

BUILDING INFORMATION

BUILDING SIZE: (4)11'-9" X 68'-0"
 SQUARE FOOTAGE: 3209
 BUILDING SETBACK: Greater than 10' to common line or property line
 OCCUPANCY/USE GROUP: E-Educational
 OCCUPANT LOAD: (124)
 TYPE OF CONSTRUCTION: V-B Combustible Unprotected
 BUILDING LOCATION: Baltimore City, Maryland
 FLOOD PLAIN: Building not to be placed in "Flood Hazard Area's"

DESIGN LOADS

FLOOR (LIVE): 50 p.s.f.. FLOOR (DEAD): 10 p.s.f.
 CORRIDOR/FILE AREA: 100 p.s.f.
 ROOF (LIVE): 30 p.s.f.
 ROOF (FLAT ROOF SNOW Pf): 35 p.s.f.
 ROOF (GROUND SNOW Pg): 40 p.s.f.
 ROOF (DEAD): 10 p.s.f.
 MAX. WIND LOAD: 120 m.p.h. @ exposure 'C', I=1.15
 OCCUPANCY CATAGORY III
 SEISMIC ZONE: SDS = .49 (SEISMIC DESIGN CATAGORY 'C')
 SD1 = .19 SITE CLASS = D

MARYLAND SNOW NOTE:
 THIS BUILDING IS TO NOT BE LOCATED IN THE FOLLOWING
 COUNTIES, ALLEGHENY & GARRETT DUE TO THE REQUIRED
 40LB FLAT-ROOF DESIGN SNOW LOAD (PLEASE ENSURE NOTE
 IS ON DATA PLATE)

THIS CONSTRUCTION DESIGN
 CERTIFICATION IS BASED ON THE
 MANUFACTURED DATE OF AUGUST 2010

BUILDING SPECIFICATIONS:

FRAME/FLOOR:
 FRAME: (4) 11'-9" X 68'-0"
 STEEL: M12x10.8 MAIN BEAM W/M10x8 I-BEAM CROSSMEMBERS @ 4'-8" O.C.
 AXLES: (5) 6,000LB AXLES OVERSLUNG
 TIRES: 8:00 X 14.5, 14 PLY RATED
 HITCH: BOLT ON REMOVABLE BALL HITCH
 BARRIER: GW POLY WOVEN UNDERSIDING
 JOISTS: 2X6 SPF#2 LONGITUDINAL @ 16" OC SPACING
 INSULATION: R-21 UN-FACED F/G (16" WIDE)
 DECKING: (1) LAYER 3/4" PREMIUM OSB, 24" O.C SPAN, HELD BACK 11" AT MATE
 LINE FOR ON SITE SEAMING
 FINISH: 1/8" VINYL TILE @51839 FORTRESS WHITE" CLASS B OR BETTER AND
 FLAME SPREAD OF 75 OR LESS

EXTERIOR WALLS:
 STUDS: 2X4 #2 SPF OR BETTER @ 16"OC SPACING, 8'-0" HIGH
 2X4 #2 SPF OR BETTER @ 12" O.C. SPACING, 9'-9" HIGH (CORRIDOR)
 PLATES: SINGLE TOP PLATE & SINGLE BOTTOM PLATE
 INSULATION: R-15 KRAFT-FACED F/G BATTS
 FINISH: 1/2" VINYL COVERED GYPSUM "LOOMA BEIGE", INT FINISH TO BE CLASS
 "B" OR BETTER, MINIMUM FLAME SPREAD - 75 OR LESS

INTERIOR WALLS:
 STUDS: 2X4 & 2X3 #2 SPF OR BETTER @ 16"OC SPACING, 8'-0" HIGH
 PLATES: SINGLE TOP PLATE & SINGLE BOTTOM PLATE
 INSULATION: R-13 UN-FACED F/G BATTS
 FINISH: 1/2" VINYL COVERED GYPSUM "LOOMA BEIGE", CORRIDORS TO HAVE 5/8"
 TYPE 'X' GYPSUM UNDER VINYL WALL FINISH FOR 1 HOUR FIRE RATING,
 INT FINISH TO BE CLASS "B" OR BETTER, MINIMUM FLAME SPREAD -75
 OR LESS

INTERIOR TRIM:
 COVE BASE: 4" VINYL COVE BASE, EXCEPT 6" VINYL COVE BASE IN BATHROOM
 TARKETT DEEP BROWN #76
 CORNERS: VINYL COVERED WOODGRAIN TRI-MOLD BATTENS
 CEILING: VINYL COVERED WOODGRAIN BATTENS W/"WHITE" ACOUSTIC SUSPENDED
 CEILING ANGLE IN CORRIDOR
 WINDOWS: "WHITE" PRE-FINISHED WOOD JAMB & CASING
 INT DOORS: ENAMEL FINISHED HOLLOW METAL TIMELY FRAME

EXTERIOR FINISH:
 SHEATHING: HOUSEWRAP
 SIDING: 7/16" SMART PANEL W/8"OC GROOVES "NAVAJO WHITE" (SHERWIN
 WILLIAMS #SW6126)
 TRIM: 1X4 PRIME TRIM @ TOP, BOTTOM, CORNERS & AROUND DOORS AND
 WINDOWS "LODGE BROWN"
 SKIRTING: (OPTIONAL) (45) 7/16" X 4' X 8' SMART PANEL W/8"OC GROOVES
 "NAVAJO WHITE" (SHERWIN WILLIAMS #SW6126)

ROOF:
 MATEBEAM: (1) LAYER 1-1/2" X 20", 2.0 LVL
 RAFTERS: ROOF TRUSSES @ 16"OC SPACING
 RAFTERS: 2X8 #2 SPF OR BETTER ROOF RAFTERS @ 16"OC SPACING (CORRIDOR)
 SHEATHING: 7/16" OSB W/ 1/2" GYPSUM SHEATHING
 CEILING: 1/2" SEASPRAY FINISHED GYPSUM, INT FINISH TO BE CLASS "A" OR
 BETTER, MINIMUM FLAME SPREAD - LESS THEN 25
 CEILING: 2X4 ACOUSTIC SUSPENDED CEILING IN CORRIDOR, INT FINISH TO BE
 CLASS "A" OR BETTER, MINIMUM FLAME SPREAD - LESS THEN 25
 INSULATION: R-46 KRAFT FACED F/G

BUILDING SPECIFICATIONS (CONT'D):

ROOFING: .045 EPDM RUBBER "BLACK"
MANSARD: NONE
EXHAUST: (2) THERMOSTATICALLY CONTROLLED POWER VENTS &
 (2) STATIC GRILLES PER BOX
GUTTER: ALUMINUM J-RAIL ALONG LENGTH BOTH SIDES

WINDOWS:
 SIZE/QNTY: (8) 3/0 X 4/0
 TYPE: 'WHITE' VINYL DOUBLE HUNG WITH F/G INSECT SCREEN
 GLAZING: CLEAR DOUBLE INSULATED LOW 'E' GLASS W/ARGON
 BLINDS: 1" 'WHITE' HORIZONTAL VINYL MINI

EXTERIOR DOORS:
 SIZE/QTY: (1) 6/0 X 6/8 (1) 3/0 X 6/8
 TYPE: 18GA COMMERCIAL STEEL EXTERIOR DOOR W/16GA STEEL FRAME,
 EXTERIOR MOUNTED DOUBLE DOOR GASKET AND REMOVABLE CENTER
 MULLION & 5" X 20" VIEW CLEAR VISION PANEL, UP 43" TO BOTTOM
HARDWARE: SEE DOOR SCHEDULE, GRADE 2 HARDWARE

INTERIOR DOORS:
 INT. DOORS: (4) 3/0 X 6/8 SOLID CORE PRE-FINISHED WOODGRAIN W/TIMELY
 STEEL FRAME "WESTERN WHITE" (20 MINUTE RATED)
 (4) 3/0 X 6/8 SOLID CORE PRE-FINISHED WOODGRAIN W/TIMELY
 STEEL FRAME "WESTERN WHITE"
HARDWARE: SEE DOOR SCHEDULE, GRADE 2 HARDWARE

ELECTRICAL:
 SERVICE: 120/240V SINGLE PHASE, 3 WIRE
 PANELS: (4 100A MAIN BREAKER CUTLER HAMMER BR1020B100PK, (2) 150A
 AIN BREAKER CUTLER HAMMER BR1630B150PK W/ENT SERVICE
 ENTRANCE

RACEWAY: ROMEX CABLE & PLASTIC BOXES EXCEPT MC CABLE & METAL BOXES IN
 CORRIDOR (PER NEC)
LIGHTS: 16"X48" SURFACE MOUNTED FOUR TUBE LIGHTS W/T-8 LAMPS &
 WRAP AROUND DIFFUSERS
 FOUR-TUBE GRID MOUNTED FLUORESCENT FIXTURES W/T-8
 LAMPS IN CORRIDOR
 (QUANTITY IS DETERMINED BY 1.2 WATTS/SQ. FT)

EXT LIGHTS: (3) 13W FLUORESCENT EXTERIOR LIGHT (825 LUMENS) W/BATTERY
 BACKUP EMERGENCY FEATURE @ EVERY EXTERIOR DOOR
 (PHOTO-CELL CONTROLLED)

RECEPTS: 120V/15 AMP DUPLEX "WHITE" PER SHEET 'E1'
 120V/15 AMP DUPLEX GFI IN BATHROOM "WHITE"
 120V/15 AMP GFI BETWEEN HVAC UNITS "WHITE" W/IN USE WATERPROOF
 OVER
 (1) 120V/15 AMP UNDER FLOOR HEAT TAPE RECEPTACLE

SWITCHES: 120V/15 AMP WHITE TOGGLE SWITCH IN CORRIDORS, SEE SHEET 'E1'
 120V/15A CEILING MOUNT OCCUPANCY SENSORS IN CLASSROOMS WITH
 MANUAL OVERRIDE ON WALL

EXIT/EMER: WALL/CEILING MOUNTED EXIT/EMERGENCY LIGHTS W/BATTERY BACKUP
 WALL/CEILING MOUNTED EMERGENCY LIGHTS W/BATTERY BACKUP

VOICE/DATA: LOCATIONS W/SINGLE GANG BOXES AND 3/4" FLEXIBLE CONDUIT TO
 ABOVE CORRIDOR CEILING FOR EQUIPMENT TO BE INSTALLED ON SITE
 BY OTHERS

FIRE ALARM: LOCATIONS W/SINGLE GANG METAL BOXES AND 3/4" EMT CONDUIT TO
 ABOVE CORRIDOR CEILING FOR EQUIPMENT TO BE INSTALLED ON SITE
 BY OTHERS (NO COVER PLATES SUPPLIED)

SMOKE DET: 120V/15A INTERCONNECTED CEILING SMOKE DETECTORS

BUILDING SPECIFICATIONS (CONT'D):

MECHANICAL:
 EQUIPMENT: (4) 42,000 BTU (3.5 TON) WALL MOUNTED CENTRAL HVAC UNIT
 W/10KW ELECTRIC HEAT STRIPS, COMMERCIAL ROOM VENTILATOR
 (UNITS PROVIDE A TOTAL OF 11,900 CFM OF FRESH AIR, TOTAL REQUIRED
 BY THE 2009 ENERGY CODE IS 7440 CFM)

SUPPLY: F/G IN CEILING W/12" X 12" ADJUSTABLE DIFFUSERS, 24" X 24" IN
 CORRIDORS (FIRE DAMPERS W/FUSIBLE LINKS IN CORRIDORS)
RETURN: F/G IN CEILING W/14" X 14" GRILLES DUCTED BACK TO PLENUM WALL,
 24" X 24" GRILLES IN CORRIDORS (FIRE DAMPERS W/FUSIBLE LINKS IN
 CORRIDORS)
THERM: (4) 7-DAY WALL MOUNTED PROGRAMMABLE HEAT/COOL

FURNISHINGS:
SHELVING (4) 48" X 12" DEEP LAMINATE SHELVES W/COAT RODS IN CLASSROOM
 CLOSETS (UP 66" A.F.F) (SCHOOL SYSTEM TO ADJUST HEIGHT FOR ADA
 AS NEEDED)
 (8)4'-9" LONG WHITE PAINTED COAT RACK W/15 CHROME COAT
 HOOKS ON EACH

COMM
BOARDS: (8) 144" X 48" ALUMINUM FRAMED "WHITE" ENAMELED STEEL DRY
 ERASE BOARD W/MAP RAIL, FLAG HOLDER & MARKER TRAY
 (6) 48" X 48" ALUMINUM FRAMED TACK BOARD

FIRE EXT: REQUIRED FIRE EXTINGUISHER TO BE INSTALLED ON SITE BY MODULAR
 GENIUS AND BE INSPECTED BY THE LOCAL AUTHORITY HAVING
 JURISDICTION

SIGNS: HANDICAPPED TACTILE SIGNS INSTALLED ON SITE AND ARE SUBJECT TO
 INSPECTION AND APPROVAL BY AUTHORITY HAVING JURISDICTION

ACCESS: CRAWL SPACE ACCESS TO BE A MINIMUM OF 18" X 24" PROVIDED ON
 SITE AND IS SUBJECT TO INSPECTION AND APPROVAL BY AUTHORITY
 HAVING JURISDICTION

DESIGN CODES
MARYLAND
 2009 NFPA 101 LIFE SAFETY CODE W/MD AMENDMENTS
 2009 INTERNATIONAL BUILDING CODE W/MD AMENDMENTS
 2009 INTERNATIONAL PLUMBING CODE
 2009 INTERNATIONAL MECHANICAL CODE
 2009 INTERNATIONAL ENERGY CONSERVATION CODE
 2008 NATIONAL ELECTRICAL CODE
 2002 MARYLAND ACCESSIBILITY CODE (MARCH 18, 2002)
 Professional Certification. I certify that
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 duly licensed professional engineer
 under the laws of the State of MD
 Lic. #21530 Exp. Date: 3-16-17

VIRGINIA
 2006 INTERNATIONAL BUILDING CODE
 2006 INTERNATIONAL PLUMBING CODE
 2006 INTERNATIONAL MECHANICAL CODE
 2006 INTERNATIONAL ENERGY CONSERVATION CODE
 2003 ICC/ANSI A117.1 STANDARDS FOR ACCESSIBILITY
 2005 NATIONAL ELECTRICAL CODE



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REVISION:									
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**BALTIMORE INTERNATIONAL
 ACADEMY**



**MODULAR GENIUS
 SMART BUILDING**

LEGEND	
SHEET	DESCRIPTION
CV1	COVER SHEET
C1	SITE PLAN
C2	SITE ELECTRIC
C3	SITE ELECTRIC DETAILS
A1	FLOOR PLAN
A2	ELEVATIONS
E1	ELECTRICAL PLAN
E2	PANEL SCHEDULES & RISER & CALCULATIONS
M1	MECHANICAL PLAN
S1	SECTION PLAN
S2	FIRE DETAILS
S3	FIRE DETAILS
S4	BLOCKING DIAGRAM
S5	BLOCKING DETAILS
S6	STRAPPING DETAILS
LB1	UNIT LABELS

COVER PAGE	
DESIGNED:	4/15/16
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SERIAL #:	16-0005
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DOOR/WINDOW SPECIFICATIONS & ROUGH-IN SCHEDULE			
I.D.	DESCRIPTION	ROUGH-IN	QNTY
①	6/0 X 6/8 18GA COMMERCIAL STEEL DOOR W/16GA PAINTED STEEL FRAME, REMOVABLE CENTER MULLION, EXTERIOR MOUNTED DOUBLE DOOR GASKET, (2) 5" X 20" VISION PANEL, UP 43" TO BOTTOM, (6) 4.5"x4.5" NRP BALL BEARING HINGES (26D FINISH), (2) DOOR CLOSER TELL 600 SERIES #12641-PA-AL, (2) PANIC HARDWARE TELL #8300-US32D-CTLB81 KEYPED LEVER TRIM, THRESHOLD, DOOR SWEEP WITH DRIP, WEATHER STRIPPING VINYL/ALUMINUM & ALUMINUM DRIP CAP, GRADE 2 HARDWARE	74" X 81"	1
②	3/0 X 6/8 18GA COMMERCIAL STEEL DOOR W/16GA PAINTED STEEL FRAME, (1) 5" X 20" VISION PANEL, UP 43" TO BOTTOM, (3) 4.5"x4.5" NRP BALL BEARING HINGES (26D FINISH), (1) DOOR CLOSER TELL 600 SERIES #12641-PA-AL, (1) PANIC HARDWARE TELL #8300-US32D-CTLB81 KEYPED LEVER TRIM, THRESHOLD, DOOR SWEEP WITH DRIP, WEATHER STRIPPING VINYL/ALUMINUM & ALUMINUM DRIP CAP, GRADE 2 HARDWARE	38" X 81"	1
③	3/0 X 6/8 1-3/4" PREM-WOOD PRE-FINISHED SOLID CORE WOODGRAIN DOOR W/PRE-FINISHED "WESTERN WHITE" TIMELY STEEL FRAME, 5"x20" VISION PANEL, UP 43" TO BOTTOM, (3) 4.5" X 4.5" BALL BEARING HINGES (26D FINISH), CLASSROOM FUNCTION LEVER SET (26D FINISH), FLUSH MOUNTED DOOR CLOSER & FLOOR MOUNTED DOOR STOP (20 MINUTE RATED) GRADE 2 HARDWARE	37-1/2" X 81"	2
④	3/0 X 6/8 1-3/4" PREM-WOOD PRE-FINISHED SOLID CORE WOODGRAIN DOOR W/PRE-FINISHED "WESTERN WHITE" TIMELY STEEL FRAME, (3) 4.5" X 4.5" BALL BEARING HINGES (26D FINISH), STOREROOM FUNCTION LEVER SET (26D FINISH), & FLOOR MOUNTED DOOR STOP, GRADE 2 HARDWARE	37-1/2" X 81"	2
ⓐ	3/0 X 4/0 "WHITE" VINYL FRAMED DOUBLE HUNG VERTICAL SLIDER W/DOUBLE INSULATED GLASS LOW "E" & ARGON GAS, "WHITE" PRE-FINISHED WOOD RETURN AND CASING, F/G INSECT SCREENS & "WHITE" 1" VINYL MINI BLINDS (U=.31, SHGC=.32, VT=.56)	36 1/4" X 48 1/2" UP 80" A.F.F. TO TOP	8

- 2 (2) LSTA15 STRAPS W/(5) 10d NAILS EACH SIDE & (3) 2X3 SPF#2 COLUMNS, (2) 3/8" X 3" LAGS (SEE DETAIL SHEET S4) (SIM)
- 3 (3) LSTA15 STRAPS W/(5) 10d NAILS EACH SIDE & (5) 2X3 SPF#2 COLUMNS, (4) 3/8" X 3" LAGS (SEE DETAIL SHEET S4)

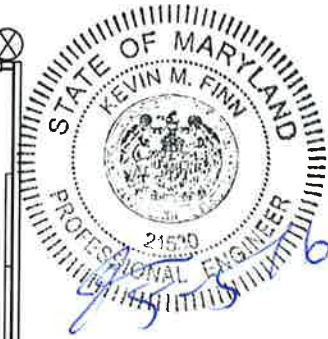
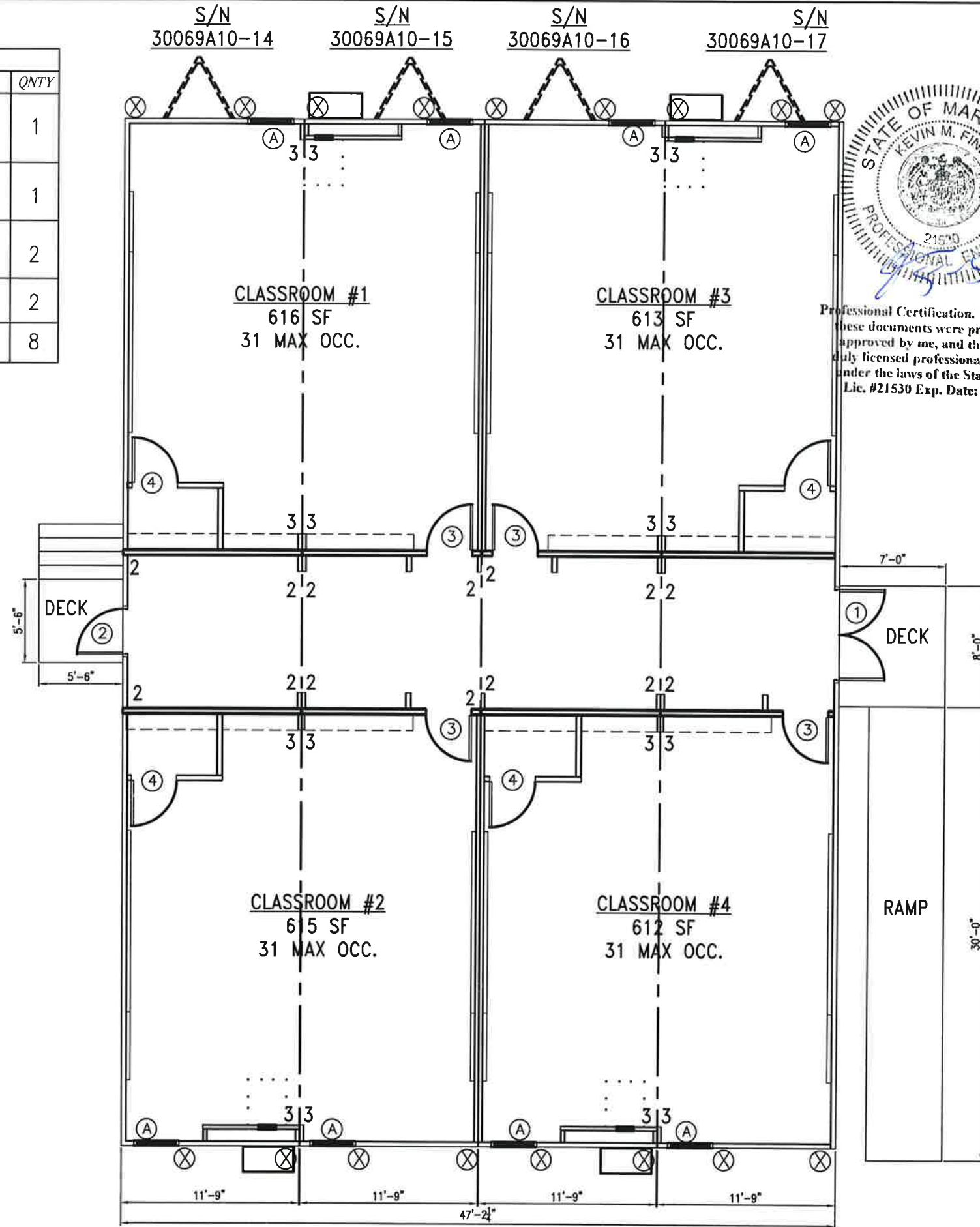
NOTE: WHEN 2 & 3 ARE NEXT TO EACH OTHER ONLY (4) LAGS ARE REQUIRED FOR BOTH OF THE COLUMNS

- ⊗ (1) 15" X 20 GA STRAP W/(5) 0.131" NAILS & (1) 3/8" X 3" LAG TO FRAME FROM SHEARWALL STRUT (STUD) TO FLOOR RIM
- ALL SIDEWALL/ENDWALL OPENINGS TO HAVE (2) 2X6 SPF#2 HEADERS.

WINDOWS TO HAVE (2) JAMBS & (1) JACK STUD
DOUBLE DOOR TO HAVE (4) JAMBS & (1) JACK STUD

BUILDING NOTES:

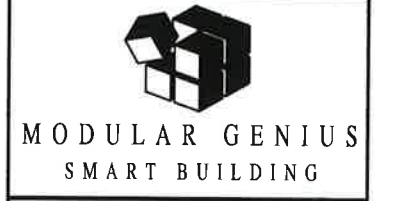
- ATTIC VENTILATION SHALL NOT BE LESS THAN 1/150th OF THE HORIZONTAL AREA TO BE VENTILATED, UNLESS A VAPOR BARRIER IS INSTALLED THEN THE RATE SHALL BE REDUCED TO 1/300th.
- THE BUILDING EXTERIOR AND ALL FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- BUILDER/DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS: STEPS, RAMPS, PARKING SIGNS, ETC. - BUILDING APPROACH (WALK OR RAMP) WITH A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT MORE THAN 1/20 FEET FOR SIDEWALKS AND A MAXIMUM OF 1/12 FOR RAMPS.
- LANDING SHALL BE PROVIDED OUTSIDE OF EACH EXIT DOOR, EACH EXIT DOOR - 5 FOOT MINIMUM WIDTH WITH 1/2" MAXIMUM CHANGE IN ELEVATION. LANDING TO EXTEND A MINIMUM OF 24" PAST STRIKE EDGE OF THE DOOR. LANDING AND RAMPS BY OTHERS AT SITE.
- ALL LOCKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
- CORROSION RESISTANT FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
- ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND IN PASSAGE DOORS, OR WITHIN 18" OF FLOOR TO BE "SAFETY GLAZED" AND SO MARKED.



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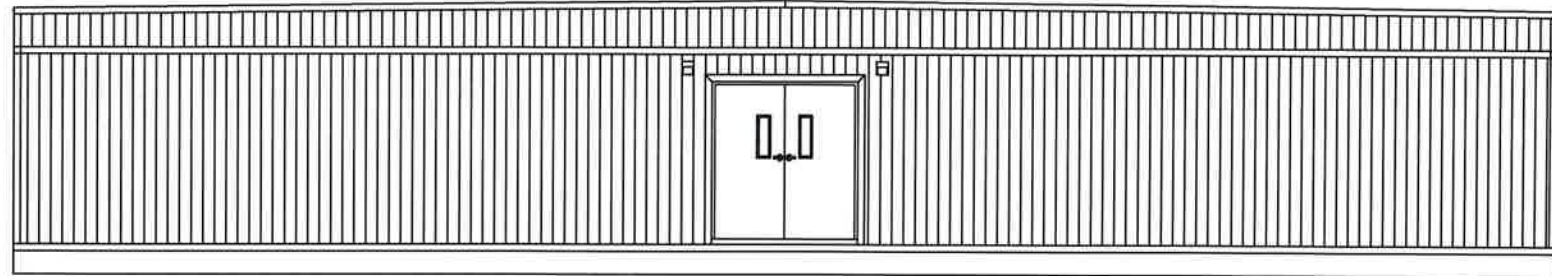
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BALTIMORE INTERNATIONAL ACADEMY
IMAGINE CHILD CARE CENTER



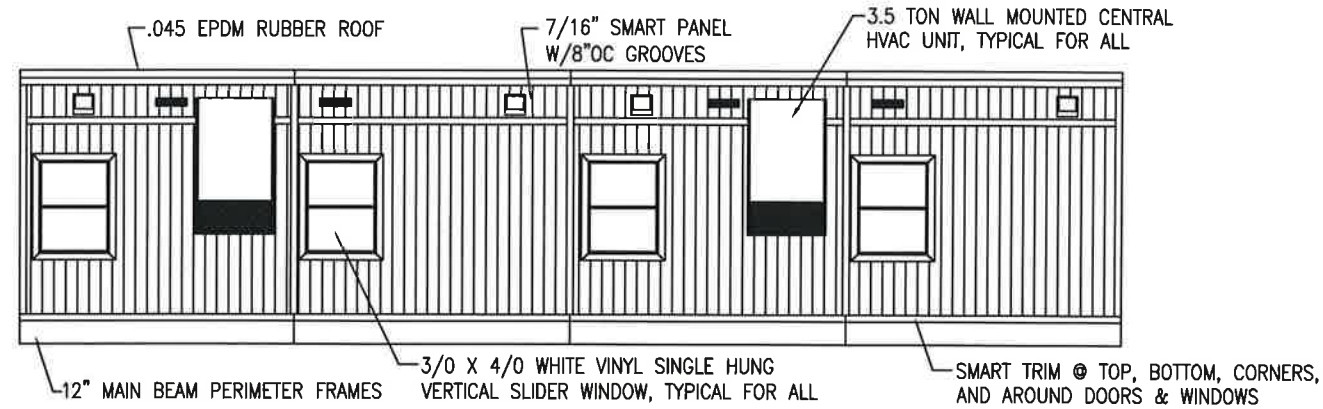
EXTERIOR ELEVATIONS

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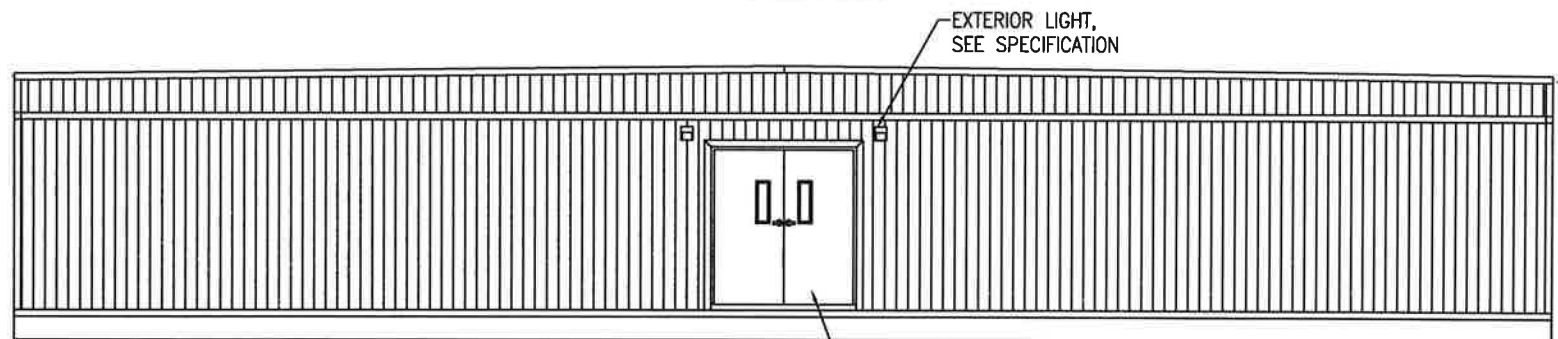


SIDE VIEW

PERIMETER FRAME WITH 12" MAIN BEAMS, TYPICAL FOR ALL



HITCH END

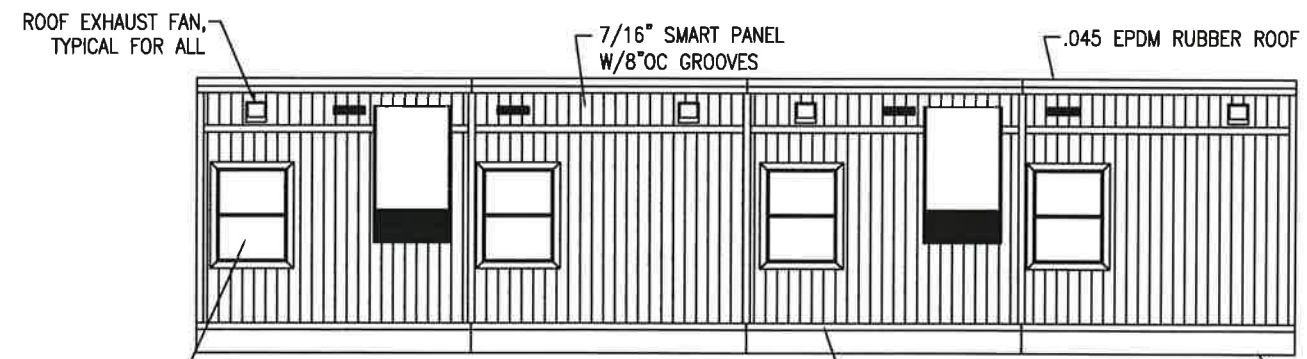


SIDE VIEW

ALUMINUM J-RAIL GUTTER ALONG ENDS



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FRONT VIEW

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MODULAR GENIUS SMART BUILDING

EXTERIOR ELEVATIONS

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ELECTRICAL:

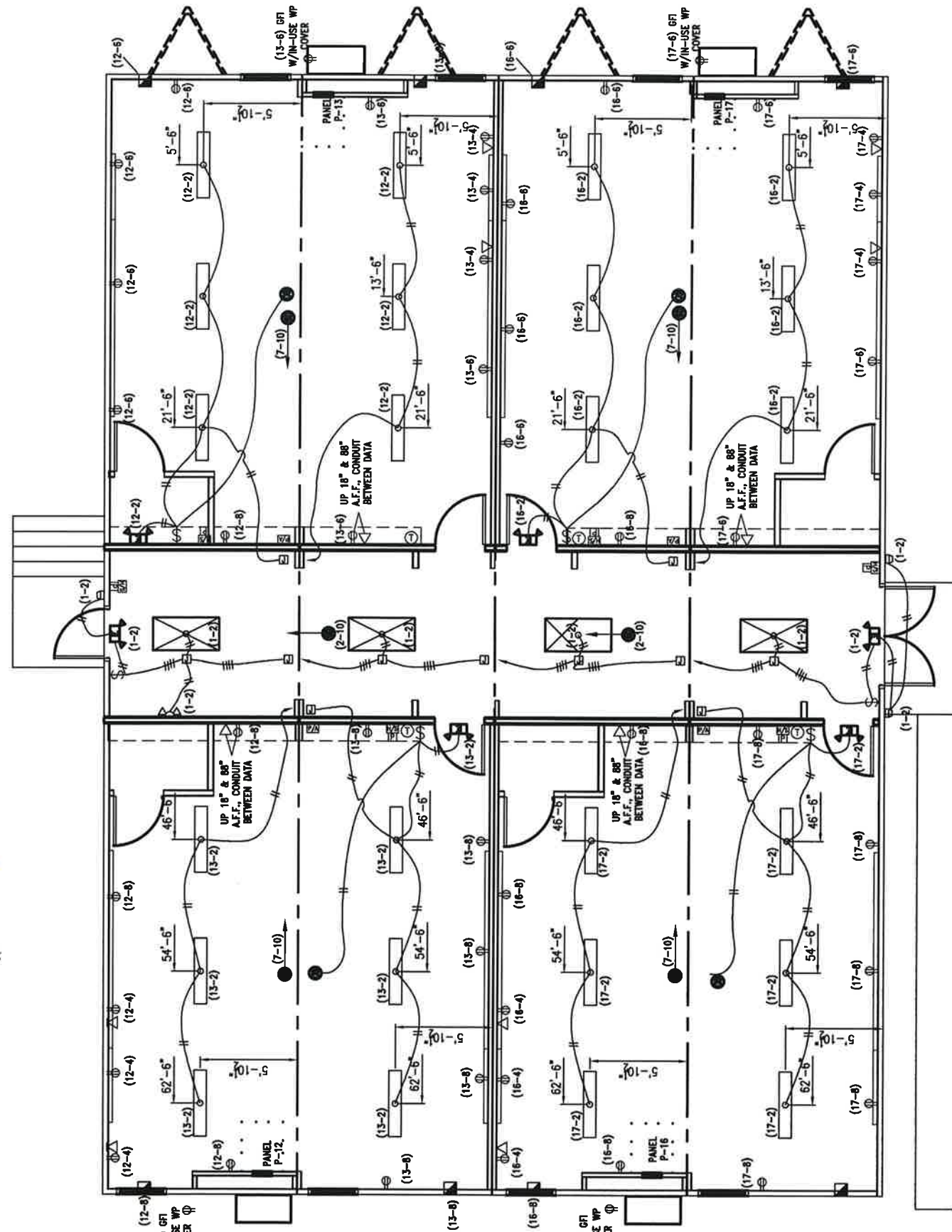
- ALL RECEPTACLES TO BE GROUNDED TYPE.
- ALL WIRING TO BE PER N.E.C., W/TYPE ROMEX OR MC WHERE EXPOSED ABOVE GRID CEILING (COPPER) W/GROUND CONDUCTOR.
- MAIN PANEL TO BE MARKED "SUITABLE FOR USE AS SERVICE EQUIPMENT", AND BE EQUIPPED WITH BREAKER/FUSE TYPE OVER CURRENT PROTECTION.
- PROPER THERMAL OVERLOAD PROTECTION TO BE PROVIDED FOR ALL MOTORS.
- DISCONNECTING MEANS WITHIN SIGHT REQUIRED FOR ALL MOTORS.
- WEATHERPROOF PROTECTION REQUIRED FOR ALL OUTDOOR LIGHTS, RECEPTACLES AND DISCONNECTS.
- PROPER WORKING CLEARANCES TO BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT.
- ALL FLUORESCENT FIXTURES REQUIRE THERMAL PROTECTION AND PROPER CLEARANCES FROM INSULATION, ALSO APPLICABLE FOR INCANDESCENT FIXTURES.
- COMBINATION EXHAUST FAN/LIGHT AND ALL RECESSED INCANDESCENT FIXTURES TO BE WITH THERMAL PROTECTION.
- EXIT LIGHTS (IF ELECTRIC) MUST BE FED FROM AN APPROVED EMERGENCY SERVICE CONNECTED AHEAD OF, BUT NOT WITHIN MAIN SERVICE DISCONNECTING MEANS ENCLOSURE, AND INSTALLED AS PER SERVICE REQUIREMENTS, OR BE BATTERY BACKUP TYPE UNITS.
- SERVICE CONDUCTORS LOCATED WITHIN THE PERIMETER OF THE BUILDING SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE
- EXTERIOR LIGHTS ARE TO BE PHOTO-CELL CONTROLLED AND BI-LEVEL SWITCHING OF INTERIOR LIGHTS IN ACCORDANCE WITH INTERNATIONAL ENERGY CONSERVATION OR STATE CODES.
- INTERIOR LOCATION OF ELECTRICAL PANEL REQUIRES A DISCONNECT TO BE INSTALLED AT THE POINT OF ENTRANCE NEAREST THE SERVICE CONDUCTORS.

ELECTRICAL LEGEND

- (4) 100A SINGLE PHASE BREAKER PANEL W/1-1/2" CONDUIT SERVICE ENTRANCE THRU FLOOR
- 16"x48" FOUR TUBE SURFACE MOUNTED FLUORESCENT LIGHT W/T-8 LAMPS & WRAP AROUND DIFFUSERS
- 2X4 FOUR-TUBE GRID MOUNTED FLUORESCENT LIGHT W/T-8 LAMPS & SINGLE BALLASTS #2GR8-432A-120V
- SINGLE POLE TOGGLE SWITCH UP 44" A.F.F. (U.O.N.)
- 13W FLUORESCENT LIGHT (825 LUMENS) W/BATTERY BACKUP EMERGENCY FEATURE, UP 84" A.F.F., PHOTO-CELL CONTROLLED, #30S-CP-HB-13PL-NPF-120-EM-LP
- COMBINATION DUAL HEAD EMERG./SINGLE FACED EXIT LIGHT W/BATTERY BACKUP, AP70RWHDH
- DUAL HEAD WALL MOUNTED EMERGENCY LIGHT W/BATTERY BACKUP
- 15A. DUPLEX RECEPTACLE, 110V. UP 18" A.F.F. (U.O.N.)
- 15A. HEAT TAPE RECEPTACLE, 110V.
- JUNCTION BOX PER PLAN
- DATA/COMMUNICATION ROUGH-IN W/SINGLE GANG BOX UP 18" A.F.F. & 3/4" PLASTIC CONDUIT TO ABOVE CORRIDOR (EQUIPMENT ON SITE BY OTHERS)
- 120V SMOKE DETECTOR ALL INTERCONNECTED ON SITE BY MGI ABOVE CORRIDOR CEILING
- PULL STATION & HOR/STROBE ROUGH-IN W/SINGLE GANG BOX UP 44" A.F.F. (1) SINGLE GANG BOX UP 84" A.F.F. & 3/4" EMT CONDUIT TO ABOVE CORRIDOR CEILING (EQUIPMENT ON SITE BY OTHERS)
- (16) CEILING MOUNTED OCCUPANCY SENSORS, WITH MANUAL OVERRIDE SWITCH ON WALL
- THERMOSTATICALLY CONTROLLED ROOF EXHAUST FAN

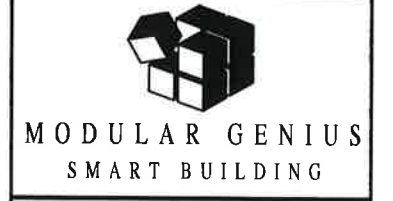


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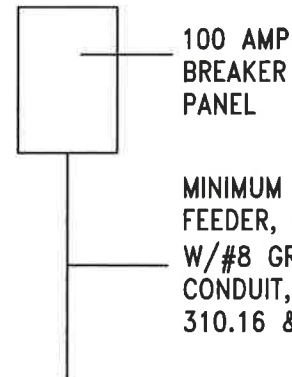
ELECTRICAL PLAN	
DESIGNED: 4/15/16	DRAWN BY: HAS
SERIAL #: 16-0005	SCALE: 1/8" = 1'-0"
PRINTED: 4/29/16 8:50AM	DRAWING #:
APPROVED BY:	E1

PANEL: PP-14				100A MAIN BREAKER SUB PANEL 120/240V., SINGLE PHASE, 3 WIRE							
LOCATION: EXTERIOR WALL				10,000 AC., BOT. FEED							
MOUNTING TYPE: RECESSED				1-1/2" SERVICE ENTRANCE, COPPER BUS, GROUND BAR							
CIRC. NO.	CIRC. BKR.	WIRE	POLE	CIRCUIT DESIGNATION	A	B	CIRCUIT DESIGNATION	CIRC. NO.	CIRC. BKR.	WIRE	POLE
1	60A	6/3	2	3.5 TON HVAC UNIT W/10KW ELEC. HEAT	47	6.5	LIGHTS	2	15A	14/2	1
3						4.5	RECEPTACLES	4	15A	14/2	1
5						6.5	RECEPTACLES, ROOF FAN	6	15A	14/2	1
7						6.5	RECEPTACLES, ROOF FAN	8	15A	14/2	1
9								10			
				62	60						

PANEL: PP-15				100A MAIN BREAKER SUB PANEL 120/240V., SINGLE PHASE, 3 WIRE							
LOCATION: EXTERIOR WALL				10,000 AC., BOT. FEED							
MOUNTING TYPE: RECESSED				1-1/2" SERVICE ENTRANCE, COPPER BUS, GROUND BAR							
CIRC. NO.	CIRC. BKR.	WIRE	POLE	CIRCUIT DESIGNATION	A	B	CIRCUIT DESIGNATION	CIRC. NO.	CIRC. BKR.	WIRE	POLE
1	60A	6/3	2	3.5 TON HVAC UNIT W/10KW ELEC. HEAT	47	6.5	LIGHTS	2	15A	14/2	1
3						4.5	RECEPTACLES	4	15A	14/2	1
5						6.5	RECEPTACLES, ROOF FAN	6	15A	14/2	1
7						6.5	RECEPTACLES, ROOF FAN	8	15A	14/2	1
9								10			
				62	60						

PANEL: PP-16				100A MAIN BREAKER SUB PANEL 120/240V., SINGLE PHASE, 3 WIRE							
LOCATION: EXTERIOR WALL				10,000 AC., BOT. FEED							
MOUNTING TYPE: RECESSED				1-1/2" SERVICE ENTRANCE, COPPER BUS, GROUND BAR							
CIRC. NO.	CIRC. BKR.	WIRE	POLE	CIRCUIT DESIGNATION	A	B	CIRCUIT DESIGNATION	CIRC. NO.	CIRC. BKR.	WIRE	POLE
1	60A	6/3	2	3.5 TON HVAC UNIT W/10KW ELEC. HEAT	47	6.5	LIGHTS	2	15A	14/2	1
3						4.5	RECEPTACLES	4	15A	14/2	1
5						6.5	RECEPTACLES, ROOF FAN	6	15A	14/2	1
7						6.5	RECEPTACLES, ROOF FAN	8	15A	14/2	1
9								10			
				62	60						

PANEL: PP-17				100A MAIN BREAKER SUB PANEL 120/240V., SINGLE PHASE, 3 WIRE							
LOCATION: EXTERIOR WALL				10,000 AC., BOT. FEED							
MOUNTING TYPE: RECESSED				1-1/2" SERVICE ENTRANCE, COPPER BUS, GROUND BAR							
CIRC. NO.	CIRC. BKR.	WIRE	POLE	CIRCUIT DESIGNATION	A	B	CIRCUIT DESIGNATION	CIRC. NO.	CIRC. BKR.	WIRE	POLE
1	60A	6/3	2	3.5 TON HVAC UNIT W/10KW ELEC. HEAT	47	6.5	LIGHTS	2	15A	14/2	1
3						4.5	RECEPTACLES	4	15A	14/2	1
5						6.5	RECEPTACLES, ROOF FAN	6	15A	14/2	1
7						6.5	RECEPTACLES, ROOF FAN	8	15A	14/2	1
9								10			
				62	60						



GROUNDING ELECTRODE SYSTEM TO BE PROVIDED PER NEC SECTIONS 250.50 & 250.52 ON SITE BY OTHERS

ONE LINE DIAGRAM

Electrical Load Calculations Panel #14					
	Item	QTY	Watts	%	Total
Non-Continuous loads	Receptacles	14	180	1	2520
	Smoke Detector	0	0.8	1	0
Sub Total					2520
Continuous loads	Interior Lights	6	128	1.25	960
	Interior Lights	0	64	1.25	0
	Fan	0	156	1.25	0
	Exit/Emergency	1	2.8	1.25	3.5
	Exterior Light	0	13	1.25	0
Sub Total					964
Other Continuous loads	Water Heater	0	1500	1.25	0
	Roof fan	2	120	1.25	300
	HVAC	1	11280	1.25	14100
Sub Total					14400
Calculated Lighting load		680	3	1	2040
Lighting Circuits required	2040	/	120	=	17.0
Note: Use Calculated lighting load because it exceeds 125 percent of the actual lighting load					
Panel Size	Non-Continuous Electrical Load				2520
	Continuous Lighting Load	2040	1		2040
	Other Continuous Loads				14400
	Total Load				18960
Panel Phase Amps	18960	/	240	=	79.0

Electrical Load Calculations Panel #15					
	Item	QTY	Watts	%	Total
Non-Continuous loads	Receptacles	14	180	1	2520
	Smoke Detector	0	0.8	1	0
Sub Total					2520
Continuous loads	Interior Lights	6	128	1.25	960
	Interior Lights	0	64	1.25	0
	Fan	0	156	1.25	0
	Exit/Emergency	1	2.8	1.25	3.5
	Exterior Light	0	13	1.25	0
Sub Total					964
Other Continuous loads	Water Heater	0	1500	1.25	0
	Roof fan	2	120	1.25	300
	HVAC	1	11280	1.25	14100
Sub Total					14400
Calculated Lighting load		680	3	1	2040
Lighting Circuits required	2040	/	120	=	17.0
Note: Use Calculated lighting load because it exceeds 125 percent of the actual lighting load					
Panel Size	Non-Continuous Electrical Load				2520
	Continuous Lighting Load	2040	1		2040
	Other Continuous Loads				14400
	Total Load				18960
Panel Phase Amps	18960	/	240	=	79.0

Electrical Load Calculations Panel #16					
	Item	QTY	Watts	%	Total
Non-Continuous loads	Receptacles	14	180	1	2520
	Smoke Detector	0	0.8	1	0
Sub Total					2520
Continuous loads	Interior Lights	6	128	1.25	960
	Interior Lights	0	64	1.25	0
	Fan	0	156	1.25	0
	Exit/Emergency	1	2.8	1.25	3.5
	Exterior Light	0	13	1.25	0
Sub Total					964
Other Continuous loads	Water Heater	0	1500	1.25	0
	Roof fan	2	120	1.25	300
	HVAC	1	11280	1.25	14100
Sub Total					14400
Calculated Lighting load		680	3	1	2040
Lighting Circuits required	2040	/	120	=	17.0
Note: Use Calculated lighting load because it exceeds 125 percent of the actual lighting load					
Panel Size	Non-Continuous Electrical Load				2520
	Continuous Lighting Load	2040	1		2040
	Other Continuous Loads				14400
	Total Load				18960
Panel Phase Amps	18960	/	240	=	79.0

Electrical Load Calculations Panel #17					
	Item	QTY	Watts	%	Total
Non-Continuous loads	Receptacles	14	180	1	2520
	Smoke Detector	0	0.8	1	0
Sub Total					2520
Continuous loads	Interior Lights	6	128	1.25	960
	Interior Lights	0	64	1.25	0
	Fan	0	153.6	1.25	0
	Exit/Emergency	1	5	1.25	6.25
	Exterior Light	0	13	1.25	0
Sub Total					966
Other Continuous loads	Water Heater	0	1500	1.25	0
	Roof fan	2	120	1.25	300
	HVAC	1	11280	1.25	14100
Sub Total					14400
Calculated Lighting load		680	3	1	2040
Lighting Circuits required	2040	/	120	=	17.0
Note: Use Calculated lighting load because it exceeds 125 percent of the actual lighting load					
Panel Size	Non-Continuous Electrical Load				2520
	Continuous Lighting Load	2040	1		2040
	Other Continuous Loads				14400
	Total Load				18960
Panel Phase Amps	18960	/	240	=	79.0

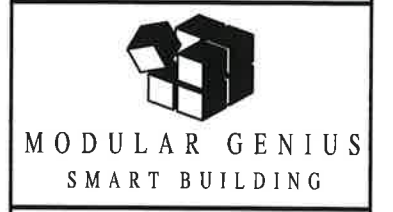


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REVISION:											
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



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PANEL SCHEDULES, RISERS & CALCS

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MECHANICAL LEGEND

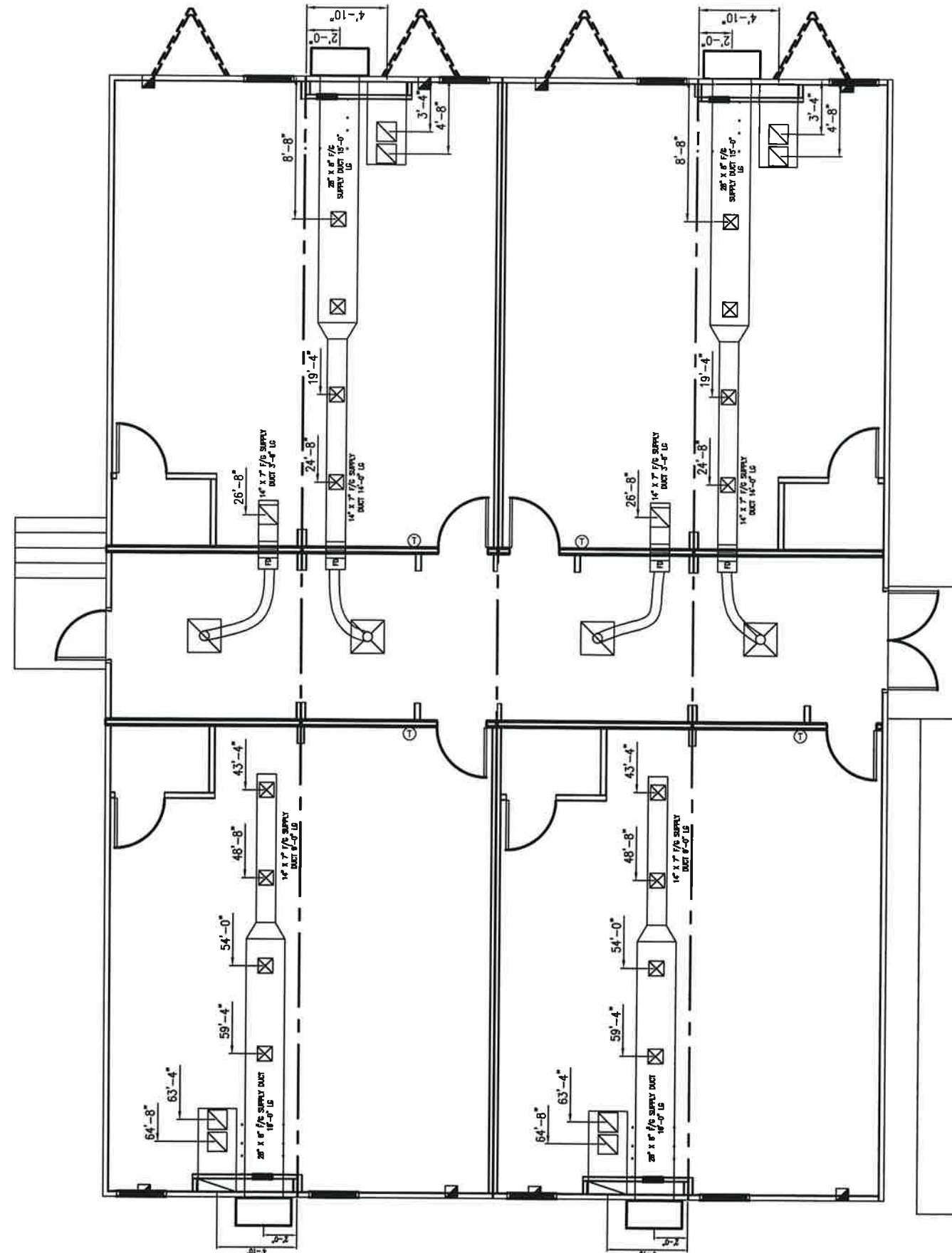
-  12" X 12" CEILING MOUNTED ADJUSTABLE SUPPLY DIFFUSER
-  14" X 14" CEILING MOUNTED RETURN GRILLE
-  24" X 24" GRID MOUNTED ADJUSTABLE SUPPLY DIFFUSER
-  24" X 24" GRID MOUNTED RETURN GRILLES
-  PROGRAMMABLE HEAT/COOL THERMOSTAT MOUNTED UP 48" A.F.F.
-  THERMOSTATICALLY CONTROLLED ROOF EXHAUST FAN

MECHANICAL:

1. EXHAUST FANS AND VENTING EQUIPMENT TO BE DUCTED TO EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
2. "MECHANICAL VENTILATION", USE 75% OF RECIRCULATED AIR VIA HVAC UNIT.
3. DUCT EXPOSED TO NON-CONDITIONED SPACES SHALL BE INSULATED TO PROVIDE A THERMAL RESISTANCE.
4. FLOOR AND WALL REGISTERS: THE LOWER EDGE SHALL NOT BE LESS THAN 1/2" FROM THE FLOOR IN TOILET ROOMS, LAUNDRY ROOMS OR UTILITY ROOMS.
5. METAL CHIMNEYS SHALL EXTEND AT LEAST 3 FT. ABOVE THE HIGHEST POINT WHERE THEY PASS THROUGH THE ROOM AND 2 FT. MINIMUM HIGHER THAN OTHER PORTIONS OF A BUILDING WITHIN 10 FT.
6. DUCTS SHALL BE CLASS I, IF NON-METALLIC, AND IF ALUMINUM OR GALVANIZED SHALL BE PER TABLE M-603.3 2006 IMC
7. RETURN AIR VIA GRILLES IN WALL, DOORS OR CEILING AS NOTED.



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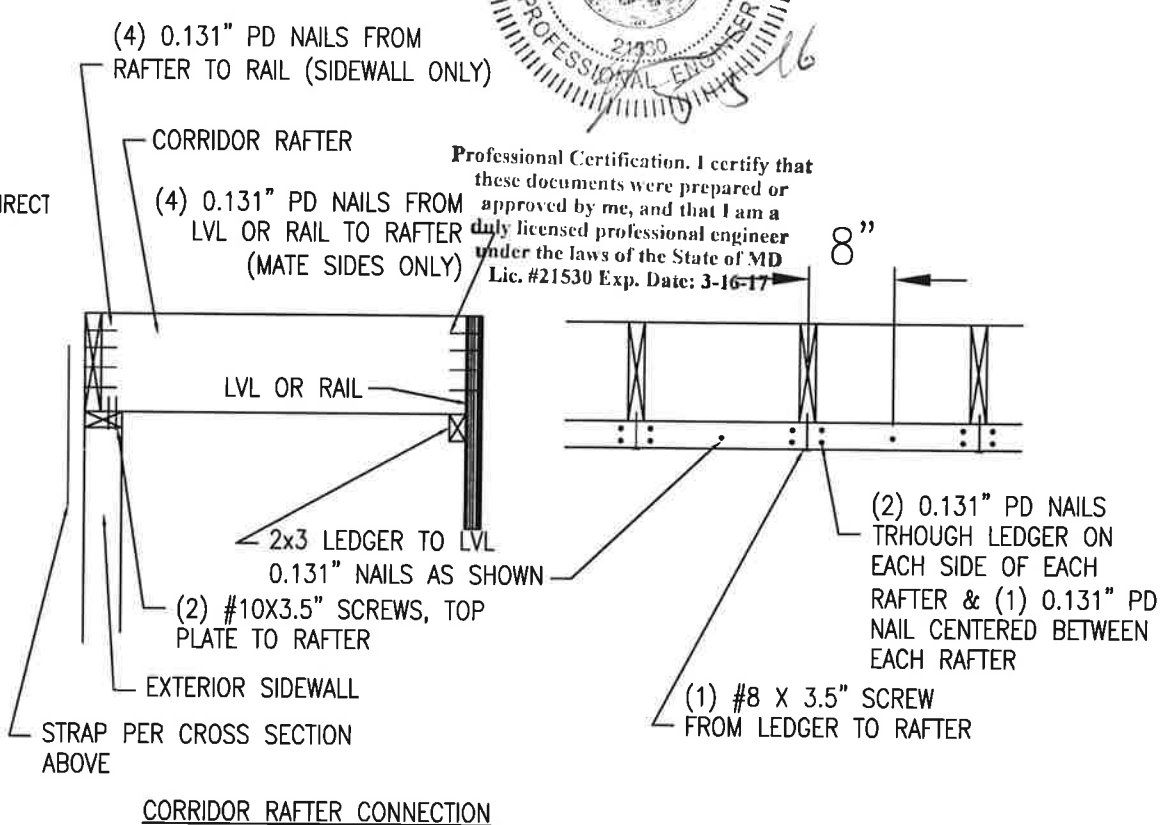
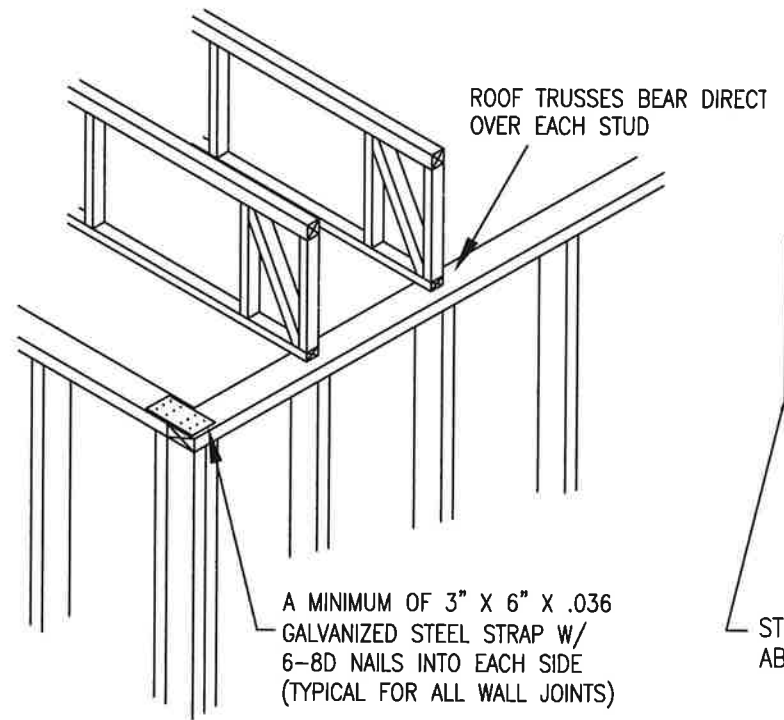
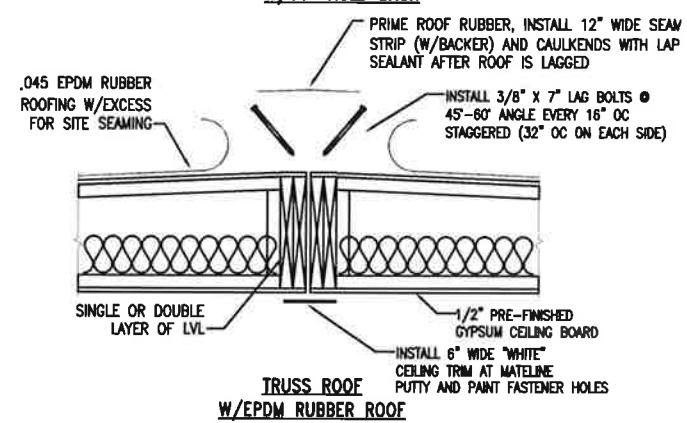
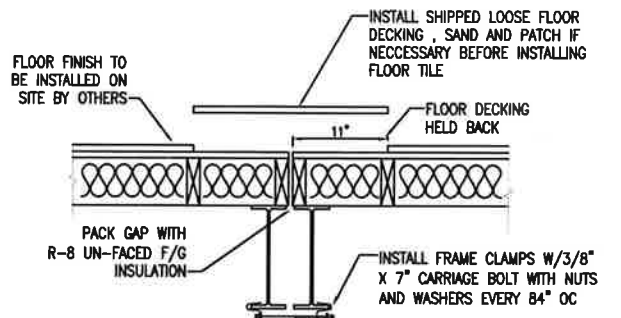
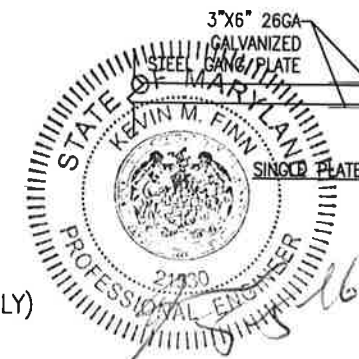
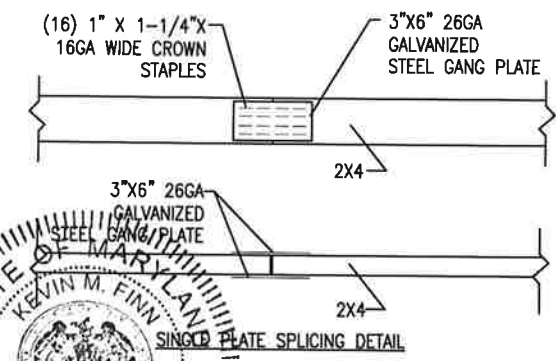
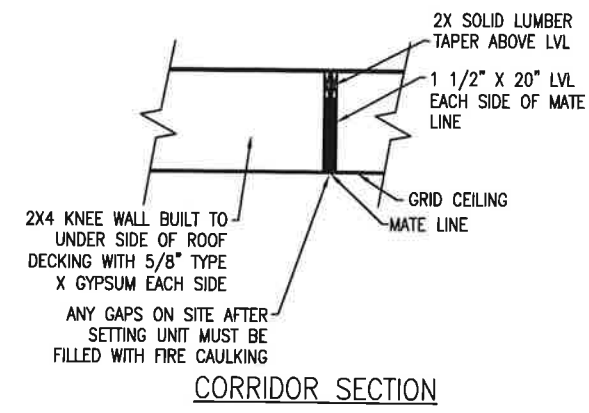
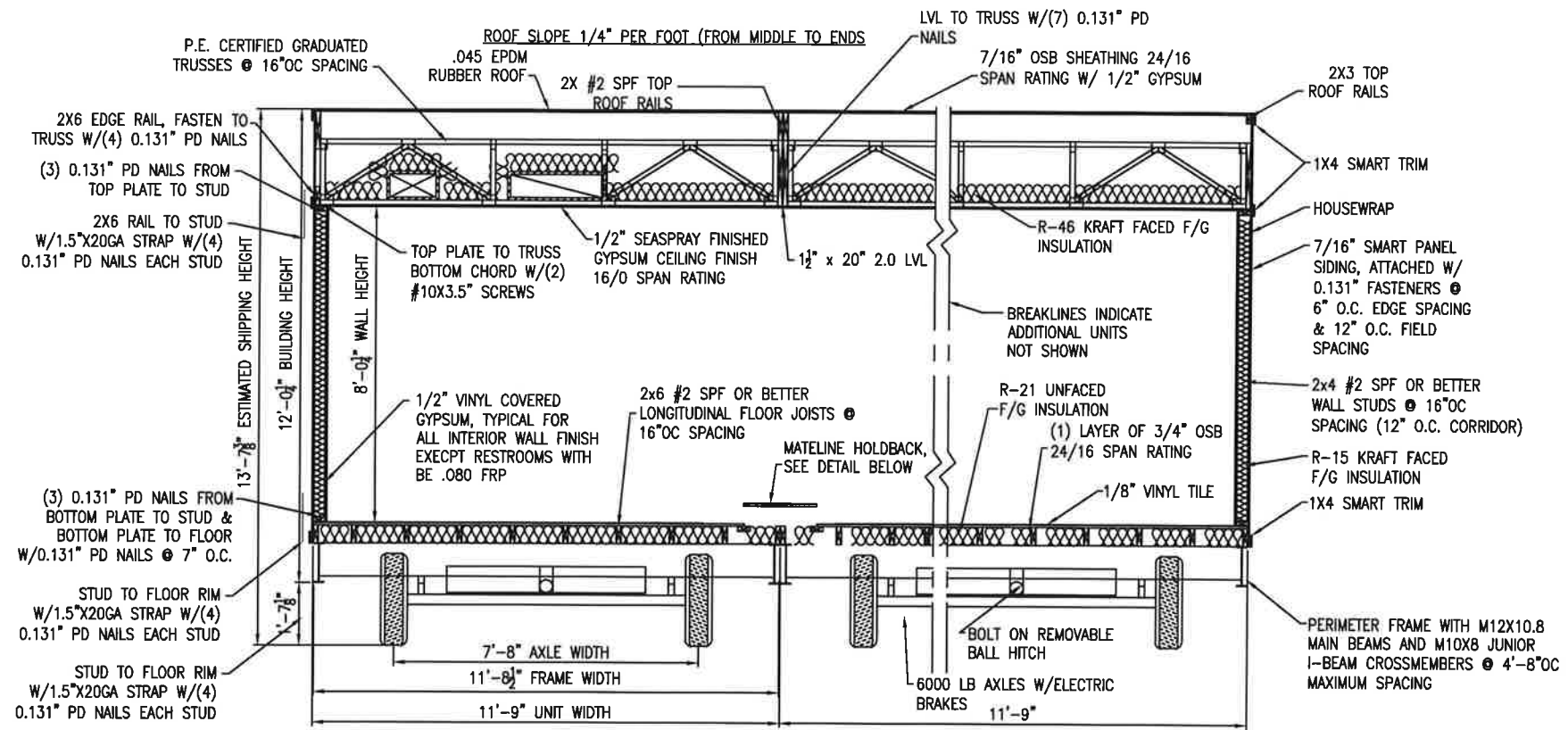
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MODULAR GENIUS
SMART BUILDING

ELECTRICAL PLAN

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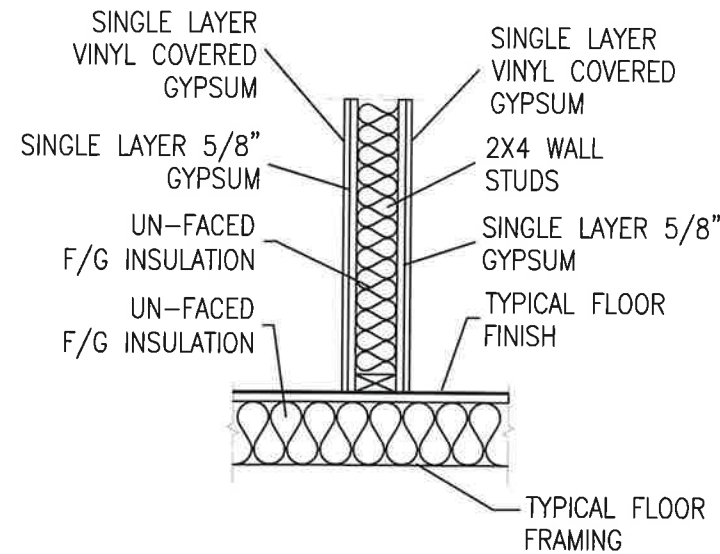
MODULAR GENIUS
SMART BUILDING

CROSS SECTION

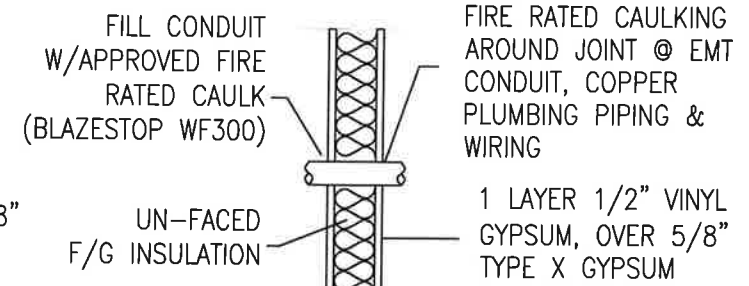
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WALLS AND INTERIOR PARTITIONS, WOOD-FRAMED

GA FILE NO. WP 3605	GENERIC	1 HOUR FIRE	30 to 34 STC SOUND
GYPSUM WALLBOARD, WOOD STUDS			
One layer 5/8" type X plain or predecorated gypsum wallboard, water-resistant gypsum backing board, or gypsum veneer base applied parallel or at right angles to each side of 2 x 4 wood studs 16" o.c. with 6d coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. Joints of square edge, bevel edge or predecorated wallboard may be left exposed.			
Joints staggered 16" on opposite sides. (LOAD-BEARING)			
Thickness: 4 7/8"		Approx. Weight: 7 psf	
Fire Test:		UL R1319-4, -6, 6-17-52; UL R2717-39, 1-20-66; UL R3501-52, 3-15-66, UL Design U305; ULC Design W301	
Sound Test:		OR 64-8, 2-4-64	

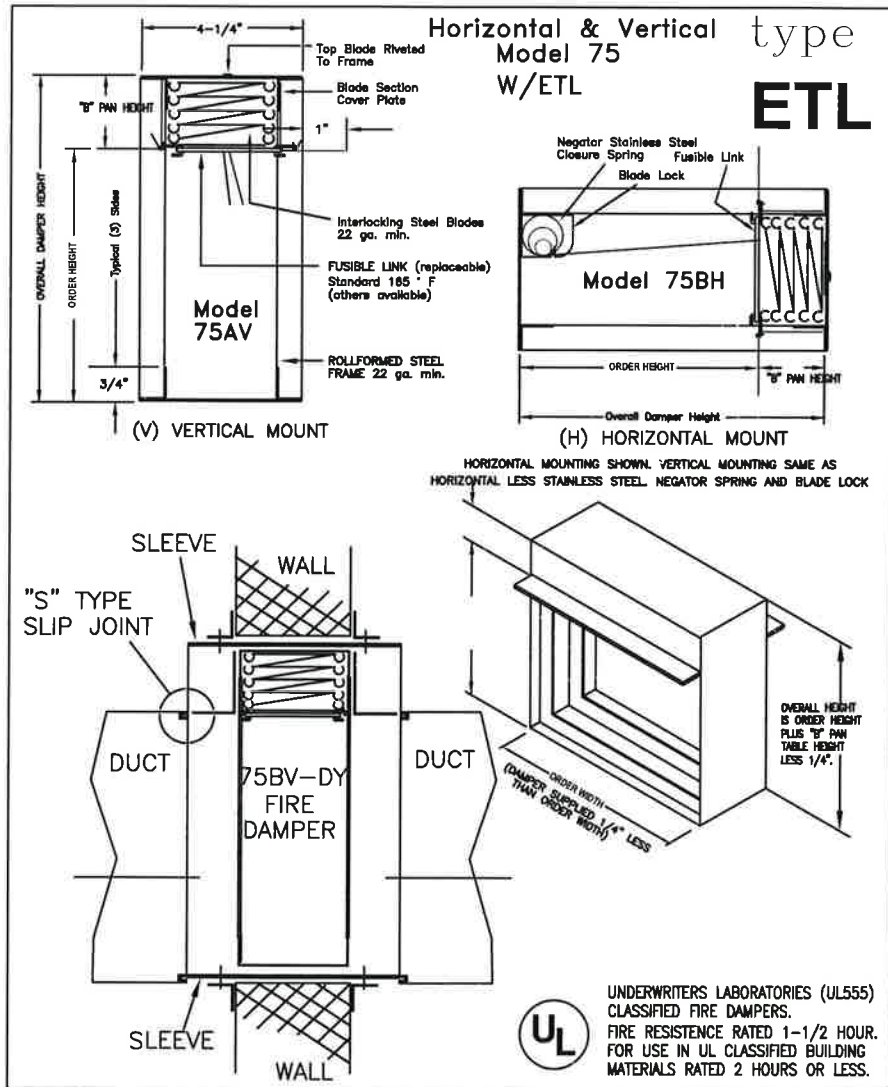


1-HOUR FIRE RATED (DESIGN #U305)
PARTITION WALL DETAIL

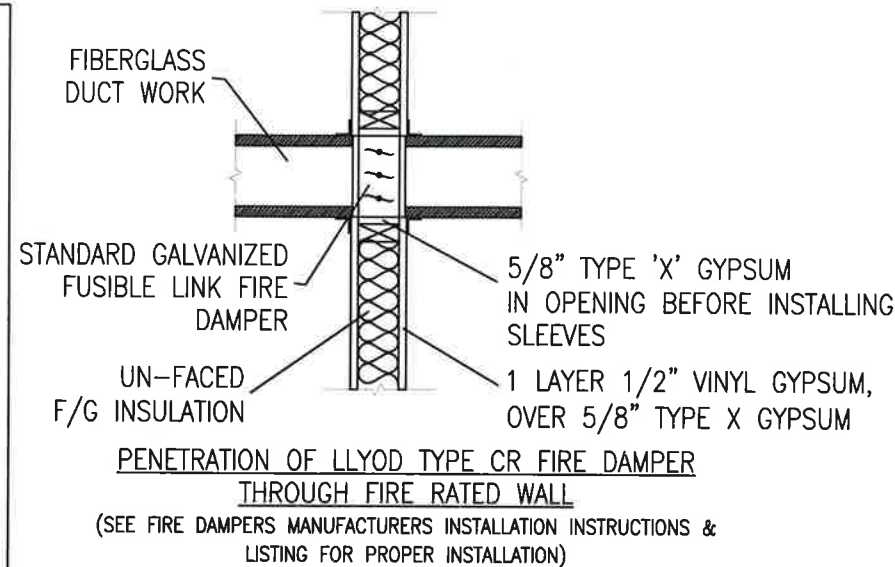


PENETRATION OF ELECTRICAL WIRING/CONDUIT & PLUMBING TO PASS THROUGH FIRE RATED WALL
XHEZ.W-L-1001 (PIPING)
XHEZ.W-L-3001 (ELECTRICAL)

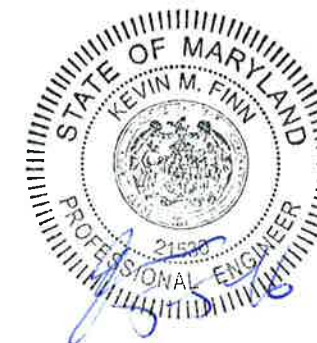
FIRE DAMPERS/SMOKE DAMPER



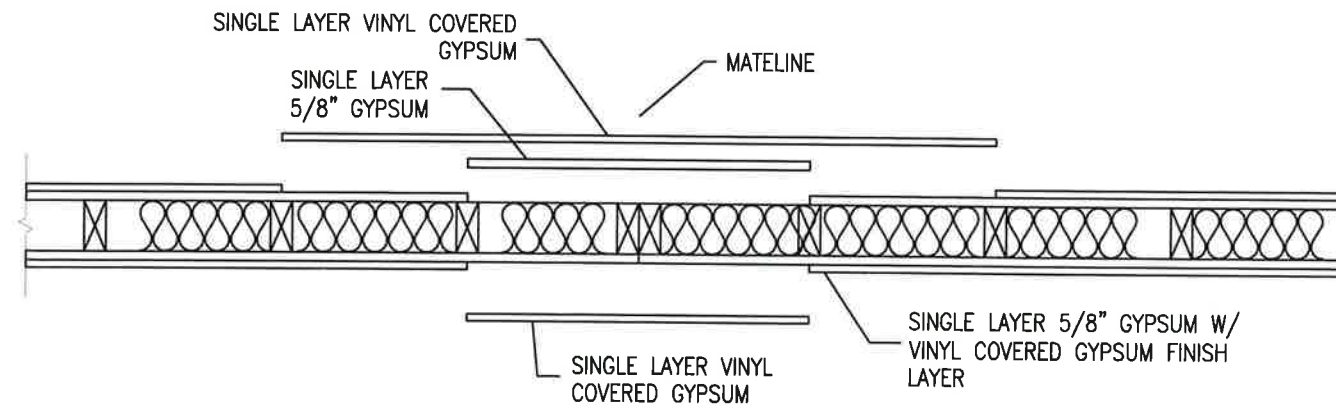
UNDERWRITERS LABORATORIES (UL555) CLASSIFIED FIRE DAMPERS. FIRE RESISTANCE RATED 1-1/2 HOUR. FOR USE IN UL CLASSIFIED BUILDING MATERIALS RATED 2 HOURS OR LESS.



PENETRATION OF LLYOD TYPE CR FIRE DAMPER THROUGH FIRE RATED WALL
(SEE FIRE DAMPERS MANUFACTURERS INSTALLATION INSTRUCTIONS & LISTING FOR PROPER INSTALLATION)



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1-HOUR FIRE RATED (DESIGN #WP3605)
MATELINE PARTITION WALL SEAMING DETAIL

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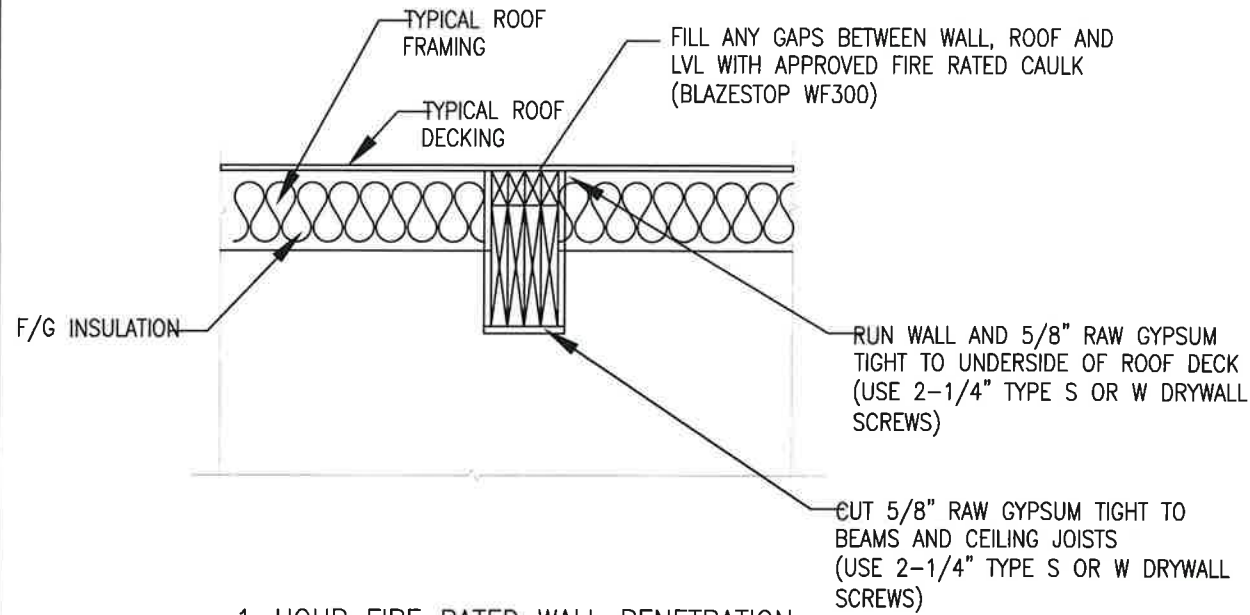
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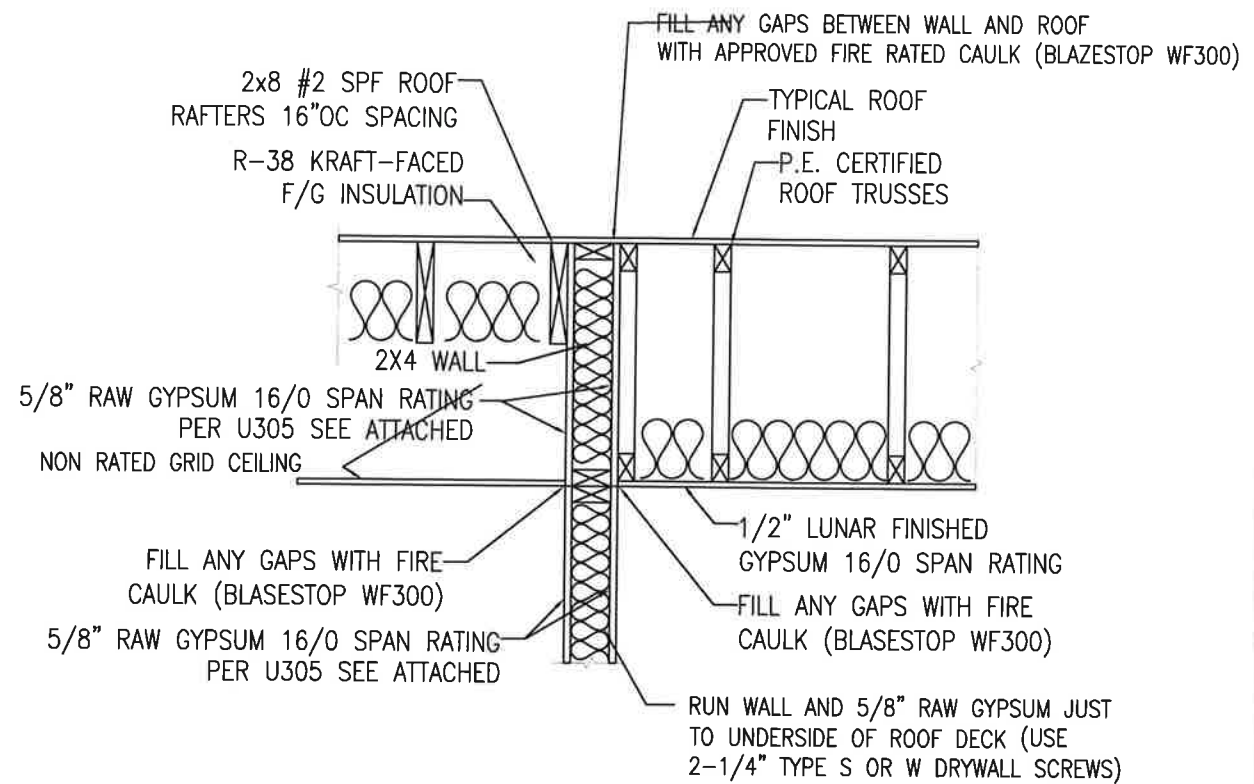
MODULAR GENIUS
SMART BUILDING

**FIRE WALL
DETAILS**

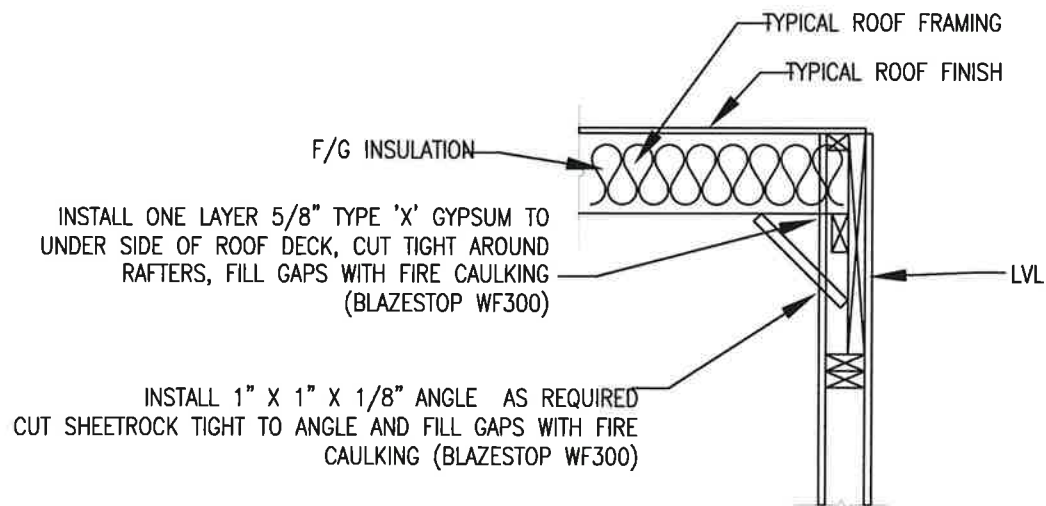
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APPROVED BY:	S2



1-HOUR FIRE RATED WALL PENETRATION
PERPENDICULAR WITH ROOF LVL BEAM DETAIL
SEE LISTED DETAILS SHEET S-2
WP3605



1-HOUR FIRE RATED WALL AT PARALLEL WITH
ROOF JOIST DETAIL
SEE LISTED DETAILS SHEET S-2
WP3605



1-HOUR FIRE RATED MATELINE WALL
AT ROOF DETAIL
SEE LISTED DETAIL SHEET S-2
WP3605



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MODULAR GENIUS
SMART BUILDING

FIRE WALL
DETAILS

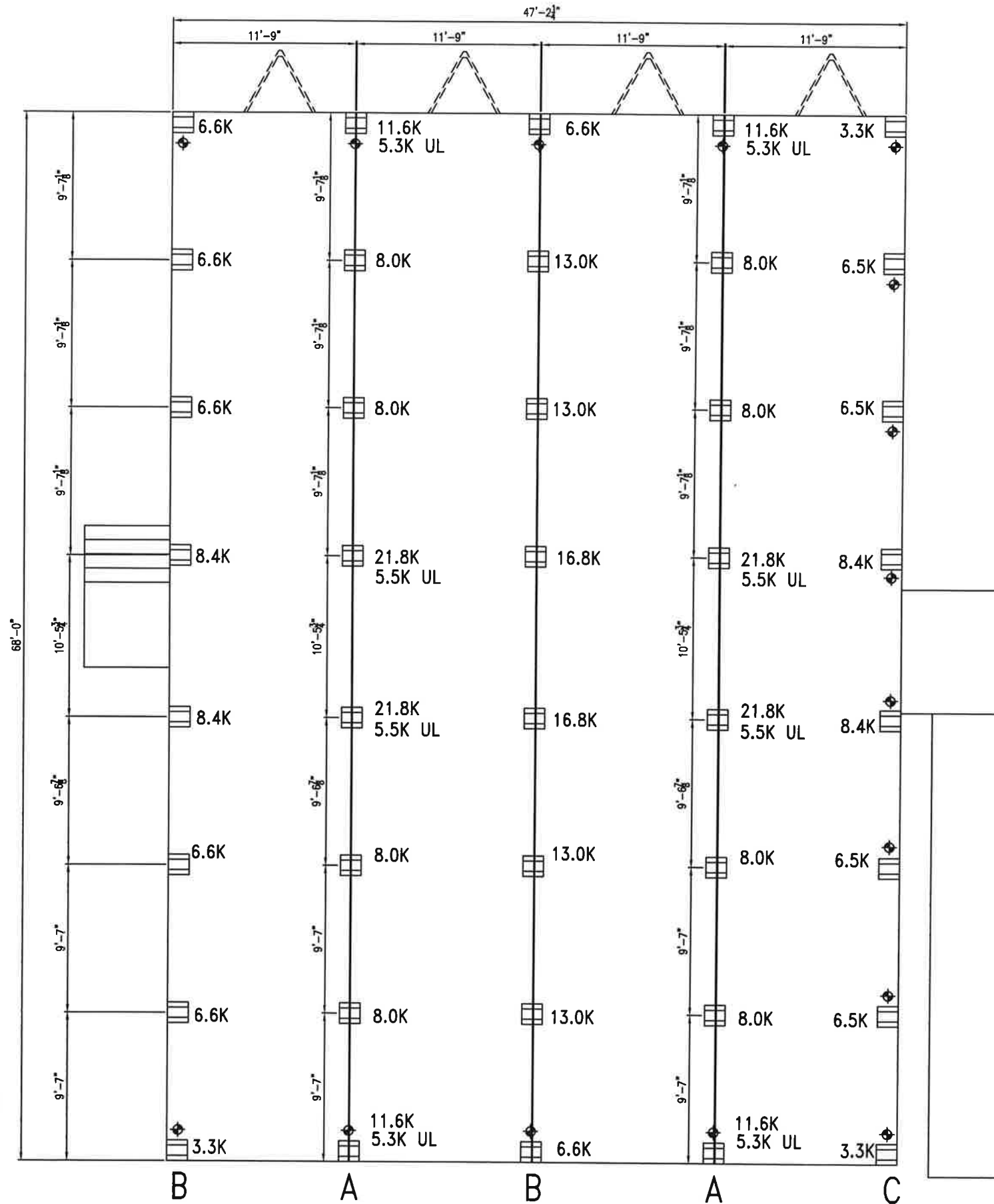
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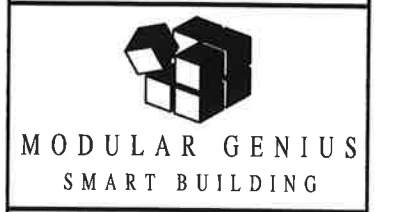
UPLIFT = 94 PLF ALONG SIDWALLS AND MATELINE WITH FULL WALL

UL = UPLIFT LOAD



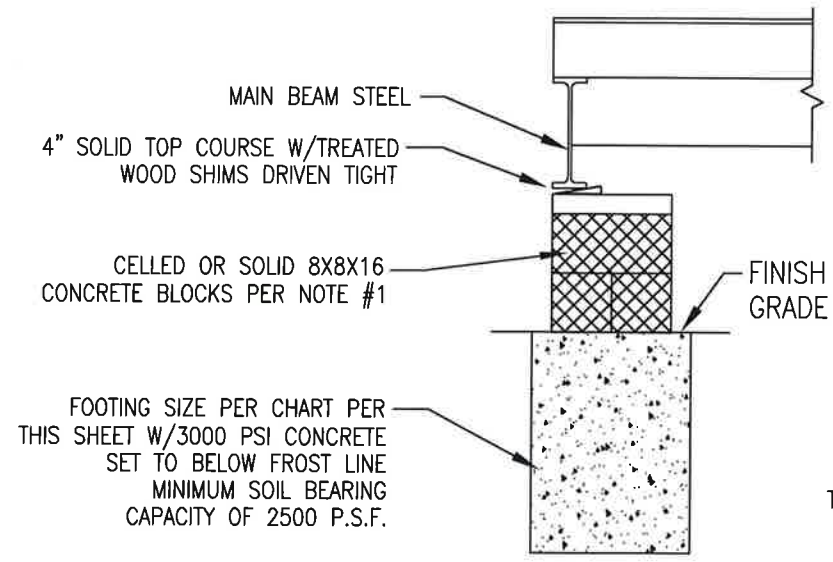
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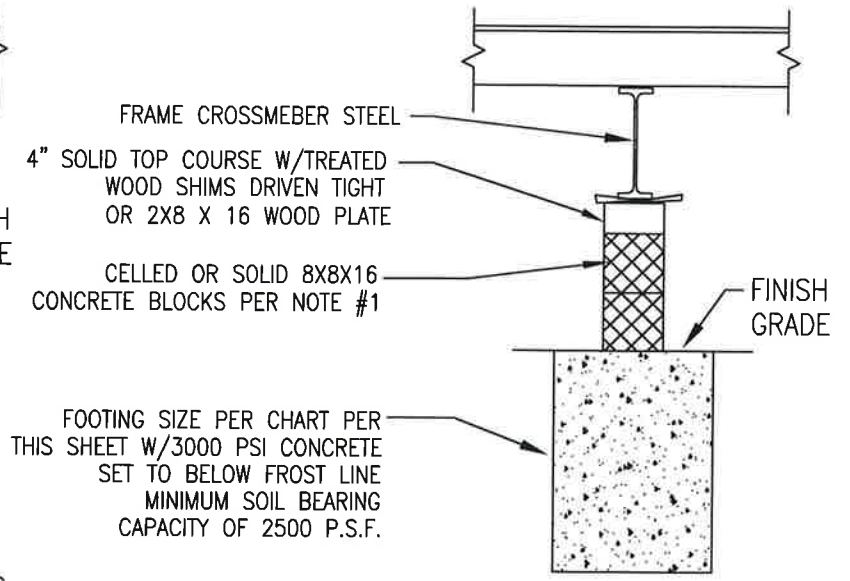


BLOCKING PLAN

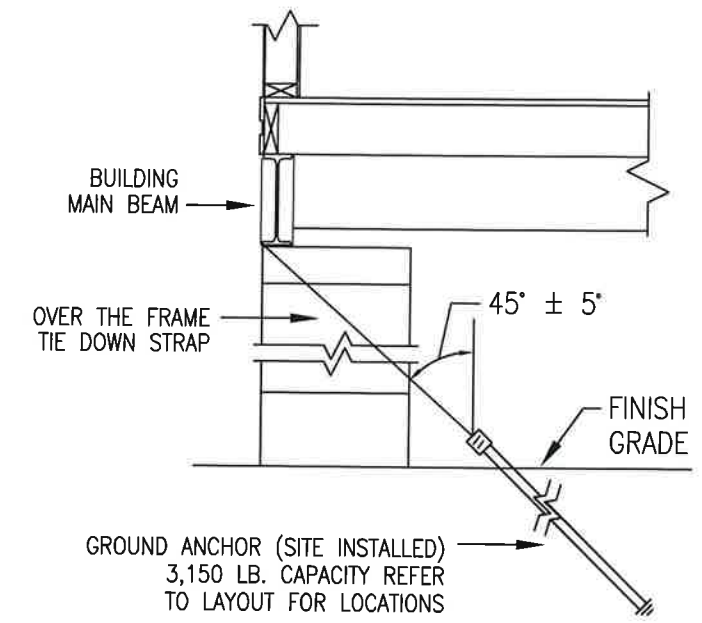
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APPROVED BY:	



MAIN BEAM PIER LOCATIONS
FOUNDATION DETAIL



CROSSMEMBER PIER LOCATIONS
FOUNDATION DETAIL



TIE DOWN DETAIL

NOTE:
THIS BLOCKING DESIGN BY MOBILE/MODULAR EXPRESS, IS ONLY A SUGGESTED DESIGN. FOUNDATION DETAILS, FOUNDATION SIZES & TIE DOWN LOCATIONS SHALL BE SPECIFIED ACCORDING TO LOCAL JURISDICTION. FINAL DESIGN IS SUGGESTED TO BE APPROVED BY A PROFESSIONAL ENGINEER FAMILAR WITH ALL OF THE SITE CONDITIONS.

FOUNDATION NOTES:

1. ALL FOUNDATION CONSTRUCTION, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES. THE PIER LOCATIONS PROVIDED ON THIS PLAN ARE FOR THE SOLE PURPOSE OF IDENTIFYING THE LOCATION OF THE REQUIRED BLOCKING POINTS FOR THIS BUILDING. FOUNDATION REQUIREMENTS ARE NOT KNOWN DUE TO VARYING SOIL CONDITIONS. FOUNDATION REVIEW AND INSPECTION IS TO BE PERFORMED BY THE LOCAL OFFICIAL HAVING JURISDICTION.
2. MINIMUM CONCRETE FOOTING DEPTH OF BELOW FROST LINE AND PER LOCAL CONDITIONS - 3,000 PSI @ 28 DAYS.
3. SINGLE STACK CONCRETE BLOCK FOR PIERS UP TO 32" IN HEIGHT WITH TYPE M OR S MORTAR. DOUBLE STACK CONCRETE BLOCK FOR PIERS BETWEEN 32" & 72" WITH TYPE M OR S MORTAR.
4. CORNER PIERS OVER 24" HIGH (THREE BLOCKS) SHALL BE DOUBLE BLOCK CONSTRUCTION WITH TYPE M OR S MORTAR.
5. TIE-DOWN STRAPS TO BE 1-1/4" X .035" TYPE-1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CONFORMING WITH ASTM d3953-91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE A MINIMUM WORKING CAPACITY OF 3,150 LBS.
6. GROUND ANCHORS SHALL HAVE A 3,150# MINIMUM WORKING CAPACITY AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
7. THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1SQ. FT IN 150 SQ. FT OF CRAWL-SPACE AREA.



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MINIMUM PIER DIMENSIONS (IN)	ALLOWABLE SOIL BEARING CAPACITY				
	2000PSF	2500PSF	3000PSF	3500PSF	4000PSF
18	3.5	4.4	5.3	6.2	7.1
20	4.4	5.5	6.5	7.6	8.7
22	5.3	6.6	7.9	9.2	10.6
24	6.3	7.9	9.4	11.0	12.6
26	7.4	9.2	11.1	12.9	14.7
28	8.6	10.7	12.8	15.0	17.1
30	9.8	12.3	14.7	17.2	19.6
32	11.1	14.0	16.8	19.5	22.3
34	12.6	15.8	18.9	22.1	25.2
36	14.1	17.7	21.2	24.7	28.3
38	15.7	19.7	23.6	27.5	31.4
40	17.5	21.8	26.2	30.5	34.9
42	19.2	24.0	28.8	33.6	38.4
44	21.1	26.3	31.6	36.9	42.2
46	23.0	28.8	34.6	40.3	46.1
48	25.1	31.4	37.6	43.9	50.2

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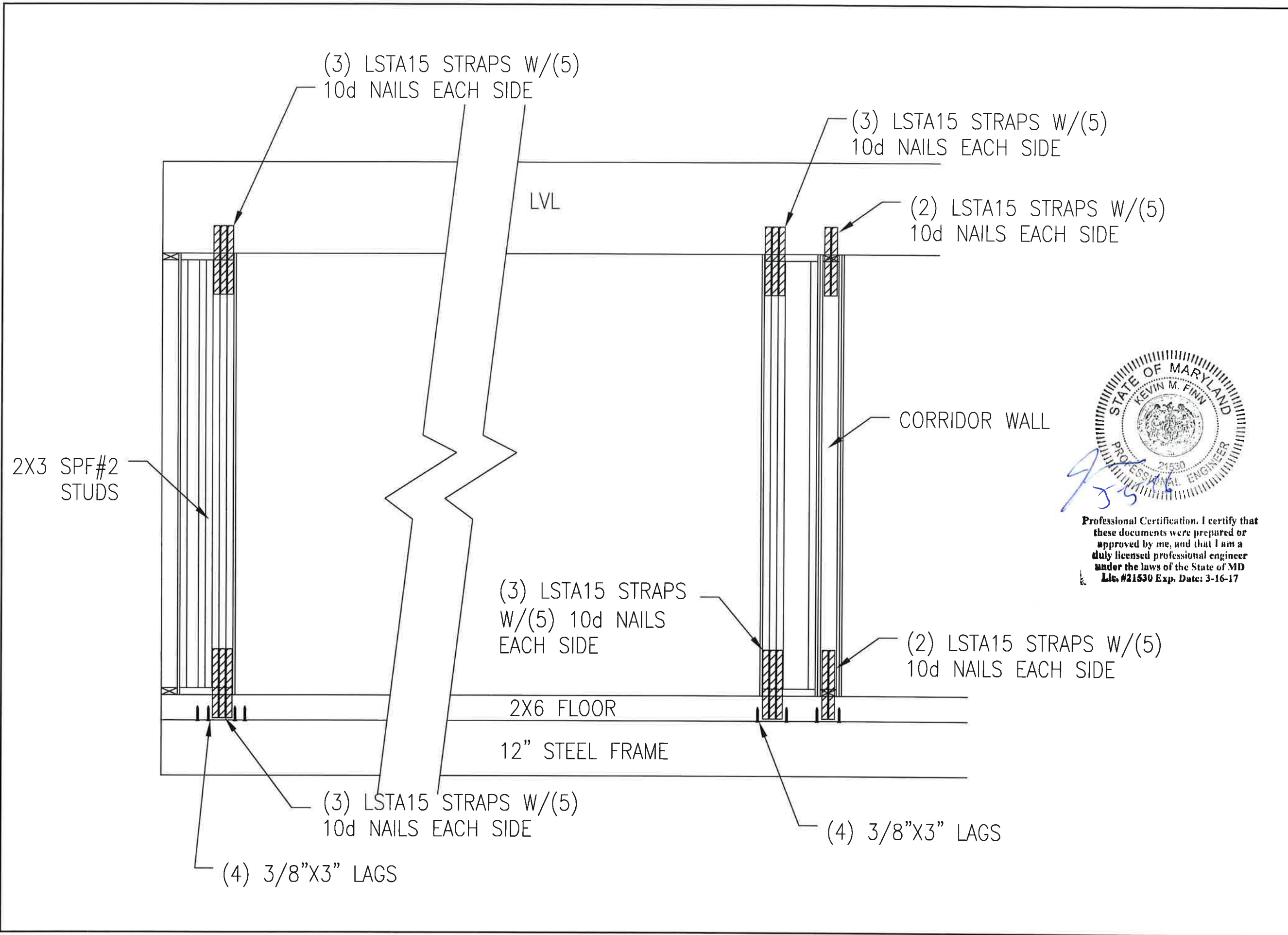
BALTIMORE INTERNATIONAL
ACADEMY



MODULAR GENIUS
SMART BUILDING

**BLOCKING
DETAILS**

DESIGNED: 4/15/16	DRAWN BY: HAS
SERIAL #: 16-0005	SCALE: N.T.S.
PRINTED: 4/29/16 8:50AM	DRAWING #: S5
APPROVED BY:	



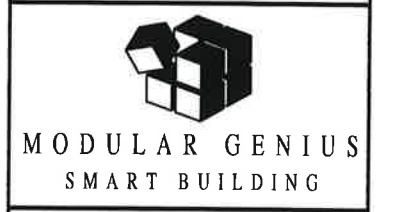
REVISION:									
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**STRAPPING
DETAIL**

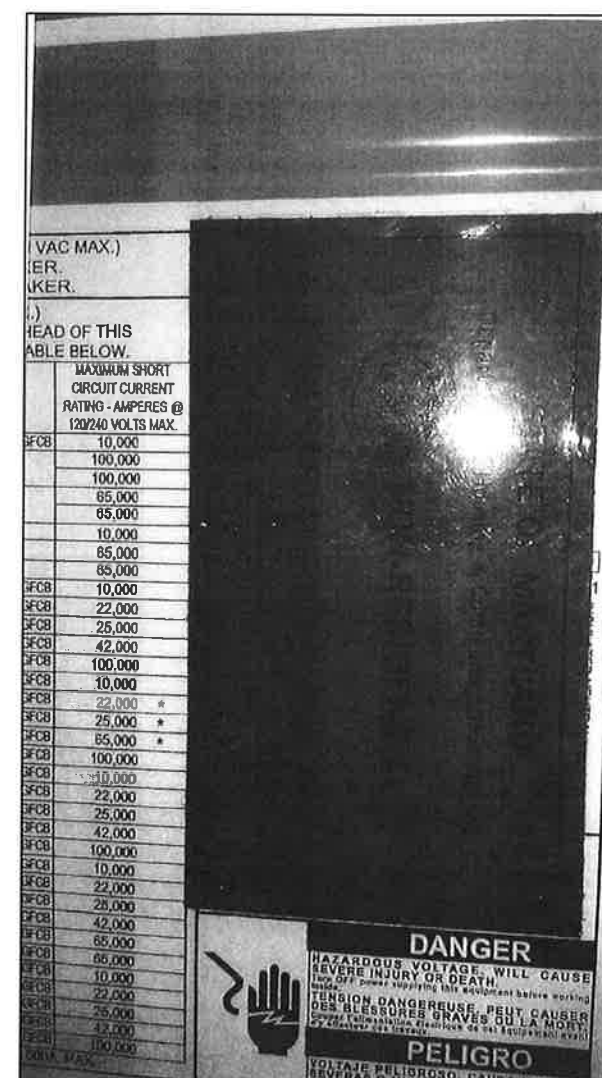
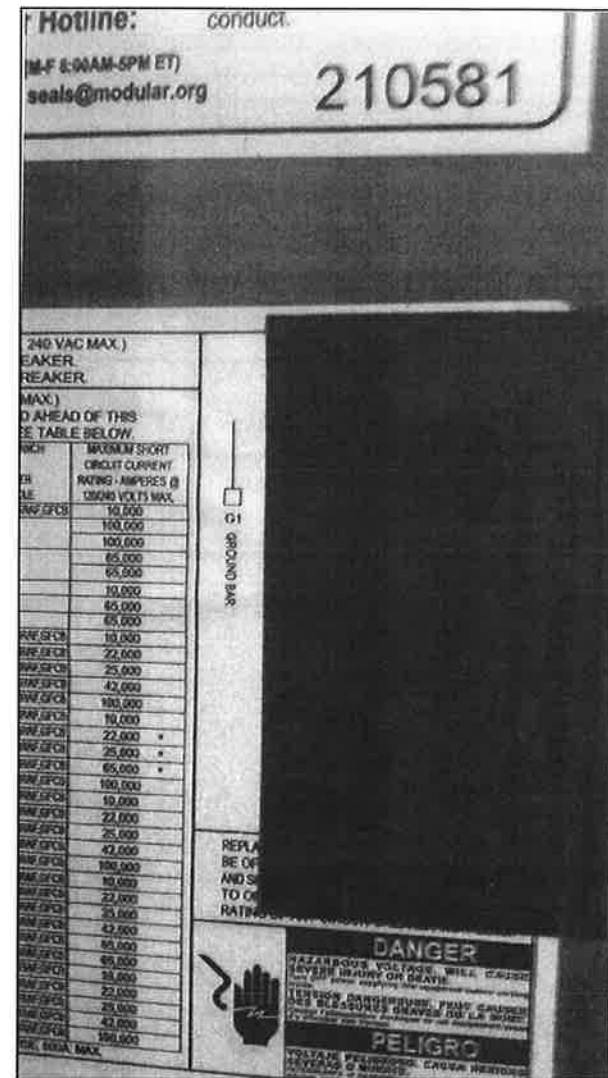
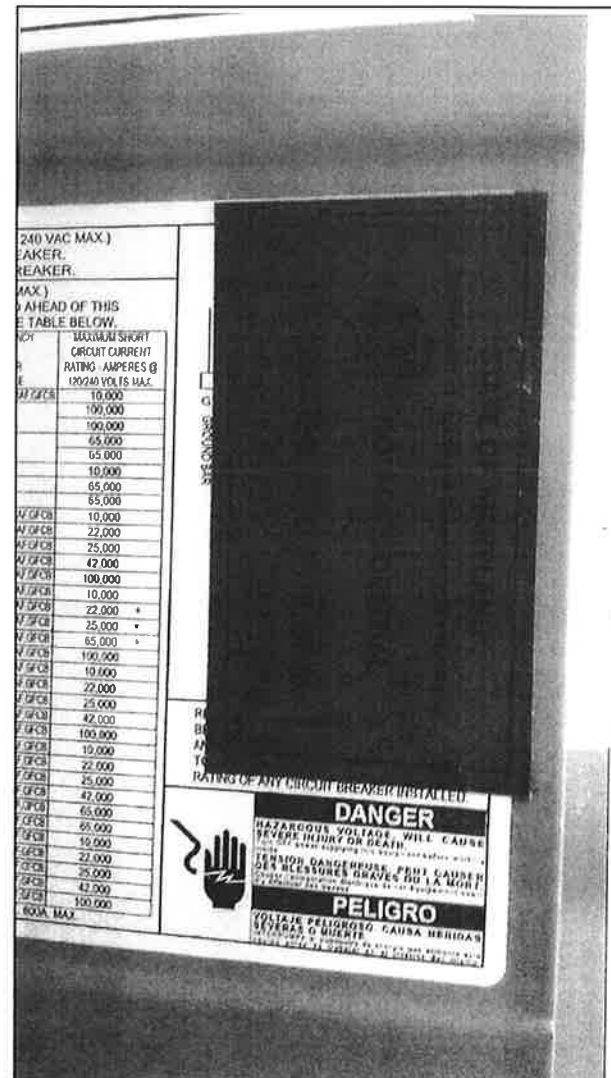
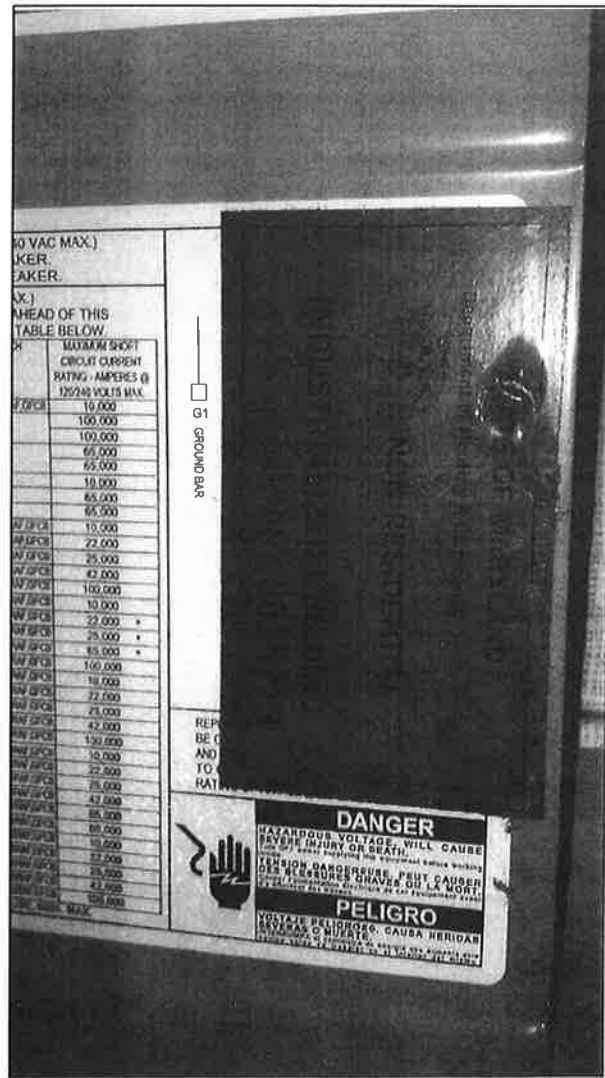
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S/N 30069A10-14
MD = NR-0035779

S/N 30069A10-15
MD = NR-0035780

S/N 30069A10-16
MD = NR-0035781

S/N 30069A10-17
MD = NR-0035782



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MODULAR GENIUS
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UNIT LABELS

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PRINTED: 4/29/16 8:50AM

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LB1



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