PROPOSED BUILDING ADDITION FOR:

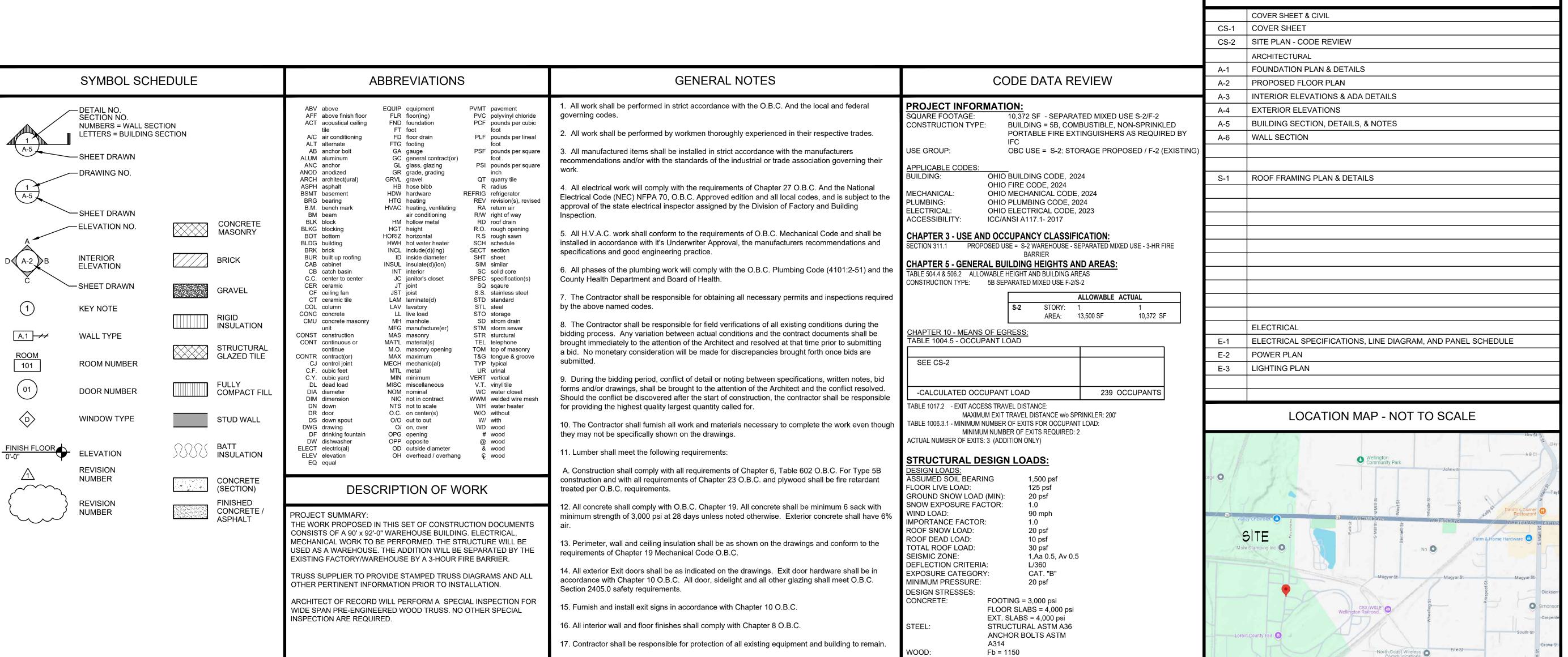
MORH STAMPING

ADDRESS OF SITE:

22038 FAIRGROUNDS ROAD WELLINGTON, OHIO 44090

PREPARED BY:

MAYER ARCHITECTURAL GROUP, INCORPORATED 1418 OHIO ROUTE 60 SUITE #5 - VERMILION, OHIO 44089



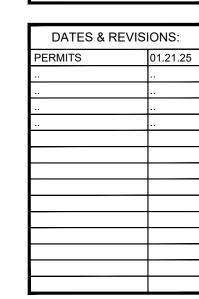
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REGISTERED STATES: PENNSYLVANIA **MICHIGAN INDIANA** ILLINOIS WISCONSIN NORTH CAROLINA SOUTH CAROLINA **IOWA**

TRAVIS P. MAYER VERMILION, OHIO 4408 PHONE: 216.789.8292

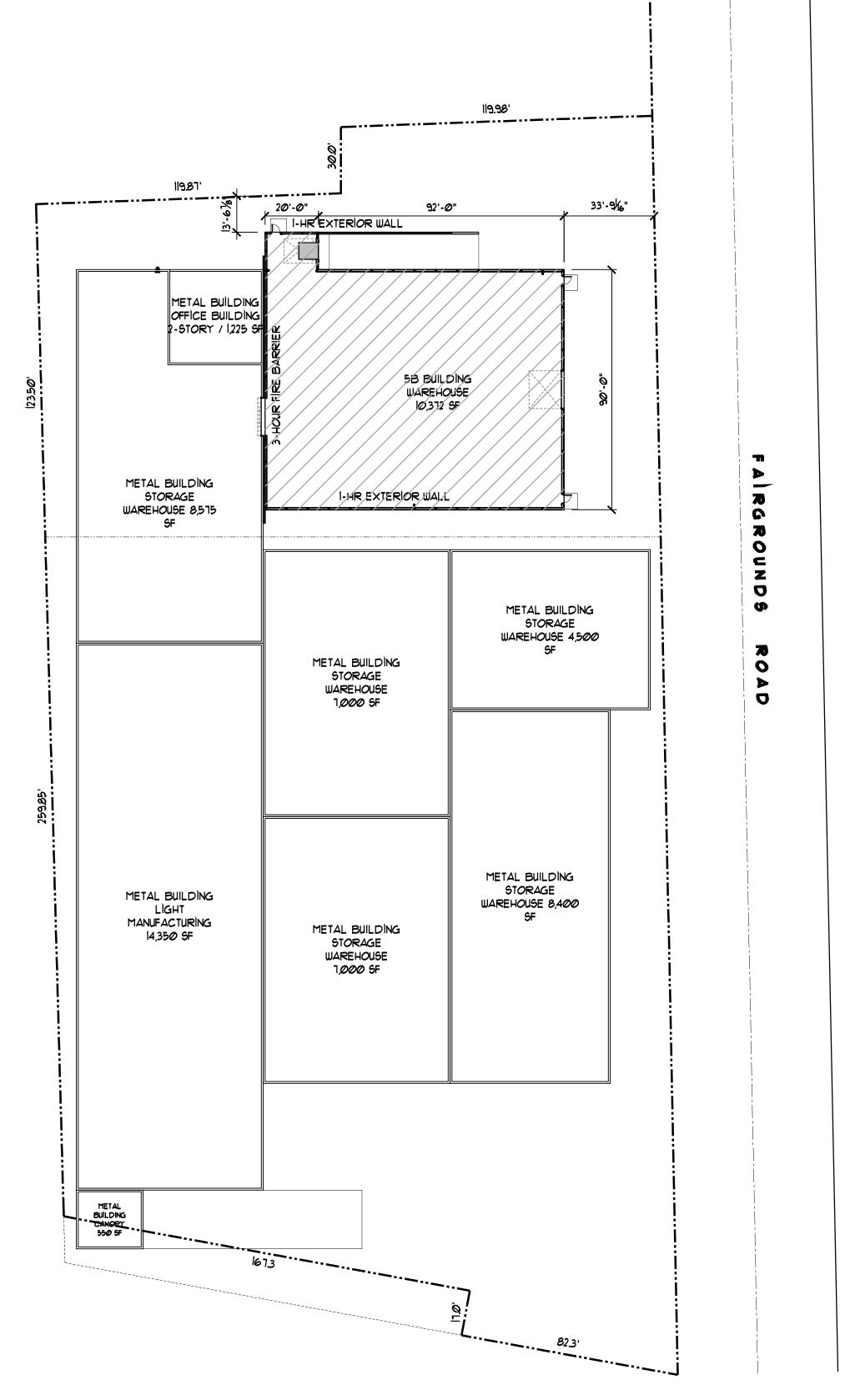
DRAWING INDEX



EXPIRES 12.31.25

SUILDING + STA AIRGROUN IGTON, OF SED BUORH 22038 FAIR WELLING

PROJECT NO: 2024-137 DRAWN BY: CHECKED BY: TPM



TOTAL BUILDING AREA w/ PROPOSED WAREHOUSE: TOTAL BUSINESS OCCUPANCY AREA(S): TOTAL FACTORY - F-2 AREA EXISTING WAREHOUSE OCCUPANCY AREA(S): WAREHOUSE ADDITION	= 62,450 SF = 2,450 SF = 14,328 SF = 35,300 SF = 10,372 SF
OFFICE PER OPC TABLE 403.1 WATER CLOSETS = 1 PER 25 FOR FIRST 50 LAVATORIES = 1 PER 40 FOR FIRST 80	2450 / 100 = 25 OCCUPANTS
WAREHOUSE AREA F-2 PER OPC TABLE 403.1 WATER CLOSETS = 1 PER 100 LAVATORIES = 1 PER 100	35,300 / 500 = 71 OCCUPANTS 14,328 / 100 = 143 OCCCUPNTS 214 OCCUPANTS / 2 = 107 MALE & 107 FEMALE (2) WATER CLOSET FOR MALE / (2) WATER CLOSET FOR FEMALE (2) LAVATORY FOR MALE / (2) LAVATORY FOR FEMALE
TOTAL RESTROOM FACILITIES REQUIRED:	MALE RESTROOMS = (3) WATER CLOSETS & (3) LAVATORIES FEMALE RESTROOMS = (3) WATER CLOSETS & (3) LAVATORIES
TOTAL RESTROOM FACILITIES PROVIDED:	MALE RESTROOMS = (5) WATER CLOSETS & (3) LAVATORIES FEMALE RESTROOMS = (6) WATER CLOSETS & (3) LAVATORIES

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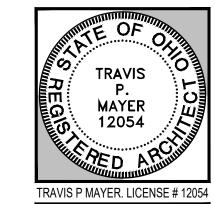
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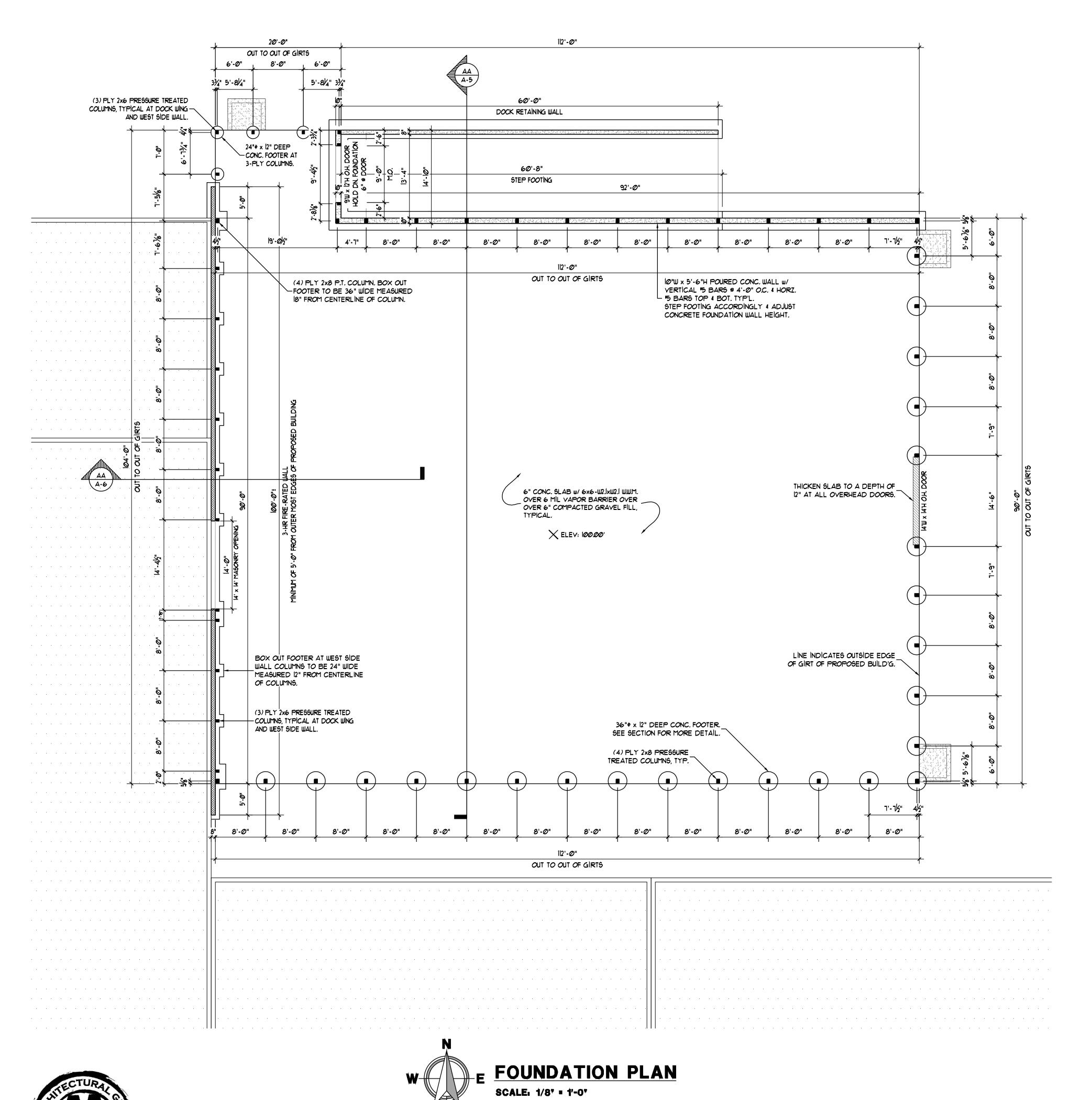
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PROJECT NO: 2024-137 CHECKED BY: TPM



FOUNDATION / MASONRY WALL NOTES:

- 1. THE TOP OF FIRST FLOOR FINISHED SLAB IS 100.00' UNLESS NOTED OTHERWISE ELEVATIONS GIVEN ON THE FOUNDATION PLANS ARE FROM THIS ELEVATION DATUM.
- 2. PROVIDE 2.5" OF CONCRETE COVER, OVER STEEL REINFORCEMENT EXCEPT WHERE CONCRETE IS IN CONTACT WITH THE EARTH. WHERE CONCRETE IS IN CONTACT WITH THE EARTH
- PROVIDE 3" OF CONCRETE COVER. 3. ALL REINFORCING STEEL REBAR SHALL BE GRADE 60 IN
- ACCORDANCE WITH ASTM A615 SPECIFICATIONS. 4. THE DEPTH TO THE BOTTOM OF ALL COLUMN AND WALL FOOTINGS
- SHALL BE 42" BELOW FINISHED GRADE MINIMUM.
- 5. THE CONTRACTOR SHALL NOT SCALE FROM DRAWINGS, BUT SHALL USE DIMENSIONS GIVEN TO DO LAYOUT AND INSTALLATION.
- 6. THE BOTTOM OF THE FOOTING MUST BEAR ON SOLID GROUND OR IF BUILDING ON ENGINEERED FILL WITH A MIN. 3,000 PSF SUBJECT TO SOIL PRESSURE TEST AND SHALL BE 42" BELOW FINISHED GRADE (MIN.) IF A DISCREPANCY FROM PRESUMED SOIL BEARING CAPACITY EXISTS, CONTRACTOR SHALL NOT PLACE FOUNDATION
- WITHOUT WRITTEN INSTRUCTION FROM THE ARCH./ENGINEER. 7. CONCRETE SLAB TO BE STRUCTURALLY REINFORCED IF OVER EXCESSIVE FILL.
- 8. ALL SUBCONTRACTORS TO SUPPLY THEIR OWN SLEEVES FOR PENETRATIONS THROUGH FINISH FLOOR AND/OR WALL CONSTRUCTION.
- 9. GENERAL CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL SLEEVES WITH ALL SUB-CONTRACTORS PRIOR TO INSTALLATION.

ALL DIMENSIONS SHOWN ON PRINTS ARE APPROXIMATE. ALL PRINTS ARE SUBJECT TO BOTH CONSTRUCTION & ARCHITECTURAL VARIABLES. ALL SYMBOLS SHOWN ON PRINTS ARE COMPUTER GENERATED AND MAY VARY BASED ON ACTUAL PRODUCTS USED. RENDERINGS ARE THE DRAFTER'S CONCEPT.

FOUNDATIONS SYSTEM:

THE CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION FOR ANY UNDOCUMENTED UNDERGROUND UTILITIES. IF DEVIATION FROM PLANS EXIST. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE SUPPORT OF UTILITIES ACROSS EXCAVATIONS.

ALLOWABLE BEARING:

<i>57 7</i> . <i>6</i>	COLUMN FOOTINGS	1,500 PSF
<u>DESIGN:</u> PRESSURE =	FOUNDATION WALL	35 PCF FLUID

MATERIAL = SHAPES & PLATES

ANCHOR BOLTS ELECTRODES E70XX 3,000 PSI

MATERIAL = FOOTINGS

FLOORS 4,000 PSI REINFORCING **GRADE 60**

SPECIFIED STRENGTH 4,000 PSI REQ'D AVG. STRENGTH

MIX #3 S.O.G. (AIR) w/c RATIO .46: CEMENT TYPE (1) FINE AGGREGATE

#57 LIMESTONE #8 LIMESTONE 500 LBS. TOTAL WATER 283 LBS MBL 80 W.R. MBVR (AIR) MAX SLUMP

3/4 INCH 1-1/2 INCHES

REINFORCING EMBEDMENT & LAP SPLICES (ICHES):

	REG		IOP	
BAR SIZE	<u>LD</u>	SPLICE	<u>LD</u>	<u>SPLICE</u>
#4	12	20	17	29
#5	15	26	21	36
#6	18	31	25	43
#7	23	39	32	54
#8	30	51	42	71
#9	38	65	53	90
#10	48	82	68	115
#11	59	101	83	141

* HORIZONTAL BARS w/ MORE THAN 12" OF CONC. BELOW BAR.

REINFORCING MASONRY:

- BE LOAD BEAR'G ASTM C-90 BLOCK
- 2. CORE FILLS SHALL BE GROUT OR PEA GRAVEL CONCRETE w/ ULTIMATE COMPRESSION
- STRENGTH @ 2,500 PSI MINIMUM 3. MORTAR SHALL BE TYPE "M"
- 4. REBAR LAP SPLICES SHALL BE 40 BAR DIA.

CAPACITY = WALL FOOTINGS

1,500 PSF

PRESSURE ASTM A-36

FASTNERS ASTM A-325 **ASTM A-307**

CONCRETE WORK:

STRUCTURAL STEEL

ASTM A-615

DESIGN METHOD: ACI 301-97, SECTION 4.2.3.4.B

STRENGTH OVER DESIGN 1,200 PSI 5,200 PSI 611 LBS.

1,180 LBS. 1,250 LBS. 4 OZ/CWT 1 OZ/CWT 5 INCHES

SLAB = INTERIOR

	EXTERIOR	1-1/2 INCHES
FOOTING =	TOP / SIDES	2-1/2 INCHES
	BOTTOM	3 INCHES
BEAM / COL. / WALL =	INTERIOR	1-1/2 INCHES
	EXTERIOR	2 INCHES

- MATERIAL = 1. PARTIALLY REINFORCED WALL SHALL

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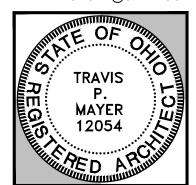
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PERMITS	01.21.25						

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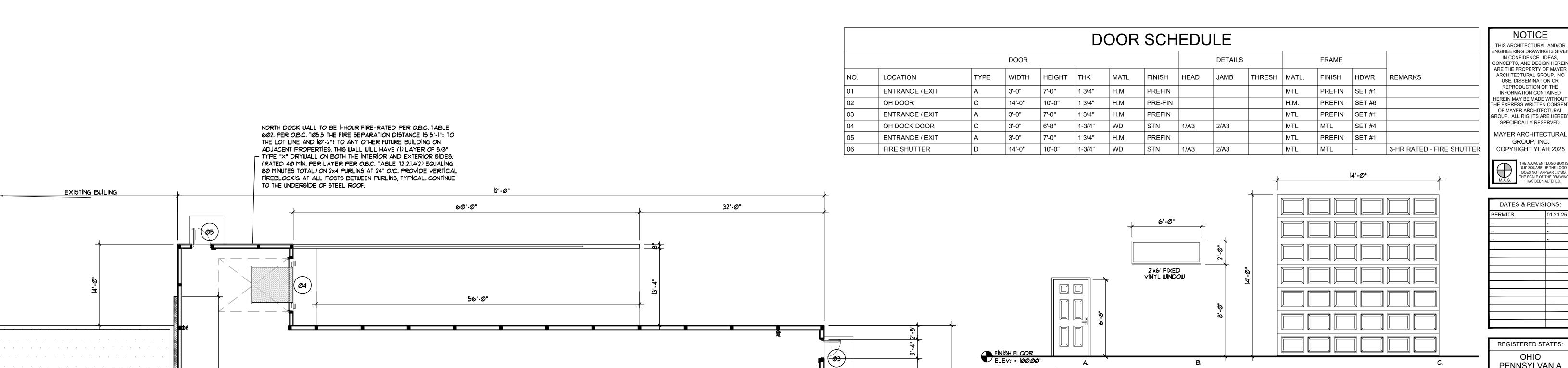
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PROJECT NO: 2024-137 DRAWN BY: TMK CHECKED BY: TPM

A-1

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SOUTH WALL TO BE 1-HOUR FIRE-RATED PER O.B.C. TABLE 602. PER O.B.C. 1055 THE FIRE SEPARATION DISTANCE IS 5'-1": TO THE LOT

LINE AND 10'-2" TO ANY OTHER FUTURE BUILDING ON ADJACENT

PROPERTIES, THIS WALL WILL HAVE (1) LAYER OF 5/8" TYPE "X"

TOTAL) ON 2x4 PURLINS AT 24" O/C. PROVIDE VERTICAL

TO THE UNDERSIDE OF STEEL ROOF.

- DRYWALL ON BOTH THE INTERIOR AND EXTERIOR SIDES. (RATED 40

MIN. PER LAYER PER O.B.C. TABLE 12/2/14(2) EQUALING 80 MINUTES

FIREBLOCK'G AT ALL POSTS BETWEEN PURLINS, TYPICAL. CONTINUE

INSULATED METAL DOOR 14'-0"

GENERAL NOTES

PROPOSED LOCATIONS FOR NEW FIRE EXTINGUISHERS SEE PLAN ABOVE, FIRE CHIEF TO VERIFY TYPE,

- QUANTITY, AND LOCATION. ALL WORK OF THIS PROJECT SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES. ALL CONTRACTORS PERFORMING WORK ON THE PROJECT SHALL BE RESPONSIBLE FOR KNOWING THE QUALITY AND PUBLIC SAFETY REGULATIONS SET FORTH IN THESE GOVERNING CODES AND ALL OTHER APPLICABLE REGULATIONS OF LOCAL AND STATE AGENCIES HAVING JURISDICTION OVER THE WORK OF THIS PROJECT. INTERIOR FINISH & TRIM REQUIREMENTS.
- 3.1. ALL MATERIAL USED FOR INTERIOR WALL FINISH AND TRIM SHALL BE CLASSIFIED IN ACCORDANCE

CLASS A FLAME SPREAD: 0 - 25;

CLASS B FLAME SPREAD: 26 - 75; SMOKE DEVELOPED: 0 - 450 CLASS C FLAME SPREAD: 76 - 200; SMOKE DEVELOPED: 0 - 450

3.2. ALL INTERIOR WALL FINISHES IN ROOMS OR ENCLOSED SPACES WITHIN THE BUILDING SHALL BE CLASS C OR BETTER INCLUDING WOOD TRIM UNLESS NOTED OTHERWISE. MAIN EXIT AISLES SERVING 50 OR MORE OCCUPANTS SHALL BE A MINIMUM OF 44" IN WIDTH &

SECONDARY AISLES SHALL BE A MINIMUM OF 36" IN WIDTH.

ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITH A SINGLE EFFORT WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.

PROVIDE A TACTILE EXIT SIGN ADJACENT TO EGRESS DOORS IN COMPLIANCE WITH A.N.S.I. 117.1. SIGNS SHALL READ, "EXIT" AND SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE 1" TALL LETTERS RAISED 1/32" ABOVE THE SIGN BACKGROUND. SIGNS SHALL BE MOUNTED 48" A.F.F. TO CENTERLINE AT LOCATIONS AS APPROVED BY THE LOCAL BUILDING OFFICIAL.

PROVIDE MAXIMUM OCCUPANCY SIGN AND POST PER LOCAL CODE AT MAIN ENTRANCE AREA. CONTRACTOR SHALL CLARIFY MAX. OCCUPANCY LOAD AND SIGNAGE REQUIREMENTS WITH LOCAL

LIFE SAFETY LEGEND

PER OHIO BUILDING CODE 2017, SECTION AND TABLE 1017.2 MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE w/o SPRINKLER SYSTEM: 200.00 FEET. PER OHIO BUILDING CODE, SECTION AND TABLE 1006.3.1 MINIMUM NUMBER OF EXITS: REQUIRED: 2 PROVIDED: 3

FIRE EXTINGUISHERS FOR CLASS "A" FIRE HAZARDS - ORDINARY HAZARD OCCUPANCY.

3A:40B:C RATED FIRE EXTINGUISHERS REQUIRED. THE MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER IS 75.00 FEET PER IFC TABLE 906.3(1)

FIRE EXTINGUISHERS TO BE MOUNTED AT 4'-0" FROM FINISH FLOOR PER MANUFACTURER'S SPECIFICATIONS IN UNOBSTRUCTED AND UNOBSCURED LOCATIONS. PROVIDE INDICATOR SIGNAGE AS REQUIRED.

PROPOSED LOCATIONS FOR NEW FIRE EXTINGUISHERS SEE PLAN ABOVE, FIRE CHIEF TO VERIFY TYPE, QUANTITY, AND LOCATION.

HE SCALE OF THE DRAWI HAS BEEN ALTERED. DATES & REVISIONS: REGISTERED STATES: OHIO PENNSYLVANIA **MICHIGAN** INDIANA ILLINOIS WISCONSIN NORTH CAROLINA SOUTH CAROLINA IOWA

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0.5" SQUARE. IF THE LOGO

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DPOSED BUILDING ADDITION
MORH STAMPING
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WELLINGTON, OHIO 44090

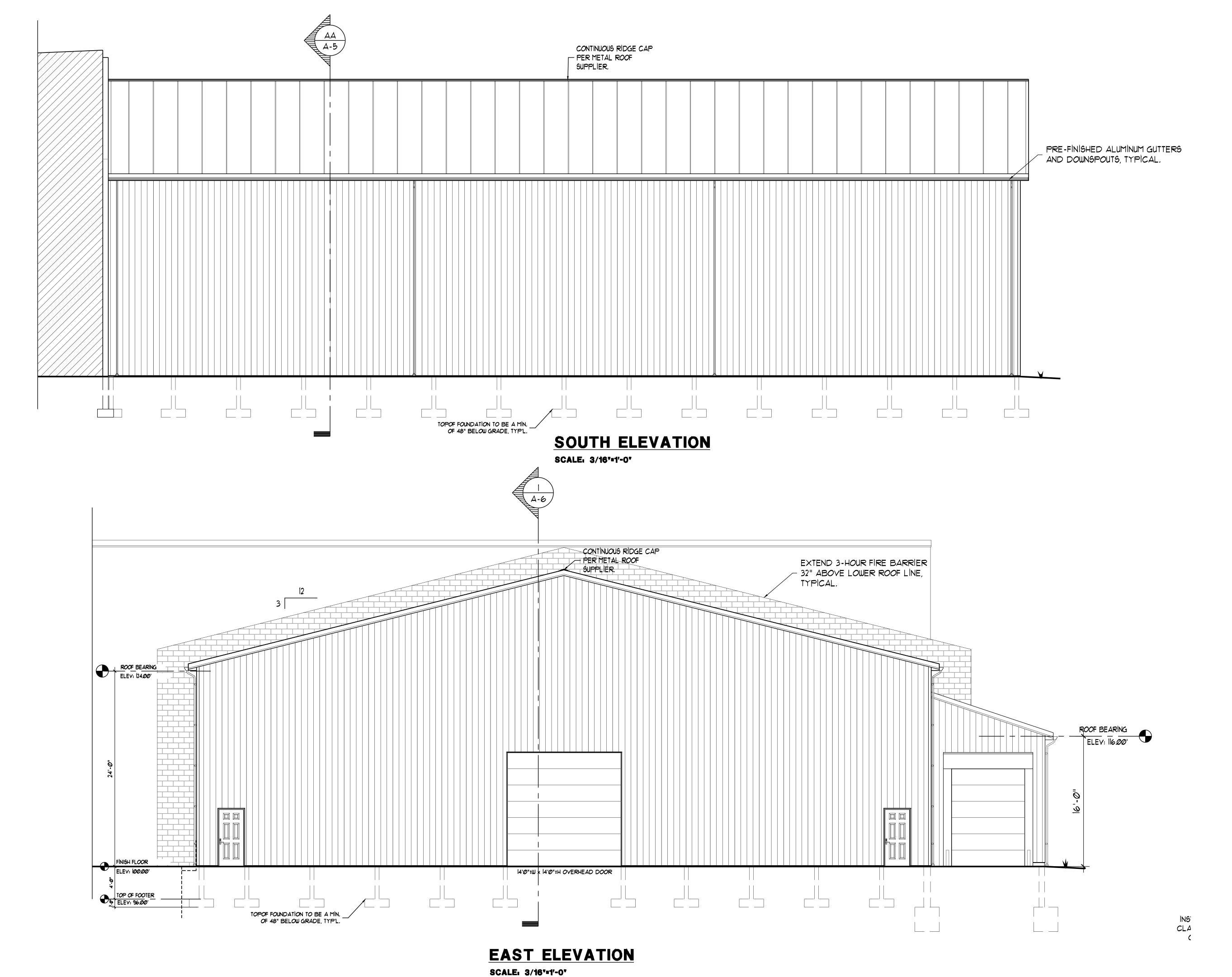
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06

3-HOUR MASONRY FIRE PARTITION TYPICAL

A-2



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MAYERARCHGRP@GMAIL.COM

TRAVIS

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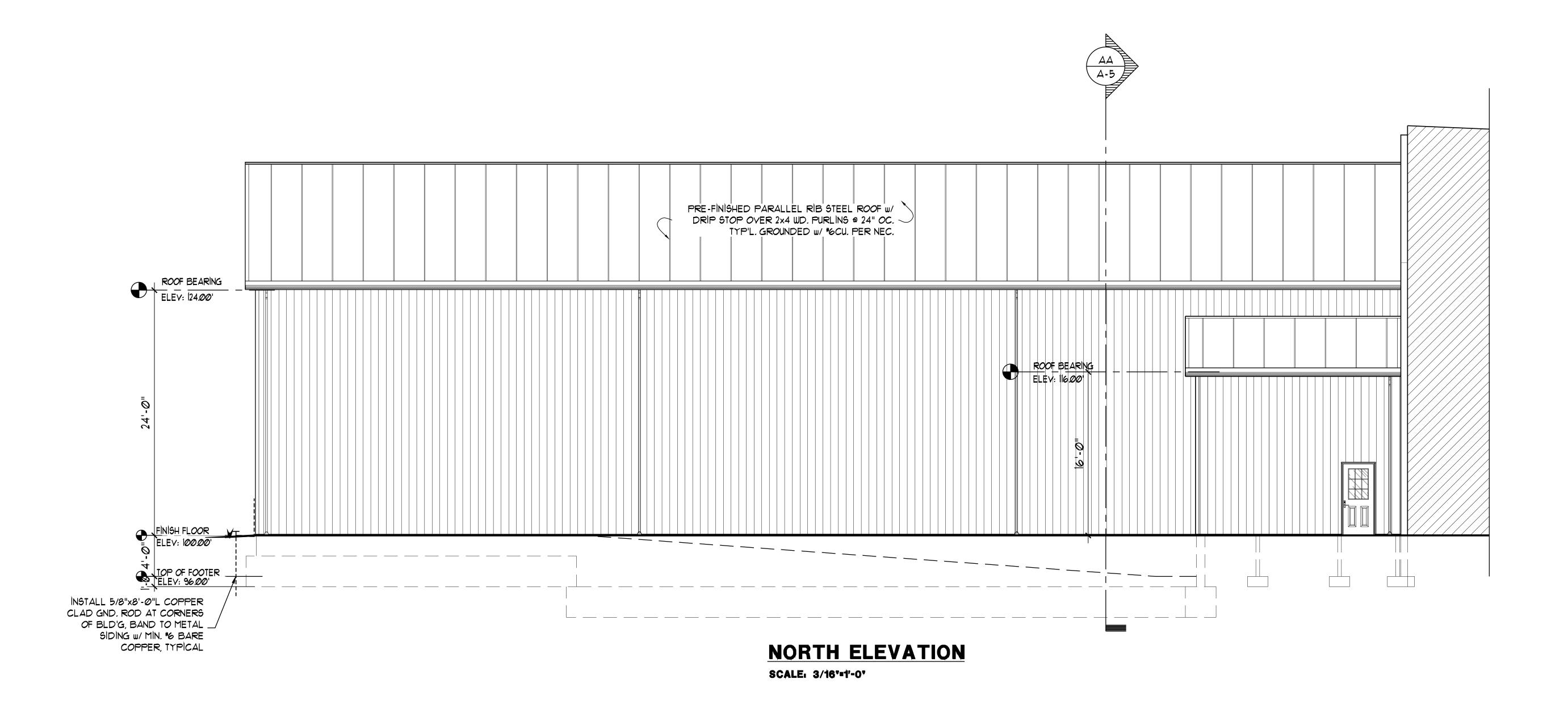
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A-3

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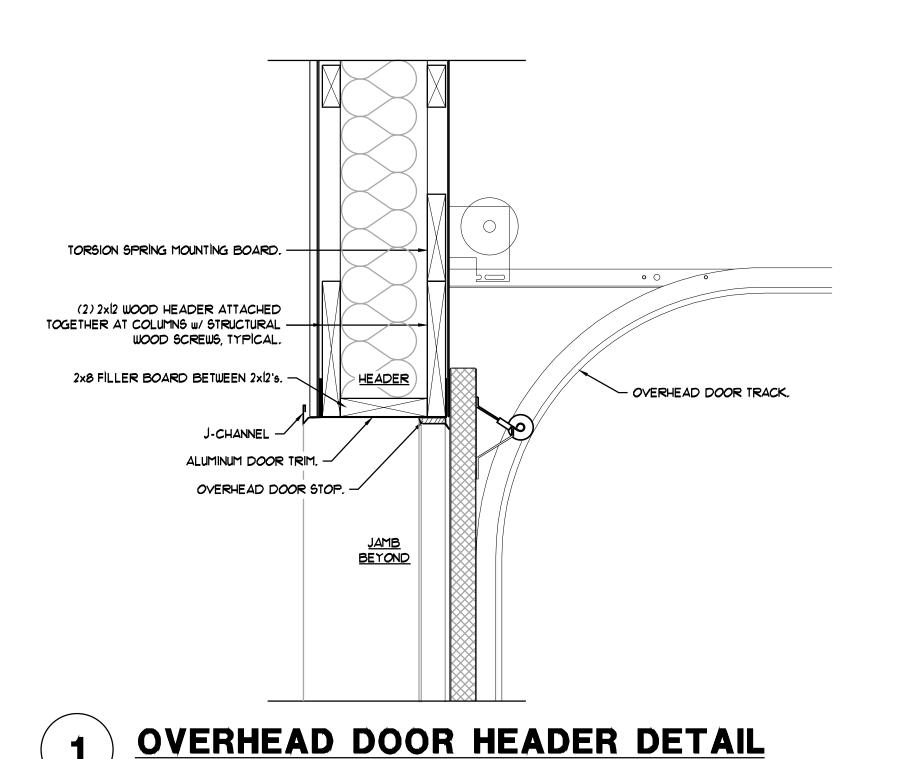
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PROPOSED BUILDING ADDITION TO MORH STAMPING

22038 FAIRGROUNDS ROAD
WELLINGTON, OHIO 44090



SCALE: 1-1/2"=1'-0"

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS DESCRIPTION OF BUILDING ELEMENT NUMBER AND TYPE OF FASTENER ATTACHMENT TYPE UPLIFT BLOCKING TO COLUMN (5) 16d HOT DIPPED GALVANIZED EACH BLOCK (2) 16d HOT DIPPED GALVANIZED SKIRT BOARD TO COLUMN FACE NAIL FACE NAIL WALL GIRT TO COLUMN (2) 16d HOT DIPPED GALVANIZED DIAGONAL AND/OR X-BRACING TO (2) 16d HOT DIPPED GALVANIZED TOE NAIL COLUMN DIAGONAL AND/OR X-BRACING TO (2) 16d HOT DIPPED GALVANIZED FACE NAIL SKIRT BOARD DIAGONAL AND/OR X-BRACING TO (2) 16d HOT DIPPED GALVANIZED FACE NAIL WALL GIRTS ROOF PURLIN TO TRUSS OR RAFTER (2) 16d FACE NAIL WITH SPAN OF 2'-0" OR 4'-0" (2) 1/2"Ø GRADE 5 BOLTS COLUMN TO PERMA COLUMN EACH COLUMN (4) 1/4"Ø x 3"L SDS SCREWS BRACKET #SWP63 (2) 1/2"Ø GRADE 5 BOLTS COLUMN TO PERMA COLUMN EACH COLUMN (8) 1/4"Ø x 3"L SDS SCREWS BRACKET #SWP84 (12) "GRK" RSS 3/8"x10" STRUCTURAL TRUSS CARRIER BOARDS TO EACH COLUMN SCREWS (VERIFY CARRIER SIZE) COLUMNS NOTE: ALL FASTENERS USED TO MEET ALL STRUCTURAL AND EXPOSURE REQUIREMENTS.

w/ VERTICAL "5 BARS @ 4'-0" O.C. 4 HORZ. "5 BARS TOP 4 BOT, TYP'L

3'-0"W x 3'-0"D CONC. - FOOTING w/ (3) #5 BARS

CONT. TYPICAL.

TRUSS SUPPLIER TO PROVIDE STAMPED TRUSS DIAGRAMS AND ALL OTHER PERTENT INFORMAION PRIOR TO THE INSTALLATION OF THEIR SAID PRODUCT.

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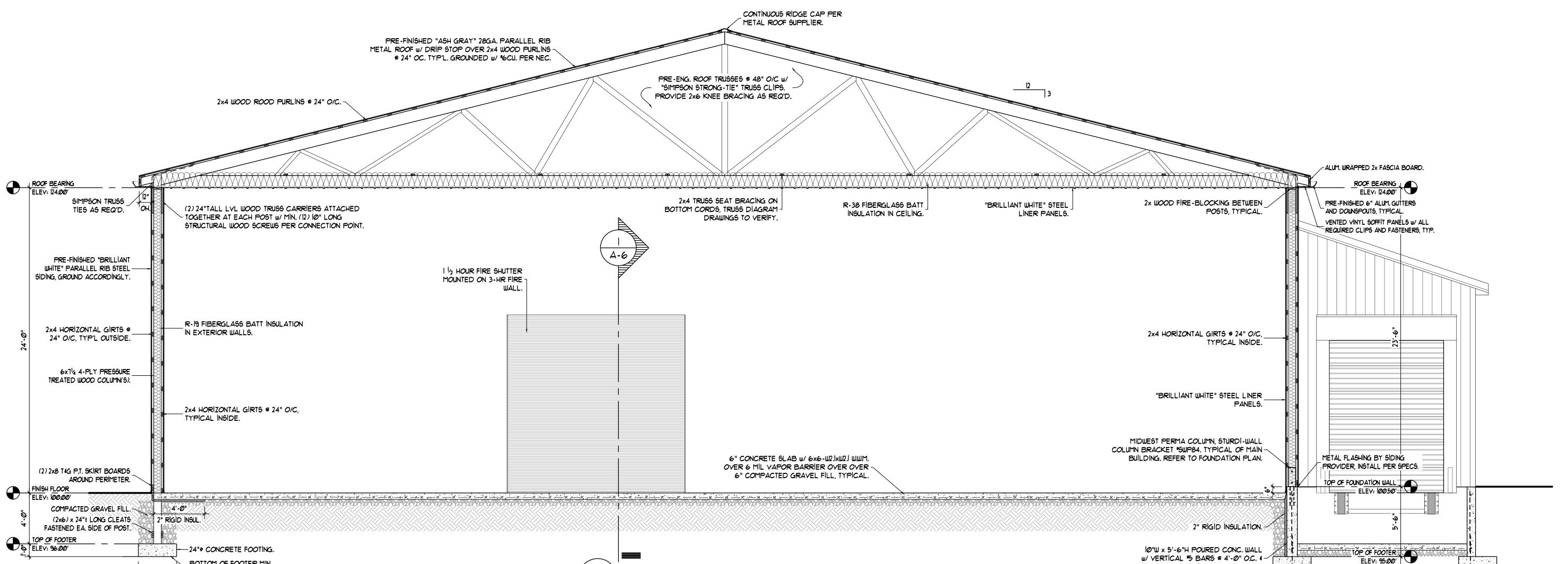
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PROJECT NO: 2024-137 DRAWN BY: CHECKED BY: TPM

A-5



BUILDING SECTION

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

BOTTOM OF FOOTER MIN.

48" BELOW GRADE.

3'-Ø"

BXUV.U904 - Fire-resistance Ratings - ANSI/UL 263

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction. • Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each Product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
 Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263 BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States <u>Design Criteria and Allowable Variances</u>

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U904

Bearing Wall Rating — 3 HR.
Nonbearing Wall Rating — 3 HR.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide <u>BXUV</u> or <u>BXUV7</u>

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

1. Concrete Blocks* — Various designs. Classification C-3 (3 hr). See Concrete Blocks category for list of eligible manufacturers

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to Classification if used. Attached to concrete bolcks (Item 1).

4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hr to Classification.

5. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "Energy/Shield Pro Wall Insulation", "Energy/Shield Pro 2 Wall Insulation", Energy/Shield CGF Pro and Energy/Shield Ply Pro

DUPONT DE NEMOURS, INC. — Type Thermax Sheathing. Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax III Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R^M ci Insulation, Thermax Butter Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board.

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Type "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

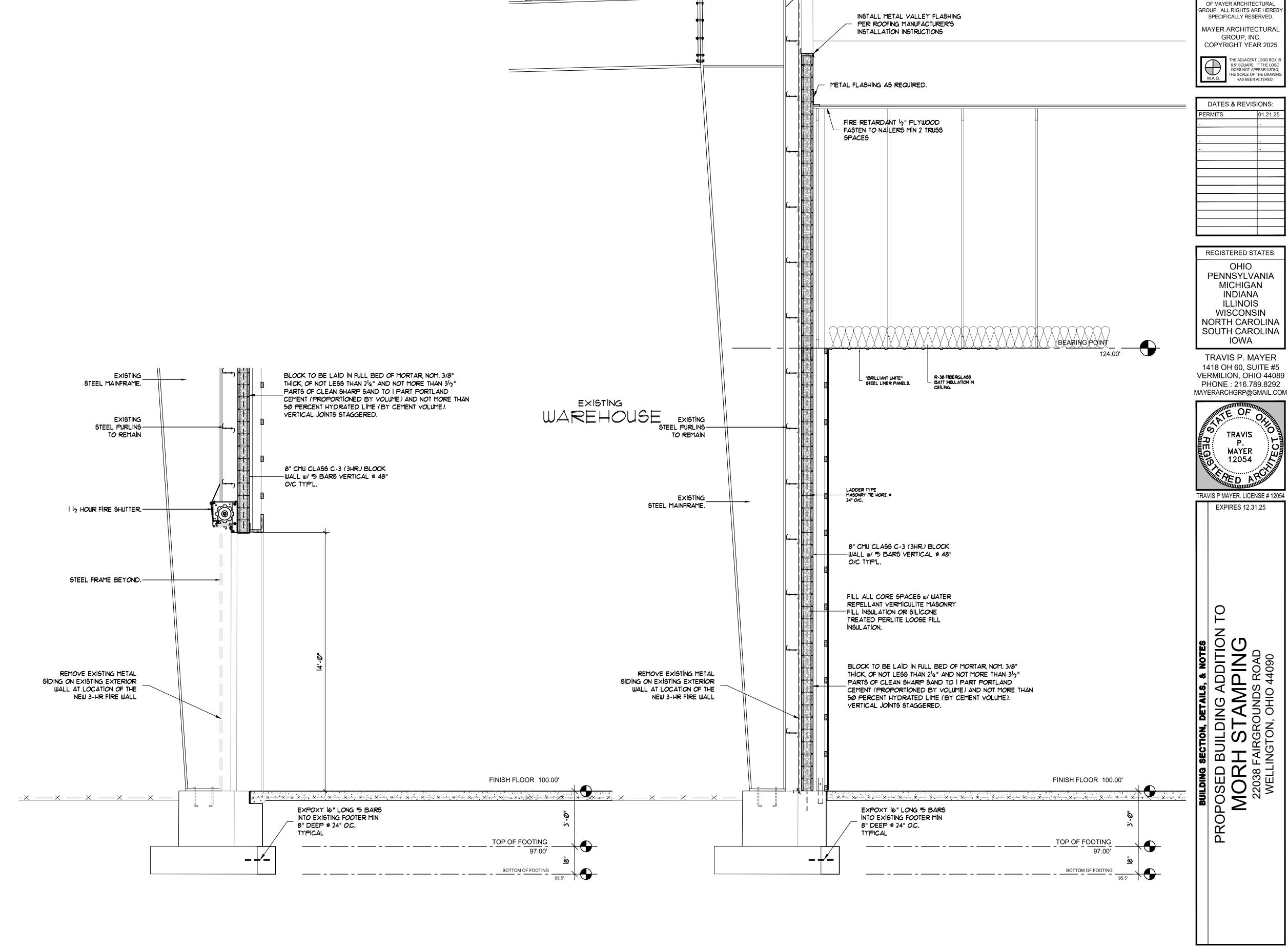
RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci," "ECOMAXci," TR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3", "Du

5A. Building Units* — As an alternate to Item 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEd", "ThermaBase-CI", "ECOMAXd FR Ply", "ECOMAXd Ply".

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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UL #U904
FIRE SHUTTER DETAIL SCALE: 3/8'=1'-0'

UL #U904
WALL SECTION 3HR. FIRE-RATED SCALE: 3/4"=1'-0"

PROJECT NO: 2024-137 DRAWN BY: CHECKED BY: TPM

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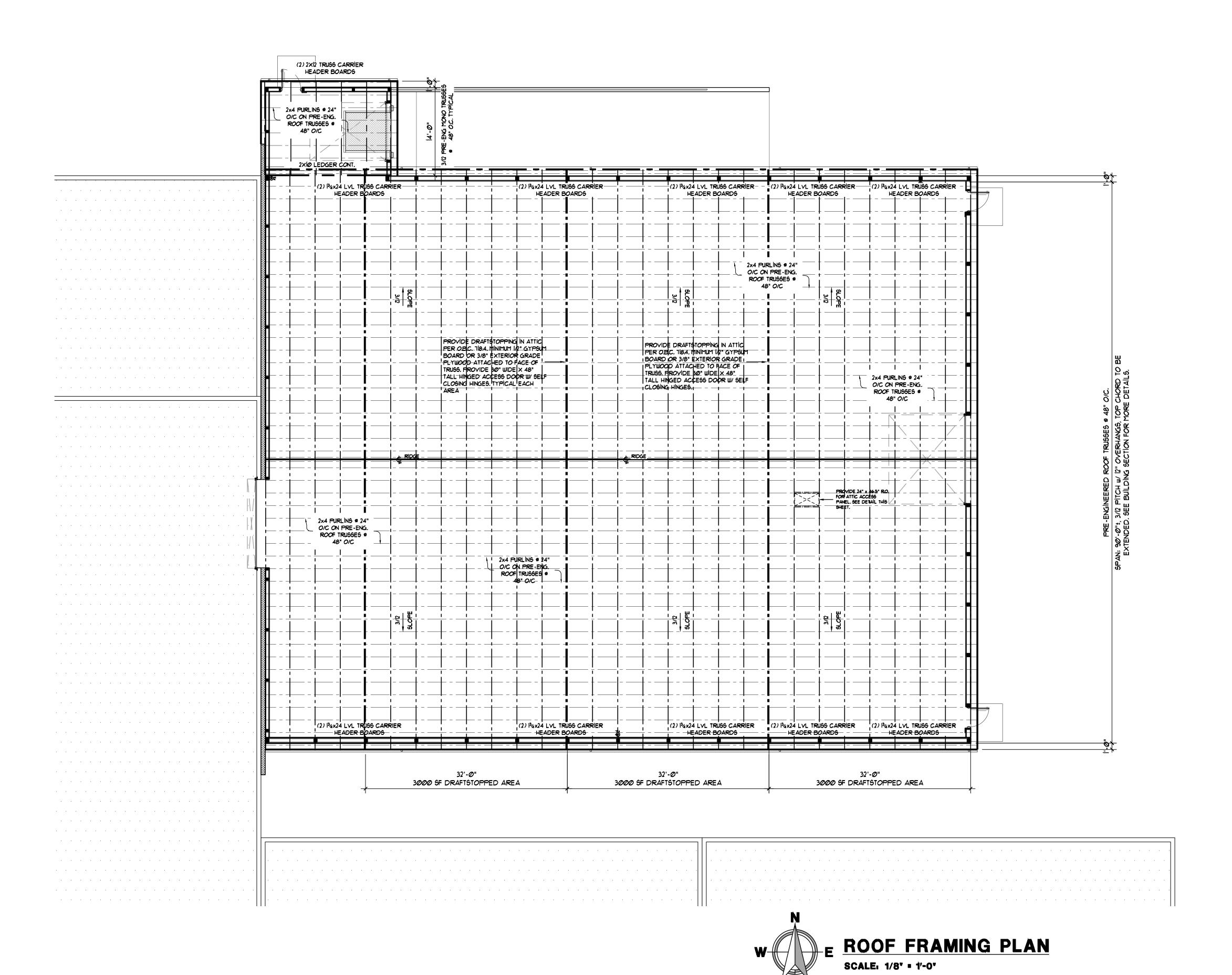
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A-5



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DATES & REVIS	IONS:
PERMITS	01.21.25

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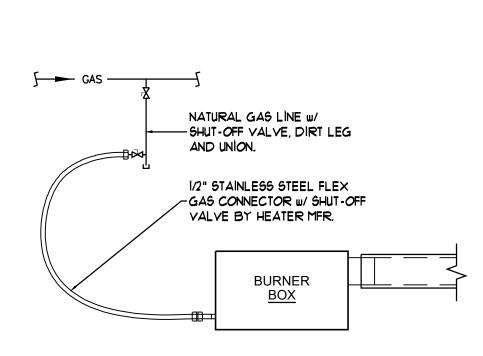
PROPOSED BUILDIN

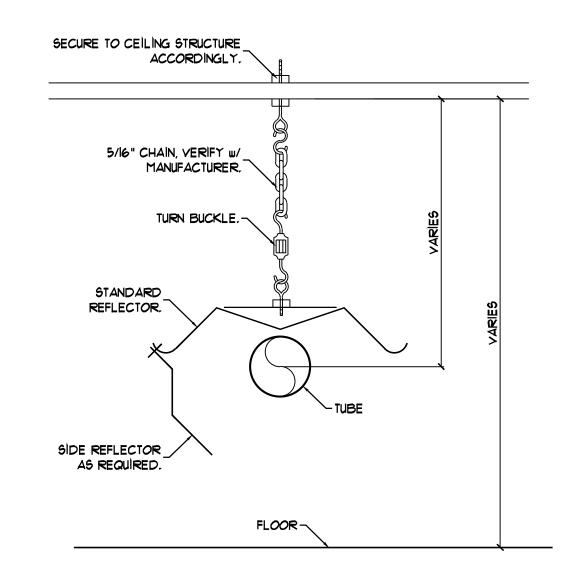
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WELLINGTON, O

PROJECT NO: 2024-137 DRAWN BY: TMK CHECKED BY: TPM

			E	XIST	ING	PC)WC	ER	PA	NEI	L "SF	P-1"			
				12	20/220 \	/OLT, (3PH, 4	W ELE	CTRIC	CAL SE	RVICE:				
	: SQUARE D OR EQUAL : 225 AMP.					FE		SOI LOCA	URCE:	225 A MDP BOTT EXIST	ОМ	DERS TO	REMAIN	LOCATION: SEE PI	LANS
CKT.		V	OLT - AMF	PS	BREA	BREAKER			BREAKER		VOLT - AMPS				СКТ.
NO.	BRANCH CIRCUIT	Α	В	С	POLE	AMP	WIRE	WIRE SIZE		POLE	Α	В	С	BRANCH CIRCUIT	NO.
1	WAREHOUSE LITES (W) ROW			1200	1P	20	#12	#12	20	1P			800	WAREHOUSE OUTLETS (S)	2
3	WAREHOUSE LITES (W) ROW		1200		1P	20	#12	#12	20	1P		800		WAREHOUSE OUTLETS (E)	4
5	TUBE HEATER - 1	400			1P	20	#12	#12	20	1P	800			WAREHOUSE OUTLETS (N)	6
7	TUBE HEATER - 2			400	1P	20	#12	#12	20	1P			450	OH DOOR RECEPT	8
9	DOCK DOOR OPERATOR		450		1P	20	#12								10
11	FIRE SHUTTER	450			1P	20	#12								12
13				-	1P	20	#12						800	(EX) CONFER. RM OUTLETS	14
15	UPSTAIRS A/C AIR HANDLER		2,000		3P	40	#10					800		(EX) N WL OFFICE OUTLETS	16
17		2,000									800			(EX) BREAKROOM OUTLETS	18
19				2,000	1			#12	20	1P			800	(EX) BREAKROOM OUTLETS	20
21		1,700				#12	20	1P		800		(EX) EAST OFFICE OUTLETS	22		
23	(EX) W WALL WELDER	1,700			3P	30	#10	#12	20	1P	800			RESTROOM OUTLETS	24
25				1,700	1			#12	20	1P			800	OFFICE LITES	26
27	(EX) 220V OUTLET		3000		0.0	40	110	#10	30	2P		2,300		(EX) A/C OFFICE	28
29	(LX) 220V OUTLET	3,000			2P	40	#8	#10	30	2	2,300			(EX) A/C OFFICE	30
31				-				#12	20	1P			700	LIGHT SWITCH RELAY & EM.	32
33			-					#12	20	1P		700		(EX) MAINTENANCE LITES	34
35	A/0 A/D	1,700			0.0	00	"40	#12	20	1P	700			(EX) MAINTENANCE LITES	36
37	A/C AIR HANDLER			1,700	2P	30	#10	#12	20	1P			600	OH DOOR (EX) NORTH	38
39	SHOP - EAST WALL OUTS		700		1P	20	#12	#12	20	1P		600		CO-RAY VAC MAINTENANCE	40
41	SHOP - WEST WALL OUTS	700			1P	20	#12							SPARE	42
	CIRCUIT TOTALS	9,950	9,050	7,000			- TO	TAL -			5,400 6,000 4,950			CIRCUIT TOTALS	
	VOLT - AMP TOTAL	\	OLT-AMP	S							VOLT-AMPS				
	BUS A: 15,350 V.A. BUS B: 15,050 V.A. BUS C: 11,950 V.A. FOTAL: 42,350 V.A.	COMPA ALL WIRI	ANY REQUIR NG TO BE FI	EMENTS. EL RST GRADE	EC. CON	TRACTC	OR TO CO O VOLTS OT EXCE	OORDINA , COMPL EED THE	ATE EQU YING W CAPAC	JIPMENT ARTICLE ITY RATIN	RATINGS W 310 N.E.C, A NGS AS SCH	MENT & POW ITH POWER I AND NO SMA EDULED IN T G CIRCUIT PR	UTILITY CO. LLER THAN ABLES 310,	TOTAL LINE AMPS TO BE TOTAL AMPS 128.90	







RADIANT TUBE HEATER
GAS CONNECTION DETAIL SCALE: N.T.S.



TUBE HEATER DETAIL SCALE: N.T.S.

ELECTRICAL SYMBOLS DISCONNECT SWITCH, EX: 30 INDICATES AMPACITY,

20 AMP. 120 VOLT NEMA 5-20R GROUNDING TYPE DUPLEX RECEPTACLE w/ SELF-CONTAINED GROUND FAULT INTERRUPTIONS PROVISIONS. M.H. 18" TO CENTER UNLESS OTHERWISE NOTED. DEDICATED 208 VOLT RECEPTACLE. SIZE BREAKER AND WIRE ACCORDINGLY. M.H. 18" TO CENTER UNLESS OTHERWISE NOTED. WEATHERPROOF OUTLET w/ G.F.I. M.H. 18" TO CENTER UNLESS OTHERWISE NOTED.

ISOLATED GROUND DUPLEX RECEPTACLE OUTLET M.H. 18" TO CENTER UNLESS OTHERWISE NOTED. DUPLEX RECEPTACLE NEMA 5-20R, 18" A.F.F.TO CENTER OF BOX. UNLESS NOTED OTHERWISE.

M.H. 18" TO CENTER UNLESS OTHERWISE NOTED. 4-PLEX 20 AMP 120 VOLT 2 POLE 3 WIRE RECEPTACLE MOUNTED IN COMMON BOX WITH COMMON 2 GANG PLATE. M.H. 18" TO CENTER UNLESS OTHERWISE NOTED.

4-PLEX 20 AMP. 120 VOLT NEMA 5-20R GROUND'G TYPE DUPLEX RECEPTACLES W/ SELF-CONTAINED GROUND FAULT INTERRUPTIONS PROVISIONS. MT. IN COMMON BOX w/ COMMON 2 GANG PLATE. M.H. 18" TO CENTER UNLESS OTHERWISE NOTED. COMBO DUPLEX RECEPTACLE NEMA 5-20R w/ (2) USB PLUGS 42" A.F.F.TO CENTER OF BOX. U.N.O.

JUNCTION BOX FOR SIGNAGE, SIZE ACCORDINGLY. JUNCTION BOX, SIZE ACCORDINGLY. LINE VOLTAGE THERMOSTAT SPECIAL VOLTAGE OR AMPERAGE, SIZE ACCORDINGLY.

BRANCH CIRCUIT PANELBOARD CEILING OR WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY LIGHTING SENSOR. CEILING MOUNTED DAYLIGHT SENSOR, CONNECT TO WALL

3 INDICATES 3 POLE, 3R INDICATES NEMA 3R ENCLOSURE, N INDICATES NON-FUSED 3/4"DIA, x 10'-0"LONG COPPER GROUND ROD, SEE GROUNDING DETAIL AND/OR SINGLE LINE DIAGRAM FOR WIRE SIZES, TYPICAL. HOMERUN TO PANELBOARD, 3/4" MINIMUM. LETTER INDICATES PANEL, NUMBERS INDICATE BRANCH CIRCUIT CONDUIT, 1/2" MINIMUM, CONCEALED BELOW SLAB, IN CLGS., OR WALLS. SLASH MARKS INDICATE NO. OF CONDUCTORS #12 AWG. UNLESS NOTED OTHERWISE. CABLE TERMINAL OUTLET MTD. @ 18" AFF, U.N.O. **—** TELE/FAX OUTLET MTD. @ 18" AFF, U.N.O. STUB 3/4"C. INTO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE BLANK COVER PLATE. "2D" = DOUBLE TELE/COMPUTER OUTLET MTD. @ 18" AFF, U.N.O. STUB 3/4"C. INTO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE BLANK COVER PLATE. "2D" = DOUBLE GND. GROUND M.H. MOUNTING HEIGHT (FROM FINISH FLOOR) WP. WEATHERPROOF A.F.F. ABOVE FINISHED FLOOR EX. **EXISTING** TIME CLOCK

YD/3D/4D

20 AMP 120/277 VOLT SINGLE POLE TOGGLE SWITCH 20 AMP 120/277 VOLT 3 OR 4 WAY TOGGLE SWITCH

20 AMP 120/277 VOLT OCCUPANCY SENSOR SWITCH

20 AMP 120/277 VOLT MANUAL OVERRIDE SWITCH FOR TIME CLOCK

20 AMP 120/277 VOLT DIMMER SWITCH / 3 OR 4 WAY DIMMER

ELECTRICAL POWER GENERAL NOTES

- REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION & REQUIREMENTS.
- 2. ALL EXTERIOR DISCONNECTS SHALL BE NEMA 3R RATED.
- 3. EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF TYPE.
- 4. ALL ELECTRICAL LIGHT FIXTURES MAY BE SUBSTITUTED BY APPROVED EQUALS. VERIFY LIGHT FIXTURES WITH OWNER BEFORE
- EMERGENCY LIGHTING SHALL BE INSTALLED SO THAT THE FAILURE OF ANY INDIVIDUAL LIGHTING ELEMENT, SUCH AS THE BURNING OUT OF A LIGHT BULB, CAN NOT LEAVE IN DARKNESS ANY SPACE THAT REQUIRES EMERGENCY ILLUMINATION. THIS NOTES HOLDS TRUE FOR ALL EMERGENCY AND EXIT LIGHTING DEVICES.
- 6. ALL CONDUCTORS TO BE COPPER THHN. ALL CONDUCTORS TO BE #12 THHN HOT, NEUT, GND UNLESS NOTED OTHERWISE.

SWITCHING PER MANUFACTURERS INSTALL DIRECTIONS

- 8. ALL ELECTRICAL SHALL BE INSTALLED PER THE LATEST NATIONAL ELECTRICAL CODE REQUIREMENTS.
- 9. ALL RECEPTACLES LOCATED WITHIN 6'-0" OF ANY SINK EDGE IS REQUIRED BY CODE TO HAVE GFIC PROTECTION.
- 10. ALL ELECTRICAL CONDUCTORS IN WET OR DAMP LOCATIONS SHALL BE INSTALLED PER NEC 310.10.
- 11. ALL SWITCHES AND CONTROLS SHALL BE MOUNTED AT 48" AFF. 12. ALL 15 & 20 AMP RECEPTACLES INSTALLED IN BATHROOM TYPE AREAS SHALL BE GROUND FAULT CIRCUIT INTERRUPTER PROTECTED.
- 13. ELECTRICIAN TO USE THEIR OWN DISCRETION ON PANEL LAYOUT.
- 14. RECEPTACLE SHALL BE SPACED PER NEC 210.60
- 15. ELECTRICAL DEVICES SHALL BE LISTED & LABELED FOR THE APPLICATION IN WHICH THEY ARE INSTALLED. (NEC 110.3) 16. ALL 125-VOLT. 1 Ph. 15 AND 20 AMP RECEPTACLES IN KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION
- COMPLYING WITH NEC 210.8 (B) (2) 17. FIELD VERIFY EXACT LOCATION OF EQUIPMENT WITH ASSOCIATED EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. EXACT ELECTRICAL REQUIREMENTS SHALL BE VERIFIED IN THE FIELD WITH THE EQUIPMENT'S NAMEPLATE DATA. E.C. SHALL MAKE APPROPRIATE ADJUSTMENTS TO ASSOCIATED BREAKERS/DISCONNECT SWITCHES, BRANCH CIRCUIT WIRING, AND SIZE FUSES PER MANUFACTURER'S
- 18. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. E.C. SHALL PROVIDE A TYPED PANELBOARD SCHEDULE AND INSTALL IT ON INSIDE COVER OF EACH PANEL
- 19. ANY DEVICES THAT ARE TO BE INSTALLED BACK-TO-BACK IN A COMMON WALL SHALL BE SEPARATED BY 8" MINIMUM TO MINIMIZE SOUND
- 20. DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED
- FOR FAILURE TO COMPLY. 21. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING E.C. SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%).
- 22. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR. NEUTRALS SHALL NOT BE SHARED PER 2017 NEC
- 23. ALL AREAS THAT HAVE TOGGLE-TYPE LIGHT SWITCHES AND RECEPTACLES MOUNTED BESIDE DOOR OPENINGS AT 46" TO CENTERLINE MAY BE FURNISHED WITH A COMMON BACKBOX WITH BARRIERS BETWEEN THE DEVICES AND A COMMON FACEPLATE PER NEC 404.8(B).

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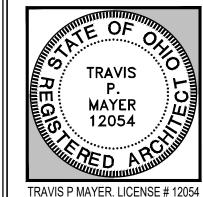
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DATES & REVISIONS: PERMITS 01.21.25

REGISTERED STATES:

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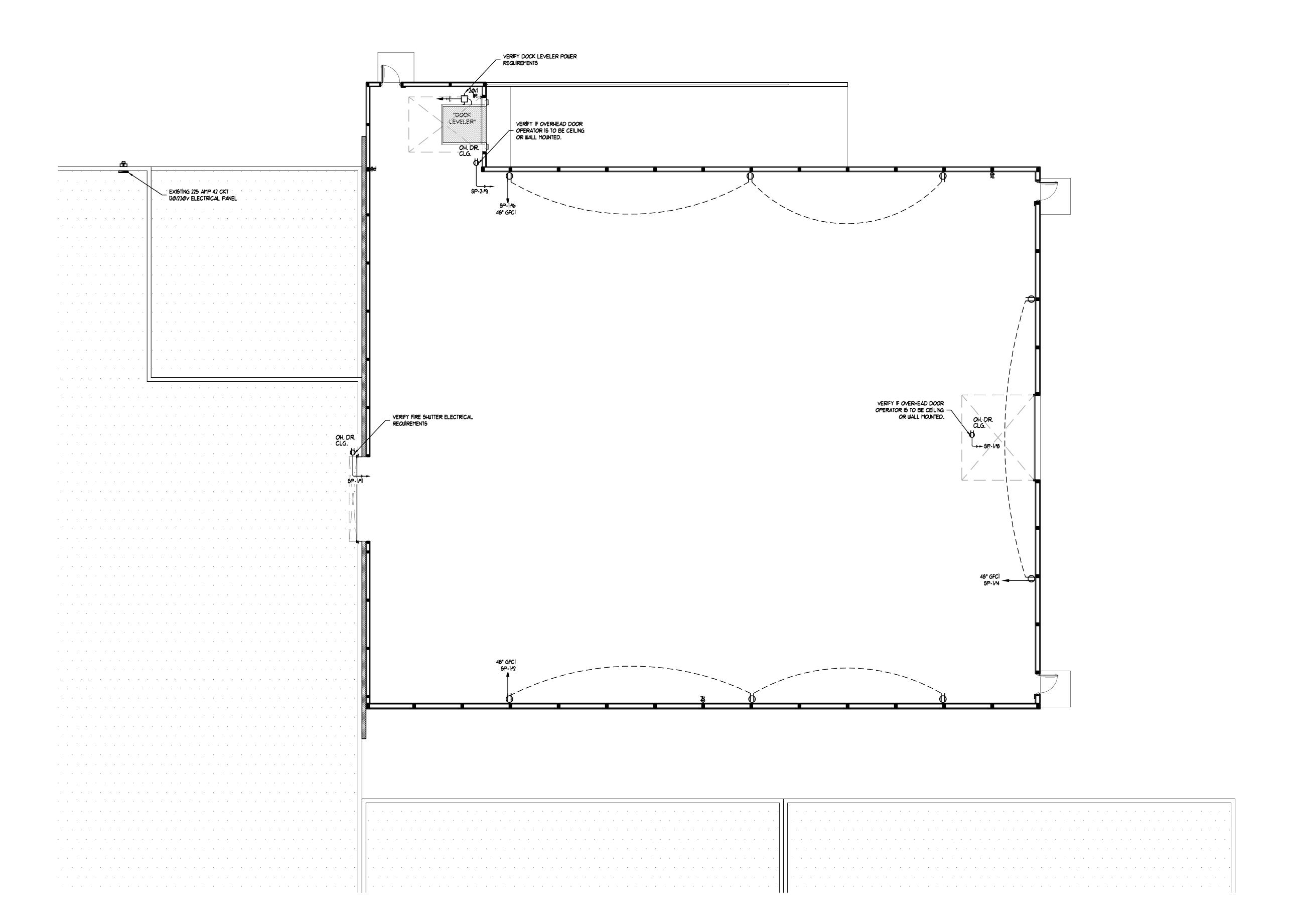


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PROP

PROJECT NO: 2024-137 DRAWN BY: CHECKED BY: TPM

E-1



ELECTRICAL POWER PLAN SCALE: 1/8'-1'-0'

ELECTRICAL CODED NOTES

- RESTROOM EXHAUST FAN INTERLOCKED TO THE LIGHTING CONTROL SWITCHES/SENSORS. PROVIDE RELAY AS REQUIRED. INSTALL PER MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL PLANS FOR LOCATION.

- E.C. TO CONNECT ALL EXIT AND EMERGENCY LIGHTING TO LOCAL CIRCUIT AND AHEAD OF ALL LOCAL SWITCHING.
- WIRE AS NIGHT LIGHT AHEAD OF LOCAL SWITCHING AS REQUIRED.
- (5) OCCUPANCY SENSOR (WALL BOX, 120V, DUAL-TECHNOLOGY TYPE) ACUITY: #WSX PDT D WH

PROJECT NO: 2024-137 CHECKED BY: TPM

ARCHITECTS • DESIGNERS • PLANNERS

E-2

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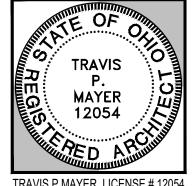
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EXPIRES 12.31.25

TUBE HEATER EQUIPMENT

HEATING SYSTEM: TUBE HEATERS

ARCHITECTS • DESIGNERS • PLANNERS

TH-1: SOLARONICS, TRUE DUAL UNIT: #MTS-125/95N60, 60'-0" TUBE LENGTH HEATING CAPACITY: HIGH = 175,000 MBTU / LOW = 150,000 MBTU GAS TYPE, SIZE, PRESSURE: NATURAL GAS, 1/2"Ø, 7.0 WC MINIMUM PRESSURE ELECTRICAL: 120/1/60 POWER, 1.3 AMPS, THREE-PRONG MOLDED PLUG NOTES: FURNISH & INSTALL WALL MOUNTED LOW VOLTAGE THERMOSTAT. INSTALL w/ MANUFACTURERS RECOMMENDED CLEARANCES. INSTALL MANUFACTURERS HEAT SHEILDING TO PROTECT ALL OF THE SURROUNDING SURFACES.

ELECTRICAL LIGHTING GENERAL NOTES

ALL WORK MUST COMPLY WITH NEC, NFPA, LIFE SAFETY AND LOCAL APPLICABLE CODES. PROVIDE A DISCONNECTING MEANS FOR EACH MULTI-WIRE LIGHTING BRANCH CIRCUIT IN ACCORDANCE w/ NEC 410.130(G)(1) THRU (3), DISCONNECTING MEANS SHALL BE LOCATED AT POINT WHERE CIRCUIT ORIGINATES AND SHALL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS.

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. 4. VERIFY EXACT CEILING CONSTRUCTION w/ ARCH'L REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES w/ ALL NECESSARY MOUNTING HARDWARE.

COORDINATE EXACT LIGHTING FIXTURE LOCATIONS w/ MECHANICAL EQUIPMENT AND DUCT WORK PRIOR TO ROUGH-IN. 6. ALL RECESSED FIXTURES SHALL BE PROVIDED w/ ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY CURRENTLY ACCEPTED EDITION OF ALL APPLICABLE NATIONAL, STATE, AND CITY CODES, ORDINANCES, AND AMENDMENTS. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED w/ A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.

8. ALL FLUORESCENT DIMMING ZONES/CHANNELS SHALL BE PROVIDED w/ 3 LINE VOLTAGE CONDUCTORS (NEUTRAL, DIMMED HOT. SWITCHED HOT) OR 2 LINE VOLTAGE CONDUCTORS/2 CONTROL CONDUCTORS AS REQUIRED BY THE CONTROL/BALLAST TYPE. 9. ALL EMERGENCY BATTERY PACK FIXTURES AND NITE LIGHT FIXTURES SHALL BE PROVIDED w/ AN UNSWITCHED CONSTANT

10. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS. 11. PROVIDE UNIFORM DUAL LEVEL SWITCHING OF LIGHTS I N ROOMS WHERE TWO SWITCHES ARE SHOWN CONNECTED

TOGETHER. G.C. TO PROVIDE ALL NECESSARY CONDUCTORS FOR ALL DUAL SWITCHING APPLICATIONS AS SHOWN ON PLAN. 12. CONTRACTOR TO PROVIDE ALL NECESSARY TRAVELER CONDUCTORS FOR ALL 3 AND 4 WAY SWITCHING APPLICATIONS. 13. G.C. SHALL VERIFY CEILING FIRE RATING WITH ARCHITECT, AND BOX OR TENT ALL RECESSED LIGHT FIXTURES, IF

REQUIRED, TO MAINTAIN CEILING FIRE RATING. 14. ALL ELECTRICAL LIGHT FIXTURES MAY BE SUBSTITUTED BY APPROVED EQUALS. VERIFY LIGHT FIXTURES WITH OWNER

BEFORE ORDERING. 15. EMERGENCY LIGHTING SHALL BE INSTALLED SO THAT THE FAILURE OF ANY INDIVIDUAL LIGHTING ELEMENT, SUCH AS THE BURNING OUT OF A LIGHT BULB, CAN NOT LEAVE IN DARKNESS ANY SPACE THAT REQUIRES EMERGENCY ILLUMINATION.

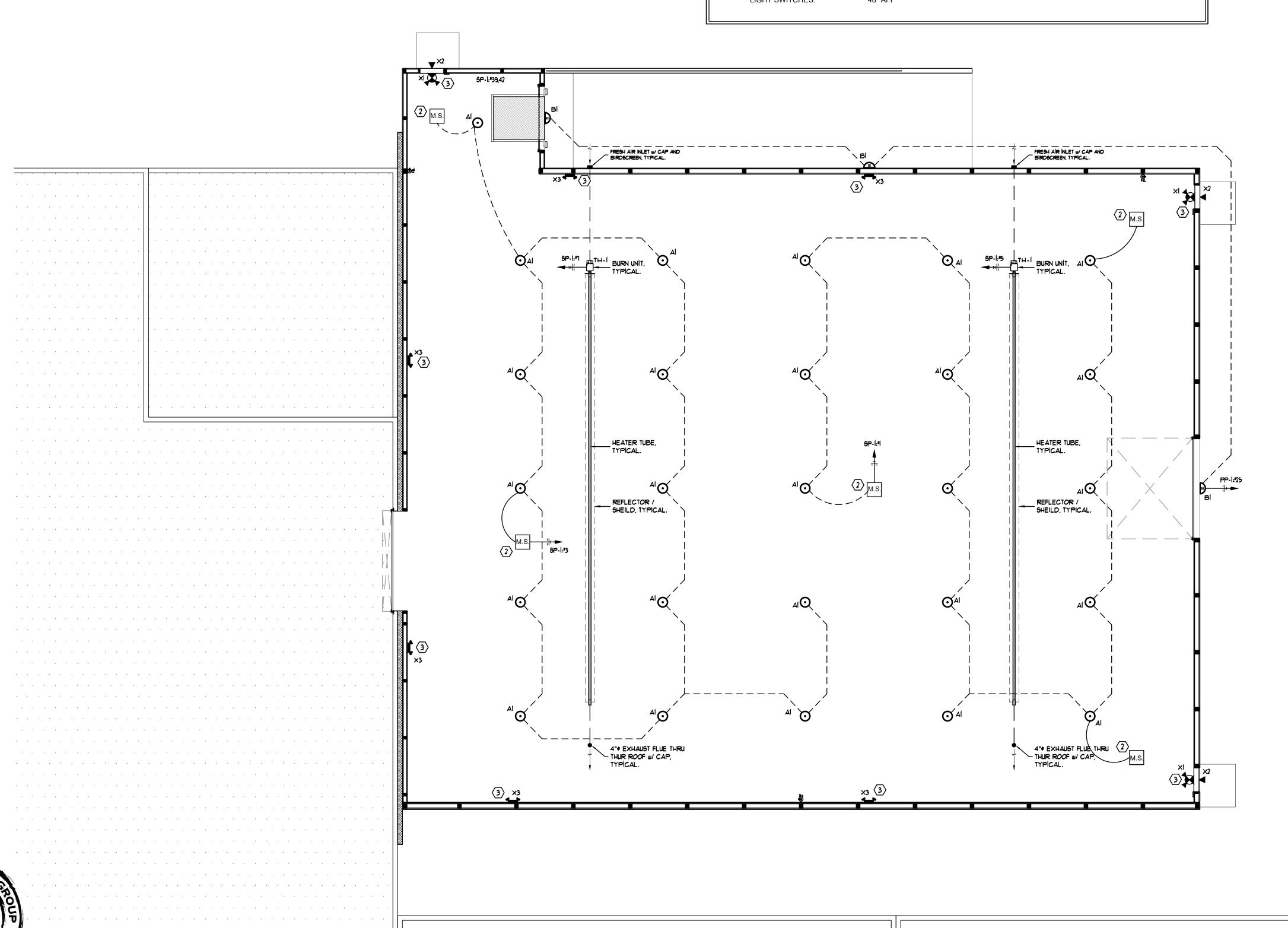
THIS NOTES HOLDS TRUE FOR ALL EMERGENCY AND EXIT LIGHTING DEVICES. 16. INSTALLATION HEIGHTS ABOVE FINISH FLOOR TO CENTERLINE UNLESS NOTED OTHERWISE:

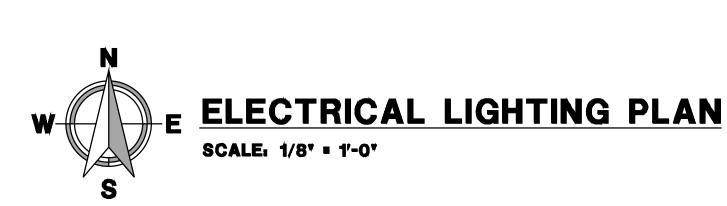
HOT CONNECTION TO THE CHARGING LEAD.

WALL HUNG TELEPHONE: 56" AFF RECEPTACLES: TELEPHONE JACKS: 16" AFF TV / ETHERNET JACKS: 16" AFF 48" AFF LIGHT SWITCHES:

		LIGHT FIXTURE	SCHEDU	JLE		
TYPE	SYMBOL	DESCRIPTION	MANU.	REFERENCE CATALOG #	LAMP	VC
A1	\odot	LED HIGH-BAY CEILING LIGHT FIXTURE. CABLE / CHAIN HUNG FROM UNISTRUT TO ROOF STRUCTURE. LUMENS = 21,750 FIXTURE WATTAGE = 150 WATTS	LITHONIA OR EQUAL	LED HIGH-BAY: #ML-HB05B-150WRBCGD1-BH50 DOME: #ML-90D-PCDL	(1) 150watt LED -	MV
B-1		LED SURFACE MOUNTED WALL PACK w/ PHOTO-EYE. LUMENS: 5,750 FIXTURE WATTAGE: 54 WATTS	CREE OR EQUAL	EXTERIOR WALL PACK: #E-WLT05B-F40Z -	(1) 54watt LED -	120
X1		COMBINATION EXIT/EMERGENCY LIGHT. UNIVERSAL FACE, RED LETTER, N. CAD BATTERY, REMOTE CAPACITY. FIXTURE WATTAGE = 3.56 WATTS	PROGRESS LIGHTING	EXIT / EMERGENCY: #PECUE-UR-30-RC -	LED - -	MV
X2	•	WALL OR CEILING MOUNTED, REMOTE DUAL HEAD, WET LOCATION UL LISTED, EMERGENCY EXIT DISCHARGE LIGHT POWERED FROM FIXTURE "X1". FIXTURE WATTAGE = 2 WATTS	PROGRESS LIGHTING	REMOTE HEAD: #PERHC-DB-OD-30	LED - -	MV
ХЗ	~	WALL OR CEILING MOUNTED, DUAL HEAD, EMERGENCY LIGHT FIXTURE w/ SEALED BATTERY. FIXTURE WATTAGE = 0.56 WATTS	PROGRESS LIGHTING	EMERGENCY LIGHTING: #PE2EU-30 -	LED - -	MV

VOLTS MVOLT 20-277 **IVOLT IVOLT** MVOLT





ELECTRICAL LIGHTING CODED NOTES

- RESTROOM EXHAUST FAN INTERLOCKED TO THE LIGHTING CONTROL SWITCHES/SENSORS.

 PROVIDE RELAY AS REQUIRED. INSTALL PER MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL PLANS FOR LOCATION.
- E.C. TO CONNECT ALL EXIT AND EMERGENCY LIGHTING TO LOCAL CIRCUIT AND AHEAD OF ALL LOCAL SWITCHING.
- (4) WIRE AS NIGHT LIGHT AHEAD OF LOCAL SWITCHING AS REQUIRED.
- (5) OCCUPANCY SENSOR (WALL BOX, 120V, DUAL-TECHNOLOGY TYPE) ACUITY: #WSX PDT D WH

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HE ADJACENT LOGO BOX

0.5" SQUARE. IF THE LOGO

DOES NOT APPEAR 0.5"SO

REGISTERED STATES: OHIO PENNSYLVANIA **MICHIGAN** INDIANA ILLINOIS WISCONSIN NORTH CAROLINA SOUTH CAROLINA IOWA

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E-3