

**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 ADDITIONAL 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 PROVIDED SHALL CONTAIN STORAGE SPACE WITH THE FOLLOWING DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (I.E. TOUCH CLOTHES, U-SHAPED PLUNGERS) 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 48 INCHES MINIMUM AND 54 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. CONTROL DEVICES, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 18 INCHES ABOVE THE FLOOR. EXCEPT: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SWITCHES, EQUIPMENT CONTROLS OTHERWISE OR MECHANICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 8 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. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELLED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMP. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRABBINGS 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 42 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED 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, PUSH TYPE) AND DEVELOPMENT DRAWINGS. SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL.
17. TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.
18. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVATORIES.

**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.
3. FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD INTO THE WALLS AT LEAST 6 INCHES.
4. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
5. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
6. WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR.
7. A P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
8. DWV SYSTEM SHALL BE CAST IRON - DWV.
9. WATER SUPPLY LINES SHALL BE COPPER, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
10. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH VALVE TYPE UNLESS OTHERWISE SPECIFIED.
11. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
12. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
13. 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.
14. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
15. WATER, SOIL AND WASTE PIPES IN UNCONDITIONED SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING.
16. THE WATER HEATER SHALL HAVE CONTROLS TO ALLOW A SET POINT OF 90 DEGREES F. THE OUTLET TEMPERATURE OF LAVATORIES SHALL BE LIMITED TO 110 DEGREES F.
17. THE DISCHARGE FROM THE WATER HEATER RELIEF VALVE SHALL BE PIPED FULL SIZE SEPARATELY TO THE OUTSIDE OF THE BUILDING OR TO AN INDIRECT WASTE RECEPTOR SO THAT ANY DISCHARGE CAN CAUSE NO PERSONAL INJURY AND CAN BE READILY OBSERVED.
18. TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMP LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110°F(43°C).
19. WATER HEATER SHALL BE PLUMBED WITH HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING CONNECTED TO THE HEATER.
20. THE FIRST 8 FEET OF WATER PIPING FROM THE WATER HEATER SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/Hr x Ft.
21. FLOOR DRAINS IN PUBLIC TOILET ROOMS SHALL BE EQUIPPED WITH AN APPROVED TRAP PRIMER TO MAINTAIN THE WATER SEAL IN THE FLOOR DRAIN TRAP AND SHALL BE FED BY AN AUTOMATIC TRAP PRIMING DEVICE.
22. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER CODE ARE NOT PROVIDED WITHIN THE BUILDING, A HANDICAPPED ACCESSIBLE FACILITY MUST BE PROVIDED ON SITE WITHIN THE ALLOWABLE DESIGN 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.
23. PLUMBING VENTS (VTRS) MUST EXTEND 12" VENT ABOVE THE ROOF.

**ELECTRICAL NOTES:**

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "CLOSET STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410.2.
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A LIMIT 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 WITH 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 LINES SHALL BE WEATHER PROOF (NP) ENCLOSURES, THE LOCATION OF WHICH IS NOT AFFECTED WHEN AN APPROVED APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
8. ALL CIRCUITS CROSSING OVER MODULE MATING LINES 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. AUTOMATIC CONTROL DEVICES SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE AND SHALL EITHER BE MANUAL OR SHALL BE CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50% POWER.
12. SMOKE DETECTORS SHALL BE WIRED SO THAT THE OPERATION OF ANY ONE SMOKE DETECTOR WILL CAUSE SIMULTANEOUS ACTIVATION OF ALL OTHERS.
13. PROVIDE TAMPER RESISTANT RECEPTACLES PER NEC, SECTION 406.12, 406.13.
14. ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMP OUTLETS IN ALL AREAS ARE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12 OF NEC.
15. TYPE 1 OR TYPE 2 SURGE PROTECTION DEVICE TO BE INSTALLED AS INTEGRAL PART OF THE SERVICE EQUIPMENT OR LOCATED IMMEDIATELY ADJACENT THEREO.

**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, HI-LO DRINKING FOUNTAIN, HOOK-UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. GLAZING OPENING PROTECTION-SEE GENERAL NOTE 10
7. GUTTER AND DOWN SPOUTS.
8. LUMINOUS EGRESS PATH LIGHTING
9. CALL BUTTON AND PULL DOWN BAR IN ADA RESTROOM
10. 12" ROOF EXTENSION
11. TYPE 1 OR TYPE 2 SURGE PROTECTION DEVICE
12. BACK FLOW PREVENTER
13. SPRINKLER SYSTEM
14. DOMESTIC RANGE

**GENERAL NOTES:**

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTIONS AND TIE DOWN REQUIREMENTS.
5. STRAPPING MUST BE TESTED AND/OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY. APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
6. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
7. THIS BUILDING IS DESIGNED FOR TEXAS CLIMATE ZONE 2a.
8. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
9. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
10. IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC, NBC, & IBC, NBC.
11. THIS BUILDING IS DESIGNED FOR NORTH CAROLINA CLIMATE ZONE 4a

**MECHANICAL NOTES:**

1. ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES X 24 INCHES ADJUSTABLE WITH 8 INCHES (18 INCHES (457MM)) 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 UNRATED DOORS).
3. HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 5 CFM PER PERSON & 0.06 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF THE IBC, AND NMC.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. THERMOSTAT MUST BE PROGRAMMABLE.
6. HEATING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN TEMPERATURES ABOVE AN ADJUSTABLE HEATING SETPOINT AT LEAST 10° F BELOW THE OCCUPIED HEATING SETPOINT AT LEAST 5° F ABOVE THE OCCUPIED COOLING SET POINT OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.
7. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 50 CFM PER BATHROOM AND SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL INTAKE.
8. ALL PERMISSIBLE TYPE GAS FOR APPLIANCES-NONE (ALL ELECTRIC)

**COMPLIANCE WITH LOCAL REQUIREMENTS GA.**

RULE 110-2-4-03: ALL INDUSTRIAL BUILDINGS BEARING AN INSIGNIA OF APPROVAL ISSUED BY THE COMMISSIONER PURSUANT TO THESE RULES SHALL BE HELD TO COMPLY WITH THE REQUIREMENTS OF ALL ORDINANCES OR REGULATIONS ENACTED BY ANY LOCAL GOVERNMENT WHICH ARE APPLICABLE TO THE MANUFACTURER AND INSTALLATION OF BUILDINGS. THE DETERMINATION BY THE COMMISSIONER OF THE SCOPE OF SUCH APPROVAL IS FINAL.

**WINDOW & DOOR SPECIFICATIONS**

1. DEL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE COMMERCE 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.

**LIMITATIONS OF APPROVAL N.J.**

1. THE APPROVAL OF THE PLAN UNDER THE INDUSTRIALIZED BUILDING COMMISSION PROGRAM IS PART OF THE MANUFACTURER'S 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 REQUIREMENTS.

**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 E1.1, E2.1, E2.2 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES E1.1, E1.2, E2.3, E4.1 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
6. FIRE BLOODING SHALL BE PROVIDED PER SECTION 717.2 AND 1406.2.3 OF THE IBC, 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.

**MARYLAND NOTES:**

1. REFER TO STATE PACKAGE PAGE NO. C34.0 FOR REQUIRED DUCT PROTECTION AT CONNECTION TO HVAC LINE.
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: ALLEGANY, HOWARD
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 THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR. 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 RELATED TO SITE WORK, INCLUDING SITE AND DEVELOPMENT DRAWINGS, SHALL BE SUBMITTED TO THE LOCAL GOVERNMENT 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 2018 IECC IS THE APPLICABLE ENERGY CODE, SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION. 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 INSULATION IN CLIMATE ZONE 5, WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THRU 4 AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONE 5.
8. THE INITIAL INSTALLATION OF THIS BUILDING IS NOT IN THE STATE OF MARYLAND, THEREFORE A SITE PLAN CANNOT BE PROVIDED. IF THIS BUILDING IS TO BE INSTALLED IN THE FUTURE IN MARYLAND, A SITE PLAN SHALL BE ATTACHED TO THE PERMIT APPLICATION OF THE BUILDING.

**STATEMENT OF SPECIAL INSPECTIONS (IBC SECTION 1704.3)**

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

1. SOILS-PERIODIC
2. CONCRETE FOOTINGS-EXEMPT PER 1705.3 EXCEPTION #1
3. MASORY PIERS-PERIODIC
4. BUILDING ANCHORAGE SYSTEM-PERIODIC
5. ON SITE STRUCTURAL INTERCONNECTIONS BETWEEN BUILDING MODULES-PERIODIC
6. SPECIAL INSPECTIONS OF THE FACTORY BUILT MODULAR UNITS IS NOT REQUIRED DURING PRODUCTION IN THE FACTORY PER IBC SECTION 1704.2.5.1. THE MODULAR BUILDING MANUFACTURER IS AN APPROVED FABRICATOR OF PREMANUFACTURED BUILDINGS UNDER THE MARYLAND INDUSTRIALIZED BUILDING PROGRAM AND IS THEREFORE APPROVED TO MANUFACTURE WITHOUT SPECIAL INSPECTIONS

**STRUCTURAL LOAD SPECIFICATIONS-ASCE 7-16**

FLOOR DEAD AND LIVE LOAD:  
 A. DEAD LOAD = 12 PSF (AVERAGE)  
 B. UNIFORM LIVE LOAD = 40 PSF, 100 PSF CORRIDORS AND TRENCHES  
 C. CONCENTRATED LIVE LOAD = 2000 LB. OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR. NOTE: UNIFORM AND CONCENTRATED LIVE LOADS ARE NOT SIMULTANEOUSLY APPLIED.  
 ROOF SNOW LOAD:  
 A. DEAD LOAD = 13 PSF (AVERAGE) / LIVE LOAD = 30 PSF.  
 WIND LOAD:  
 A. BASIC WIND SPEED (3-SEC GUST): V = 150 MPH  
 B. ASO WIND SPEED (3-SEC GUST): V<sub>50</sub> = 118 MPH  
 C. WIND EXPOSURE CATEGORY: C  
 D. INTERNAL PRESSURE COEFFICIENT: C<sub>pi</sub> = 0.18  
 E. COMPONENT & CLADDING BASIC DESIGN PRESSURES (ASO DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:  
 WALL ZONE 5: P = +/- 65.6 PSF (Wind = +/-39.3 PSF)  
 WALL ZONE 4: P = +/- 53.1 PSF (Wind = +/-31.9 PSF)  
 ROOF ZONE 3: P = - 140.2 PSF (Wind = +/-84.1 PSF)  
 ROOF ZONE 2: P = - 103.0 PSF (Wind = +/-61.8 PSF)  
 ROOF ZONE 1: P = - 78.0 PSF (Wind = +/-48.3 PSF)  
 ROOF ZONE 1: P = - 44.8 PSF (Wind = +/-28.9 PSF)

**STRUCTURAL LOAD SPECIFICATIONS-ASCE 7-10**

FLOOR DEAD AND LIVE LOAD:  
 A. DEAD LOAD = 12 PSF (AVERAGE)  
 B. UNIFORM LIVE LOAD = 40 PSF, 100 PSF CORRIDORS AND TRENCHES  
 C. CONCENTRATED LIVE LOAD = 2000 LB. OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR. NOTE: UNIFORM AND CONCENTRATED LIVE LOADS ARE NOT SIMULTANEOUSLY APPLIED.  
 ROOF DEAD AND LIVE LOAD:  
 A. DEAD LOAD = 13 PSF (AVERAGE) / LIVE LOAD = 30 PSF.  
 WIND LOAD:  
 A. BASIC WIND SPEED (3-SEC GUST): V = 140 MPH  
 B. NOMINAL WIND SPEED (3-SEC GUST): V<sub>50</sub> = 108 MPH  
 C. WIND EXPOSURE CATEGORY: C  
 D. INTERNAL PRESSURE COEFFICIENT: C<sub>pi</sub> = 0.18  
 E. COMPONENT & CLADDING BASIC DESIGN PRESSURES (NOMINAL DESIGN PRESSURE) FOR ROOF ANGLES 0 TO 7 DEGREES:  
 WALL ZONE 5: P = +/- 65.6 PSF (Wind = +/-39.3 PSF)  
 WALL ZONE 4: P = +/- 53.1 PSF (Wind = +/-31.9 PSF)  
 ROOF ZONE 3: P = - 137.7 PSF (Wind = +/-81.2 PSF)  
 ROOF ZONE 2: P = - 102.7 PSF (Wind = +/-61.8 PSF)  
 ROOF ZONE 1: P = - 42.7 PSF (Wind = +/-28.9 PSF)

MARYLAND SERIAL NO: 10717A, 10717B, 10717C, 10717D, 10717E, 10717F, 10717G, 10717H, 10718A, 10718B, 10718C, 10718D, 10718E, 10718F, 10718G, 10718H, 10719A, 10719B, 10719C, 10719D, 10719E, 10719F, 10719G, 10719H, 10720A, 10720B, 10720C, 10720D, 10720E, 10720F, 10720G, 10720H,

**NEW JERSEY**  
 CONSULTING ARCHITECT  
 ROBERT E. CROOK P. E. LIC.#15414  
 18167 US 19 NORTH-SUITE 120  
 CLEARWATER, FL 33764 (727) 644-8193

**BUILDING DESIGN PARAMETERS**


1. USE/OCCUPANCY:	R-2 (DORMITORY)
2. CONSTRUCTION TYPE:	VB
3. SPRINKLER SYSTEM:	YES
4. BUILDING AREA:	4480 S.F.
5. BUILDING HEIGHT:	515 FEET
6. NUMBER OF STORES:	1
7. NUMBER OF MODULES:	8
8. OCCUPANT LOAD IS BASED ON 30 SF/PERSON	NO.
9. EXTERIOR WALL FIRE RATING:	NOT RATED
10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC, NBC, TABLE 602 AND SECTION 705.3.	
11. ENERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.	
12. MANUFACTURERS DATA PLATE, STATE LABELS AND ENG. LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.	

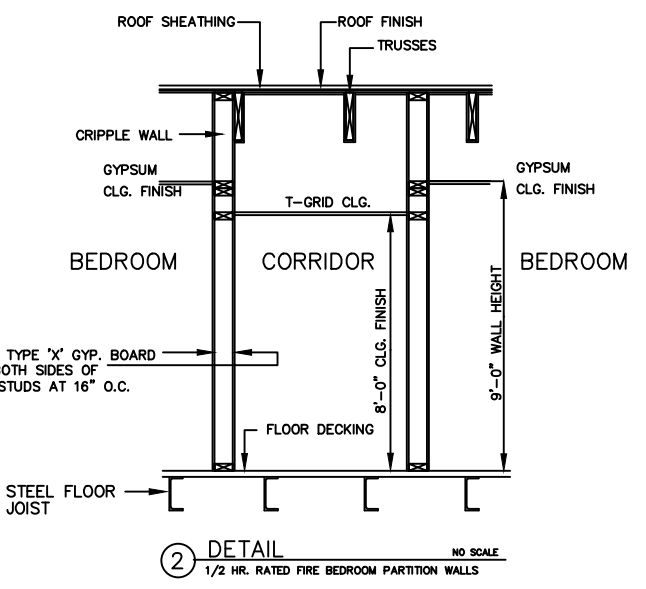
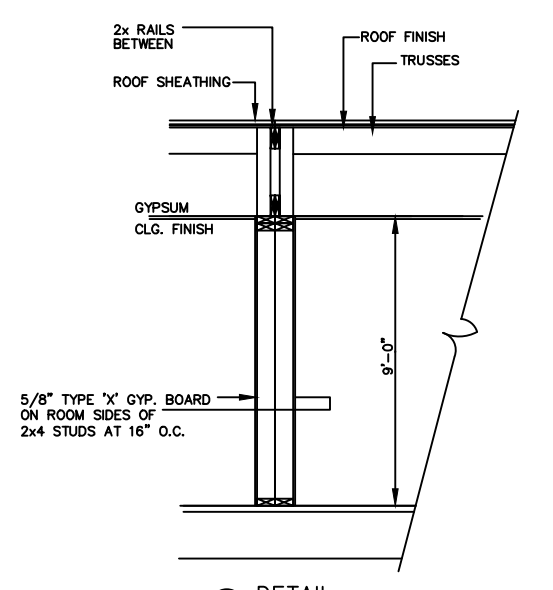
APPROVED-STATE OF GEORGIA INDUSTRIALIZED BUILDINGS PROGRAM DESIGN APPROVAL AGENCY: EMC
CONST. TYPE VB
OCCUPANCY R-2
FLOOR LL (PSF) 50/100
WIND VELOCITY (MPH) 150/116
SEISMIC DESIGN CATEGORY C
EXTERIOR WALL FIRE RATING (HRS) 0
PLAN NUMBER DBI 10717
APPROVAL DATE
EMC

**CODE SUMMARY:**

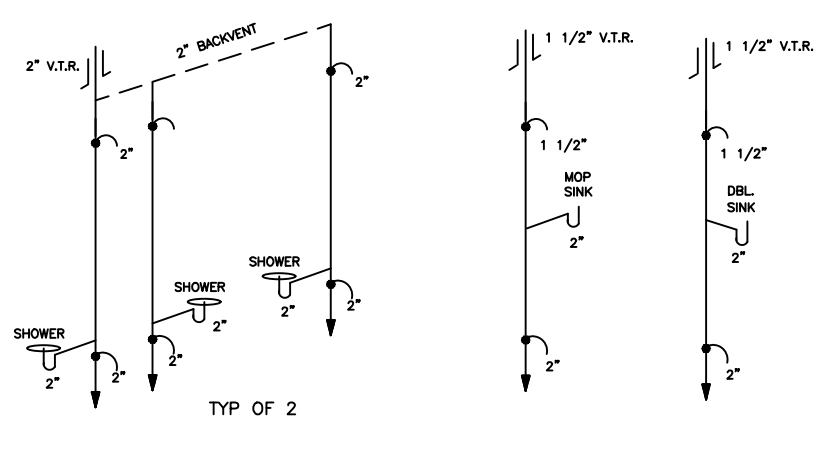
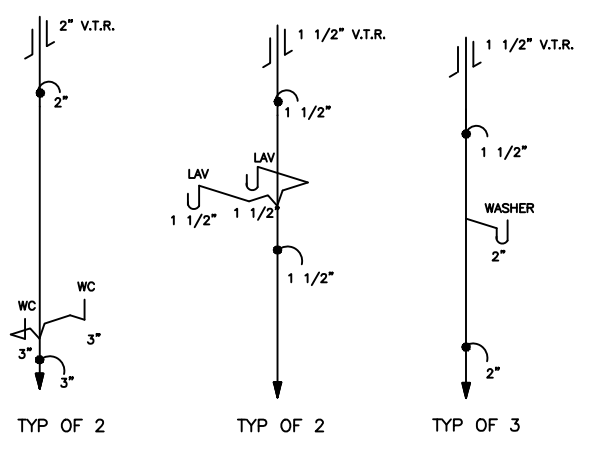
STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILITY	ENERGY CODE
PA.	PAUCC WITH (2018 IBC W/AMEND) 2018 IFC	2017 NEC	210B IMC	2018 IPC	ANSI A117.1-2009 2021 IBC ch 11 & APPENDIX E	2018 IECC W/AMENDS
NEW JERSEY	2021 IBC W/ N.J. AMENDS FUEL AD-1 2021 INTL. FUEL GAS CODE	2020 NEC W/N.J. AMENDS	2021 IMC N.J. AMENDS	2021 NATL. STD. PC (NSPC)	ANSI A117.1-2017 CHPT. 11 OF 2021 IBC & NJAC 5:23-7	2019 ASHRAE 90.1 W/N.J. AMENDS
GEORGIA	2018 IBC W/2020, 22 GA. AMEND. CHAPTER 120-3-3 2018 LIFE SAFETY CODE. FIRE	2020 NEC W/2021 GA. AMEND.	2018 IMC W/2020, 22 GA. AMEND.	2018 IPC W/2020,22,23 GA. AMEND.	GA. ACCESS. CODE, CHAPTER 120-3-20 2010 ADA	2015 IECC W/2020, 22,23 GA. AMENDS.
VIRGINIA	2018 IBC W/AMENDS. STATEWIDE BLDG. CO. (VUSBC)	2018 VA ELECT'L CODE (W/V.A. AMENDS)	2018 VA MECH'L CODE (2018 IMC W/V.A. AMENDS)	2018 VA PLUMBING CODE (2018 IPC W/V.A. AMENDS)	ICC/ANSI A117.1-2009	2018 VA. ENERGY CODE W/V.A. AMENDS.
N. CAROLINA	NCBC 2018 2018 NCFPC	2020 N.C. ELECT. CODE	2018 NCMC	2018 NCPIC	NCBC 2018 CHPT. 11 AND ICC/ANSI A117.1-2009	2018 NC ENERGY CODE
MARYLAND	2018 IBC W/ MD. AMENDMENTS FIRE CODE	2017 NEC W/MD. AMEND.	2018 IMC W/ MD. AMEND.	2018 IBC W/ MD. AMEND.	2010 ADA 2012 MARYLAND ACCESS. CODE	2018 IECC W/MD. AMEND.

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

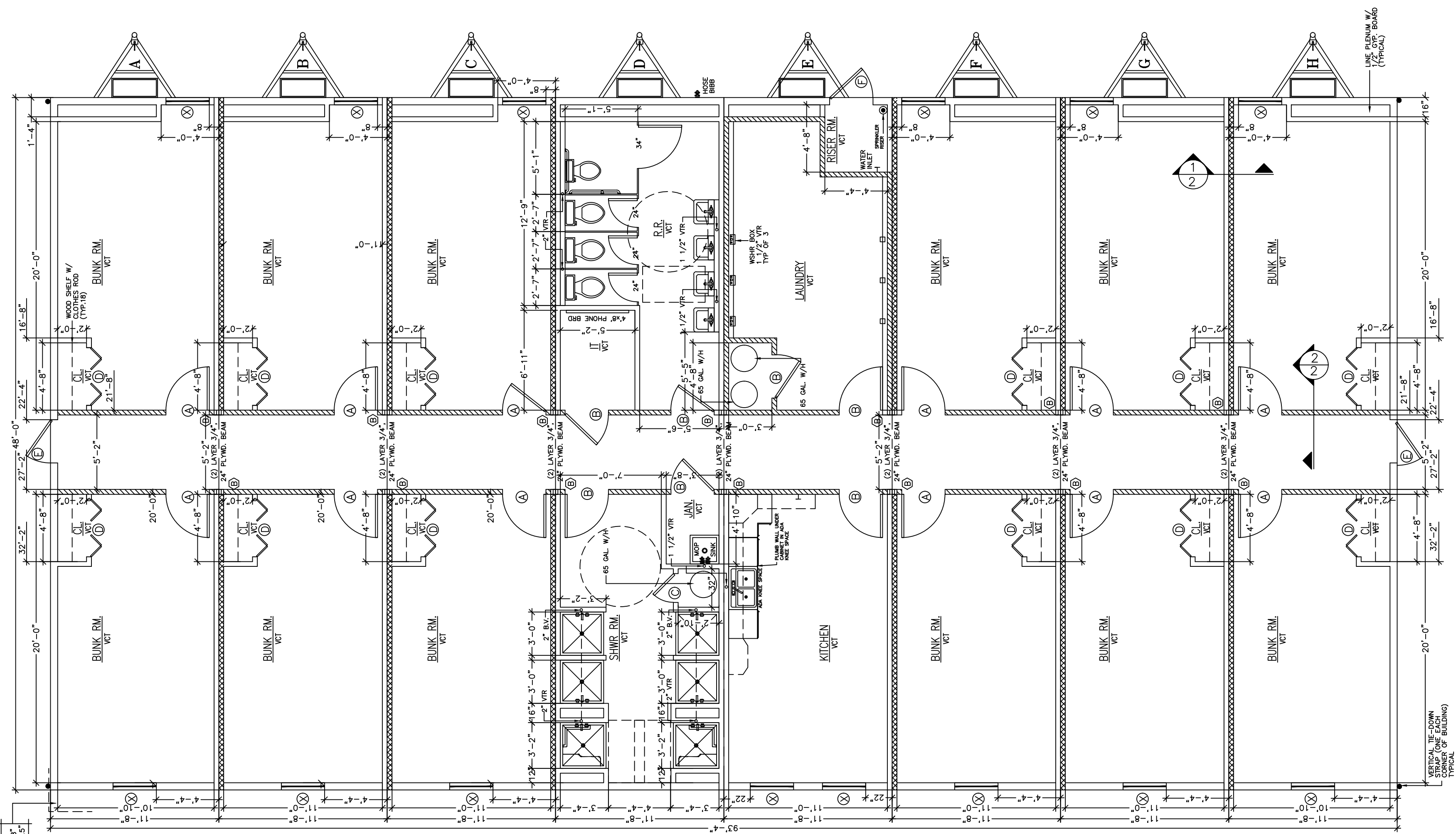
 <p><b>DIAMOND BUILDERS INC.</b>                  P.O. BOX 2200                  DOUGLASS, GEORGIA 31534</p>	<p>DATE: 4-24-23</p> <p>SCALE: NO SCALE</p> <p>CODES: SEE NOTES</p>		<p><b>VSU SITE 2 AND 3 FEMALE BUILDING</b></p>	
	<p>STATES: VA, PA, NJ, MD, GA, NC.</p>	<p>REFERENCE: 10717</p>	<p>BY: N.T.</p>	<p>BY: R.E.G.</p>
	<p>DBI10717-20 A-H</p> <p>93'-4" x 48'-0" DORMITORY R-2</p> <p>COVER SHEET</p>		<p>DESTINATION: VIRGINIA STATE, VA</p>	
	<p>1 OF 6 SHEET</p>			



NOTE:  
 ● ELECTRICAL BOXES IN RATED WALLS MUST EITHER BE METAL OR LISTED FOR INSTALLATION IN FIRE RATED ASSEMBLIES  
 ● GYPSUM BOARD SHALL BE FITTED TIGHTLY AROUND RAFTERS WITH JOINTS SEALED WITH METACALUK 1000 FIRE CAULK  
 ● ELECTRICAL BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS MUST BE STAGGERED 24\"/>



DW RISER NTS



**DW RISER NOTES:**

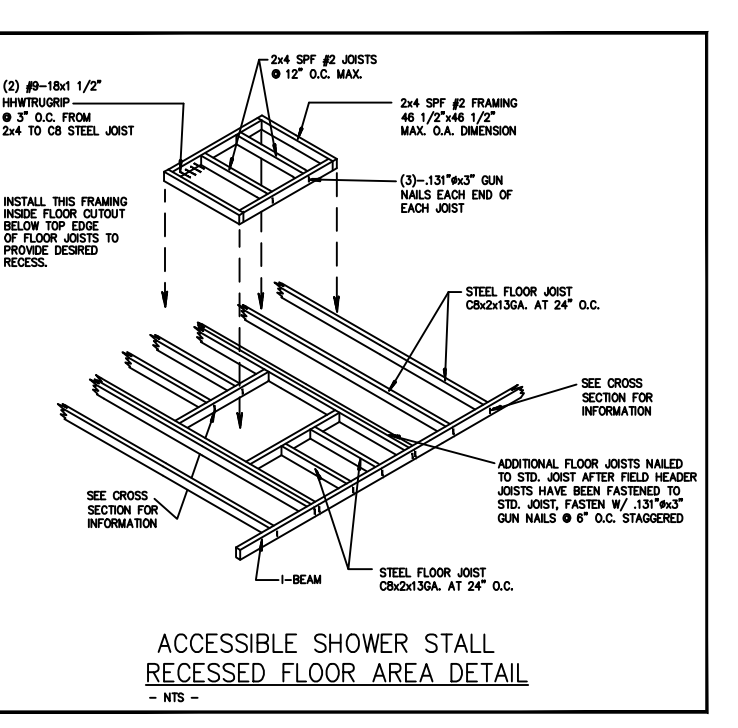
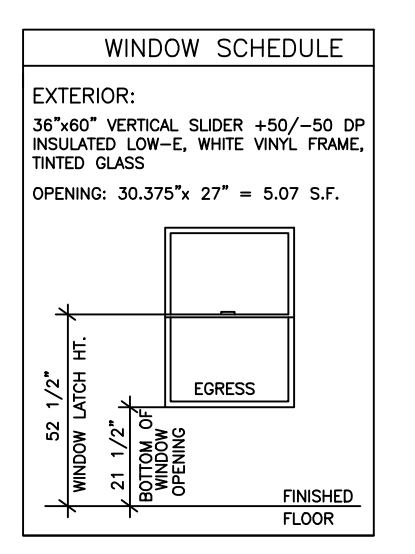
1. THE DW RISER INDICATES ONE METHOD OF INSTALLING THE BELOW THE FLOOR PIPING. OTHER APPROVED METHODS MAY BE USED AS NEEDED TO ACCOMMODATE THE ACTUAL SITE CONDITIONS.
2. ALL BELOW FLOOR PIPING AND FITTINGS ARE TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.
3. 1 1/2 INCH AND 2 INCH HORIZONTAL DRAIN LINES 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.

**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.



SYMBOL	DOOR SCHEDULE	TOTAL
A	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK W/SPRING LOADED HINGE AND SMOKE GASKET	20
B	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK	7
C	24"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK	1
D	48"x80" DOUBLE BI-FOLD DOOR	20
E	36"x80" STEEL/STEEL W/5"x20" VIEW PANEL	2
F	36"x80" STEEL/STEEL BLANK EXTERIOR DOOR	1

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"x60" VERTICAL SLIDE, WHITE VINYL	22

**LEGEND**

CALCULATED FIRE RESISTANCE PER IBC CH. 722.6

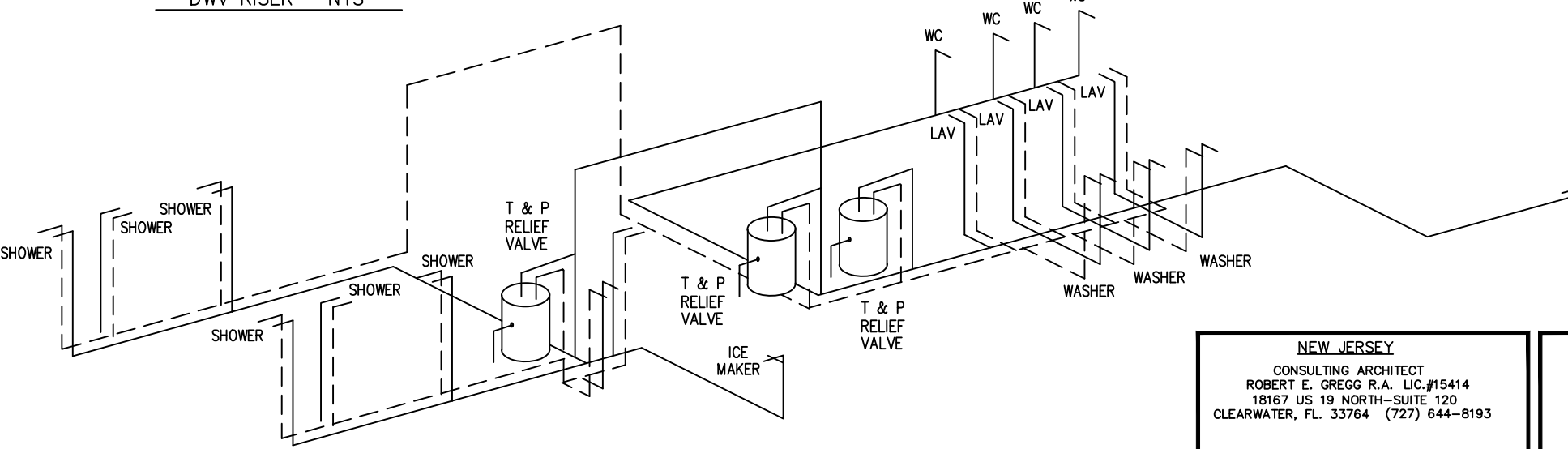
RATED WALL TYPE 1 - GYP. BOARD ON ROOM SIDE OF WALL ONLY. (BEDROOM TO BEDROOM) ALONG MATELINE DOUBLE WALLS (GYP ON ROOMSIDE OF WALL)

RATED WALL TYPE 2 - GYP. BOARD ON BOTH SIDES OF WALL. (SINGLE WALL GYP. ON BOTH SIDES OF WALL) SEPARATING ROOMS OR CORRIDOR

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

--- COLD  
 --- HOT

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

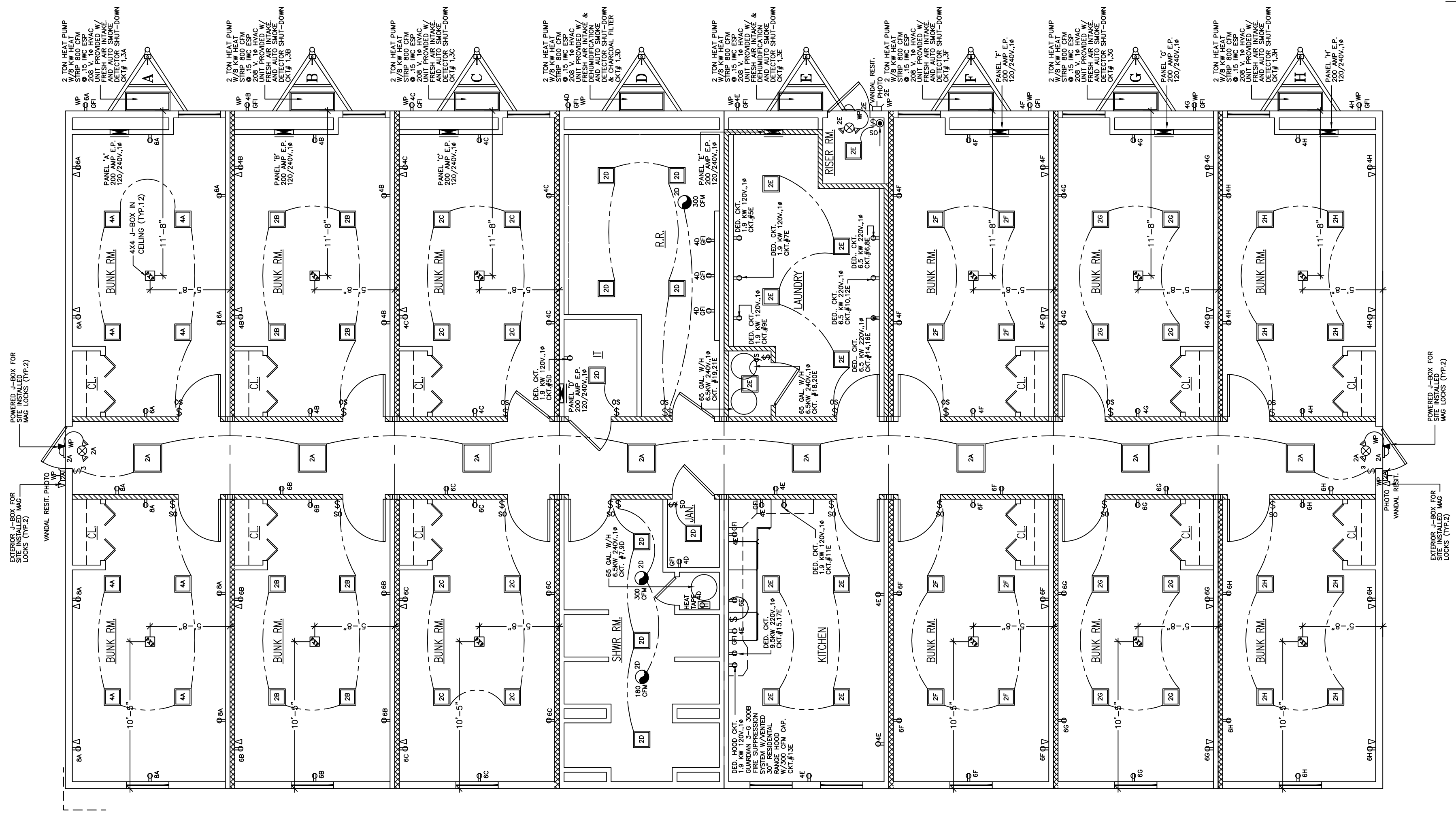


SUPPLY RISER -NTS-

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

<p><b>DIAMOND BUILDERS INC.</b>          P.O. BOX 2200          DOUGLASS, GEORGIA 31534          440 THOMPSON DR.          (912) 384-7080</p>	<p><b>VSU SITE 2 AND 3 FEMALE BUILDING</b></p>	
	<p>DATE: 4-24-23          SCALE: 3/16"=1'-0"          CODES: SEE NOTES</p>	<p>REFERENCE: 10717          MD. PLAN NO. DBI-10717 MD</p>
<p>STATES: VA, PA, NJ, MD, GA, NC.</p>	<p>DBI10717-20 A-H          93'-4" x 48'-0" DORMITORY R-2</p>	<p>SHEET          2 OF 6</p>
<p>FLOOR PLAN</p>		<p>DESTINATION:          VIRGINIA STATE, VA</p>



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

SYMBOLS	
	J-BOXES ONLY
	FIRE ALARM PULL STATION 4" FT
	FIRE ALARM HORN/STROBE 80" FT
	FIRE ALARM STROBE LIGHT 80" FT
	JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
	C.L.G. MT. J-BOX
	CEILING MOUNT OCCUPANCY SENSOR
	SMOKE DETECTOR
	DUPLEX RECEPTACLE 120 V.
	SINGLE RECEPTACLE 240 V.
	QUAD RECEPTACLE 120 V.
	C.L.G. MT. J-BOX
	VENT FAN
	COMB. VENT FAN & LED LIGHT
	THERMOSTAT
	LED LIGHT FIXTURE WITH 25W PANEL
	LED LIGHT FIXTURE WITH 40W PANEL
	LED 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
	TELEPHONE JACK
	SWITCH & 3 WAY SWITCH
	OCCUPANCY SENSOR
	FIRE EXTINGUISHER
	LED PORCH LIGHT WITH 1-11 W. BULB

ELECTRICAL SCHEDULE 'H'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'H'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 500 SF X 1.25=	1.9		
14 RECEPTS AT 180VA/1000=	2.6		
DED. CKT 1.9 KW X 1.25 =			
1 FANS AT 3 KW X 1.25=			
HVAC 2 TON	14.5		
TOTAL	19 KW		
TOTAL/208 X 1000=	80 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

ELECTRICAL SCHEDULE 'G'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'G'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 500 SF X 1.25=	1.9		
14 RECEPTS AT 180VA/1000=	2.6		
DED. CKT 1.9 KW X 1.25 =			
1 FANS AT 3 KW X 1.25=			
HVAC 2 TON	14.5		
TOTAL	19 KW		
TOTAL/208 X 1000=	80 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

ELECTRICAL SCHEDULE 'F'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'F'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 500 SF X 1.25=	1.9		
14 RECEPTS AT 180VA/1000=	2.6		
DED. CKT 1.9 KW X 1.25 =			
1 FANS AT 3 KW X 1.25=			
HVAC 2 TON	14.5		
TOTAL	19 KW		
TOTAL/208 X 1000=	80 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

ELECTRICAL SCHEDULE 'E'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
15, 17	DED. CKT.	50 A (2P)	8-2 NM
4-6, 10-12, 14-16	DED. CKT.	30 A (2P)	10-2 NM
18-20, 19-21	WATER HEATER	30 A (2P)	10-2 NM
5, 7, 9, 11	DED. CKT.	20 A (1P)	12-2 NM
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'E'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 500 SF X 1.25=	1.9		
6 RECEPTS AT 180VA/1000=	1.1		
DED. CKT 1.9 KW X 1.25 =	5.6		
(3) DED. CKT. 6.5 KW =	19.5		
HVAC 2 TON	17.5		
(2) WATER HEATER 6.5 KW =	13.0		
DED. CKT 8.5 KW =	9.5		
TOTAL	30.6 KW		
TOTAL/208 X 1000=	128 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

ELECTRICAL SCHEDULE 'D'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
7, 9	WATER HEATER	30 A (2P)	10-2 NM
5	DED. CKT.	20 A (1P)	12-2 NM
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'D'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 500 SF X 1.25=	1.9		
6 RECEPTS AT 180VA/1000=	1.1		
DED. CKT 1.9 KW X 1.25 =	2.4		
1 FANS AT 3 KW X 1.25=	1.2		
HVAC 2 TON	17.5		
WATER HEATER 6.5 KW =	6.5		
TOTAL	30.6 KW		
TOTAL/208 X 1000=	128 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

ELECTRICAL SCHEDULE 'C'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'C'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 500 SF X 1.25=	1.9		
14 RECEPTS AT 180VA/1000=	2.6		
DED. CKT 1.9 KW X 1.25 =			
1 FANS AT 3 KW X 1.25=			
HVAC 2 TON	14.5		
TOTAL	19 KW		
TOTAL/208 X 1000=	80 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

ELECTRICAL SCHEDULE 'B'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'B'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 500 SF X 1.25=	1.9		
14 RECEPTS AT 180VA/1000=	2.6		
DED. CKT 1.9 KW X 1.25 =			
1 FANS AT 3 KW X 1.25=			
HVAC 2 TON	14.5		
TOTAL	19 KW		
TOTAL/208 X 1000=	80 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

ELECTRICAL SCHEDULE 'A'			
CIRCUIT	NOMENCLATURE	BREAKER (Amps)	WIRE (Gauge)
1, 3	HEAT PUMP	70 A (2P) HACR	6-2 #8 GRND.
6, 9	RECEPTACLES	20 A	12-2 NM
2, 4	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:			
DESCRIPTION	PANEL 'A'	KVA	
GENERAL LIGHTING			
.0030 KW/SF X 980 SF X 1.25=	3.7		
14 RECEPTS AT 180VA/1000=	2.6		
DED. CKT 1.9 KW X 1.25 =			
1 FANS AT 3 KW X 1.25=			
HVAC 2 TON	14.5		
TOTAL	20.8 KW		
TOTAL/208 X 1000=	87 AMPS		
INSTALL 200 AMP PANEL			
120/208 V 1Ø			

**LEGEND**

RATED WALL FIRE RESISTANCE PER IBC CH. 722.6

CALCULATED WALL TYPE 1 - GYP. BOARD ON ROOF SIDE OF WALL ONLY. (BEDROOM TO BEDROOM) ALONG MATELINE DOUBLE WALLS (GYP ON ROOF SIDE OF WALL)

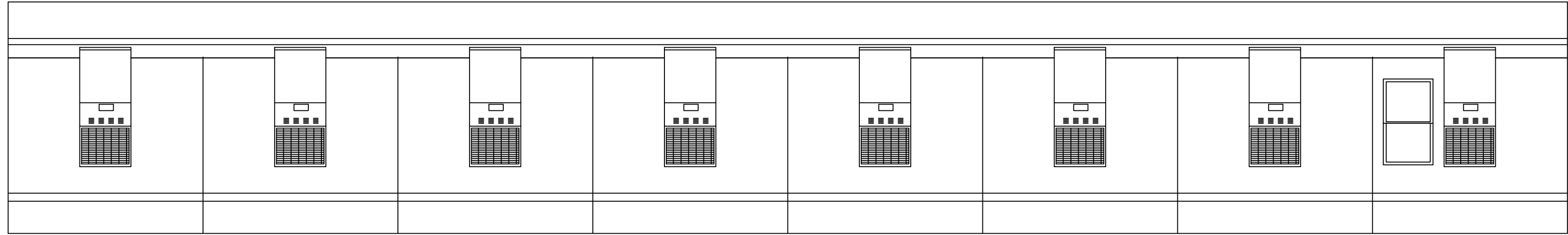
RATED WALL TYPE 2 - GYP. BOARD ON BOTH SIDES OF WALL. (SINGLE WALL GYP. ON BOTH SIDES OF WALL) SEPARATING ROOMS OR CORRIDOR

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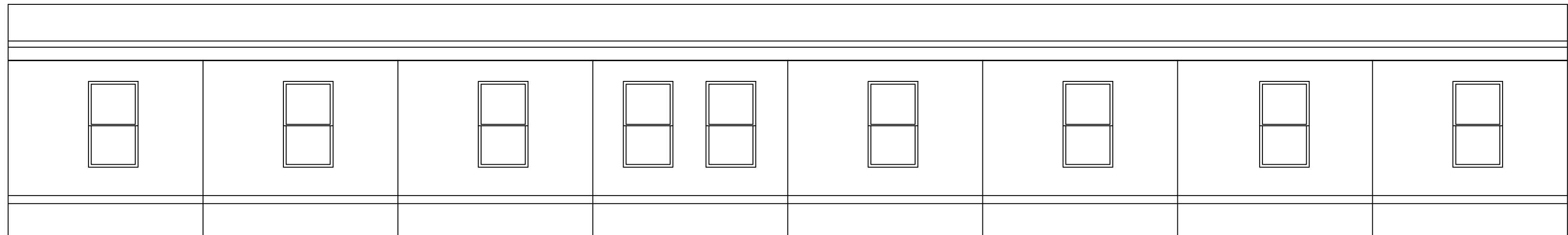
<b>DIAMOND BUILDERS INC.</b> P.O. BOX 2200 440 THOMPSON DR. DOUGLASS, GEORGIA 31534 (912) 384-7080	
DATE: 4-24-23	<b>VSU SITE 2 AND 3 FEMALE BUILDING</b>
SCALE: NO SCALE	
CODES: SEE NOTES	BY: R.E.G.
STATES: VA, PA, NJ, MD, GA, NC.	REFERENCE: 10717
DBI10717-20 A-H	DESTINATION: VIRGINIA STATE, VA
93'-4" x 48'-0" DORMITORY R-2	SHEET 3 OF 6
ELECTRICAL	



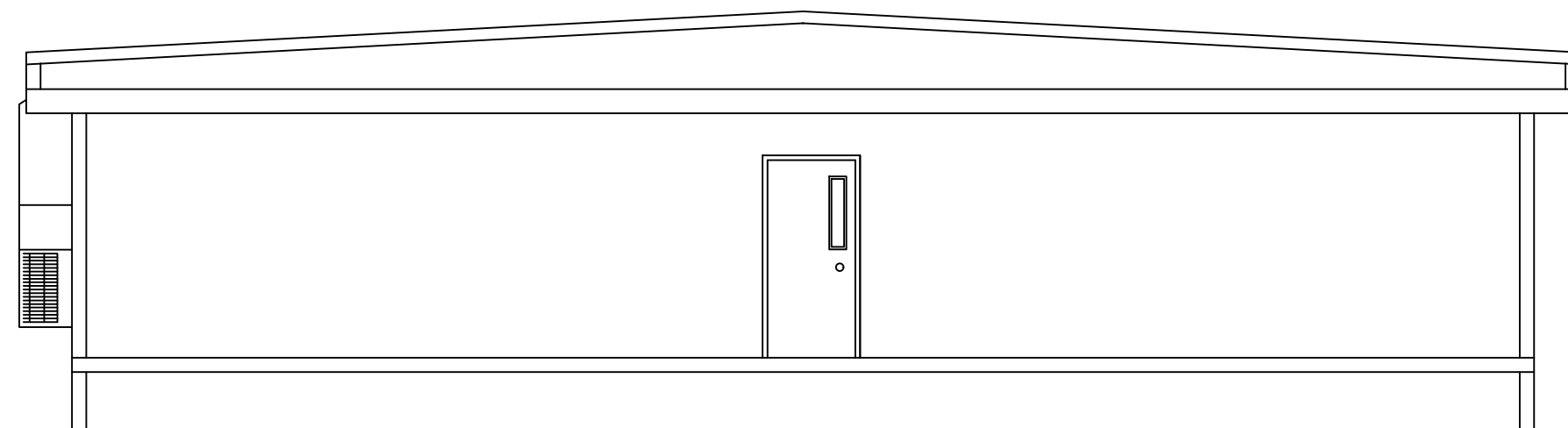


RIGHT ELEVATION

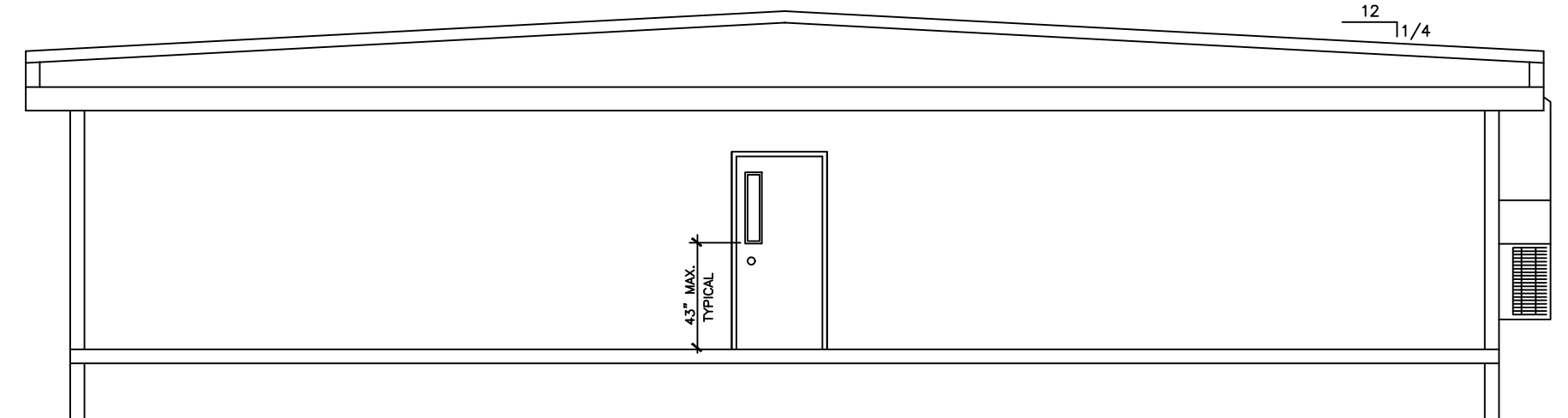
OVERHANG:  
ENDWALLS: 18"  
SIDEWALLS: 1.5"



LEFT ELEVATION



FRONT ELEVATION



REAR 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 INTENDED 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

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

 <b>DIAMOND BUILDERS INC.</b> P.O. BOX 2200 440 THOMPSON DR. DOUGLASS, GEORGIA 31534 (912) 384-7080		DATE: 4-24-23	
		SCALE: NO SCALE	
STATES: VA, PA, NJ, MD, GA, NC.		REFERENCE: 10717	BY: N.T.
DBI10717-20 A-H		R.E.G.	
93'-4" x 48'-0" DORMITORY R-2		SHEET	
ELEVATIONS		DESTINATION: VIRGINIA STATE, VA	
		5 OF 6	

**EXTERIOR FINISH MATERIAL:**

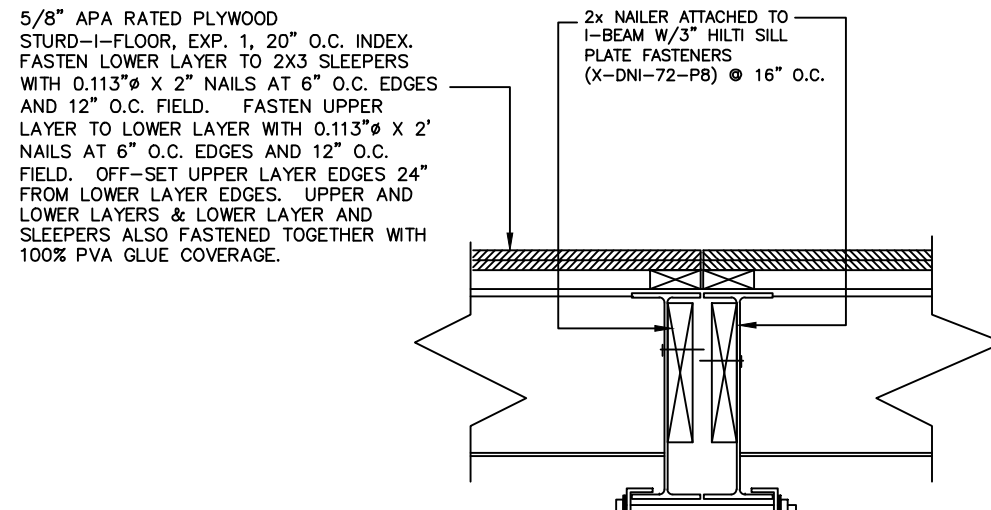
ROOF - MULE-HIDE 45 MIL (BLACK) EPDM (ESR-1463) FULLY ADHERED TO 7/16" OSB OR 1/2" PLYWOOD WITH MULE-HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCR-1078 (CLASS C ROOF)

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

**INTERIOR FINISH MATERIAL:**

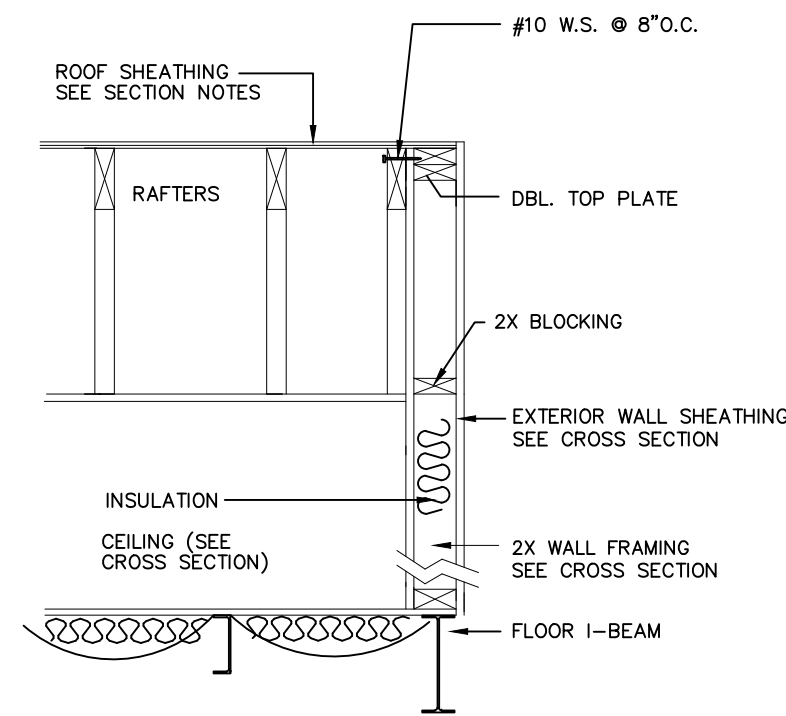
- BUNKROOM - 1/2" GYPSUM CEILING BOARD INSTALLED PER MANUFACTURERS SPECIFICATIONS (SEASPRAY FINISH)
- CORRIDOR - T-GRID CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS BELOW 1/2" GYPSUM BOARD CEILING
- WALL - 5/8" TYPE 'X' GYP. BOARD (VCG THROUGHOUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS
- RESTROOM - FRP OVER 1/2" GYP. BOARD (FULL HEIGHT) INSTALLED PER MANUFACTURERS SPECIFICATIONS
- SHOWER RM JAN CL
- 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.

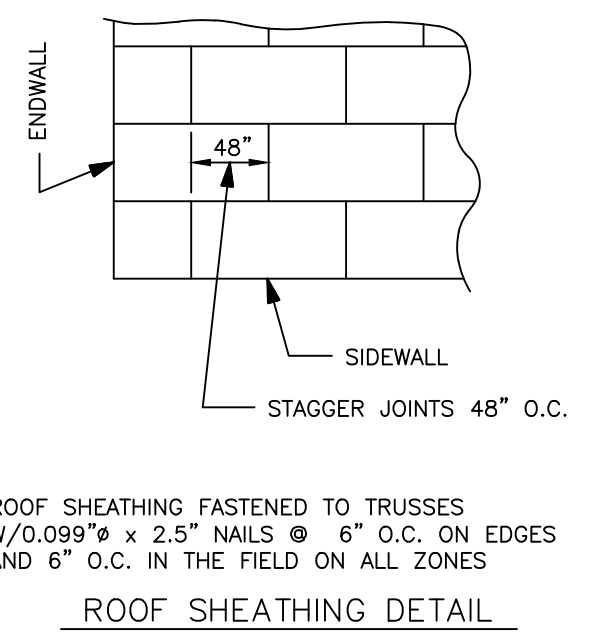


SITE INSTALLED 3/8" THREADED BOLTS (ASTM A307) WITH HEX NUT, & FENDER WASHERS. AT LEAST 3 THREADS SHALL BE EXPOSED ABOVE NUTS. INSTALL BOLTS 2 FOOT FROM EACH END OF MODULE AND 4' O.C. MAX. IN BETWEEN.

**MATE LINE FLOOR CONNECTION**  
NTS



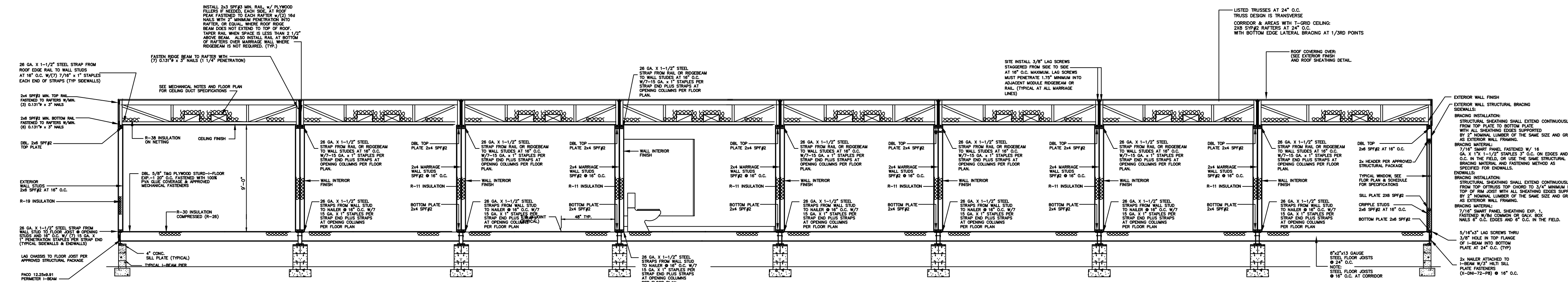
**BALLOON END WALL DETAIL**



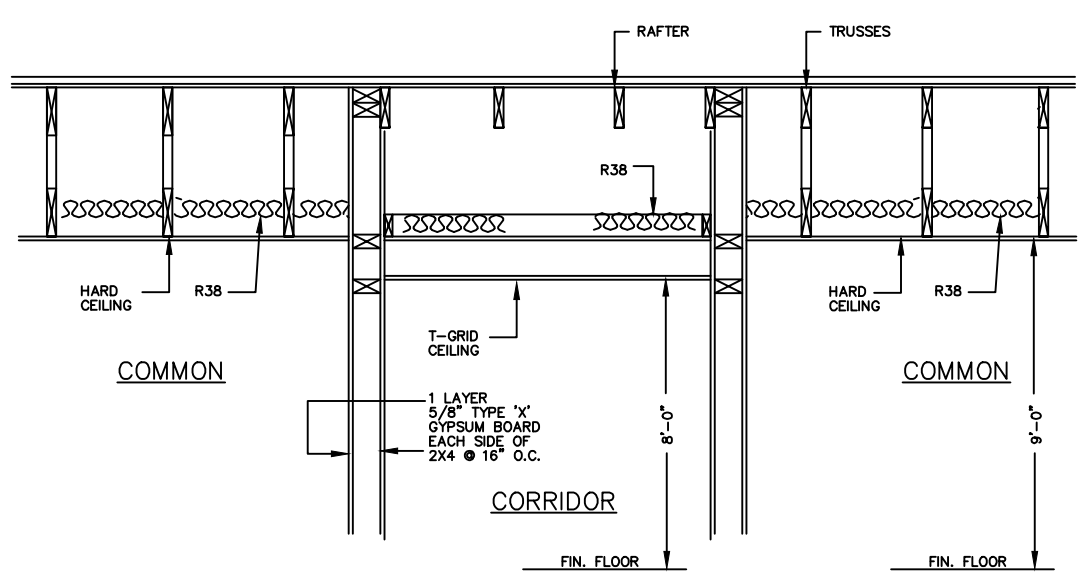
ROOF SHEATHING FASTENED TO TRUSSES W/0.099" x 2.5" NAILS @ 6" O.C. ON EDGES AND 6" O.C. IN THE FIELD ON ALL ZONES

APPROVED TRUSS DESIGN:  
SOUTHERN  
TRUSS MANUFACTURER: WOOD COMPONENTS  
TRUSS DRAWING. # -  
TRUSS DRAWING. # -

SEE DBI DESIGN PACKAGE PAGES C36.0-36.3 (ASCE 7-18) AND C35.0-35.3 FOR DIAGONAL BRACING AND ROOF JOIST GUSSET DETAILS.



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



**SECTION**

**GENERAL CROSS-SECTION NOTES:**

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

**RIDGE BEAM CONSTRUCTION:**  
(SEE FLOOR PLAN) 3/4" PLYWOOD, RATED SHEATHING, EXP.-1, STRUCT.-1, 5 PLY/5 LAYER, 48/24 EACH HALF CONTINUOUS ENTIRE LENGTH OF CLEARSPAN.

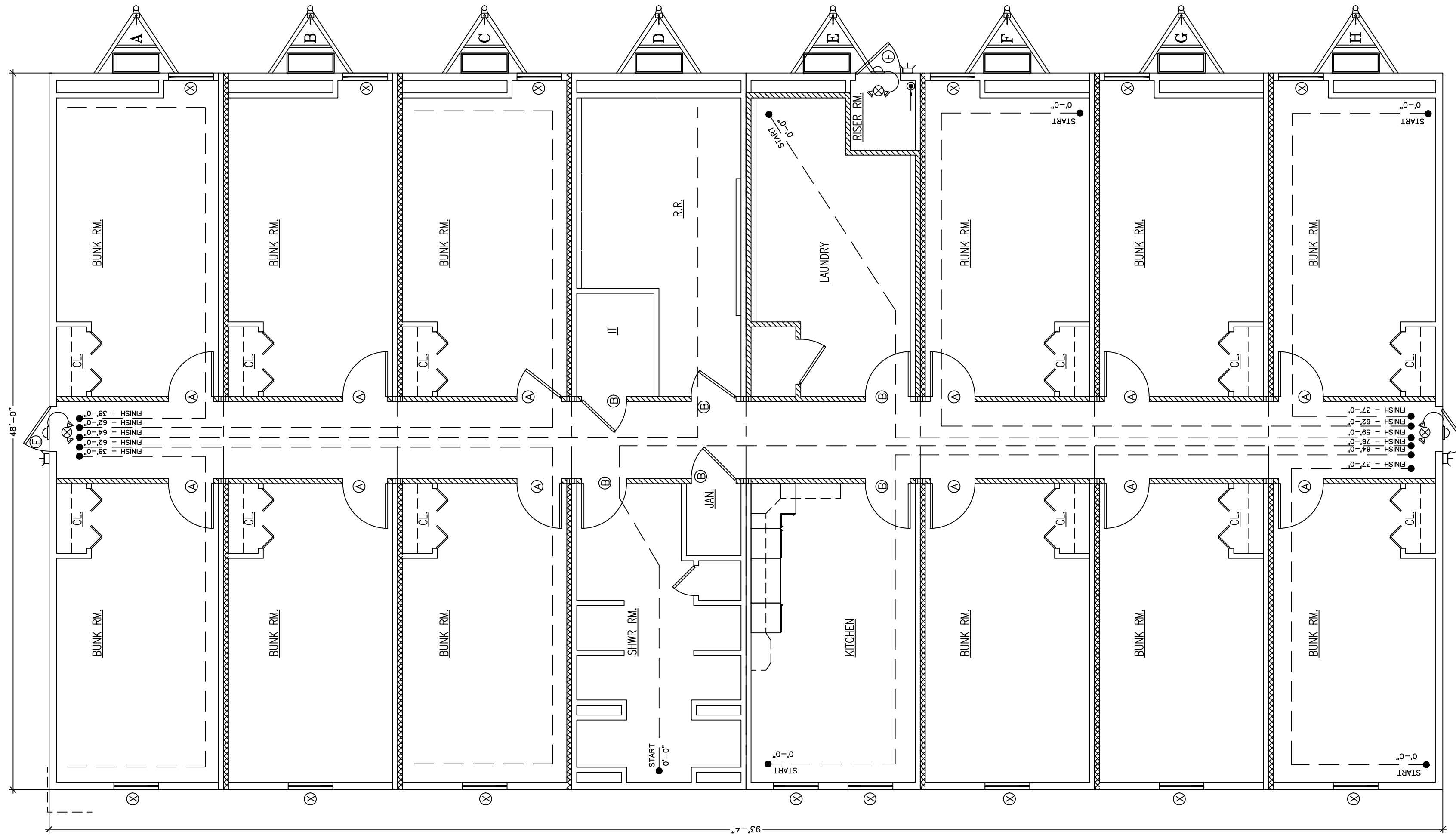
NOTES:

- PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
- ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
- ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD. NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
- PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS E-95.
- PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/PDS SUPPLEMENT #5, W/ AN ADHESIVE COMPLYING W/ASTM D2559 (SEE APPROVED PACKAGE FOR MECHANICAL FASTENER SPECIFICATIONS & SPACING REQUIREMENTS)
- PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
- MOISTURE CONTENT MUST BE LESS THAN 16%.
- BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
- INSTALL (2X4) X 20" SPF#3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS, WHEN SPECIFIED ON FLOOR PLAN; FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM W/ 100% GLUE COVERAGE AND (6) 16 GA. X 2-1/2" STAPLES.

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

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

<b>DIAMOND BUILDERS INC.</b> P.O. BOX 2200 DOUGLASS, GEORGIA 31534		440 THOMPSON DR. (912) 384-7080	
DATE: 4-24-23	SCALE: NO SCALE	<b>VSU SITE 2 AND 3 FEMALE BUILDING</b>	
CODES: SEE NOTES	STATES: VA, PA, NJ, MD, GA, NC	REFERENCE: 10717	BY: N.T. R.E.G.
MD, GA, NC	MD, PLAN NO: DBI-10717 MD	N.T.	R.E.G.
DBI10717-20 A-H		SHEET	
93'-4" x 48'-0" DORMITORY R-2		6 OF 6	
CROSS SECTION		DESTINATION: VIRGINIA STATE, VA	



LIFE SAFETY PARAMETERS	
1.	USE/OCCUPANCY: DORMITORY R-2
2.	AREA: 4480 S.F.
3.	OCCUPANT LOAD: OCCUPANT LOAD <u>68</u> BASED ON <u>50</u> NET SQ/FT PERSON IN CLASSROOMS.

NOTE:  
EACH EXIT DOOR IS ABLE TO ACCOMMODATE:  
(2) 36x80 DOOR: 32" CLEAR WIDTH EACH  
 $32/0.20 = 160$  EACH (2) = 320 PERSON TOTAL CAPACITY

CORRIDOR:  
62" CLEAR  $62/0.20 = 310$  PERSON CAPACITY  
NUMBER OF EXITS REQUIRED: 2  
NUMBER OF EXITS PROVIDED: 2

TRAVEL DISTANCE:	NO SPRINKLER	W/SPRINKLER
IBC (A.E.R.)	200 FEET	250 FEET
LIFE SAFETY	150 FEET	200 FEET

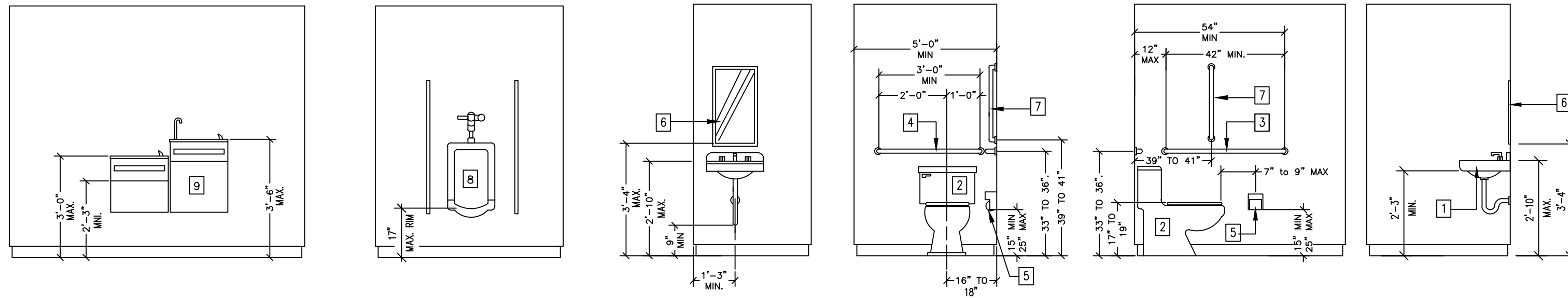
SYMBOL	DOOR SCHEDULE	TOTAL
A	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK W/SPRING LOADED HINGE AND SMOKE GASKET	20
B	36"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK	7
C	24"x80" 20 MINUTE FIRE-RATED IMPERIAL OAK	1
D	48"x80" DOUBLE BI-FOLD DOOR	20
E	36"x80" STEEL/STEEL W/5"x20" VIEW PANEL	2
F	36"x80" STEEL/STEEL BLANK EXTERIOR DOOR	1

SYMBOL	WINDOW SCHEDULE	TOTAL
X	36"x60" VERTICAL SLIDE, WHITE VINYL	22

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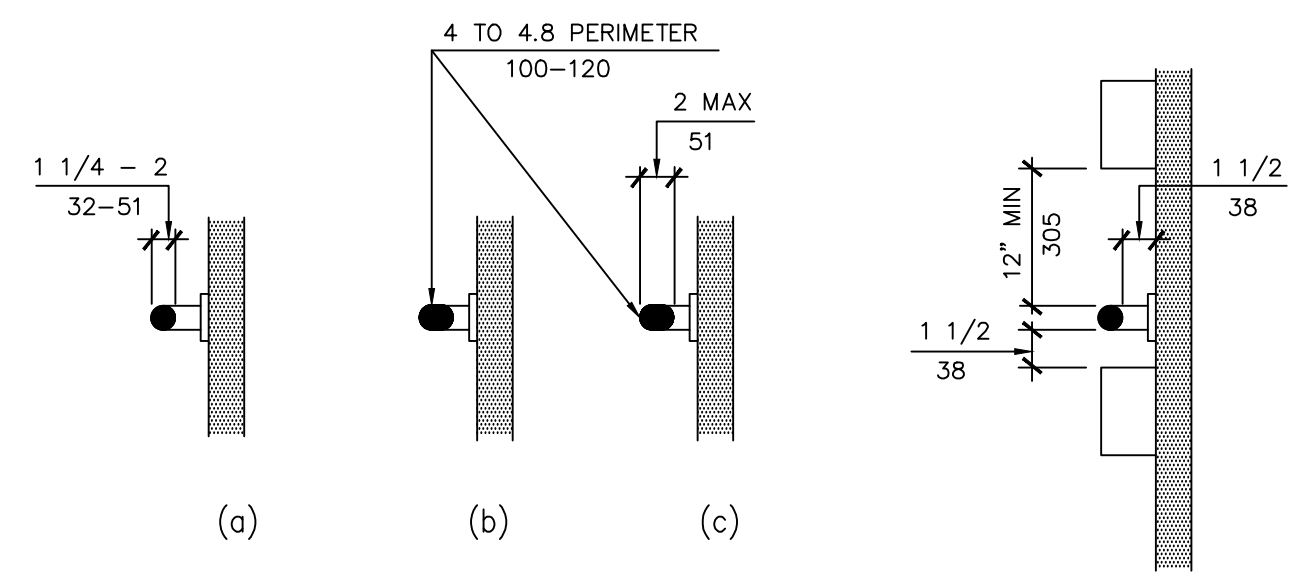
NEW JERSEY  
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18167 US 19 NORTH-SUITE 120  
CLEARWATER, FL. 33764 (727) 644-8193

<b>DIAMOND BUILDERS INC.</b> P.O. BOX 2200 DOUGLASS, GEORGIA 31534 440 THOMPSON DR. (912) 384-7080		<b>VSU SITE 2 AND 3 FEMALE BUILDING</b>		
		DATE: 4-24-23	SCALE: NO SCALE	BY: R.E.G.
STATES: VA, PA, NJ, MD, GA, NC.	REFERENCE: 10717	MD. PLAN NO: DBI-10717 MD	N.T	LS-1
DBI10717-20 A-H 93'-4" x 48'-0" DORMITORY R-2			DESTINATION: VIRGINIA STATE, VA	
LIFE SAFETY				

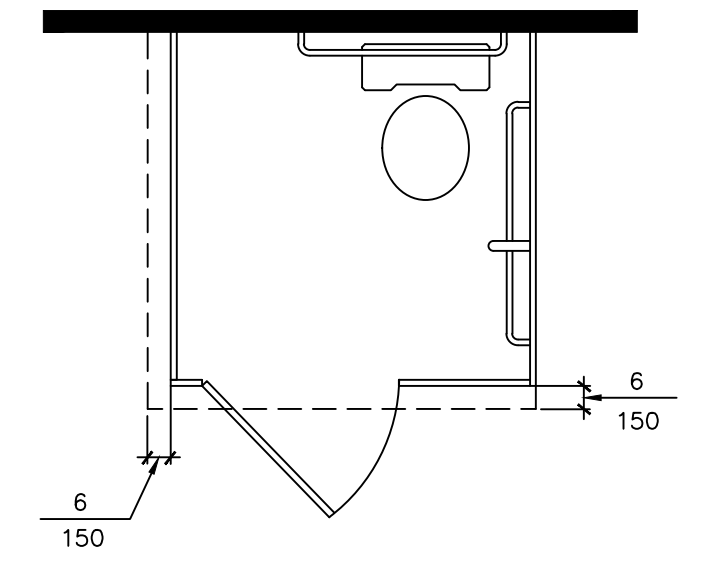
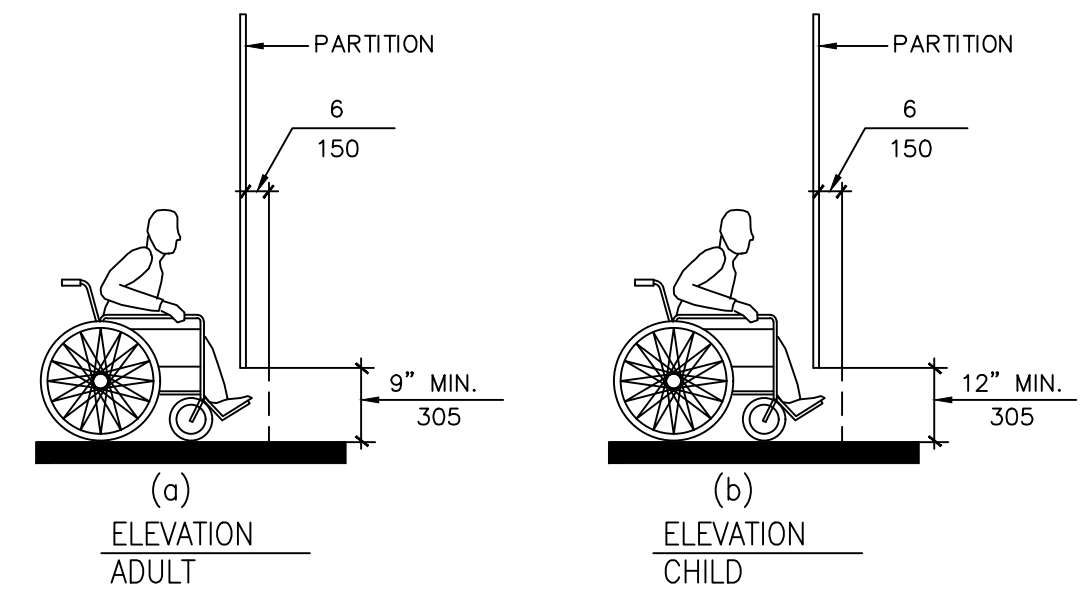
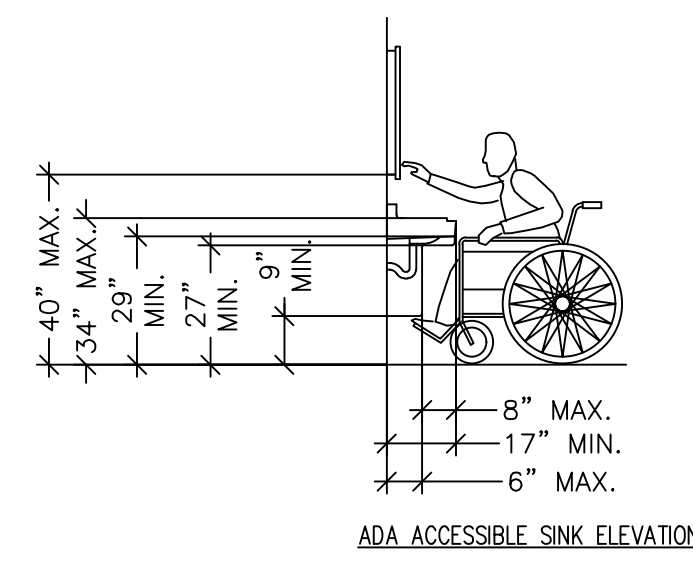


- LEGEND:**
- 1 LAVATORY
  - 2 H/C WATER CLOSET
  - 3 42" GRAB BAR  
12 INCHES MAXIMUM FROM REAR WALL
  - 4 36" GRAB BAR
  - 5 TOILET PAPER HOLDER
  - 6 MIRROR
  - 7 18" VERT GRAB BAR
  - 8 URINAL
  - 9 HI-LO FOUNTAIN

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



**GRAB BAR DETAIL**



**TYP. TOE CLEARANCE**  
TOILET AND STALL

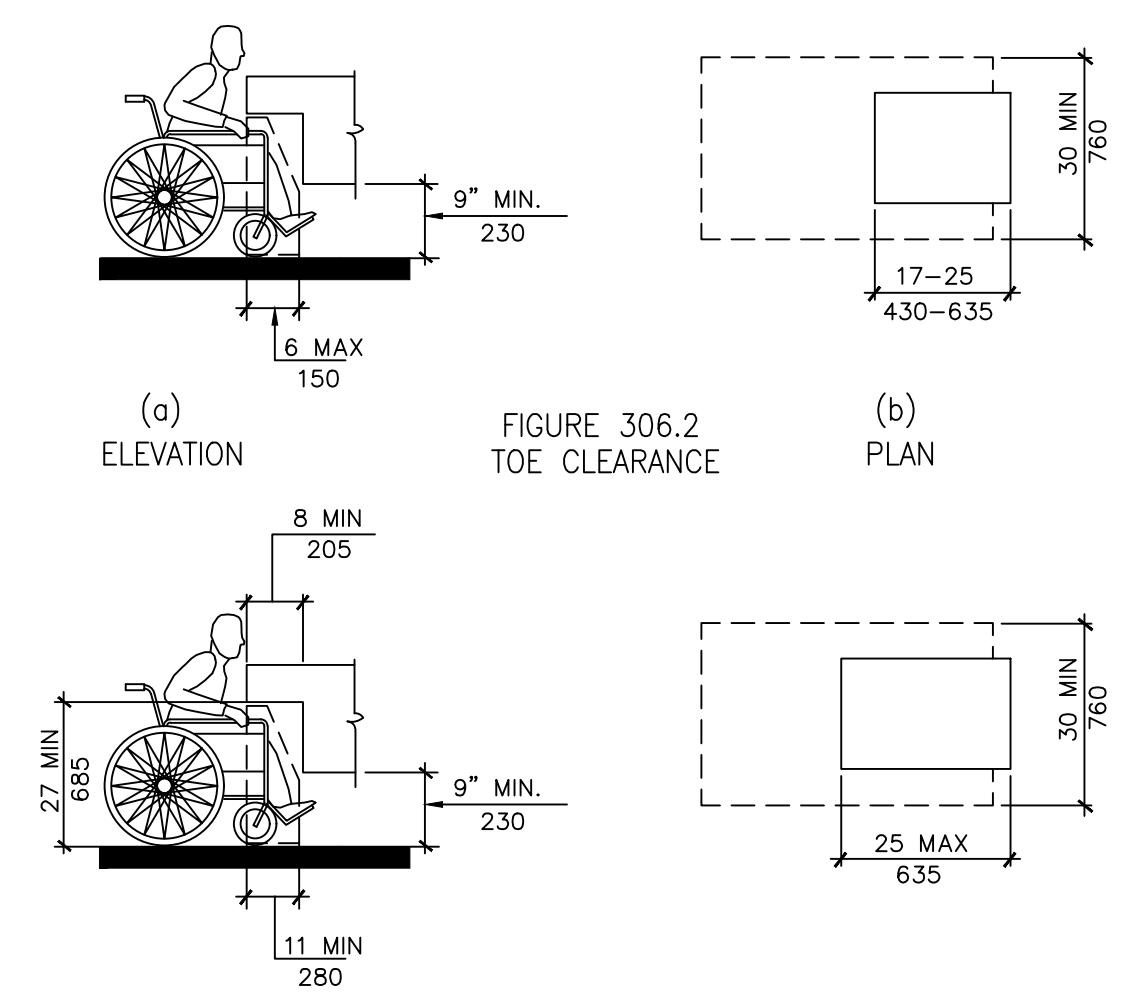
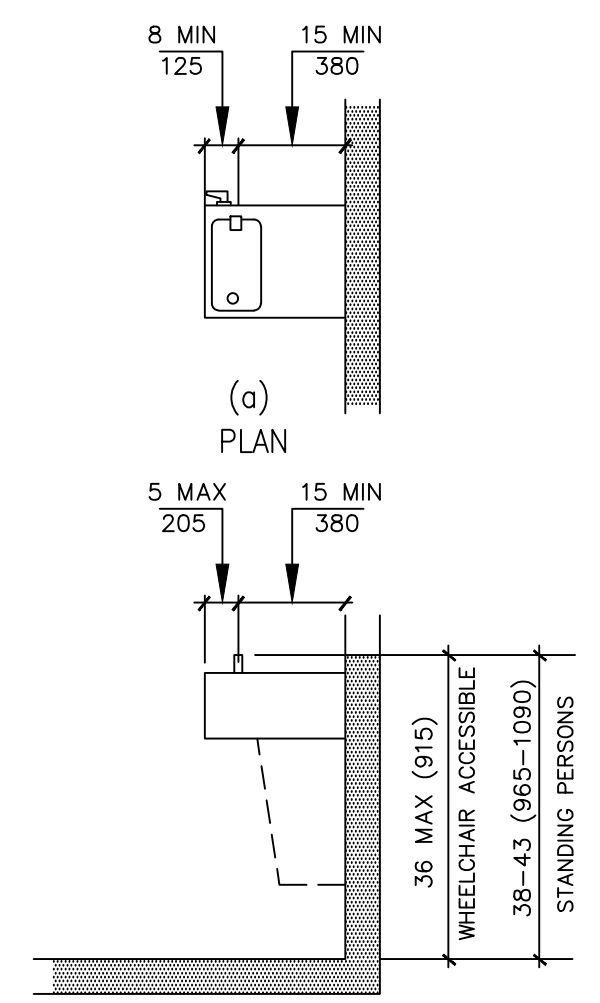


FIGURE 306.2 TOE CLEARANCE

THESE DETAILS ARE BASED ON 2020 ADA REQUIREMENTS

FOR BUILDINGS THAT UTILIZES OTHER ACCESSIBILITY CODES, REFER TO APPLICABLE CODES SPECIFIC REQUIREMENTS

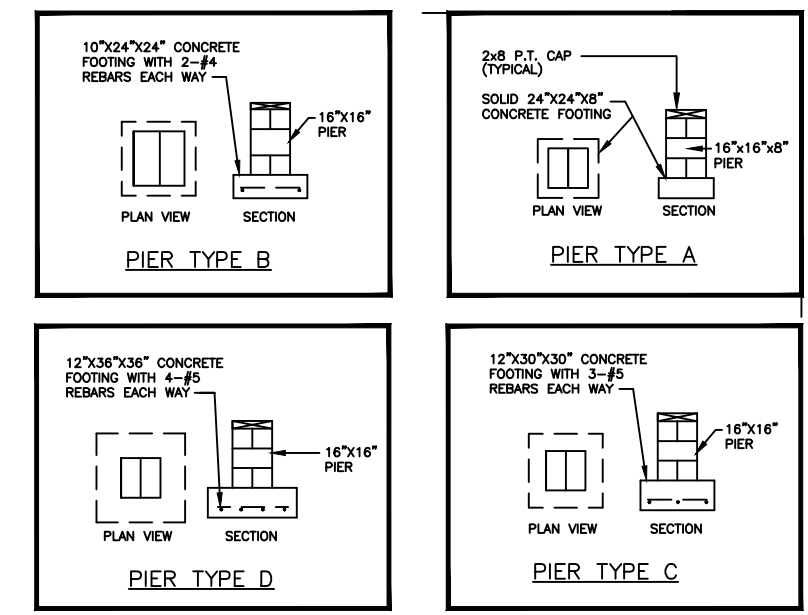
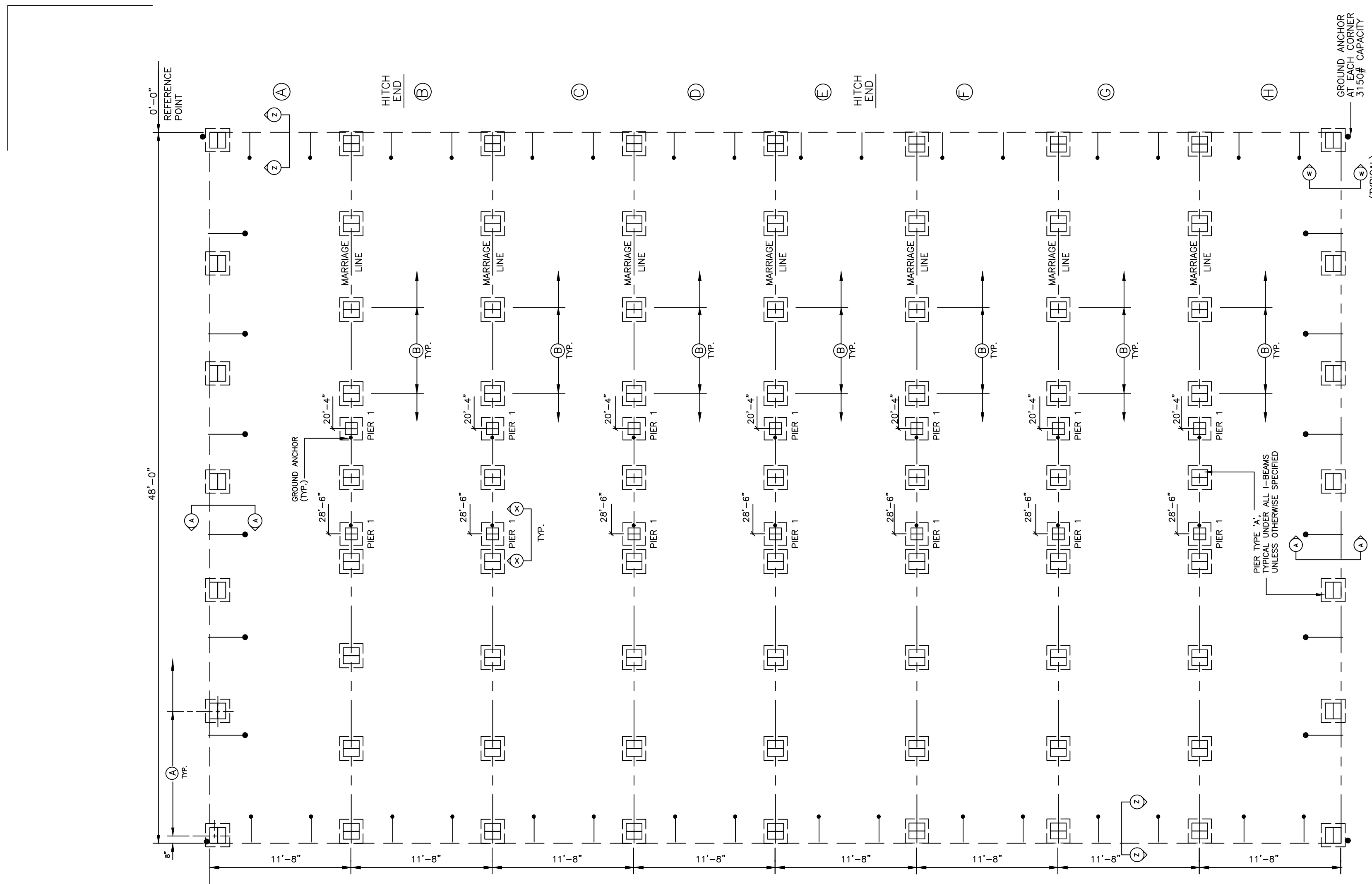
ALL IDEAS, DESIGNS, ARRANGEMENTS, DRAWINGS AND PLANS SET FORTH ON THIS SHEET ARE THE ORIGINAL WORK PRODUCT OF, ARE OWNED BY AND ARE THE PROPERTY OF DESIGNER/DRAFTER OF RECORD" (FINE LINE DRAFTING) AND USE OF THIS SAID WORK PRODUCT IS LIMITED TO A SPECIFIED PROJECT OF THE PURCHASER, AND FOR THE CONSTRUCTION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

**TYP. DRINKING FOUNT. ELEVATIONS**  
HEIGHTS AND CLEARANCES

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STATES: VA, PA, NJ, MD, GA, NC.	93'-4" x 48'-0" DORMITORY R-2			AD-1	
DESTINATION: VIRGINIA STATE, VA			ACCESSIBLE DETAILS		



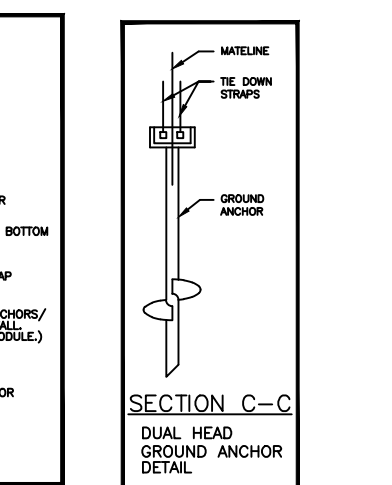
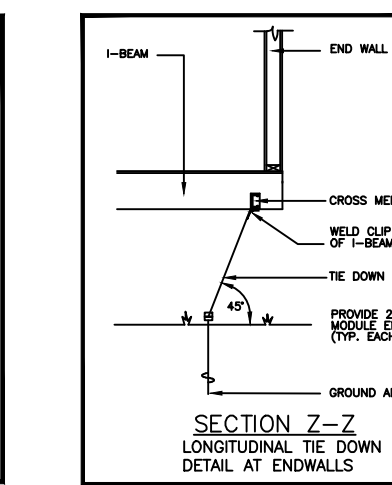
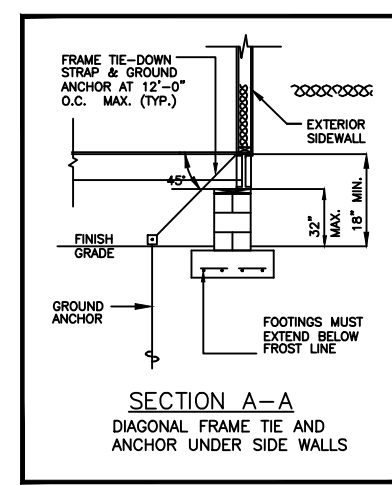
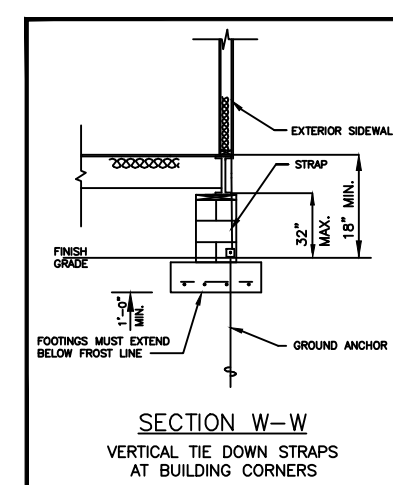
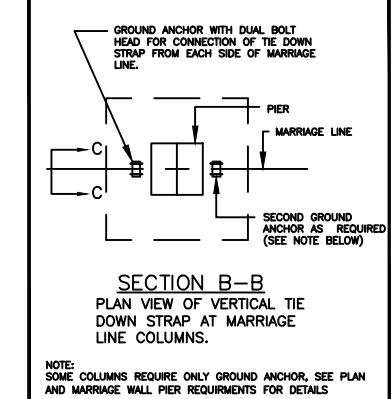
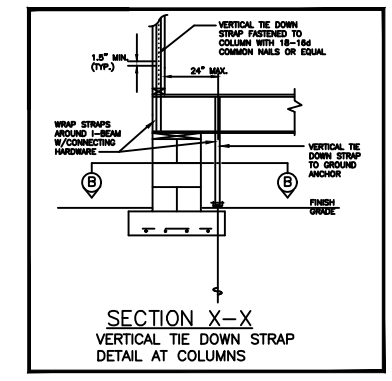
FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA, AND AN 18" X 24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.

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
Ⓐ SIDEWALLS	Ⓑ MATELINE	
9'-0"	5'-0"	2000 PSF
9'-0"	7'-11"	3000 PSF

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

- FOUNDATION NOTES:**
- ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
  - TIE-DOWN STRAPS TO BE 1/4" X 200" TYPE-1 FIBER BR BRIDGE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM A653-91. THE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.
  - GROUND ANCHORS SHALL HAVE 3150# MINIMUM WORKING CAPACITY, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. LOCATION OF GROUND ANCHORS INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF REINFORCING BARS, 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.
  - THE FIRST TIE-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
  - ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE Laid IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.
  - MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
  - ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
  - SEE SHEET 1 OF 6 FOR BUILDING DESIGN LOADS.
  - I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (DO NOT FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
  - SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
  - INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY - OPTIONAL WHEN NOT SHOWN) SLIGHT MISALIGNMENT MAY BE REQUIRED TO INSURE OPENING AFTER INSTALLATION OF BUILDING IS COMPLETE.
  - THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION. SHOULD CORRECTED 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.



**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 INSPECTION REQUIREMENTS. EMC IS NOT THE DESIGNER OF THE BUILDING OR THE FOUNDATION AND IS NOT RESPONSIBLE OR LIABLE FOR ANY CONFLICTS, ERRORS, OMISSIONS 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

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

**VSU SITE 2 AND 3 FEMALE BUILDING**

DATE: 4-24-23  
SCALE: NO SCALE  
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STATES: VA, PA, NJ, MD, GA, NC. REFERENCE: 10717 BY: N.T. BY: R.E.G.  
MD, PLAN NO: DBI-10717 MD  
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93'-4" x 48'-0" DORMITORY R-2  
FOUNDATION DESTINATION: VIRGINIA STATE, VA

SHEET 1 OF 1