

TOKYO GRILLE

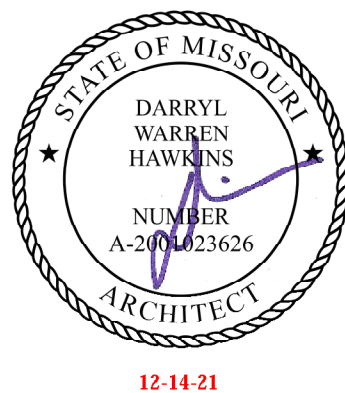
3528 S.W. MARKET ST. LEE'S SUMMIT, 64082

date: 10-21-21

REVISIONS:

INNOVATIVE DESIGN & RENOVATION

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12-14-21

CODE REVIEW

International Building Code, 2018 Edition
International Mechanical Code, 2018 Edition
International Energy Conservation Code, 2018 Edition
International Fuel Gas Code, 2018 Edition
International Plumbing Code, 2018 Edition
National Electrical Code, 2017 Edition
ICC/ANSI-A117.1 Providing Accessibility and Usability for Physically Handicapped People, 2009 Edition

BUILDING OCCUPANCY	GROUP B
BUILDING HEIGHT	15 ft.
STORIES	1
TENANT AREA	1430 SQ.FT
CONSTRUCTION TYPE	V-B (TABLE 503)
FIRE RESISTIVE REQUIREMENTS (TABLE 601)	STRUCTURAL FRAME 0 HRS BEARING WALLS EXTERIOR 0 HRS NONBEARING WALLS 0 HRS FLOOR CONSTRUCTION 0 HRS ROOF CONSTRUCTION 0 HRS
OCCUPANT LOAD: (TABLE 1004.1.1)	DINING 393 SF/15 SF/OCC. = 26 OCCUPANTS KITCHEN 552 SF/200 SF/OCC. = 3 OCCUPANTS TOTAL = 29
REQUIRED EXITS	1 REQUIRED 2 SUPPLIED
SPRINKLER SYS:	SPRINKLED

SHEET INDEX

1. COVER
2. FLOOR PLAN
3. PLUMBING FLOOR PLAN
4. RISER DIAGRAM
6. LIGHTING FLOOR PLAN
7. POWER FLOOR PLAN
8. MECHANICAL FLOOR PLAN

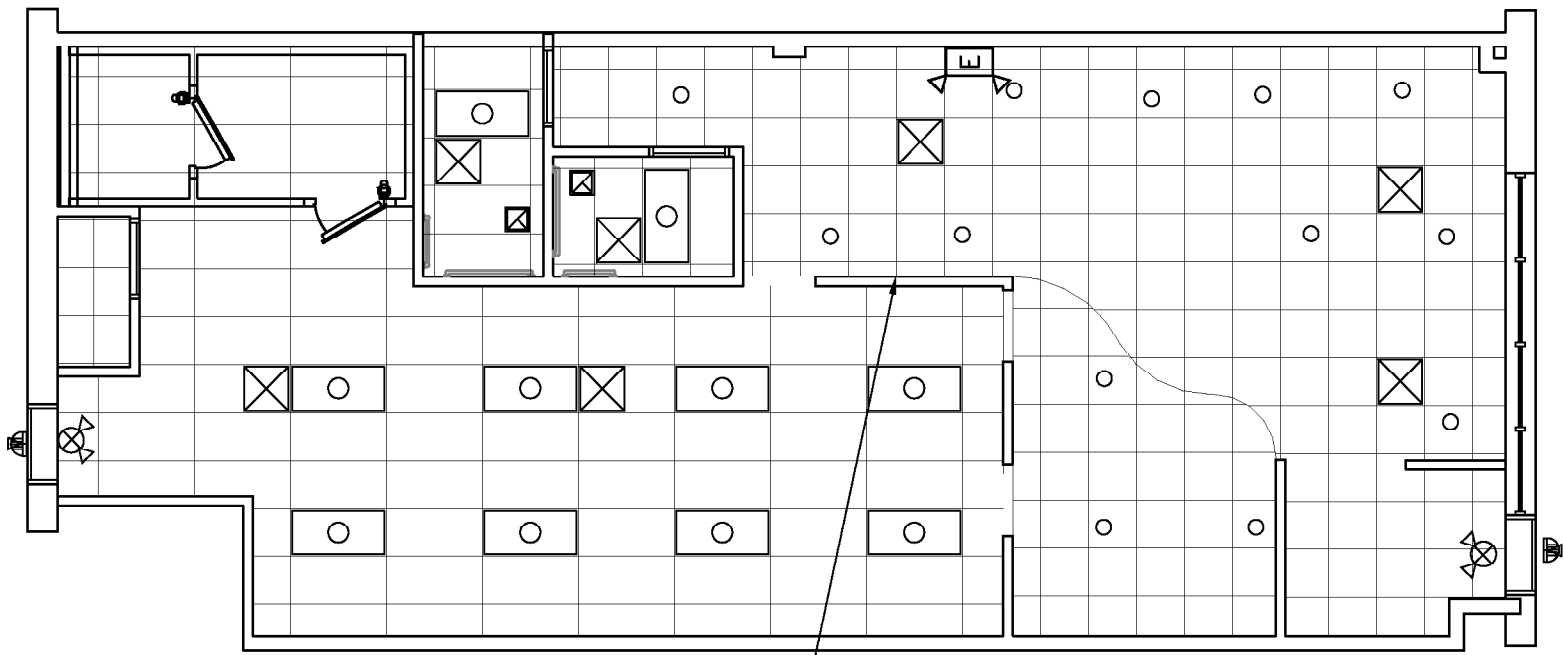


VICINITY MAP



FRONT ELEVATION

SUPPLIED AND INSTALLED BY GC		CEILING SYMBOL LEGEND
SYMBOL	DESCRIPTION	
	ACOUSTICAL CEILING TILE SEE FINISH SCHEDULE	
	RECESSED LIGHT FIXTURE	
	HANGING FIXTURE	
	2X4 FLOURESCENT FIXTURE	
	SUPPLY AIR DIFFUSERS- FINISH TO MATCH ADJACENT CEILING TILE. SEE MECHANICAL DWGS.	
	RETURN AIR DIFFUSERS- FINISH TO MATCH ADJACENT CEILING TILE. SEE MECHANICAL DWGS.	
	EMERGENCY LIGHT SEE ELECTRICAL DWGS.	
	EXTERIOR EMERGENCY LIGHT SEE ELECTRICAL DWGS.	
	EXIT LIGHT/EMERGENCY LIGHT. SEE ELECTRICAL DWGS.	
	EXHAUST FAN	



REFLETED CEILING PLAN

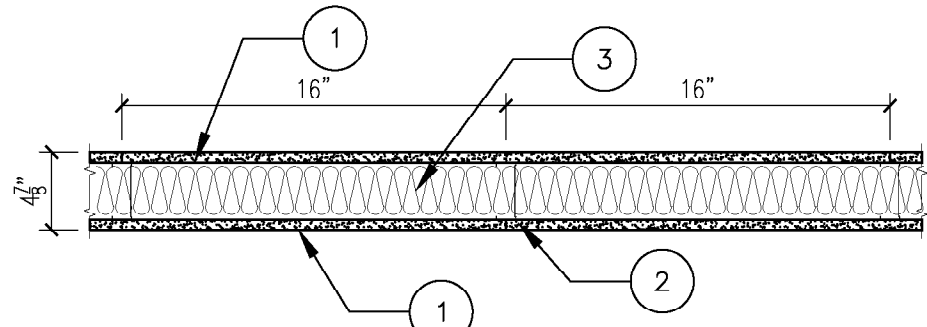
Scale 1/8"=1'-0"

INSTALL OUTLET WITHIN 25' OF MECHANICAL EQUIPMENT ON THE SAME LEVEL.
THE OUTLET MUST BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTION MEANS

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR	WALLS				CEILING		NOTES	
			N	S	E	W	MATL	HEIGHT		
101	DINING	VNYL	GYP.BD	GYP.BD	GYP.BD	GYP.BD	2X4	8'-6"	---	
102	KITCHEN	TILE	TILE	TILE	FRP	TILE	2X4	8'-6"	---	
103	BATH	TILE	TILE 4'A.F.F.	TILE 4' A.F.F.	TILE 4' A.F.F.	TILE 4' A.F.F.	2X4	8'-6"	---	
104	BATH	TILE	TILE 4'A.F.F.	TILE 4' A.F.F.	TILE 4' A.F.F.	TILE 4' A.F.F.	2X4	8'-6"	---	
105	ELEC.	EXIST'G	EXIST'G	EXIST'G	GYP. BD	EXIST'G	2X4	8'-6"	---	
106	ENTRY	VNYL	GYP.BD	GLASS	GLASS	GLASS	2X2	8'-6"	---	

DOOR AND FRAME SCHEDULE

MARK	DOOR			MATL	FRAME	NOTES
	WD	SIZE	THK			
01	3'-0"	6'-8"	1 3/4"	EXIST'G	EXIST'G	---
02	3'-0"	6'-8"	1 3/4"	WD	WD	Closure
03	3'-0"	6'-8"	1 3/4"	WD	WD	Closure
04	3'-0"	6'-8"	1 3/4"	EXIST'G	EXIST'G	---
05	3'-0"	6'-8"	1 3/4"	EXIST'G	EXIST'G	---
06	3'-0"	6'-8"	1 3/4"	GLASS	METAL	Closure

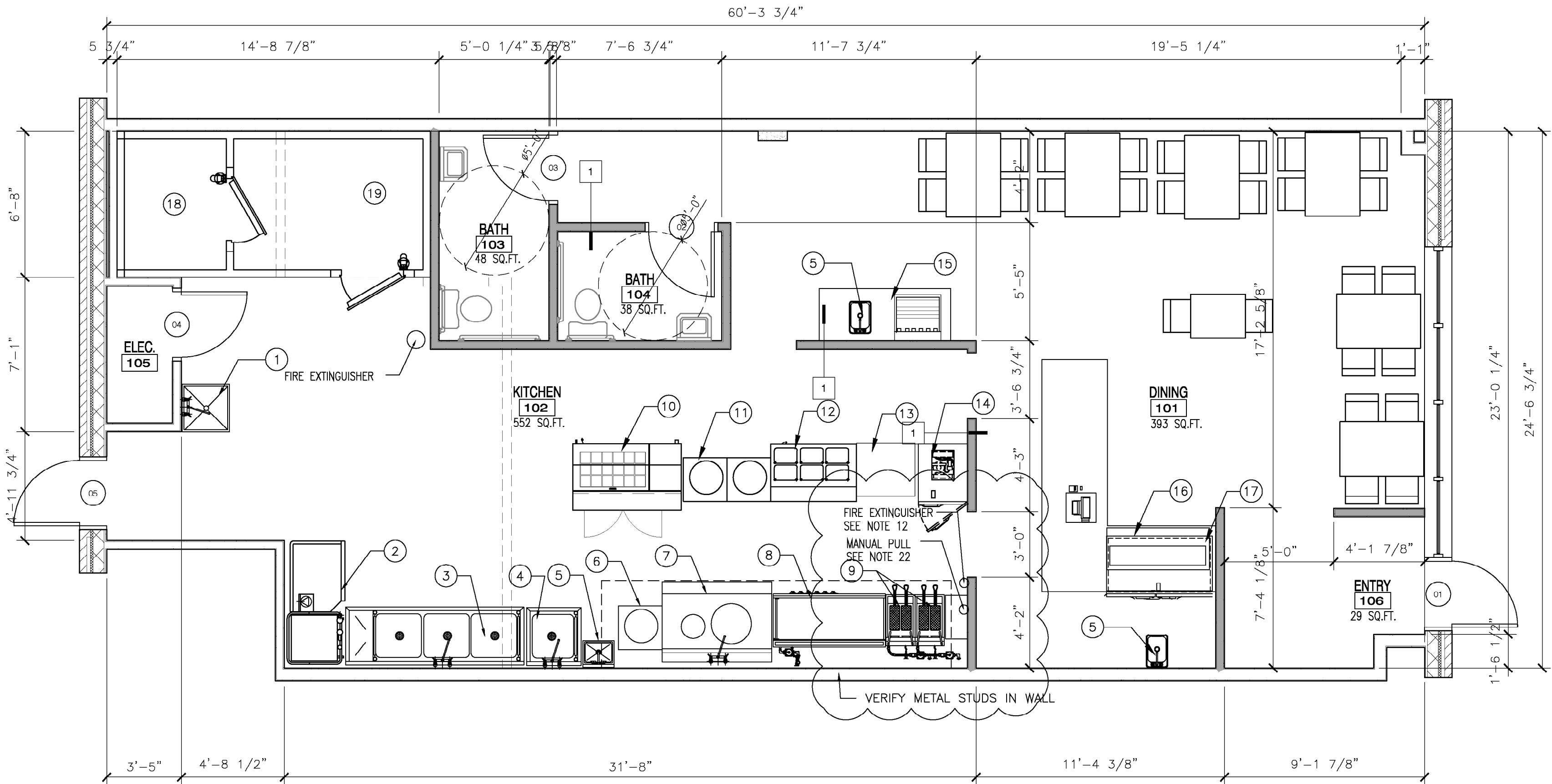


1 WALL TYPE

1. GYPSUM BOARD:

2. METAL STUDS:

3. INSULATION:
- 5/8 IN. THICK GYPSUM BOARD APPLIED VERTICALLY.
3 5/8 METAL STUDS, @16" O.C.
MIN. 3-1/2 IN. THICK FIBERGLASS. INSULATION



FLOOR PLAN

Scale 1/4"=1'-0"

EQUIPMENT SCHEDULE

1. MOP SINK
2. DISHWASHER
3. 3 COMPARTMENT SINK
4. SINGLE COMPARTMENT SINK
5. HAND SINK
6. RICE COOKER
7. CHINESE STOVE
8. GRIDDLE
9. FRYER (2 THUS)
10. REFRIGERATED PREP TABLE
11. RICE WARMERS
12. FOOD WELLS
13. STAINLESS STEEL TABLE
14. COKE REFRIGERATOR
15. SODA DISPENSER
16. SUSHI DISPLAY
17. UNDERCOUNTER REFRIGERATOR

GENERAL NOTES

1. All refrigeration units are capable of maintaining refrigerated foods at or below 41° Fahrenheit at all times. Reach-in refrigerators, prep refrigerators, refrigerated display cases, and freezers must be specifically constructed for commercial use.
2. This is a non-smoking establishment.
3. All cooking and food service equipment must be commercial grade and shall meet NSF Standards.
4. Adequate and suitable space has been provided for the storage of food. Approximately twenty-five percent (25%) of the food preparation area, and at least 32 linear feet of approved shelving for each 100 square feet of storage area are considered adequate (excluding refrigeration). Shelving is easily cleanable and durable. The lowest shelf of any shelving unit shall be at least six inches above the floor.
5. The floor surfaces, in all areas in which food is prepared, packaged, or stored, where any utensil is washed, where refuse or garbage is stored and where janitorial facilities are located, and in all toilet and hand washing areas, shall be smooth and of such durable construction and non-absorbent material as to be easily cleaned. Floor surfaces are covered at the juncture of the floor and wall, with a three-eighths inch (3/8") minimum radius coving.
6. Walls and ceilings of food preparation and utensil washing areas shall be light colored and constructed with materials that provide a durable, smooth, non-absorbent, washable surface. Conduits of all types shall be installed within walls as practicable. When otherwise installed, they are mounted or enclosed so as to facilitate cleaning.
7. The delivery door leading to the outside shall have a self-closing device.
8. The main entrance door leading to the outside shall have a self-closing device.Provide a sign on the main exit door that says "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS" instead of panic hardware.
9. All floors, walls and ceilings in the kitchen, restrooms, food prep areas and storage areas will be smooth washable and nonabsorbent.
10. Install batt insulation in all interior walls for sound transmission.
11. Building address shall be posted in a conspicuous place during construction.
12. Fire extinguishers shall be installed in accordance with the International Fire Code and NFPA 10. Extinguishers shall be mounted 5 feet for 40 lbs or 3.5 feet for greater the 40 lbs above finished floor. Provide blocking in wall for mounting. A class "K" fire extinguisher shall be supplied in the kitchen, install extinguisher next to manual pull station.
13. Tactile "Exit" signs shall be placed at each Exit door. ADA required wall signage shall be placed on the latch side of single doors 9-inches center-line from the door edge. Tactile signs shall be installed 48-inches minimum and 60-inches maximum AFF to the baseline of the highest text.Tactile unisex toilet room signage shall be provided.
14. Verify existing dimensions before construction.
15. Hood system must have a current inspection tag and shall be cleaned upon final inspection.
16. Additional emergency lighting/exit signs may be required if upon final fire inspection it is determined there is not adequate lighting to show a clear path of egress.
17. Install towel and soap dispenser at all hand sinks
18. Use suspended ceiling with a flame spread rating of 25
20. All floors, walls and ceilings in the kitchen, restrooms, food prep areas and storage areas will be smooth washable and nonabsorbent.
21. Post occupant load signage of 29 near front door.
22. The manual actuation device shall be installed not more than 48 inches (1200 mm) nor less than 42 inches (1067 mm) above the floor and shall clearly identify the hazard protected. The manual actuation shall require a maximum force of 40 pounds (178 N) and a maximum movement of 14 inches (356 mm) to actuate the fire suppression system.
23. Verify installation of metal studs in wall behind and 18" adjacent to type I hood.

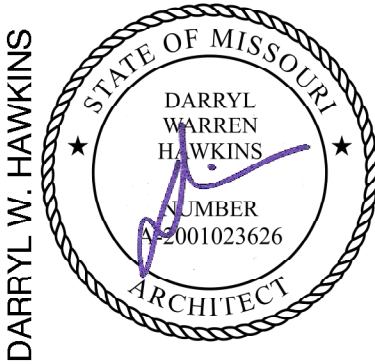
Door Hardware:

- All doors required for egress (exit doors) shall be installed with approved hardware as listed below:
- a. Exit doors shall be operable from the inside without the use of a key or any special knowledge of effort. For exception on the main exterior exits.
- b. Manually operated edge- or surface-mounted flush bolts and surface bolts are prohibited.
- c. Handles, pulls, latches, locks and other operating devices on accessible doors shall be easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms and U-shaped mechanisms are acceptable designs.

INNOVATIVE DESIGN & RENOVATION

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TOKYO GRILLE

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date 10-21-21
drawn by R.E.S.
checked by 2-9-21
revised 1-26-22

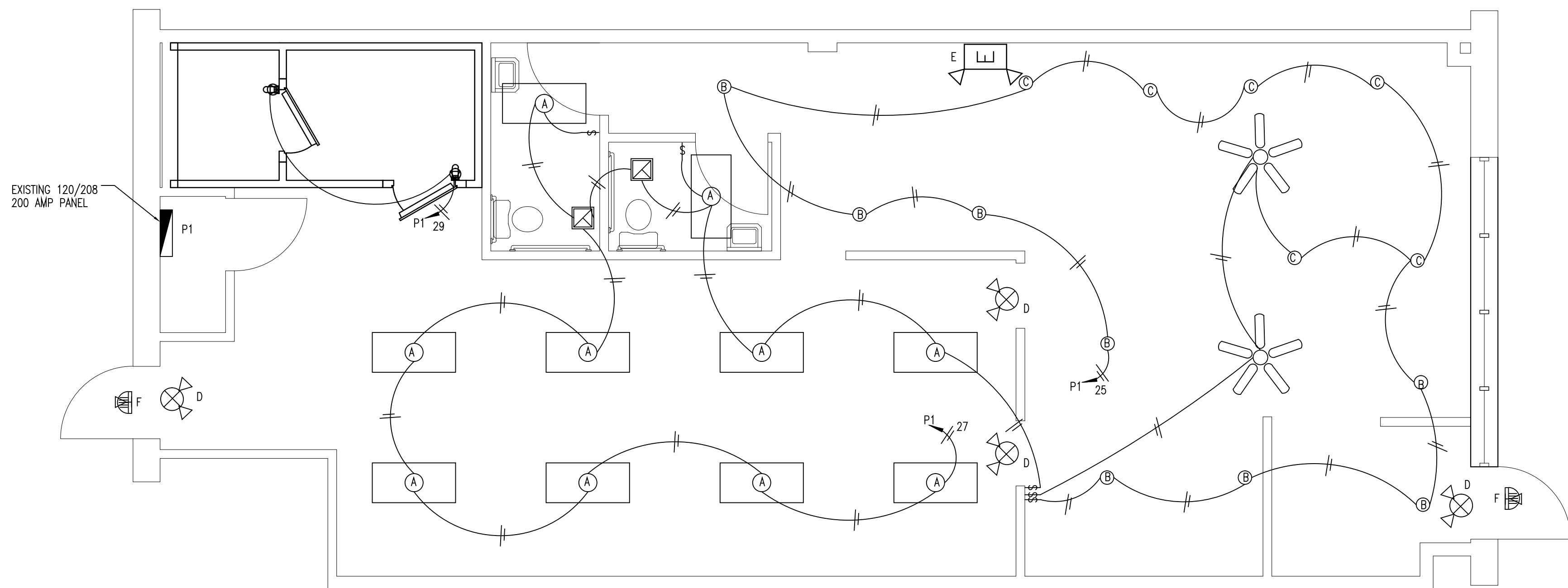
sheet no.

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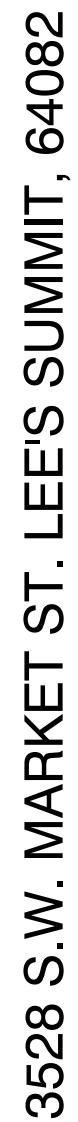
ELECTRICAL SYMBOLS			
NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.			
SYMBOL	DESCRIPTION		MTG. HT.
	FIXTURE—FLUORESCENT—CEILING		
	FIXTURE—FLUORESCENT—CEILING		
	EXIT LIGHT — CEILING, WALL		
	EMERGENCY BATTERY UNIT		
	EXTERIOR EMERGENCY BATTERY UNIT		
	EXTERIOR SURFACE MOUNTED LIGHTING		
	PANELBOARD 120/208 VOLTS—FLUSH MOUNTED		6"—6" TO TOP
	DISCONNECT SWITCH—UNFUSED/FUSED FUSE SIZE SHOWN OVER FRAME SIZE		6"—6" TO TOP
	SWITCH—SINGLE POLE, THREE—WAY, SUBSCRIPT DENOTES OUTLET CONTROLLED		3"—10"
	SWITCH—PILOT LIGHT, OCCUPANCY SENSOR		3"—10"
	SWITCH—MOTOR RATED		
	JUNCTION BOX		
	RECEPTACLE—20A—125 VOLTS—DUPLEX, DOUBLE DUPLEX		1"—8"
	RECEPTACLE—20A—125 VOLTS—DUPLEX — MOUNTED FLUSH IN CEILING		
	RECEPTACLE—20A—125 VOLTS—ISOLATED GROUND		1"—8"
	RECEPTACLE—20A—125 VOLTS— GROUND FAULT CIRCUIT INTERRUPTER		1"—8"
	RECEPTACLE—20A—125 VOLTS—COUNTER HEIGHT		
	RECEPTACLE—20A—125 VOLTS— WITH WEATHERPROOF IN—USE COVER		1"—8"
	RECEPTACLE—20A—125 VOLTS— FLOOR MOUNTED		
	MOTOR—SINGLE PHASE, THREE PHASE, HORSEPOWER AS NOTED.		
	SPECIAL RECEPTACLE AS NOTED		
	OUTLET—COMBINATION TELEPHONE/DATA		1"—8"
	HOOD FIRE SUPPRESSION SYSTEM		
	TELEPHONE TERMINAL BACKBOARD		
	DRAWING NOTE, SPECIAL EQUIPMENT NUMBER		
	GROUND CONNECTION		
	BRANCH CIRCUIT—IN CEILING OR WALLS		
	BRANCH CIRCUIT—IN FLOOR		
	DOWNRUN TO PANEL—LETTER AND NO. INDICATES CIRCUIT NUMBER.		
	CEILING SPEAKER		

AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
C,CDT	CONDUIT	NEC	NATIONAL ELECTRIC CODE
EF	EXHAUST FAN	NL	NIGHT LIGHT
GFI	GROUND FAULT INTERRUPTER	PL	PILOT LIGHT
HP	HORSEPOWER	RX	REMOVE EXISTING
IG	ISOLATED GROUND	N	NEW
MH	MOUNTING HEIGHT	WP	WEATHERPROOF
MTD	MOUNTED	XR	EXISTING TO REMAIN

TYPE	DESCRIPTION	VOLTS	MOUNTING
A	Columbia Lighting Model #LLT 24-50 ML G-FA A12F-E U-SLLGRLL 52 WATT Fixture with electronic ballast, 120Volt with acrylic lens.	120	CEILING, RECESSED
B	INCANDESCENT LED, RECESSED	120	CEILING, RECESSED
C	LED DOWNLIGHT	120	SURFACE, WALL
D	Lithonia # F2XEL-S-W-1-RW-120-EL Titan Series 2 lamp, 5W, fluorescent with stencil on single face, ivory white housing, red letters on white background, 120 Volt and a lead calcium battery.	120	CEILING, WALL
E	Lithonia # 6ELM2 Quantum Series White Exterior, 6 Volt-16 Watt-1.5 Hour Emergency Light, 120 Volt-20 Watt lead calcium battery with 2-N0806 7.2 square sealed beam halogen lamp heads.	120	CEILING, WALL
F	EXTERIOR EXIT LIGHTING (EXISTING)		
NOTES:			
PROVIDE BATTERY PACK WITH CHARGER, INDICATOR LAMP, 90 MINUTE POWER, AND CAPACITY TO ILLUMINATE ONE FLUORESCENT LAMP TO 1400 LUMENS. BATTERY PACK ASSEMBLY SHALL COMPLY WITH NEC 700-12.			



Scale 1/4"=1'-0"



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Date:	Issued for:
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Drawn: RES	
Date:	10-21-21
Sheet Number:	

E1

Architectural Engineering Consortium, Inc. assumes design responsibility for this project for all the mechanical, electrical and plumbing disciplines with drawing sheet number beginning with M, E and P. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, prepared and/or approved by engineers, architects, surveyors, etc. Architectural Engineering Consortium, Inc. assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MEP drawings. Architectural Engineering Consortium, Inc. assumes responsibility only for the design of mechanical, electrical and plumbing disciplines contained herein, generally indicated in bold type.

THE WORK includes materials, fixtures, devices and accessories necessary for a complete functioning electrical system. All Work shall be in accordance with local codes or ordinances and subject to inspection.

COORDINATE with the Work of other Sections, make all connections to equipment furnished by others, and with the constraints of the existing conditions of the Project Site.

ROOF PENETRATIONS shall comply with SMACNA and NRCA standards, with requirements of the Owner, and with all requirements of the roofing warrantee or guarantee. Sub-contract roofing penetration work to an entity approved for use by the Owner. Do not perform roofing penetrations in a manner which would void or otherwise limit the roofing warrantee or guarantee.

BREAKERS shall be thermal magnetic type, quick-make, quick-break, plug-in type of single unit construction. Two and three pole breakers shall be single unit common trip type. Breakers used as switches for 120V lighting circuits shall be approved for that use and marked "SWD".

CABINETS shall be one piece code gauge galvanized steel with mounting studs, wiring gutters of ample size and knockouts for conduit connections as required. Bus bars shall be 98% conductive copper, aluminum, or copper-clad aluminum. Fronts shall be one piece code gauge furniture steel with adjustable fasteners. Provide flush mount units unless otherwise indicated. Provide a plastic covered typewritten schedule identifying all branch circuits inside each cabinet.

GROUNDING SYSTEM: Permanently and effectively ground all metallic Conduit, supports, cabinets, panelboards and systems neutral conductors. Maintain continuity of equipment ground throughout the system. Ground clamps shall be approved type, specifically designed for grounding. Where grounding conductor is enclosed in conduit, ground clamp shall be of a type which grounds both conductor and conduit. All circuits in flexible metal or plastic conduit shall include a ground wire sized in accordance with NEC Table 250-95. Equipment requiring a dedicated ground wire has been shown on the plans and must be verified in the field.

CONDUIT shall be sized to comply with NEC for number and size of conductors installed, minimum 1/2" above grade. Provide Schedule 40 PVC plastic or rigid steel conduit below grade, minimum 3/4". Provide electrical metal tubing (EMT) meeting FS W-C563, Armour cable, or flexible conduit (in lengths 6' or less) for interior locations. EMT connectors and couplings 2" and smaller shall be set-screw type. Clamp conduit to boxes with bushing inside and locknut outside.

CONDUCTORS shall be insulated soft annealed copper with color coding, B and S gage, #10 and smaller to be solid, #8 and larger to be stranded, minimum #12 unless otherwise indicated. THW and THHN may not be used underground, at service entrances, outside, or in wet locations. All insulation to be rated for 600V and types as follows:

#10 and smaller:	THW, THWN or THHN
#8 to #4/0:	THW or THHN
Over #4/0 ordinary service:	THW
Over #4/0 wet or hot service:	THW
Service Entrance:	THW
Wire through Fluorescent fixture channels or within 3 feet of heating equipment:	THHN

DEVICES shall be manufactured by Leviton or equal. All devices shall be ivory color. All cover plates shall be ivory color plastic. Standard duplex receptacles shall be grounding type, 20A, NEMA WD-2 standard 5-20R, back and side wired. Other devices shall be as indicated on the Drawings, or as required by the equipment item intended to be served. Where switches are grouped, provide gangplates.

LIGHT FIXTURES: Provide fixtures with lamps as indicated on Drawings. Provide fixture hickey, suspension nipples and splice fixture wiring to outlet box wiring as required. Provide trim to fit each ceiling condition encountered, notwithstanding model numbers indicated in Fixture Schedule.

LAYOUT branch circuit wiring and arrangement of home runs for maximum economy and efficiency. Increase wire size if voltage drop exceeds 3% or 100 feet of length.

CONCEAL WIRING SYSTEM above suspended ceilings or in wall or floor construction where possible. Install conduit parallel to building lines, and to clear all openings, depressions, pipes, ducts, structure, etc.

METAL-CLAD CABLE Type "MC" may be used in place of conduit and wire. Installation to conform to Article 334, of the National Electric Code.

ADJUSTING AND TESTING: All electrical equipment shall be adjusted and tested for proper operation. Completed wiring system shall be free from short circuits.

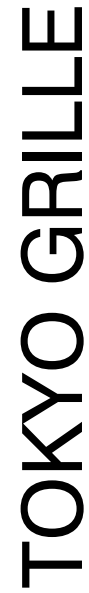
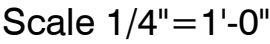
TOUCH-UP or refinish damaged surfaces of fixtures and equipment, exposed to view.

INSTALL CONDUIT continuous between boxes and cabinets with no more than three (3) 90 degree bends. Securely fasten in place with straps, hangers and steel supports as required. Do not support conduit from suspended ceiling grid or suspension wires. Ream conduit ends before installation and thoroughly clean before installation. Openings shall be plugged or covered to keep conduit terminals on switches and outlets shall not be used to "feed thru" to the next switch or outlet. The disconnection or removal of a receptacle, fixture, or other device fed from a box shall not interfere with or interrupt the conductor continuity.

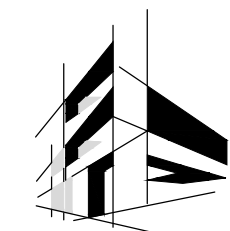
CLEAN all fixtures, glassware and lamps, ready for use

1. Supply and install telephone jacks.
2. Use copper wire for all circuits. The panel supply wire shall be copper.
3. All outlets within 6 feet of a sink must be GFI protected.
4. All main feeders from the transformer to the meter are new.
5. The exterior lighting shall be controlled with a motion detector which detects movement within 50' of building and a photocell.
7. The fault current at the transformer is 10,000 amps.
8. The overcurrent protection at the main breaker is 100,000 A.I.C.

EQUIPMENT CONNECTION SCHEDULE				DISCONNECT DEVICE AT UNIT
ITEM NO	DESCRIPTION	VOLTAGE	LOAD	
1	MERCHANDISE FRIDGE	115V/1	6.8 AMPS	CORD AND PLUG
2	PREP TABLE	115V/1	7.2 AMPS	CORD AND PLUG
3	DISHWASHER	208/3	20 AMP	DIRECT CONNECTION
4	RICE WARMERS	115V/1	5.3 AMPS	CORD AND PLUG
5	UNDERCOUNTER FRIDGE	115/1	7 AMPS	CORD AND PLUG
6	SUSHI DISPLAY	115/1	5 AMPS	CORD AND PLUG
8	WALK IN COOLER	115/1	12.9 AMPS	DIRECT CONNECTION
9	WALK-IN FREEZER	208/60/3	40 AMPS	DIRECT CONNECTION
10	SODA & ICE MAKER	208/2	26 AMPS	DIRECT CONNECTION



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Project number.

Drawn:

Date: 12/2

Sheet Number:

E2

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MECHANICAL LEGEND

- FU

1

EXISTING
- CU

1

EXISTING
- MUA

1

MAKE UP AIR SEE HOOD PLAN
- EF

2

MAKE UP AIR SEE HOOD PLAN

- EF

1

BATH EXHAUST FAN Use Broan or equal model AE50110DC Flex DC Series ceiling exhaust fan. Unit is 120 volt, 0.3 amps with a 70 cfm exhaust capacity at .5" static pressure, 4.5 sones and 7" round duct to outside. Install damper at the end of the flue. Use in bathrooms with 1 commode.

MECHANICAL SPECIFICATION

THE WORK INCLUDES providing new ductwork, grilles, registers, diffusers, duct insulation, thermostats and wiring, and other work as indicated by the Drawings, and as required for a complete and functioning system.

DRAWINGS for HVAC work are diagrammatic, showing the general location, type, layout, and equipment required. The drawings shall not be scaled for exact measurements. Refer to manufacturer's standard installation drawings for device connections and installation requirements. Provide ALL connections, accessories, offsets, and materials necessary to facilitate the system's functioning.

CODE COMPLIANCE: All Work shall comply with the latest edition of the applicable mechanical code, as approved and adopted by authorities having jurisdiction, and applicable sections of NFPA, OSHA, or any interim amendments at the time of the proposal, or other ordinances. All work is subject to inspection.

COORDINATE with the Work of other Sections, equipment furnished by others, requirements of the owners, and with the constraints of the project site. Coordinate with electrical and plumbing subcontractors and their associated drawings as necessary to install all work of the Project. Changes required in the field that require relocation of devices beyond the room or space shown, or those beyond a distance of three feet in any direction of the approximate location shown on the drawings, must be approved by the Engineer prior to fabrication or installation.

EMPLOY experienced tradesmen. The work shall be of the highest industry standards and quality, and shall be acceptable to the Engineer and Owner.

DUCTWORK: Shop fabricated and factory purchased sheet metal ductwork shall conform to ASHRAE and SMACNA standards, minimum of 26 gage. Sheet metal shall be galvanized sheet steel of lock-forming quality, ASTM A-525. Unless otherwise noted, duct dimensions on drawings are net inside clear dimensions on lined ducts, or sheet metal dimensions on unlined ducts. All angle iron used for support shall be galvanized. Connections to walls or floors shall be airtight with angle iron and caulking.

SEAL all duct seams, transverse and longitudinal, air-tight. Provide turning vanes at all elbows or offsets exceeding 33 degrees.

CEILING DIFFUSERS/RETURNS: Provide supply diffusers, grilles and registers, capacities and pattern indicated on the Drawings. The pattern shall be in all four directions unless noted otherwise on the drawings. All return air shall be ducted.

ROUND FLEXIBLE DUCTWORK: Provide Thermaflex # GK-M or other equivalent product approved for use by the Engineer, factory assembled class 1 air duct (UL 181) with 1" thick 1' PCF fiberglass insulation and reinforced outer protective cover/vapor barrier. Flex duct shall meet NFPA 90A with flame spread under 25, smoke developed under 50, and shall be rated for 2" w.g. pressure and 0 to 250 degree temperature. Provide all grilles and louvers with a minimum 4" duct starter collars, or sheet metal elbows. Attach flexible ductwork to grilles or duct collars with inner helix banded separately from the external vapor barrier and insulation. Fold over insulation material inward to cover exposed insulation with vapor barrier and band on outside. Provide Panduit straps or metal adjustable bands only. Use twistlock conical tap collars at connections into sheet metal ductwork.

AUTOMATIC TEMPERATURE CONTROL: Provide three wire type proportional thermostats where indicated on the drawings. Provide plenus rated cable or conduit and wire, of minimum 18 AWG wire, for connection from thermostats to their termination point in the air handling unit.

TEST, ADJUST, AND BALANCE each grille, fan, and damper of the new ductwork and HVAC system. Follow NEBB and ASHRAE guideline for test and balance procedures. Eliminate noise and vibration, and assure proper functioning of controls, maintenance of temperature, and equipment operation. Provide follow-up after necessary corrections have been made by to correct deficiencies or objections to assure that the system balance has not been disturbed. All CFM's shall be balanced to within five percent (5%) below the CFM shown. Wherever possible, do not exceed the CFM shown on the drawings.

DUCT INSULATION shall be provided on all ductwork. The insulation must be provided on the outside of the ductr. The exterior duct from the unit to the building must be insulated with an exterior duct insulation rated for the exterior use.

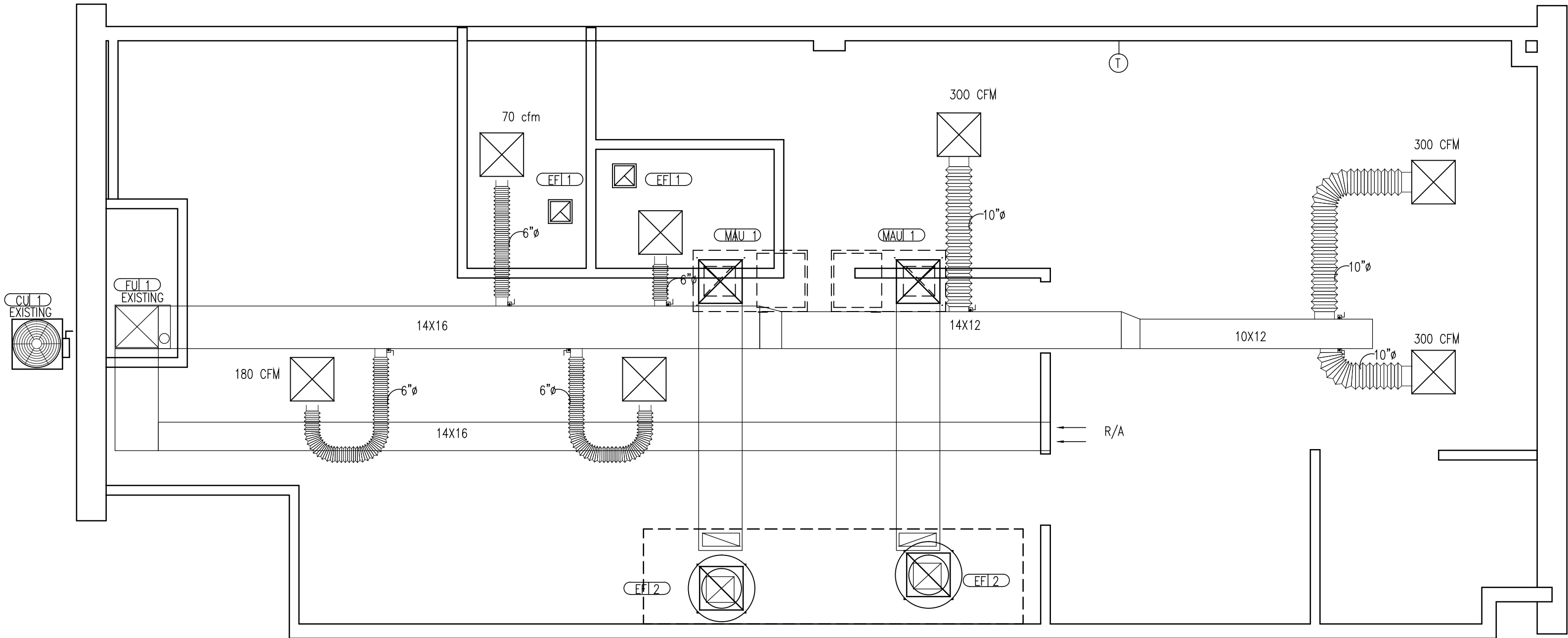
GUARANTEE all new work from defects in installation, and material defects for a period of one year after acceptance of the system by the Owner.

MECHANICAL SPECIFICATION

1. THE TYPE 1 EXHAUST HOOD SHALL BE TIED TO FIRE ALARM SYSTEM.
2. PROVIDE A WEATHERPROOF GFI OUTLET WITHIN 25' OF ANY ROOFTOP EQUIPMENT.
- 3 THE FIRE CODE OFFICIAL SHALL BE NOTIFIED 48 HOURS BEFORE ANY REQUIRED HOOD TRIP ALARM TESTING.
- 4 . ALL RETURN AIR SHALL BE DUCTED.

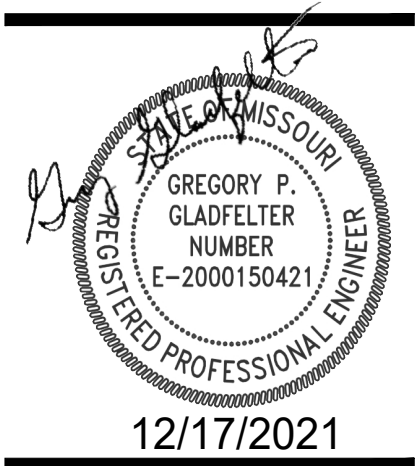
AIR BALANCE SCHEDULE					
ITEM	OUT DOOR AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE
EF 1	140	0	0	-140	0
HVAC 1	534	866	1400	0	0
TOTAL	674	866	1400	-140	0
BUILDING PRESSSURE = 0 CFM					

	ZONE	OCCUPANCY	OCCUPANT	PEOPLE	AREA	TOTAL	EXHAUST	EXHAUST	NUMBER OF	TOTAL
	FLOOR AREA	DENSITY	LOAD	OUTDOOR	OUTDOOR	SUPPLY	AIRFLOW	AIRFLOW	FIXTURES	EXHAUST
	SQ. FT.	#1000	Pz	AIR RATE (Rp)	RATE (Ra)	AIR	RATE	PER FIXTURE		CFM
OCCUPANCY				CFM/PERSON	CFM/SF	CFM/SF	CFM	CFM		CFM
DINING	636	15	10	7.5	0.12	148	0	0	0	0
KITCHEN	552				0.7	386	0		0	0
BATH EXHAUST							70		2	140
FRESH AIR						534				
TOTAL SUPPLY AIR						534				
TOTAL EXHAUST AIR										140



MECHANICAL FLOOR PLAN

Scale 1/4"= 1'-0"



TOKYO GRILLE

3528 S.W. MARKET ST. LEE'S SUMMIT, 64082



REVISIONS	
	12-9-21
Project number:	
Drawn: RES	
Date: 10-21-21	
Sheet Number: M1	

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