

BUILDING CLASSIFICATION	
187 MAIN STREET , BLOCK 4851 LOT 01.2	
ZONE	
USE GROUP: A-3	CONSTRUCTION TYPE: IIB UNPROTECTED
FLOOR AREA	EXISTING FLOOR AREA/RENOVATION FLOOR AREA:
1ST FLOOR	1,550 SF

FLOOR AREA	EXISTING FLOOR AREA:	RENOVATION FLOOR AREA:
1ST FLOOR	1,550 SF	1,550 SF
TOTAL	1,550 SF	1,550 SF

BUILDING CODE ANALYSIS
 INTERNATIONAL BUILDING CODE - 2015
 INTERNATIONAL BUILDING CODE - 2018 (NJ EDITION)
 INTERNATIONAL MECHANICAL CODE - 2018
 NATIONAL ELECTRICAL CODE - 2017 (NFPA 70)
 NATIONAL PLUMBING CODE - 2018
 INTERNATIONAL FUEL GAS CODE 2018
 ANSI A 117.1-2009
 IBC 2018
 SECTION 302 USE GROUP: FIRST FLOOR : A-3 TAKE OUT RESTAURANTS
 PROVIDE ONE , MAX TRAVEL DISTANCE IS BASED ON SECTION 1014.3 COMMON PATH EXCEPTION, REQUIRE ONE
 CHAPTER 6
 SECTION 602 CONSTRUCTION TYPE: 2B PROTECTED WITH EQUIPPED WITH SPRINKLER SYSTEM THROUGH OUT BUILDING.
 CHAPTER 7
 SECTION 704 : FIRE -RESISTANCE RATING OF STRUCTURAL MEMBERS
 ALL SUPPORTING COLUMN & BEAM -PROVIDE 1 HR RATED FIRE PROTECTION (FIRE SPRAY)
 CHAPTER 8
 SECTION 803 : INTERIOR FINISH- WALL,CEILING & FLOORING TO BE CLASS II TYPE , FLAME SPREAD 26-75
 SMOKE DEVELOPED 0-450 N.J.A.C (6.11 BASIC REQUIREMENT IN ALL GROUPS)
 CHAPTER 9
 SECTION 903 : AUTOMATIC SPRINKLER SYSTEM - EQUIPPED WITH THROUGHOUT BUILDING
 SECTION 1005 EGRESS WIDTH
 REQUIRES MIN 44" : PROVIDE MIN 48"
 SECTION 1015 EXIT AND EXIT ACCESS DOORWAYS
 FIRST FLOOR REQUIRES ONE : PROVIDE TWO
 SECTION 1016 : EXIT ACCESS TRAVEL DISTANCE
 REQUIRES 250 FT WITH SPRINKLER SYSTEM : PROVIDE

ARCHITECTURAL / ENGINEERING / INTERIOR
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NO.	ISSUE DESCRIPTION	DATE
1	PERMIT	1/25/22
2	REVISION	3/23/22

GENERAL NOTES AND SPECIFICATIONS

- ALL WORK ON THIS APPLICATION SHALL BE IN ACCORDANCE WITH "THE CODE" AND ALL APPLICABLE SUBCODES. CODE JURISDICTION IBC BUILDING CODE-NJ.HANDCAPPED ACCESSIBLE CODE.
- GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED FOR HIS WORK. COST OF SAID PERMITS SHALL BE PAID FOR BY THE GENERAL CONTRACTOR. THIS INCLUDES ALL INSPECTIONS BY AUTHORITIES.
- TENANT'S CONTRACTORS SHALL VERIFY ALL FILED CONDITIONS AND SHALL HAVE SOLE RESPONSIBILITY FOR VERIFICATION OFF CLEAR HEIGHTS WITHIN THE PREMISES. REPORT ALL DISCREPANCIES TO THE DESIGNERS IN WRITING.
- THE TENANT GENERAL CONTRACTOR SHALL LAY OUT WORK IN CONFORMITY WITH THE REQUIREMENTS AS SPECIFIED IN THE DRAWINGS, AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS. BEFORE DOING ANY WORK, TENANT'S GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE NOTIFY THE DESIGNER AND THE TENANT OF ANY DISCREPANCIES, IN WRITING.
- GENERAL CONTRACTOR SHALL COMPLY WITH ALL THE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT.
- TENANT GENERAL CONTRACTORS SHALL HAVE ON SITE, LANDLORD APPROVED WORKING DRAWINGS AND BUILDING DEPARTMENT APPROVES PERMIT DRAWINGS.
- CONSTRUCTION EQUIPMENT AND MATERIALS ARE TO BE LOCATED IN CONFINED AREAS AND TRUCK TRAFFIC IS TO BE ROUTED TO AND FROM THE BUILDING AS DIRECTED BY THE LANDLORD.
- NO APPROVAL BY THE LANDLORD WILL BE VALID UNLESS IN WRITING AND SIGNED BY THE LANDLORD OR BY THE LANDLORD'S DESIGNATED REPRESENTATIVE FOR SUCH PURPOSE.
- ALL WOOD SHALL BE KILN-DRIED, MILL QUALITY FINISH AND SHALL RECEIVE A FACTORY APPLIED FIRE- RETARDANT TREATMENT. NO WOOD OR COMBUSTIBLE MATERIAL SHALL BE USED ABOVE THE SUSPENDED CEILING . ALL FINISHES SHALL HAVE A CLASS II FLAME SPREAD RATING OR BETTER. FIRE- RETARDANT FINISH TO RENDER WOOD NON-COMBUSTIBLE.
- GENERAL CONTRACTOR SHALL FURNISH AND INSTALL, AS REQUIRED ,HAND OPERATED FIRE EXTINGUISHER'S UL RATED AS PER LOCAL FIRE CODE REQUIREMENTS.
- CEILINGS SHALL BE UNDERWRITERS APPROVED NON-COMBUSTIBLE TYPE. SEE REFLECTED CEILING PLAN.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY REMOVAL OF TRASH, RUBBISH, AND SUPPLIES MATERIALS RESULTING FROM CONSTRUCTION.
- GENERAL CONTRACTOR SHALL FURNISH AND PAY FOR ALL TEMPORARY UTILITY SERVICE.
- GENERAL CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL UTILITY METERS AS REQUIRED.
- GENERAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT SPECIFICATIONS AND REQUIREMENT WITH THE OWNER PRIOR TO THE START OF CONSTRUCTION. OBTAIN CATALOG CUT SHEETS OF ALL EQUIPMENT FROM THE OWNER.
- GENERAL CONTRACTOR SHALL PROVIDE EMERGENCY AND EXIT LIGHTING AS REQUIRED BY CODE.
- GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL COUNTER, CABINETS, AND FIXTURES PRIOR TO THE START OF CONSTRUCTION, FOR APPROVAL BY THE DESIGNERS.
- ALL EQUIPMENT AND FIXTURES TO BE INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
- GENERAL CONTRACTOR SHALL SUPPLY ALL NAIL'S, GROUNDS , AND TOTAL STRAPPING FOR FIXTURES, FITTINGS AND EQUIPMENT AS REQUIRED.
- STOREFRONT GLAZING MUST COMPLY WITH ALL APPLICABLE CODES AND SAFETY GLAZING STANDARDS.
- ALL CONTRACTOR SUBSTITUTIONS OF FINISH MATERIALS MUST BE APPROVED BY THE DESIGNERS IN WRITING. G.C. IS RESPONSIBLE FOR SUBMITTING TWO SAMPLES OF EACH SUBSTITUTION.
- ALL FLOOR SLAB PENETRATIONS FOR PLUMBING FIXTURES AND ARRANGS SHALL HAVE WATERTIGHT SLEEVES EXTENDING A MINIMUM 2" A.F.F.
- THE STRUCTURAL SYSTEM OF THE CENTER HAS BEEN DESIGNED TO CARRY A MAXIMUM LIVE LOAD OF 75 POUNDS PER SQUARE FOOT, AND LOADING IMPOSED BY ANY OF THE TENANT'S WORK ON A TEMPORARY OR PERMANENT BASIS SHALL NOT EXCEED 75 POUNDS PER SQUARE BY FOOT. SUCH LOADING SHALL NOT BE EXCEEDED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE LANDLORD IN EACH INSTANCE.

NOTE

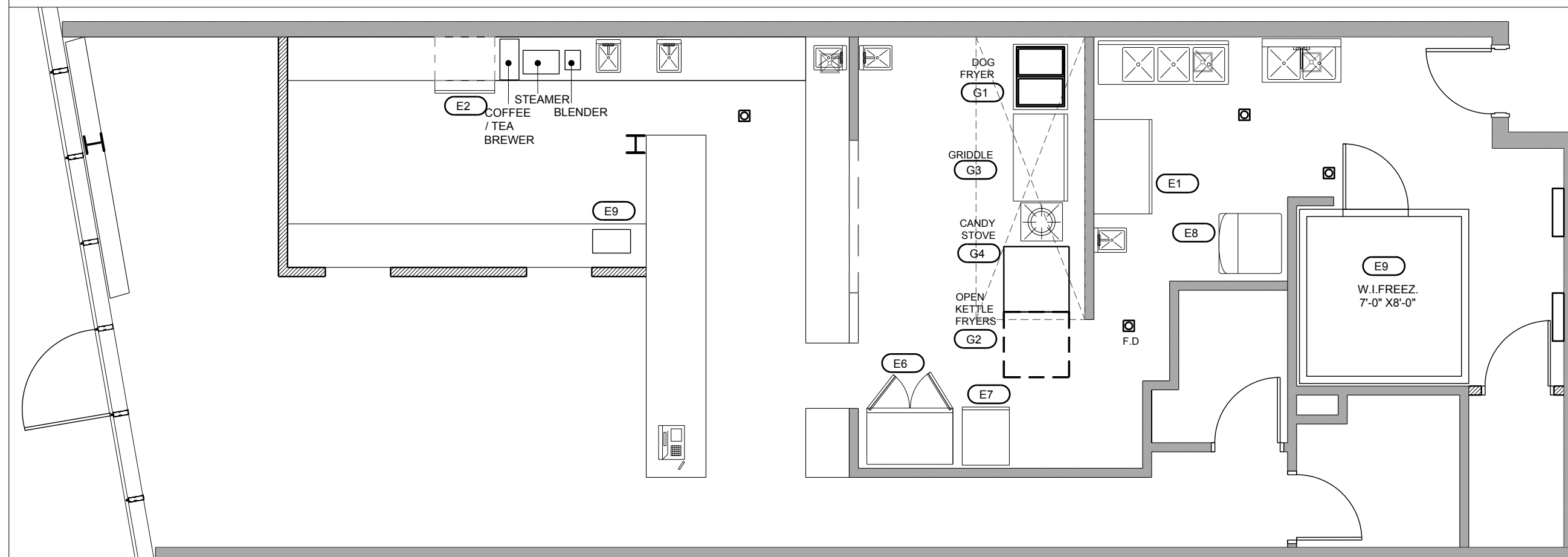
FOOD AND DRUG ADMINISTRATION AND CONFERENCE FOR FOOD PROTECTION			
FOOD ESTABLISHMENT PLAN REVIEW GUIDE			
FOOD ESTABLISHMENT GUIDE FOR DESIGN, INSTALLATION, AND CONSTRUCTION RECOMMENDATIONS			
PART 10 - FINISH SCHEDULE			
	FLOOR	WALL	CEILING
COOKING	QUARRY TILE, POURED ACAMESS, ACALED CONCRETE	STAINLESS STEEL, ALUMINUM, CERAMIC TILE	PLASTIC COATED OR METAL CLAD FIBERBOARD, DRY-WALL EPOXY, GLAZED SURFACE, PLASTIC LAMINATE
FOOD PREP	SAME AS ABOVE PLUS SELECT AN ALTERNATIVE BY LANDLOAD	SAME AS ABOVE PLUS APPROVED WALL PANELS(FRP) FIBERGLASS REINFORCED POLYESTER PANEL, EPOXY PAINTED DRYWALL, FILLED BLOCK WITH EPOXY PAINT OR GLASSED SURFACE	SAME AS ABOVE
BAR	SAME AS ABOVE	SAME AS ABOVE FOR AREAS BEHIND SINKS	MEETS BUILDING CODES
FOOD STORAGE	SAME AS ABOVE PLUS SEALED CONCRETE, COMMERCIAL GRADE VINYL COMPOSITION TILE OR SHEETS	APPROVED WALL PANELS (FRP) FIBERGLASS REINFORCED POLYESTER PANEL, EPOXY PAINTED DRYWALL, FILLED BLOCK WITH EPOXY PAINT OR GLAZED SURFACE	ACOUSTIC TILE PAINTED SHEETROCK
OTHER STORAGE	SAME AS ABOVE PLUS	PAINTED SHEETROCK	SAME AS ABOVE
DRESSING ROOM	SAME AS ABOVE	PAINTED SHEETROCK	SAME AS ABOVE PLUS PAINTED SHEETROCK
GARBAGE & REFUSE AREAS (INTERIOR)	QUARRY TILE, POURED SEALED CONCRETE COMMERCIAL GRADE VINYL COMPOSITION FILE OR SHEETS	APPROVED WALL PANELS (FRP) FIBERGLASS REINFORCED POLYESTER PANEL, EPOXY PAINTED DRYWALL, FILLED BLOCK WITH EPOXY PAINT OR GLASSED SURFACE	PLASTIC COATED OR METAL CLAD FIBERBOARD, DRYWALL WITH EPOXY, GLAZED SURFACE, PLASTIC LAMINATE
MOP SERVICE AREA	QUARRY TILE, POURED SEAMLESS SEALED CONCRETE	SAME AS ABOVE	SAME AS ABOVE
WAREWA-SHING AREA	SAME AS ABOVE PLUS COMMERCIAL GRADE VINYL COMPOSITION TILE.	STAINLESS STEEL, ALUMINUM, APPROVED WALL PANELS (FRP) FIBERGLASS REINFORCED POLYESTER PANEL, EPOXY PAINTED DRYWALL, FILLED BLOCK WITH EPOXY PAINT OR GLASSED SURFACE	SAME AS ABOVE

EQUIPMENT LIST

ITEM	DESCRIPTIONS	MANUFACTURER	MODEL	QTY	VOLTAGE	AMPS	KW	HP	GAS(BTUH)
G1	DONUT FRYER	BELSHAW ADAMATIC	724CG	1					60,000
G2	HOT DOG FRYER	CAMSTOCK CASTLE	CDLF-1	2					80,000
G3	GRIDDLE	AVANTCO	CAG48TG	1					140,000
G4	STOCK POT RANGE	GLOVE	GSP 18G	1					100,000
E1	SANDWICH PREP. REFRIGERATOR	AVANTCO	APT-60-HC	1	115V/60/1		7.8		
E2	LOW BAY REFRIGERATOR	AVANTCO	CBE-48-HC	1	115V/60/1		4.3		
E3	CABINET	AVANTCO	HPI-1836	1	120V/60/1		12		
E4	FOOD WARMER	AVANTCO	W50	1	115V/60/1		10		
E5	FREEZER	GALAXY	CF16HC	1	120V/60/1		2.9		
E6	TWO DOOR WORK TOP REFRIGERATOR	AVANTCO	SSWT- 60R	1	115V/60/1		2.9		
E7	ONE DOOR WORK TOP REFRIGERATOR	AVANTCO	APT-27-HC	1	115V/60/1		5.3		
E8	ICE MAKER	HOSHIZAKI	KM-1340MWJ	1	230V/60/1		20		
E9	WALK IN COOLER	AMERIKOOLER	QC080877 FBSC	1	240V/60/1		4.3		
E10	POS SYSTEM			1			3.0		

- NOTE:
 1. THE CONTRACTORS SHALL VERIFY ALL EQUIPMENTS PROVIDED BY THE OWNER FOR PROPER INSTALLATION REQUIREMENTS.
 2. ALL EQUIPMENTS CONTACT WITH FOOD SHALL BE NSF APPROVED TYPE.
 3. ALL EQUIPMENTS TO DISPLAY OPEN FOODS SHALL BE PROTECTED WITH SNEEZE GUARDS.
 4. ALL EQUIPMENTS IN FOOD PREP. AREAS, SHALL BE SEALED TO FLOOR.

EQUIPMENT LAYOUT



PROJECT TITLE : MACHI MACHI
INTERIOR RENOVATION TO EXISTING TAKEOUT RESTAURANT
 187 MAIN STREET UNIT # 8B
 FORT LEE, NJ 07024

DRAWING TITLE
KEY MAP , EQUIPMENT SCHDLUE EQUIPMENT LAYOUT PLAN NOTE

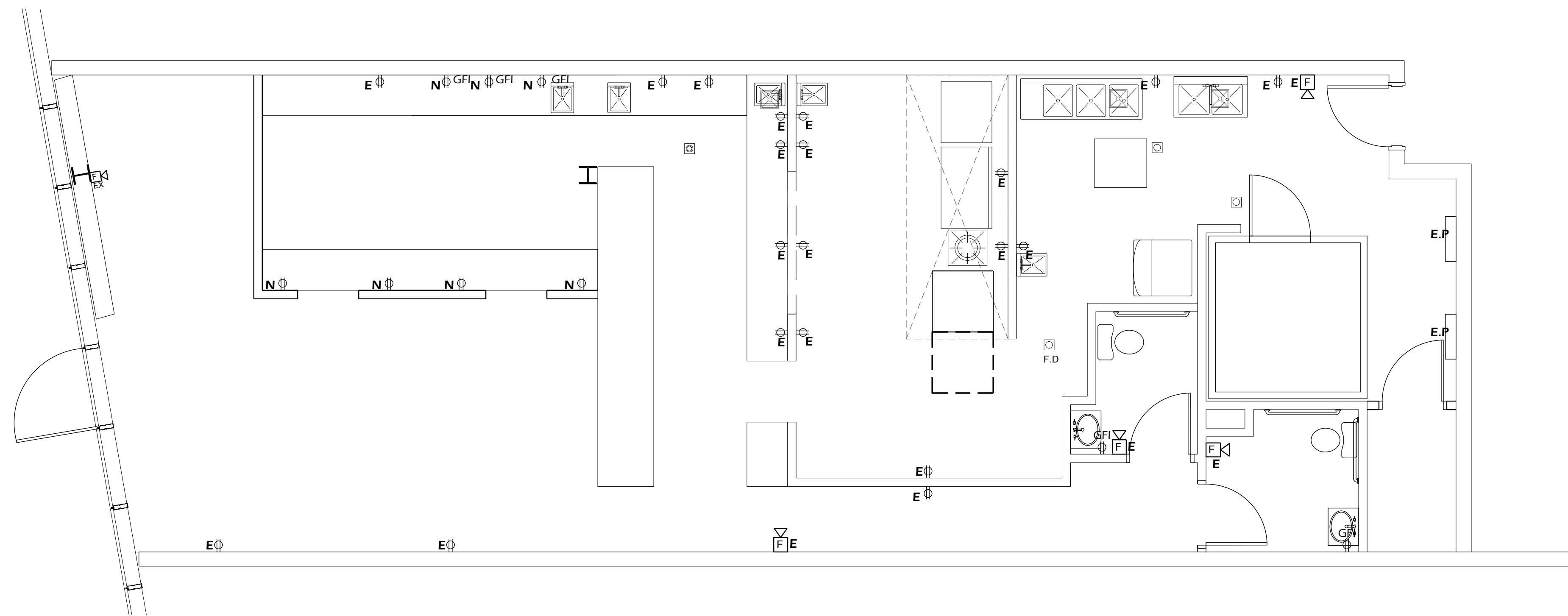
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DRAWN BY	J.KIM
CHECKED BY	Y.SAM YU
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A.01-00
 OF

SEAL & SIGNATURE NJ LIC. A19578

POWER PLAN

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



SCOPE OF WORK

1. ALL EXISTING LIGHTING, OUTLET, EXIT SIGN AND EM LIGHT TO REMAIN OTHERWISE FOLLOW THE NOTE
2. PROVIDE NEW POWER AS PER PLAN
3. INSTALL NEW LIGHT FIXTURE AS PER PLAN

POWER / DATA LEGEND

N = NEW
E = EXISTING
R = REPLACE

- ⊕ WALL MOUNTED ELECTRICAL DUPLEX RECEPTACLE
- ⊕ GFI NEW WALL MOUNTED ELECTRICAL GROUND FAULT INTERRUPT DUPLEX RECEPTACLE @ A.F.F. 38"
- ⊕ NEW WALL MOUNTED, COMBINATION VOICE/DATA OUTLET. GENERAL CONTRACTOR TO PROVIDE A 1" STUB UP WITH BACK BOX, BUSHING, AND DRAGLINE
- ⊕ NEW WALL MOUNTED ELECTRICAL QUADRUPLX RECEPTACLE

LIGHTING SCHEDULE

N = NEW
E = EXISTING
R = REPLACE

- ⊕ P01 PENDANT LIGHT FIXTURE (OWNER TO PROVIDE)
- ⊕ PENDANT LIGHT FIXTURE (OWNER TO PROVIDE)
- ⊕ WALL SCONE LIGHT (OWNER TO PROVIDE)
- ⊕ TRACK LIGHT (OWNER TO PROVIDE)
- ⊕ RECESSED DOWNLIGHT (OWNER TO PROVIDE)
- ⊕ RECESSED 2'-0" x 2'-0" FLUORESCENT FIXTURE (OWNER TO PROVIDE)
- ⊕ RECESSED 2'-0" x 4'-0" FLUORESCENT FIXTURE (OWNER TO PROVIDE)
- EXIT EMERGENCY EXIT SIGN W/ LIGHTING
- EXIT EMERGENCY EXIT SIGN
- EMERGENCY EXIT LIGHTING
- ⊕ LIGHT SWITCH
- ⊕ LIGHT SWITCH WITH DIMMER
- ⊕ 3 WAY LIGHT SWITCH
- ⊕ EXHAUST FAN
- ⊕ SPRINKLER HEAD

ARCHITECTURAL / ENGINEERING / INTERIOR

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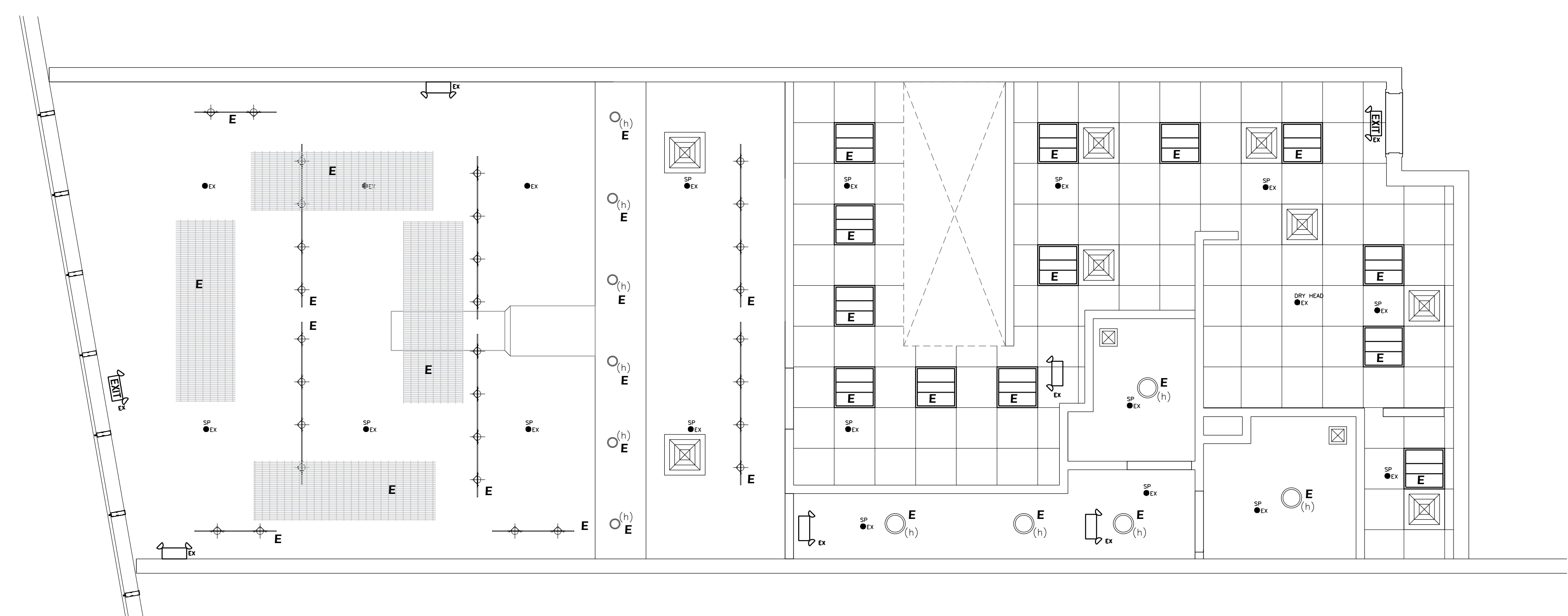
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LIGHTING PLAN

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



LIGHTING NOTES

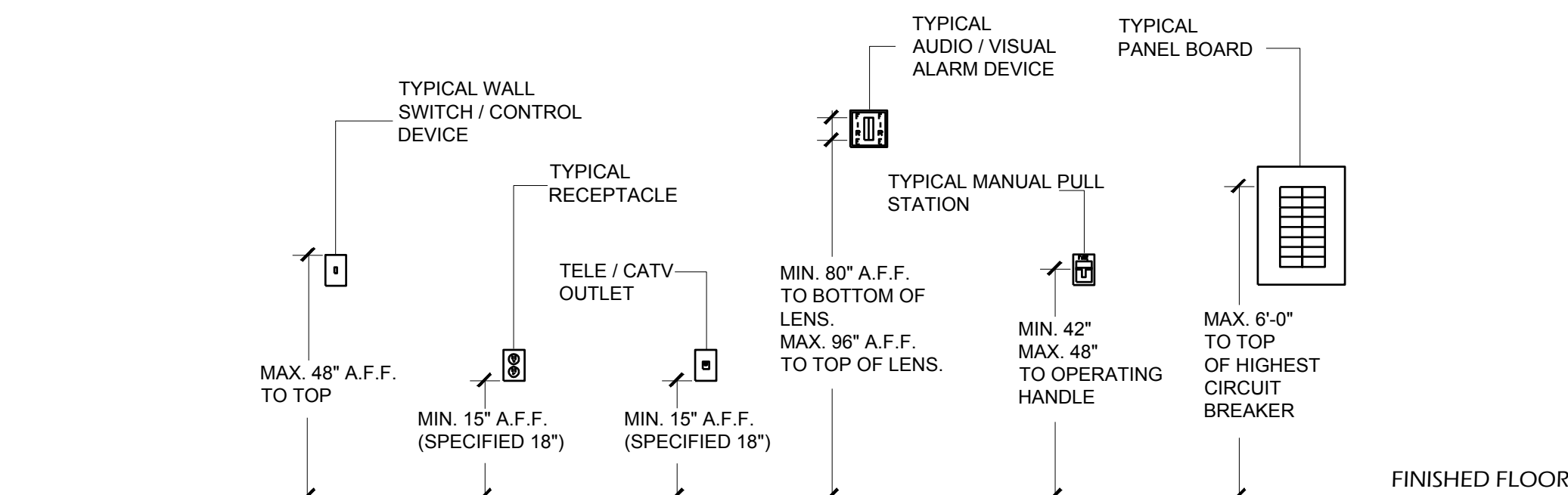
1. FURNISHING AND INSTALL NEW LIGHT FIXTURE AS SPECIFIED. EXTEND AND CONNECT NEW LIGHTING CIRCUIT TO EXISTING SPARE AMP. CIRCUIT BREAKER(S) MADE AVAILABLE BY DEMOLITION WORKER. PROVIDE NEW AS REQUIRED IN EXISTING 120/208V. ELECTRIC PANEL
2. FURNISHING AND INSTALL NEW EXIT SIGN AS SPECIFIED. THIS FIXTURE SHALL BE SUPPLIED WITH AN INTERNAL SIDE OF LIGHTING CIRCUIT TO WHICH IT SERVES.
3. ALL LIGHTING FIXTURES SHOWN WITH AND "/>

POWER NOTES

1. FURNISHING AND INSTALL NEW RECEPTACLE AS SPECIFIED. EXTEND AND CONNECT NEW RECEPTACLE CIRCUIT TO EXISTING SPARE AMP. CIRCUIT BREAKER(S) MADE AVAILABLE BY DEMOLITION WORKER. PROVIDE NEW AS REQUIRED IN EXISTING 120/208V. ELECTRIC PANEL
2. FURNISHING AND INSTALL NEW RECEPTACLE AS SPECIFIED. EXTEND AND CONNECT NEW DEDICATED RECEPTACLE CIRCUIT TO EXISTING SPARE AMP. CIRCUIT BREAKER(S) MADE AVAILABLE BY DEMOLITION WORKER. PROVIDE NEW AS REQUIRED IN EXISTING 120/208V. ELECTRIC PANEL
3. ALL RECEPTACLE SHALL BE 120 V 20AMP BY BX CABLE
4. ALL CIRCUIT SHALL BE (2) #12 AWG. MINIMUM. COPPER, UNLESS OTHERWISE INDICATED ON DRAWING, TYPE THHN.
5. ALL CIRCUIT SHALL BE INCLUDED (ALTHOUGH NOT SHOWN SEPARATE, CONTINUOUS COPPER GROUND CONDUCTOR RUN WITH THE CIRCUIT CONDUCTORS CONDUCTOR SHALL BE #12 AWG. MINIMUM. OTHERWISE AS NOTED ON DRAWING.
6. ALL EMERGENCY CIRCUIT WIRING SHALL BE RUN IN CONDUIT AS PER NEC.
7. MOUNTED HEIGHT FOR COUNTER RECEPTACLES SHALL BE AS NOTED.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM DEVICES WHERE NOTED WIRING AS REQUIRED AND CONNECT TO EXISTING FIRE ALARM SYSTEM SERVING THIS AREA. PROVIDE ALL NECESSARY HARDWARE TO ACCOMMODATE THESE ADDITIONS.
9. LOCATION OF ALL ELECTRICAL DEVICES SHOWN ARE FOR IDENTIFICATION PURPOSE ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER AND/OR ARCHITECT AND/OR LOCATION OF ALL ELECTRICAL DEVICES PRIOR TO INSTALLATION

DEVICE MOUNTING HEIGHT DETAIL

N.T.S.



1. HEIGHTS AND LOCATIONS OF ALL NEW CONTROLS, ELECTRICAL RECEPTACLES AND TELEPHONE / CATV OUTLETS FOR ACCESSIBLE SPACES SHALL CONFORM TO THE LATEST ICC/ANSI-2003 & NFPA 72-2005 7.5.4.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT / OWNER ON THE LOCATION OF ALL NEW RECEPTACLES AND OUTLETS WITH FURNITURE, EQUIPMENT OBSTRUCTIONS AND SPECIFIC EQUIPMENT LAYOUTS
3. DEVICES ARE TO BE MOUNTED AS SHOWN UNLESS THE USE OF SPECIAL EQUIPMENT REQUIRES THE LOCATION TO BE AT A DIFFERENT POSITION AS PER SECTION 309.3-EXCEPTION 1, ICC/ANSI STANDARD A117.1-2003.
4. FOR 'UNOBSTRUCTED' FORWARD REACH REQUIREMENTS, THE MAX. HEIGHT OF THE DEVICE SHALL BE 48" A.F.F. TO THE CENTERLINE AND MIN. 15" A.F.F. TO THE BOTTOM. FOR 'OBSTRUCTED' FORWARD REACH REQUIREMENTS, COMPLY WITH SECTION 308.2.2 OF ICC/ANSI STANDARD A117.1-2003.
5. FOR 'UNOBSTRUCTED' SIDE REACH REQUIREMENTS, THE MAX. HEIGHT OF THE DEVICE SHALL BE 48" A.F.F. TO THE TOP AND MIN. 15" A.F.F. TO THE BOTTOM. FOR 'OBSTRUCTED' SIDE REACH REQUIREMENTS, COMPLY WITH SECTION 308.2.2 OF ICC/ANSI STANDARD A117.1-2003.
6. HEIGHTS AND LOCATIONS OF ALL NEW FIRE ALARM NOTIFICATION DEVICES SHALL CONFORM TO NFPA 72-2005 7.5.4 AND ADA 4.28.3.

PROJECT TITLE: MACHI MACHI

INTERIOR RENOVATION TO EXISTING TAKEOUT RESTAURANT

187 MAIN STREET UNIT # 8B
FORT LEE, NJ 07024

DRAWING TITLE

POWER & LIGHTING PLAN, LEGEND AND NOTE

DATE: 11/19/21

PROJECT NO:

DRAWN BY: J.KIM

CHECKED BY: Y.SAM YU

CAD FILE NO:

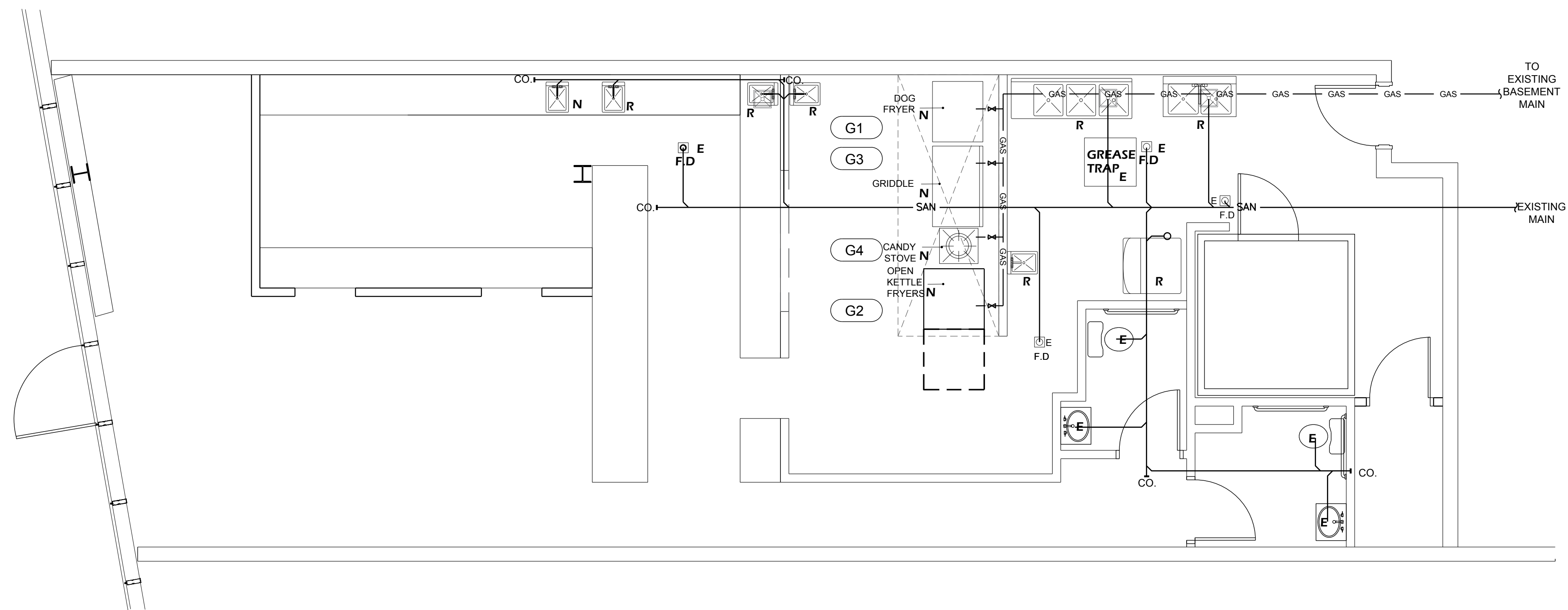
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SEAL & SIGNATURE NJ LIC. A19578

PLUMBING PLAN

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



SCOPE OF WORK

- INSTALL NEW COOKING EQUIPMENT WITH EXISTING GAS LINE
- REPLACE EXISTING PLUMBING FIXTURE (ALL EXISTING DRAIN WATER LINE AND VENT TO EXISTING)

LEGEND

N = NEW
E = EXISTING
R = REPLACE



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GENERAL PLUMBING NOTES

- PLUMBING NOTES**
- GENERAL CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. CONTRACTOR SHALL OBTAIN ALL PERMITS, CERTIFICATES OF INSPECTION AND APPROVALS REQUIRED.
 - SCOPE OF WORK S
WATER PIPING SYSTEM
SOIL WASTE AND VENT PIPING SYSTEM
PLUMBING FIXTURES
PLUMBING EQUIPMENT PIPE JOINTS AND CONNECTION
PLUMBING INSULATION
 - GENERAL STANDARDS
THE APPLICABLE PROVISIONS OF THE FOLLOWING STANDARD SHALL GOVERN
AMERICAN SOCIETY FOR TEST MATERIAL ASTM
AMERICAN STANDARDS ASSOCIATION ASA
UNDERWRITERS LABORATORIES - UL
NATIONAL PLUMBING CODE 2019
THE INSTALLATION OF ALL PLUMBING WORK SHALL CONFORM TO THE APPLICABLE LOCAL PLUMBING CODE AND STATUTES.
 - EXCAVATION AND BACKFILL
DO WALL EXCAVATION AND BACKFILLING. LAY SEWER AND UNDERGROUND PIPING LINES ON COMPACTED SAND BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK - RUN GRAVEL.
 - WATER PIPING SYSTEM
DOMESTIC COLD-WATER PIPING
DOMESTIC HOT WATER PIPING
TRAP PRIMER FOR PROVIDE SHUT OFF VALVE BEFORE EACH TRAP PRIMER
INSTALL WATER PRESSURE REGULATORS WHERE NECESSARY TO LIMIT THE INCOMING WATER PRESSURE TO 80 PSI INSIDE THE BUILDING
INTERIOR WATER PIPING

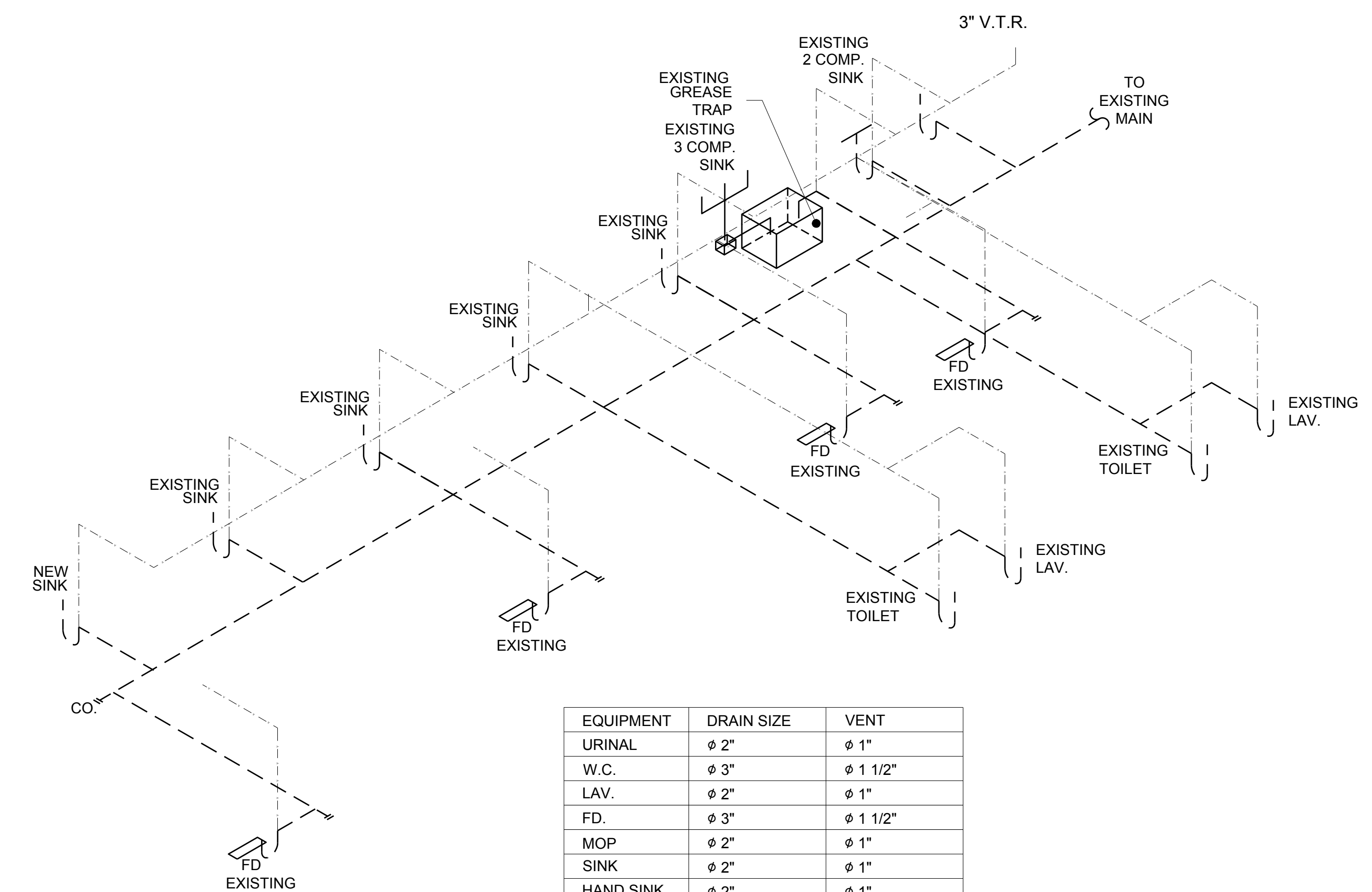
COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE

12. VALVES
PROVIDE STOPS ON DOMESTIC WATER SUPPLIES TO ISOLATE HOT AND COLD WATER TO EACH FIXTURE INCLUDING ALL EQUIPMENT PROVIDED BY OTHERS
FIXTURES, ITEM OR UNITS FURNISHED BY THE MANUFACTURER WITH INTEGRAL STOPS OF SPECIFIED WITH THE FIXTURE ARE CONSIDERED TO BE PROPERLY VALVED OFF AT THE FIXTURES.
ALL VALVES TO COMPLY WITH LEAD FREE LAWS.
BALL VALVES - 1 INCH AND SMALLER 2 PIECE BODY, 00PSI CWP, 150 PSI SWP, CAST BROWNIE BODY, FULL PORT, TEFLON SEATS, BLOWOUT - PROOF STEM, ADJUSTABLE PACKING GLAND, CHROME PLATED BROWNE BALL WITH SCREWED ENDS, AND VINYL - COVERED STEEL HANDLE. PROVIDE SOLDER ENDS, PROVIDE EXTENDED VALVE STEMS FOR VALVES USED ON INSULATED LINES. PROVIDE EQUAL TO NIBCO SERIES 585-70-NS.
BALL VALVES - 1-1/4 INCH TO 3 INCH 3-PIECE BODY, 00 PSI CWP, 150 PSI SWP, CAST BROWNE BODY, CONVENTIONAL PORT, TEFLON SEATS, BLOWOUT-PROOF STEM, ADJUSTABLE PACKING GLAND, CHROME PLATED BROWNE BALL SCREWED ENDS, AND VINYL-COVERED STEEL HANDLE, PROVIDE SOLDER ENDS, PROVIDE EXTENDED VALVE STEMS FOR VALVES USED ON INSULATED LINES. PROVIDE EQUAL TO NIBCO SERIES 590-Y

13. PIPE JOINTS AND CONNECTION
ALL CUTTING AND PATCHING OF FINISHED CONSTRUCTION OF BUILDING SHALL BE PERFORMED BY THIS CONTRACTOR UNDER THE SECTION OF SPECIFICATIONS COVERING THESE MATERIALS.
ANY MINOR ADJUSTMENT IN LOCATION OF ALIGNMENT OF NEW WORK OR TO CONNECT TO EXISTING UTILITIES SHALL BE PERFORMED AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, WALKS, ROAD, BUILDING, PIPING SYSTEMS, ELECTRICAL SYSTEMS, AND THEIR EQUIPMENT AND CONTENTS, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED BY HIM. HE SHALL REPAIR AT HIS EXPENSE ALL DAMAGED SO CAUSED, ALL REPAIR WORK SHALL BE DONE AS DIRECTED BY AND IN SUCH MANNER AS SATISFACTORY TO THE ARCHITECT.
OWNER RESERVES THE RIGHT TO MAKE EMERGENCY REPAIRS AS REQUIRED TO KEEP EQUIPMENT IN OPERATION WITHOUT VOIDING THE CONTRACTORS GUARANTEE BOND NOR RELIVING THE CONTRACTOR OF HIS RESPONSIBILITIES DURING THE BONDING PERIOD.

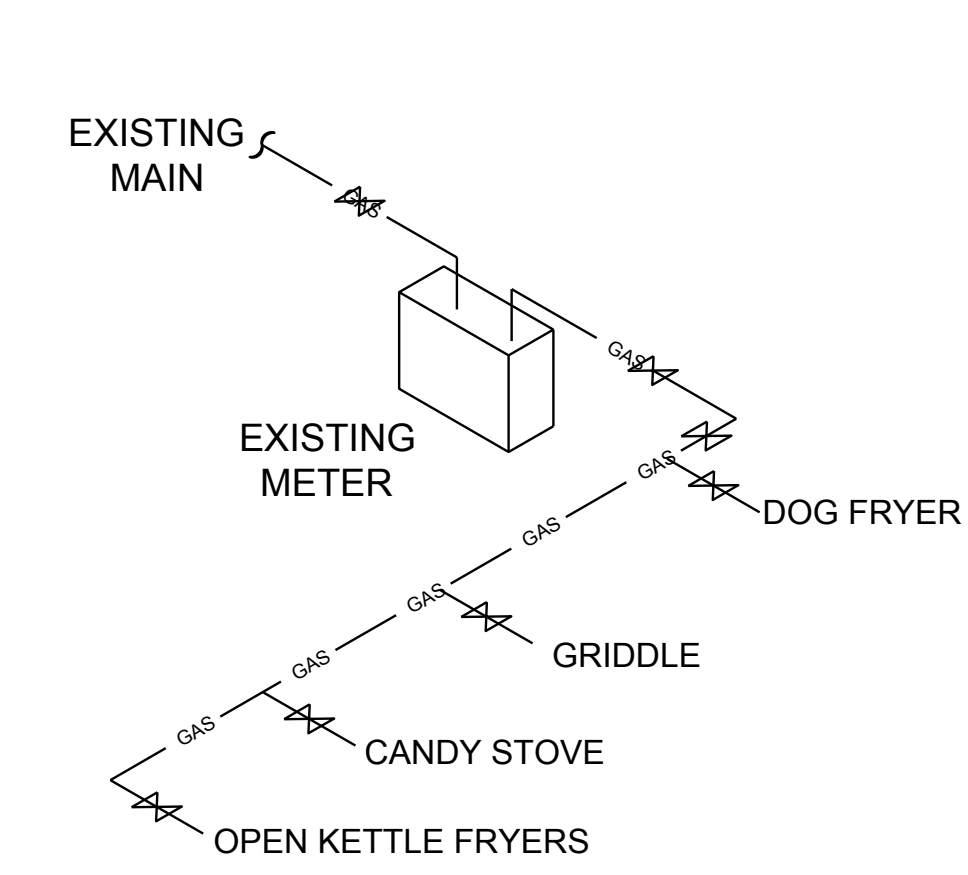
14. PLUMBING INSULATION
INSULATE DOMESTIC COLD WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 1/2 INCH WALL THICKNESS INSULATION.
ALL INSULATION SHALL COMPLY WITH ASHRAE 90.1 AND THE STATE ENERGY CODE.
INSULATE DOMESTIC HOT WATER PIPING, ASSOCIATED FITTINGS AND VALVES WITH 1-1/2 INCH WALL THICKNESS INSULATION
INSULATE WASTE PIPING ABOVE CEILINGS THAT RECEIVE CONDENSATE WITH 1/2 INCH WALL THICKNESS INSULATION
INSULATE WASTE PIPING, SUPPLY PIPING, STOPS, AND VALVES UNDER HANDICAP ACCESSIBLE PLUMBING FIXTURES.
FLEXIBLE ELASTOMERIC INSULATION
TO KEEP EQUIPMENT IN OPERATION WITHOUT VOIDING THE CONTRACTORS GUARANTEE BOND NOR RELIVING THE CONTRACTOR OF HIS RESPONSIBILITIES DURING THE BONDING PERIOD.

SANITARY RISER DIAGRAM



EQUIPMENT	DRAIN SIZE	VENT
URINAL	φ 2"	φ 1"
W.C.	φ 3"	φ 1 1/2"
LAV.	φ 2"	φ 1"
FD.	φ 3"	φ 1 1/2"
MOP	φ 2"	φ 1"
SINK	φ 2"	φ 1"
HAND SINK	φ 2"	φ 1"
2-COMP SINK	φ 2"	φ 1"
3-COMP SINK	φ 3"	φ 1 1/2"
MOP SINK	φ 3"	φ 1 1/2"
ICE MAKER	φ 2"	φ 1"

GAS RISER DIAGRAM



- SOIL, WASTE AND VENT PIPING SYSTEM**
FURNISH AND INSTALL A COMPLETE SOIL, WASTE AND VENT SYSTEM IN THE BUILDING AND ON THE SITE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. PVC PIPING MAY BE USED ABOVE SLAB.
- SOIL, WASTE AND VENT PIPING SYSTEM**
FURNISH AND INSTALL A COMPLETE SOIL, WASTE AND VENT SYSTEM IN THE BUILDING AND ON THE SITE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. PVC PIPING MAY BE USED ABOVE SLAB.
- ABOVE GROUND SOIL, WASTE AND VENT PIPING WITHIN BUILDINGS INCLUDING SOIL STACKS, HORIZONTAL BRANCHES, TRAPS AND CONNECTIONS TO FIXTURES AND DRAINS.
- UNDERGROUND BUILDING DRAIN PIPING INCLUDING MAINS, BRANCHES, TRAPS, CONNECTIONS TO FIXTURES AND DRAINS, AND CONNECTIONS TO STACKS, TERMINATING AT CONNECTION TO EXISTING SANITARY SEWER.
- INTERIOR PIPING**
- SCHEDULE 40 PVC PIPE AND FITTINGS SHALL BE USED THROUGHOUT. CONTRACTOR SHALL MAINTAIN INTEGRITY OF FIRE RATINGS. PIPING SHALL NOT BE RUN IN PLENUM SPACES AND CONTRACTOR SHALL PROVIDE AND INSTALL INTUMESCENT COLLARS WHEN PENETRATING A RATED WALL, FLOOR, OR OTHER ASSEMBLY.
- 7. CLEANOUTS**
OSAM, SMITH, WADE, URN WATTS, OR MIFAB
- REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROTECT SPECIFIC CLEANOUTS MANUFACTURERS AND MODELS
- 8. FLOOR DRAINS**
OSAM, SMITH, WADE, ZURN, WATTS, MIFAB, SIOUX CHIEF, OR OATEY
- FLOOR DRAIN TO BE URN 415 WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, CAULKED OUTLET, * NICKEL BROWNE STRAINER AND PRIMER CONNECTION.
- NOTE ALL FLOOR DRAINS LOCATED IN ROOMS WHICH HAVE TILE FLOORS SHALL HAVE SQUARE STRAINERS.
- THE PLUMBING CONTRACTOR SHALL PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
- REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE FOR PROTECT SPECIFIC FLOOR DRAIN MANUFACTURES AND MODELS.
- 9. PLUMBING FIXTURES**
REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE
- MANUFACTURER SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PLUMBING FIXTURES AND TRIM OF ONE THE FOLLOWING
- 10. PLUMBING EQUIPMENT**
REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE, ALL EQUALS TO BE APPROVED BY DEALS
- WATER HEATERS - REFER TO PLUMBING FIXTURE AND EQUIPMENT SCHEDULE THERMOSTATIC MIXING VALVES
- THERMOSTATIC MIXING VALVES SHALL BE PROVIDED FOR ALL PUBLIC HAND WASHING SINKS AND LAVATORIES. MOUNT UNDER SINK OR LAVATORY. SET OUTLET TEMPERATURE OF THERMOSTATIC MIXING VALVE TO 110 DEGREES F. POINT OF USE THERMOSTATIC MIXING VALVES SHALL BE EQUAL TO POWERS LM495. ROUTE TEMPERED WATER TO HOT WATER SIDE OF SINK AND LAVATORIES.
- MANUFACTURERS**
SYMMONS
LAWLER
LEONARD
POWERS
BRADLEY
- SHALL BE ASSE 1070 LISTED.
- 11. CATHODIC PROTECTION**
PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR GRASS PIPE

PROJECT TITLE: MACHI MACHI

INTERIOR RENOVATION TO EXISTING TAKEOUT RESTAURANT

187 MAIN STREET UNIT # 8B
FORT LEE, NJ 07024

DRAWING TITLE

PLUMBING PLAN, RISER DIAGRAM AND NOTE

DATE	11/19/21
PROJECT NO	
DRAWN BY	J.KIM
CHECKED BY	Y.SAM YU
CAD FILE NO	

DRAWING NO:

P.01-00

SEAL & SIGNATURE NJ LIC. A19578

CONSTRUCTION PLAN KEY NOTES

1. INSTALL NEW BUCKEYE WET CHEMICAL SYSTEM AS ACCORDING TO THE PLAN
2. G.C TO PROVIDE MIN.8" NONCOMBUSTIBLE BAFFLE BETWEEN STOVE AND FRYER

CODE COMPLIANCE

NFPA 70
NFPA 72
NFPA 13
NFPA 96

SCOPE OF WORK

1. INSTALL NEW BUCKEYE WET CHEMICAL SYSTEM AS ACCORDING TO THE PLAN

PIPE VOLUMES AND CYLINDER SIZE CHART

HOLE SIZE CHART				
QUIK SEAL SIZE	1/4"	3/8"	1/2"	3/4"
HOLE SIZE (DIA)	3/4"	1 1/8"	1 1/8"	1 3/8"

MAXIMUM PIPING CHART

SIZE	VOLUME PER FOOT
3/8"	37.5 mL./ft. (123mL/m)
1/2"	59.8 mL./ft. (196mL/m)

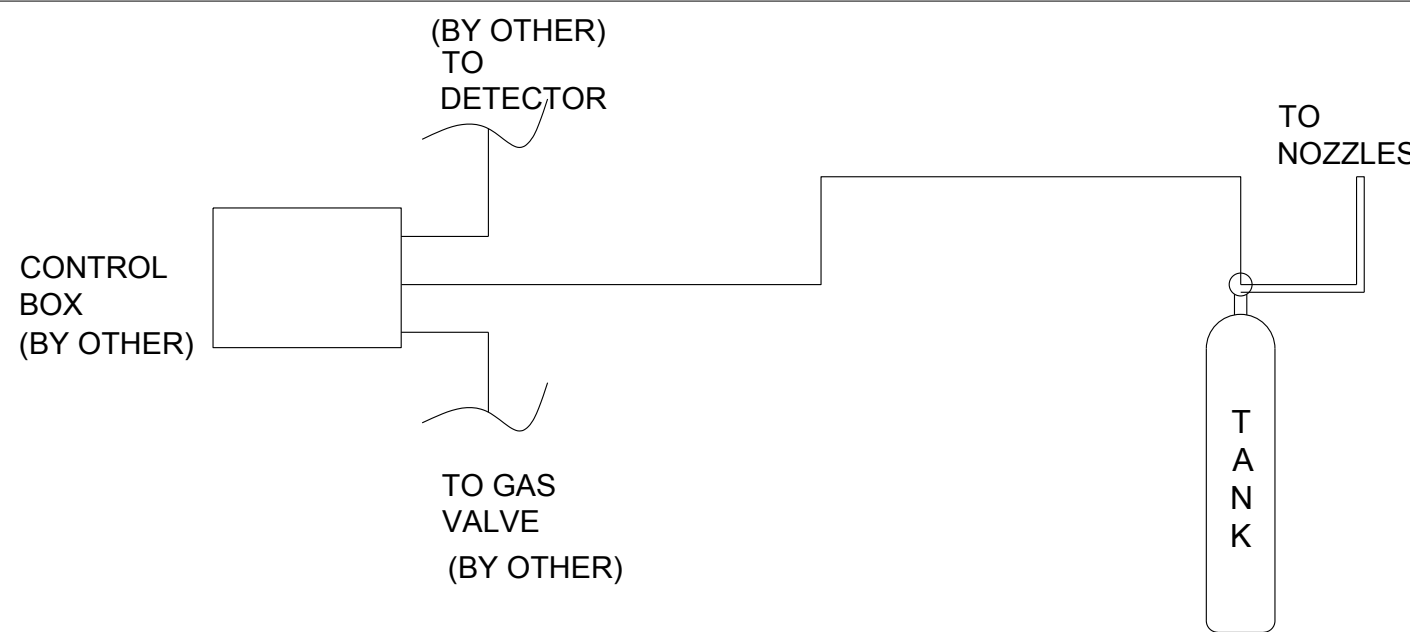
PIPING LIMITATION

1. 3/8" OR 1/2" SCH. 40 BLACK PIPE
2. PIPE SIZE LARGEST TO SMALL ONLY
3. NO "TRAPS" ALLOWED
4. STRAIGHT OR SPLIT LINE PIPING ALLOWED. NO NOZZLES BEFORE A SPLIT
5. MAX. NUMBER OF ELBOWS BETWEEN ANY 2 NOZZLES :5
6. MAX. VERTICAL : 10 FT
7. MAX. VERTICAL RISE FROM NOZZLE TO SUPPLY LINE :2 FT

MAXIMUM PIPING PER CYLINDER SIZE

CYLINDER SIZE	MAX.FLOW POINT	MAX.PIPE VOLUME (mL.)	MAXIMUM PIPE VOL.BEWEEN ANY TWO NOZZLES (mL.)
BFR-5	5	1500	1000
BFR-10	10	2500	2000
BFR-15	15	2800	2500
BFR-20	20	2800	2500

TYPICAL CYLINDER ACTUATION



GENERAL NOTE

GENERAL NOTES:

1. A MAXIMUM OF 100 EQUIV. FT BUT NOT MORE THEN 40 LINEAR FT OF 1/4 PIPE MAY BE USED FOR EACH BRANCH LINE.
2. THE HIGHEST POINT OF THE SYSTEM SHALL NOT EXCEED 12 FT ABOVE THE CYLINDER OUTLET.
3. THE VERTICAL RISE OF A BRANCH LINE ABOVE THE SUPPLY LINE SHALL NOT EXCEED A MAXIMUM OF 4 FT.
4. MAXIMUM DISCHARGE PIPE VOLUME LIMITATIONS SHALL NOT BE EXCEEDED.
5. MAXIMUM EQUIVALENT LENGTH LIMITATIONS SHALL NOT BE EXCEEDED.
6. MAXIMUM FLOW POINT LIMITATIONS FOR A GIVEN PIPE SIZE SHALL NOT BE EXCEEDED.
7. THERE SHALL BE NO LOW POINT OR "TRAPS" PRESENT IN THE DISCHARGE PIPING.

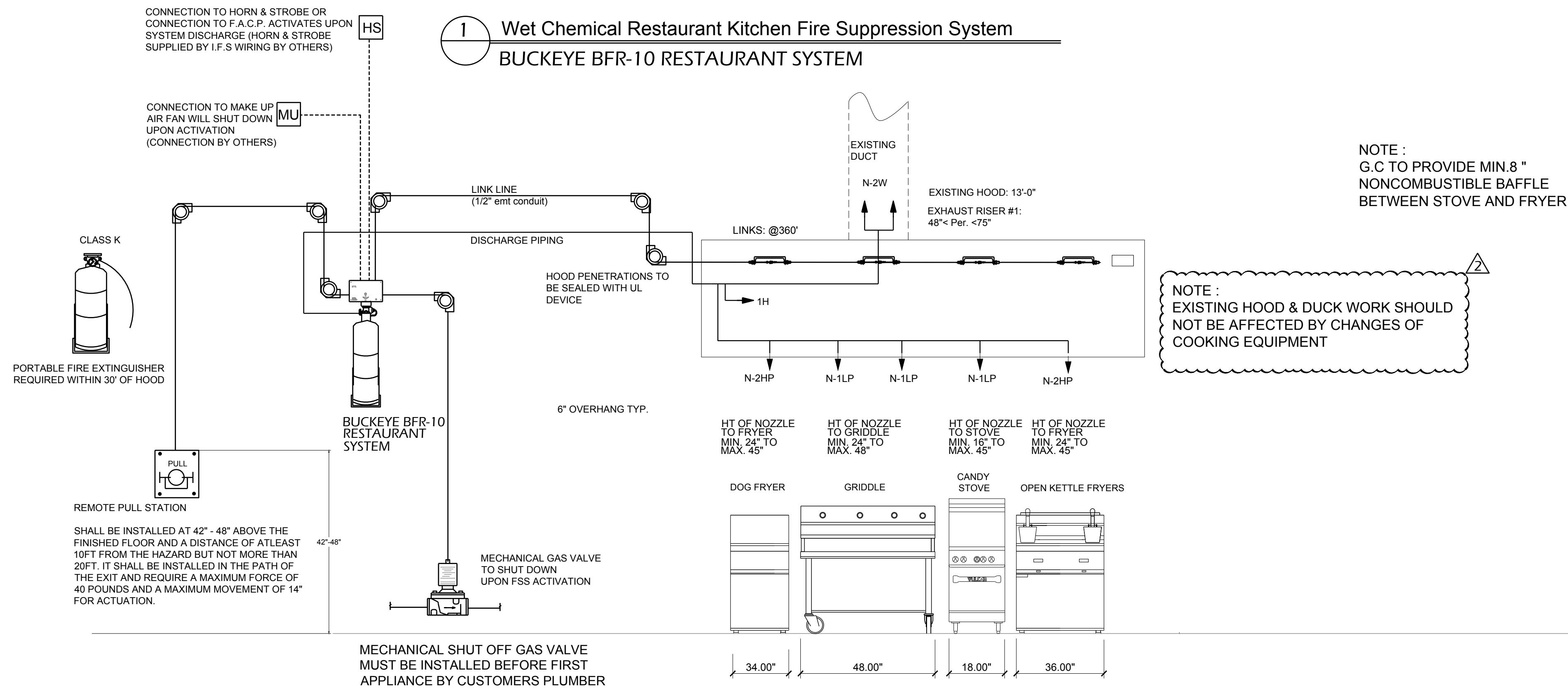
SYSTEM REQUIREMENTS:

- Kitchen Fire Suppression System should be designed for protecting kitchen hood, plenum, exhaust duct, grease filters, and cooking appliances from grease fires.
- The fire suppression system should be of the stored pressure, wet chemical pre-engineered fixed nozzle type.
- The system shall be tested to the UL Standard for Fire Extinguishing Systems for Protection of Restaurant Cooking Area, UL300, and Listed by Underwriters Laboratories, Inc. It shall be installed in accordance with the National Fire Protection Association Standard No. 17A Wet Chemical Extinguisher Systems, and No. 96 Standard for the Installation of Equipment for the Removal of Smoke and Grease Laden Vapors from Commercial Cooking Equipment, NFPA70 - National Electrical Code (if required), NFPA72 - National Fire Alarm Code and comply with all local and/or state codes and standards.
- Installation and maintenance of the system must be performed by an Authorized dealer.

SYSTEM ACTIVATION:

- The system shall be capable of automatic and manual actuation. automatic actuation shall be provided by an appropriate number of fuse link detectors mounted in series on a stainless steel wire input line to the control head.
- manual actuation shall be provided by turning a handle on the primary head and/or by an optional remote pull station with a dedicated stainless steel input line to the control head. the remote pull station shall be installed at a height of 48" above the finished floor and a distance of at least 10 ft from the hazard but no more than 20ft. It shall be installed in the path of the exit.

Wet Chemical Restaurant Kitchen Fire Suppression System
BUCKEYE BFR-10 RESTAURANT SYSTEM



NOTE :
G.C TO PROVIDE MIN.8" NONCOMBUSTIBLE BAFFLE BETWEEN STOVE AND FRYER

NOTE :
EXISTING HOOD & DUCK WORK SHOULD NOT BE AFFECTED BY CHANGES OF COOKING EQUIPMENT

TYPICAL CYLINDER ACTUATION

GENERAL NOTES:

FUEL SHUT-OFF:

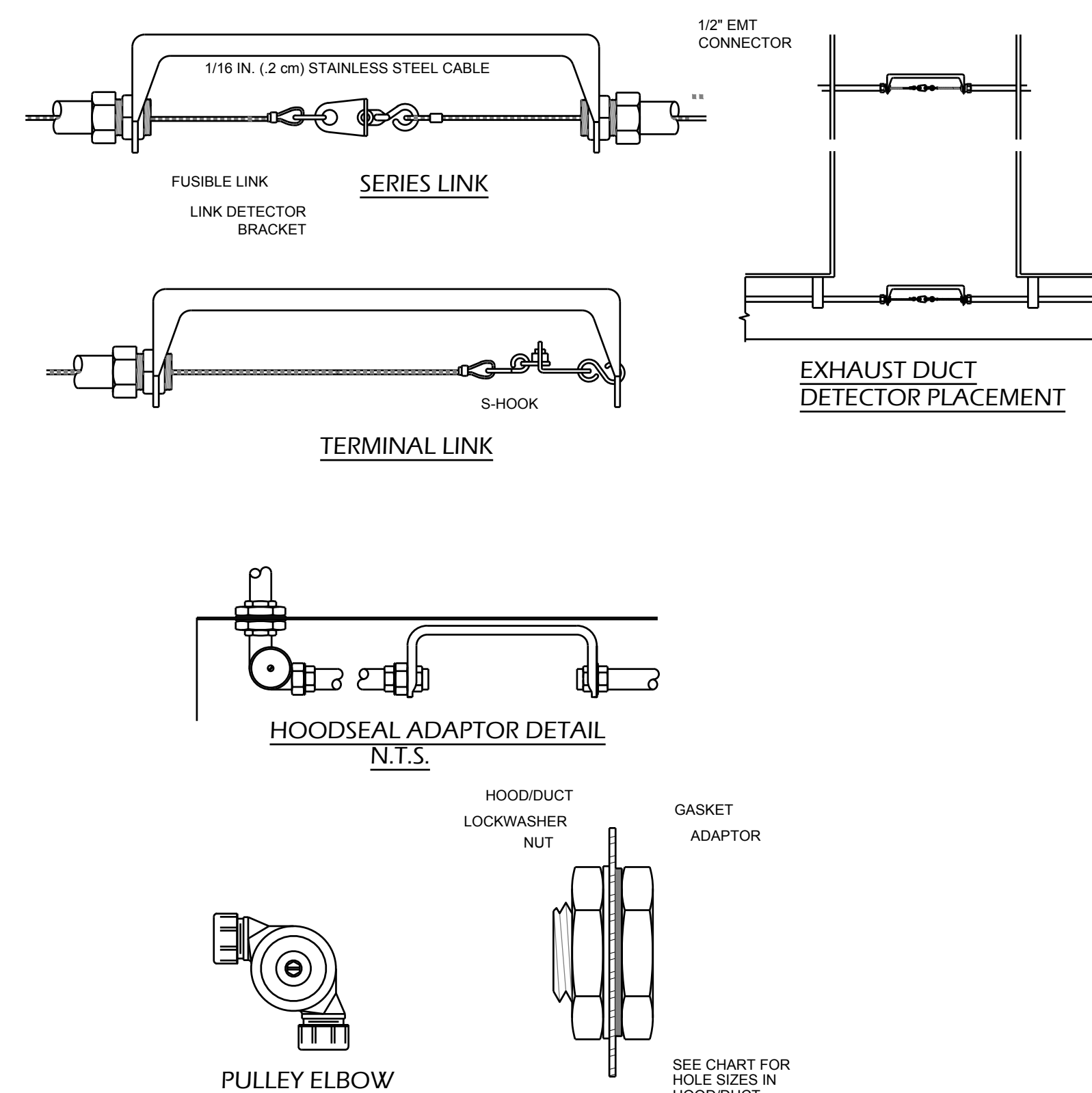
- The system shall be equipped with a means to shut off the cooking fuel. Automatic gas shut-off valve should be installed before the first cooking appliance. Gas valve should comply with requirements pertaining to the shut-off of fuel a described by NFPA 17A. System shall be equipped with micro switches for the shut down of electrical power under the hood upon system actuation.

EXHAUST FANS & MAKE UP AIR:

- System shall be rated for operation with exhaust fan "ON".
- Exhaust and makeupair systems shall be electrically interlocked to insure that makeup air is provided whenever the exhaust system is in operation.
- In case of makeup air supplied internally to a hood it must shut down upon system actuation (NFPA96 8.3.2). UL Light(s) and Exhaust fan(s) in the ventilation system should remain "ON" during system discharge.

ELECTRICAL NOTES:

- All electrical work including: electrical shut down of power under the hood and the shut down of the make up air unit shall be performed by the customers electrician.
- Customers electrician shall provide and install a horn strobe that will activate upon system discharge. Micro switch(es) shall be provided for this function.



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NO.	ISSUE DESCRIPTION	DATE
1	PERMIT	1/25/22
2	REVISION	3/23/22

PROJECT TITLE : MACHI MACHI

INTERIOR RENOVATION TO EXISTING TAKEOUT RESTAURANT

187 MAIN STREET UNIT # 8B
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DRAWING TITLE

ANSUL SYSTEM AND DETAIL

DATE 11/19/21

PROJECT NO

DRAWN BY JKIM

CHECKED BY Y.SAM YU

CAD FILE NO

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