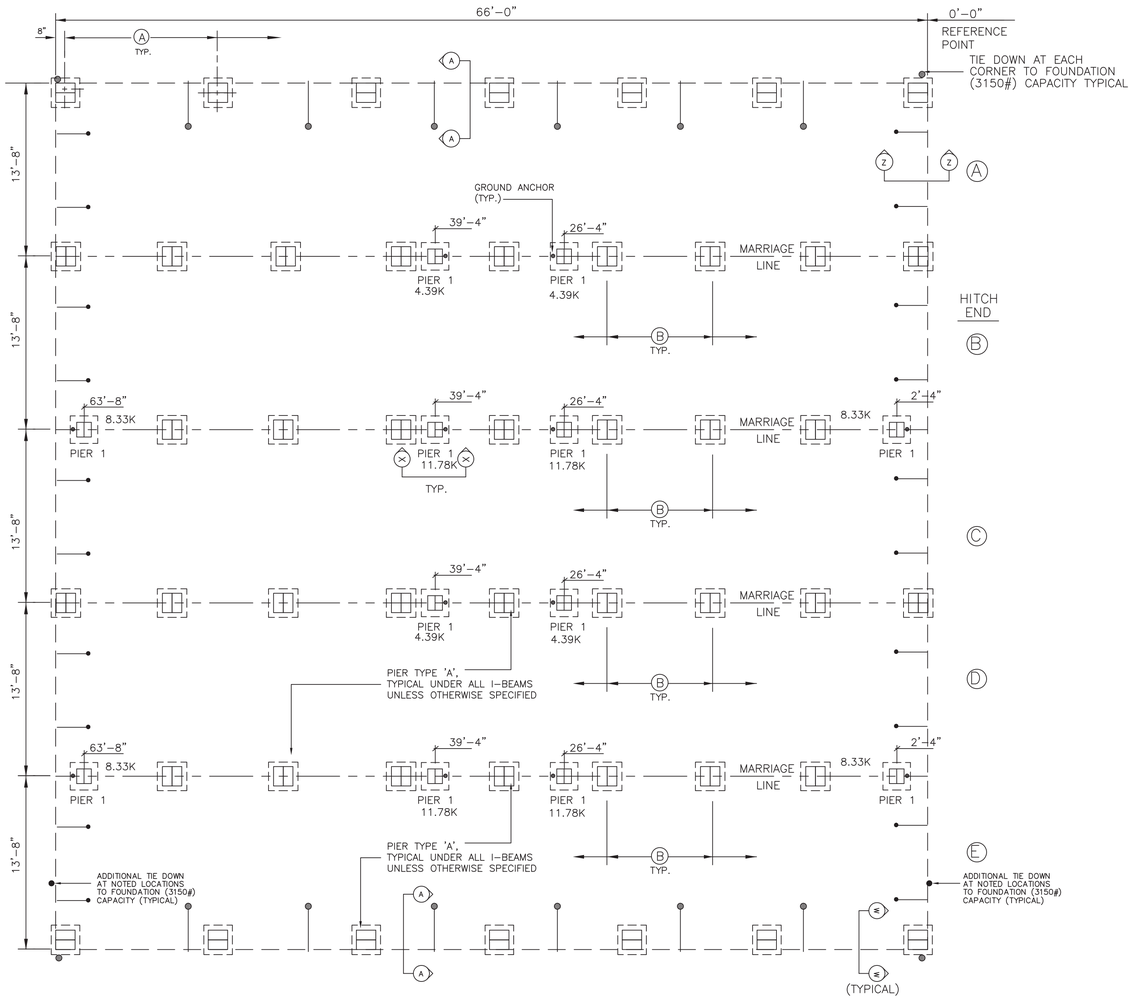
SECTION A–A
DIAGONAL FRAME TIE AND ANCHOR UNDER SIDE WALLS



SECTION Z–Z
LONGITUDINAL TIE DOWN DETAIL AT ENDWALLS

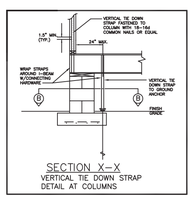


SECTION C–C
DUAL HEAD GROUND ANCHOR DETAIL

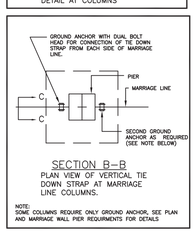


FOUNDATION NOTES:

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. GROUND ANCHORS SHALL HAVE 3150# MINIMUM WORKING CAPACITY, 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 VALUES SPECIFIED ABOVE 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 6 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 AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
13. THE FOUNDATION DIMENSIONS SHOWN ARE NOMINAL. AN INCREASE IN MODULE WIDTH SHOULD BE EXPECTED DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ABOVE.

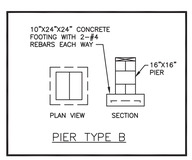


SECTION X–X
VERTICAL TIE DOWN STRAP DETAIL AT COLUMNS

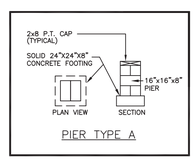


SECTION B–B
PLAN VIEW OF VERTICAL TIE DOWN STRAP AT MARRIAGE LINE COLUMNS.

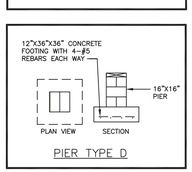
NOTE:
SOME COLUMNS REQUIRE ONLY GROUND ANCHOR, SEE PLAN AND MARRIAGE WALL PIER REQUIREMENTS FOR DETAILS



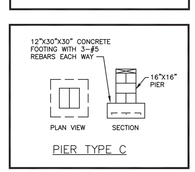
PIER TYPE B



PIER TYPE A



PIER TYPE D



PIER TYPE C

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 CHART BELOW FOR THE CORRECT NUMBER OF PIERS REQUIRED FOR EACH SOIL BEARING CAPACITY.

FOUNDATION DIMENSIONS

MAXIMUM PIER SPACING				MINIMUM SOIL BEARING CAPACITY
(A) SIDEWALLS	KIPP LOAD	(B) MATELINE	KIPP LOAD	
9'–0"	7.43K	5'–0"	7.06K	2000 PSF
9'–0"	7.43K	7'–11"	11.17K	3000 PSF

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.

NOTICE TO FOUNDATION CONTRACTOR:
ALL DIMENSIONS, DETAILS AND NOTES ON THIS FOUNDATION PLAN MUST BE REVIEWED AND VERIFIED BY THE FOUNDATION CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE FOUNDATION. ANY APPARENT CONFLICTS, ERRORS OR OMISSIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR RESOLUTION PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE FOUNDATION PLAN FROM THE LOCAL BUILDING DEPARTMENT PRIOR TO COMMENCING CONSTRUCTION AND MUST COMPLY WITH ALL STATE AND LOCAL CODE, APPROVAL AND AND INSPECTION REQUIREMENTS. EMC IS NOT THE DESIGNER OF THE BUILDING OR THE FOUNDATION AND IS NOT RESPONSIBLE OR LIABLE FOR ANY CONFLICTS, ERRORS, OMMISSIONS OR FAILURES TO COMPLY WITH STATE OR LOCAL CODES.

MARRIAGE WALL COLUMN 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

EMC
R. JOHNSON
APPROVED
09 24 2024

NADER TOMASI — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 109918 — STATE OF TENNESSEE
09/24/2024

NORTH CAROLINA PROFESSIONAL SEAL 17084 ENGINEER NADER TOMASI
09/24/2024

CONSULTING ENGINEER: NADER TOMASI, P.E. – 58665 GLENRIVER DRIVE – GOSHEN, IN. 46528 – 574–370–3419

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

DATE: 8–14–24
SCALE : NO SCALE
CODES: SEE NOTES
STATES: IN, NC
REFERENCE: 11552–53

REVISIONS:
1 9–8–24 CORRECT BUILDING SIZE FROM 66'–4" x 64'–0" TO 66'–4" x 66'–0"

BY: N.T.

DBI 70x66 MG (2024) EDUCATION–STOCK

FOUNDATION

TN. PLAN NO: DBI–216

SHEET 1 OF 1