02 NOTES

ARCHITECTURAL GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CITY AND STATE'S BUILDING HEALTH RULES AND REGULATION. LOCAL ORDINANCES AND SUCH STATUTORY PROVISIONS WILL BE CONSIDERED AS MUCH AS A PART OF THESE SPECIFICATIONS.
2. CG SHALL FIELD VERIFIED ALL EXISTING DIMENSIONS AND PARTITIONS LOCATION, AND INFORM ARCHITECT.
3. THE DRAWINGS ARE COMPLIMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. SHOULD A CONFLICT OCCUR, THE OWNER'S REPRESENTATIVE WILL DETERMINE THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETED AND FUNCTIONAL FACILITY. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THESE DRAWINGS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED "FINISHED" RESULTS.
4. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK EACH CONTRACTOR AND SUBCONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND IN THE BUILDING AND SHALL BE RESPONSIBLE FOR THE ACTUAL DIMENSIONS AND THE DIMENSIONS INDICATED ON THE DRAWINGS. ALL WORK SHALL BE LAID OUT SUFFICIENTLY IN ADVANCE OF WORKMEN TO GIVE OPPORTUNITY FOR THE ARCHITECT TO ADJUST DISCREPANCIES OR RENDER DECISIONS WITHOUT CAUSING DELAY TO THE PROJECT BUT WORK SHOULD BE STOPPED WHEN NECESSARY AND IN NO CASE ALLOWED TO PROCEED IN UNCERTAINTY.
5. THESE DRAWINGS ARE FOR THIS SPECIFIC PROJECT AND NO OTHER USE IS AUTHORIZED.
6. ALL MATERIALS ARE NOT NOTED BY WORDS. IT IS INTENDED THAT THEY ARE UNDERSTOOD BY THE MATERIAL SYMBOL DRAWN.
7. WHERE A CONDITION IS NOTED "TYPICAL", IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS ARE TO BE CONSTRUCTED OF THE SAME MATERIALS, FINISH AND/OR DIMENSIONS.
8. ALL DIMENSIONS ARE TO THE FACE OF STUDS, THE FACE OF FINISHED WALL, OR CENTERLINE OF STRUCTURAL COLUMN AND THE AFOREMENTIONED MATERIALS. CEILING ELEVATIONS, BEAM ELEVATION, SOFFIT ELEVATIONS ARE CLEAR "FINISHED" DIMENSIONS.
9. FURNISH AND INSTALL SOLID FIRE RETARDANT IN ALL INTERIOR STUD PARTITIONS WHERE STRUCTURAL SUPPORTS ARE REQUIRED FOR VANITIES, SHELVES, GRAB BARS, BENCHES. ETC.
10. WHERE DISSIMILAR MATERIALS MEET USE CAULKED JOINTS. USE METAL EDGES CORNERS AND STOPS AS REQUIRED ON ALL GYPSUM BOARD UNITS FOR FIRST CLASS FINISHED APPEARANCE.
11. ALL GYPSUM BOARD SHALL BE 5/8" "X" TYPE THROUGHOUT EXCEPT WHERE NOTED, AND SHALL INSTALL ACCORDING TO THE SPECIFICATION OF GYPSUM ASSOCIATION.
12. NO PLUMBING SUPPLIES, WASTES, ETC. TO BE LOCATED IN EXTERIOR WALLS EXCEPT FROST PROOF HOSE BIBS. ALL EXPOSED PIPES, DUCTS, CONDUIT SHALL BE ENCLOSED WITH GYPSUM BOARD ON FURRING INCLUDING THOSE NOT SHOWN ON THE DRAWINGS.
13. SLOPE 1" IN 4' RADIUS AROUND ALL FLOOR DRAINS.
14. ALL PLUMBING CHASES TO HAVE FULL BATT INSULATION.
15. EVERY CONTRACTOR SUBCONTRACTOR AND SUPPLIER SHALL PROVIDE A NOTARIZED STATEMENT OF ASSURANCE THAT NO PRODUCTS OR MATERIALS CONTAINING ASBESTOS WERE SUPPLIED OR INSTALLED ON THIS PROJECT.
16. COMBUSTIBLE MATERIALS OF ANY NATURE ARE NOT PERMITTED ABOVE THE CEILING
17. ALL CONTRACTORS MUST BE LICENSED TO WORK IN THE CITY
18. ANY AND ALL MATERIALS AND SUBSTANCE UTILIZED WITHIN THE PREMISES MUST BE ENVIRONMENTALLY SAFE AND NON-HAZARDOUS
19. INSTALL A SIGN THAT STATE THE OCCUPANT LOAD.
20. ALL BARRIER FREE FIXTURES AND ACCESSORIES ARE TO CONFORM TO THE AMERICANS WITH DISABILITIES ACT, THE STATE BARRIER FREE CODE AND ANY LOCAL ORDINANCES
21. INSTALL HANDICAP SIGN ON RESTROOM DOOR AND PARKING LOT SPACE. ALL SIGNS SHALL BE ADA APPROVED.

FOOD PROTECTION NOTES:

GC SHALL FIELD VERIFY EXISTING CONDITION OF THE FOLLOWINGS. REPAIR /REPLACE OR PROVIDE AS REQUIRED:
1. UTENSIL WASHING SINK (3-COMPARTMENT SINK) MUST BE NSF APPROVED ALL METAL AND FREESTANDING. BOWL SIZE 21"X21"X21"
2. PROVIDE METAL BACKSPLASH @ 8" MIN, EXTENDING UP THE WALL SHALL BE FORMED AS AN INTEGRAL PART OF THE UNIT AND SEALED TO THE WALL. THE SINK COMPARTMENTS AND DRAIN BOARDS SHALL BE LARGE ENOUGH TO ACCOMMODATE THE LARGEST UTENSIL USED.
3. THIS FACILITY SERVES BEER.
4. HOT WATER HEATER: SEE EQUIPMENT SCHEDULE
6. HAND WASHING FACILITIES PER PLAN SHALL BE EQUIPPED WITH AN ADEQUATE SUPPLY OF HOT AND COLD RUNNING WATER DELIVERED UNDER PRESSURE THROUGH A MIXING VALVE. TEMPERED WATER MUST SUPPLY TO ALL THE HAND-WASHING SINKS. FAUCETS SHOULD BE W/WRIST BLADES. PROVIDE HAND WASHING CLEANSER AND SINGLE-USE SANITARY TOWELS SHALL BE PROVIDED IN WALL MOUNTED DISPENSERS.
7. MOP SINK SHALL BE SEPARATED FROM ANY FOOD PREPARATION OR STORAGE AREA AND SHALL BE A SLAB, BASIN CURBED AND SLOPED TO A DRAIN FINALIZED WITH OWNER, AND CONNECTED TO APPROVED SEWERAGE AND PROVIDED WITH HOT AND COLD RUNNING WATER, THROUGH A MIXING VALVE, AND PROTECTED WITH A BACKFLOW DEVICE.
8. ALL EQUIPMENT SHALL MEET NSF STANDARS AND INSTALLED IN ACCORDANCE WITH SUCH REQUIREMENTS.
9. ALL REFRIGERATION UNITS SHALL BE MAINTAINING FOODS AT OR BELOW 41 DEGREE F AT ALL TIME.
10.APPLIANCES AND EQUIPMENT WHICH ARE EQUIPPED WITH PUMPS, DRIPS OR DRAINAGE OUTLETS SHALL BE DRAINED BY INDIRECT WASTE PIPES DISCHARGING INTO AN APPROVED FLOOR DRAIN AS REQUIRED BY CODE.
11.FOOD SHELVING SHALL BE EASILY CLEANABLE AND DURABLE. THE LOWEST SHELF OF ANY SHELVING UNIT SHALL BE AT LEAST SIX INCHES ABOVE THE FLOOR.
12.VENTILATION SHALL BE PROVIDED TO REMOVE TOXIC GASES, HEAT, GREASE, VAPORS AND SMOKE FROM THE FOOD ESTABLISHMENT. ALL AREAS SHALL HAVE SUFFICIENT VENTILATION TO FACILITATE PROPER FOOD STORAGE AND TO PROVIDE A REASONABLE ENVIRONMENT OF COMFORT. TOILET ROOM SHALL BE VENTED TO THE OUTSIDE AIR BY MEANS OF A LIGHT-SWITCH ACTIVATED EXHAUST FAN, CONSISTENT WITH THE REQUIREMENTS OF LOCAL BUILDING CODES.
13.LIGHTING: 50 FOOT-CANDLES MIN. @ 30" AFF SHALL BE PROVIDED IN ALL AREAS WHERE FOOD IS PREPARED, PROCESSED OR PACKAGED OR IN AREAS WHERE UTENSILS ARE CLEANED OR STORED. LIGHT FIXTURES SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE EASILY CLEANABLE.
14.DELIVERY AND ENTRANCE DOORS SHALL BE SELF-CLOSING.
15.PROVIDE SUFFICIENT HOT WATER SUPPLY TO SATISFY THE CONTINUOUS AND PEAK HOT WATER DEMANDS OF THE ESTABLISHMENTS. HAND WASHING SHALL BE AT 110 DEGREES. ALL TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110 DEGREES.

NEW AUTOMATIC FIRE-EXTINGUISHING SYSTEM:

A NEW SYSTEM SHALL BE PROVIDED FOR THE KITCHEN EXHAUST HOOD AND DUCT SYSTEM AS REQUIRED BY THE IFC OR THE IMC. THE AUTOMATIC FIRE EXTINGUISHING SYSTEMS SHALL BE AUTOMATICALLY ACTUATED AND INTERLOCKS WITH FUEL SHUTOFFS, VENTILATION CONTROLS, SMOKE AND HEAT VENTS AND OTHER FEATURES NECESSARY FOR PROPER OPERATION OF THE FIRE-EXTINGUISHING SYSTEM.

MANUAL PULL-STATION SHALL BE NOT LESS THAN FORTY-TWO (42) INCHES ABOVE FLOOR AND NOT MORE THAN FORTY-EIGHT (48) INCHES ABOVE FINISHED FLOOR.
B. NOT LESS THAN TEN (10) FEET FROM NOR MORE THAN TWENTY (20) FEET FROM THE EXHAUST SYSTEM; AND MUST BE IN OR NEAR THE PATH OF EGRESS. THE OPERATION OF THE EXTINGUISHING SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL OR ELECTRICAL SUPPLY TO THE COOKING EQUIPMENT UNDER THE HOOD.

AN AUDIBLE ALARM SHALL BE MOUNTED ON THE FRONT FACE OF THE HOOD, INTERLOCKED WITH THE FIRE SYSTEM. MAKE UP AIR UNITS SHALL BE ELECTRICALLY INTERLOCKED WITH THE AUTOMATIC FIRE SUPPRESSION SYSTEM AND SHALL SHUT DOWN UPON ACTIVATION. THE EXHAUST FANS SHALL REMAIN IN OPERATION DURING FIRE CONDITIONS. EXHAUST FANS SHALL BE TESTED FOR USE WITH GREASE LADEN VAPORS AND COMPLY WITH UL762-1991.

FIRE SUPPRESSION SYSTEM OVER DEEP FRYERS SHALL MEET UL300 COMPLIANCE.

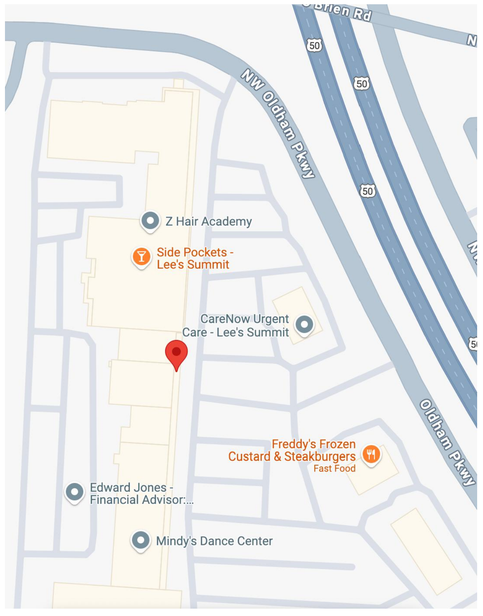
ALL ELECTRIC OUTLETS AND CONNECTIONS UNDER THE HOOD, SHALL BE TURNED OFF UPON ACTIVATION OF THE FIRE SYSTEM.

FIRE SUPPRESSION SYSTEM IS NOT PART OF THIS PERMIT. CONTRACTOR SUBMIT SHOP DRAWINGS FOR CITY/COUNTY APPROVAL PRIOR TO INSTALLATION- DEFERRED

FIRE PROTECTION NOTES:

1.POSTING OF OCCUPANT LOAD.
EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.
2. MAINTENANCE OF FIRE-RESISTIVE ASSEMBLY FOR THE EXISTING DEMISING WALL: GC SHALL FIELD VERIFY AND MAINTAIN THE REQUIRED ONE HOUR FIRE-RESISTANT RATING OF FIRE-RESISTANCE-RATED CONSTRUCTION. SUCH ELEMENTS SHALL BE PROPERLY REPAIRED, RESTORED OR REPLACED WHEN DAMAGED, ALTERED, BREACHED OR PENETRATED. OPENINGS MADE THEREIN FOR THE PASSAGE OF PIPES, ELECTRICAL CONDUIT, WIRES DUCTS, AIR TRANSFER OPENINGS AND HOLES MADE FOR ANY REASON SHALL BE PROTECTED WITH APPROVED METHODS CAPABLE OF RESISTING THE PASSAGE OF SMOKE AND FIRE. OPENINGS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROTECTED BY SELF- OR AUTOMATIC- CLOSING DOORS OF APPROVED CONSTRUCTION MEETING THE FIRE PROTECTION REQUIREMENTS FOR THE ASSEMBLY.
3. INSTALLATION ACCEPTANCE TESTING:
FIRE DETECTION AND ALARM SYSTEMS, FIRE EXTINGUISHING SYSTEM, FIRE HYDRANT SYSTEMS, AND ALL OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES THERETO SHALL BE SUBJECT TO ACCEPTANCE TESTS AS CONTAINED IN THE INSTALLATION STANDARD AND AS APPROVED BY THE FIRE CODE OFFICIAL. THE FIRE CODE OFFICIAL SHALL BE NOTIFIED BEFORE ANY REQUIRED ACCEPTANCE TESTING.
4. PORTABLE FIRE EXTINGUISHERS FOR COMMERCIAL COOKING EQUIPMENT. PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED WITH A 30 FOOT TRAVEL DISTANCE OF COMMERCIAL TYPE COOKING EQUIPMENT. COOKING EQUIPMENT INVOLVING VEGETABLE OR ANIMAL OILS AND FATS SHALL BE PROTECTED BY A CLASS K RATED PORTABLE EXTINGUISHER. A K-CLASS EXTINGUISHER SHALL BE PROVIDED AND LOCATED UNDER THE MANUAL PULL FOR THE HOOD.
5. PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NFPA
6. OWNER SHALL BE MAINTAIN ABC TYPE EXTINGUISHERS.
7. MAINTENANCE OF EXTERIOR DOORS AND OPENINGS: EXTERIOR DOORS AND THEIR FUNCTION SHALL NOT BE ELIMINATED WITHOUT PRIOR APPROVAL.
8. THE FINAL DETERMINATION FOR THE REQUIREMENTS OF EXIT SIGNAGE AND EMERGENCY LIGHTING SHALL BE MADE IN THE FIELD.
9. THE ADDRESS SHALL BE POSTED ON FRONT AND REAR: FRONT IS MINIMUM 6" LETTERS OF CONTRASTING COLOR TO BACKGROUND AND BACK MAY BE 1" LETTERS.
10.A KNOX BOX SHALL BE PROVIDED NEAR THE MAIN ENTRANCE TO THE BUILDING (IFC-2018 § 506.1). 11.PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER (IFC-2018 § 906.1;906.2). ABC AND CLASS K

03 SITE CONTEXT



04 KEY

- FLOOR DRAIN/SINK
- PORTABLE FIRE EXTINGUISHER
- EMERGENCY EXIT FIXTURE WITH 90 MIN. BACKUP
- ELECTRICAL PANEL
- SINGLE SWITCH 48" AFF TYP. RELOCATE EXISTING OR PROVIDE NEW AS NECESSARY
- ELECTRICAL RECEPTACLE ELEVATION PER OWNER
- EXHAUST FAN SWITCHED WITH LIGHT VENT THROUGH ROOF TO THE EXTERIOR
- REVISION CLOUD
- ACCESSIBILITY CLEARANCE
- ENTRANCE
- ROOM NAME
- PLAN NOTE
- EQUIPMENT NUMBER
- 280 POWER OUTLET

01 EXISTING SITE PLAN
SCALE: 1/8" = 1'-0"

- REFERENCE DRAWING TAG
- SECTION TAG
- ELEVATION TAG
- NEW WALL
- EXISTING WALL TO REMAIN
- DEMO WALL

05 ABBREVIATIONS

A/C	AIR CONDITIONING
A/V	AUDIO/VISUAL
ADA	AMERICANS WITH DISABILITIES ACT
B.O.	BOTTOM OF
B.S.	BACKING STORAGE
B.S.B.	BOTTOM OF BEAM
C.G.	CENTER OF GRAVITY
C.I.	CAST IRON
C.L.	CENTER LINE
C.M.U.	CONCRETE MASONRY UNIT
D.B.	DEMISING WALL
D.E.	DRAINAGE ELEVATION
E.L.	ELEVATION LINE
E.Q.	EQUAL
F.F.	FINISHED FLOOR
F.O.	FACE OF
G.F.	GROUND FLOOR
GWB	GYPSUM WALL BOARD
H.C.	HIGH CEILING
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
L.O.	LINE OF
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
P.L.	PROPERTY LINE
R.O.	ROUGH OPENING
S.O.	STORE OWNER
S.F.	SQUARE FEET
S.O.G.	SLAB ON GRADE
T.O.	TOP OF
U.O.	UNDER OCCUPANCY
V.C.T.	VINYL COMPOSITION TILE
W.C.	WATER CLOSET
W.L.	WATER LINE
W.O.	WINDOW OPENING
W.R.	WEATHER RESISTANT
F.B.	FACE BRICK
G.P.	GENERAL PURPOSE
N.P.	NON-POTABLE
R.D.	ROOF DRAIN
S.C.	STRUCTURAL CONCRETE
T.B.	TUBULAR BEAM
T.O.S.	TOP OF STEEL
U.G.	UNDERGROUND
V.R.	VAPOR RETARDER

01 BUILDING CODE INFORMATION

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

NOTE: PER LEE SUMMIT'S CLEAN AIR ORDINANCES, A "NO SMOKING" SIGN SHALL BE CLEARLY POSTED AT EVERY ENTRANCE OF THIS FACILITY.

SCOPE OF WORK

ADOPTING THE EXISTING TENANT SPACE IN AN EXISTING SHOPPING CENTER FOR A NEW DINE-IN RESTAURANT
1. NEW BOOTH SEATS
2. NEW KITCHEN WITH HOOD SYSTEM
3. NO EXTERIOR ALTERATION
4. NEW RESTROOM
5. NEW WALK-IN COOLER

PLANNING AND DEVELOPMENT

PARKING DATA

PARKING PROVIDED BY DEVELOPER HAS COMPLY WITH THE CITY'S STANDARDS FOR OFF-STREET PARKING. ACCESSIBLE PARKING SPACES AND RAMPS ARE LOCATED IN FRONT OF THIS FACILITY.

NO RTU CAN BE SIGHTED FROM GROUND LEVEL.
GC SHALL PROVIDE RTU SCREEN MATCHING BUILDING MATERIALS AS REQUIRED.

CODE AND OCCUPANT LOAD DATA

OCCUPANCY TYPE	B (NOT A CHANGE OF USE)
CONSTRUCTION TYPE	2B
FLOOR AREA	1200 SF

OCCUPANCY LOAD BREAKDOWN

ROOM NAME	AREA	OCCUPANCY RATIO	OCCUPANCY LOAD
DINING BOOTH SEATING	-	2 FT/PERSON	12
KITCHEN	504 SF	200 SF/PPL	3
HOST STATION	-	-	1
RETAIL AREA	168	60SF/PPL	3
TOTAL			19

	REQUIRED	PROVIDED
EXIT(S)	1	1

NUMBER OF STORIES	1 STORY
SPRINKLERS	THIS IS NOT A SPRINKLED BUILDING WITH NO EXISTING FIRE ALARM FOR THE BUILDING.

PLUMBING FIXTURES

EXISTING TO REMAIN. NO CHANGE.

	REQUIRED	PROVIDED
WATER CLOSET(S)	1	1
LAVATORY(S)	1	1

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PROJECT:

DRAGON J

214 NW OLDHAM
PWKY LEE SUMMIT, MO
64081

STATE OF MISSOURI
02/04/2025
YUEH-LI JEAN
SUN KAO
NUMBER
A-6059
REGISTERED ARCHITECT

SHEET INDEX:

CONSULTANTS:

M/E/P:

GLADFELTER ENGINEERING GROUP
10233 MILLSTONE DRIVE, #4111
LENEXA, KANSAS
66220
TEL: 816-916-4675
EMAIL: GPG@AECONSORT.COM

ISSUE PACKAGE:

NO:		DATE:
1	CITY COMMENTS	12/30/2024
2	CHANGE ORDER	01/13/2024

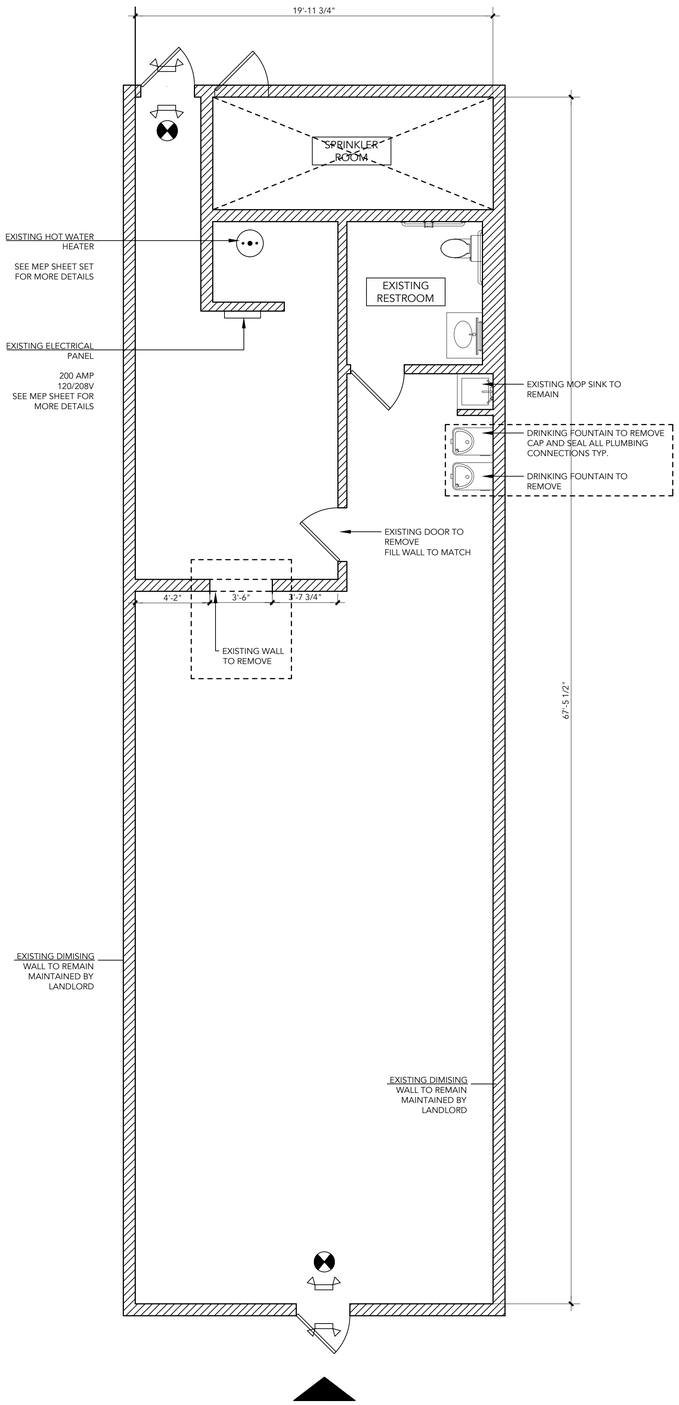
OWNER:	
CONTACT:	
DRAWN BY:	JRK
CHECKED BY:	YJK
PROJECT:	TO-GO
PLOT DATE	02/04/2025

DRAWING

TITLE PAGE

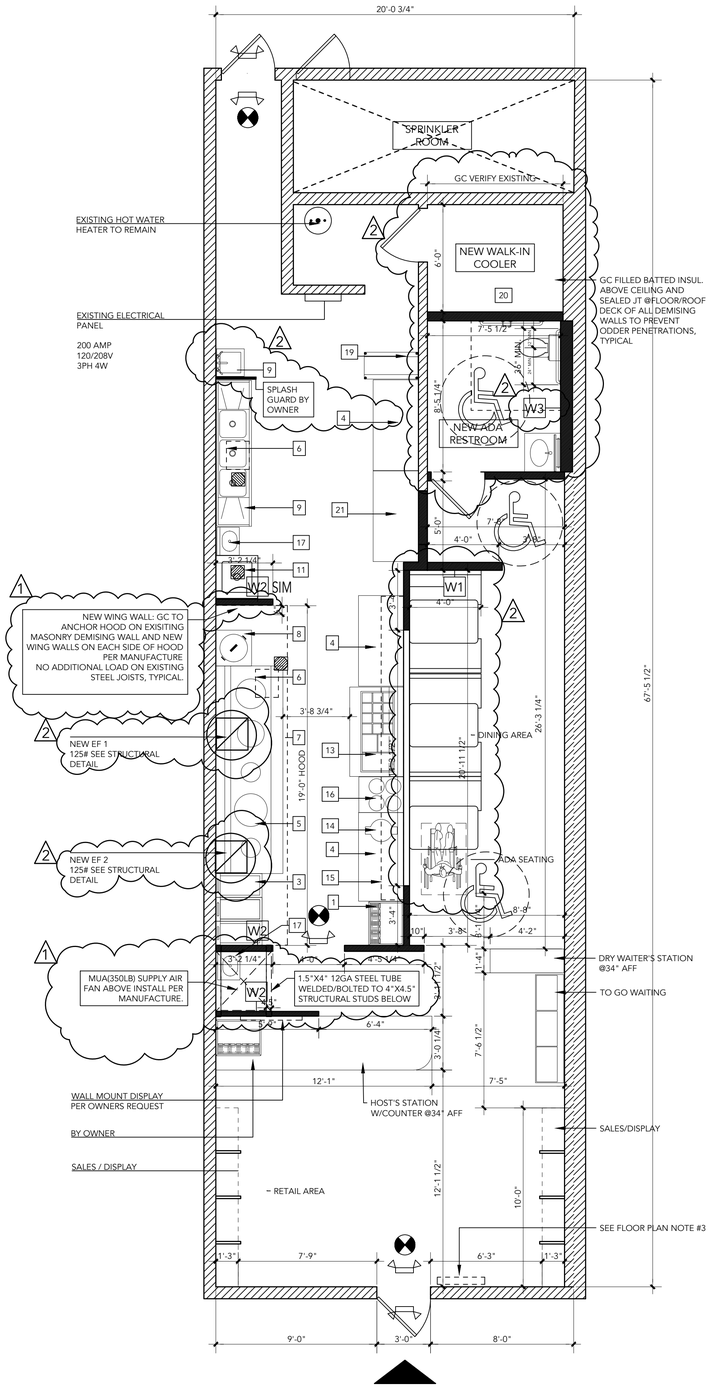
SCALE 1/4" = 1'0"

SHEET NUMBER
T



01 EXISTING / DEMO FLOOR PLAN

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



02 PROPOSED FLOOR PLAN

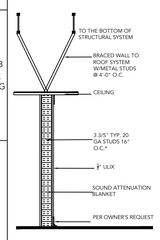
SCALE: 1/4" = 1'-0"

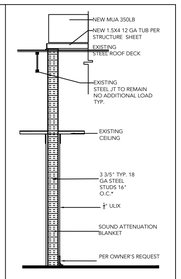
03 FLOOR PLAN NOTES

1. GC TO FIELD VERIFY ALL EXISTING CONDITIONS. REPORT TO ARCHITECT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITION.
2. ALL NEW WALLS TO BE TYPE W1/W2 UNLESS NOTED OTHERWISE.
3. PROVIDE FIRE BLOCKING IN CONCEALED SPACES OF STUD WALLS, INCLUDING FURRED SPACES, AT 10' INTERVALS BOTH VERTICALLY AND HORIZONTALLY.
4. FOR DOOR AND FINISH SCHEDULE SEE SHEET A102
5. SIGN BY THE EXIT DOOR: "THIS DOOR SHALL REMAIN UNLOCKED DURING THE BUSINESS HOURS".
6. ALL SELF-SERVE COUNTERS TO BE 34" AFF.
7. INTERIOR FINISHES SHALL COMPLY WITH SECTION 803.1 FLAME SPREAD PROVISION.
8. PROVIDE ALL NECESSARY CEILING OR WALL ACCESS PANELS AS REQUIRED
9. FOR AIR CONDITIONING, PLUMBING, FIRE SPRINKLER AND ELECTRICAL SYSTEMS. IN FIRE RATED ASSEMBLIES PROVIDE RATED ACCESS PANELS WITH SELF CLOSING DEVICES.
10. PROVIDE EXIT SIGNS CONNECTED TO A SOURCE OF EMERGENCY BACKUP POWER.
11. THE TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD NONABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CERAMIC TILE OR OTHER APPROVED MATERIAL THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4" (1210.2.1)
12. CEMENT, FIBER-CEMENT OR GLASS MAT GYPSUM BACKERS IN COMPLIANCE WITH ASTM C1178, C1288 OR C1325 SHALL BE USED AS A BASE FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL AND CEILING PANELS IN SHOWER AREAS. WATER RESISTANCE GYPSUM BACKING BOARD SHALL BE USED AS A BASE FOR TILE IN WATER CLOSET COMPARTMENT WALLS WHEN INSTALLED IN ACCORDANCE WITH GA-216 OR ASTM C840. REGULAR GYPSUM WALLBOARD IS PERMITTED UNDER TILE OR WALL PANELS IN OTHER WALL AND CEILING AREAS WHEN INSTALLED IN ACCORDANCE WITH GA-216 OR ASTM C840. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE USED IN THE FOLLOWING LOCATIONS: SECTION 2506.1 A. OVER A VAPOR RETARDER. B. IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS SAUNAS, STEAM ROOMS OR GANG SHOWER ROOMS C. ON CEILINGS WHERE FRAME SPACING EXCEEDS 12 INCHES O.C. FOR 1/2 INCH THICK AND MORE THAN 16 INCHES O.C. FOR 5/8 INCH THICK.
13. GC TO SUBMIT STRUCTURAL INSPECTION REPORT TO CITY AND LANDLORD ON ALL ADDITIONAL ROOF TOP MECHANICAL UNITS PRIOR TO FINAL INSPECTION.
14. GC TO MAINTAIN ROOF WARRANTY AS REQUIRED.
15. NO PVC PIPE OR COMBUSTIBLES ALLOWED IN THE PLENUM SPACE. GC FIELD VERIFY, REPLACE AS REQUIRED.

04 WALL ASSEMBLY

TAG	DESCRIPTION
W1	INTERIOR PARTITION STEEL STUDS @ 16" O.C. 3 1" SHEETROCK FIRECODE BOTH SIDES. TO EXISTING CEILING HEIGHT.
W2	INTERIOR LOAD BEARING WALL FOR SUPPLY AIR FAN 18 GA @16' OC TO BOTTOM OF ROOF DECK
W3	EXISTING MASONRY DEMISING WALL WITH NEW 4" FURRED WALL FOR NEW PLUMBING PIPES.





05 EQUIPMENT LIST

NO	DESCRIPTION
1	SODA REF.
3	DEEP FRYER
4	WORK TABLE
5	CHINESE STOVE
6	GREASE TRAP
7	EXHAUST HOOD
8	RICE COOKER
9	3 COMP SINK
10	WORK TABLE
11	FOOD SINK
13	BAN MARIE
14	RICE WARMER
15	DOUBLE DECK SHELF
16	FOOD WARMER
17	HAND SINK
18	MOP SINK EXIST TO REMAIN
19	WIRE SHELVES
20	WALK-IN COOLER
21	REACH-IN FREEZER

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DRAWING

PROPOSED FLOOR PLAN

SCALE 1/4" = 1'0"

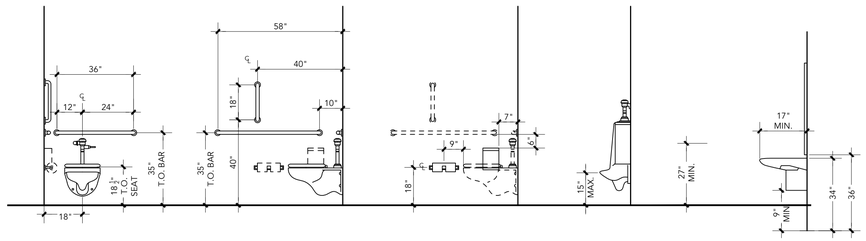
SHEET NUMBER

A101

04 ADA RESTROOM MOUNTING HEIGHTS FOR BATHROOM ACCESSORIES

NOT TO SCALE

2



TOILET
FRONT VIEW

48" GRAB BAR
SIDE VIEW

TOILET PAPER DISPENSER
SIDE VIEW

URINAL
SIDE VIEW

LAVATORY
SIDE VIEW

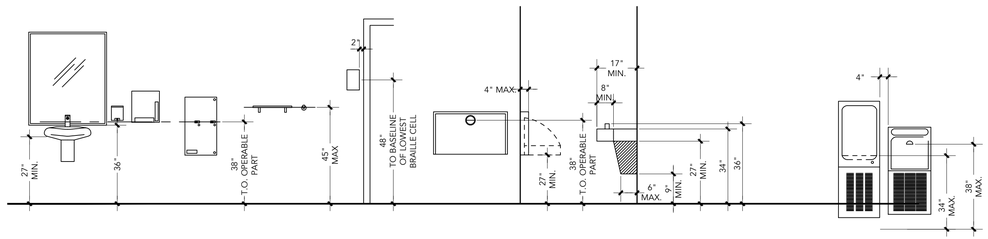
KNEE CLEARANCE
SIDE VIEW

36" GRAB BAR
FRONT VIEW

18" GRAB BAR
SIDE VIEW

SANITARY NAP DISPOSAL
SIDE VIEW

MIRROR
SIDE VIEW



LAVATORY
FRONT VIEW

TOWEL DISPENSER
FRONT VIEW

SANITARY DISPENSER
FRONT VIEW

SHELF
FRONT VIEW

ROOM SIGNAGE
FRONT VIEW

BABY CHANGING STATION
FRONT VIEW

WALL MOUNTED DRINKING FOUNTAIN
FRONT VIEW

DRINKING FOUNTAIN
FRONT VIEW

MIRROR
FRONT VIEW

COAT HOOK
FRONT VIEW

BOTTLE FILLING STATION
FRONT VIEW

SOAP DISPENSER
FRONT VIEW

1. WATER CLOSET SHALL BE LOCATED 18" FROM SIDEWALL. THE HEIGHT TO THE TOP OF THE TOILET SEAT SHALL BE 17" TO 19".
2. GRAB BARS SHALL BE 1 1/2" DIA. MOUNTED 33-36" A.F.F. SIDE WALL: FULL WIDTH, CONNECTING TO GRAB BAR ON BACK WALL. BACK WALL: FULL WIDTH, CONNECTING TO GRAB BARS ON SIDE WALLS.
3. GRAB BARS @ WATER CLOSET SHALL BE 1 1/2" DIA MOUNTED 33-36" A.F.F. SIDE WALL: HORIZONTAL @42"LONG, 12" FROM BACK WALL. VERTICAL @18"LONG MIN. 39"-41" FROM BACK WALL, 39"-41" A.F.F. FROM BOTTOM OF BAR. BACK WALL: 36" LONG, WATER CLOSET ON CENTER.
4. TOILET PAPER DISPENSERS SHALL BE INSTALLED ON THE SIDEWALL, BELOW THE GRAB BAR, AT MIN. 19" ABOVE THE FLOOR, AND A MAX. 36" FROM THE REARWALL. DISPENSERS THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
5. LAVATORIES SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34" ABOVE THE FINISH FLOOR. IT SHALL EXTEND 17" MIN. FROM THE WALL. CLEARANCE OF 29" MIN SHALL BE PROVIDED FROM FINISH FLOOR TO BOTTOM OF APRON. KNEE CLEARANCE OF 27" MIN. BY 8" MIN. UNDER THE EDGE OF THE LAVATORY. HOT WATER AND DRAINPIPES UNDER LAVATORIES SHALL BE INSULATED TO PROTECT AGAINST CONTACT AND SHALL BE NO ABRASIVE SURFACES.
6. FAUCET SHALL BE LEVER-OPERATED DESIGN.
7. MIRROR SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40" MAX. A.F.F.
8. HANDICAPPED ACCESSIBLE RESTROOM SIGN SHALL MEET ALL THE STANDARDS OF ADA SIGN.
9. RESTROOM SHALL BE 3'-0"X 7'-0" HOLLOW CORD DOOR W/ SELF-CLOSER AND U SHAPED HARDWARE.
10. EXHAUST FAN SHALL BE SWITCHED WITH LIGHT.
11. ACCESSIBLE ROUTE SHALL HAVE A RUNNING SLOPE OF 1:20 MAX. AND A CROSS SLOPE OF 1:50 MAX.

01 EQUIPMENT SCHEDULE

NO	DESCRIPTION	MODEL	MANUFACTURER	CONNECTIONS							GAS	
				NSF	AGA	UL	VOLTS	AMPS	HP	KW	BTU	SIZE
1	SODA REF.	T23	TRUE	X		X	115	6.50000	1 / 3	1		
3	DEEP FRYER	PER OWNER	PITCO	X							1 / 2	110K X3
4	WORK TABLE	PER OWNER		X	X							
5	CHINESE STOVE	WR-500 BY OWNER			X	X					1.50000	100,000 X6
6	GREASE TRAP	PER PLUMBING SHEET										
7	EXHAUST HOOD	19' TYPE 1	WIN	X		X						
8	RICE COOKER	BY OWNER	GREAT CHINA	X	X						1 / 2	20,000
9	3 COMP SINK	BY OWNER	EAGLE	X								
10	WORK TABLE	BY OWNER	ADVANCE TABCO									
11	FOOD SINK	BY OWNER	EAGLE	X								
13	BAN MARIE	BY OWNER	BEVERAGE AIR	X			115	8.50000	1 / 4	1		
14	RICE WARMER	BY OWNER	TARHONG	X		X	115	77 W		1		
15	DOUBLE DECK SHELF	20" X 13'	WIN	X								
16	FOOD WARMER	TABLE TOP	WIN	X		X	115	6.5	1 / 3	1		
17	HAND SINK	HSA-10-F	EAGLE									
18	MOP SINK (RELOCATE EXISTING)	1818-1	EAGLE	X								
19	WIRE SHELVES	1872Z	EAGLE	X								
20	WALK-IN COOLER	6' X 7'-8" GC VIF	AMERIKOOLER	X		X	SEE E SHEET FOR MORE DETAILS					
21	REACH-IN FREEZER	5'-0"	BEVERAGE AIR	X		X	116	8.5	1 / 4	2		

2

NOTE:
1. "BY OWNER": EQUIPMENT PROVIDE BY OWNER AND INSTALL BY GC PER MANUFACTURE'S INSTRUCTION WITH SUFFICIENT POWER IN ACCORDANCE WITH THE LATEST ADOPTED CODE.
2. ALL EQUIPMENT SHALL BE N.S.F. ETL, UL AND/OR CSA/CSA STAR CERTIFY, AND MUST FINALIZED WITH THE OWNER PRIOR TO INSTALLATION. INSTALL PER MANUFACTURE'S MENU.
3. PRIOR TO INSTALLATION, CONTRACTOR SHALL VERIFIED WITH OWNER TO FINALIZE ALL KITCHEN EQUIPMENT FOR ALL NECESSARY INFORMATION, SUCH AS LOCATION, CAPACITY, CONNECTION REQUIREMENT.
4. HOT WATER HEATER EXISTING : GS6-40-BCT 400 , GAS FIRED CONDENSING TYPE, 40 GAL. STORAGE, 40000 BTU INPUT, 42 GPH RECOVERY @ 90 DEGREE F RISE, MAIN AND PILOT AUTOMATIC GAS VALVES, 120 VOLT, VENT TERMINAL KIT, TEMPERATURE AND PRESSURE RELIEF VALVE. PROVID AS REQUIRED HOT WATER EXPANSION TANK: AMTROL, #ST-12, 4.4 GAL EXPANSION TANK WITH DIAPHRAGM.
5. PER NFPA 17A AND 96, ALL CASTER-MOUNTED EQUIPMENT UNDER FIRE SUPPRESSION SYSTEM SHALL BE LOCKED IN PLACE WITH DORMONT SAFETY-SET CASTER PLACEMENT SAFETY SET SYSTEM, OR EQUAL.

02 INTERIOR FINISH SCHEDULE

ROOM NAME	FLOOR	CEILING	WALL
DINING	CERAMIC TILE WITH MATCHING COVE BASE	GYPSUM BOARD WITH 2 COATS OF GLOSSY PAINT	2-COATS OF WASHABLE PAINT
RESTROOM	CERAMIC TILE WITH MATCHING COVE BASE	VINYL COATED CT	CERAMIC TILE FLOOR TO CEILING
KITCHEN	CERAMIC TILE WITH MATCHING COVE BASE	2x2 LAY-IN CEILING TILE, GENESIS: SMOOTH PRO OR EQUAL	STAINLESS STEEL OR FRP

03 DOOR SCHEDULE

DOOR LOCATION	MATERIAL	SIZE	REMARKS
			HEAVY DUTY COMMERCIAL, ANSI, ADA
EXISTING FRONT EXTERIOR DOOR	EXISTING STORE FRONT ALUMINUM	3'-0" X 7'-0"	TIGHT FITTING, CLOSER
NEW RESTROOM DOOR	WOOD-SC, METAL FRAME, PREHUNG	3'-0" X 6'-8"	CLOSER, TIGHT FITTING, PRIVACY LOCK SET
EXISTING REAR EXTERIOR DOOR	HOLLOW MTL DR/FRAME, PREHUNG	3'-0" X 7'-0"	TIGHT FITTING CLOSER, EXISTING LOCKS TO REMAIN

NOTES:
1. LATCH SIDE CLEARANCES AT ALL DOORWAYS SHALL BE IN ACCORDANCE W/ A 117.1 AND IN COMPLIANCE WITH IBC 2018 1008 AND 1010.1.99
2. ALL EXITS TO BE LABELED.
3. INTERIOR TO BE LABELED AS TO INTENDED USE.
4. PANIC HARDWARE ON ALL EXTERIOR DOORS
5. THE OPERATING DEVICE ON ALL DOORS SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
6. LANDING SHALL BE PROVIDED AT EVERY REQUIRED EXIT AND THEY SHALL BE A MINIMUM OF 36 INCHES IN WIDTH AND 44 INCHES LONG IN THE DIRECTION OF TRAVEL.

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PROJECT:

DRAGON J

214 NW OLDHAM
PWKY LEE SUMMIT, MO
64081

STATE OF MISSOURI
02/04/2025
YUEH-LI JEAN
SUN KAO
NUMBER
A-6059
REGISTERED ARCHITECT

SHEET INDEX:

CONSULTANTS:

M/E/P:

GLADFELTER ENGINEERING GROUP
10233 MILLSTONE DRIVE, #4111
LENEXA, KANSAS
66220
TEL: 816-916-4675
EMAIL: GPG@AECONSORT.COM

ISSUE PACKAGE:

NO:		DATE:
1	CITY COMMENTS	12/30/2024
2	CHANGE ORDER	01/13/2024

OWNER:	
CONTACT:	
DRAWN BY:	JRK
CHECKED BY:	YJK
PROJECT:	TO-GO
PLOT DATE	02/04/2025

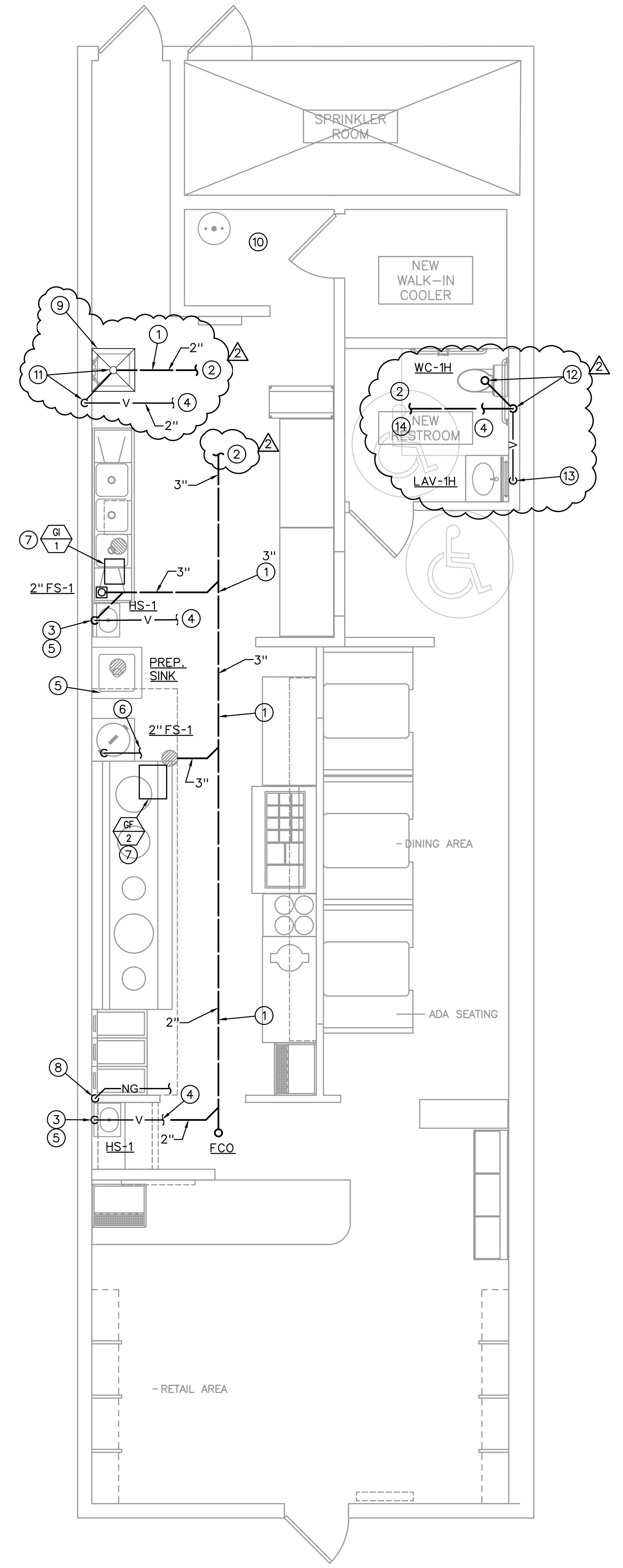
DRAWING

SCHEDULES

SCALE 1/4" = 1'0"

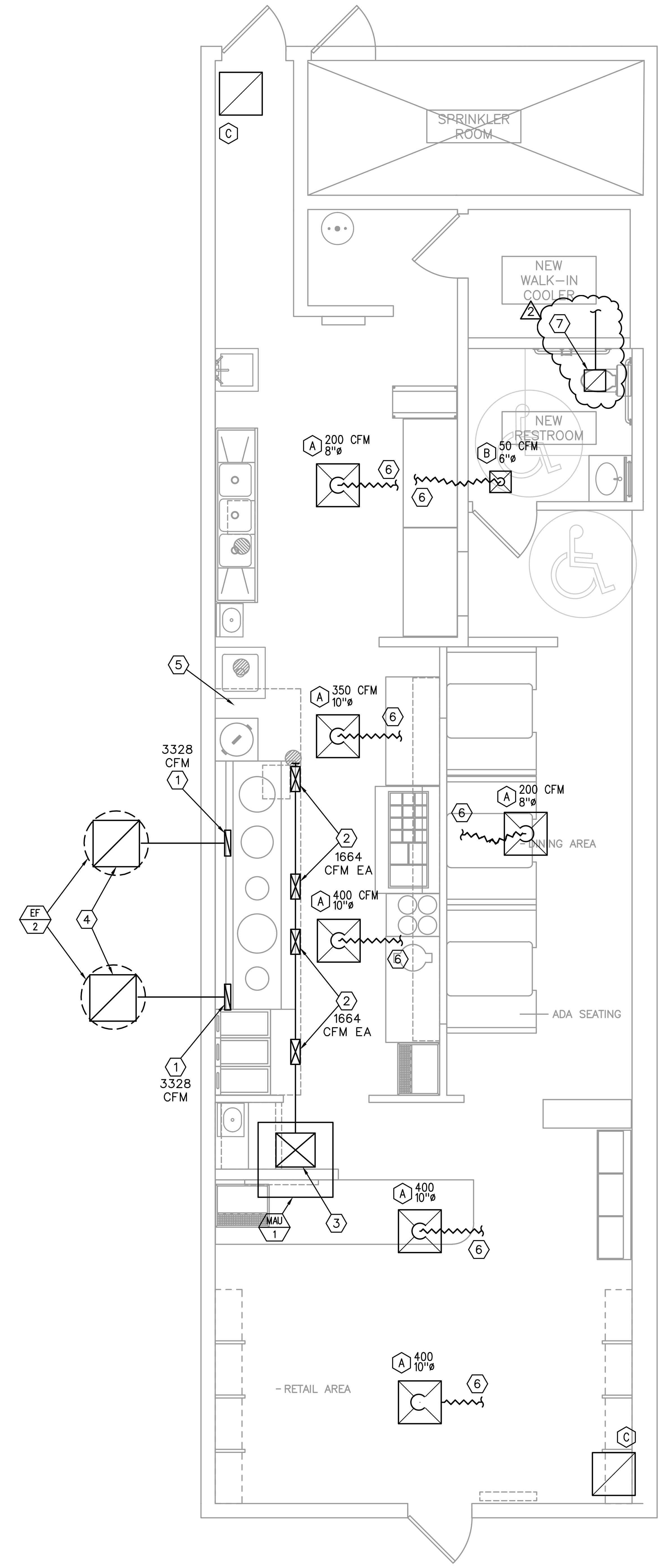
SHEET NUMBER

A102



PLUMBING FLOOR PLAN

1/4" = 1'-0"



MECHANICAL FLOOR PLAN

1/4" = 1'-0"

MECHANICAL PLAN NOTES (#):

1. 20"x14" EXHAUST DUCT DOWN TO TYPE 1 HOOD.
2. 24"x10" MAKE-UP AIR DUCT DOWN TO TYPE 1 HOOD.
3. 22"x19" MAKE-UP AIR DUCT UP THRU ROOF TO MAU-1.
4. 26"x26" EXHAUST DUCT UP THRU ROOF TO EF-2.
5. TYPE 1 HOOD.
6. EXTEND TO EXISTING SHEET METAL SUPPLY AIR DUCT AND MAKE CONNECTION WITH SPIN COLLAR/VOLUME DAMPER.
7. RELOCATE EXHAUST FAN AND CONNECT TO EXISTING EXHAUST DUCT. (2)

PLUMBING PLAN NOTES (#):

1. NEW W PIPING AS INDICATED.
2. EXTEND W PIPING TO NEAREST W OR S PIPING THE SAME SIZE OR LARGER.
3. 2" W DOWN, 1-1/2" V UP TO ABOVE CEILING.
4. EXTEND VENT PIPING TO NEAREST VENT PIPING OF SAME SIZE OR LARGER.
5. EXTEND 1/2" CW AND HW FROM EXISTING CW OR HW PIPING OF THE SAME SIZE OR LARGER.
6. EXTEND 3/4" HW TO CHINESE STOVE FROM EXISTING HW PIPING ¾" OR LARGER.
7. SEE GREASE WASTE RISER DIAGRAMS, SHEET MP300, FOR CONFIGURATION OF WASTE PIPING FROM SINKS OR WOK.
8. 2" NG PIPING DOWN. SEE "GAS RISER DIAGRAM", SHEET MP301, FOR CONTINUATION.
9. RELOCATE EXISTING MOP SINK. (2)
10. PLUMBING AT WATER HEATER SHALL REMAIN AS CURRENTLY INSTALLED.
11. 2" W DOWN, 2" W OVER TO WALL AND UP ABOVE CEILING.
12. 4" S DOWN, 2" V OVER TO WALL AND UP TO ABOVE CEIING.
13. 2" W DOWN, 1-1/2" V UP AND OVER TO 2" V FROM WC-1H.
14. EXTEND 1/2" CW TO WC-1H AND LAV-1H, 1/2" CW TO WC-1H AND LAV-1H, 1/2" HW TO LAV-1H.

MECHANICAL GENERAL NOTES (RTU)

A) COORDINATE LOCATION OF CEILING DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.

B) CONTRACTOR SHALL INSURE THAT A PROPER RETURN AIR PATH EXISTS FROM EACH SPACE. WHERE NOT OTHERWISE INDICATED AND IN RETURN AIR PLENUM APPLICATIONS, PROVIDE FLANGED RETURN AIR OPENINGS ABOVE CEILING LEVEL, THRU WALLS TO STRUCTURE, SO THAT RETURN AIR VELOCITY AND PRESSURE DROP DOES NOT EXCEED 1000 FPM AND 0.065"WG/100' RESPECTIVELY.

C) CONFIRM THAT NO COMBUSTIBLE MATERIALS ARE LOCATED IN CEILING RETURN AIR PLENUMS.

D) ROOF MOUNTED EQUIPMENT SHALL BE LOCATED NO CLOSER THAT 10-0" FROM THE EDGE OF THE ROOF.

E) MAINTAIN 10'-0" SEPARATION FOR OUTSIDE AIR INTAKES AND EXHAUST FAN OUTLETS AND PLUMBING VENTS.

F) TEMPERATURE CONTROL INCLUDES ALL CONTROL WIRING FOR COMPLETE OPERATION OF ROOFTOP UNITS BY MECHANICAL CONTRACTOR ACCORDING TO THE FOLLOWING SEQUENCE OF OPERATIONS:

RTU SEQUENCE OF CONTROL:

PROVIDE A WALL MOUNTED 7-DAY HEATING/COOLING THERMOSTAT FOR EACH ROOFTOP UNIT INSTALLED IN A LOCATION APPROVED BY THE OWNER. INSTALL TAMPERPROOF COVER.

DAY OPERATION - THE TIMECLOCK OR MANUAL OVERIDE FUNCTION SHALL AUTOMATICALLY ACTIVATE THE SYSTEM TO THE "OCCUPIED" OR "DAY" MODE. THE SYSTEM SHALL HEAT OR COOL THE SPACE TO THE DESIRED SET POINTS (MANUAL HEAT OR COOL SETTINGS). IF OUTSIDE AIR FOR VENTILATION IS REQUIRED, OUTSIDE AIR DAMPERS INSTALLED IN THE OUTSIDE AIR DUCT SHALL BE AT THEIR MINIMUM POSITION AND THE FAN SHALL MAINTAIN CONTINUOUS OPERATION.

NIGHT OPERATION - THE TIMECLOCK SHALL AUTOMATICALLY ACTIVATE THE SYSTEM TO THE "NIGHT/UNOCCUPIED" MODE. THE SYSTEM SHALL HEAT OR COOL THE SPACE TO THE DESIRED NIGHT SET POINTS THROUGH THE THERMOSTATS NIGHT/UNOCCUPIED SETPOINTS. IF OUTSIDE AIR FOR VENTILATION IS REQUIRED, OUTSIDE AIR DAMPERS INSTALLED IN THE OUTSIDE AIR DUCT SHALL BE CLOSED AND THE FAN SHALL CYCLE AS NEEDED TO MAINTAIN THE THERMOSTAT SETPOINTS.

ECONOMIZER OPERATION TO ENABLE FREE COOLING SHALL BE A FUNCTION OF THE RTU MANUFACTURER'S STANDARD CONTROLS.

DEHUMIDIFICATION OPERATION, IF PROVIDED, SHALL BE A FUNCTION OF THE RTU MANUFACTURER'S STANDARD CONTROLS. INSTALL HUMIDISTAT ARE RECOMMENDED BY MANUFACTURER.

E. SEE KITCHEN EQUIPMENT PLANS FOR INFORMATION RELATED TO INSTALLATION OF TYPE 1 HOOD, MAKE-UP AIR UNIT AND HOOD EXHAUST FAN.

PLUMBING GENERAL NOTES

A) ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).

B) SEE "GAS CONNECTION DETAIL", SHEET MP300, FOR CONFIGURATION OF NATURAL GAS PIPING AT APPLIANCE CONNECTION.

C) REFER TO FOOD SERVICE DRAWINGS FOR SINKS, EQUIPMENT AND APPLIANCES PROVIDED BY THE KEC.

D) PC SHALL ROUGH-IN AND MAKE FINAL CONNECTION FOR ALL SINKS, EQUIPMENT APPLIANCES AND ACCESSORIES PROVIDED BY THE KEC. 3-COMPARTMENT SINK AND HAND SINK, AND ASSOCIATED FAUCETS, ARE PROVIDED BY THE KEC. WHERE REQUIRED, PC TO PROVIDE BASKET STRAINER DRAIN, TAILPIECE, 3/8-INCH FLEXIBLE RISERS W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW.

E) CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. FIELD VERIFY LOCATION OF EXISTING UTILITIES.

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
01/27/2022

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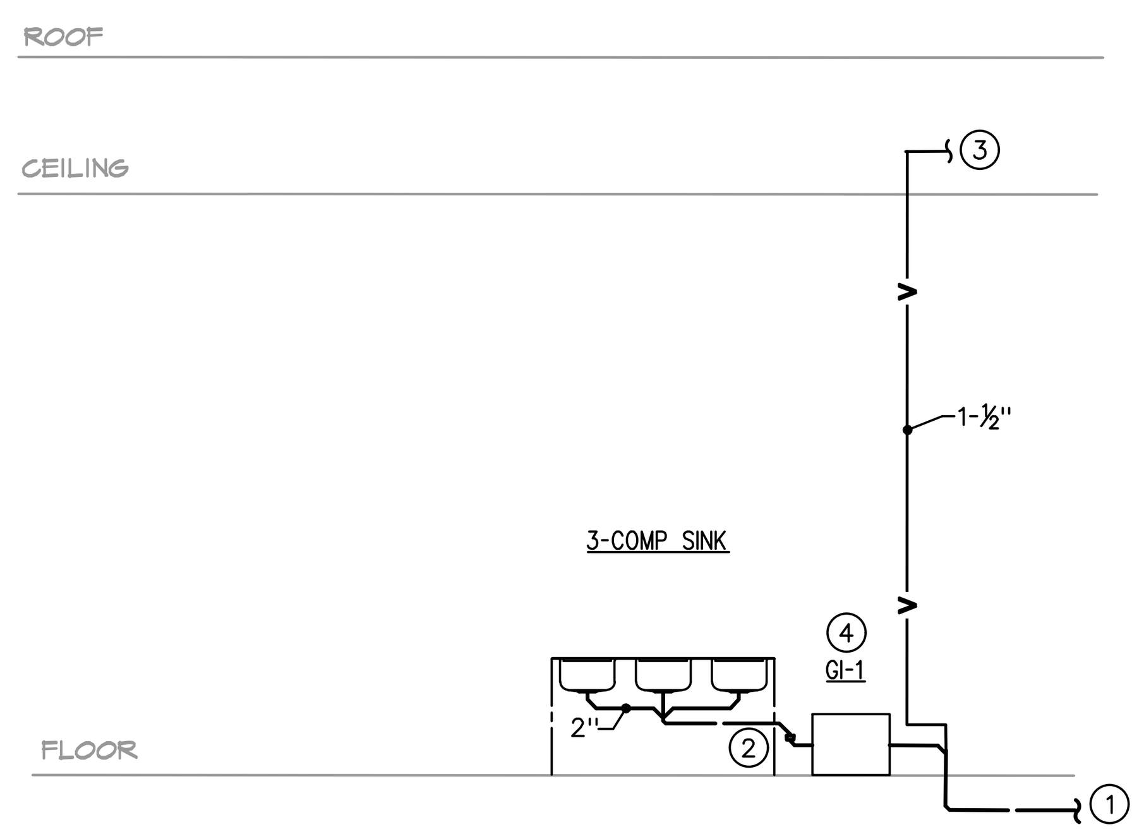
Date:	Issued for:
11/07/24	PERMIT
12/03/24	(1) CITY COMMENTS
01/27/25	(2) CHANGE ORDER

Project number: 24-242

Drawn: JEE/SWB/GPG

Date: 2025/01/22

Sheet Number: MP200

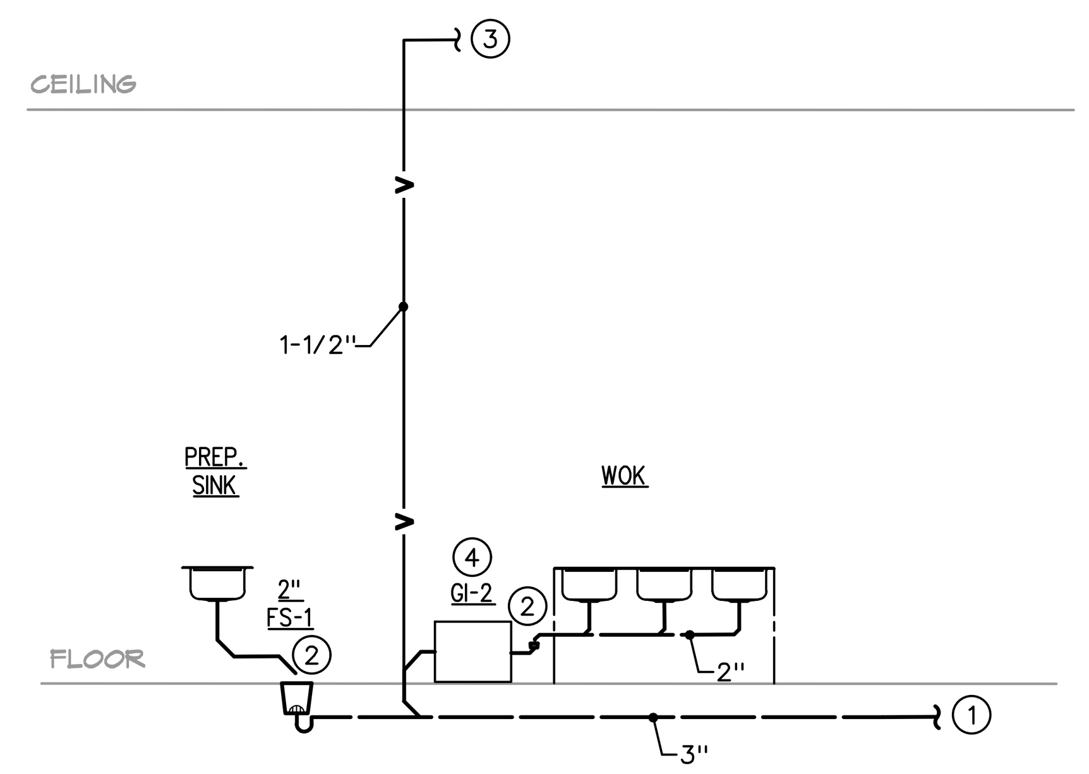


GREASE WASTE & VENT RISER DIAGRAM (GI-1)

NO SCALE (RISER FOR WOK'S SIMILAR EXCEPT RECESSED GI)

GREASE WASTE RISER DIAGRAM NOTES

1. SEE THE PLUMBING PLAN FOR CONTINUATION.
2. AIR-GAP DRAIN FROM FIXTURE ABOVE AIR GAP FITTING.
3. CONNECT TO NEAREST VENT PIPING 1-1/2" OR LARGER.
4. SPECIFIED GREASE INTERCEPTOR PROVIDED WITH INTERNAL FLOW CONTROL.



GREASE WASTE & VENT RISER DIAGRAM (GI-2)

NO SCALE (RISER FOR WOK'S SIMILAR)

GREASE INTERCEPTOR CALCULATION (GI-1)

3-COMPARTMENT SINK - THREE (3) 24"x24"x14" BOWLS

(24"x24"x14") x 3 = 24,192 CUBIC INCHES

24,192 CUBIC INCHES/231 GALLONS/CUBIC INCH = 105 GALLONS

105 GALLONS x .65FILL CAPACITY FACTOR = 68 GALLONS

FOR A 2 MINUTE DRAINAGE RATE - 34 GPM IS REQUIRED.

GREASE INTERCEPTOR GI-2 SHALL BE A SCHIER GREAT BASIN MODEL GB2, 35 GPM, 130# GREASE RETENTION, 3/4" INLET AND OUTLET.

GREASE INTERCEPTOR CALCULATION (GI-2)

GREASE INTERCEPTOR CALCULATION (GI-2)

WOK VOLUME = 4950 CUBIC INCHES

4950 CUBIC INCHES/231 GALLONS/CUBIC INCH = 22 GALLONS

FOR A 1 MINUTE DRAINAGE RATE - 22 GPM IS REQUIRED.

GREASE INTERCEPTOR GI-1 SHALL BE A SCHIER GREAT BASIN MODEL #GB1, 25 GPM, 64# GREASE RETENSION, 2/3" INLET AND OUTLET.

DIFFUSER SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	FACE SIZE (INCHES)	MOUNTING	REMARKS
A	TITUS	TMS	24x24	LAY-IN	1,2,3
B	TITUS	TMS	12x12	SURFACE	1,2,3
C	TITUS	PAR	24x24	LAY-IN	2,4

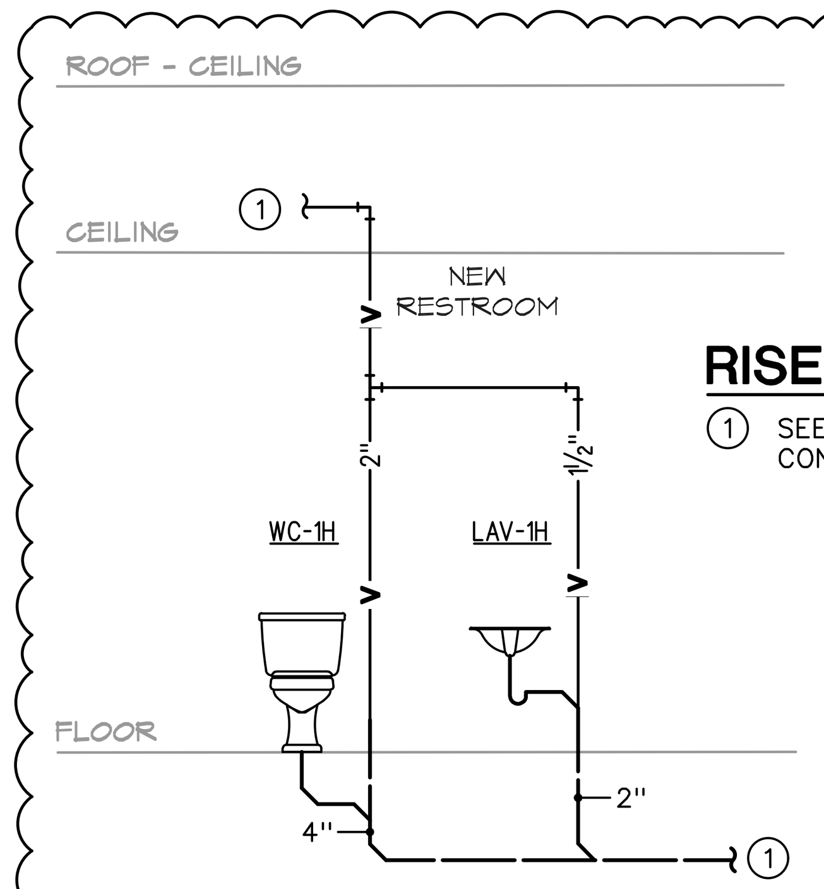
NOTES:
1. SEE THE PLANS FOR NECK SIZE.
2. COLOR PER ARCHITECT.
3. PROVIDE DAMPER AT DUCT TAKE-OFF EXCEPT PROVIDE GRILLE MOUNTED DAMPER WHERE OUTLET IS ABOVE INACCESSIBLE CEILING.
4. PROVIDE WITH DAMPER OR EXTRACTOR IF REQUIRED FOR BALANCING.

MECHANICAL SYMBOLS

- NEW SHEET METAL DUCTWORK & SIZE.
- NEW SHEET METAL DUCTWORK & SIZE.
- SUPPLY AIR DUCT OR OUTSIDE AIR INTAKE.
- RETURN AIR DUCT OR EXHAUST AIR DUCT.
- DIRECTION OF RETURN AIRFLOW.
- THERMOSTAT OR TEMPERATURE SENSOR.
- —CD— CONDENSATE DRAIN.
- ELBOW DOWN.
- ELBOW UP.
- SA SUPPLY AIR.
- OA OUTSIDE AIR.
- RA RETURN AIR.
- EA EXHAUST AIR.
- CU CONDENSING UNIT.
- EF EXHAUST FAN.
- RTU ROOFTOP UNIT.
- PLAN NOTE DESIGNATION.
- PLAN REVISION DESIGNATION.
- CONNECT TO EXISTING.
- MECHANICAL EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (RTU, EF, HP, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

PLUMBING SYMBOLS

- EXISTING TO REMAIN.
- NEW PIPING WORK.
- DOMESTIC COLD WATER (CW).
- DOMESTIC HOT WATER (HW).
- HOT WATER RECIRCULATION (HWR).
- —V— PLUMBING VENT ABOVE FLOOR (V).
- —SAN— SANITARY WASTE ABOVE FLOOR (W).
- SANITARY WASTE BELOW FLOOR (W).
- —NG— GAS (NATURAL) (NG).
- ELBOW DOWN.
- ELBOW UP.
- TEE DOWN.
- TEE UP.
- CAP.
- PIPE UNION.
- 1/4 TURN SHUT-OFF VALVE.
- CHECK VALVE.
- PUMP
- VTR VENT THRU ROOF (VTR).
- ETR EXISTING TO REMAIN.
- PLAN NOTE DESIGNATION.
- PLAN REVISION DESIGNATION.
- CONNECT TO EXISTING.
- PLUMBING EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (HW, RTU, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

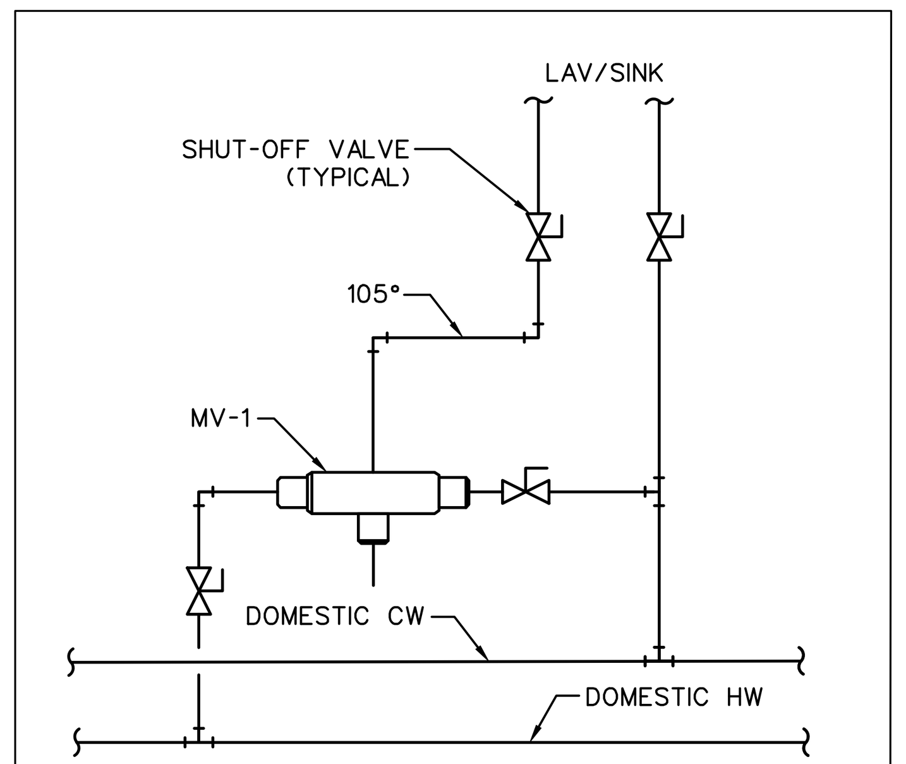


RISER DIAGRAM NOTES

1. SEE THE PLUMBING PLAN FOR CONTINUATION.

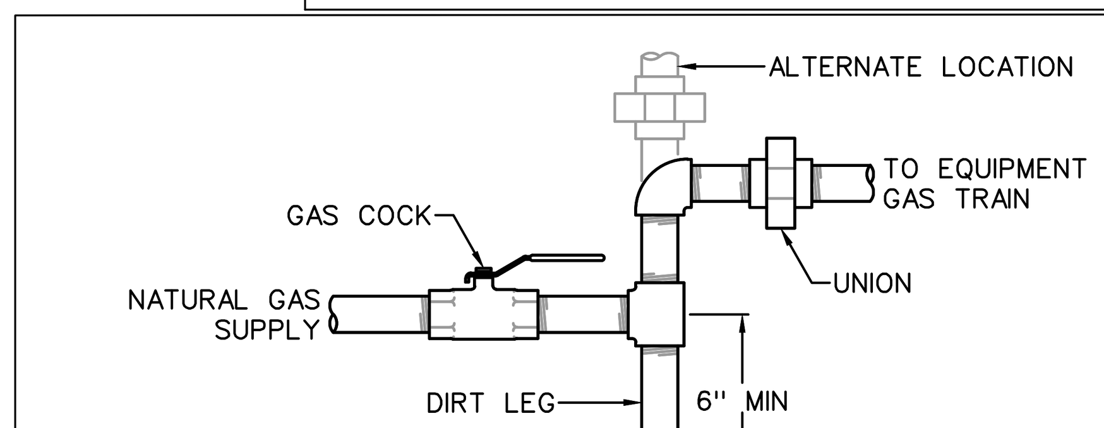
PLUMBING RISER DIAGRAM

NO SCALE



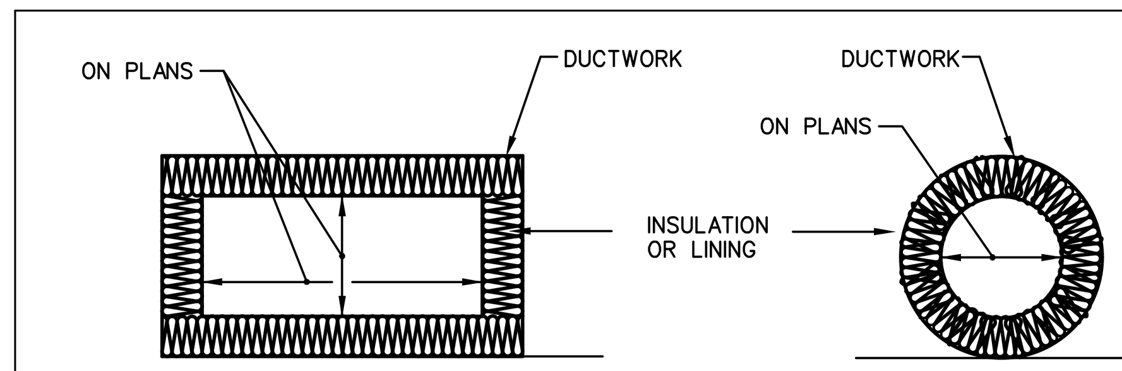
1 MP300 MIXING VALVE DETAIL

NO SCALE



2 MP300 GAS EQUIPMENT CONNECTION DETAIL

NO SCALE



DUCT INSULATION SCHEDULE							NOTES
	INTERNAL INSULATION			EXTERNAL INSULATION			
	1/2"	1"	OTHER	1"	2"	OTHER	
LOW VELOCITY DUCTS:							
RETURN DUCTS		o					1
SUPPLY DUCTS (RECT.)		o					
SUPPLY DUCTS (ROUND)					o		3,4
EXHAUST DUCTS	o			o			2
OUTSIDE AIR DUCTS				o			
RELIEF DUCTS	o						1
MEDIUM/HIGH VELOCITY DUCTS:							
ROUND SUPPLY				o			
FLAT OVAL SUPPLY				o			

NOTES:
1. INSULATION SHALL BE INSTALLED WHEN INDICATED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. OTHERWISE, NO INSULATION IS REQUIRED.
2. INSULATION IS REQUIRED WITHIN 6'-0" OF TERMINATION POINT OF EXHAUST AIR. RECTANGULAR DUCTS SHALL BE LINED, ROUND DUCTS SHALL BE WRAPPED.
3. CONCEALED ROUND SUPPLY AIR DUCTS AND ROUND SUPPLY AIR DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED AS INDICATED AND SHALL INCLUDE A VAPOR BARRIER TO PREVENT CONDENSATION FROM FORMING ON COLD METAL SURFACES. NO INSULATION IS REQUIRED FOR ROUND SUPPLY AIR DUCT EXPOSED IN CONDITIONED SPACES UNLESS INDICATED OTHERWISE.
4. AT CONTRACTORS OPTION, GALVANIZED STEEL ROUND DOUBLE WALL DUCT MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DOUBLE WALL DUCT SHALL BE LINX LINDLAB SPIRO-SAFE SPIRAL LOCKSEAM DUCTWORK. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. AT CONTRACTOR'S OPTION, ROUND DUCT LINER MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DUCT LINER SHALL BE JOHNS MANVILLE SPIRACOUSTIC PLUS, OR APPROVED EQUAL, 1.5" THICK (R6.4). SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

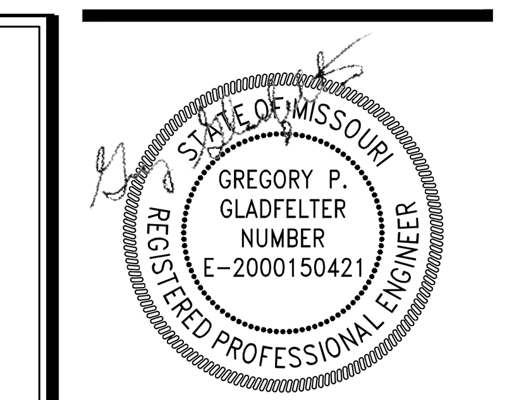
3 MP300 INSULATED OR LINED DUCT DETAIL

NO SCALE

OUTSIDE AIR SUMMARY (SINGLE ZONE SYSTEMS) (NOTES 2 & 3)

SYSTEM	SPACE	AREA (SQUARE FEET)	CALCULATED OCCUPANT TOTAL (Pz)	VENTILATION RATE (CFM/PERS) (Rp)	AREA OUTDOOR AIRFLOW IN BREATHING ZONE (Ra) CFM/SF	SPACE OUTDOOR AIRFLOW IN BREATHING ZONE Vbz=RpPz+RaAz CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) COOLING/HEATING (NOTE 1)	ZONE OUTDOOR AIRFLOW (Voz=Vbz/Ez) COOLING	ZONE OUTDOOR AIRFLOW (Voz=Vbz/Ez) HEATING	ZONE OUTDOOR AIR SETPOINT (CFM)	EXHAUST REQUIRED (CFM) (NOTE 5)	REMARKS
RTU-1	KITCHEN (COOKING)	389	8	7.5	0.12	106.68	1.0/0.8	106.68	133.35	134	272	6
(5-TON)	DINING ROOM	667	47	7.5	0.18	472.56	1.0/0.8	472.56	590.70	591		
	CORRIDOR	44	0	5	0.06	2.64	1.0/0.8	2.64	3.30	4		
	STORAGE	32	0	0	0.12	3.84	1.0/0.8	3.84	4.80	5		
	RESTROOM	61									140	
	TOTAL	**1,193**	**55**							**734**	**412**	

1. ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) DETERMINED FROM TABLE 403.3.1.2 AND IS BASED ON AIR DISTRIBUTION CONFIGURATION IN ACCORDANCE WITH THE 2018 IMC.
2. CALCULATION DONE IN ACCORDANCE WITH 2018 IMC, CHAPTER 4.
3. VENTILATION AIR PROVIDED BY DIRECT CONNECTION TO THE OUTDOORS IN ACCORDANCE WITH SECTION 401, 2018 IMC.
4. BATHROOM MINIMUM EXHAUST AIR PROVIDED AT MINIMUM 70 CFM PER FIXTURE IN ACCORDANCE WITH CHAPTER 4, 2018 IMC.
5. SPACE EXHAUST REQUIRED AT THE INDICATED RATE.
6. MINIMUM KITCHEN EXHAUST AIR PROVIDED AT 0.7 CFM/SQUARE FOOT IN ACCORDANCE WITH CHAPTER 4, 2018 IMC (ACTUAL EXHAUST MAY BE HIGHER DUE TO MAKE-UP REQUIRED FOR THE TYPE 1 HOOD).



01/27/2022

DRAGON J
204 NW OLDHAM PKWY
LEE'S SUMMIT, MO

Gladfelter Engineering Group

Date:	Issued for:
11/07/24	PERMIT
12/03/24	1 CITY COMMENTS
01/27/25	2 CHANGE ORDER

Project number: 24-242

Drawn: JEE/SWB/GPG

Date: 2025/01/22

Sheet Number: MP300

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FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	CFM	ESP IN W.G.	TYPE	FAN SIZE	RPM	DRIVE	ACCESSORIES	ELECTRICAL VOLT	ELECTRICAL Ø	ELECTRICAL HZ	ELECTRICAL HP/W	REMARKS
1	COOK	GC-182	100	.25	CEILING	-	-	D	-	120	1	60	185 W	NOTE 1
2A/2B	LARKIN	XCUBE-180	3328	1.125	ROOF	-	-	B	-	208	1	60	1.5 HP	NOTE 2,3

NOTES:
1. PROVIDE CEILING FANS WITH CEILING GRILLE, DISCONNECT SWITCH, HANGER HARDWARE, BACKDRAFT DAMPER, UNIT MOUNTED VARIABLE SPEED SWITCH, WALL OR ROOF CAP, FLEX CONNECTOR, SWITCH WITH LIGHTS.
2. MAKE-UP AIR UNIT, KITCHEN HOOD AND HOOD EF PROVIDED BY THE KEC AS A PACKAGED SYSTEM. SEE LARKIN DRAWINGS. MC SHALL INSTALL SYSTEMS PER MANUFACTURES INSTRUCTIONS.
3. INTERLOCK TO OPERATE WHENEVER KITCHEN APPLIANCES ARE IN OPERATION. SEE LARKIN DRAWINGS FOR CONTROL DIAGRAMS.

LARKIN MAKE-UP AIR UNIT SCHEDULE (DX COOLING/NG HEATING)

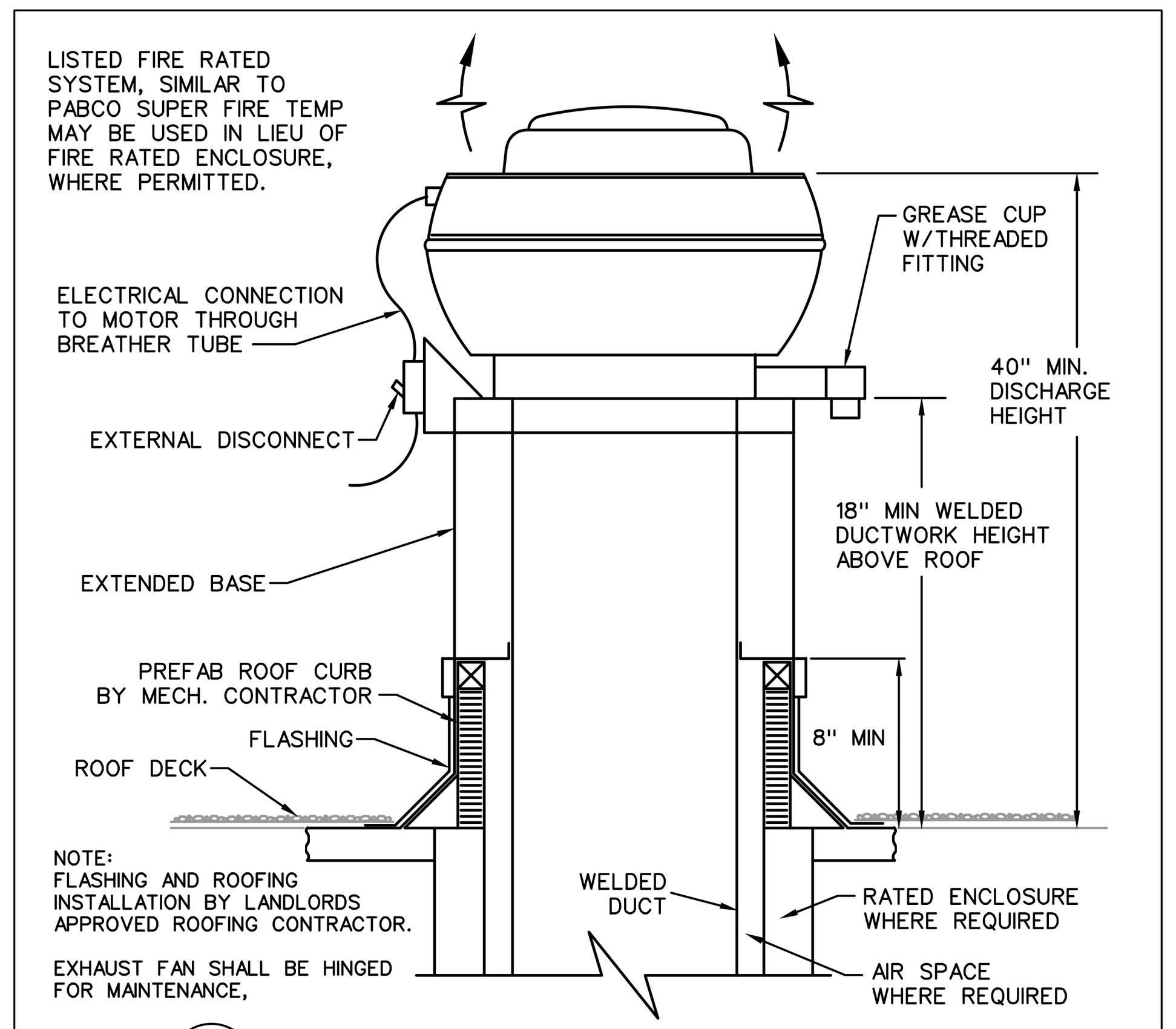
UNIT	LOCATION	"MFR" MODEL NO.	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PHASE	SUPPLY FAN HP	SUPPLY FAN FLA	MCA	MOCP	OPER. WT. (LBS.)	REMARKS
MAU-1	ROOF	ARS-18	6656	0.5	208/3	3.0	10.6	-	20	-	NOTE 1,2

NOTES:
1. MAKE-UP AIR UNIT, KITCHEN HOOD AND HOOD EF PROVIDED BY THE KEC AS A PACKAGED SYSTEM. SEE LARKIN DRAWINGS. MC SHALL INSTALL SYSTEMS PER MANUFACTURES INSTRUCTIONS.
2. INTERLOCK TO OPERATE WHENEVER KITCHEN APPLIANCES ARE IN OPERATION. SEE LARKIN DRAWINGS FOR CONTROL DIAGRAMS.

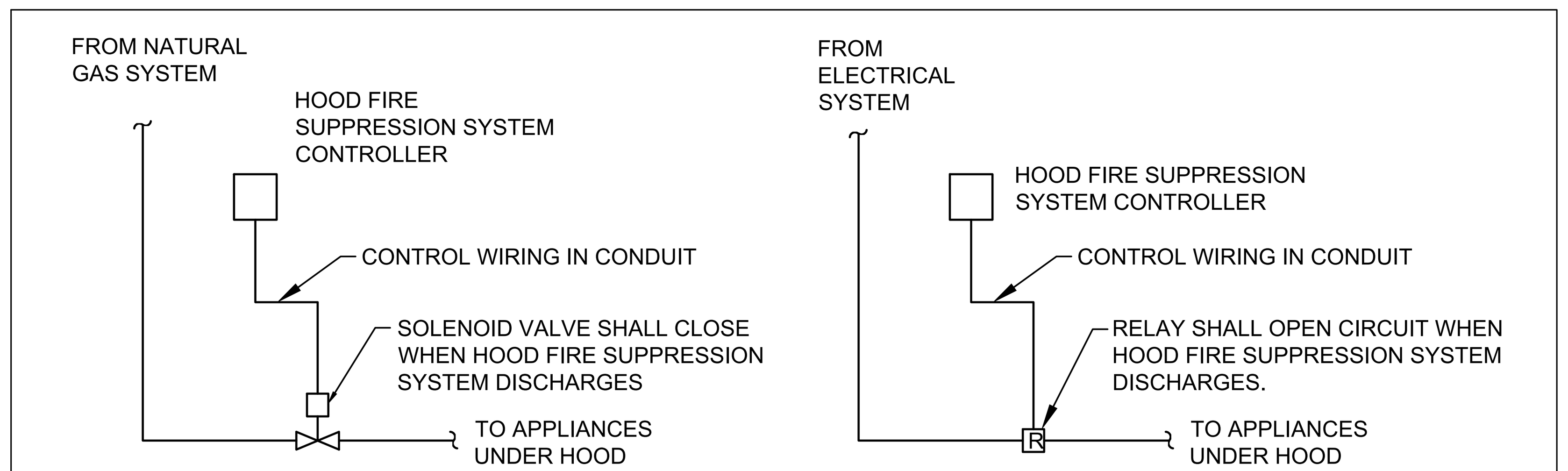
AIR BALANCE SCHEDULE

PLAN MARK	AREA SERVED	OUTSIDE AIR CFM	EXHAUST AIR CFM	NOTES
RTU-1	C-STORE	100		
MAU-1	TYPE 1 HOOD	6656		
EF-2A	TYPE 1 HOOD		3328	
EF-2B			3328	
EF-1	RESTROOM (2)		100	
	SUBTOTAL	6756	6756	

NOTES:
1. OUTSIDE AIR CFM INDICATED FOR OPERATION IN CONJUNCTION WITH TYPE 1 HOOD EXHAUST AND MAKE-UP AIR SYSTEM. CFM MAY REVERT TO MINIMUM OA AS CALCULATED IN "OA CALCULATION" WHEN THESE SYSTEMS ARE OFF.



1/MP301 KITCHEN HOOD EXHAUST FAN DETAIL
NO SCALE



3/MP301 KITCHEN HOOD EMERGENCY SHUT-OFF
NO SCALE

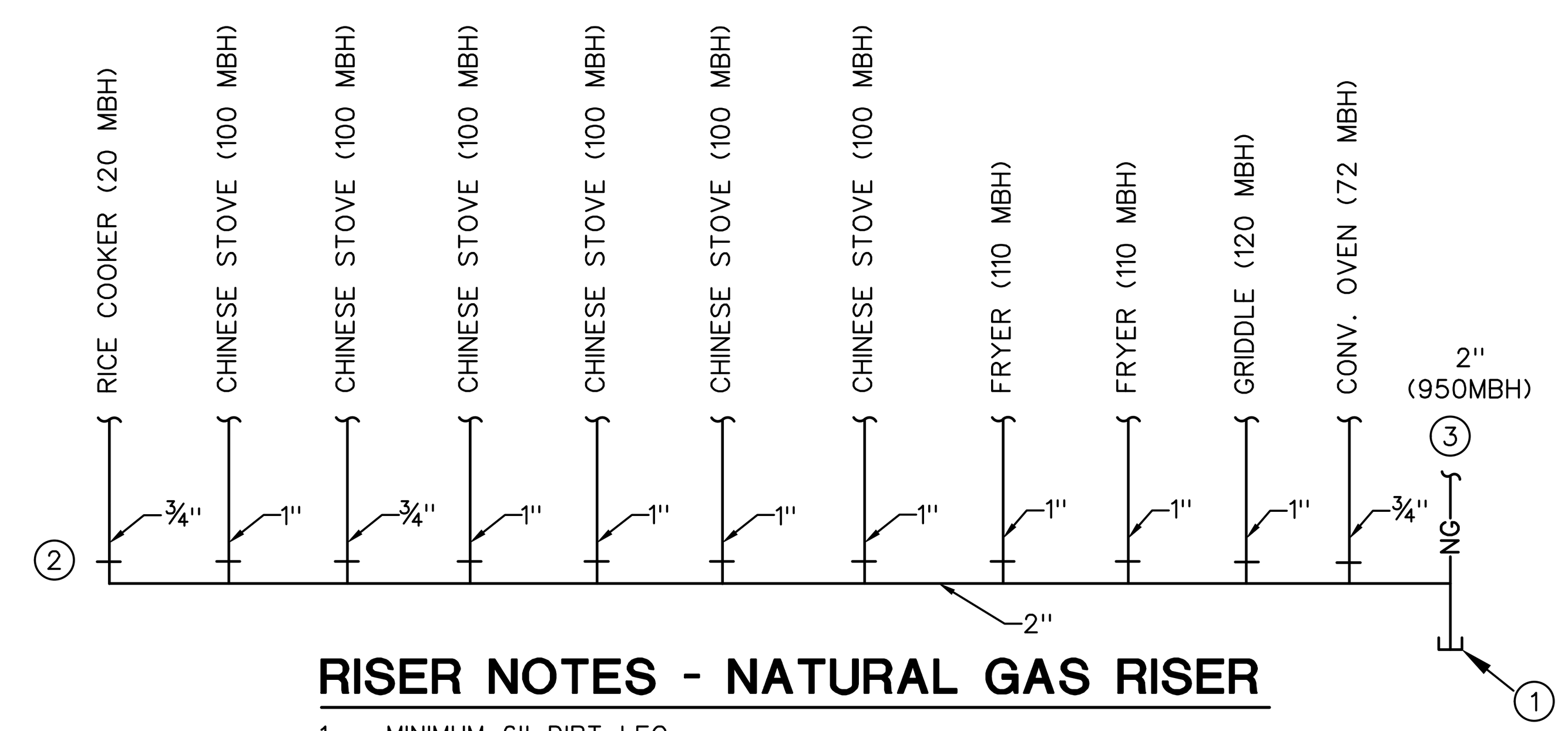
MECHANICAL SPECIFICATION

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. COOLING EQUIPMENT LOCATED WHERE DAMAGE FROM OVERFLOW COULD OCCUR AND ELSEWHERE AS INDICATED, SHALL BE MOUNTED IN SECONDARY CONTAINMENT PANS WITH HIGH WATER ALARM SENSOR TO SHUT DOWN THE EQUIPMENT. THE DRAIN PAN SHALL BE PIPED TO FLOOR DRAIN, TO EXTERIOR OR ELSEWHERE AS SHOWN, MINIMUM SIZE SHALL BE 3/4".
3. COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WTIH LOCAL JURISDICTION REQUIREMENTS AND AS SHOWN ON ARCHITECTURAL DRAWINGS.
4. DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
5. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS, MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED, EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.
6. DUCT RUNOUT SIZES NOT SHOWN SHALL BE THE SAME SIZE AS THE DIFFUSER NECK CONNECTION.
7. RECTANGULAR DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR 1" DUCT LINER IN LOW VELOCITY DUCTS WHERE APPLICABLE. CONCEALED ROUND DUCTS SHALL BE INSULATED WITH 2" DUCT WRAP. EXPOSED ROUND DUCTS DO NOT NEED TO BE INSULATED.
8. ROUND OR OVAL EXPOSED DUCT SHALL BE SPIRAL DUCT, PAINT GRADE WHERE SCHEDULED BY ARCHITECT TO BE PAINTED.
9. FLEX DUCT SHALL BE UL CLASS 1 AIR DUCT SUITABLE FOR +/- 2" WG PRESSURE WITH 1-1/2" FIBERGLASS INSULATION WITH ALL SERVICE JACKET, 5' MAXIMUM LENGTH, ENDS BANDED IN PLACE AND TAPED WITH FOIL TAPE. ADEQUATELY SUPPORT FLEX DUCT TO PREVENT KINKS OR OBSTRUCTIONS. PROVIDE SHEET METAL ELBOW OR THERMAFLEX 'FLEXFLOW' ELBOW SUPPORT AT DIFFUSER CONNECTION.
10. PROVIDE FLEXIBLE FABRIC CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.
11. CONTRACTOR SHALL INSURE THAT A PROPER RETURN AIR PATH EXISTS FROM EACH SPACE. WHERE NOT OTHERWISE INDICATED AND IN RETURN AIR PLENUM APPLICATIONS, PROVIDE FLANGED RETURN AIR OPENINGS ABOVE CEILING LEVEL, THRU WALLS TO STRUCTURE, SO THAT RETURN AIR VELOCITY AND PRESSURE DROP DOES NOT EXCEED 1000 FPM AND 0.065"WG/100' RESPECTIVELY.
12. TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAT SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1"/20' MINIMUM IN DIRECTION OF FLOW.
13. CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
14. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
15. ALL ROOF MOUNTING, FLASHINGS AND PENETRATION WORK ASSOCIATED WITH MECHANICAL AND PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS.
16. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.
17. TEST AND BALANCE ALL SYSTEMS.

1

PLUMBING SPECIFICATION

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN VALVES AT LOW POINTS.
3. DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.
4. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
5. CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
6. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
7. ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS, EXCEPT USE STANDARD WEIGHT NO-HUB CAST IRON IN AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS. PAINT ALL EXTERIOR PIPING WITH UV RESISTANT PAINT.
8. ABOVE GROUND WATER PIPING SHALL BE COPPER OR CROSS LINKED POLYETHELYNE (PEX).
9. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
10. DOMESTIC WATER PIPING SHALL BE INSULATED WITH FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH MAXIMUM SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL. INSULATION SHALL HAVE A CONDUCTIVITY RATING BETWEEN 0.21 AND 0.28 AND HAVE A THICKNESS OF 1" FOR PIPING LESS THAN 1-1/2" AND A THICKNESS OF 1-1/2" FOR PIPING 1-1/2" AND LARGER.
11. NATURAL GAS PIPING (ABOVE GROUND) SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. CONNECT USING JOINT COMPOUND SUITABLE FOR NATURAL GAS PIPING. ALL EXPOSED BLACK STEEL NATURAL GAS PIPING SHALL BE PROTECTED WITH A RUST INHIBITING COATING IN ACCORDANCE WITH THE PLUMBING CODE.
12. GAS SERVICE VALVES TO BE LUBRICATED PLUG COCKS, ROCKWELL 142 OR 143. CONNECTIONS TO EQUIPMENT SHALL HAVE SERVICE VALVES, 6" MINIMUM DIRT LEG AND UNION OR AT CONTRACTOR OPTION, UL LISTED APPLIANCE FLEXIBLE CONNECTORS MAY BE USED.
13. PROVIDE PLUMBING FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. PROVIDE STOP VALVES AND WATER HAMMER ARRESTORS, SIZED AS INDICATED OR PER MANUFACTURER FOR EACH FIXTURE OR EACH GROUP OF FIXTURES. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
14. MEET ALL REQUIREMENTS OF THE ADA FOR ALL FIXTURES REQUIRED TO BE HANDICAP ACCESSIBLE. INSULATE PIPING BENEATH HANDICAP FIXTURES PER ADA, HANDI-LAV-GARD SYSTEM OR EQUIVALENT.
15. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.



RISER NOTES - NATURAL GAS RISER

1. MINIMUM 6" DIRT LEG
2. MAKE FINAL CONNECTION TO KITCHEN EQUIPMENT WITH BALL VALVE AND HOSE PROVIDE BY THE KEC (TYPICAL).
3. 2" NG FROM SAFETY SHUTOFF VALVE.

1/M301 NATURAL GAS RISER
NO SCALE

COMMERCIAL-KITCHEN HOOD/EXHAUST/MAKE-UP AIR SYSTEM:

THE HOOD SHALL BE CONSTRUCTED OF A MINIMUM OF 18 GAUGE, (TYPE 304) STAINLESS STEEL WITH A #3 FINISH. HOOD SHALL BE CONSTRUCTED USING THE STANDING SEAM METHOD FOR OPTIMUM STRENGTH. THE SEAMS ON THE CANOPY SHALL BE WELDED LIQUID TIGHT, AND ALL EXPOSED EXTERNAL WELDS SHALL BE GROUND AND POLISHED TO MATCH THE ORIGINAL FINISH OF THE METAL. LIGHTER MATERIAL GAUGES, ALTERNATE MATERIAL TYPES AND FINISHES (400 SERIES STAINLESS STEEL, COLD ROLLED STEEL, ETC.) AND NON-LIQUID TIGHT WELDING (TACK WELD, SPOT WELD, ETC.) IS NOT ACCEPTABLE. CONSTRUCTION SHALL INCLUDE CORROSION-RESISTANT STEEL FRAMING MEMBERS FOR STRENGTH

HOOD SHALL INCLUDE UL LISTED AND NSF CERTIFIED GREASE EXTRACTOR TYPE, HIGH EFFICIENCY CARTRIDGE STYLE BAFFLE FILTERS OF ADEQUATE NUMBER AND SIZES TO ENSURE OPTIMUM PERFORMANCE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INFORMATION. THE FILTER HOUSING SHALL TERMINATE IN A PITCHED, FULL LENGTH GREASE TROUGH, WHICH SHALL DRAIN INTO A REMOVABLE GREASE CONTAINER. HOOD SHALL BE PROVIDED WITH ONE (1) FILTER REMOVAL TOOL.

VAPOR PROOF, UL LISTED, INCANDESCENT LIGHT FIXTURES SHALL BE PREWIRED TO A JUNCTION BOX SITUATED AT THE TOP OF THE HOOD FOR FIELD CONNECTION. WIRING SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC #70).

FIRE PROTECTION SYSTEMS: WET CHEMICAL WITH WALL-MOUNTED STAINLESS-STEEL CABINET. FIRE-PROTECTION SYSTEM TO PROVIDE DUCT, PLENUM, AND SURFACE PROTECTION FOR VENTILATOR AND EQUIPMENT LOCATED BELOW VENTILATOR. SYSTEM SHALL BE INTERWIRED WITH SHUNT TRIP BREAKER AND GAS SOLENOID VALVE OF EQUIPMENT LOCATED BELOW VENTILATOR FOR POWER AND FUEL SHUTOFF DURING SYSTEM ACTUATION.

THE MANUAL PULLS FOR THE ACTIVATION OF THE KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEMS SHALL BE LOCATED A MINIMUM OF 10 FEET AND A MAXIMUM OF 20 FEET FROM THE EXHAUST HOODS PER SECTION 904.11.1 OF THE 2012 INTERNATIONAL BUILDING CODE.

ENCLOSURE PANELS: 1.3 MM (0.05 INCH) THICK STAINLESS STEEL SHALL BE INSTALLED; LOCATE BETWEEN VENTILATOR TOP AND CEILING ON ALL EXPOSED SIDES.
BACK SHALL BE UNFINISHED.

OUTSIDE AIR MAKE-UP PLENUM SHALL BE INCORPORATED INTO THE FRONT FACE OF THE HOOD.

INSTALL VENTILATORS LEVEL AND PLUMB WITH ACCESS CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE AND CLEANING AND IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DOCUMENTATION. COORDINATE INSTALLATION OF VENTILATORS WITH OVERHEAD SUPPORTS.

FIELD TESTING:

FIELD TESTING, GENERAL: FOLLOWING INSTALLATION, TEST VENTILATORS FOR COMPLIANCE WITH SPECIFIED REQUIREMENTS AND THOSE OF AUTHORITIES HAVING JURISDICTION. PERFORM TESTING AFTER AIR-HANDLING SYSTEMS HAVE BEEN BALANCED AND ADJUSTED.

PERFORM TESTS WITH COOKING EQUIPMENT SERVED BY VENTILATOR TURNED OFF.

PERFORM TESTS WITH SUPPLY AND EXHAUST FANS SERVING THE FOOD SERVICE KITCHEN AREA TURNED ON.

TEST PROCEDURE: MOVE A SMOKE BOMB AROUND THE PERIMETER OF COOKING EQUIPMENT AT THE TOP SURFACE.

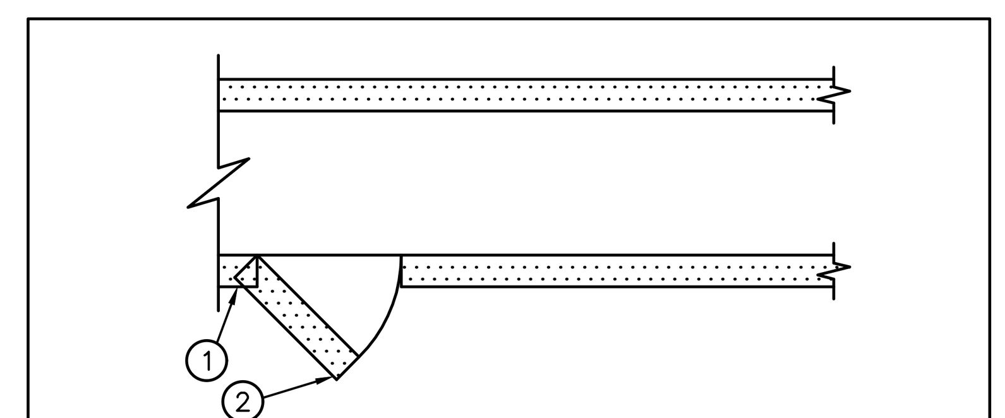
TEST-PERFORMANCE REQUIREMENTS: NO VISIBLE SMOKE SHALL ESCAPE FROM THE VENTILATOR CANOPY INTO THE ROOM.

INSTRUCT PERSONNEL AND TRANSMIT OPERATING INSTRUCTIONS IN ACCORDANCE WITH REQUIREMENTS.

CROSS CONNECTION DEVICE SCHEDULE

INSTALL BACKFLOW PREVENTION DEVICES ON KITCHEN EQUIPMENT PER JO. CO. DISTRIBUTION WATER QUALITY DEPT. REQUIREMENTS AS FOLLOWS:

FIXTURE		DEVICE
DISHWASHER	-	RPZ BFP
CARBONATORS	-	RPZ BFP
ICE MAKERS	-	DCVA
TEA MAKERS	-	DCVA
MOP SINK	-	ATMOS. VA. BRKR.



NOTES:
1. EXHAUST DUCT FOR CLASS 1 GREASE HOOD TO BE FULLY WELDED 16 GA. STEEL. ENTIRE LENGTH OF NEW EXHAUST DUCT SHALL BE PROTECTED WITH 1-HOUR FIRE-RATED U.L. CLASSIFIED DUCT WRAP INSULATION, SERVING AS A "SHAFT REPLACEMENT" AND PROVIDING FOR ZERO CLEARANCE OF COMBUSTIBLES FROM GREASE DUCT. PROVIDE DUCT WRAP INSULATION EQUIVALENT TO "3M FIRE BARRIER DUCT WRAP 15A", INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND APPROVED INSTALLATION DETAILS.
2. PROVIDE GREASE DUCT CLEANOUT ACCESS PANELS AT DUCT OFFSETS, AND AT 20' MAX INTERVALS. PROVIDE HINGED ACCESS PANELS WITH NEATLY CUT, REMOVABLE DUCT WRAP INSULATION COVERING THE PANEL.

2/MP301 GREASE EXHAUST DETAIL
1/2" = 1'-0"

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
01/27/2022

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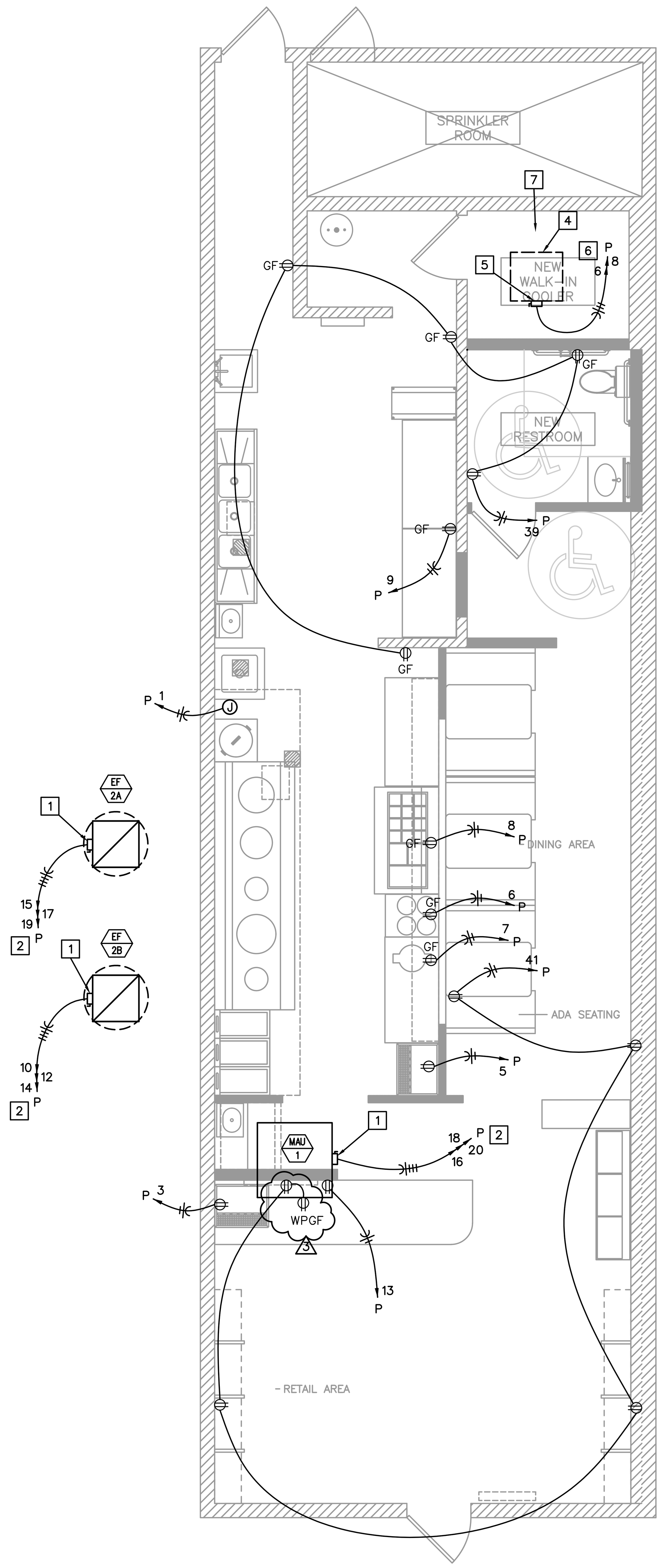
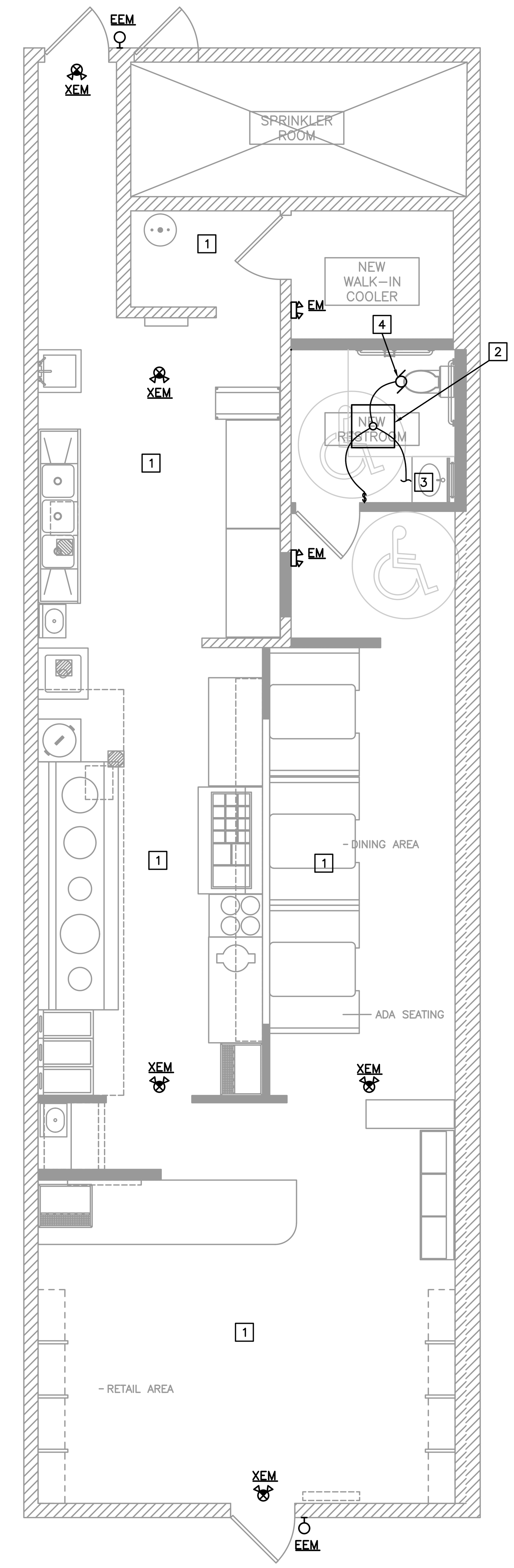


POWER PLAN
1/4" = 1'-0"
NORTH



LIGHTING PLAN
1/4" = 1'-0"
NORTH

POWER PLAN NOTES #:

1. 20-AMP, 3-POLE NEMA 3R DISCONNECT SWITCH.
2. 3/4" C WITH FOUR (4) #12 CU AND ONE (1) #12 CU G.
3. EXTEND POWER FOR WPGF FROM EXISTING CIRCUIT AT BUILDING INTERIOR.
4. REFRIGERATION COMPRESSOR ON ROOF.
5. 2 POLE, 20-AMP NEMA 3R DISCONNECT SWITCH.
6. 3/4" C WITH THREE #12 CU AND ONE #12 CU GROUND.
7. COOLER SHALL INCLUDE EVAPORATOR AND CONDENSER INSIDE ON TOP OF THE WALK IN UNIT

LIGHTING PLAN NOTES #:

1. EXISTING LIGHTING SHALL REMAIN AS CURRENTLY INSTALLED EXCEPT REPOSITION LAY-IN LIGHT FIXTURES TO ACCOMMODATE WALLS BEING ADDED. INSTALL SWITCHING AS DIRECTED BY THE OWNER.
2. NEW 2x2 FLAT PANEL LED LIGHT FIXTURE.
3. EXTEND 120-VOLT POWER FROM NEAREST EXISTING LIGHTING CIRCUIT.
4. CONTROL EXHAUST FAN FROM BR LIGHTING CIRCUIT.

ELECTRICAL GENERAL NOTES

A) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.

B) ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.

C) OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL.

D) CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
02/12/2025

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Project number: 24-242
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Date: 2025/01/22
Sheet Number: **E200**

PANEL P	208 VOLTS	■ 200 A. BUS	■ SERVICE ENTRANCE
1 2	3 PHASE	□ - A. MAIN BREAKER	□ FEED THRU LUGS
SECTION 1 OF 1	4 WIRE	■ MAIN LUGS ONLY	□ SUBFEED LUGS

CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. BRKR. AMPS	CIRC. BRKR. POLES	VA	Ø	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. BRKR. AMPS	CIRC. BRKR. POLES	VA
1	HOOD	20	1	800	A	2	2A LIGHTING 2B EM LIGHTING	20 20	1 1	1000 600
3	SODA REFRIGERATOR	20	1	800	B	4	4A FOOD WARMER 4B BAIN MARIE	20 20	1 1	800 1000
5	SODA REFRIGERATOR	20	1	800	C	6	WALK-IN COOLER	20	2	1200
7	RICE WARMER	20	1	1000	A	8				1200
9	FREEZER	20	1	1000	B	10	EF-2B	20	3	792
11	SPARE	20	1	-	C	12				792
13	POS	20	1	800	A	14				792
15	EF-2A	20	3	792	B	16	MAU-1	20	3	1272
17				792	C	18				1272
19				792	A	20				1272
21	RECEPTACLES	20	1	900	B	22	EXISTING RTU	45	2	4160
23	RECEPTACLES	20	1	900	C	24				4160

TOTAL CONNECTED LOAD	DEMAND FACTORS:		NEUTRAL BUS
- VA	LIGHTS @ 125 % =	2000 VA	100 %
□ SURFACE MOUNTED	RECEPTS @ 100 % =	1800 VA	POWER FACTOR 100 %
□ FLUSH MOUNTED	RECEPTS @ 50 % =	- VA	DEMAND CURRENT
	OTHER @ 100 % =	26288 VA	83.62 AMPS
	TOTAL DEMAND LOAD =	30088 VA	

NOTES:

1. CONTRACTOR SHALL COORDINATE POWER WITH EQUIPMENT PROVIDED.
2. PANEL IS EXISTING.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	LAMP	VOLTS / WATTS
EM	EXITRONIX #LED90	(2) LED HEADS WITH UNIT	120 / 10
EEM	EXITRONIX #MLED	WEATHERPROOF LED REMOTE	6 / 8
XEM	EXITRONIX #VLED-1-WH-EL90-R	RED LED AND (2) LED HEADS WITH UNIT	120 / 15
X	EXITRONIX #VEX-U-BP-WB-WH-120	RED LED WITH UNIT	120 / 5
X2	EXITRONIX #VEX-U/2-BP-WB-WH-120	RED LED WITH UNIT	120 / 5

NOTES:

1. TYPE 'X' AND/OR 'XEM' FIXTURES SHALL HAVE 12 WATTS OF REMOTE CAPACITY AND POWER TYPE 'EEM'.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
	CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.
	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.
	WALL MOUNTED JUNCTION BOX.
	CEILING MOUNTED JUNCTION BOX.
	PANELBOARD (SURFACE MOUNTED).
	DISCONNECT SWITCH. SIZED AS NOTED.
	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.
OR	EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN.
	EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN.
	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE WITH (2) HEADS
	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH (2) HEADS.
	FLUORESCENT LIGHT FIXTURE.
	FLUORESCENT NIGHT LIGHT FIXTURE. FIXTURE SHALL BE ON 24/7.
	FLUORESCENT STRIP FIXTURE.
	CEILING LIGHT FIXTURE.
	WALL MOUNTED LIGHT FIXTURE.
	REMOTE WEATHERPROOF EMERGENCY LIGHT FIXTURE.
$	SINGLE POLE SWITCH. +3'-10" AFF.
$P	SWITCH AND PILOT LIGHT. +3'-10" AFF.
	SINGLE RECEPTACLE. +1'-6" AFF OR AS NOTED.
	DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
WP	DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
GF	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.
	FOURLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
	FOURPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.
+3'-10"	HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.
RTU-1	ROOF TOP UNIT AND NUMBER.
WH-1	ELECTRIC WATER HEATER AND NUMBER.
EF-1	EXHAUST FAN AND NUMBER.
AFF	ABOVE FINISH FLOOR.
ETR	EXISTING TO REMAIN.
ER	EXISTING RELOCATED.
EC	ELECTRICAL CONTRACTOR.
NL	NIGHT LIGHT. FIXTURE SHALL BE ON 24/7

ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL WORK WITH BUILDING REPRESENTATIVE AND GENERAL CONTRACTOR.
2. INSTALLATION SHALL COMPLY WITH 2013 EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISDICTION.
3. CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
4. ALL WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
5. CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
6. ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED.
7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
8. MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE CONCEALED IN WALLS AND FOR CONNECTIONS TO LIGHT FIXTURES (MAXIMUM LENGTH 6'-0"). CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER. MC CABLE SHALL NOT BE USED FOR HOMERUNS.
9. INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
10. TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.
11. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK WITH ALL OTHER TRADES INVOLVED WITH CONSTRUCTION OF PROJECT.
12. ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.
13. ALL NEW BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED ABOVE LAY-IN CEILING OR IN WALLS.
14. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.
15. VOICE/DATA AND THERMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" CONDUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT.
16. VOICE/DATA SYSTEMS, ASSOCIATED WIRING, AND DEVICES TO BE PROVIDED BY OWNER.
17. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS. MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, OR CUTLER-HAMMER.
18. FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
19. MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
20. PROVIDE LIGHT FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
21. ALL LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
22. PROVIDE A FACTORY INSTALLED MAXIMUM WATTAGE LABEL ON ALL MEDIUM SCREW BASE LIGHT FIXTURES THAT CORRESPONDS TO THE MAXIMUM WATTAGE OF THE LIGHT FIXTURE LISTED IN THE LIGHT FIXTURE SCHEDULE.
23. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.
24. E.C. SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.
25. E.C. SHALL VERIFY ALL CONDITIONS PRIOR TO ANY ROUGH-IN.
26. ALL CHANGES BY E.C. TO ITEMS SPECIFIED ON DRAWINGS MUST BE APPROVED IN WRITING BY ENGINEER/ARCHITECT OR OWNER AT LEAST (10) TEN DAYS PRIOR TO PROJECT BID DATE.
27. E.C. SHALL PROVIDE AND INSTALL SMOKE AND FIRE STOPS AT ALL CONDUIT PENETRATIONS OF SMOKE AND FIRE-RATED WALLS AND CEILINGS.
28. CAULK AND SEAL ALL RACEWAY PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
29. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
30. E.C. SHALL COORDINATE LOCATIONS OF ALL DEVICES, SUCH AS LIGHT SWITCHES, CONVENIENCE RECEPTACLES, TELEVISION OUTLETS, AND TELEPHONE OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
31. DUCT SMOKE DETECTOR SHALL BE 120 VOLT, PHOTO-ELECTRIC WITH SAMPLING TUBES - INSTALLED IN RETURN AIR DUCT OF HVAC UNIT(S). PROVIDE WITH MIN-ALERT SOUNDER, STROBE AND REMOTE TEST/RESET STATION. WIRE DETECTORS SO THAT UPON SENSING SMOKE HVAC UNIT FANS(S) AUTOMATICALLY SHUTS DOWN AND SOUNDER/STROBE IS ACTIVATED. WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (IN EXCESS OF 2,000 CFM COMBINED), ALL FANS SHALL AUTOMATICALLY SHUT DOWN UPON DETECTION OF SMOKE AT ANY SINGLE SMOKE DETECTOR (INCLUDING VAV BOX FANS OR OTHER FANS ASSOCIATED WITH THE PLENUM). PROVIDE ALL RELAYS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION. EQUIPMENT SHALL BE BY EDWARDS, SIMPLEX, PYROTRONICS, OR NOTIFER.
32. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD SHALL MATE/MATCH PANEL CONSTRUCTION AND AIC RATING.
33. THE COMPONENTS OF THE ELECTRICAL SYSTEM SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE THEREOF EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP.
34. FIRE ALARM SYSTEM ADDITIONS TO THE TENANT SPACE FOR THIS FACILITY SHALL BE DESIGN/BUILD. SUCCESSFUL FIRE ALARM CONTRACTOR SHALL PROVIDE COMPLETE FIRE ALARM SYSTEM DOCUMENTS INCLUDING DRAWINGS, DETAILS AND SPECIFICATION DATA SHEETS SEALED BY A LICENSED ENGINEER FOR REVIEW AND SUBMISSION TO THE CITY FOR PERMIT. INSTALLATION SHALL COMPLY WITH NFPA 72, ALL LOCAL BUILDING CODES AND AUTHORITY HAVING JURISDICTION. ALL COMPONENTS SHALL MATE/MATCH THE EXISTING SYSTEM. WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.

STATE OF MISSOURI
GREGORY P. GLADFELTER
NUMBER E-2000150421
REGISTERED PROFESSIONAL ENGINEER
01/27/2022

DRAGON J
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Date:	Issued for:
11/07/24	PERMIT
12/03/24	1 CITY COMMENTS
01/27/25	2 CHANGE ORDER

Project number: 24-242

Drawn: JEE/SWB/GPG

Date: 2025/01/22

Sheet Number: E300

SED ENGINEERING, INC.
Consulting Structural and Civil Engineers
5907 Raytown Trafficway
Raytown, Missouri 64133
816-356-1445

February 19, 2025

Ms. Jean Kao
Cornerstone Architects, LLC
8117 Roberts Road
Weatherby Lake, MO 64152

Re: Dragon J – 214 NW Oldham Parkway, Lees Summit, MO

Ms. Kao,

At your request, I have inspected the existing roof structure at the above referenced site. The inspection was requested to evaluate the existing framing for installation of new roof top fans.

The roof consists of metal decking supported on 12" deep open web steel joists at 48" on center with a length of 19'-6". The joists are supported on bearing walls on either side of the space. The dimensions of the elements of the joists do not conform to standard criteria but, in the absence of a joist tag, it is my conclusion that the joists most resemble 12J2's. Using the attached load table, the allowable safe load at a length of 19'-6" feet is 150 plf (interpolating between 19 and 20 feet). 150 plf converts to 37.5 psf at 48" joist spacing. The design dead (10 psf) and live (20 psf live, 5 psf rain on snow) loads add up to 35 psf which leaves little cushion for extra loading.

The new fans, two exhaust (KEF) at 125 pounds each and one make up air (MUA) at 350 pounds, and the new hood will not be supported by the roof joists. The hood will attach to the demising wall at the rear and to wing walls at the sides. The KEF's will be supported on the demising wall with an angle brace frame. The MUA will be supported on tube steel rails bearing on wing walls adjacent to the wait station. No additional load will be placed on the roof joists.

If there are any questions, please let me know.

Yours truly,

STATE OF MISSOURI
ALBERT P. HERMANS
NUMBER E-23506
REGISTERED PROFESSIONAL ENGINEER

Albert Hermans, P.E.

STANDARD LOAD TABLE

OPEN WEB STEEL JOISTS, J-SERIES

Allowable Total Safe Loads in Pounds Per Linear Foot of J-SERIES Steel Joists — *For Joist Depths 8″ to 14″.

The following table gives the TOTAL safe uniformly-distributed load-carrying capacities, in pounds per linear foot, of J-Series Open Web Steel Joists adopted by the Steel Joist Institute. The weight of DEAD loads, including the joists, must in all cases be deducted to determine the LIVE load-carrying capacities of the joists.

Joist Designation	8J2	10J2	10J3	10J4	12J2	12J3	12J4	12J5	12J6	14J3	14J4	14J5	14J6	14J7
*Depth in Inches	8	10	10	10	12	12	12	12	12	14	14	14	14	14
Resisting Moment In Inch Pounds	56,000	70,000	89,000	111,000	85,000	108,000	135,000	161,000	196,000	127,000	159,000	190,000	230,000	276,000
Max. End Reaction In Pounds	1900	2000	2200	2400	2200	2300	2500	2700	3000	2400	2800	3100	3400	3700
†Approx. Joist Wgt. Pounds Per Foot	4.2	4.2	4.8	6.0	4.5	5.1	6.0	7.0	8.1	5.2	6.4	7.3	8.4	9.7
Span In Feet														
8	475													
9	422													
10	373	400	440	480										
11	309	364	400	436										
12	259	324	367	400	367	383	417	450	500					
13	221	276	338	369	335	354	385	415	462					
14	190	238	303	343	289	329	357	386	429	343	400	443	486	529
15	166	207	264	320	252	307	333	360	400	320	373	413	453	493
16	146	182	232	289	221	281	313	338	375	300	350	388	425	463
17		161	205	256	196	249	294	318	353	282	329	365	400	435
18		144	183	228	175	222	278	300	333	261	311	344	378	411
19		129	164	205	157	199	249	284	316	235	294	326	358	389
20		117	148	185	142	180	225	268	300	212	265	310	340	370
21					128	163	204	243	286	192	240	287	324	352
22					117	149	186	222	270	175	219	262	309	336
23					107	136	170	203	247	160	200	239	290	322
24					98	125	156	186	227	147	184	220	266	308
25										135	170	203	245	294
26										125	157	187	227	272
27										116	145	174	210	252
28										108	135	162	196	235

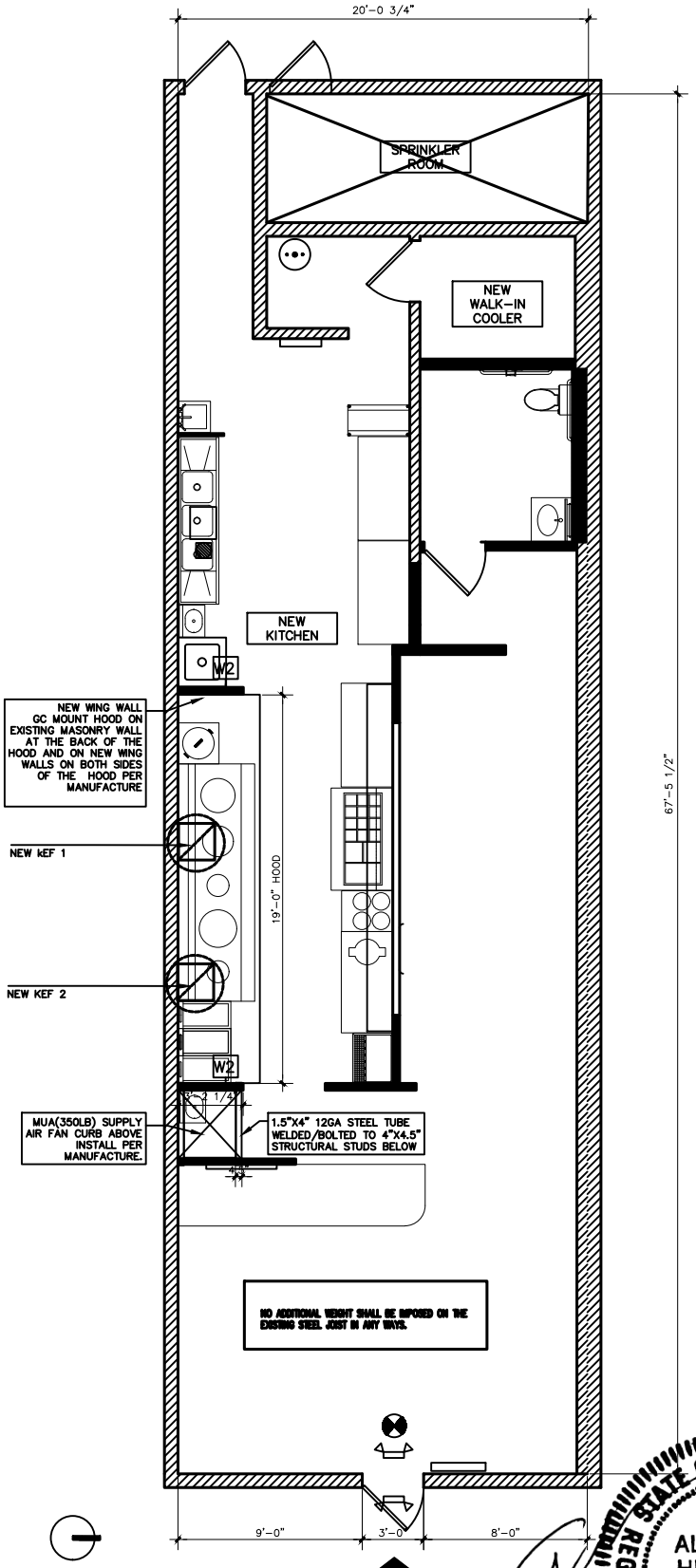
*Indicates Nominal Depth of Steel Joists only.
†Approximate Weights per Linear Foot of Steel Joists only. Accessories and nailer strip not included.
*†See Manufacturers' Catalog for detailed information on specific joist types.

LOADS ABOVE COLORED LINES ARE GOVERNED BY SHEAR.

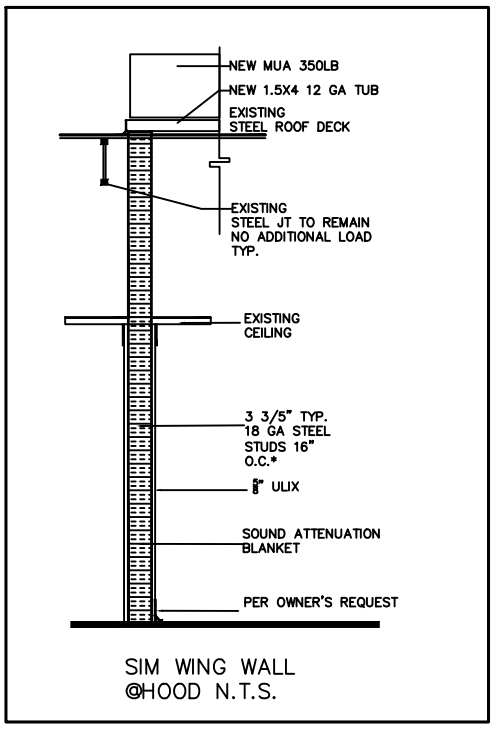
Tests on steel joists designed in accordance with the Steel Joist Institute Standard Specifications have demonstrated that the Steel Joist Institute Load Tables are applicable for concentrated top chord loadings (such as are developed in bulb-tee roof construction) when the sum of the equal concentrated top chord loadings does not exceed the allowable uniform loading for the joist type and span and the loads are placed at spacings not exceeding 33″ along the top chord.

Adopted by the Steel Joist Institute May 30, 1961.

This Table in accordance with Simplified Practice Recommendation filed with the Commodity Standards Division, Office of Technical Services, U. S. Department of Commerce.

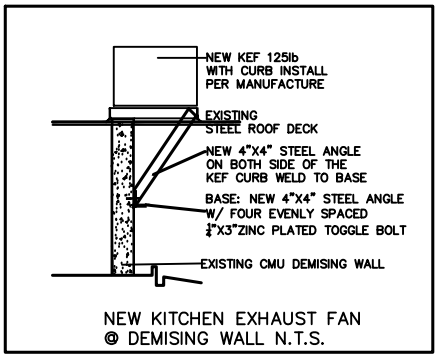


02 PROPOSED FLOOR PLAN
SCALE: N.T.S.



SIM WING WALL
@HOOD N.T.S.

04 W2 WALL ASSEMBLY



NEW KITCHEN EXHAUST FAN
@ DEMISING WALL N.T.S.

STATE OF MISSOURI
ALBERT P. HERMANS
NUMBER E-23306
REGISTERED PROFESSIONAL ENGINEER

2/19/25

PROJECT:

DRAGON J

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2/14/25