SCOPE OF WORK

CONTRACTOR TO PROVIDE NEW 4.5 TON AIR HANDLING UNIT. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM.

PROVIDE NEW EXHAUST FAN FOR RESTROOMS & MOP SINK.

COORDINATE WITH GC ANY ADDITIONAL REFRIGERATION WORK REQUIRED AND PLUMBING CONTRACTOR PROVIDING CONDENSATE LINES FOR MECHANICAL EQUIPMENT.

MECHANICAL PLAN NOTES

A. CONTRACTOR TO PROVIDE NEW 4.5 TON AIR HANDLING UNIT. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AIR DUCT CONNECTIONS. INSTALL FIRE DAMPERS IN ANY FIRE WALLS AND BETWEEN FLOORS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO A/C UNIT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

B. FOR SYSTEM OVER 2,000 CFM CHECK FOR DUCT MOUNTED AIR SMOKE DETECTORS AND THAT MEET THE REQUIREMENTS OF U.L. 268A, INTERLOCKED TO SHUTDOWN AHU UPON DETECTION OF SMOKE. IF NECESSARY PROVIDE SMOKE DETECTOR WITH AN ANNUNCIATOR, ALARM AND POWER L.E.D.'S FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL. MOUNT ANNUNCIATOR ON ROOM SIDE OF CEILING.

C. ALL DUCTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA/ANSI-HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, LATEST EDITION, SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL LATEST EDITION, NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARD AND 2018 INTERNATIONAL MECHANICAL CODE, SECTION 603. THE MORE STRINGENT REQUIREMENT OF ANY CODES SHALL APPLY.

D. ALL RECTANGULAR OR ROUND SUPPLY AND RETURN DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181 AND INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING, THE MANUFACTURER'S INSTRUCTION AND CONTRACTOR TO PROVIDE NECESSARY TEST CERTIFICATE TO INSPECTOR CONFORMING THE MATERIAL STANDARDS AS SPECIFIED ON 2018 INTERNATIONAL MECHANICAL CODE 302.2. FACTORY-MADE AIR DUCTS SHALL BE INSTALLED WITH NOT LESS THAN 4 INCHES OF SEPARATION FROM EARTH, EXCEPT WHERE INSTALLED AS A LINER INSIDE OF CONCRETE, TILE OR METAL PIPE AND SHALL BE PROTECTED FROM PHYSICAL DAMAGE.

E. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOW OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.

F. THERMOSTATS AND HUMIDISTAT SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. COORDINATE LOCATION OF THERMOSTAT.

G. ALL INTERIOR AIR DUCTS WITH INSULATION SHALL HAVE A MINIMUM OF THICKNESS OF 1.5", R-6 INSULATION AND EXTERIOR DUCTS SHALL HAVE R-8 INSULATION AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE.

H. ALL SEAMS, JOINTS, ETC WILL BE SEALED TO MAKE AIR DUCT AIRTIGHT. PRESSURE SENSITIVE MATERIALS AND OTHERS APPROVED BY LATEST SMACNA. SEALING MATERIALS WILL BE USED.

I. ALL EQUIPMENT AND MATERIALS WILL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO THE BEST PRACTICE.

J. TESTING AND BALANCING SHALL BE DONE IN ACCORDANCE AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (N.E.B.B.), THE ASSOCIATED AIR BALANCE COUNCIL (A.A.B.C) NATIONAL STANDARDS OR EQUIVALENT PROCEDURES.

K. HANGER ATTACHMENTS TO THE STEEL STRUCTURE WILL BE RATED POWDER ACTUATED FASTENERS, "C" CLAMPS, WELDED STUDS, CLAMP HANGERS, JOIST CLAMPS OR OTHER METHODS RECOMMENDED BY SMACNA'S "METAL AND FLEXIBLE STANDARDS", CHAPTER 4, AND WILL HAVE A MINIMUM SAFETY MARGIN OF 4:1. SUSPENDED FROM TOP CHORD OF JOISTS, NOTHING FROM DECK OR CROSS BRACING.

L. ALL HVAC CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

M. PROVIDE FIRE/SMOKE +SMOKE COMBINATION DAMPERS WHEREVER REQUIRED,COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SMOKE/FIRE RATING OF THE WALLS/SLABS/ROOF.COORDINATE ELECTRICAL POWER REQUIREMENT FOR DAMPER ACTUATORS WITH ELECTRICAL CONTRACTOR.

GENERAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.

C. DRAWINGS/DETAILS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES.

D. COORDINATE WITH THE WORK OF OTHERS SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DRIPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

E. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

G. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.

H. G.C.TO VERIFY LOCATION OF PERMISSIBLE NEW STRUCTURAL ROOF PENETRATIONS AND ADAPT THE REQUIRED DUCTS ACCORDINGLY. THE OPENINGS MUST BE LOCATED USING A REBAR LOCATOR, TRYING TO LEAVE A TRANSVERSE BAR WITHIN 4" FROM THE OPENING. LOCATE OPENINGS AT MID-DISTANCE BETWEEN THE STEMS OF THE DOUBLE TEE AND LONGITUDINAL REINFORCEMENT SHALL NEVER BE CUT. CALL THE ARCHITECT'S OFFICE IN CASE OF UNEXPECTED DIFFICULTIES.

I. ALL A/C AND FRESH AIR ROUND EXPOSED DUCTS WILL BE SPIRAL GALVANIZED AND READY FOR PAINTING. ALL RECTANGULAR DUCTS OVER CEILINGS MAY BE SHEET METAL WITH EXTERNAL INSULATION AND EXPOSED DUCTWORK WILL BE WITH INTERNAL INSULATION.

J. G.C. SHALL COORDINATE WITH LANDLORD APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOFING WARRANTY.

K. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS AFTER THE DATE OF ACCEPTANCE AND PROVIDE COPY TO LL.

L. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.

BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF IBC 2018 AND ALL RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

1. THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
2. SMOKE DETECTOR SHALL MEET UL268A.
3. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2018 IMC:
   A. VENTILATION SYSTEM- 2018 IMC 403.3.
4. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
   A. DUCT CONSTRUCTION AND INSTALLATION- 2018 INTERNATIONAL MECHANICAL CODE, 603
   B. STANDARDS OF HEATING 2018 INTERNATIONAL MECHANICAL CODE - 309.1
   C. AIR INTAKES, EXHAUSTS AND RELIEF - 2018 INTERNATIONAL MECHANICAL CODE 401.5
   D. AIR FILTERS - 2018 INTERNATIONAL MECHANICAL CODE 605
   E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS -2018 INTERNATIONAL MECHANICAL CODE - 606
5. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
6. VENTILATION FOR ALL AREA SHALL COMPLY WITH 2018 INTERNATIONAL MECHANICAL CODE 401.
7. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2018 INTERNATIONAL MECHANICAL CODE 403.
8. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
9. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
10. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
11. VENTILATION SYSTEMS SHALL BE BALANCED TO MAINTAIN THE MINIMUM VENTILATION AIRFLOW RATE AS SHOWN IN VENTILATION REQUIREMENT TABLE. THIS SYSTEM SHALL BE BALANCED BY APPROVED CONTRACTOR. CONTRACTOR TO SUBMIT THE AIR BALANCE REPORT TO INSPECTOR OF RESPECTIVE BUILDING DEPARTMENT PRIOR TO FINAL INSPECTION.
12. MECHANICAL SYSTEM COMMISSIONING SHALL BE DONE AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C408.2 IF THE TOTAL MECHANICAL EQUIPMENT CAPACITY BEING INSTALLED OR THE TOTAL MECHANICAL EQUIPMENT CONNECTED LOAD SERVING THE ALTERATION SPACE IS MORE THEN 480,000 BTU/H COOLING AND 600,000 BTU/H COMBINED SERVICE WATER HEATING AND SPACE HEATING

OCCUPANCY DETAILS

DINING ROOM	474 SQ. FT. AS PER ARCH. OCCUPANCY	18	PEOPLE
FRONT SERVICE	315 SQ. FT. AS PER ARCH. OCCUPANCY	7	PEOPLE
	TOTAL	25	PEOPLE

AS PER 2018 IMC - 403.3.1.1 EXCEPTION - OCCUPANCY CONSIDERED AS PER ARCHITECTURAL CALCULATION. PLEASE REFER TO OCCUPANT LOAD CALCULATIONS ON SHEET CS-1

VENTILATION REQUIREMENTS PER 2018 IMC -TABLE 403.3.1.1

DINING ROOM	474 SQ. FT. X	0.18 CFM/SQ. FT. =	86	CFM
	18 PEOPLE. X	7.5 CFM/PEOPLE. =	135	CFM
FRONT SERVICE	315 SQ. FT. X	0.12 CFM/SQ. FT. =	38	CFM
	7 PEOPLE. X	7.5 CFM/PEOPLE. =	53	CFM
BACK OF HOUSE	132 SQ. FT. X	0.12 CFM/SQ. FT. =	16	CFM
BREATHING ZONE OUTDOOR AIRFLOW (Vbz)		=	328	CFM
EXHAUST AIR				
BACK OF HOUSE	70 CFM PER FIXTURE		70	CFM
RESTROOM	70 CFM PER FIXTURE X 1		70	CFM
OUTSIDE AIR PROVIDED			330	CFM
AIR BALANCE				
O/A PROVIDED THROUGH AHU-1(N)			+330	CFM
EF-1(N)			-70	CFM
EF-2(N)			-70	CFM
BUILDING PRESSURE			+190	CFM

DIFFUSER SCHEDULE

MANUFACTURER	TITUS	TITUS	TITUS
DESIGNATION	A	B	R
USE	SUPPLY	SUPPLY	RETURN
MODEL	TDC-AA	250-AA (2/3 WAY)	56FL
MOUNTING	CEILING	CEILING	CEILING
LOCATION	AS SHOWN	AS SHOWN	AS SHOWN
FACE SIZE	24" X 24"	12"X12"	24"X24"
NECK SIZE	REFER TO TABLE A	REFER TO TABLE A	-
FRAME TYPE	LAY IN	FLANGED	FLANGED
ACCESSORIES	VOLUME DAMPER	VOLUME DAMPER	VOLUME DAMPER

NOTES :
1. MAX. NC LEVEL 30 OR LESS.
2. PROVIDE SQUARE TO ROUND NECK ADAPTOR.
3. CONFIRM WITH ARCHITECT/OWNER FOR PAINT AND FINISH.
4. PROVIDE 4 WAY AIR THROW PATTERN UNLESS NOTES OR INDICATED.

FAN SCHEDULE

DESIGNATION	EF-1(N)	EF-2(N)
STATUS	NEW	NEW
QUANTITY	1	1
MANUFACTURER	GREENHECK (OR EQUIVALENT)	GREENHECK (OR EQUIVALENT)
MODEL	SP-A90 (OR EQUIVALENT)	SP-A90 (OR EQUIVALENT)
CFM	70@0.3" W.C. ESP	70@0.3" W.C. ESP
AMPS	0.17 (FLA)	0.17 (FLA)
ACCESSORIES	BDD,LITE KIT	BDD,LITE KIT
WEIGHT (LBS)	12	12
VOLT./PH/HZ	115/1/60	115/1/60

NOTES FOR EF-1(N) & EF-2(N):
1. PROVIDE DISCONNECT SWITCH.
2. INTERLOCK WITH ROOM LIGHT.
3. PROVIDE BACK DRAFT DAMPER.
4. PROVIDE ALL FIELD ACCESSORIES REQUIRED BY MANUFACTURERS.

DUCTED HEAT PUMP SPLIT SYSTEM SCHEDULE

AIR HANDLER UNIT DATA	UNIT TAG	AHU-1(N)
	UNIT TYPE	CEILING CONCEALED
	AREA SERVED	SEE PLAN
	SUPPLY AIR (CFM)	1485
	OUTSIDE AIR (CFM)	330
	STATIC PRESS. (E.S.P.)	0.8
	VOLTS/PH/HZ	208-230/1/60
	AUXILIARY HEATER (KW)	10
	HEATER MODEL NO.	EH10-MPA-LB
	MANUFACTURER	TRANE (OR EQUIVALENT)
	MODEL NO.	TPVFY054AM141A (OR EQUIVALENT)
	WEIGHT, LBS	180
	MAX. UNIT AMPS (208V /240V)	50.8 / 57.7
	MAX. CKT. BRKR. AMPS	80
CONDENSING UNIT DATA	UNIT TAG	ACCU-1(N)
	AIR HANDLER SERVED	AHU-1(N)
	NOMINAL CAPACITY	5.0 TR
	V/Ph/Hz	208-230/1/60
	M.C.A. / M.C.B. AMPS	45 / 80
	MANUFACTURER	TRANE (OR EQUIVALENT)
	MODEL# (CONDENSER)	NTXMSM60A182BA (OR EQUIVALENT)
	TOT. COOLING CAP. (MBH)	60
	TOT. HEATING CAP. (MBH)	66
	SEER2/HSPF2	17 / 9
	WEIGHT, LBS	305

NEW SPLIT SYSTEM NOTES:-
1. PROVIDE LOW/HIGH PRESSURE CONTROL.
2. COORDINATE FINAL LOCATION OF INDOOR AND OUTDOOR UNIT WITH ARCHITECT/OWNER/LANDLORD.
3. SUPPLY AIR CFM BASED ON HIGH SPEED.
4. REFRIGERANT R410A SHALL BE PROVIDED.
5. PROVIDE LOW AMBIENT CONTROL.
6. ALL REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
7. CONTRACTOR SHALL PROVIDE A LONG LINE SET FOR REFRIGERANT PIPING IN THE EVENT THAT TOTAL REFRIGERANT LENGTH EXCEEDS THE MANUFACTURER'S STANDARD RECOMMENDED LENGTH.
8. PROVIDE DRAIN PAN WITH WATER LEAK DETECTOR.
9. VERIFY ALL DATA WITH MANUFACTURER PRIOR TO ORDERING EQUIPMENT.
10. PROVIDE CONDENSATE DRAIN PUMP IF REQUIRED. ROUTE CONDENSATE DRAIN FROM AHU-1(N) TO THE NEAREST PLUMBING DRAIN POINT WITH APPROVED MANNER. COORDINATE WITH PLUMBING CONTRACTOR.

CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS,WIRE SIZES, BREAKERS, DISCONNECT ETC. PRIOR TO ORDERING AND BID.

TABLE -A

FOR SQUARE NECK		FOR ROUND NECK	
NECK SIZE	CFM RANGE	NECK SIZE	CFM RANGE
6"X6"	0-115	Ø6"	0-100
8"X8"	116-220	Ø8"	101-200
10"X10"	221-350	Ø10"	201-400
12"X12"	351-520	Ø12"	401-600
14"X14"	521-730		
16"X16"	731-840		
18"X18"	840-1035		
20"X20"	1036-1285		
22"X22"	1286-1570		

THERMOSTATIC CONTROLS

C403.4.1 THERMOSTATIC CONTROLS (MANDATORY)

THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. WHERE HUMIDIFICATION OR DEHUMIDIFICATION OR BOTH IS PROVIDED, NOT FEWER THAN ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.

C403.4.1.3 SETPOINT OVERLAP RESTRICTION (MANDATORY)

WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE, A LIMIT SWITCH, MECHANICAL STOP OR DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE CONFIGURED TO PREVENT THE HEATING SETPOINT FROM EXCEEDING THE COOLING SETPOINT AND TO MAINTAIN A DEADBAND IN ACCORDANCE WITH SECTION C403.4.1.2.

C403.4.2 OFF-HOUR CONTROLS (MANDATORY)

EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.

C403.4.2.1 THERMOSTATIC SETBACK (MANDATORY)

THERMOSTATIC SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C).

C403.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN (MANDATORY)

AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.

C403.4.2.3 AUTOMATIC START (MANDATORY)

AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

MECHANICAL SYMBOLS

- EXHAUST FAN
- SUPPLY OR OUTSIDE AIR DUCT
- RETURN OR EXHAUST AIR DUCT
- INSULATED RIGID DUCTWORK
- DUCT TRANSITION
- MANUAL VOLUME DAMPER
- FLEXIBLE DUCTWORK R-6.0
- SUPPLY DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS
- RETURN DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS
- CEILING MOUNTED EXHAUST FAN
- CD — CONDENSATE PIPING
- ROOF MOUNTED EXHAUST FAN OUTLET
- AIR HANDLING UNIT
- EXHAUST FAN WITH LIGHT
- OPPOSED BLADE DAMPER
- S — DUCT SMOKE DETECTOR
- T — PROGRAMMABLE THERMOSTAT
- RS — REMOTE SENSOR
- TS — TEMPERATURE SENSOR
- MOTORIZED DAMPER
- FIRE SMOKE DAMPER
- Ø — ROUND DUCT DIAMETER
- CFM — CUBIC FEET/ MINUTE
- S/A — SUPPLY AIR
- R/A — RETURN AIR
- SG — SUPPLY GRILLE

NY ENGINEERS

PROJECT

THE FRESH MONKEE

REVISIONS DATES:

PROFESSIONAL SEAL

ISSUE DATE: 11.04.24
PROJECT #: 409B.1395B1
DRAWN BY: NYE
CHECKED BY: NYE

MECHANICAL NOTES & SCHEDULES

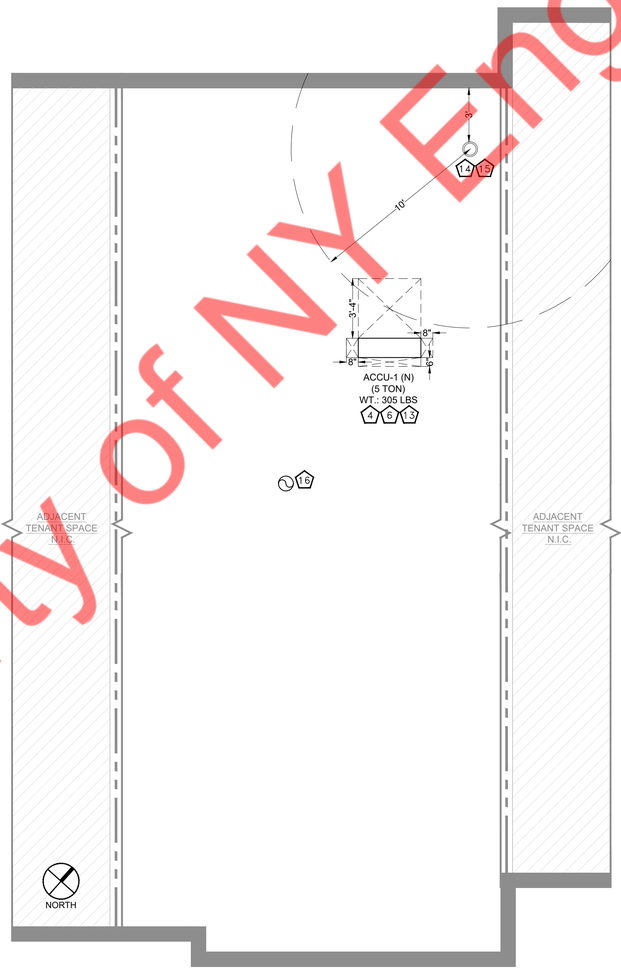
M-1

HVAC PLAN KEYNOTES (#)

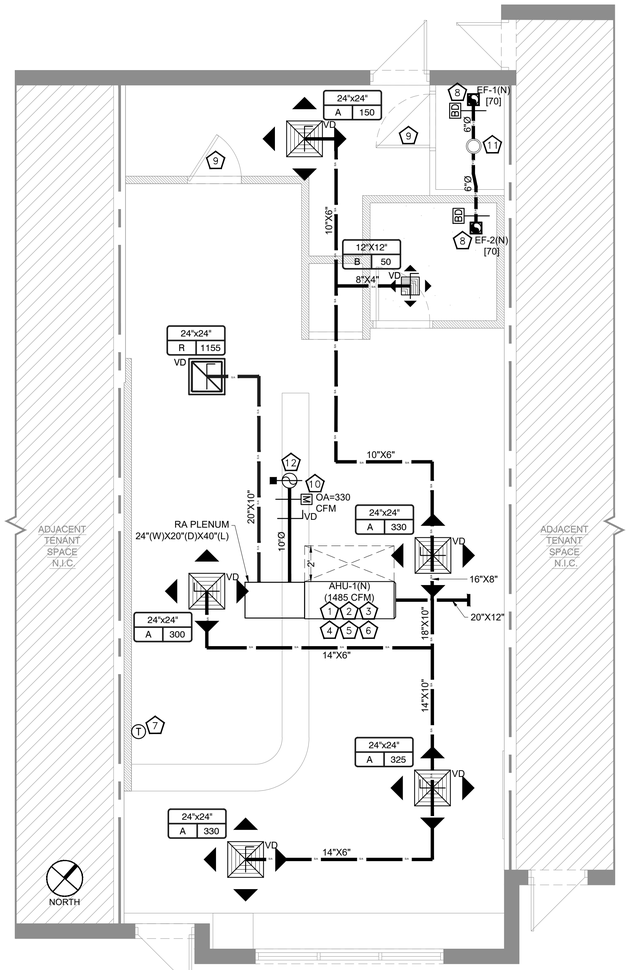
1. EXTEND FULL SIZE SUPPLY & RETURN DUCTWORK FROM HVAC EQUIPMENT TO SPACE. EXTEND AS SHOWN. ACOUSTICALLY LINE THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS.
2. PROVIDE REMOTE TEMP SENSOR MOUNTED IN RETURN DUCT AND WIRE BACK TO T-STAT.
3. CONNECT 1-1/4" CD FROM AHU TO NEAREST PLUMBING DRAIN WITH AIR GAP FITTING. INSTALL CONDENSATE DRAIN WITH 1% TOWARD SINK. PROVIDE CONDENSATE PUMP AS/IF REQUIRED.
4. INSTALL REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNIT AS PER MANUFACTURERS RECOMMENDATIONS. PROVIDE INSULATION TO REF PIPING AS PER ENERGY CONSERVATION CODE. COORDINATE WITH BASE BUILDING ENGINEER FOR PIPE ROUTING AND RISER LOCATION. NOTIFY THE ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING BID.
5. PROVIDE AN AUXILIARY DRAIN PAN WITH WATER LEAKAGE SENSOR IN ORDER TO SHUT-OFF THE UNIT IN CASE OF WATER LEAKAGE. THE PAN SHALL HAVE A DEPTH OF NOT LESS THAN 1.5 INCHES, SHALL BE NOT LESS THAN 3 INCHES LARGER THAN THE UNIT, OR THE COIL DIMENSIONS IN WIDTH AND LENGTH.
6. COORDINATE FINAL LOCATION OF EQUIPMENTS WITH ARCHITECTURAL DRAWINGS..
7. PROVIDE NEW 7-DAY PROGRAMMABLE THERMOSTAT. MOUNT ON WALL AT 48" A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE LOCKABLE COVER.
8. CEILING MOUNTED EXHAUST FAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
9. PROVIDE 1" DOOR UNDER CUT OR 12X6 DOOR GRLLE.
10. MD TO INTERLOCK WITH RESPECTIVE UNITS.
11. Ø8" EXHAUST DUCT UP TO ROOF.
12. Ø10" OUTSIDE AIR DUCT UP TO ROOF.
13. INSTALL CONDENSING UNIT ON THE ROOF WITH ALL REQUIRED ACCESSORIES.
14. EXHAUST SHALL TERMINATE 3 FEET FROM THE PROPERTY LINE, 3 FEET FROM THE EXTERIOR WALL AND ROOFS, 3 FEET FROM THE OPERABLE OPENING INTO THE BUILDING AND MAINTAIN 10 FEET HORIZONTAL OR 3 FEET VERTICAL DISTANCE FROM THE OUTSIDE AIR INTAKE.
15. Ø8" EXHAUST AIR DUCT FROM FIRST FLOOR TERMINATE WITH GOOSENECK AND BIRD SCREEN.
16. Ø10" OUTSIDE AIR DUCT FROM FIRST FLOOR TERMINATE WITH GOOSENECK AND BIRD SCREEN. MAINTAIN 10 FEET HORIZONTAL DISTANCE FROM ANY EXHAUST ON ROOF.

MECHANICAL GENERAL NOTES

A. CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.
B. NEW DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFEST AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
C. COORDINATE LOCATIONS AND SIZES OF INTAKE & EXHAUST OPENINGS WITH OWNER AND RESPECTIVE ENGINEER.
D. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING ETC.
E. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
F. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.
G. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.
H. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES.
I. ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.
J. MOUNT DUCTWORK AS HIGH AS POSSIBLE.
K. TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO G.C AND OWNER.
L. ALL EXPOSED ROUND DUCTWORK SHALL BE INTERNALLY LINED. ALL DUCTWORK DIMENSIONS ARE INSIDE CLEAR.
M. NEW DUCTWORK IN CONCEALED AREAS MAY BE RECTANGULAR WITH EQUIVALENT CROSS SECTIONAL FLOW AREA.
N. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/BARRIERS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FIRE RATINGS OF THE WALLS.
O. ARCHITECTURAL LAYOUT AND DIMENSIONS FOR EQUIPMENT TO TAKE PRECEDENCE OVER MEP.
P. PROVIDE CORD OPERATED DAMPER IN INACCESSIBLE CEILING.
Q. COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURAL ENGINEERS.
R. COORDINATE ALL EQUIPMENT WITH STRUCTURAL.
S. MAINTAIN ALL CODE AND MANUFACTURERS RECOMMENDED CLEARANCE AROUND ALL ROOF EQUIPMENT.
T. PROVIDE WEATHER PROOF COATING FOR ALL EXTERIOR DUCTING AND PIPING.
U. PROVIDE R-8 INSULATION FOR OAI DUCT.
V. CONTRACTOR TO PROVIDE INSTALLATION AND START-UP FORMS FOR ALL THE GAS-FIRED EQUIPMENT AT THE TIME OF MECHANICAL FINAL INSPECTION.



HVAC ROOF PLAN | SCALE 1/4" = 1'-0" | 2



HVAC FLOOR PLAN | SCALE 1/4" = 1'-0" | 1

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PROJECT

THE FRESH MONKEE

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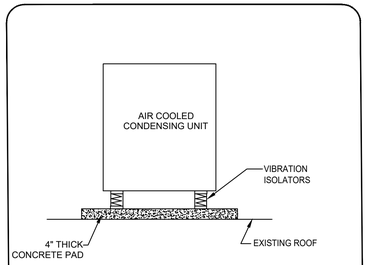
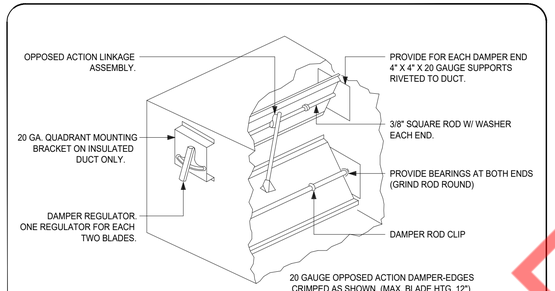
HVAC FLOOR & ROOF PLAN

M-2



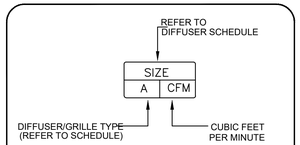
CONDENSING UNIT DETAILS

NOT TO SCALE



VOLUME DAMPER DETAIL

NOT TO SCALE



DIFFUSER/GRILLE TAG

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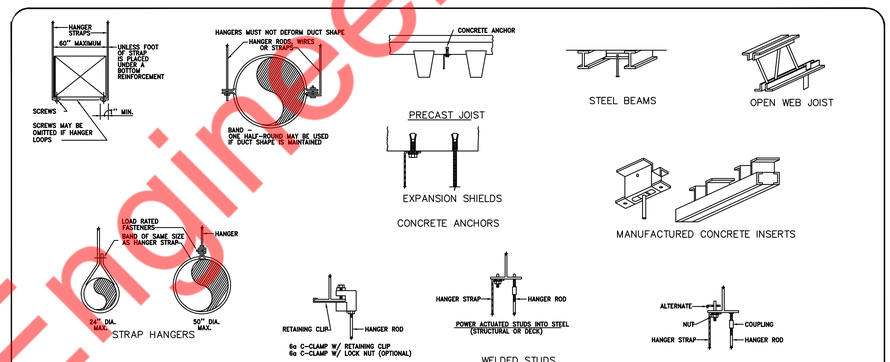
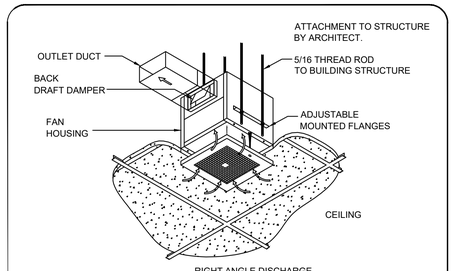


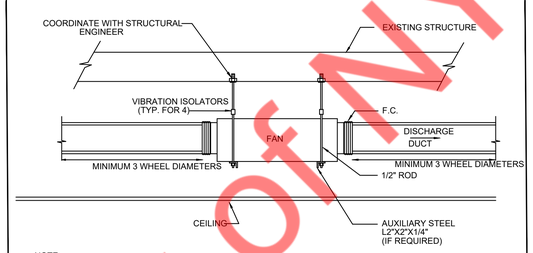
UPPER & LOWER ATTACHMENTS & DEVICES

NOT TO SCALE



CEILING EXHAUST FAN DETAIL

NOT TO SCALE

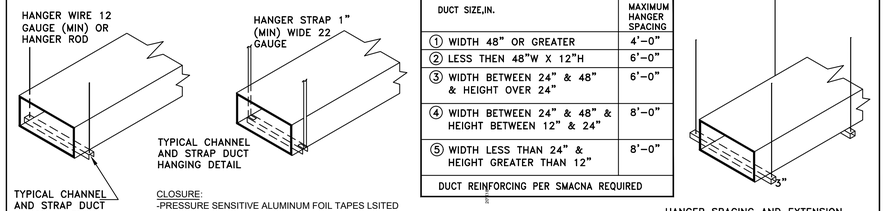


NOTE:
1. DUCT LENGTH TO BE MINIMUM THREE WHEEL DIAMETER ON DISCHARGE AND INLET.

INLINE FAN SUPPORT DETAILS

NOT TO SCALE

CHANNEL SELECTION		
DUCT WIDTH MIN.	CHANNEL GUAGE MIN.	CHANNEL PROFILE
LESS THAN 18"	22 3"x 2"	
LESS THAN 30"	18 3"x 2"	

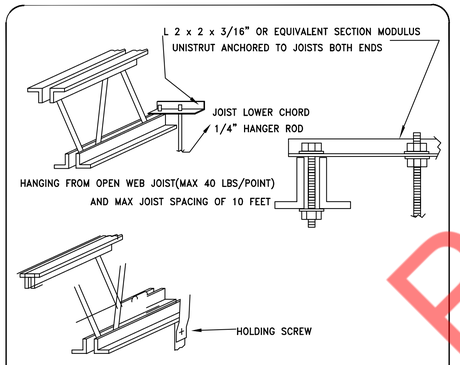


DUCT SIZE,IN.	MAXIMUM HANGER SPACING
① WIDTH 48" OR GREATER	4'–0"
② LESS THEN 48"W X 12"H	6'–0"
③ WIDTH BETWEEN 24" & 48" & HEIGHT OVER 24"	6'–0"
④ WIDTH BETWEEN 24" & 48" & HEIGHT BETWEEN 12" & 24"	8'–0"
⑤ WIDTH LESS THAN 24" & HEIGHT GREATER THAN 12"	8'–0"
DUCT REINFORCING PER SMACNA REQUIRED	

CLOSURE:
-PRESSURE SENSITIVE ALUMINUM FOIL TAPES LSITED UNDER UL 181A, PART I (P)
- HEAT ACTIVATED ALUMINUM FOIL/SCRIM TAPES LISTED UNDER UL 181A, PART II (H)
- MASTIC AND GLASS FABRIC TAPE CLOSURE SYSTEMS LISTED UNDER UL 181A, PART III (M)

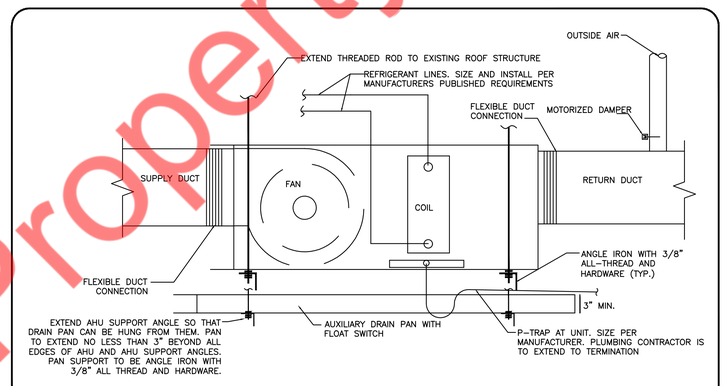
DUCT SUPPORTS

NOT TO SCALE



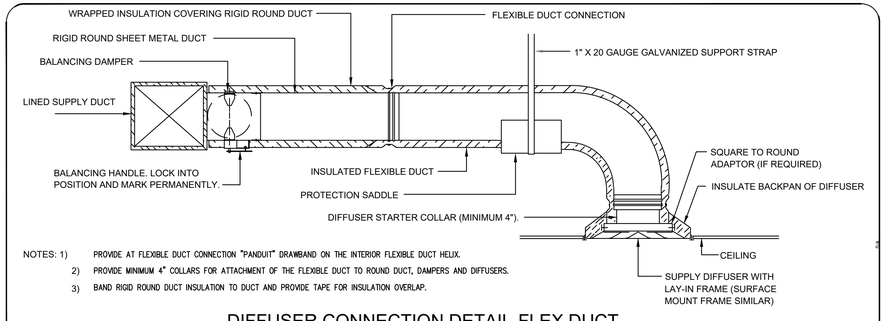
DUCT MOUNTING DETAIL

NOT TO SCALE



TYPICAL DUCTABLE AC UNIT DETAIL

NOT TO SCALE



NOTES: 1) PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
3) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

DIFFUSER CONNECTION DETAIL-FLEX DUCT

NOT TO SCALE

NY ENGINEERS

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HVAC DETAILS

M-3

RESTROOM FIXTURE SCHEDULE

Item No.	Qty.	Description	Manufacturer	Model	WATER Hot	WATER Cold	WASTE Waste	Usage	Spec
A	1	WATER CLOSET	AMERICAN STANDARD	2988101.02		3/4"	4"	1.28	GPF
B	1	LAVATORY	AMERICAN STANDARD	9024001EC.020			2"		
B1	1	FAUCET LAVATORY*	AMERICAN STANDARD	702B305.002	1/2"	1/2"			

* PUBLIC LAVATORY METERING FAUCET TO BE SET AT 0.25 GALLON PER METERING CYCLE.

KITCHEN EQUIPMENT PLUMBING SCHEDULE

Item No.	Qty.	Description	MANUFACTURER	MODEL	WATER Hot	WATER Cold	WASTE Direct	WASTE Indirect
5	2	ONE COMPARTMENT PREP SINK	BK RESOURCES	ES-1-18-12				1-1/2"
5A	2	FAUCET PREP SINK	BK RESOURCES	BKF-8W-6-G	1/2"	1/2"		
6	1	3-COMPARTMENT SINK	BK RESOURCES	ES-3-18-12-18T				3 @ 1-1/2"****
6A	1	PRE RINSE FAUCET 3 COMP SINK	BK RESOURCES	BKF-SMPR-WB-G	1/2"	1/2"		
6B	1	PRE RINSE ADD-ON FAUCET 3 COMP SINK	BK RESOURCES	BKF-SMPR-WB-G	1/2"	1/2"		
7	1	HAND SINK	BK RESOURCES	BKHS-D-SS-SS-P-G	1/2"	1/2"	2"	
11	1	ICE MAKER W / BIN	HOSHIZAKI	KM-350MAJ		1/2"		3/4"
14	1	MOP SINK	BK RESOURCES	BKMS-1620-12			3***	
14A	1	FAUCET MOP SINK	BK RESOURCES	BKSF-WB1	1/2"	1/2"		
FD	3	FLOOR DRAIN*	ZURN	Z1900-23-31 (ZS1900 IF IN EXPOSED AREAS)			3" / 4"	
FS	1	FLOOR SINK	REGENCY	600FSG1212SS			3"	
FFD	1	FUNNEL DRAIN	-	-			3"	
TMV	3	THERMOSTATIC VALVE	WATTS	LFMMV	1/2"	1/2"		

*PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS/**ADAPTOR REQUIRED/***LEVER WASTE VALVE REQUIRED

SCOPE OF WORK

PROVIDE ALL PLUMBING FOR NEW FRESH MONKEE RESTAURANT INCLUDING ALL WATER, GREASE, SANITARY & VENT LINES AND CONNECT TO EXISTING UTILITIES. PROVIDE NEW STORAGE ELECTRIC WATER HEATER AND ONE NEW GREASE INTERCEPTOR.

COORDINATE WITH GC AND MECHANICAL CONTRACTOR FOR ANY REQUIRED CONDENSATE LINES.

PLUMBING NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING OR PRECEDING WITH WORK.
3. ALL EQUIPMENT WHICH IS TO REMAIN MUST BE REFURBISHED TO A LIKE NEW CONDITION.
4. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
5. ALL MATERIALS SHALL BE NEW.
6. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANNLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
7. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES. CONTRACTOR TO PROVIDE THIRD PARTY CERTIFIED TESTING AND BALANCING AS PER LOCAL AUTHORITY REQUIREMENT.
9. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
10. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
11. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
12. EXPOSED WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER. WATER PIPING IN WALLS AND UNDERGROUND MAY BE "PEX" TYPE PIPING THAT MEETS ANSI/NSF STANDARD 61.
13. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE PVC BUT MAY NOT RUN THRU RATED ASSEMBLIES OR IN PLENUMS.
14. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
15. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE.
16. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS; EXCEPT AT WATER HEATER AS PER CODE.
17. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
18. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
19. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE WITHIN 72 HOURS OF NOTIFICATION AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED. PROVIDE COPY TO LL.
20. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY NOT BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF.
21. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL CLEANOUTS.
22. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
23. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
24. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.
25. CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH40 PIPE AND STUBBED OUT OF WALL TO UNIT. TIE-IN OF A/C TO BE BY OTHERS. PVC PIPING WITH 1/2" THICK ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40 FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40.
26. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
27. NO JOINTS UNDERGROUND FOR COPPER.
28. PLUMBING FIXTURES SHALL COMPLY WITH INTERNATIONAL PLUMBING CODE 2018.
29. WATER HAMMER ARRESTORS AS PER INTERNATIONAL PLUMBING CODE 2018.
30. PLUMBING CONTRACTOR TO PROVIDE ANTI-SCALDING VALVE FOR TUBS AND SHOWERS.
31. PLUMBING CONTRACTOR SHALL REVIEW ALL BID DOCUMENTATION.
32. PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING BARRIER-FREE COMPLIANCE (EXAMPLE: CENTER LINE TO TOILET).
33. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
34. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. PROVIDE A COPY TO LL.

PLUMBING LEGENDS

SAN	SANITARY SEWER PIPING
GSAN	GREASE SANITARY SEWER PIPING
V	VENT PIPING
	DOMESTIC COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
EX.CW	EXISTING COLD WATER PIPING
EX.HW	EXISTING HOT WATER PIPING
	PIPE RISE
	PIPE DROP
	GAS PIPING
DCVA	DOUBLE CHECK VALVE ASSEMBLY
S.O.V.	SHUT - OFF VALVE
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
	GAS SHUT OFF VALVE
I.W.	INDIRECT WASTE
FCO	FLOOR CLEAN OUT
	P-TRAP
	GATE VALVE
	WATER HAMMER ARRESTER
FD	FLOOR DRAIN
	CHECK VALVE
	BALANCING VALVE
FFD	FUNNEL DRAIN
FS	FLOOR SINK
	POINT OF CONNECTION
	THERMOSTATIC MIXING VALVE

GREASE INTERCEPTOR SCHEDULE

ITEM	QTY.	SERVICE	FLOW CAPACITY (GPM)	GREASE CAPACITY (LBS)	MANUFACTURER AND MODEL
GREASE INTERCEPTOR (GI)	1	KITCHEN AREA	35	70	JOHN BOOS GT-70

NOTE:-
1. CONTRACTOR TO PROVIDE ALL REQUIRED ACCESSORIES FOR SATISFACTORY WORKING OF GREASE TRAP AND SOLIDS INTERCEPTOR AS PER SITE CONDITIONS.
2. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR AND SOLIDS INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION.

GREASE INTERCEPTOR SIZING FOR GI

TAG	DESCRIPTION	QTY	DIMENSIONS LENGTH	DIMENSIONS WIDTH	DIMENSIONS DEPTH	VOLUME CU IN	VOLUME GALLONS	%USAGE	GPM 2 MIN
5	PREP SINK	02	18	18	12	7776	33.66	0.75	12.62
6	3 COMPARTMENT SINK	01	18	18	12	11664	49.87	0.75	18.94
							TOTAL GPM		31.56

ENERGY CONSERVATION NOTES

1. AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C404.4, PIPING FROM A WATER HEATER TO THE TERMINATION OF HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE OF MINIMUM PIPE INSULATION THICKNESS TABLE C403.12.3.

MINIMUM PIPE INSULATION THICKNESS (IN INCHES)

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY CONDUCTIVITY BTU x IN./ (H x FT² x °F)	INSULATION CONDUCTIVITY MEAN RATING TEMPERATURE °F	NOMINAL PIPE OR TUBE SIZE (INCHES) <1	1 to < 1½	1½ to < 4
141-200	0.25-0.29	125	1.5	1.5	2.0
105-140	0.21-0.28	100	1.0	1.0	1.5
40-60	0.21-0.27	75	0.5	0.5	1.0

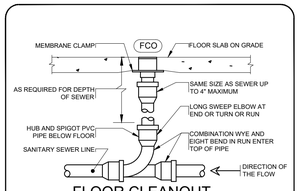
2. HOT WATER SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C404.5.1. THE HOT WATER VOLUME FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER MAXIMUM PIPING LENGTH TABLE.

NOMINAL PIPE SIZE (INCHES)	MIXIMUM PIPING LENGTH (FEET) PUBLIC LAV	MIXIMUM PIPING LENGTH (FEET) OTHER FIXTURES
⅜"	3'	50'
½"	2'	43'
¾"	0.5'	21'
1"	0.5'	13'
1¼"	0.5'	8'
1½"	0.5'	6'
2" OR LARGER	0.5'	4'

3. AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C404.6.1, AUTOMATIC CONTROLS SHALL BE INSTALLED THAT LIMITS THE OPERATION OF A RECIRCULATING PUMP AND THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE.
4. AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C404.7, DEMAND CIRCULATION WATER SYSTEMS HAVE CONTROLS THAT START THE PUMP ON RECEIVING THE SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE AND LIMITS THE TEMPERATURE OF THE WATER ENTERING THE COLD WATER PIPING TO 104°F.

FIXTURE BRANCH SCHEDULES

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET	3/4"	-	4"	2"
LAVATORY	1/2"	1/2"	2"	1½"
MOP SINK	1/2"	1/2"	3"	2"
HAND SINK	1/2"	1/2"	2"	1½"
PREP SINK	1/2"	1/2"	I.W	--
3 COMP SINK	1/2"	1/2"	I.W	--
FUNNEL DRAIN	--	--	3"	2"
FLOOR DRAIN	--	--	3"	2"
FLOOR SINK	--	--	3"	2"

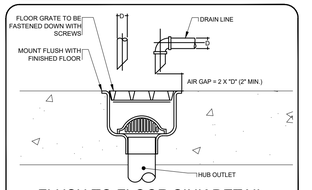


FLOOR CLEANOUT
NOT TO SCALE

*NOTE- COORDINATE WITH ARCHITECT FOR PATCHING/TRENCHING THE SLAB.

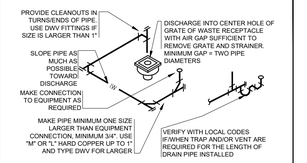
FLOOR CLEANOUT DETAIL NOTES

1) LOCATE CLEANOUT AT THIS LOCATIONS:
   A) BUILDING EXIT
   B) AT TURNS OF PIPES GREATER THAN 45 DEGREES
   C) AT 90' INTERVALS ON STRAIGHT RUNS
   D) WHERE IS SHOWN ON PLANS
   E) WHERE IS 18" CLEAR AROUND

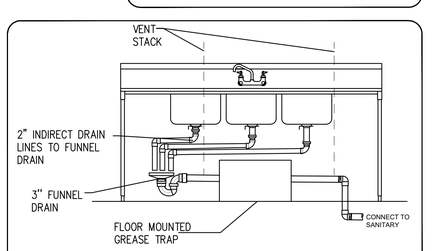


FLUSH TO FLOOR SINK DETAIL
NOT TO SCALE

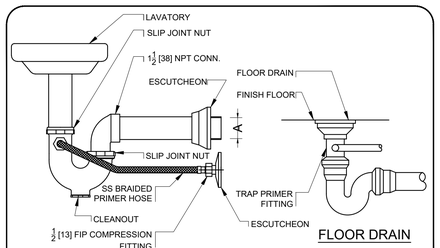
*NOTE- COORDINATE WITH ARCHITECT FOR PATCHING/TRENCHING THE SLAB.



INDIRECT WASTE CONNECTION DETAIL
NOT TO SCALE

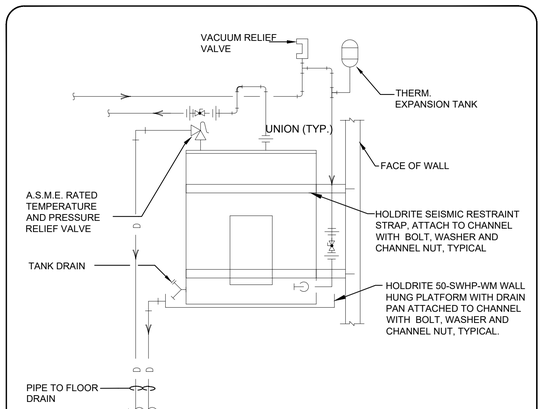


RECESSED FLUSH IN FLOOR WITH FLOOR SINK
NOT TO SCALE



TRAP RESEAL DETAIL
NOT TO SCALE

FLOOR DRAIN



ELECTRIC WATER HEATER
NOT TO SCALE

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GENERAL NOTES, SCHEDULES & DETAILS

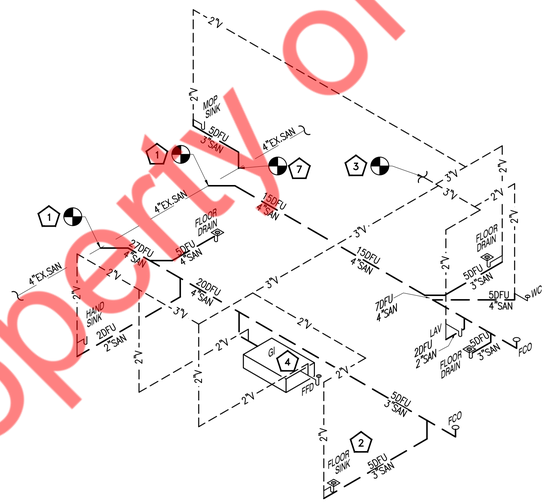
P-1

GENERAL NOTES

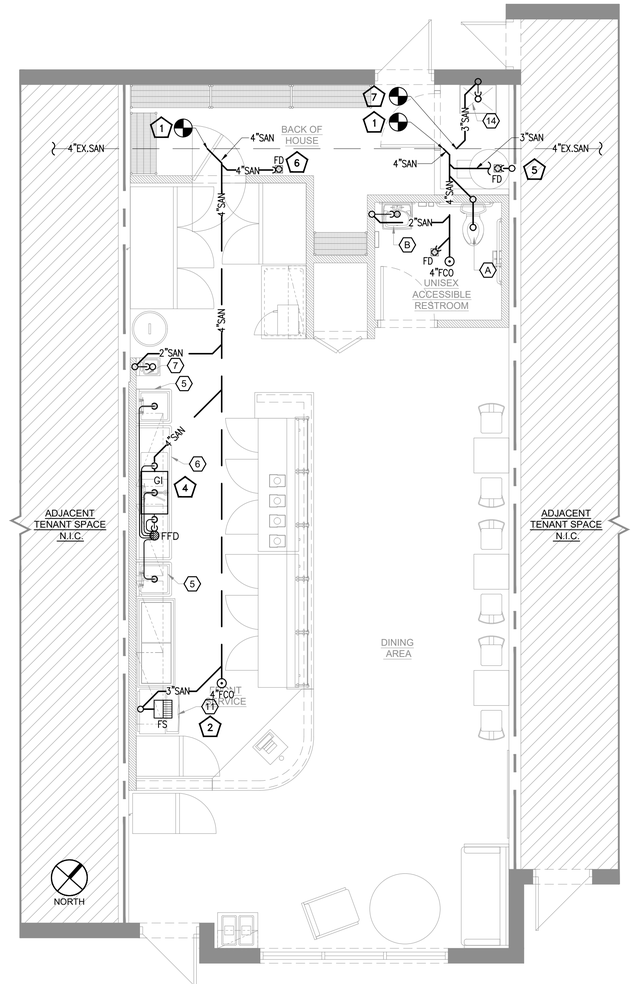
1. SLOPE OF DRAINAGE PIPING SHALL BE 1/8" PER FOOT OF RUN FOR PIPE 3" TO 6" AND 1/4" PER FOOT OF RUN FOR PIPE 2-1/2" AND SMALLER, EXCEPT WHERE THE DRAINAGE PIPING IS UPSTREAM OF A GREASE INTERCEPTOR, THE SLOPE OF THE PIPING SHALL BE NOT LESS THAN 1/4" PER FOOT. VENT PIPING SHALL BE PITCHED TO DRAIN.
2. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
3. ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
4. ALL CLEANOUTS TO BE ACCESSIBLE.
5. REFER SANITARY RISER DIAGRAM FOR ALL PIPE SIZES.
6. CONTRACTOR TO FIELD VERIFY THE EXISTING SANITARY AND VENT LOCATION AND ROUTING. MAKE NECESSARY CHANGES TO NEW PIPING AS PER THE EXISTING SITE CONDITION.

SANITARY PLAN KEY NOTE

1. CONNECT NEW 4" SANITARY WASTE PIPING TO EXISTING SANITARY MAIN LINE OF ADEQUATE SIZE INNEARBY SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, FLOW DIRECTION AND INVERT OF EXISTING SANITARY MAIN AND MAKE NECESSARY CHANGES IF REQUIRED.
2. ROUTE INDIRECT DRAIN FROM ICE MAKER WITH BIN TO NEARBY FLOOR SINK WITH APPROVED AIR GAP AS PER LOCAL CODE REQUIREMENTS.
3. CONNECT NEW 3" VENT PIPE TO EXISTING VENT PIPE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION & SIZE OF EXISTING VENT PIPE AND UPGRADE IF REQUIRED.
4. FLOOR MOUNTED INTERNAL GREASE INTERCEPTOR JOHN BOOS GT-70 UNDER THE 3-COMPARTMENT SINK. VERIFY THE EXACT PLACEMENT OF GREASE INTERCEPTOR AND COORDINATE WITH FOOD SERVICE EQUIPMENT PLANS. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH CITY/COUNTY REGULATIONS AND MANUFACTURER'S INSTRUCTION.SEE SHEET P-1 FOR SPECIFICATION.
5. ROUTE INDIRECT DRAIN FROM WATER HEATER TO FLOOR DRAIN WITH APPROVED AIR GAP AS PER LOCAL CODE REQUIREMENTS.
6. ROUTE INDIRECT DRAIN FROM RPZ TO FLOOR DRAIN WITH APPROVED AIR GAP AS PER LOCAL CODE REQUIREMENTS.
7. CONNECT NEW 3" SANITARY WASTE PIPING TO EXISTING SANITARY MAIN LINE OF ADEQUATE SIZE IN/NEARBY SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, FLOW DIRECTION AND INVERT OF EXISTING SANITARY MAIN AND MAKE NECESSARY CHANGES IF REQUIRED.



SANITARY RISER | SCALE N.T.S. | 2



SANITARY PLAN | SCALE 1/4" = 1'-0" | 1

NY ENGINEERS

PROJECT

THE FRESH MONKEE

REVISIONS DATES:

PROFESSIONAL SEAL

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CHECKED BY: NYE

SANITARY PLAN & RISER

P-2

RECIRCULATION PUMP SCHEDULE	
MANUFACTURER & MODEL	GRUNDFOS UP-15-18 B5
EQUIPMENT TAG	RCP-1
STATUS	NEW
GPM	2
WATER TEMP.(°F)	140
PUMP TYPE	INLINE
MHP	85 WATTS
V/PH/HZ	115/1/60
RPM	2280
SERVICE FACTOR	1.0

NOTE:

1. PROVIDE AQUA STAT WITH AUTOMATIC TIMER KIT FOR THE TEMPERATURE CONTROL OF HOT WATER SYSTEM. COORDINATE ELECTRICAL REQUIREMENTS FOR TIMER WITH ELECTRICAL CONTRACTOR.

NEW ELECTRIC STORAGE WATER HEATER SCHEDULE	
MANUFACTURER	AO SMITH
MODEL	DEL-50
EQUIPMENT TAG	WH-1
STATUS	NEW
CAPACITY	50 GALLONS
QUANTITY	1
POWER REQUIREMENT	9 KW
RECOVERY	41 GPH*
VOLTAGE	240
AMPERAGE	37.5
WEIGHT	166 LBS

NOTES:

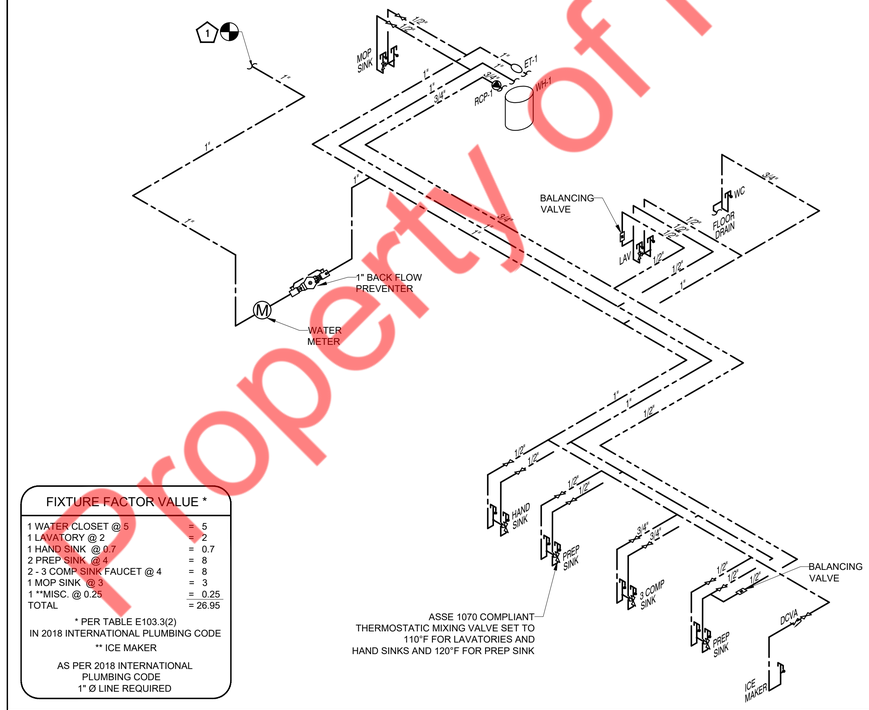
1. OPERATION ELEMENT @ 86° F TEMPERATURE RISE.
2. INSTALL NEW EXPANSION TANK (ET-1) AMTROL MODEL THERM-X-TROL ST-5C-DD, 2.0 GAL PER LOCAL CODE REQUIREMENTS.

GENERAL NOTES

1. CW/HW/HWR PIPING TO BE PROVIDED WITH INSULATION AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE.
2. PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
3. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR & SHUT-OFF VALVES AS REQUIRED.
4. REFER WATER RISER DIAGRAM FOR ALL PIPE SIZES.
5. NEW WATER HEATER DRAIN SPILLS TO FLOOR DRAIN.

PLUMBING KEY NOTE

1. CONNECT NEW 1" CW LINE TO EXISTING WATER MAIN LINE WITH NEW 1" WATER METER AND PROVIDE NEW BACKFLOW PREVENTER AS SHOWN ON PLAN IF EXISTING IS NOT AVAILABLE OR NOT IN GOOD CONDITION. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF EXISTING WATER LINE AND MAKE NECESSARY CHANGES IF REQUIRED.
2. NO TAP OFF SHOULD BE TAKEN BEFORE BFP.



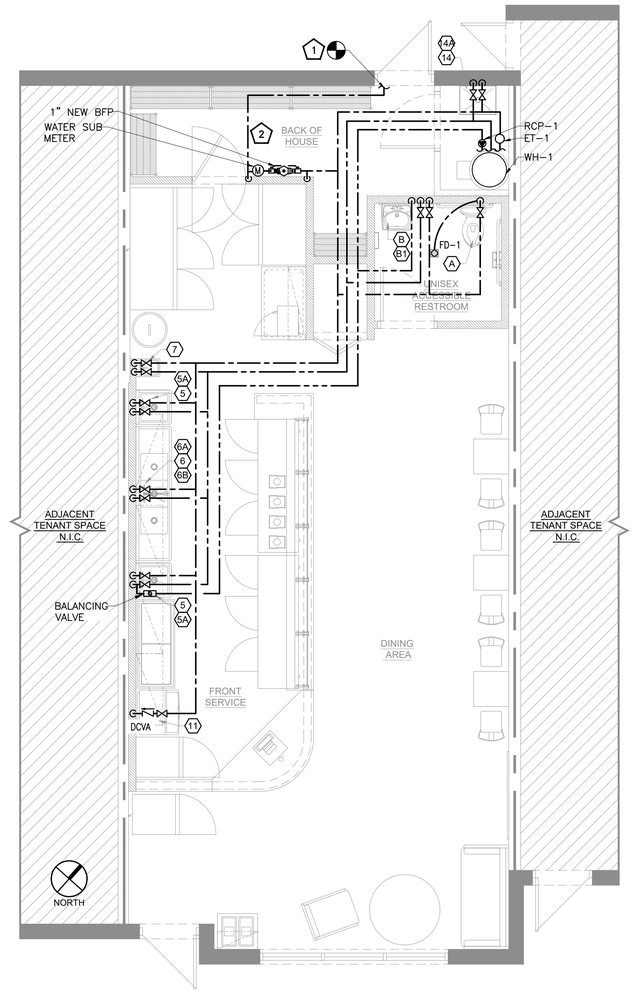
FIXTURE FACTOR VALUE *		
1 WATER CLOSET @ 5	=	5
1 LAVATORY @ 2	=	2
1 HAND SINK @ 0.7	=	0.7
2 PREP SINK @ 4	=	8
2 - 3 COMP SINK FAUCET @ 4	=	8
1 MOP SINK @ 3	=	3
1 **MISC. @ 0.25	=	0.25
TOTAL	=	26.95

* PER TABLE E103.3(2) IN 2018 INTERNATIONAL PLUMBING CODE

** ICE MAKER

AS PER 2018 INTERNATIONAL PLUMBING CODE
1" Ø LINE REQUIRED

WATER RISER | SCALE N.T.S. | 2



WATER PLAN | SCALE 1/4" = 1'-0" | 1

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WATER PLAN & RISER

P-3

SCOPE OF WORK

1. REUSE EXISTING 120/240V, 1-PHASE 3-WIRE ELECTRICAL METER AND DISCONNECT SWITCH FOR THE PROJECT SPACE.
2.REUSE EXISTING 100A(M.L.O), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "A" FOR THE PROJECT SPACE.
3.REUSE EXISTING 200A(M.L.O), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "B" FOR THE PROJECT SPACE.
4.PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE PROJECT SPACE INCLUDING WIRING FOR VENTILATION
5.EQUIPMENT. COORDINATE WITH G.C FOR LOW VOLTAGE WIRING.

ELECTRICAL PLAN NOTES

1. ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
2. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
3. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
4. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 EDITION OF THE NATIONAL ELECTRICAL CODE AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
6. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
7. ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY.
8. ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID GALVANIZED STEEL.
9. CIRCUIT BREAKERS AND PANELS TO BE PLUG ON TYPE.
10. ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
11. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146
12. ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
13. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
14. SEPARATE PERMIT REQUIRED FOR SIGNAGE.
15. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED.
16. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
17. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN INSULATION.
18. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
19. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
20. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. OR LOCAL CODES.
21. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
22. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
23. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
24. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
25. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
26. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
27. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
28. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
29. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
30. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.
31. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.
32. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C. NEMA, AND IECE.
33. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
34. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
35. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN DIRECTORIES.
36. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
37. ALL LIGHT SWITCHES TO BE AT 42" A.F.F.
38. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
39. BREAKER AND PANELS -- ALL CURRENT CARRYING BUSSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES OR SHALL BE COORDINATED ON SITE.
40. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
41. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
42. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
43. CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
44. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
45. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION -- FOR THE WHOLE CIRCUIT.
46. GAS PIPING SHALL BE BONDED.
47. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
48. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
49. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.
50. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6'-0" OR LESS).
51. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUIDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.
52. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.
53. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.
54. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.
55. 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN LIT DURING ALL MALL BUSINESS HOURS.
56. TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANY/ALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE.
57. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
58. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	EXHAUST FAN
J	JUNCTION BOX
	BATTERY BACK UP EXIT LIGHT
	BATTERY BACK UP EMERGENCY LIGHT
$	WALL SWITCH (SINGLE)
$T	TIMER WALL SWITCH
$OS	OCCUPANCY SENSOR WALL
USB	DUPLEX RECEPTACLE WITH USB PROVISION.
	DUPLEX RECEPTACLE, 46" TO AFF AT KITCHEN, BATHS AND TOPS
	QUADRUPLEX RECEPTACLE
CL	CEILING MOUNTED DUPLEX RECEPTACLE
	230V RECEPTACLE
	ELECTRICAL PANEL
	DISCONNECT SWITCH
TV	TELEVISION OUTLET
T	TELEPHONE/DATA OUTLET
T	TELEPHONE OUTLET
D	DATA OUTLET
CL	CEILING MOUNTED DATA OUTLET
A	30A/240V NON FUSED DISCONNECT SWITCH
B	60A/240V NON FUSED DISCONNECT SWITCH
C	100A/240V NON FUSED DISCONNECT SWITCH

ABBREVIATIONS:

ABOVE FINISH FLOOR= A.F.F.	BELOW COUNTER= BC
COUNTER TOP LEVEL= C	PUSH BUTTON= PB
GROUND FAULT INTERRUPTER= GFCI	UNDER CABINET= UC
VERIFY PRIOR TO INSTALL= VH	VAPOR PROOF= VP
WEATHER PROOF= WP	ELECTRICAL CONTRACTOR=E.C.
EXHAUST FAN = EF	ROOF TOP UNIT-RTU
WATER HEATER= WH	RECIRCULATION PUMP=RCP
AUTHORITY HAVING JURISDICTION= A.H.J.	BATHROOM EXHAUST FAN= BEF
AIR-COOLED CONDENSING UNIT=ACCU	AIR HANDLING UNIT=AHU

EXISTING CONTIDITONS NOTES

STOP AND READ

THE CONTRACTOR AND SUB-CONTRACTORS **SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED**. THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL, ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.

GENERAL LIGHTING NOTES

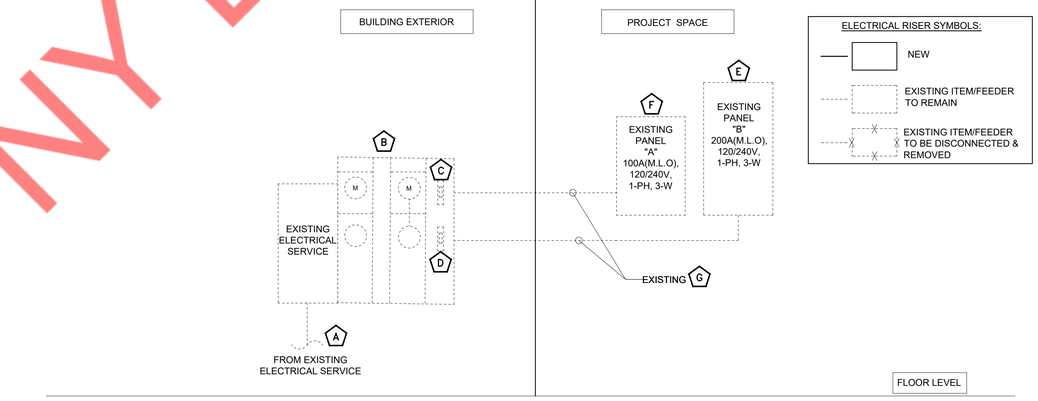
A. UPPER CASE LETTER NEXT TO LIGHT FIXTURE DENOTES FIXTURE TYPE .

B. ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	NUMBER OF FIXTURES	LAMP TYPE	WATTS	MOUNTING
	A	2x4 RECESSED LED LAY-IN	ELITE	24-FPL1-LED-ML	120	2	LED	42 WATTS	RECESSED
	A1	2x2 RECESSED LED LAY-IN	ELITE	22-FPL1-LED-ML	120	2	LED	42 WATTS	RECESSED
	B	6" RECESSED LED DOWN LIGHT	ECO LIGHTING	EL770ICDXA	120	17	LED	24 WATTS	RECESSED
	C	TRACK LIGHTING	CONTECH LIGHTING	CTL905	120	6	LED	7 WATTS	TRACK LIGHTING
	D	12" CAGE DROP PENDENT LIGHT	EGLO	94188A TARBES	120	3	LED	30 WATTS	PENDANT
	F	ROPE PENDANT 1 LIGHT	LIFTAD	221862940	120	3	LED	30 WATTS	PENDANT
	F1	ROPE PENDANT 2 LIGHT	LIFTAD	221862940	120	2	LED	30 WATTS	PENDANT
	H	THE FRESH MONKEE LOGO	TBD	TBD	120	1	LED	100 WATTS	RECESSED
	I	INDUSTRIAL ROPE CHANDELIER	LITFAD	222140603	120	1	LED	50 WATTS	PENDANT
	X1	EXIT SIGN/ EMERGENCY LIGHT COMBO	LITHONIA	LHQM LED HO R0 SD	120	1	LED	4.3 WATTS	WALL/CEILING
	X2	EXIT SIGN/ EMERGENCY LIGHT	TBD	TBD	120	2	LED	3.4 WATTS	WALL/CEILING
	Y1	WALL MOUNTED EMERGENCY LIGHTS	LITHONIA	ELM2 LED HO M6	120	3	LED	2.1 WATTS	WALL
OS	OS	CEILING OCCUPANCY SENSOR	LEVITON	OSC10-UDW	120	-	-	-	CEILING
$T	T	TIMER WALL SWITCH	LEVITON	VPT24-1PZ/EQUIVALENT	120	-	-	-	WALL
$OS	OS	OCCUPANCY WALL SWITCH	LEVITON	ODS10	120	-	-	-	WALL

NOTE:
1. EQUIVALENT LIGHT FIXTURES ARE ACCEPTABLE. FOR DECORATIVE LIGHTS, EQUIVALENT TO BE SUBMITTED TO CORPORATE FOR APPROVAL.
2. E.C SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT LIGHTING CONTROLS PRIOR BIDING. BASE BID ACCORDINGLY.



ELECTRICAL RISER KEYED WORK NOTES:

A. EXISTING 120/240V, 1-PHASE, 3-WIRE ELECTRICAL SERVICE FROM THE UTILITY SHALL REMAIN. E.C. SHALL VERIFY AND COORDINATE EXACT RATING AND LOCATION OF EXISTING INCOMING SERVICE WITH UTILITY COMPANY/OWNER IN FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND. BASE BID ACCORDINGLY.

B. EXISTING 120/240, 1-PHASE, 3-WIRE ELECTRICAL METERS AND DISCONNECT SWITCHES/ BREAKERS FOR THE PROJECT SPACE TO REMAIN. E.C. SHALL COORDINATE WITH BASE BUILDING/LANDLORD/OWNER FOR THE EXACT RATING, EXACT LOCATION AND OPERABLE CONDITION OF EXISTING ELECTRICAL METERS AND DISCONNECT SWITCHES FOR THE PROJECT SPACE IN FIELD. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.

C. EXISTING 100A, 120/240V, 1-PHASE, 3-WIRE DISCONNECT SWITCH/ BREAKER SHALL REMAIN. E.C SHALL VERIFY THE EXACT RATING SIZE, OPERABLE CONDITION AND CONNECTION OF THE EXISTING DISCONNECT SWITCH/ BREAKER IN THE FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND PRIOR TO THE BID.

D. EXISTING 200A, 120/240V, 1-PHASE, 3-WIRE DISCONNECT SWITCH/ BREAKER SHALL REMAIN. E.C SHALL VERIFY THE EXACT RATING SIZE, OPERABLE CONDITION AND CONNECTION OF THE EXISTING DISCONNECT SWITCH/ BREAKER IN THE FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND PRIOR TO THE BID.

E. EXISTING 200A(M.L.O), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "MAIN-PANEL" DENOTED BY "B" SHALL REMAIN. E.C SHALL VERIFY THE EXACT RATING SIZE, OPERABLE CONDITION, LOCATION AND CONNECTION OF THE EXISTING ELECTRICAL PANEL "MAIN PANEL" IN THE FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND PRIOR TO THE BID.

F. EXISTING 100A(M.L.O), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "A/C PANEL" DENOTED BY "A" SHALL REMAIN. E.C SHALL VERIFY THE EXACT RATING SIZE, OPERABLE CONDITION, LOCATION AND CONNECTION OF THE EXISTING ELECTRICAL PANEL "A/C PANEL"IN THE FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND PRIOR TO THE BID.

G. EXISTING INCOMING FEEDERS TO REMAIN. E.C. TO VERIFY OPERABLE CONDITION OF FEEDER'S IN FIELD AND PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

ELECTRICAL RISER GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY, LANDLORD/BASE BUILDING AND AHJ PRIOR TO COMMENCING ANY WORK.
2. E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
3. ABOVE RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. E.C. SHALL VERIFY EXACT POWER DISTRIBUTION IN FIELD AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.
4. E.C. TO VERIFY OPERABLE CONDITIONS OF EXISTING DEVICES IN FIELD. REPLACE/RECTIFY IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

ELECTRICAL RISER | SCALE 1/4" = 1' -0" | 1

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ELECTRICAL PLAN NOTES AND RISER DIAGRAM

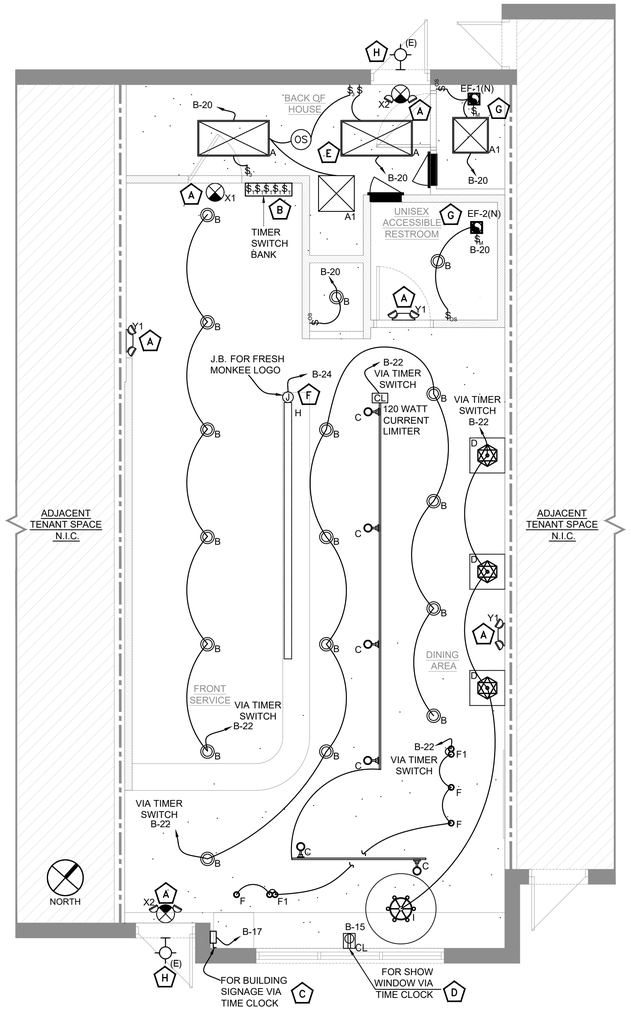
E-1

LIGHTING PLAN GENERAL NOTES:

1. CONTRACTOR ADVISED TO UPDATE THE EMERGENCY LIGHT FIXTURES LOCATIONS/QUANTITY PER SITE REQUIREMENT UP ON FINAL INSPECTION OR PER LOCAL AHJ REQUIREMENT.
2. PROVIDE MANUAL OVERRIDE SWITCH AS PER IECC C405.2.2.1
3. (E) IN THE PLAN INDICATES EXISTING TO REMAIN.

LIGHTING PLAN KEYED NOTES:

- (A) CONNECT ALL EMERGENCY EGRESS LIGHTING FIXTURES TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
- (B) COORDINATE EXACT LOCATION OF TIMER SWITCH BANK WITH OWNER/ARCHITECT.
- (C) EXTERIOR SIGNAGE. E.C SHALL COORDINATE EXACT POWER REQUIREMENT, EXACT LOCATION & MOUNTING DETAILS WITH OWNER & SIGN VENDOR.
- (D) PROVIDE SHOW WINDOW RECEPTACLE AS PER N.E.C. 210.62. VERIFY EXACT LOCATION WITH ARCHITECT.
- (E) LIGHTING NEAR ELECTRICAL PANELS SHALL NOT BE CONTROLLED BY ANY AUTOMATIC MEANS ONLY AND SHALL BE COMPILED AS PER NEC 110.26(D).
- (F) ELECTRICAL CONTRACTOR TO COORDINATE ALL FINAL FRESH MONKEE ILLUMINATED SIGNAGE LOCATIONS IN THE FIELD BASED ON PERMIT APPROVED SIGN DRAWING AND SHOP DRAWING SPECS AS APPROVED BY OWNER/BASE BUILDING/LANDLORD AND TENANT. DOCUMENTS TO BE PROVIDED BY FRESH MONKEE SIGNAGE CONTRACTOR.
- (G) EXHAUST FAN EF-1(N) & EF-2(N) SHALL BE INTERLOCKED WITH ROOM LIGHT. E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR IN FIELD. PRIOR TO ROUGH IN.
- (H) EXISTING EXTERIOR LIGHTING, IT'S CONTROL AND ASSOCIATED CIRCUIT IN BASE BUILDING/LANDLORD PANEL SHALL REMAIN AS IS. E.C. SHALL VERIFY OPERABLE CONDITION OF EXISTING EXTERIOR LIGHT, IT'S CONTROL AND CIRCUIT INCLUDING BREAKER/WIRE/CONDUIT IN FIELD, REPLACE WITH NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.



ELECTRICAL LIGHTING PLAN | SCALE 1/4" = 1'-0" | 1

NY ENGINEERS

PROJECT

THE FRESH MONKEE

REVISIONS DATES:

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CHECKED BY: NYE

ELECTRICAL LIGHTING PLAN

E-2

POWER PLAN GENERAL NOTES:

1. E.C. SHALL COORDINATE WITH THE EQUIPMENT VENDOR FOR EXACT RECEPTACLE REQUIREMENT AND WITH ARCHITECT/OWNER FOR EXACT LOCATION AND MOUNTING HEIGHT OF THE RECEPTACLES IN THE FIELD.
2. E.C SHALL FIELD VERIFY THE EXACT RATING, LOCATION, SIZE AND OPERABLE CONDITION OF THE ALL EXISTING ELECTRICAL EQUIPMENTS BEFORE COMMENCING ANY WORK. INFORM ENGINEER FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.

POWER PLAN KEYED NOTES:

(A) EXISTING 200A(M.L.O), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "MAIN-PANEL" DENOTED BY "B" SHALL REMAIN. E.C SHALL VERIFY THE EXACT RATING SIZE, OPERABLE CONDITION, LOCATION AND CONNECTION OF THE EXISTING ELECTRICAL PANEL "MAIN PANEL" IN THE FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND PRIOR TO THE BID.

(B) EXISTING 100A(M.L.O), 120/240V, 1-PHASE, 3-WIRE ELECTRICAL PANEL "A/C PANEL" DENOTED BY "A" SHALL REMAIN. E.C SHALL VERIFY THE EXACT RATING SIZE, OPERABLE CONDITION, LOCATION AND CONNECTION OF THE EXISTING ELECTRICAL PANEL "A/C PANEL"IN THE FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND PRIOR TO THE BID.

(C) E.C SHALL VERIFY THE INSTALLATION OF ELECTRICAL EQUIPMENTS ARE IN COMPLIANCE WITH N.E.C. ARTICLE 110.26(A) AND (B). E.C. SHALL FIELD VERIFY THAT THE PANELS ARE UNOBSTRUCTED AND THE AREA WHERE THE PANELS ARE PLACED SHALL NOT BE USED AS A STORAGE SPACE.

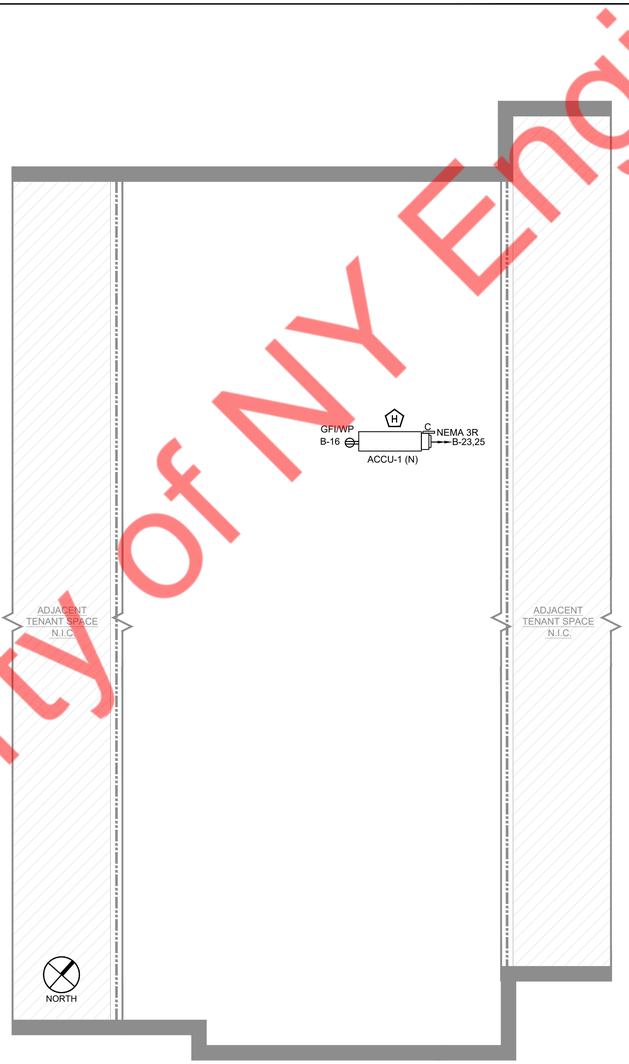
(D) PROVIDE (2) CAT 6 HOME RUN TO EACH POS AND ONE (1) QUAD 20 AMPS RECEPTACLE FOR POS. COORDINATE WITH OWNER PRIOR TO ROUGH-IN FOR EXACT HEIGHT.

(E) E.C SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT LOCATION, MOUNTING HEIGHT & PROVISION OF SUPPORT/STUB-INS IN THE LOW HEIGHT WALL FOR PROVIDING & MOUNTING RECEPTACLES/OUTLETS FOR THE EQUIPMENTS. E.C SHALL COORDINATE WITH THE EQUIPMENT VENDOR FOR EXACT POWER REQUIREMENT. BASE BID ACCORDINGLY.

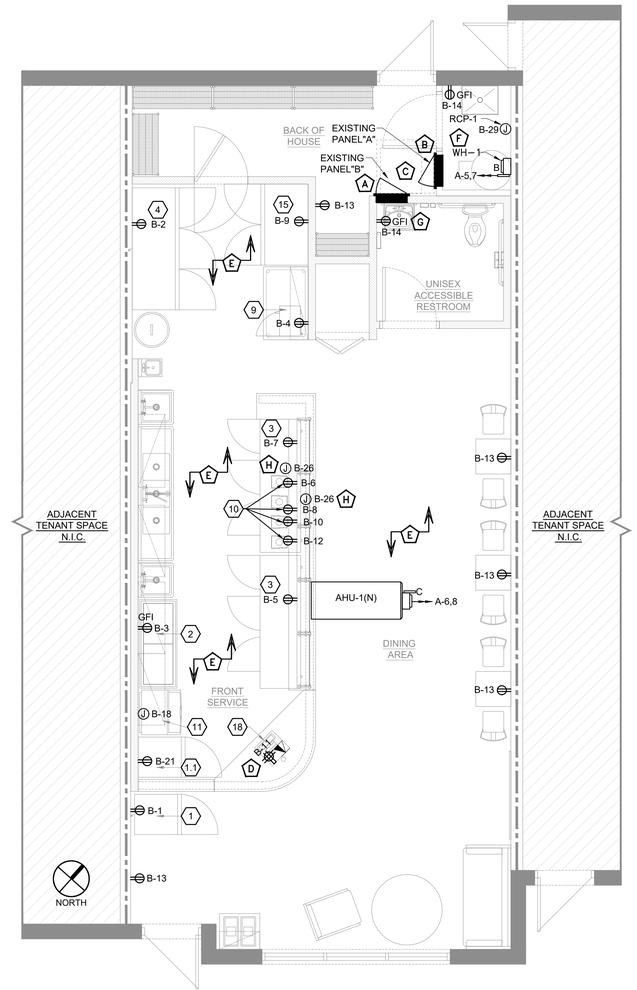
(F) ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF "WH-1" AND "RCP-1" IN THE FIELD. PROVIDE CIRCUIT AND CONTROL AS REQUIRED.

(G) E.C SHALL COORDINATE EXACT POWER REQUIREMENT OF AUTOMATIC FAUCET IN FIELD WITH EQUIPMENT MANUFACTURER AND MAKE POWER PROVISION ACCORDINGLY. E.C SHALL PROCURE ALL THE NECESSARY ACCESSORIES NEEDED FOR THE PROPER FUNCTIONING OF AUTOMATIC FAUCET.

(H) E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF ALL MECHANICAL UNITS IN FIELD. PROVIDE CIRCUIT AND CONTROLS AS REQUIRED.



ELECTRICAL ROOF POWER PLAN | SCALE 1/4" = 1'-0" | 2



ELECTRICAL FLOOR PLAN | SCALE 1/4" = 1'-0" | 1

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ELECTRICAL FLOOR & ROOF POWER PLANS

E-3

A PANEL: A(E) — **MOUNTING:** RECESSED; **LOCATION :** BACK OF HOUSE

120/240 VOLTS | **1** PHASE | **3** WIRE

MLO | **100A** | **BUS:** **EXISTING** | **FED FROM:** EXISTING METER/DISCONNECT

NOTE: R:RECEPTACLE, L:LIGHTING, O-OTHER, M-MOTOR, E-QUIPMENTS, H-HVAC

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	PER PHASE (KVA) B	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	25-2P	SPARE			2#8, #10G, 3/4"C	0.00		2#4, #8G, 1"C			SPARE	60-2P	2
3							0.00						4
5	50-2P*	WATER HEATER	O	4.50		11.42			6.92	H	AHU-1(N)	80-2P*	6
7			O	4.50			11.42		6.92	H			8
						11.42	**11.42**						

A PANEL: B(E) — **MOUNTING:** RECESSED; **LOCATION :** BACK OF HOUSE

120/240 VOLTS | **1** PHASE | **3** WIRE

MLO | **200A** | **BUS:** **EXISTING** | **FED FROM:** EXISTING ELEC METER/DISCONNECT

NOTE: R:RECEPTACLE, L:LIGHTING, O-OTHER, M-MOTOR, E-QUIPMENTS, H-HVAC

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	PER PHASE (KVA) B	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	REFRIGERATED MERCHANDISER_#1	E	0.24	2#12, #12G, 3/4"C	0.72		2#12, #12G, 3/4"C	0.48	E	REFRG 3 DOOR MERCHANDISER_#4	20	2
3	20**	ICE CREAM NOVELTY MERCHANDISER_#2	E	0.17	2#12, #12G, 3/4"C		1.17	2#12, #12G, 3/4"C	1.00	E	MICROWAVE_#9	20	4
5	20	BACK BAR CABINET REFRIGERATED_#3	E	0.32	2#12, #12G, 3/4"C	2.12		2#12, #12G, 3/4"C	1.80	E	BLENDER_#10	20	6
7	20	BACK BAR CABINET REFRIGERATED_#3	E	0.32	2#12, #12G, 3/4"C		2.12	2#12, #12G, 3/4"C	1.80	E	BLENDER_#10	20	8
9	20	REACH IN FREEZER_#15	E	0.99	2#12, #12G, 3/4"C	2.79		2#12, #12G, 3/4"C	1.80	E	BLENDER_#10	20	10
11	20	POS_#18	R	0.36	2#12, #12G, 3/4"C		2.16	2#12, #12G, 3/4"C	1.80	E	BLENDER_#10	20	12
13	20	GENERAL PURPOSE RECEPTACLE	R	0.90	2#12, #12G, 3/4"C	1.08		2#12, #12G, 3/4"C	0.18	R	RESTROOM RECEPTACLE	20	14
15	20	SHOW WINDOW RECEPTACLE	R	1.00	2#12, #12G, 3/4"C		1.18	2#12, #12G, 3/4"C	0.18	R	ROOF RECEPTACLE	20	16
17	20	EXTERIOR SIGNAGE	L	1.20	2#12, #12G, 3/4"C	2.29		2#12, #12G, 3/4"C	1.09	E	ICE MAKER WITH BIN_#11	20	18
19	20*	RCP-1	M	0.09	2#12, #12G, 3/4"C		0.27	2#12, #12G, 3/4"C	0.19	L	LIGHTING-BOH,RESTROOMS &EF-1(N), EF-2(N)	20*	20
21	20*	FREEZER_#1.1	E	0.46	2#12, #12G, 3/4"C	1.20		2#12, #12G, 3/4"C	0.74	L	LIGHTING-FRONT SERVICE,DINING AREA	20*	22
23	80-2P*	ACCU-1(N)	H	5.18	2#4, #8G, 1"C		5.68	2#12, #12G, 3/4"C	0.50	L	LIGHTING-FRESH MONKEE SIGN	20*	24
25			H	5.18		5.38		2#12, #12G, 3/4"C	0.20	M	MOTORISED & FIRE SMOKE DAMPER	20*	26
27	20*	SPARE					0.00				SPARE	20*	28
29	20*	SPARE				0.00					SPARE	20*	30
						15.59	**12.58**						

PANEL SCHEDULE GENERAL NOTES:

1. ALL THE CIRCUITING SHOWN FOR THE EXISTING PANELS ARE FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING & BREAKER SIZE OF THE EXISTING DEVICES IN FIELD AND INFORM ENGINEER FOR DISCREPANCIES.
2. ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.
3. E.C SHALL VERIFY THE EXISTING EQUIPMENT LOAD & RATING IN FIELD AND ACCORDINGLY CONSIDER THE ELECTRICAL LOAD IN PANEL SCHEDULE
4. E.S SHALL PROVIDE NEW BREAKER IN PLACE OF EXISTING CIRCUIT BREAKER WHEREVER NECESSARY TO BE IN LINE WITH THE PANEL SCHEDULE. CHECK COMPATIBILITY OF NEWLY ADDED BREAKER WITH THE EXISTING PANEL BEFORE PURCHASING. BASE BID ACCORDINGLY.
5. * INDICATES NEW BREAKER.
6. ** INDICATES NEW GFI BREAKER.
7. ALL THE BREAKER ARE EXISTING U.N.O.

PANEL SCHEDULE KEY NOTES:

A E.C SHALL COORDINATE WITH PLUMBING CONTRACTOR/EQUIPMENT VENDOR AND VERIFY THE EXACT RATED CIRCUIT BREAKER REQUIRED FOR EXISTING WATER HEATER, PROVIDE NEW BREAKER IF REQUIRED AS SHOWN IN PANEL SCHEDULE. BASE BID ACCORDINGLY.

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PANEL SCHEDULES
EQUIPMENT LIST

E-4