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.
5. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. – 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
6. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
7. WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6" OF OVERHANG, GUTTERS AND DOWN SPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. IN WIND–BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND–BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC.
9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.
10. STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURERS STATE APPROVED BUILDING SYSTEM MANUAL.
11. BUILDING DESIGNED FOR TEXAS THERMAL ZONE 2o
12. A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION.

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 0.5 CFM PER SQUARE FEET OF DOOR AREA.

PLUMBING NOTES:

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. FLOORS SHALL 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, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
6. DWV SYSTEM SHALL BE EITHER ABS OR PVC – DWV.
7. WATER SUPPLY LINES SHALL BE CPVC, OR COPPER; AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
8. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE SPECIFIED.
9. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
11. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
13. WATER, SOIL AND WASTE PIPES IN UNCONDITION SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING.
14. CUSTOMER ASSUMES ALL RESPONSIBILTY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
15. WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER IPC SECTION 403 ARE NOT PROVIDED WITHIN THE BUILDING, IT MUST BE PROVIDED ON SITE AND BE HANDICAPPED ACCESSIBLE, AND ARE SUBJECT TO THE APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY (THIS NOTE SHALL BE INDICATED ON THE DATA PLATE).
16. 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)
17. TEMPERATURE ACTUATED MIXING VALVES WHICH ARE INSTALLED TO REDUCE WATER TEMPERATURE TO DEFINE LIMITS SHALL COMPLY WITH ASSE 1017
18. THE FIRST 8 FEET OF HOT 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/h x ft. x F.
19. WATER HEATER SHALL BE PLUMBED WITH HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING CONNECTED TO THE HEATER.
20. 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.

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 "STORAGE AREA" AS DEFINED BY NEC 410–8(a).
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLI–ANCE WITH SECTION 110–9 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 AND NCEC
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).

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES x 24 INCHES ADJUSTABLE WITH 10 INCHES x 20 INCHES (NSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R–5 MINIMUM INSULATION EXCEPT DUCTS EXPOSED TO VENTILATED ATTICS AND CRAWL SPACES SHALL HAVE R–6.5 INSULATION.
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 10 CFM PER PERSON & 0.12 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF IMC & NCMC.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. EXHAUST FANS SHALL PROVIDE A MINIMUM OF 75 CFM FOR EACH WATER CLOSET AND URINAL.
6. PERMISSIBLE TYPE OF GAS FOR APPLIANCES – NONE (ALL ELECTRIC).

SPECIAL CONDITIONS AND/OR LIMITATIONS

1. THE BUILDING DESIGN HAS BEEN APPROVED FOR USE ONLY IN THOSE AREAS WITHIN THE SCOPE OF THE STRUCTURAL LOAD LIMITATIONS AND CLIMATE DESIGN CRITERIA INDICATED BELOW.
2. SEE THE BLUIDING SITE INSTALLATION REQUIRMENT NOTES FOR WORK REQUIRING ON–SITE INSPECTIONS.
3. VENTILATION OF THE RAFTER OR ATTIC SPACE SHALL BE ACCORDANCE WITH THE REQUIRMENTS OF THE LOCAL BUILDING OFFICAL.
4. ACCESSIBLE PLUMBING FACILITIES COMPLYING WITH THE MINIMUM CODE REQUIRMENTS MUST BE AVAILABLE IN ANOTHER BUILDING ON THE SAME SITE.
5. THE DESIGN OF THE BUILDING HAS NOT BEEN EVALUATED FOR COMPLIANCE WITH THE TDI WIND STORM INSPECTION PROGRAM REQUIRMENTS.

LOUISIANA NOTES:

1. Exterior site related items shall be addressed by the local engineer and/or contractor, and are out of the limitations of this approval. Such items are including, but not limited to: ramps, site plan, parking spaces, location of building with respect to property lines, exterior lighting, access to public ways, stairs handrails and site related utilities.
2. This approval is for the building design and construction only.
3. All accessibility related items listed are based on the 28 CFR Part 36, of the ADA Standards for Accessible Design.
4. The centerline of accessible toilets shall be 16" to 18" from the nearest side wall or partition (17" to 19" for ambulatory comport.)
5. Lavatories shall meet the criteria listed in Acc. Note # 10.
6. Hot water drain pipes shall be insulated or covered.
7. Faucets shall meet the criteria listed in Acc. Note # 12.
8. Mirrors shall meet the criteria listed in Acc. Note # 13.
9. Toilet room grab bars shall comply with Acc. Note # 8.
10. A 60" diameter clear floor space shall be provided within each occupiable room for turning.
11. All doors provided provide a minimum 32" clear width.
12. Manuevering clearances at doors comply with figure 404.2.4.1
13. Thresholds shall comply with Acc. Note # 7.
14. Changes in floor elevation shall comply with Acc. Note # 7.
15. See note # 1 regarding ramps and stairs.
16. Permanent signage shall comply with ADA 703.1
    - A. Signage, where provided for permanent rooms and spaces shall provide:
      - (1). Braille and raised lettering as per 703.3
      - (2). Letter/symbol to background color contrast per 703.5.1
      - (3). tactile characters on signs shall be located between 48 and 60 inches above finished floor, per 703.4.
    - B. Other permanent signs which provide direction to or information about functional spaces of the building shall provide:
      - (1). Letter character width to height proportion per 703.5.4
      - (2). Character height proportion based on height of sign from finish floor per 703.5.5 and
      - (3). Letter/symbol to background color contrast per 703.5.1
17. Locks on doors in means of egress shall not require the use of a key, special device or special knowledge to open.
18. Door shall be capable of being opened with ONLY one releasing operation. Knobs w/ independant slide bolts are not acceptable.
19. Interior walls and ceilings shall have a flame spread of 0–200 and a smoke developed rating of 0–450.
20. Fire extinguishers, installed on site by others, shall comply with NFPA 10.

ACCESSIBILITY NOTES:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (I.E. TOUCH LATCHES, U–SHAPED PULLS); SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH; CLOTHES RODS OR COAT HOOKS SHALL BE A MAXIMUM OF 48 INCHES ABOVE THE FLOOR (46 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION; HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING,WHICH–EVER IS LOWER.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR HINGED DOORS.
7. 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 REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 INCHES 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 (THIS EXCLUDES SINKS IN CABINETRY). KNEE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE, AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE; THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESIBLE FAUCETS (I.E. LEVER–OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
13. MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 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 – OPERRATED, 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 LIMITATIONS TX.

OCCUPANCY CATEGORY: II

FLOOR LIVE LOAD:
A. 40 PSF, 100 PSF CORRIDOR
B. 1000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR

ROOF LIVE LOAD:
A. 20 PSF

SNOW LOAD:
A. Pg = 20 PSF GROUND SNOW LOAD
B. Pf = 20 PSF FLAT ROOF SNOW LOAD
C. Ce = 1.0 SNOW EXPOSURE FACTOR
D. Is = 1.1 SNOW IMPORTANCE FACTOR
E. Ct = 1.0 SNOW THERMAL FACTOR

WIND LOAD: ASCE 7–05
A. 130 WIND SPEED
B. Iw = 1.15 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi= 0.18 INTERNAL PRESSURE COEFFICIENT
E. Pw: ZONE 4: 47.4 PSF
ZONE 5: 57.0 PSF
Pr: ZONE 1: 43.1 PSF
ZONE 2: 68.5 PSF
ZONE 3: 115.3 PSF

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

SEISMIC LOAD:
A. Ie = 1.25 SEISMIC IMPORTANCE FACTOR
B. D SITE CLASS
C. A13 SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
F. Sa = ≤ .537 MAPPED SPECTRAL RESPONSE COEF.
G. S1 = ≤ .285 MAPPED SPECTRAL RESPONSE COEF.
H. Sds = ≤ .49 SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = ≤ .34 SPECTRAL RESPONSE COEFFICIENT
J. V = 29,031 LB DESIGN BASE SHEAR
K. R = 6.5 RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.08 SEISMIC RESPONSE COEFFICIENT

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

STRUCTURAL LOAD LIMITATIONS AR, LA, MS, OK.

BUILDING RISK CATEGORY: II

FLOOR LIVE LOAD:
A. 40 PSF, 100 PSF CORRIDOR
B. 1000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR

ROOF LIVE LOAD:
A. 20 PSF

SNOW LOAD:
A. Pg = 20 PSF GROUND SNOW LOAD
B. Pf = 20 PSF FLAT ROOF SNOW LOAD
C. Ce = 1.0 SNOW EXPOSURE FACTOR
D. Is = 1.1 SNOW IMPORTANCE FACTOR
E. Ct = 1.0 SNOW THERMAL FACTOR

WIND LOAD: ASCE 7–10
A1 Vult= 170 MPH WIND SPEED
A2 Vasd = 130 MPH WIND SPEED
B. Iw = 1.0 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi= 0.18 INTERNAL PRESSURE COEFFICIENT
E. Pr: ZONE 1: 42.3 PSF Pw: ZONE 4: 45.9 PSF
ZONE 2: 71.0 PSF ZONE 5: 56.6 PSF
ZONE 3: 106.9 PSF

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

SEISMIC LOAD:
A. Ie = 1.25 SEISMIC IMPORTANCE FACTOR
B. D SITE CLASS
C. A13 SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
F. Sa = ≤ .537 MAPPED SPECTRAL RESPONSE COEF.
G. S1 = ≤ .285 MAPPED SPECTRAL RESPONSE COEF.
H. Sds = ≤ .49 SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = ≤ .34 SPECTRAL RESPONSE COEFFICIENT
J. V = 29,031 LB DESIGN BASE SHEAR
K. R = 6.5 RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.08 SEISMIC RESPONSE COEFFICIENT

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD 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. WINDOW AND DOOR HIGH WIND STORM COVERINGS (PER CODE) SEE GENERAL NOTE 8.
5. ELECTRICAL SERVICE HOOK–UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB–FEEDERS
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINE(S) – (MULTI–UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI–UNITS ONLY).
9. EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY)
10. BUILDING DRAINS, CLEANOUTS, DRINKING FOUNTAIN, SERVICE SINK, HOOK–UP TO PLUMBING SYSTEM.
11. FIRE ALARM

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL
This document is approved pursuant to the Industrialized Housing and Buildings Act.
DRA No. 21 IBC ✓IRC
Date: 10 10 2016
DRA Signature:

EMC APPROVED 10 10 2016

ALLOWABLE BUILDING AREA

1. TABLE 503 ALLOWABLE AREA = 9,500 SQ. FT.
2. SECTION 506 FRONTAGE INCREASE ALLOWS FOR AN ADDITIONAL 75% (9,500 x 1.75 = 16,625)
3. ALLOWABLE AREA: 16,625 SQ. FT. > 10,387 SQ. FT.

BUILDING DESIGN PARAMETERS

1. USE/OCCUPANCY: EDUCATION
   AGE GROUP: HIGH SCHOOL
2. CONSTRUCTION TYPE: VB
3. SPRINKLER SYSTEM: NO
4. BUILDING AREA: 10387 S.F.
5. BUILDING HEIGHT: 15 FEET
6. NUMBER OF STORIES: 1
7. NUMBER OF MODULES: 13
8. OCCUPANT LOAD 284 BASED ON 20 NET SF/PERSON
9. EXTERIOR WALL FIRE RATING: NOT RATED
10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC & NCBC 602 AND SECTION 705.3 AND SECTION 704.3
11. ENGERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.
12. MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

TEXAS EXT. DOOR SPECIFICATIONS:

1. SOLID
2. METAL WITH FOAM CORE
3. Uo = 0.292
4. SWINGING
5. MAX. ALLOWABLE AIR LEAKAGE RATE: 0.5 CFM (PER SQ. FT. OF DOOR AREA)

TEXAS WINDOW SPECIFICATIONS:

1. METAL WITHOUT THERMAL BREAK
2. OPERABLE
3. DOUBLE PANE CLEAR GLASS
4. Uo = 0.45
5. SHGC = 0.25
6. MAX. ALLOWABLE AIR LEAKAGE RATE: 0.3 CFM (PER SQ. FT. OF WINDOW AREA)

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILTY	ENERGY CODE
OKLAHOMA	2015 IBC W/MODIF.	2014 NEC W/MODIF.	2015 IMC W/MODIF.	2015 IPC W/MODIF.	ADAAG	2009 IECC
LA.	2012 IBC EXCEPT CHAPT. 1, 11, 27, 29, 2012 NFPA 101	2011 NEC	2012IMC	2012 IPC	2010 ADASAD	ASHRAE 90.1 2007
AR.	2012 AR FPC VOL 1 & 2/2012 IBC & IFC WITH STATE AMEND.	2014 NEC W/STATE AMEND.	2010 AR MECH CODE (2009 IMC W/AMENDS.)	2006 AR PC 9TH EDITION 2006 AR IPC W/AMENDS.	2009 ANSI A117.1 (2012 IBC CHAPTER 11)	2014 AR EC 2009 IECC W/STATE AMENDS.
MISS.	2012 IBC 2012 NFPA 101	2014 NEC	2012 IMC	2012 IPC	2010 ADA 2009 ANSI A117.1–2009	ASHRAE 90.1–2007
TEXAS	2009 IBC W/APPEND. C, F, K	2011 NEC	2009 IMC	2009 IPC W/APPEND. C, E, F, G	2012 TAS	2009 IECC

Reg. P.E. Firm Name:
James E. Bradley
Firm Reg. # F-1285

JAMES EDWARD BRADLEY LICENSED PROFESSIONAL ENGINEER 05859 STATE OF MISSISSIPPI

STATE OF TEXAS JAMES EDWARD BRADLEY 36684 LICENSED PROFESSIONAL ENGINEER

VALID STATE OF LOUISIANA JAMES E. BRADLEY License No. 13772 PROFESSIONAL ENGINEER
October 10, 2016

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.3573 JAMES E. BRADLEY

LICENSED PROFESSIONAL ENGINEER James E. Bradley 9480 OKLAHOMA

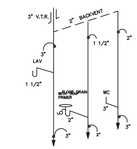
CONSULTING ENGINEER | JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857–2458

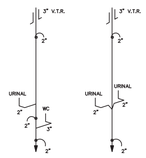
FIRST STRING SPACE INC.
OUR STRENGTH IS TEAMWORK

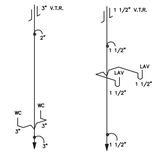
FIRST STRING SPACE

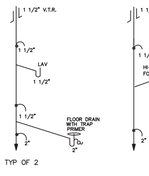
892 RAILROAD AVE. EAST
PEARSON, GEORGIA 31642 (912) 422–6455

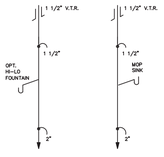
DATE: 9–29–16	REVISIONS:
SCALE :NO SCALE	
CODES: SEE NOTES	
STATES: AR, LA, MS, TX, OK	BY: J.B.
REFERENCE: 5107–13	
FSS5107–13 A–L 156 x 68 EDUCATIONAL	SHEET 1 OF 6
COVER SHEET	DESTINATION: DONNA. TX.



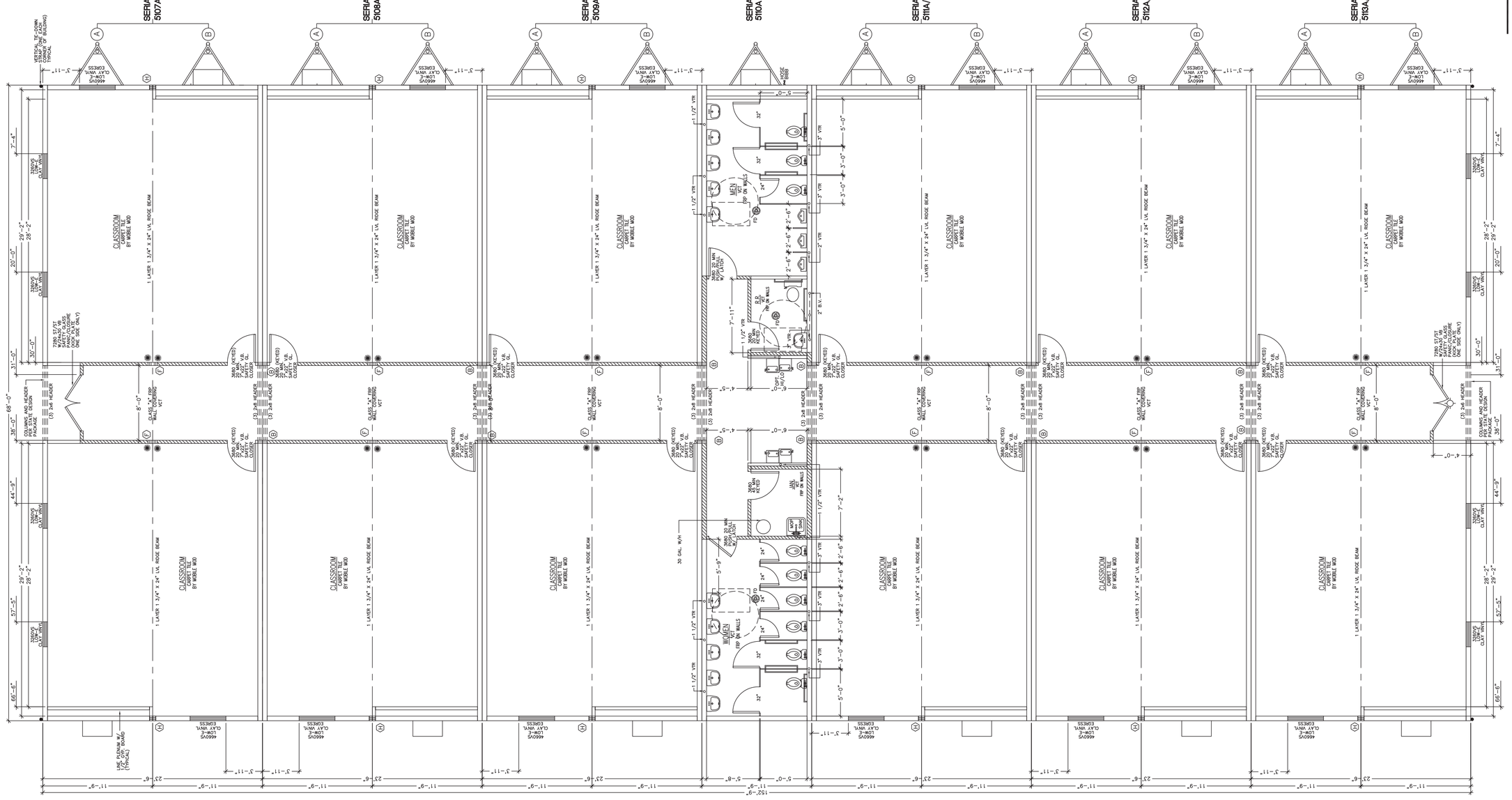








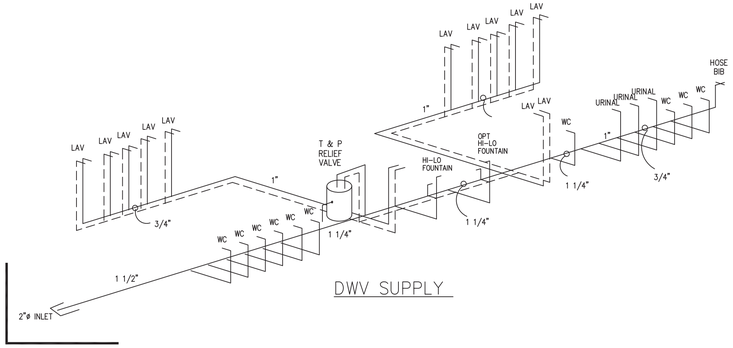
DWV RISER NTS



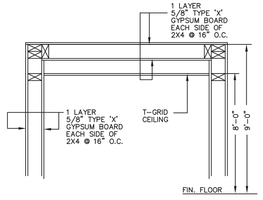
SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

——— COLD
— — — — HOT

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



DWV SUPPLY



ONE HOUR CONSTRUCTION

PENETRATION OF FIRE RESISTANT WALLS AND CEILING:

1. COMBUSTIBLE CABLES AND WIRES, COMBUSTIBLE PIPES, TUBES, AND CONDUIT SHALL MEET TESTING REQUIREMENTS OF ASTM E119 AS PART OF THE FIRE RESISTANT ASSEMBLY OR SHALL HAVE THROUGH-PENETRATION FIRESTOP SYSTEMS LISTED AND TESTED AS PER ASTM E814 TO PROVIDE AN F RATING AND A TEMPERATURE (T) RATING BETWEEN THE EXPOSED AND UNEXPOSED SURFACES OF THE PENETRATION SYSTEM EQUAL TO OR GREATER THAN THE REQUIRED RATING OF WATER AND HAVE AN F RATING OF AT LEAST 1 HOUR BUT NOT LESS THAN THE RATING OF THE ASSEMBLY.
2. CABLES AND WIRES WITHOUT COMBUSTIBLE INSULATIONS AND, NONCOMBUSTIBLE PIPES, TUBES, AND CONDUITS SHALL BE PROTECTED AS DESCRIBED ABOVE OR SHALL HAVE THE ANNULAR SPACE FILLED 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 ON OPPOSITE SIDES OF FIRE RESISTANT WALLS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
4. ALL CEILING FIXTURES SHALL BE SURFACE MOUNTED.
5. DUCTS PENETRATING FIRE RESISTANT CEILINGS SHALL HAVE AN ACCESSIBLE LISTED FIRE DAMPER LOCATED AT THE CEILING LINE.
6. ALL FIRE RATED DOORS SHALL HAVE LISTED DOOR, FRAME, AND HARDWARE NO LESS THAN THE TIME RATING SPECIFIED ON THE FLOOR PLAN. IN ADDITION FIRE RATED DOORS SHALL BE EQUIPPED WITH SELF CLOSERS AND POSITIVE LATCHING HARDWARE.

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

DROP CEILING: 1 HOUR PER GA FILE NO. WP3605

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

NOTE:
VISION PANELS IN 20 MIN. RATED DOORS MUST COMPLY WITH THE FOLLOWING REQUIRMENTS:
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.

COLUMN STRAPPING SCHEDULE:

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

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL
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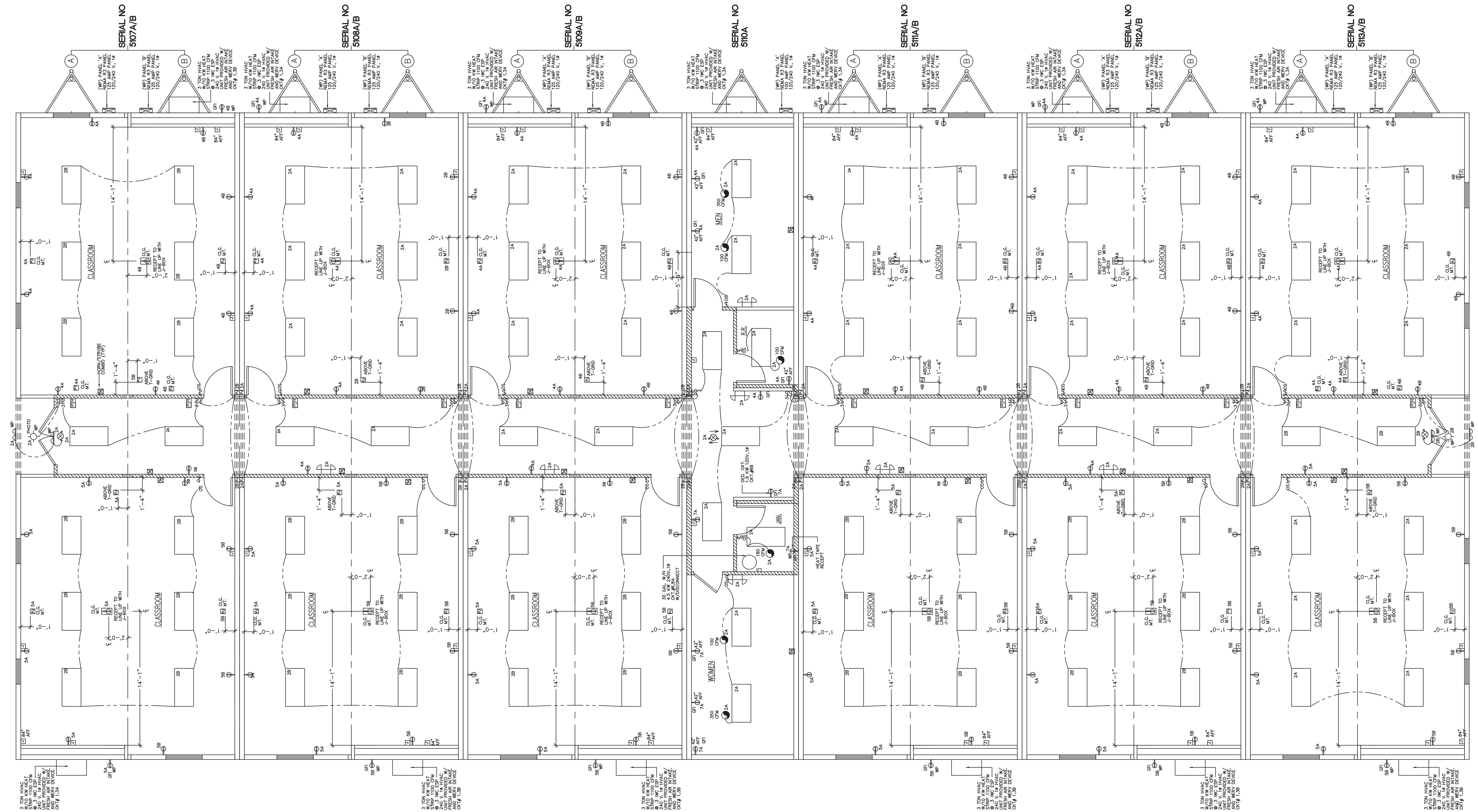

SYMBOLS

J-BOXES ONLY

- P — FIRE ALARM PULL STATION
- H — FIRE ALARM HORN/STROBE
- S — FIRE ALARM STROBE LIGHT
- J — JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- INCANDESCENT LIGHT WITH 1- 60 W. BULB
- COMPACT FLOURESENT LIGHT 1-60 W. BULB
- HIGH PRESSURE SODIUM LIGHT
- METAL HALIDE WALL PACK
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2-150W BULBS
- THERMOSTAT
- FLUORESCENT FIXTURE WITH 2-32W TUBES
- EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT SIGN W/BATTERY BACKUP
- EMERGENCY LIGHT WITH BATTERY BACKUP
- TELEPHONE JACK
- SWITCH & 3 WAY SWITCH
- OCCUPANCY SENSOR SWITCH
- F.E. — FIRE EXTINGUISHER

SERIAL NO 5113A/B

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING .0030 KW/SF X 1399 SF X 1.25=		5.3
14 RECEPTS AT 180VA/1000=		2.7
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 18.5
TOTAL/240 X 1000= 77 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING .0030 KW/SF X 187 SF X 1.25=		1.0
11 RECEPTS AT 180VA/1000=		2.0
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 13.5 KW
TOTAL/240 X 1000= 57 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

SERIAL NO 5112A/B

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

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
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 16.5 KW
TOTAL/240 X 1000= 69 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING .0030 KW/SF X 606 SF X 1.25=		2.3
12 RECEPTS AT 180VA/1000=		2.2
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 15 KW
TOTAL/240 X 1000= 63 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

SERIAL NO 5111A/B

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

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
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 16.5 KW
TOTAL/240 X 1000= 69 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING .0030 KW/SF X 606 SF X 1.25=		2.3
13 RECEPTS AT 180VA/1000=		2.4
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 15.2 KW
TOTAL/240 X 1000= 64 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

SERIAL NO 5110A

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #8 GRND.
6, 8	WATER HEATER	30 A(2P)	10-2 EMT
4, 7	RECEPTACLES	20 A	12-2 EMT
2	LIGHTING/FAN	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING .0030 KW/SF X 793 SF X 1.25=		3.0
8 RECEPTS AT 180VA/1000=		1.5
WATER HEATER 4.5 KW =		4.5
6 FANS AT .3 KW X 1.25=		2.4
HVAC		10.5

TOTAL 21.9 KW
TOTAL/240 X 1000= 92 AMPS
INSTALL 100 AMP PANEL
120/240 V 1Ø

SERIAL NO 5109A/B

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING .0030 KW/SF X 980 SF X 1.25=		3.7
13 RECEPTS AT 180VA/1000=		2.4
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 16.3 KW
TOTAL/240 X 1000= 68 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
6	DED. CKT. 1.9KW 120V.,1ø	20 A(1P)	12-2 EMT
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING .0030 KW/SF X 606 SF X 1.25=		2.3
13 RECEPTS AT 180VA/1000=		2.4
DED. CKT 1.9KW x 1.25 =		2.4
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 17.6 KW
TOTAL/240 X 1000= 74 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

SERIAL NO 5108A/B

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING .0030 KW/SF X 980 SF X 1.25=		3.7
13 RECEPTS AT 180VA/1000=		2.4
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 16.3 KW
TOTAL/240 X 1000= 68 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING .0030 KW/SF X 606 SF X 1.25=		2.3
13 RECEPTS AT 180VA/1000=		2.4
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 15.2 KW
TOTAL/240 X 1000= 64 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

SERIAL NO 5107A/B

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'A'	KVA
GENERAL LIGHTING .0030 KW/SF X 187 SF X 1.25=		1.0
14 RECEPTS AT 180VA/1000=		2.6
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 14.1 KW
TOTAL/240 X 1000= 59 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60 A (2P) HACR	6-2 #10 GRND.
4, 5	RECEPTACLES/ POWERED J-BOX	20 A	12-2 EMT
2	LIGHTING	20 A	12-2 EMT

ELECTRICAL PANEL SIZING:

DESCRIPTION	PANEL 'B'	KVA
GENERAL LIGHTING .0030 KW/SF X 1399 SF X 1.25=		5.3
15 RECEPTS AT 180VA/1000=		2.9
WATER HEATER 6.5 KW =		–
– FANS AT .3 KW X 1.25=		–
HVAC		10.5

TOTAL 18.7 KW
TOTAL/240 X 1000= 78 AMPS
INSTALL 125 AMP PANEL
120/240 V 1Ø

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL
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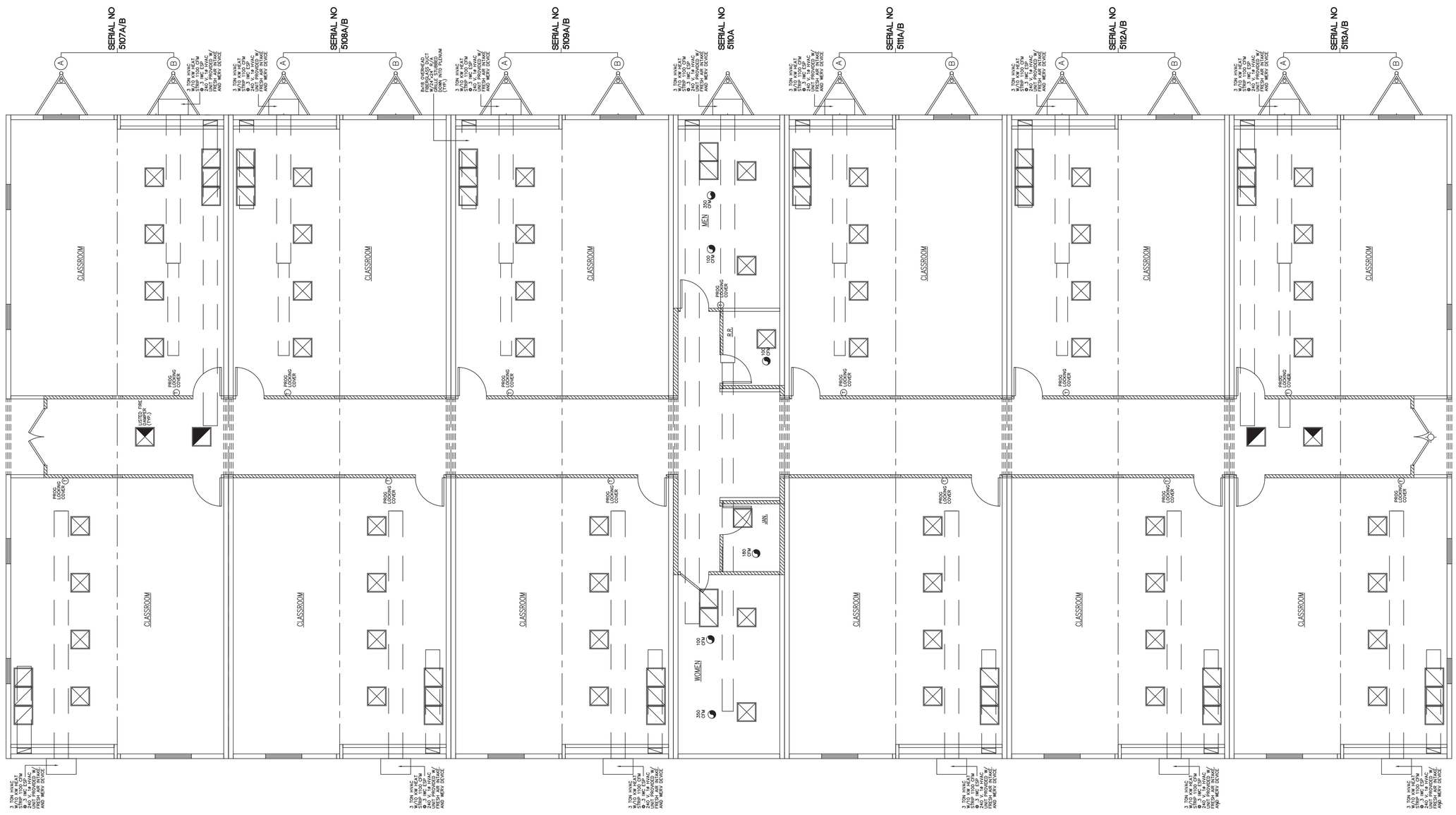

LEGEND

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

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

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STATE OF LOUISIANA JAMES E. BRADLEY License No. 13772 PROFESSIONAL ENGINEER
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.3573 JAMES E. BRADLEY
LICENSED PROFESSIONAL ENGINEER James E. Bradley 9480 OKLAHOMA

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FIRST STRING SPACE INC.
OUR STRENGTH IS TEAMWORK

FIRST STRING SPACE

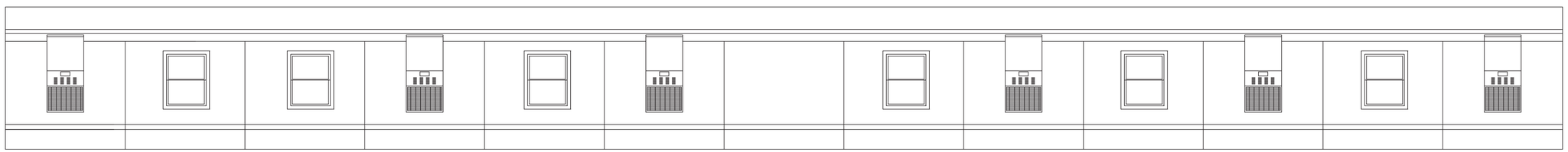
892 RAILROAD AVE. EAST
PEARSON, GEORGIA 31642 (912) 422-6455

DATE: 9-29-16	REVISIONS:
SCALE :3/16"=1'-0"	
CODES: SEE NOTES	
STATES: AR, LA, MS, TX, OK	BY: J.B.
REFERENCE: 5107-13	

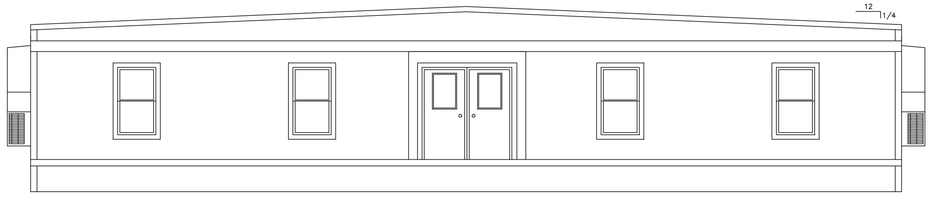
FSS5107-13 A-L
156 x 68 EDUCATIONAL

MECHANICAL | DESTINATION: DONNA, TX.

SHEET 4 OF 6



LEFT ELEVATION



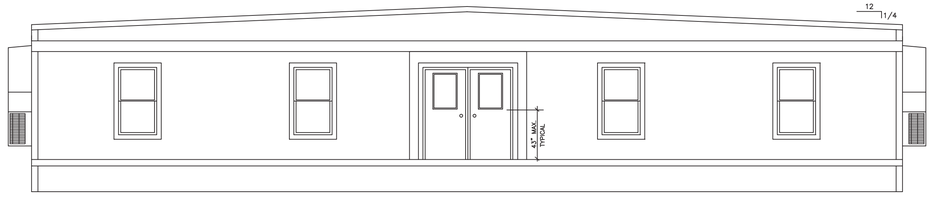
REAR ELEVATION

ELEVATION NOTES: TYPICAL

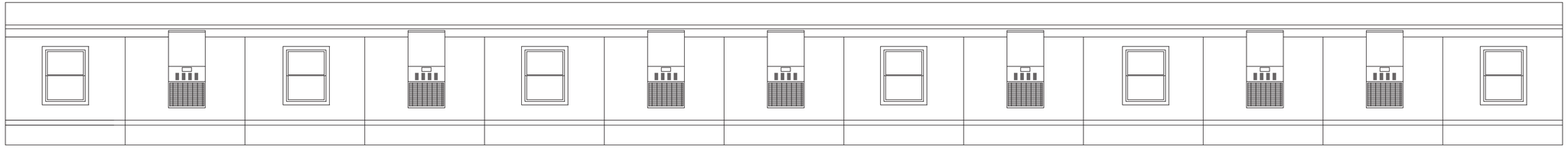
SEE–CROSS SECTION FOR METHOD OF ROOF VENTILATION

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.



FRONT ELEVATION



RIGHT ELEVATION

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL
This document is approved pursuant to the Industrialized Housing and Buildings Act.
DRA No. 21 IBC ✓IRC
Date: 10 10 2016
DRA Signature:

EMC APPROVED
10 10 2016

Reg. P.E. Firm Name:
James E. Bradley
Firm Reg. # F-1285

VALID
October 10, 2016

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ELEVATIONS | DESTINATION: DONNA. TX.

SHEET 5 OF 6

EXTERIOR FINISH MATERIAL:

ROOF – MULE–HIDE 45 MIL (WHITE) EPDM FULLY ADHERED IN ACCORDANCE WITH ESR–1776 OVER 7/16" MULE–HIDE FR DECK PANEL 'C' INSTALLED PER MANUFACTURERS SPECIFICATIONS.

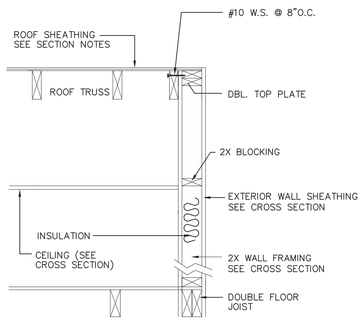
WALL – 7/16" SMART PANEL SIDING OVER APPROVED MOISTURE BARRIER. (DUPONT TYVEK ESR 2375) INSTALLED PER MANUFACTURERS SPECIFICATIONS

MICROLAM BEAM CONSTRUCTION

1 LAYER(S) 1 3/4" x 24" MICROLAM, EACH MODULE.

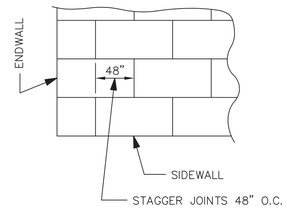
NOTES:

1. MICROLAM F_B= 2750 PSI
2. MICROLAM MUST BE CONTINUOUS OVER CLEARSPAN(S).
3. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
4. FASTEN ROOF SHEATHING INTO TOP EDGE OF MICROLAM TO PROVIDE CONTINUOUS LATERAL SUPPORT OF BEAM.
5. INSTALL (2 X 4) X 20" SPF# 3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS WHEN SPECIFIED ON FLOOR PLAN; FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM WITH 100% GLUE COVERAGE AND 6–16 GA. STAPLES WITH 3/4" MINIMUM PENETRATION INTO MICROLAM BEAM.
6. WHEN MORE THAN ONE LAYER OF MICROLAM IS INSTALLED ON EITHER SIDE OF THE MATING LINE, LAYERS ON THAT SIDE OF THE MATING LINE MUST BE FASTENED TOGETHER WITH 16 GA. STAPLES X 7/16" MINIMUM CROWN (INSTALLED PARALLEL TO BEAM SPAN) X 3/4" MINIMUM PENETRATION INTO CONNECTING LAYER STAPLES SHALL BE PLACED AT 6" O.C. MAXIMUM VERTICALLY AND HORIZONTALLY WITH FIRST AND LAST ROW OF STAPLES LOCATED 1" FROM TOP AND BOTTOM EDGE OF BEAM RESPECTIVELY.



BALLOON END WALL DETAIL

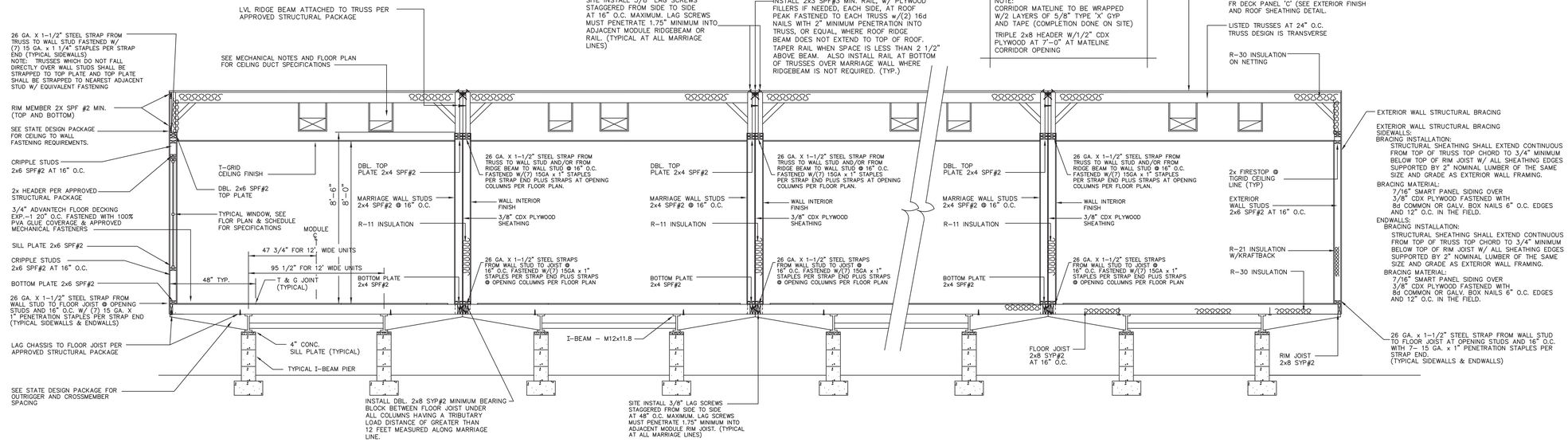
NTS



MULEHIDE:
FR DECK PANEL 'C' TO BE FASTENED TO TRUSSES W/ 8D SINKER NAILS @ 6" O.C. ON EDGES & 6" O.C. FIELD IN ZONE 3 (6'–6"x6'–6" AREA @ ROOF CORNERS) @ 6" O.C. ON EDGES 9" O.C. FIELD IN ZONE 2 (6'–6" ALONG THE ROOF EDGES) AND 6" O.C. ON EDGES & 12" O.C. FIELD IN ZONE 1 (ROOF INTERNAL FIELD)

ROOF SHEATHING DETAIL

APPROVED TRUSS DESIGN:
TRUSS MANUFACTURER: UNIVERSAL
TRUSS DRAWING. # F138468 (TX)
TRUSS DRAWING. # F138467 (AR, LA, MS, OK)
TRUSS DRAWING. # _____
OR ATTACHED DRAWINGS



GENERAL CROSS–SECTION NOTES:

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

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DRA Signature:

EMC APPROVED 10 10 2016

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

CORRIDOR RESTROOMS – FRP OVER GYP. BOARD INSTALLED PER MANUFACTURERS SPECIFICATIONS

FLOOR – AS NOTED ON PLAN

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

Reg. P.E. Firm Name:
James E. Bradley
Firm Reg. # F-1285
VALID.
October 10, 2016
P.E.

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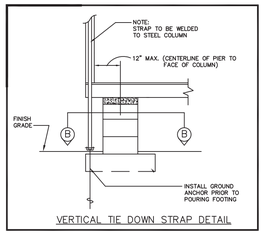
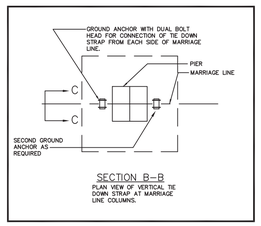
FSS5107–13 A–L 156 x 68 EDUCATIONAL	SHEET 4 OF 6
MECHANICAL	DESTINATION: DONNA, TX.

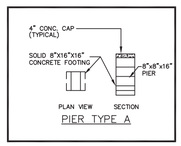


VERTICAL TIE DOWN STRAP DETAIL

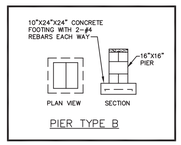


SECTION B–B

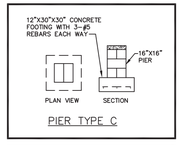
PLAN VIEW OF VERTICAL TIE DOWN STRAP AT MARRIAGE LINE COLUMNS.



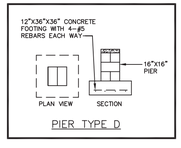
PIER TYPE A



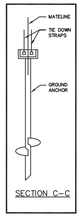
PIER TYPE B



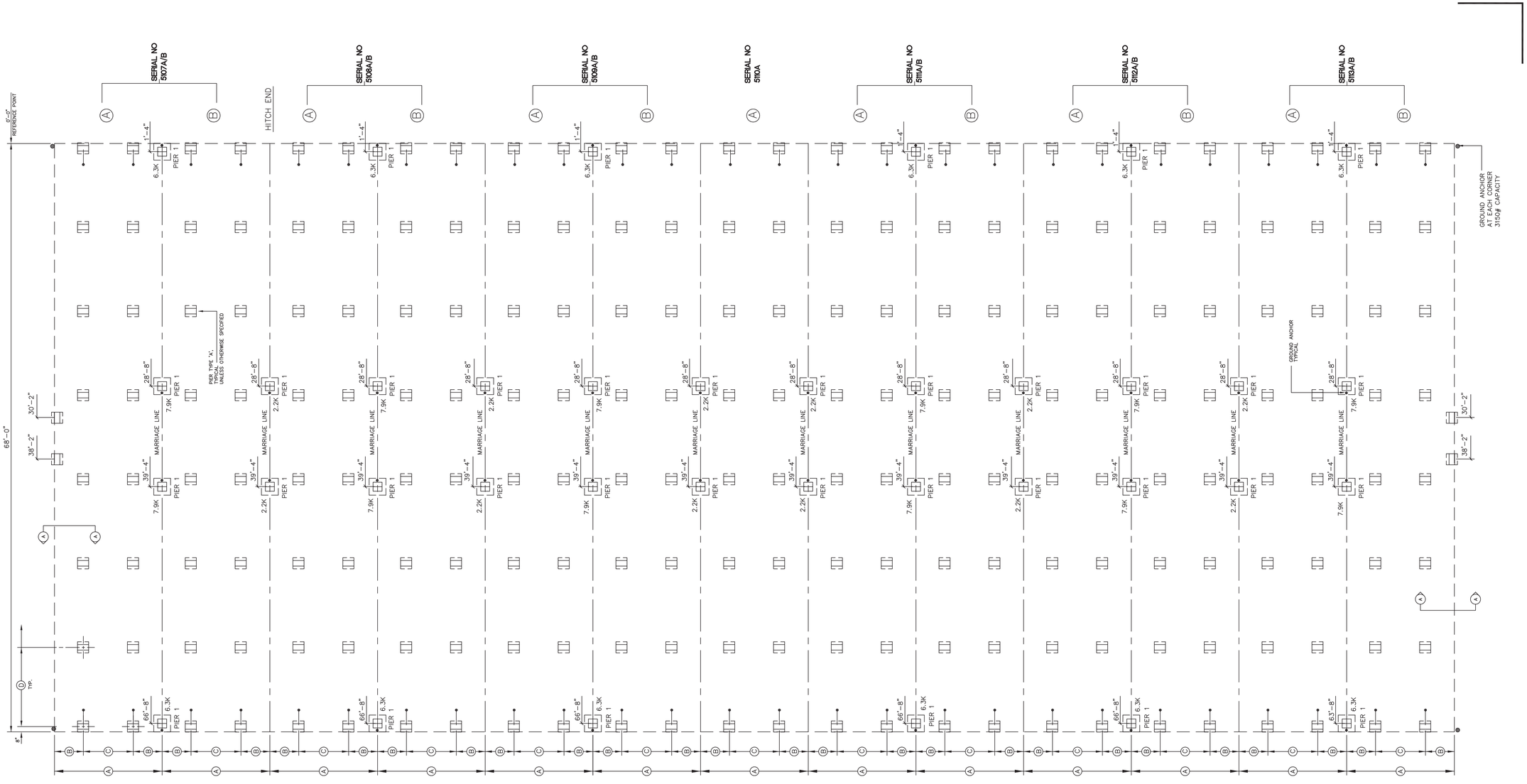
PIER TYPE C



PIER TYPE D



SECTION C–C



MARRIAGE WALL PIER REQUIREMENTS

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

FOUNDATION DIMENSIONS

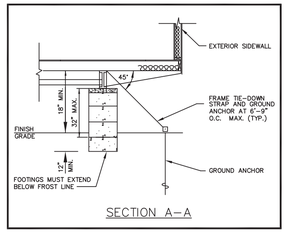
A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'–9"	22 3/4"	95 1/2"

D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY	KIPP LOADS
4'–2"	1500 PSF	2.3
5'–8"	2000 PSF	3.1
8'–9"	3000 PSF	4.8

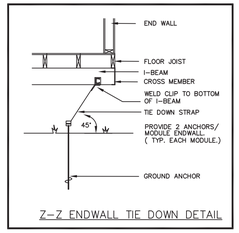
NOTE:
THE NUMBER OF PIERS SHOWN ON THIS FOUNDATION PLAN IS NO INDICATION OF THE AMOUNT OF PIERS REQUIRED AND NEEDED FOR THIS BUILDING. SEE MAXIMUM PIER SPACING CHARTS ABOVE FOR THE CORRECT NUMBER OF PIERS REQUIRED FOR EACH SOIL BEARING CAPACITY.

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 BL GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953–91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.
3. EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELIXES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
4. THE FIRST TIE–DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
5. ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.
6. MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
7. ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
8. SEE SHEET 1 OF 8 FOR BUILDING DESIGN LOADS.
9. I–BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I–BEAM CENTERLINE.
10. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON–EXPANSIVE SOILS ONLY.
11. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY – OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
12. THE FOUNDATION DIMENSIONS SHOWN ON THE ABOVE LAYOUT ARE NOMINAL DIMENSIONS OF THE FACTORY BUILT MODULARS AND DO NOT ACCOUNT FOR GAPS BETWEEN MODULES THAT MAY OCCUR DURING INSTALLATION.. THE FOUNDATION DESIGNER, FOUNDATION CONTRACTOR AND MODULAR BUILDING INSTALLER MUST CONSULT TO DETERMINE IF ADJUSTMENTS TO PIER LOCATIONS ARE NEEDED TO ACCOUNT FOR TOLERANCES NEEDED DURING INSTALLATION OF THE BUILDING MODULES
13. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.



SECTION A–A



Z–Z ENDWALL TIE DOWN DETAIL

NOTE:
A SITE SPECIFIC FOUNDATION SHALL BE DESIGNED BY A LICENSED ENGINEER FOR THE LOCATION THAT THE BUILDING WILL BE INSTALLED. THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE. MINIMUM REQUIRED SUPPORT LOCATIONS & MINIMUM GRAVITY LOADS AT THOSE SUPPORT LOCATIONS ARE SPECIFICED ON THIS REFERENCED PLAN. THE ENGINEER OF THE MODULAR BUILDING PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN AND CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTUR'S STRUCTURAL COMPONENTS AND SYSTEM RELATED THERETO.

TEXAS INDUSTRIALIZED BUILDING CODE COUNCIL
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DRA No. 21 **IBC** ✓ **IRC**
Date: 10 10 2016
DRA Signature:

EMC **APPROVED** 10 10 2016

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

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Firm Reg. # F-1285

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