

EXISTING CONDITION NOTES

STOP AND READ
THE CONTRACTOR AND SUB CONTRACTOR SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED. WHEN DEMOLITION IS REQUIRED, THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTAL 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 REMAINED 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.

SCOPE OF WORK

REUSE ONE EXISTING 10.0 TON ELECTRIC HEAT ROOF TOP UNIT . REUSE THE EXISTING DUCTWORK, DIFFUSERS/ GRILLES AS MUCH AS POSSIBLE AND PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES AS SHOWN IN THE PLAN.

PROVIDE TWO NEW RESTROOM EXHAUST FANS.

COORDINATE WITH GC ANY ADDITIONAL REFRIGERATION WORK REQUIRED AND WORK REQUIRED ON KITCHEN EXHAUST SYSTEMS AND WITH GC AND PLUMBING CONTRACTOR PROVIDING CONDENSATE LINES FOR MECHANICAL EQUIPMENT AND GAS FLUE FOR WATER HEATERS.

FLORIDA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE 2023 FLORIDA BUILDING CODE 8TH EDITION, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

1. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.

2. VENTILATION FOR ALL AREA SHALL COMPLY WITH 2023 FLORIDA MECHANICAL CODE 8TH EDITION, CHAPTER 4.

3. 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.

4. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2023 FLORIDA MECHANICAL CODE 8TH EDITION:
A. VENTILATION SYSTEM BALANCING 2023 FLORIDA MECHANICAL CODE 8TH EDITION - 403.3

5. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
A. STANDARDS OF HEATING 2023 FLORIDA MECHANICAL CODE 8TH EDITION - 309.1
B. DUCT CONSTRUCTION AND INSTALLATION 2023 FLORIDA MECHANICAL CODE 8TH EDITION - 603
C. AIR INTAKES, EXHAUSTS AND RELIEF 2023 FLORIDA MECHANICAL CODE 8TH EDITION - 401.5
D. AIR FILTERS 2023 FLORIDA MECHANICAL CODE 8TH EDITION - 605
E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS - 2023 FLORIDA MECHANICAL CODE 8TH EDITION - 606
F. GAS AND FIRE EQUIPMENT- 2023 FLORIDA FUEL AND GAS CODE 8TH EDITION

6. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.

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 2023 FLORIDA MECHANICAL CODE 8TH EDITION

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 EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

10. 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 METHOD. CONTRACTOR TO SUBMIT THE AIR BALANCE REPORT TO INSPECTOR OF RESPECTIVE BUILDING DEPARTMENT PRIOR TO FINAL INSPECTION.

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. PAY SPECIAL ATTENTION TO THE RESPONSIBILITY SCHEDULE WORK DESIGNATED ON SCHEDULE SHALL BE CONSIDERED INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.

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. 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 ALL EXPOSED ROUND SHEET METAL DUCTS SHALL BE INTERNALLY INSULATED.

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


K. IF APPLICABLE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR KITCHEN VENTILATION SYSTEM INCLUDING TYPE 1 HOOD AND FOR THE WALK-IN COOLER & FREEZER.


L. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.


M. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE AND PROVIDE COPY TO LL.


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


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


 ROOF MOUNTED EXHAUST FAN OUTLET


 R/A RETURN AIR


 SG SUPPLY GRILLE


 --- ∞ --- CONDENSATE PIPING


 (E) EXISTING


 (N) NEW


 M MOTORIZED DAMPER


 SIDE WALL /DUCT RETURN GRILLE


 EXHAUST FAN WITH LIGHT


 ROOFTOP UNIT


 OPPOSED BLADE DAMPER


 DUCT SMOKE DETECTOR


 PROGRAMMABLE THERMOSTAT


 REMOTE SENSOR


 Ø ROUND DUCT DIAMETER

 CFM CUBIC FEET/ MINUTE

 S/A SUPPLY AIR

 SUPPLY DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS

 RETURN DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS

 PERORATED TYPE SUPPLY DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS

NOTE: THIS PROJECT MAY NOT USE EVERY SYMBOL OR DEVICE APPEARING ON THIS LEGEND.

MECHANICAL PLAN NOTES

A. REUSE ONE EXISTING 10.0 TON ELECTRIC HEAT ROOF TOP UNIT . REUSE THE EXISTING DUCTWORK, DIFFUSERS/ GRILLES AS MUCH AS POSSIBLE AND PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES AS SHOWN IN THE PLANS . PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO ROOFTOP 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 A/C UNIT 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 MINIMUM 26 GAUGE SHEET METAL WITH EXTERNAL DUCT WRAP INSULATION FOR CONCEALED DUCTS AND ALL EXPOSED DUCTS WITH INTERNAL INSULATION. ALL DUCTS TO BE MANUFACTURED AND INSTALLED ACCORDING TO ASHRAE AND SMACNA METAL DUCT CONSTRUCTION STANDARD, LATEST EDITION. ALL MATERIALS WILL CONFORM TO NFPA 90A

D. 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.

E. THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. IF EXISTING THERMOSTAT AND REMOTE SENSOR ARE NOT REUSABLE THEN PROVIDE NEW THERMOSTAT WITH LOCKABLE COVER. COORDINATE LOCATION OF THERMOSTAT. PROVIDE REMOTE SENSOR LOCATED 72" ABOVE FINISHED FLOOR NEAR LOCATION INDICATED. SEAL WALL OPENINGS WITH CAULK. COORDINATE LOCATION ON SITE WITH GENERAL CONTRACTOR AND EQUIPMENT.

F. ALL INDOOR DUCT AND PLENUM INSULATION SCHEDULE:
1. CONCEALED, RECTANGULAR, ROUND AND FLAT-OVAL, SUPPLY-RETURN, OUTDOOR-AND EXHAUST-AIR DUCT AND AIR PLENUM INSULATION:
2. FLEXIBLE ELASTOMERIC, MINERAL-FIBER BLANKET, MINERAL-FIBER BOARD OR POLYOLEFIN WITH MINIMUM INSTALLED THERMAL RESISTANCE AS FOLLOWS:

	SA PLENUM	RA PLENUM
UNCONDITIONED SPACES:	R-4.2	R-4.2
UNVENTED ATTIC ABOVE INSULATED CEILING:	R-6	R-4.2
EXTERIOR OF BUILDING:	R-6	R-4.2

G. 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.

H. ALL EVAPORATOR UNITS SHALL HAVE A FLOAT SWITCH TO CONTROL OVERFLOW THAT WILL AUTOMATICALLY SHUT DOWN THE HVAC SYSTEM. THE DEVICE SHALL BE ATTACHED TO THE SECONDARY DRAIN OUTLET ON THE UNIT.

I. ALL CONDENSATE DRAINS WILL BE PVC FULL DIAMETER OF OUTLET AND WILL TERMINATE IN THE NEAREST APPROVED PLACE OF DISPOSAL.

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

K. TESTING AND BALANCING SHALL BE DONE IN ACCORDANCE WITH 2023 FBC - ENERGY CONSERVATION, 8TH EDITION SECTION C408.2.2. 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.

L. 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.

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

N. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/BARRIERS/SLABS. COORDINATE WITH ARCHITECTURAL DRAWING FOR FIRE RATING OF THE WALLS.

MECHANICAL ABBREVIATIONS

BD	BACK DRAFT DAMPER
CFM	CUBIC FEET OF AIR PER MINUTE
CD	CONDENSATE DRAIN
BEF	BATHROOM EXHAUST FAN
VD	VOLUME DAMPER
RTU	ROOF TOP UNIT
OA	OUTSIDE AIR
KEF	KITCHEN EXHAUST FAN
MUA	MAKE-UP AIR UNIT
EF	EXHAUST FAN

OCCUPANCY CALCULATION PER 2023 FLORIDA MECHANICAL CODE (2021 IMC),TABLE 403.3.1.1

DINING AREA	485 SQ. FT.	@70 PEOPLE/1000SQ.FT.	34 PEOPLE
SERVICE AREA	350 SQ. FT.	@15 PEOPLE/1000SQ.FT.	6 PEOPLE
BACK OF HOUSE	360 SQ. FT.	@20 PEOPLE/1000SQ.FT.	8 PEOPLE
	TOTAL		48 PEOPLE

VENTILATION REQUIREMENTS PER 2023 FLORIDA MECHANICAL CODE (2021 IMC),TABLE 403.3.1.1

OUTSIDE AIR CALCULATIONS			
DINING AREA	485 SQ. FT. X 0.18 CFM/SQ. FT. =	88 CFM	
	34 PEOPLE X 7.5 CFM/PEOPLE. =	255 CFM	
SERVICE AREA	350 SQ. FT. X 0.12 CFM/SQ. FT. =	42 CFM	
	6 PEOPLE X 7.5 CFM/PEOPLE. =	45 CFM	
HALLWAY	75 SQ. FT. X 0.06 CFM/SQ. FT. =	5 CFM	
BACK OF HOUSE	360 SQ. FT. X 0.12 CFM/SQ. FT. =	45 CFM	
	8 PEOPLE X 7.5 CFM/PEOPLE. =	60 CFM	
OUTSIDE AIR REQUIRED		540 CFM	
OUTSIDE AIR PROVIDED		560 CFM	
EXHAUST AIR CALCULATIONS			
BACK OF HOUSE	360 SQ. FT. X 0.7 CFM/SQ. FT. =	255 CFM	
RESTROOMS	70 CFM PER NO. OF FIXTURE X FIXTURE (#2) =	140 CFM	
EXHAUST AIR REQUIRED		395 CFM	
AIR BALANCE			
RTU-1(E) -O/A PROVIDED		+560 CFM	
MUA-1(N)-O/A PROVIDED		+1500 CFM	
KEF-1(N)		-1762 CFM	
BEF-1(N)		-70 CFM	
BEF-2(N)		-70 CFM	
BUILDING PRESSURE		+158 CFM	

ROOF TOP UNIT SCHEDULE

TAG	RTU-1(E)
QUANTITY	1
UNIT	ELECTRIC HEAT
MANUFACUTURER	TRANE (V.I.F.)
MODEL	THC120F3E0AH00 (V.I.F)
STATUS	EXISTING
MOUNTING	ROOF
NOMINAL CAPACITY	10.0 TON
TOTAL COOLING CAPACITY	S.A.E.
SENSIBLE CAPACITY	S.A.E.
EER/SEER	S.A.E.
ELECTRIC HEAT(KW)	13.5 (V.I.F.)
SUPPLY CFM	4000
OUTDOOR AIR CFM	560
V/Hz/P	208/60/3 (V.I.F.)
MCA (A)	58 (V.I.F.)
MOCP (A)	80 (V.I.F.)
WEIGHT (LBS)	S.A.E.

NOTES FOR EXISTING RTU.

1. EXISTING RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE REUSED.

2. CONTRACTOR TO FIELD VERIFY IF RTU IS WORKING AT ITS 100% RATED CAPACITIES / LOADS. INFORM TO DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE PRIOR TO CONSTRUCTION.

3. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF UNIT ON SITE.

4. IF REQUIRED, PROVIDE NEW T-STAT & H-STAT AND TEMPERATURE & HUMIDITY SENSOR COMPATIBLE WITH EXISTING RTU. CO-ORDINATE FINAL LOCATION OF TEMPERATURE SENSOR & HUMIDITY SENSOR WITH ARCHITECT / OWNER.

5. CONTRACTOR TO BALANCE OUTSIDE AIR & RETURN AIR DAMPERS ON EXISTING RTU TO MATCH VALUES MENTIONED IN ABOVE TABLE.

6. REPLACE FILTERS, IF REQUIRED.

7. CONTRACTOR TO ADJUST FRESH AIR DAMPER TO PROVIDE OUTSIDE AIR AS MENTIONED IN VENTILATION REQUIREMENTS TABLE.

8. S.A.E. - SAME AS EXISTING.

9. V.I.F. - VERIFY IN FIELD.

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

DIFFUSER SCHEDULE

MANUFACTURER	TITUS	TITUS	TITUS	TITUS
DESIGNATION	A	B	R	E
USE	SUPPLY	SUPPLY	RETURN	SUPPLY/ RETURN
MODEL	TDC-AA	PAS	56FL	S.A.E
MOUNTING	SAT CEILING	SAT CEILING	HARD CEILING	S.A.E
LOCATION	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN
FACE SIZE	24" X 24"	24" X 24"	24"X24"	S.A.E
NECK SIZE	REFER TABLE-A	REFER TABLE-A	-	S.A.E
FRAME TYPE	LAYIN	LAYIN	LAY IN/FLANGED	S.A.E
ACCESSORIES	VOLUME DAMPER	VOLUME DAMPER	VOLUME DAMPER	S.A.E

NOTES:

1. MAX. NC LEVEL 30 OR LESS.

2. PROVIDE SQUARE TO ROUND NECK ADAPTOR.

3. CO-ORDINATE WITH ARCHITECT FOR FINAL MOUNTING, FRAME TYPE,PAINT AND FINISH.

4. PROVIDE 4-WAY AIR THROW PATTERN UNLESS NOTED OR INDICATED.

5. PROVIDE INSULATED BACKS ON ALL DIFFUSERS.

6. CONTRACTOR TO FIELD VERIFY AND CONFIRM THE CONDITION OF EXISTING DIFFUSER.

7. PROVIDE VOLUME DAMPER IF NOT FOUND OR FOUND DAMAGED.

8. S.A.E. - SAME AS EXISTING.

MAKEUP AIR UNIT SCHEDULE

	MUA-1(N)
TAG	
UNIT	GAS HEAT
MANUFACTURER	SUNAIR
MODEL	SA-A1-D.250-15D
STATUS	NEW
MOUNTING	ROOF
HEATING (IN)	100.5 MBH
HEATING (OUT)	92.5 MBH
THERMAL EFF(%)	92%
SUPPLY AIR (CFM)	1500
ESP	0.5 IN. WC.
HP	1.5
VOLTAGE	208/3/60
FLA (A)	4.5
MCA (A)	5.7
MOCP (A)	15.0
WEIGHT (lbs)	595

INCLUDED SYSTEM OPTIONS FOR MUA-1(N)

1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.

2. INTAKE HOOD WITH EZ FILTERS.

3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.

4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.

5. GAS PRESSURE GAUGE, 0.38" 2.5" DIAMETER, 1/4" THREAD SIZE.

6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.

7. SHIP LOOSE GAS STRAINER. TO BE INSTALLED UPSTREAM OF UNIT CONNECTION. 3/4" CONNECTION.

8. CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 3G CELLULAR SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR.

9. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.

10. FREEZESTAT.

11. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.

12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).

13. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

14. 2 YEAR PARTS WARRANTY.

EXHAUST FAN SCHEDULE

DESIGNATION	BEF-1(N)&2(N)	KEF-1(N)
STATUS	NEW	NEW
QUANTITY	2	1
MANUFACTURER	GREENHECK	SUNAIR
MODEL	SP-A90	SA-DU85HFA
CFM & ESP	70@ 0.3" IN. WC ESP	1762@ 1" IN. WC ESP
HP	-	0.75
FLA(AMPS)	0.17	8.9
ACCESSORIES	BD	BD
WEIGHT (LBS)	12	131
VOLT/PH/Hz	115/1/60	115/1/60

NOTES FOR BEF-1(N), BEF-2(N)

1. BEF-1(N) & BEF-2(N) SHALL BE INTERLOCKED WITH RTU-1(E).

2. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

3. PROVIDE BACK DRAFT DAMPER.

OPTIONS FOR KEF-1(N):

1. PROVIDE GREASE BOX

2. 2 YEARS PARTS WARRANTY

3. KEF-1 (N) SHALL NE INTERLOCK WITH MUA-1 (N)

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PROJECT

MELTWICH

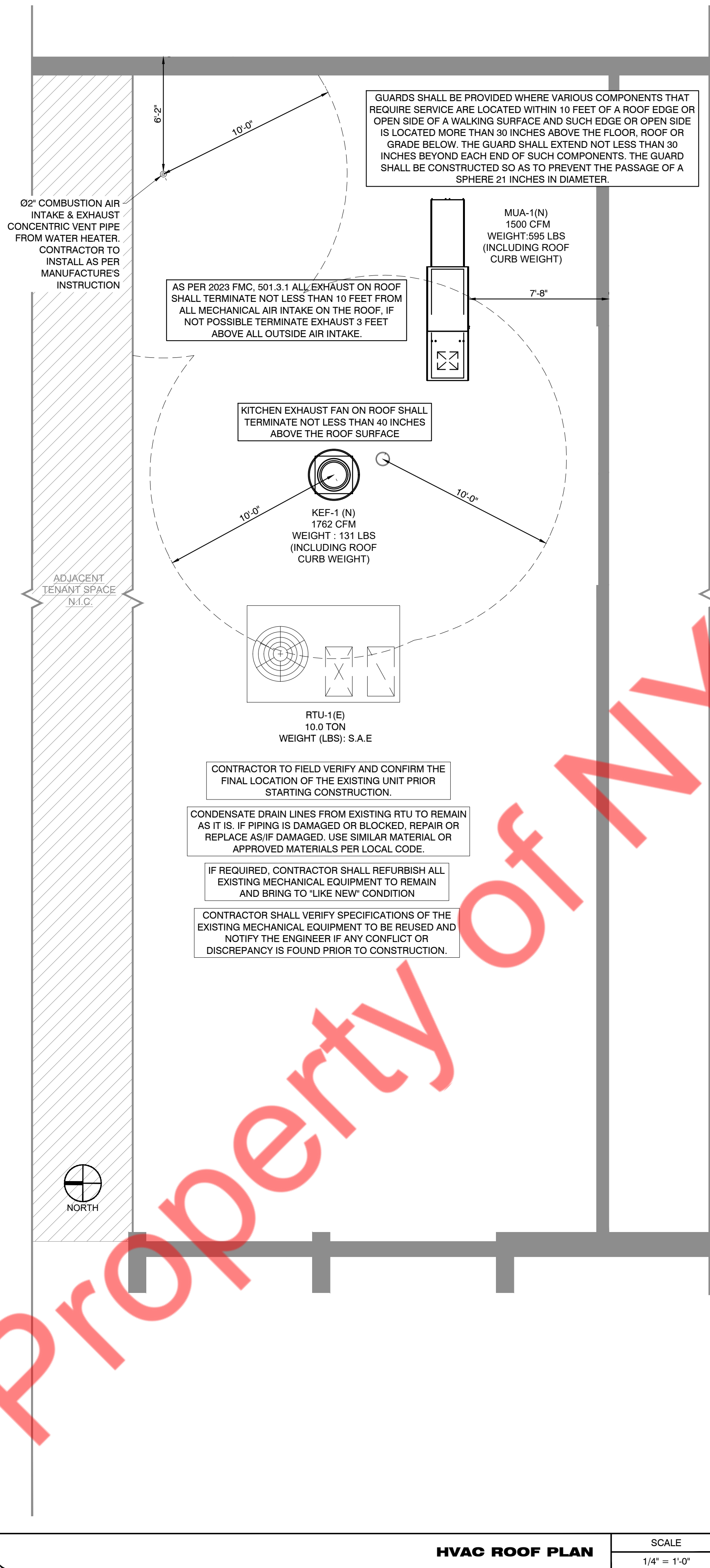
REVISIONS DATES:

ISSUE DATE: 07.09.24
PROJECT #:
DRAWN BY: NYE
CHECKED BY: NYE

HVAC NOTES & SCHEDULES

M-1

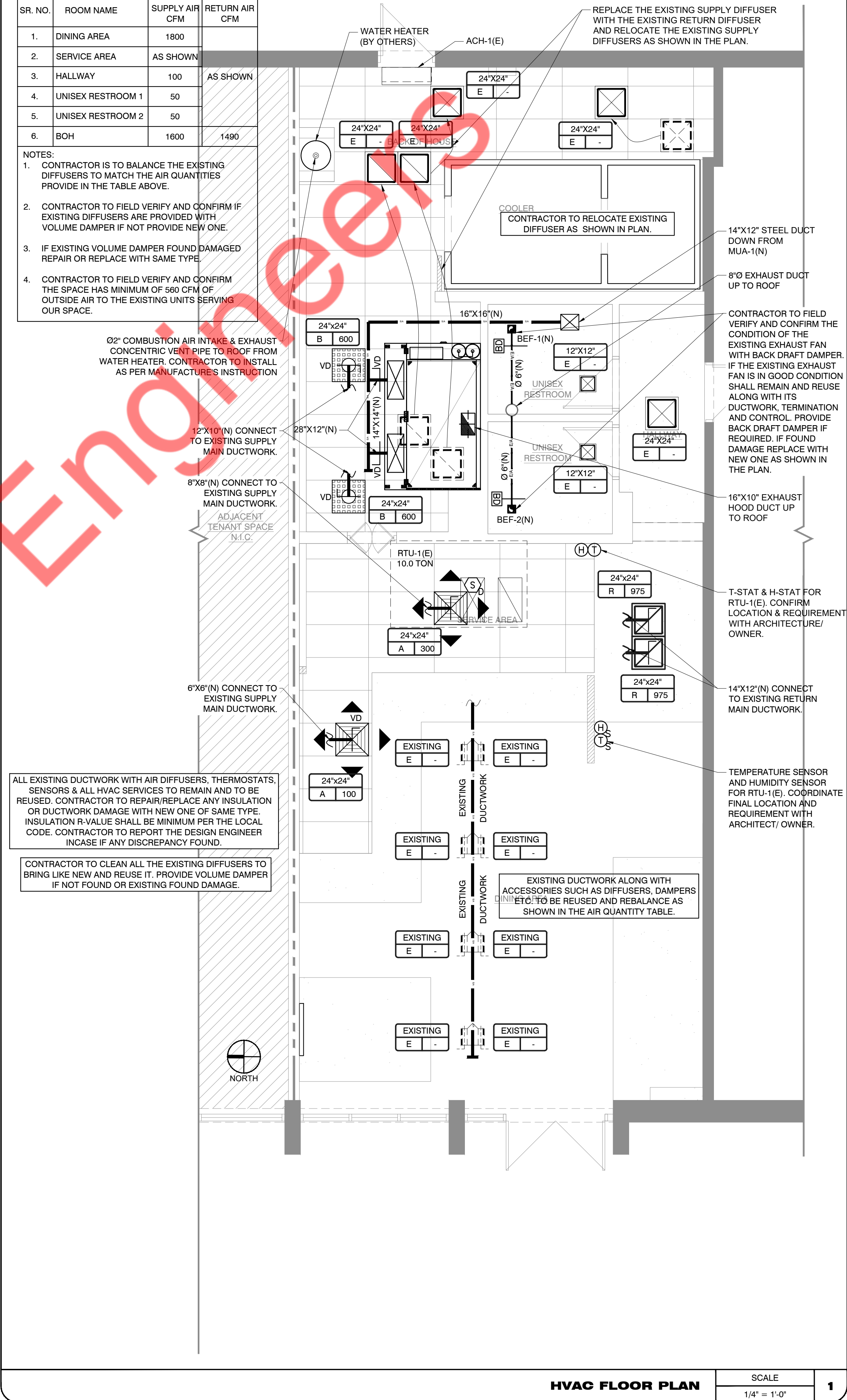
1. PROVIDE CLEAN OUT AT ALL ELBOWS AND BOTTOM OF RISER AND EVERY 20 FEET HORIZONTAL KITCHEN EXHAUST DUCT AND SHALL COMPLY ALL THE REQUIREMENTS PER 2023 FLORIDA MECHANICAL CODE 506.3.8 & 506.3.9.
2. COMMERCIAL KITCHEN GREASE DUCT SHALL BE DESIGNED FOR THE TYPE OF COOKING APPLIANCE AND HOOD SERVED. COMMERCIAL KITCHEN GREASE DUCTS SHALL BE OF 16 GAUGE MINIMUM STEEL OR FACTORY FABRICATED GREASE DUCT WITH LISTED AND LABELED IN ACCORDANCE WITH UL 1978.
3. JOINTS, SEAMS AND PENETRATIONS OF GREASE DUCTS SHALL BE MADE WITH A CONTINUOUS LIQUID TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE IF THE DUCT SYSTEMS.
4. DUCT TO EXHAUST FAN CONNECTIONS SHALL BE FLANGED, GASKETED AND BOLTED TO THE INLET AND OUTLET OF THE FAN FOR INLINE FANS. APPROVED FLEXIBLE CONNECTIONS MAY BE PROVIDED.
5. A VIBRATION ISOLATION CONNECTOR FOR CONNECTING A DUCT TO A FAN SHALL CONSIST OF NON-COMBUSTIBLE PACKING IN A METAL SLEEVE JOINT OF APPROVED DESIGN OR SHALL BE A COATED-FABRIC FLEXIBLE DUCT CONNECTOR LISTED AND LABELED FOR THE APPLICATION. VIBRATION ISOLATION CONNECTORS SHALL BE INSTALLED ONLY AT THE CONNECTION OF A DUCT TO A FAN INLET OR OUTLET.
6. PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED AS PER FMC 2023 SECTION 506.3.2.5. DUCT SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHIFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM VISUALLY INSPECTED ON ALL SIDE. THE DUCT INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY EQUIPMENT AND PERFORMING THE GREASE DUCT LEAKAGE TEST. THE DUCT LEAKAGE TEST SHALL BE PERFORMED FOR ALL THE DUCT SYSTEMS, INCLUDING THE DUCT TO JOINT CONNECTION. THE DUCTWORK SHALL BE PERMITTED TO BE TESTED IN SECTIONS PROVIDED THAT EVERY JOINT IS TESTED (IF TEST IS FAILED, CONTRACTOR TO PROVIDE NEW KITCHEN EXHAUST DUCT).
7. PROVIDE SMOKE TEST TO PROOF TIGHTNESS OF THE GREASE DUCT.
8. GREASE DUCT BRACING AND SUPPORTS SHALL BE OF NON-COMBUSTIBLE MATERIAL SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY AND SEISMIC LOADS WITHIN THE STREET LIMITATIONS OF THE 2023 FLORIDA BUILDING CODE. BOLTS, SCREWS, RIVETS AND OTHER MECHANICAL FASTENERS SHALL NOT PENETRATE DUCT WALLS.
9. A RESIDUE TRAP SHALL BE PROVIDED AT THE BASE OF EACH VERTICAL RISER WITH PROVISION FOR CLEANOUT IN ACCORDANCE WITH NFPA 96.
10. CLEANOUT OPENINGS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION, WITHIN 3 FEET OF THE EXHAUST FAN.
11. CLEANOUT OPENINGS SHALL BE EQUIPPED WITH TIGHT-FITTING DOORS CONSTRUCTED OF STEEL HAVING A THICKNESS NOT LESS THAN THAT REQUIRED FOR THE DUCT. DOORS SHALL BE EQUIPPED WITH A SUBSTANTIAL METHOD OF LATCHING, SUFFICIENT TO HOLD THE DOOR TIGHTLY CLOSED. DOOR ASSEMBLIES SHALL HAVE A GASKET OR SEALANT THAT IS NONCOMBUSTIBLE AND LIQUID TIGHT AND SHALL NOT HAVE FASTENERS THAT PENETRATED THE DUCT
12. A GREASE DUCT SERVING THE TYPE-1 HOOD THAT PENETRATED A CEILING, WALL OR FLOOR SHALL BE ENCLOSED FROM THE FIRE POINT OF PENETRATION TO THE OUTLET TERMINAL. DUCT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT OF THE FIRE-RESISTANCE RATED ASSEMBLY PENETRATED BUT NEED NOT EXCEED 2 HOURS.
13. PROVIDE MINIMUM 2HR INSULATION COVERING OF 2 INCHES AND SUCH MATERIAL SHALL BE IN ACCORDANCE WITH ASTM E2336. FIELD APPLIED GREASE DUCT ENCLOSURE SHALL COMPLY ALL REQUIREMENTS PER 2023 FMC SECTION 506.3.11.2.



SCALE
1/4" = 1'-0"

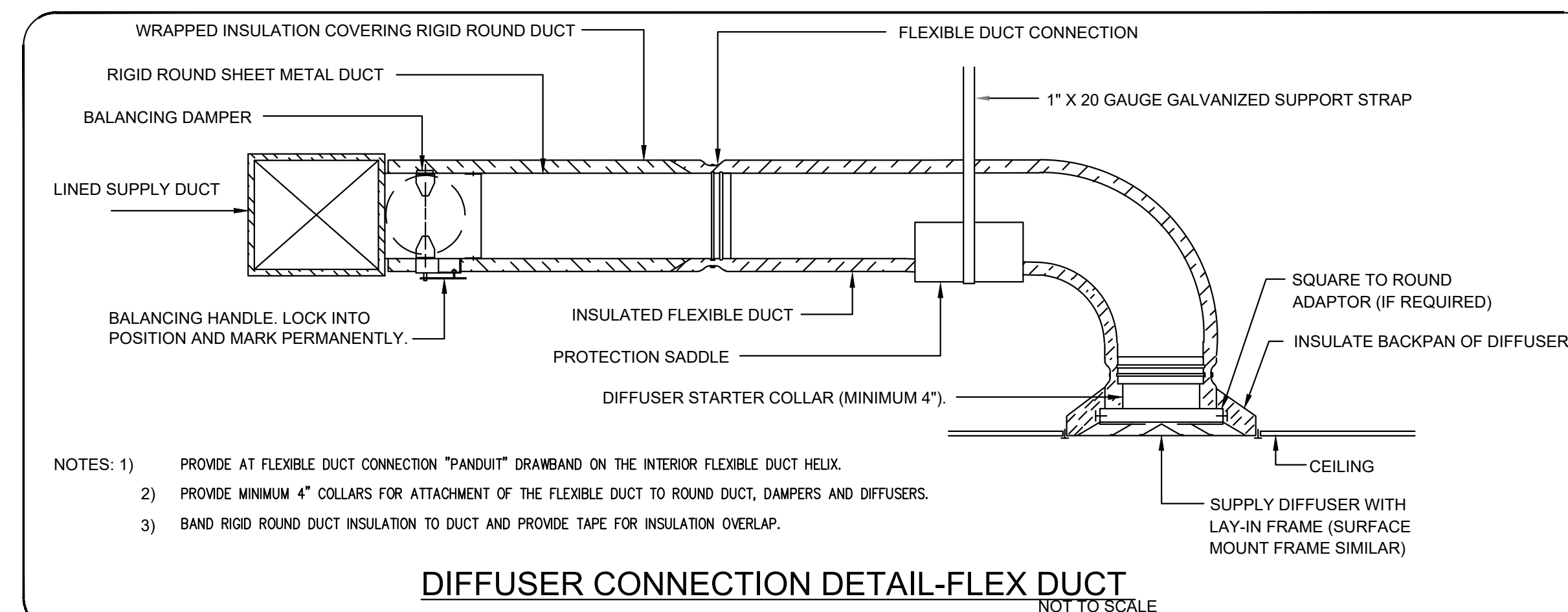
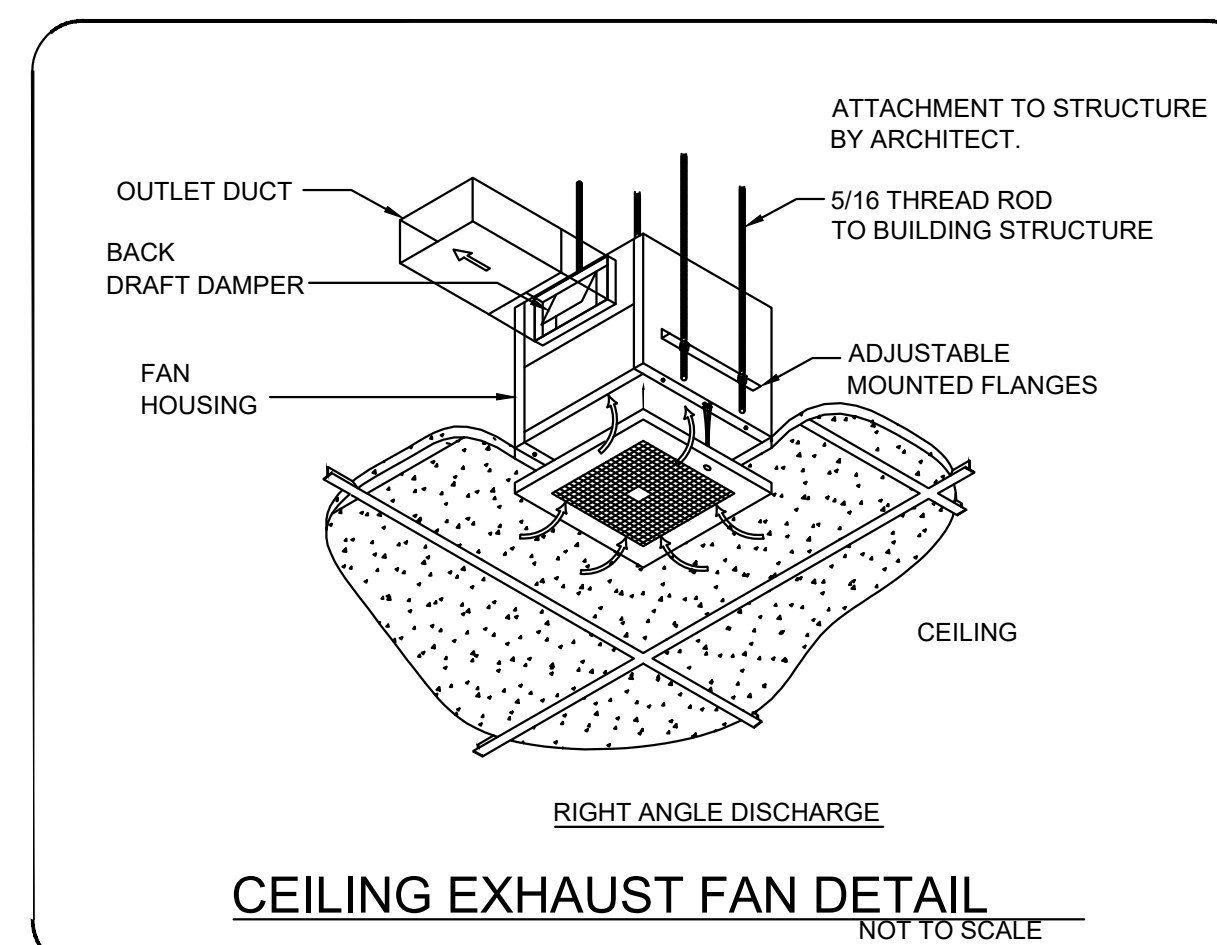
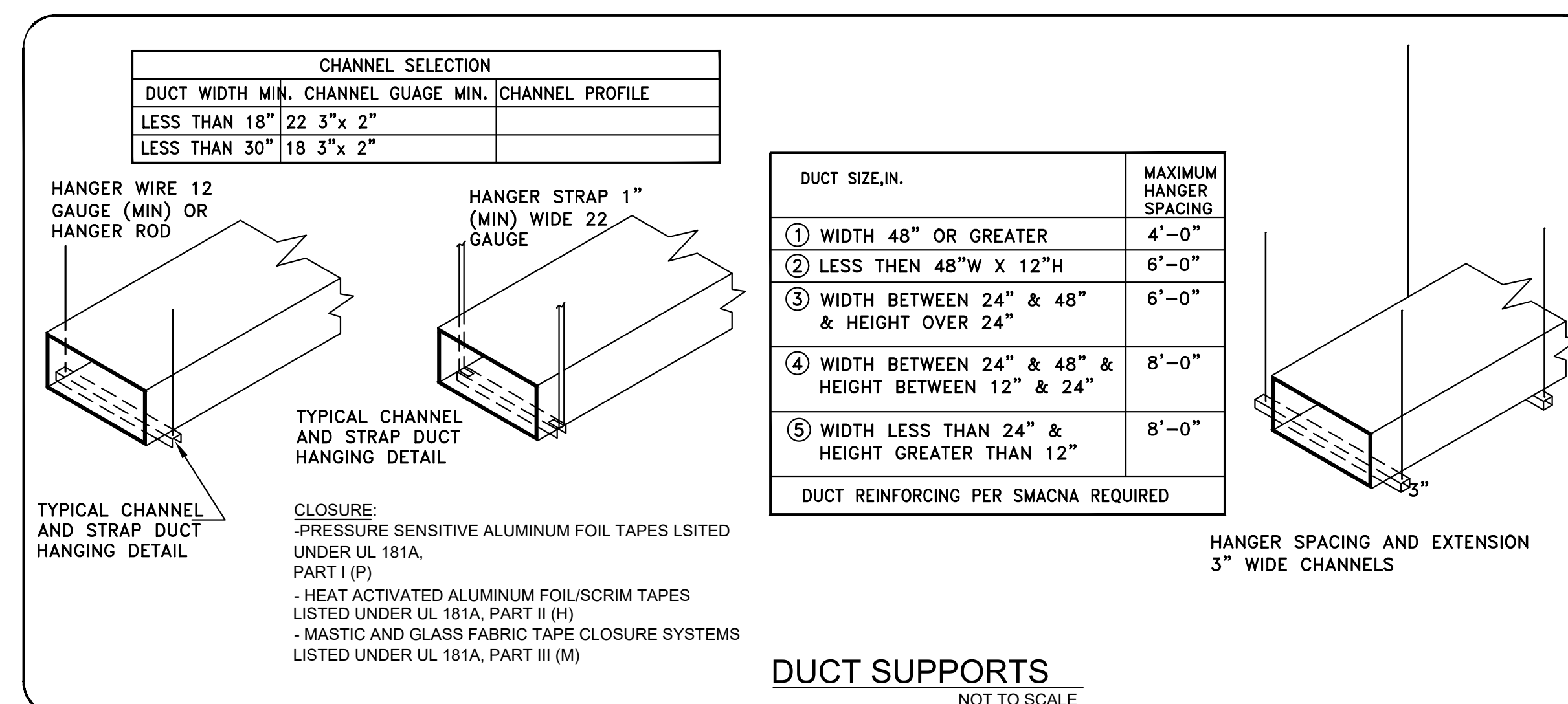
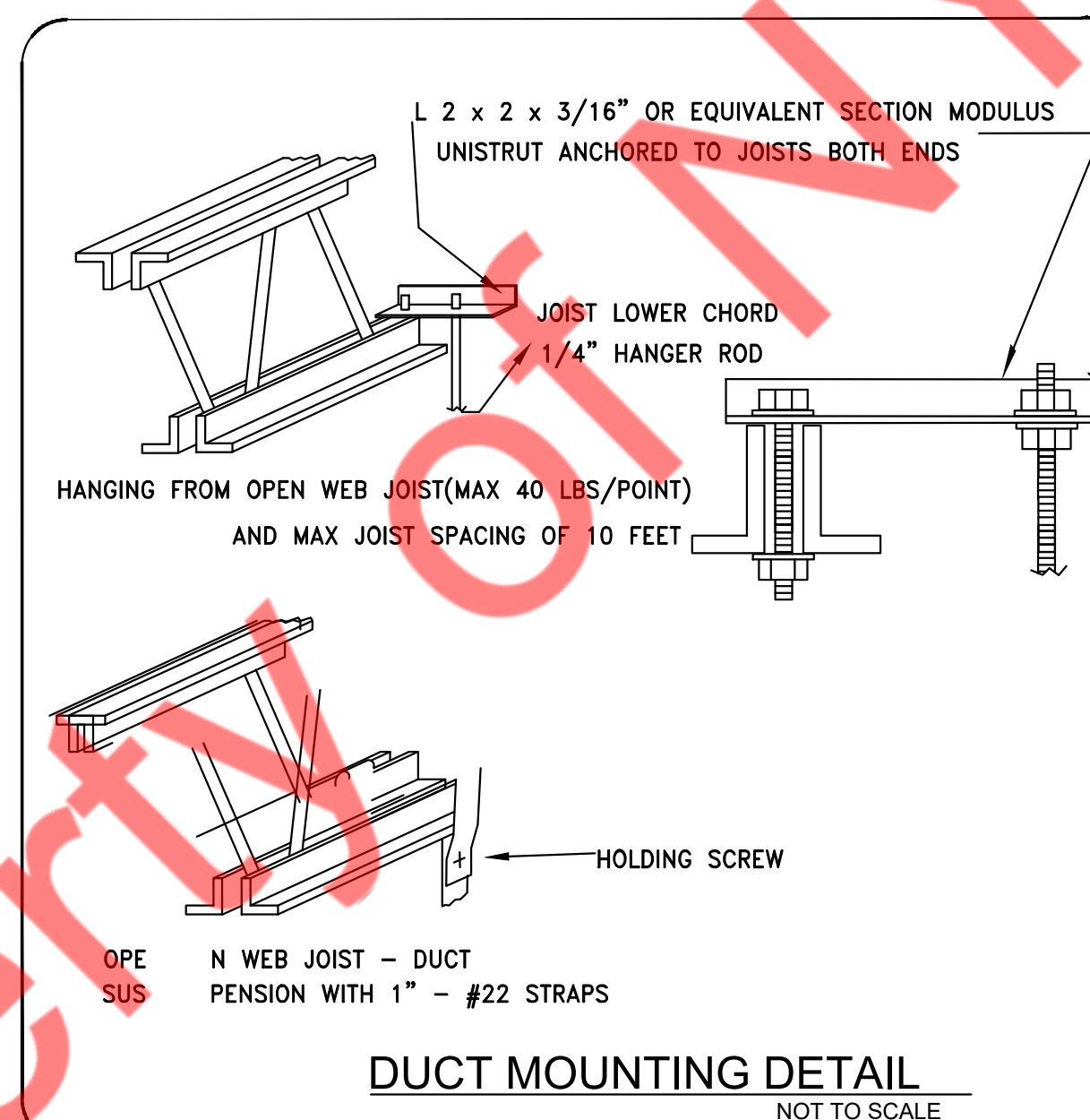
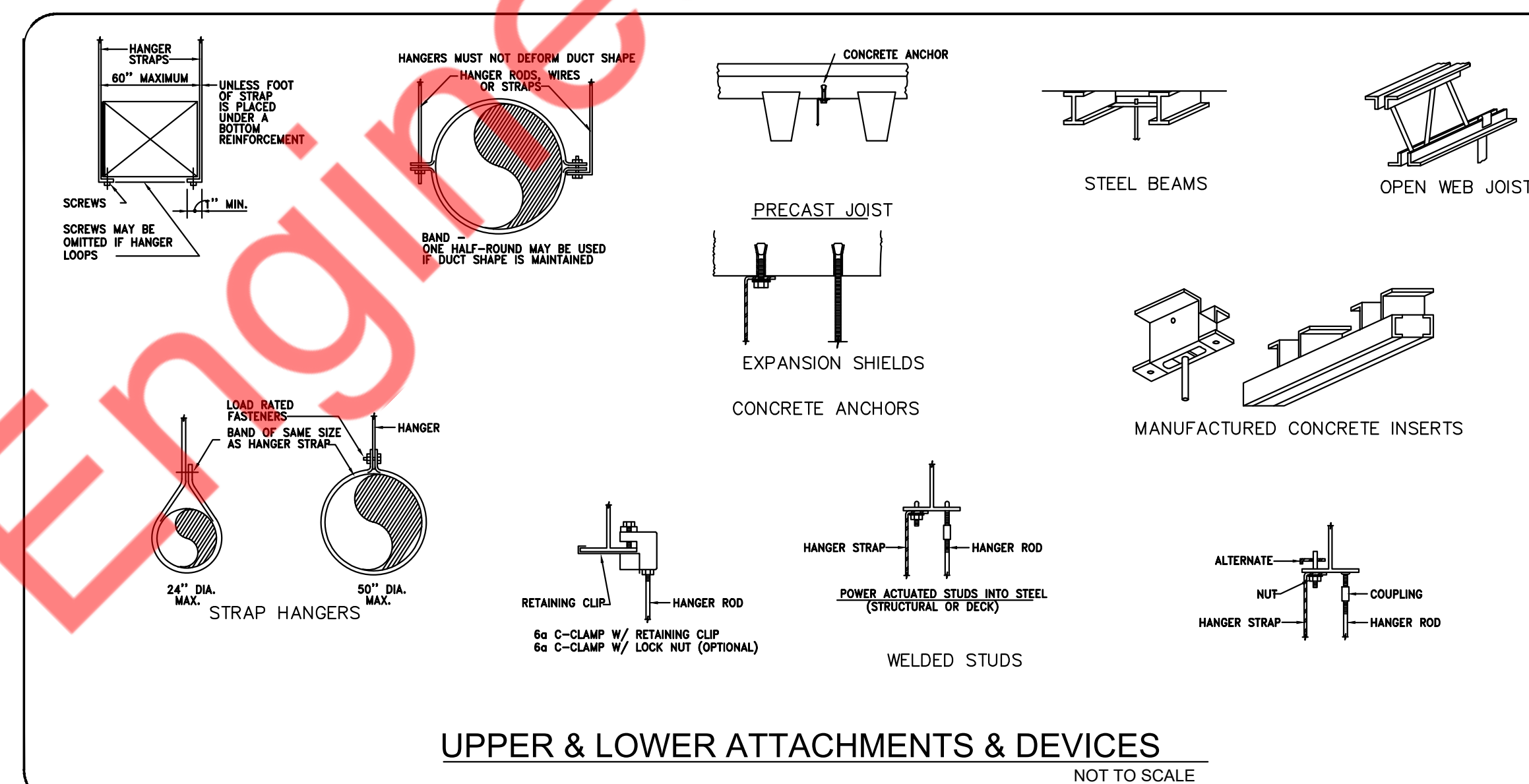
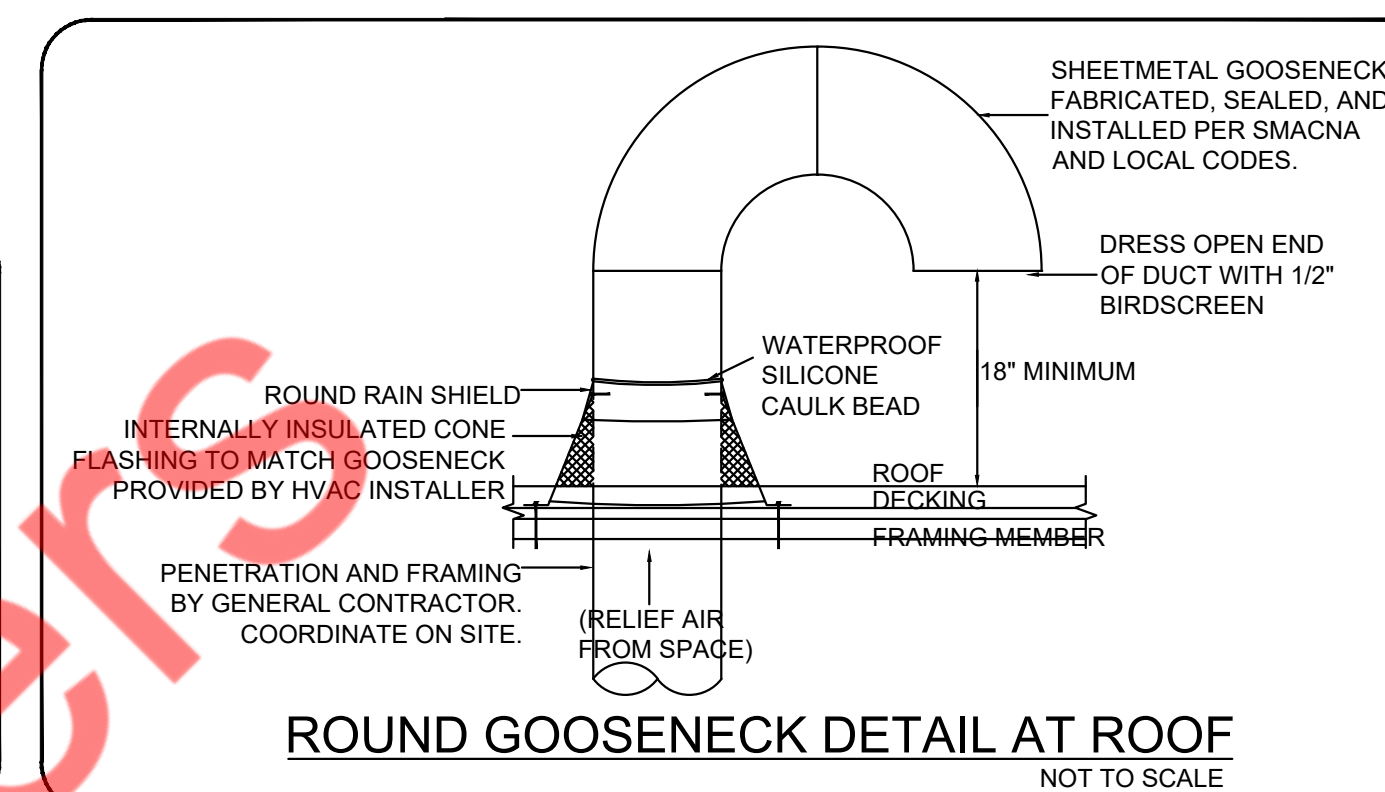
AIR QUANTITY TABLE			
SR. NO.	ROOM NAME	SUPPLY AIR CFM	RETURN AIR CFM
1.	DINING AREA	1800	
2.	SERVICE AREA	AS SHOWN	
3.	HALLWAY	100	AS SHOWN
4.	UNISEX RESTROOM 1	50	
5.	UNISEX RESTROOM 2	50	
6.	BOH	1600	1490

- NOTES:
1. CONTRACTOR IS TO BALANCE THE EXISTING DIFFUSERS TO MATCH THE AIR QUANTITIES PROVIDED IN THE TABLE ABOVE.
 2. CONTRACTOR TO FIELD VERIFY AND CONFIRM IF EXISTING DIFFUSERS ARE PROVIDED WITH VOLUME DAMPER IF NOT PROVIDE NEW ONE.
 3. IF EXISTING VOLUME DAMPER FOUND DAMAGED REPAIR OR REPLACE WITH SAME TYPE.
 4. CONTRACTOR TO FIELD VERIFY AND CONFIRM THE SPACE HAS MINIMUM OF 560 CFM OF OUTSIDE AIR TO THE EXISTING UNITS SERVING OUR SPACE.



SCALE

1/4" = 1'-0"



[illegible]

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which the system is installed. Do not proceed with work until satisfactory conditions have been corrected in manner acceptable to architect.

3.2 APPLICATION

A. Wet chemical-class B fire suppression system for use in commercial kitchen. It can be mounted in the integral cabinet located at the end of the hood or offered as a wall-mount package.

3.3 INSTALLATION


A. As part of this item, provide all mounted type K household portable fire extinguisher, piping, and mounting bracket as required in the immediate vicinity of each cooking unit, per NFPA-16 and NFPA-10. Additional fire extinguishers as required by the kitchen size are to be specified by the Architect and approved by the General Contractor.

B. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

C. Six-month and twelve-month inspections, servicing, and replacement of components as per NFPA 96 to be provided by the General Contractor or Owner.

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SUN AIR

4444 Lakeside Parkway, Unit 100 • Dallas, TX 75247 • (972) 797-7444 • www.sunair.com

DATE: 7/10/2024

DWG.#:
6876-332

DRAWN BY: Lakesh C.

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

EXHAUST FAN INFORMATION - J0846696332

FAN TAD	DTY	FAN UNIT MODEL #	IMP/PAQUAGES	CFM	CFM/HP	MINIMUM TAC	HP	IMP/PAQ	VOL.7	F.L.A.	RECOMMEND VOLTAGE	SHOCKS			
1	1	SA-828FPA	SEWARD	1262	1300	1307	1307	1307	13750	4.6500	3	108V	EA	100	120

MULA FAN INFORMATION - J0846696332

FAN UNIT NO.	DTY	FAN UNIT MODEL #	BEVER	HOUSING	CFM	CFM/HP	CFM	HP	IMP/PAQ	IMP/PAQ	VOL.7	F.L.A.	RECOMMEND VOLTAGE	SHOCKS	
1	1	SA-AU-828D-120	120H-4-MC	AU-120D	1800	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500

GAS FIBER MAKE-UP AIR UNIT(S)

FAN UNIT NO.	DTY	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ
1	1	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V

FAN OPTIONS

FAN UNIT NO.	DTY	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ
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FAN ACCESSORIES

FAN UNIT NO.	DTY	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ	IMP/PAQ
1	1	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V	108V

GAS ASSEMBLY

NO	IN	WEIGHT	ITEM	SIZE
1	1	10	10	10
2	2	20	20	20


HMC SCHEDULE

UNIT NUMBER	HMC #	HMC LOCATION	TEMP	TEMP AVERAGING
1	1	108V	108V	108V
2	2	20	20	20

TOP VIEW

[illegible][illegible]

REVISIONS	
NO.	DATE
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SUN AIR

4444 Lakeside Parkway, Unit 100, San Diego, CA 92122 (619)794-7644, ext. 200
 FAX: (619)794-7645
 www.sunair.com

DATE: 7/10/2024

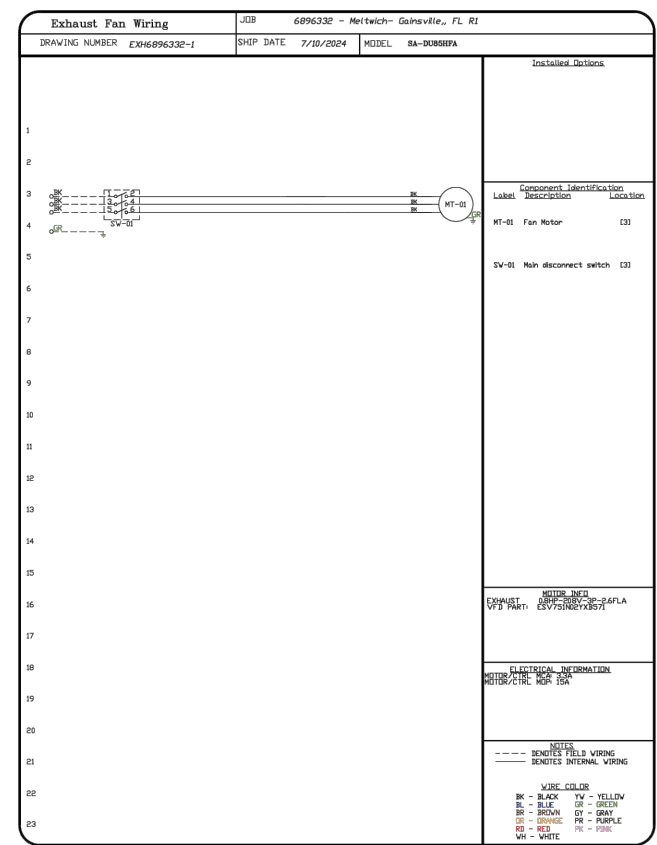
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6876.332

DRAWN BY: Lakesh C.

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.



REVISIONS

DATE: 7/10/2024

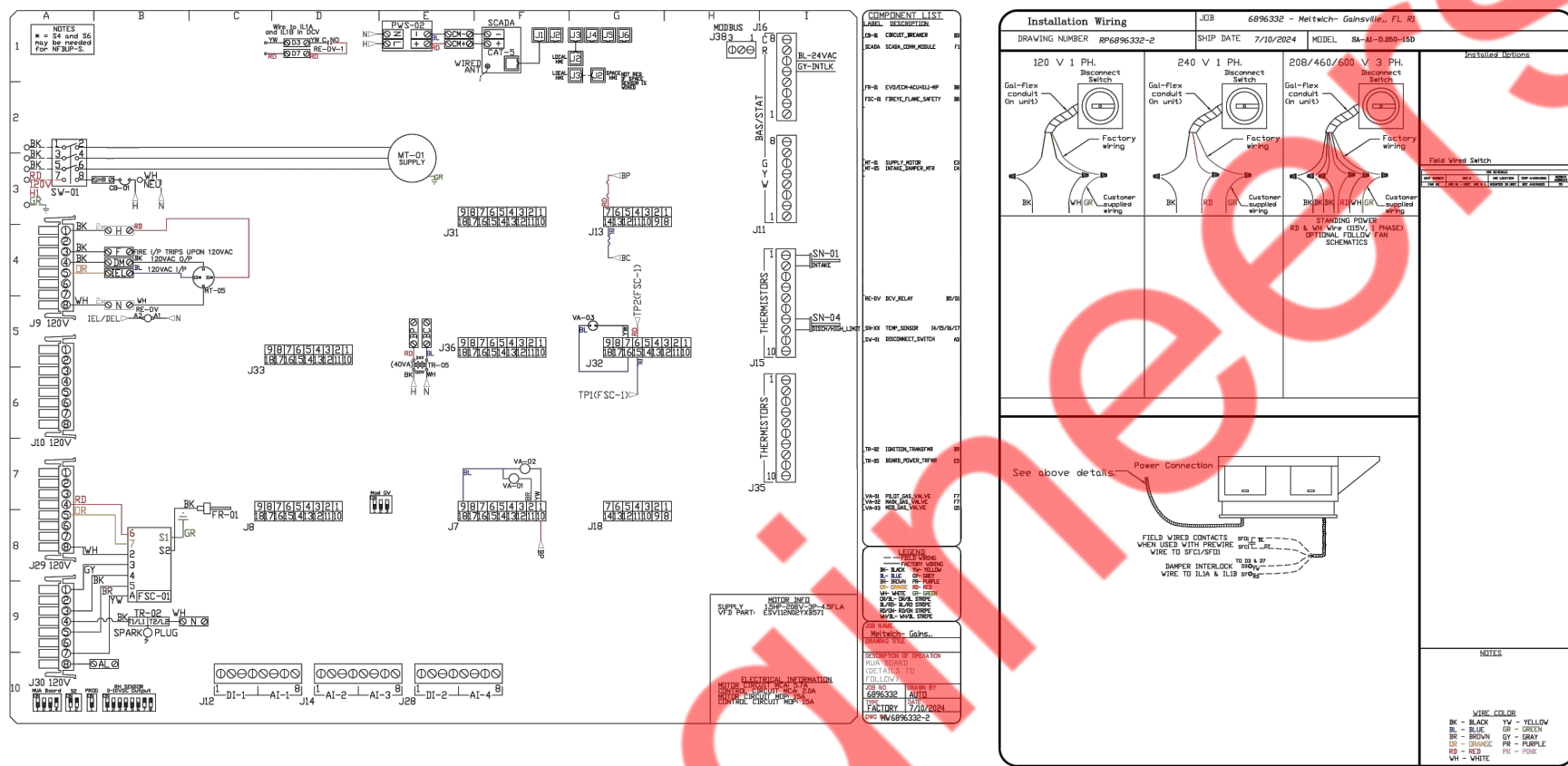
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DRAWN BY: Joseph C.

SCALE: 3/4" = 1'-0"

MASTER DRAWING

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REVISIONS

DATE: 7/10/2024

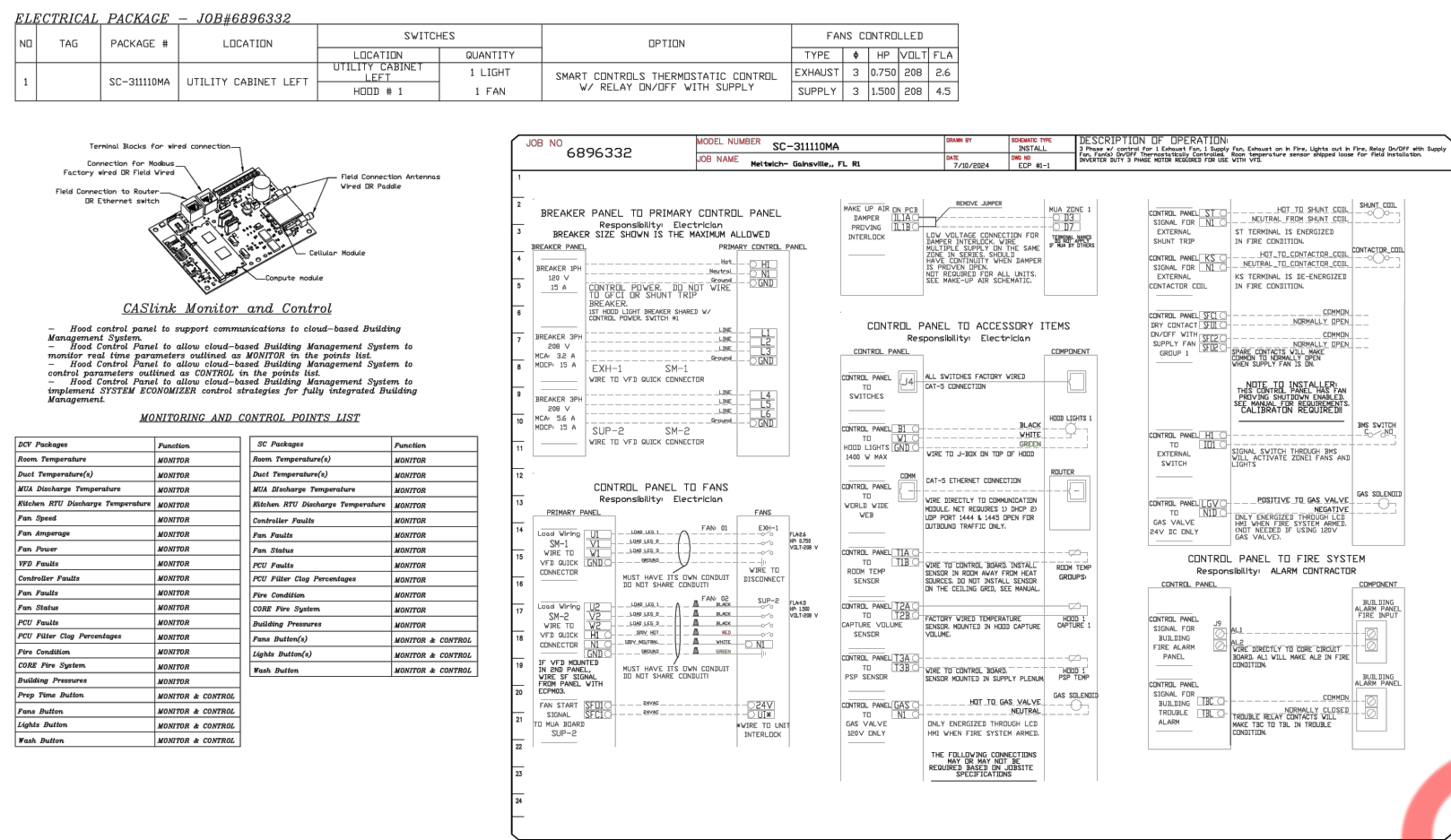
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DRAWN BY: Joseph C.

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 14



REVISIONS

DATE: 7/10/2024

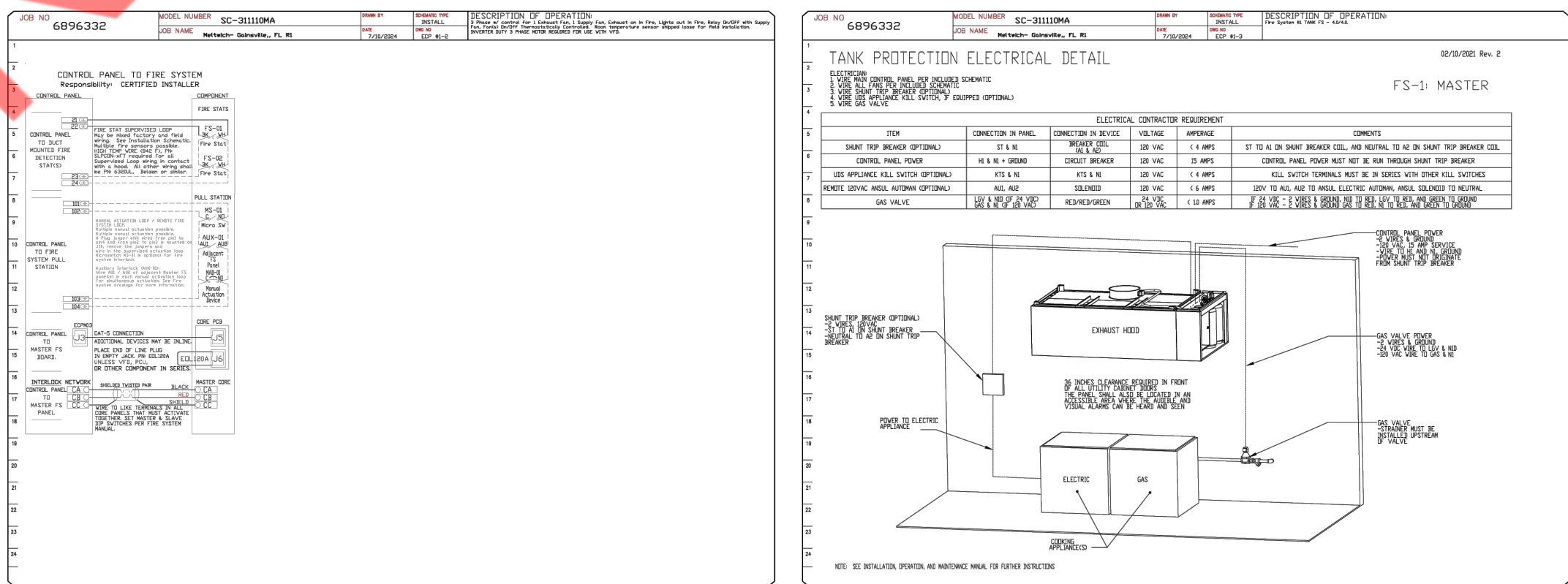
DWG: 6896332

DRAWN BY: Joseph C.

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 15



REVISIONS

DATE: 7/10/2024

DWG: 6896332

DRAWN BY: Joseph C.

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 16

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PROJECT

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REVISIONS DATES:

ISSUE DATE: 07.09.24
PROJECT #:
DRAWN BY: NYE
CHECKED BY: NYE

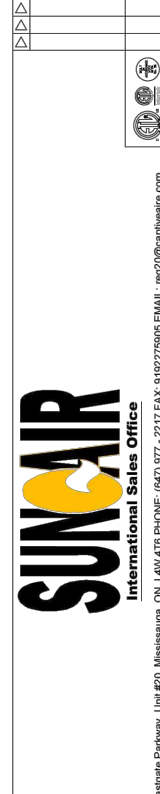
HOOD DETAILS
4 OF 5

M-7

PROJECT

HOOD DETAILS
5 OF 5

M-8

[illegible]

SCOPE OF WORK

1. REUSE EXISTING 200A,120/208V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE FOR THE PROJECT SPACE.

2. PROVIDE (1) NEW 200A(MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" FOR THE PROJECT SPACE.

3. ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE PROJECT SPACE INCLUDING WIRING FOR VENTILATION 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 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL CODES 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 BOLT 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. SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.

13. ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.

14. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.

15. SEPARATE PERMIT REQUIRED FOR SIGNAGE.

16. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED.

17. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.

18. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THIN INSULATION.

19. 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.

20. 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.

21. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. OR LOCAL CODES.

22. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.

23. 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.

24. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

25. 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.

26. 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.

27. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

28. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.

29. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.

30. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.

31. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.

32. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.

33. 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.

34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.

35. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.

36. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN DIRECTORIES.

37. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.

38. ALL LIGHT SWITCHES TO BE AT 42" A.F.F.

39. 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.

40. 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.

41. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.

42. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.

43. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.

44. 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.

45. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%, WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.

46. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION – FOR THE WHOLE CIRCUIT.

47. GAS PIPING SHALL BE BONDED.

48. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.

49. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.

50. 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.

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

52. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6'-0" OR LESS).

53. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUILDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.

54. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.

55. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.

56. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.

57. 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.

58. 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.

59. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.

60. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.

EXISTING CONDITIONS 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.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	EXHAUST FAN
	COMBINATION EXHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)
	JUNCTION BOX
	BATTERY BACK UP EXIT LIGHT
	BATTERY BACK UP EMERGENCY LIGHT
	WALL SWITCH (SINGLE, DOUBLE,)
	WALL SWITCH (3 WAY, 4 WAY)
	WALL SWITCH (TIMER)
	OCCUPANCY SENSOR WALL SWITCH
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, 40" TO AFF AT KITCHEN, BATHS AND TOPS
	HALF SWITCHED DUPLEX RECEPTACLE
	230 VOLT RECEPTACLE
	QUADRUPLUX RECEPTACLE
	FLOOR MOUNTED, FLUSH DUPLEX RECEPTACLE
	FLOOR MOUNTED, FLUSH QUAD. RECEPTACLE
	FLOOR MOUNTED, FLUSH 230 VOLT RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	ELECTRICAL PANEL
	DISCONNECT SWITCH
	USB CHARGER RECEPTACLE
	TELEVISION OUTLET
	TELEPHONE OUTLET
	TELEPHONE/DATA OUTLET
	DATA OUTLET
	FLOOR MTD. FLUSH TELEPHONE/DATA OUTLET
	QUAD. DATA OUTLET RJ45
	NON FUSED DISCONNECT SWITCH

ABBREVIATIONS:

ABOVE FINISH FLOOR= A.F.F.
COUNTER TOP LEVEL= C
GROUND FAULT INTERRUPTER= GFCI
VERIFY PRIOR TO INSTALL= VH
WEATHER PROOF= WP
KITCHEN EXHAUST FAN = KEF
WATER HEATER= WH
AUTHORITY HAVING JURISDICTION= A.H.J.
MAKE UP AIR UNIT=MAU

BELOW COUNTER= BC
PUSH BUTTON= PB
UNDER CABINET= UC
VAPOR PROOF= VP
ELECTRICAL CONTRACTOR=E.C.
BATHROOM EXHAUST FAN=BEF
RECIRCULATION PUMP= RCP
ROOF TOP UNIT= RTU
EXHAUST FAN=EF

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP WATTAGE	MOUNTING
	A	2x4 RECESSED LED LAY-IN	LEVITON_VISCOR	ERCTB2X42L-T528N120	120	28 WATTS	RECESSED
	A1	2x2 RECESSED LED LAY-IN	LEVITON_VISCOR	ERCTB2X42L-T514N120	120	14 WATTS	RECESSED
	B	LED RECESSED DOWNLIGHT	TBD	TBD	120	6 WATTS	SURFACE
	D	LED TRACK LIGHTING	TBD	TBD	120	20 WATTS	SURFACE/BAR HANG/CLOSED CEILING
	X1	WALL/CEILING MOUNTED EXIT SIGN	TBD	TBD	120	3.6 WATTS	WALL
	EM	WALL MOUNTED EMERGENCY LIGHT	TBD	TBD	120	2 WATTS	WALL
	EM2	CEILING MOUNTED EMERGENCY LIGHT	TBD	TBD	120	2 WATTS	CEILING
	T	TIMER WALL SWITCH	LEVITON	VPT24-16Z	120	-	WALL
	OS	OCCUPANCY WALL SWITCH	LEVITON	ODS10	120	-	WALL
	D	DIMMER WALL SWITCH	LUTRON	DVSTV-453PH-WH	120	-	WALL
	OS	CEILING OCCUPANCY SENSOR	LEVITON	O2C10-U0W	120	-	CEILING
	(E)	EXISTING LIGHTING FIXTURE TO REMAIN	-	-	-	-	-

NOTE:

1. E.C. SHALL COORDINATE WITH ARCHITECT FOR FINAL FIXTURE COUNT AND TYPE.

2. COORDINATE EXACT CONTROL REQUIREMENTS WITH OWNER.

3. E.C SHALL PROVIDE REQUIRED POWER PACKS AND RELAYS SUITABLE FOR THE ABOVE LIGHT FIXTURES IN COORDINATION WITH THE LIGHTING VENDOR. BASE BID ACCORDINGLY.

BUILDING EXTERIOR

PROJECT SPACE

EXISTING 2

3

4

1

FROM EXISTING BASE BUILDING DISTRIBUTION SYSTEM

NEW PANEL "A"

200A (MCB), 208/120V, 3-PHASE, 4-WIRE

EXISTING PANEL "A"

250A (M.L.O.), 208/120V, 3-PHASE, 4-WIRE

PROPOSED FLOOR

ELECTRICAL RISER KEYED NOTES:

1

EXISTING 200A, 208/120V, 3-PHASE, 4-WIRE INCOMING ELECTRICAL SERVICE FROM THE EXISTING BASE BUILDING DISTRIBUTION SYSTEM TO THE PROJECT'S SPACE SHALL REMAIN. E.C. SHALL COORDINATE WITH THE BASE BUILDING/LANDLORD/OWNER FOR EXACT POWER DISTRIBUTION. REPORT TO ENGINEER ON RECORD FOR ANY DISCREPANCIES.

2

EXISTING FEEDER TO REMAIN AND REROUTED TO THE NEW PANEL "A". E.C. TO VERIFY OPERABLE CONDITION AND LENGTH OF THE FEEDER IN FIELD AND PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

3

NEW 200A(MCB), 208/120V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.

4

DEMOLISH THE EXISTING 250A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A". INFORM ENGINEER FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.

RISER DIAGRAM GENERAL NOTES:

1. 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.

2. E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.

3. E.C. TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO COMMENCING ANY WORK.

4. E.C. TO VERIFY OPERABLE CONDITIONS OF EXISTING DEVICES IN FIELD, REPLACE/RECTIFY IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

ELECTRICAL RISER

SCALE

N.T.S.

1

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ELECTRICAL PLAN NOTES AND RISER DIAGRAM

E-1

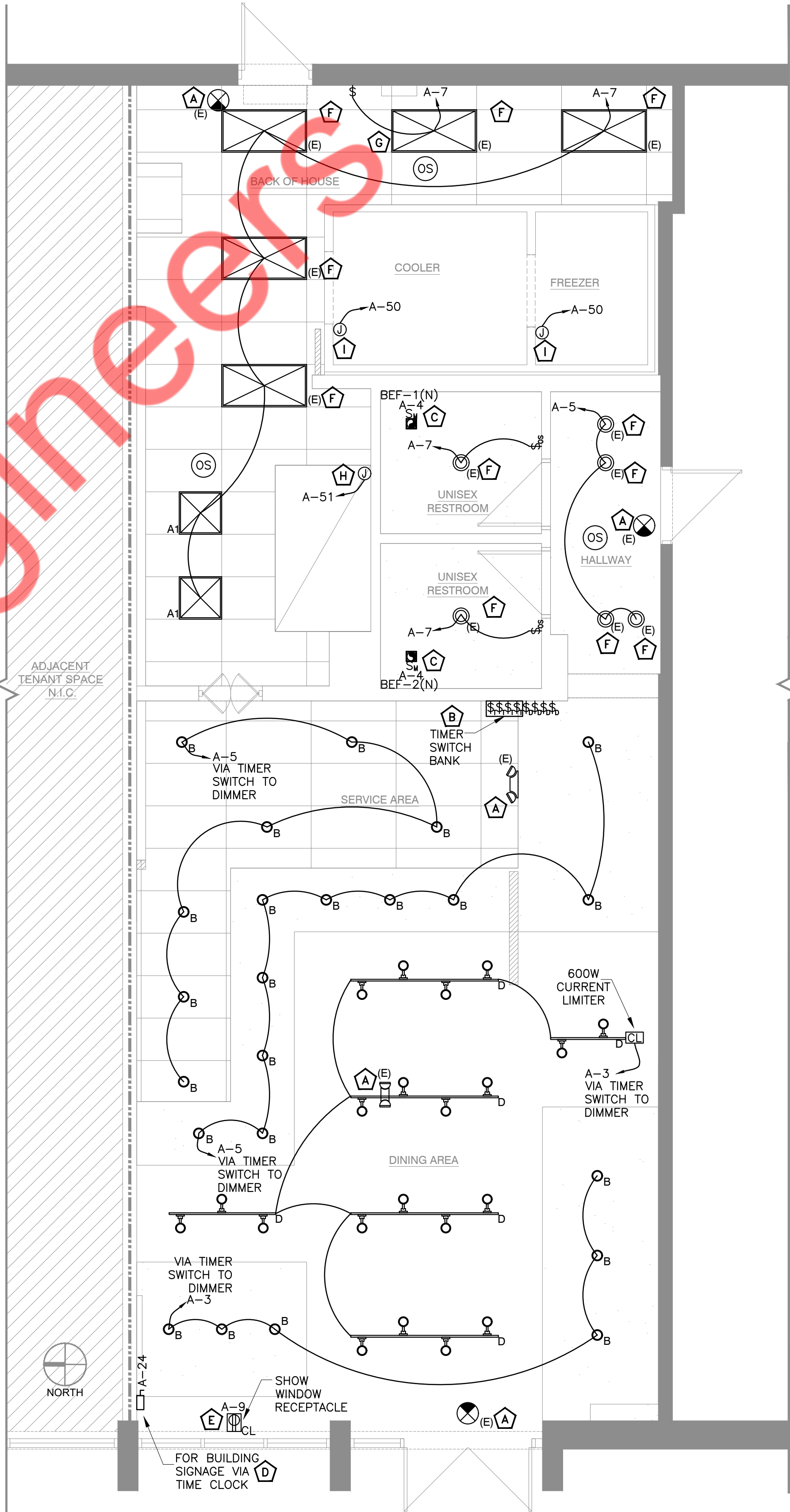
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LIGHTING PLAN GENERAL NOTES:

1. CONTRACTOR ADVISED TO UPDATE THE EMERGENCY LIGHT FIXTURES LOCATIONS/QUANTITY PER SITE REQUIREMENT UP ON FINAL INSPECTION OR PER LOCAL AHJ REQUIREMENT.
2. (E) IN THE PLAN INDICATES EXISTING TO REMAIN.

LIGHTING PLAN KEYED NOTES:

- A CONNECT EMERGENCY AND EGRESS LIGHTING FIXTURES TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
- B E.C. SHALL COORDINATE EXACT LOCATION OF TIMER SWITCH BANK WITH ARCHITECT/OWNER. E.C. SHALL CONFIRM CLEAR SPACE FOR SWITCH, NO OBJECT INFRONT ON SWITCH LOCATION.
- C EXHAUST FANS BEF-1(N) & BEF-2(N) SHALL BE INTERLOCKED WITH RTU-1(N). E.C. SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR IN THE FIELD. PRIOR TO ROUGH IN.
- D PROVIDE DISCONNECT SWITCH, TIMER AND OTHER ELECTRICAL CONNECTIONS FOR EXTERIOR SIGN. E.C. SHALL COORDINATE EXACT POWER REQUIREMENT, LOCATION AND MOUNTING DETAILS WITH OWNER/LANDLORD & SIGN VENDOR.
- E PROVIDE SHOW WINDOW RECEPTACLE AS PER N.E.C. 210.62. VERIFY EXACT LOCATION WITH ARCHITECT.
- F EXISTING LIGHT FIXTURE DENOTED BY (E) SHALL REMAIN AS SHOWN IN THE PLANS. E.C. SHALL VERIFY THE EXACT EXISTING LIGHTING CONTROLS PROVIDED. THEIR OPERATING CONDITIONS IN FIELD. THE EXISTING LIGHTING CONTROLS SHALL BE IN COMPLIANCE WITH LATEST IECC/ASHRAE CODES. IF REQUIRED PROVIDE NEW CONTROLS AS SHOWN IN THE PLANS. INFORM ENGINEER/OWNER/ARCHITECT ON RECORD FOR ANY DISCREPANCIES/ISSUES BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- G LIGHTING NEAR ELECTRICAL PANELS SHALL NOT BE CONTROLLED BY ANY AUTOMATIC MEANS AND SHALL BE COMPLIED AS PER NEC 110.26(D).
- H PROVIDE 120V DEDICATED CIRCUIT FOR NEW HOOD LIGHTING & CONTROL PANEL. COORDINATE FOR LIGHTING CONNECTION & ALL OTHER REQUIREMENT WITH CAPTIVE AIRE HOOD DRAWINGS/MANUFACTURER IN FIELD.
- I EXISTING LIGHTING FIXTURE IN THIS WALK IN COOLER/FREEZER ALONG WITH ITS CONTROLS SHALL REMAIN AS IT IS. E.C. SHALL VERIFY THE OPERABLE CONDITION OF THE LIGHTING CONNECTION AND CONTROLS BEFORE COMMENCING ANY WORK. IF REQUIRED PROVIDE NEW AS SHOWN IN THE DRAWING. E.C. SHALL COORDINATE IN FIELD FOR ANY OTHER REQUIREMENT WITH OWNER/VENDOR. BASE BID ACCORDINGLY.



LIGHTING PLAN

SCALE
1/4" = 1'-0"

1

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LIGHTING PLAN

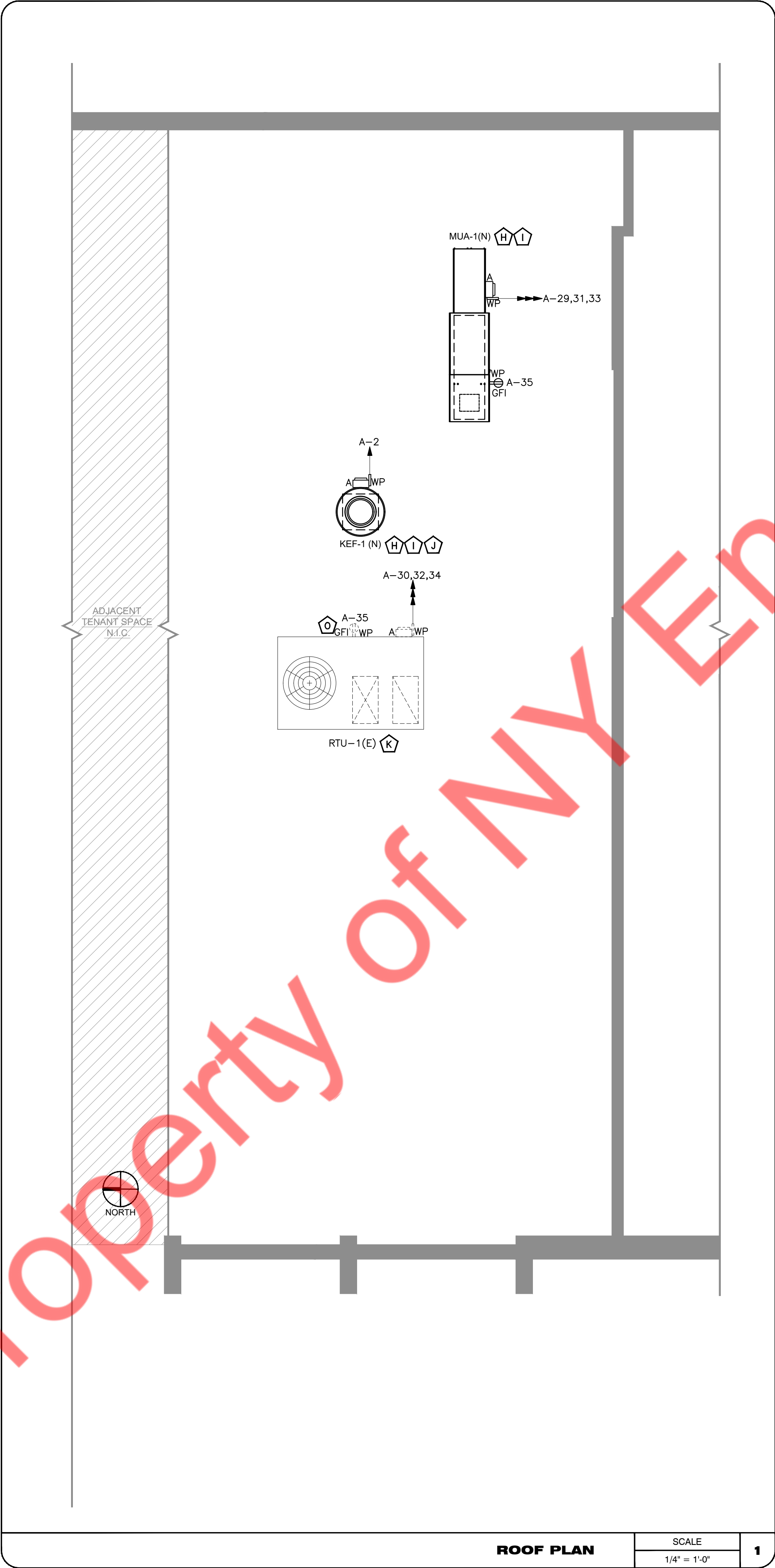
E-2

POWER PLAN GENERAL NOTES:

- ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B) SHALL HAVE GFCI PROTECTION. ALL THE KITCHEN EQUIPMENT SHALL HAVE GFI BREAKER IN PANELS.
- 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.

POWER PLAN KEYED NOTES:

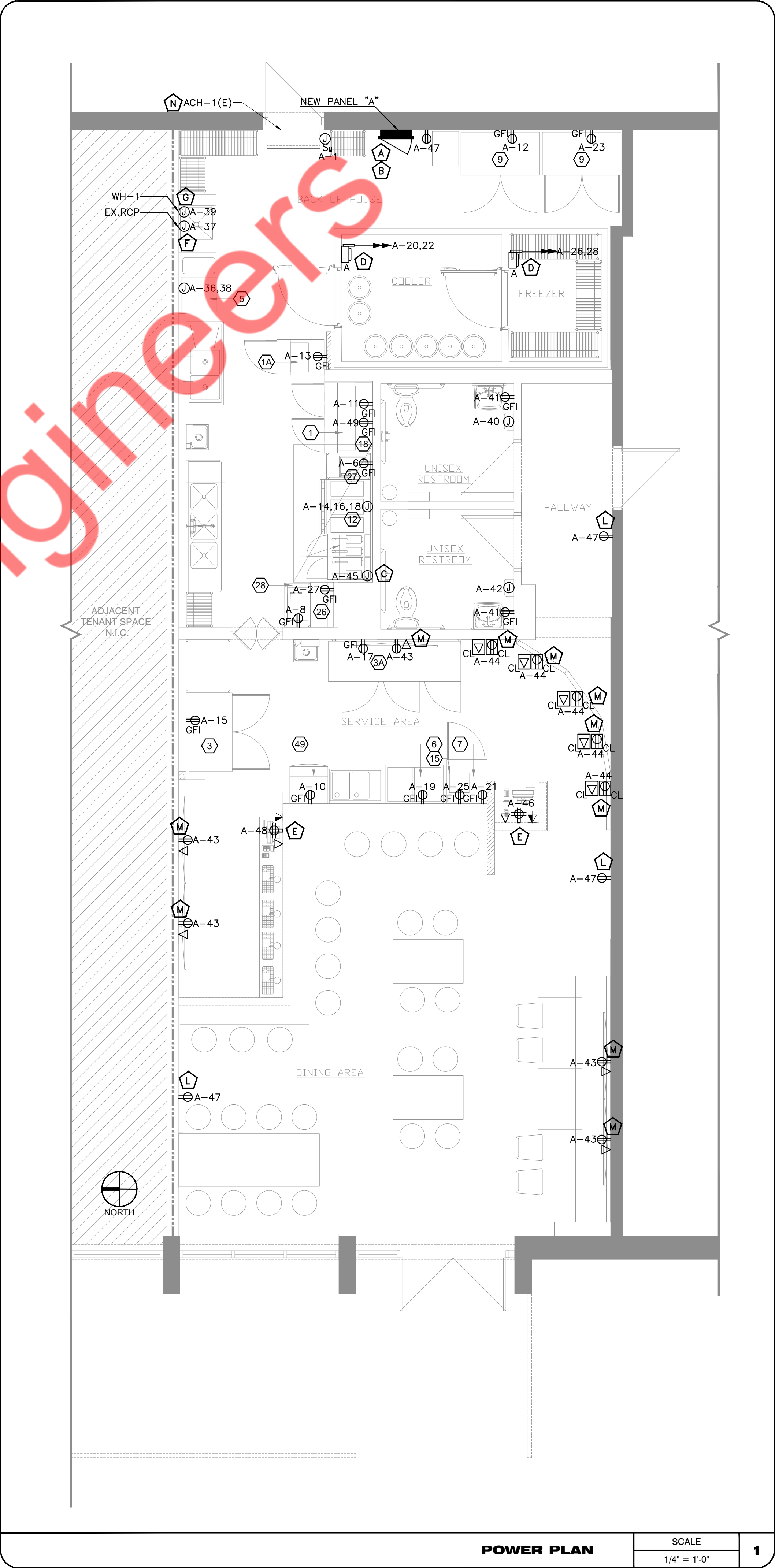
- A** NEW 200A(MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" E.C. TO COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
- B** E.C. SHALL VERIFY THE INSTALLATION OF ELECTRICAL EQUIPMENTS ARE IN COMPLIANCE WITH N.E.C. ARTICLE 110.26(A) AND (B). E.C. SHALL FIELD VERIFY THAT THE PANELS ARE UNOBSTRUCTED AND THE AREA WHERE THE PANELS ARE PLACED SHALL NOT BE USED AS A STORAGE SPACE.
- C** ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH FIRE SUPPRESSION SYSTEM VENDOR FOR ITS POWER REQUIREMENT AND OTHER DETAILS BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- D** EXISTING WALK IN COOLER/FREEZER UNITS ELECTRICAL FIXTURE SHALL REMAIN AND RECIRCUITED TO THE NEW PANEL "A". E.C. SHALL VERIFY THE OPERABLE CONDITION OF THE EXISTING BRANCH CIRCUIT AND ELECTRICAL FIXTURE. PROVIDE NEW IF FOUND INOPERABLE. ELECTRICAL CONTRACTOR TO COORDINATE ANY REQUIREMENT WITH WALK IN COOLER/FREEZER MANUFACTURER/ OWNER BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- E** E.C. SHALL COORDINATE WITH THE POS SYSTEM VENDOR/MANUFACTURER/OWNER FOR THE EXACT REQUIREMENT OF THE POS SYSTEM AND MOUNTING HEIGHT OF THE OUTLETS/DATA OUTLETS BEFORE COMMENCING ANY WORK. INFORM ENGINEER FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.
- F** EXISTING PLUMBING EQUIPMENT (EX.RCP) WITH ITS ELECTRICAL FIXTURE AND ELECTRICAL CONNECTION TO REMAIN AND CIRCUIT/FEDER SHALL BE REROUTE TO THE NEW PANEL "A". E.C. SHALL VERIFY OPERABLE CONDITION OF ELECTRICAL CONNECTION, ELECTRICAL FIXTURE & LENGTH OF THE EXISTING BRANCH FEEDER ON FIELD. REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- G** ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE PLUMBING UNITS IN THE FIELD. PROVIDE CIRCUIT AND CONTROL AS REQUIRED.
- H** ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE MECHANICAL UNITS IN THE FIELD. PROVIDE CIRCUIT AND CONTROL AS REQUIRED.
- I** ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES
- J** KEF-1(N) SHALL BE INTERLOCKED WITH MUA-1(N). E.C. SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR IN THE FIELD. PRIOR TO ROUGH IN.
- K** EXISTING MECHANICAL EQUIPMENT RUT-1(E) WITH ITS ELECTRICAL CONNECTION AND ELECTRICAL FIXTURE TO REMAIN AND CIRCUIT/FEDER SHALL BE REROUTED TO THE NEW PANEL "A". E.C. SHALL VERIFY OPERABLE CONDITION OF ELECTRICAL CONNECTION, ELECTRICAL FIXTURE AND LENGTH OF THE BRANCH FEEDER ON FIELD. REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- L** ALL 15/20A, 125V AND 250V NON LOCKING TYPE RECEPTACLES IN LOBBY/ HALLWAY SHALL BE LISTED TAMPER RESISTANCE AS PER NEC 406.12.
- M** E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT LOCATION, MOUNTING HEIGHT AND RECEPTACLE REQUIREMENT FOR THE TELEVISION BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- N** EXISTING MECHANICAL EQUIPMENT(ACH-1(E)) WITH ITS ELECTRICAL CONNECTION AND ELECTRICAL FIXTURE TO REMAIN AND CIRCUIT/FEDER SHALL BE REROUTED TO THE NEW PANEL "A". E.C. SHALL VERIFY OPERABLE CONDITION OF ELECTRICAL CONNECTION, ELECTRICAL FIXTURE AND LENGTH OF THE BRANCH FEEDER ON FIELD. REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- O** ELECTRICAL ROOF OUTLETS IF ANY SHALL REMAIN. E.C. SHALL COORDINATE IN FIELD THE OPERABLE CONDITION OF THE SAME AND PROVIDE NEW IF FOUND INOPERABLE AS SHOWN ON THE DRAWING. BASE BID ACCORDINGLY.



ROOF PLAN

SCALE
1/4" = 1'-0"

1



POWER PLAN

SCALE
1/4" = 1'-0"

1

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POWER & ROOF PLAN

E-3

ELECTRICAL PANEL SCHEDULE:--

PANEL:		A(N)											MOUNTING:		RECESSED	
208Y/120		VOLTS											PANEL LOCATION:		BACK OF HOUSE	
MCB		200A	M.L.O.	NA	BUS:	225A										
NOTE:																
CKT NO.	TRIP AMPS		LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.		
						A	B	C								
1	20	AIR CURTAIN	M	0.59	2#12, #12G, 3/4"C	1.61			2#12, #12G, 3/4"C	1.02	M	KEF-1(N)	20	2		
3	20	LIGHTING - DINING AREA	L	0.66	2#12, #12G, 3/4"C		0.70		2#12, #12G, 3/4"C	0.04	M	BEF-1 & 2(N)	20	4		
5	20	LIGHTING - SERVICE AREA & HALLWAY	L	0.13	2#12, #12G, 3/4"C			1.83	2#12, #12G, 3/4"C	1.70	E	TOASTER_#27	20	6		
7	20	LIGHTING - UNISEX RESTROOM & BACK OF HOUSE	L	0.18	2#12, #12G, 3/4"C	1.18			2#12, #12G, 3/4"C	1.00	E	FOOD WARMER_#28	20	8		
9	20	SHOW WINDOW RECEPTACLE	R	1.80	2#12, #12G, 3/4"C		2.79		2#12, #12G, 3/4"C	0.99	E	UNDERCOUNTER ICE MAKER_#49	20	10		
11	20	COLD TABLE 48" _#1	E	0.67	2#12, #12G, 3/4"C			1.77	2#12, #12G, 3/4"C	1.10	E	2 DR REACH-IN REFRIGERATION_#9	20	12		
13	20	COLD TABLE 27" _#1A	E	0.40	2#12, #12G, 3/4"C	7.36				6.96	H	3-PLATEN PRESS GIRDLE_#12	40/3P	14		
15	20	2DR BACK BAR UNDERCOUNTER REFRIGERATOR_3	E	0.32	2#12, #12G, 3/4"C		7.28		3#8, #10G, 3/4"C	6.96	H			16		
17	20	2DR BACK BAR UNDERCOUNTER REFRIGERATOR_3A	E	0.32	2#12, #12G, 3/4"C			7.28		6.96	H			18		
19	20	ICE CREAM COOLER 39" _#6	E	0.35	2#12, #12G, 3/4"C	1.52			2#12, #12G, 3/4"C	1.17	E	WALK-IN COOLER	20/2P	20		
21	20	UC REFRIGERATOR_#7	E	0.26	2#12, #12G, 3/4"C		1.43			1.17	E			22		
23	20	2 DR REACH-IN REFRIGERATION_#9	E	1.10	2#12, #12G, 3/4"C			2.90	2#12, #12G, 3/4"C	1.80	L	EXTERIOR BUILDING SIGNAGE/ TIMECLOCK	20	24		
25	20	MILKSHAKE MIXER_#15	E	0.40	2#12, #12G, 3/4"C	2.00			2#12, #12G, 3/4"C	1.60	E	WALK-IN FREEZER	20/2P	26		
27	20	DUMP STATION WITH HEATING LAMP_#26	E	0.20	2#12, #12G, 3/4"C		1.80			1.60	E			28		
29	15/3P	MUA-1(N)	H	0.68	3#12, #12G, 3/4"C			7.65	3#4, #8G, 1"C	6.96	H	RTU-1(E)	80/3P	30		
31			H	0.68		7.65		6.96		H	32					
33			H	0.68			7.65			6.96	H		34			
35	20	RECEPTACLE- ROOF	R	0.36	2#12, #12G, 3/4"C			3.86	2#8, #10G, 3/4"C	3.50	E	DISHWASHER_#5	40/2P	36		
37	20	EX.RCP	O	0.06	2#12, #12G, 3/4"C	3.56				3.50	E			38		
39	20	WATER HEATER (WH-1)	O	0.86	2#12, #12G, 3/4"C		2.26		2#12, #12G, 3/4"C	1.40	R	HAND DRYER	20	40		
41	20	RECEPTACLE- RESTROOMS	R	0.36	2#12, #12G, 3/4"C			1.76	2#12, #12G, 3/4"C	1.40	R	HAND DRYER	20	42		
43	20	RECEPTACLE- TV	R	0.90	2#12, #12G, 3/4"C	1.80			2#12, #12G, 3/4"C	0.90	R	RECEPTACLE- MEANU BOARD	20	44		
45	20	FIRE SUPPRESSION SYSTEM	R	0.50	2#12, #12G, 3/4"C		0.86		2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- POS	20	46		
47	20	RECEPATCEL- GENERAL	R	0.72	2#12, #12G, 3/4"C			1.08	2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- POS	20	48		
49	20	PRINTER_#18	E	0.18	2#12, #12G, 3/4"C	0.68			2#12, #12G, 3/4"C	0.50	L	LIGHTING- WALK-IN COOLER/FREEZER	20	50		
51	20	LIGHTING- HOOD	L	1.80	2#12, #12G, 3/4"C		1.80					SPARE	20	52		
53	20	SPARE						0.00				SPARE	20	54		
						27.36	26.57	28.13								

EQUIPMENT SCHEDULE:--

ITEM NO.	DESCRIPTION	VOLTAGE	PHASE	AMPS	kW	REMARK
1	COLD TABLE 48"	115	1	5.8	0.67	-
1A	COLD TABLE 27"	115	1	3.5	0.40	-
3	2DR BACK BAR UNDERCOUNTER REFRIGERATOR	115	1	2.8	0.32	-
3A	2DR BACK BAR UNDERCOUNTER REFRIGERATOR	115	1	2.8	0.32	-
5	DISHWASHER	208	1	30.1	6.26	-
6	ICE CREAM COOLER 39"	120	1	2.9	0.35	-
7	UC REFRIGERATOR	115	1	2.3	0.26	-
9	2 DR REACH-IN REFRIGERATION	115	1	9.6	1.10	-
12	3-PLATEN PRESS GIRDLE	208	3	30.9	10.60	-
15	MILKSHAKE MIXER	120	1	3.3	0.40	-
26	DUMP STATION WITH HEATING LAMP	110	1	1.8	0.20	-
27	TOASTER	120	1	14.2	1.70	-
28	FOOD WARMER	120	1	8.3	1.00	-
49	UNDERCOUNTER ICE MAKER	115	1	8.6	0.99	-

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PANEL SCHEDULES

- GENERAL NOTES
1.

UNLESS OTHERWISE NOTED, SLOPE OF DRAINAGE SYSTEM TO BE 1/16" PER FOOT OF RUN FOR PIPE 8" AND OVER, 1/8" PER FOOT FOR PIPE 3" TO 6" AND 1/4" PER FOOT FOR PIPE 2-1/2" AND SMALLER.
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.

CONTRACTOR TO FIELD VERIFY THE EXISTING SANITARY AND VENT LOCATION AND ROUTING. MAKE NECESSARY CHANGES TO NEW GREASE SANITARY PIPING AS PER THE EXISTING SITE CONDITION.

- SANITARY PLAN & RISER KEY NOTE
- 1

CONNECT NEW 4" SANITARY WASTE PIPING TO EXISTING SANITARY MAIN LINE OF ADEQUATE SIZE IN/NEARBY SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING AND INVERT OF EXISTING SANITARY LINE AND MAKE NECESSARY CHANGES IF REQUIRED.
- 2

CONNECT NEW 3" VENT PIPING TO EXISTING VENT LINE OF ADEQUATE SIZE IN/NEARBY SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION AND ROUTING OF EXISTING VENT LINE ON SITE AND MAKE NECESSARY CHANGES IF REQUIRED.
- 3

EXISTING WATER CLOSET TO REMAIN WITH EXISTING SANITARY AND VENT CONNECTION. CONTRACTOR TO FIELD VERIFY THE CONDITION OF THE EXISTING PIPING AND REPLACE IF REQUIRED.
- 4

EXISTING LAVATORY TO REMAIN WITH EXISTING SANITARY AND VENT CONNECTION. CONTRACTOR TO FIELD VERIFY THE CONDITION OF THE EXISTING PIPING AND REPLACE IF REQUIRED.
- 5

EXISTING 3 COMPARTMENT SINK TO REMAIN. PROVIDE NEW FLOOR SINK AND ROUTE INDIRECT DRAIN FROM 3-COMP SINK TO FLOOR SINK.
- 6

EXISTING PREP SINK TO REMAIN WITH EXISTING FLOOR SINK. PROVIDE NEW GREASE SANITARY AND VENT PIPING CONNECTIONS TO THE EXISTING FLOOR SINK.
- 7

EXISTING HAND SINK TO REMAIN WITH EXISTING VENT PIPING. CONNECT NEW GREASE SANITARY PIPING CONNECTIONS TO THE EXISTING HAND SINK. CONTRACTOR TO FIELD VERIFY THE VENT PIPE SIZE AND CONDITION AND REPLACE IF REQUIRED.
- 8

EXISTING MOP SINK TO REMAIN WITH EXISTING VENT PIPING. CONNECT NEW GREASE SANITARY PIPING CONNECTIONS TO THE EXISTING MOP SINK. CONTRACTOR TO FIELD VERIFY THE VENT PIPE SIZE AND CONDITION AND REPLACE IF REQUIRED.
- 9

CONNECT NEW 3" SANITARY WASTE PIPING TO EXISTING SANITARY MAIN LINE IN/NEARBY SPACE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING AND INVERT OF EXISTING SANITARY MAIN AND MAKE NECESSARY CHANGES IF REQUIRED.
- 10

CONNECT EXISTING FLOOR DRAIN TO NEW 3" GREASE PIPE AND PROVIDE VENT AS SHOWN.
- 11

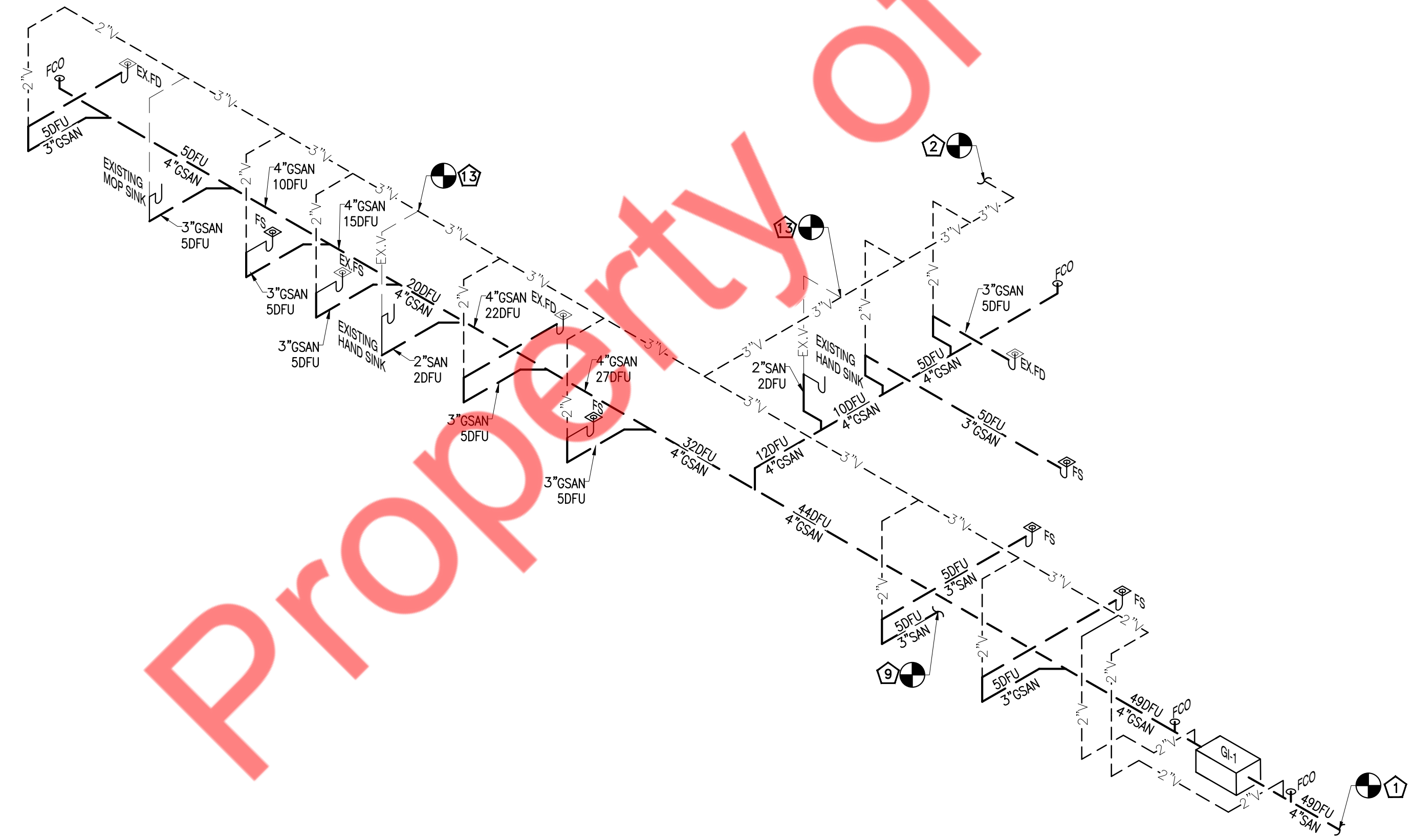
PROVIDE NEW EXTERIOR GREASE INTERCEPTOR OF 1250 GALLONS.
- 12

DEMOLISH THE EXISTING INDOOR GREASE INTERCEPTOR.
- 13

CONNECT EXISTING VENT PIPING TO NEW 3" VENT LINE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION AND ROUTING OF EXISTING VENT LINE AND MAKE NECESSARY CHANGES AS PER THE SITE CONDITIONS.
- 14

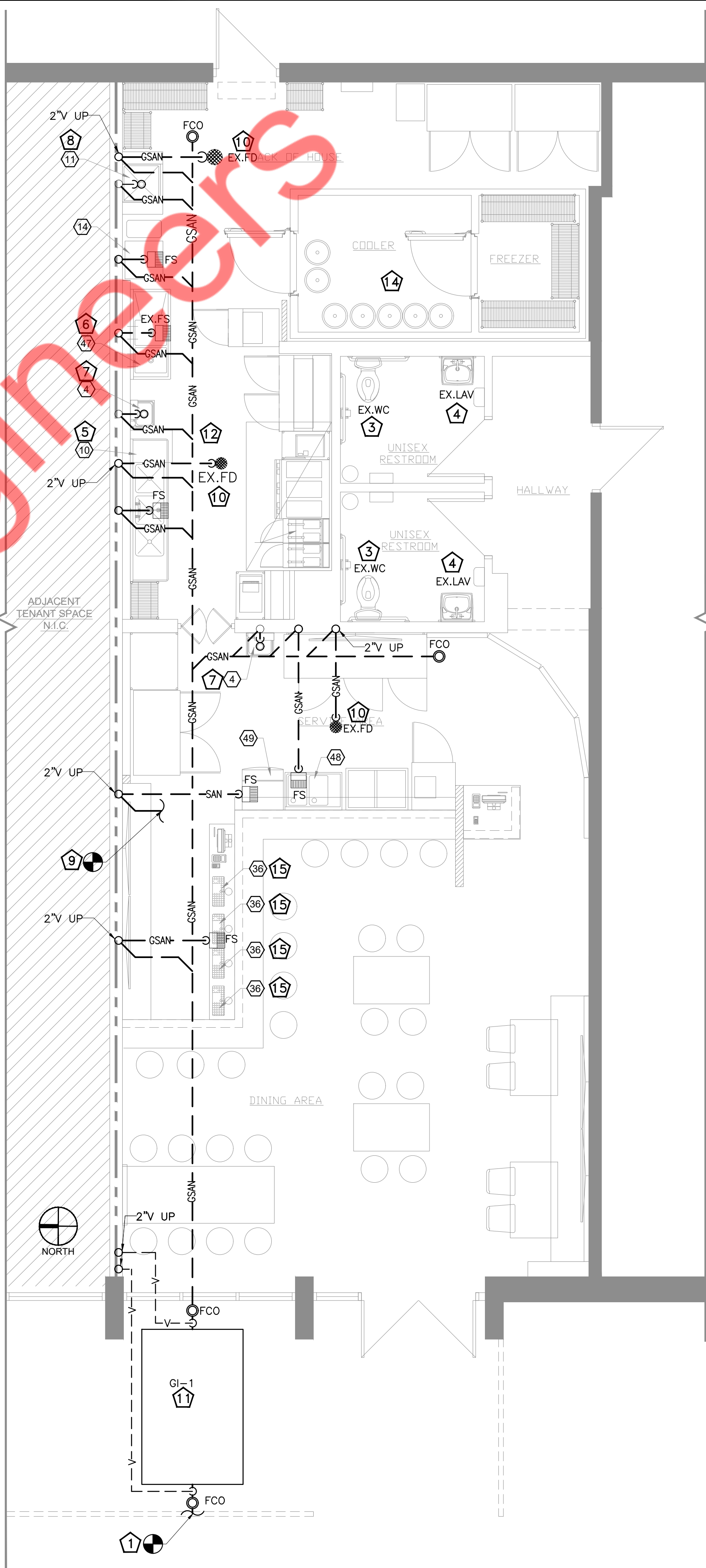
EXISTING DRAIN OF COOLER & FREEZER TO REMAIN. CONTRACTOR TO FIELD VERIFY CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- 15

ROUTE INDIRECT WASTE FROM DRAFT BEER SYSTEM TO THE NEAREST FLOOR SINK.



SANITARY & VENT RISER

SCALE
N.T.S.



SANITARY & VENT PLAN

SCALE
1/4" = 1'-0"

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PROJECT

MELTWICH

REVISIONS DATES:

ISSUE DATE: 07.09.24

PROJECT #:

DRAWN BY: NYE

CHECKED BY: NYE

SANITARY, VENT PLAN & RISER

P-2

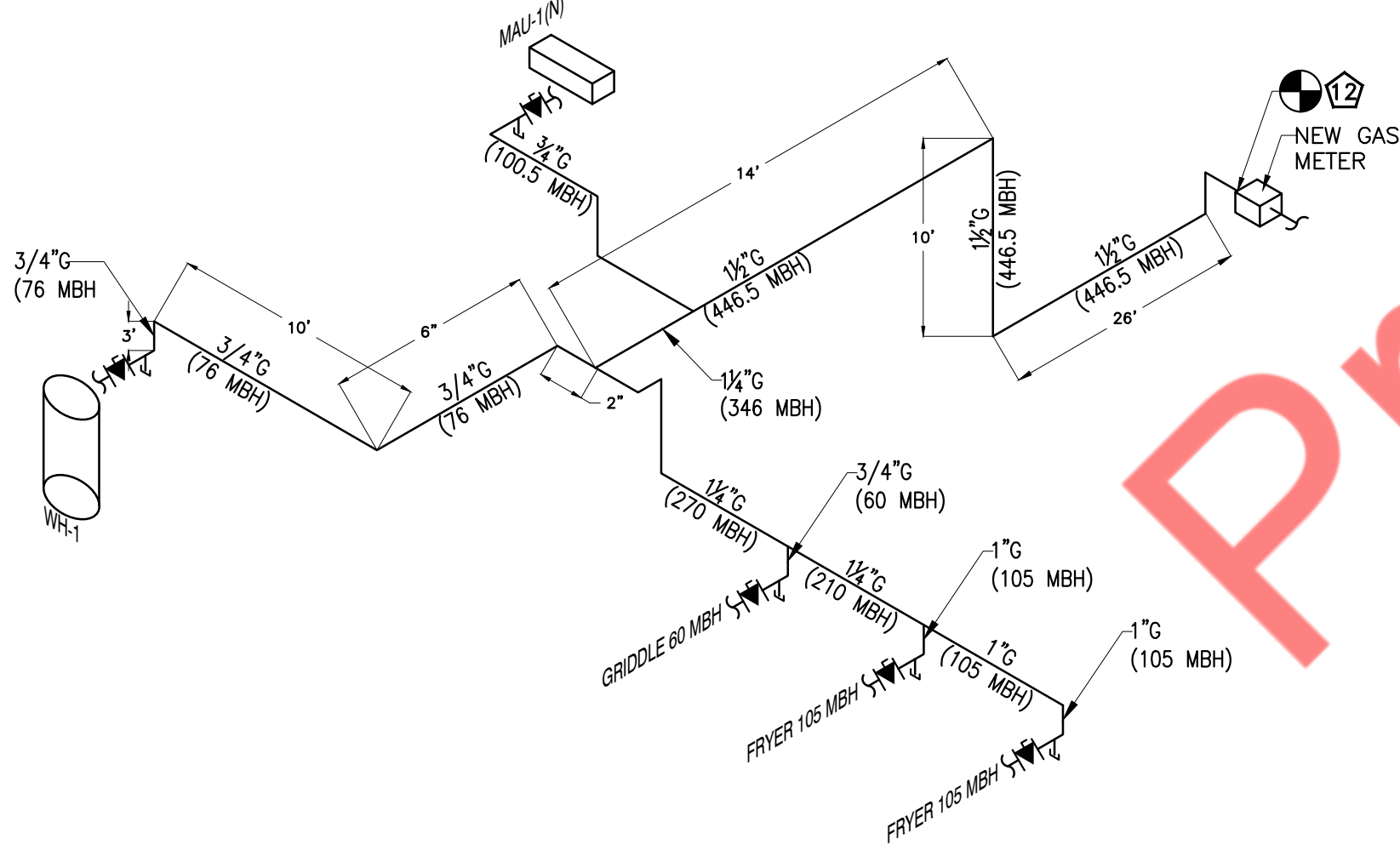
GAS SCHEDULE					
ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER	MODEL	SIZE BTU/HR.
12	1	GRIDDLE	GARLAND	XPG36	3/4" 60,000
13	2	FRYERS	GARLAND	SR142G	1" 210,000
WH-1	1	WATER HEATER	RHEEM	GHE50SU-76	3/4" 76,000
MAU-1(N)	1	MAKEUP AIR UNIT	SUNAIR	SA-A1-D 250-150	3/4" 100,500
TOTAL LOAD					446,500

GAS PIPE SIZING PER
TABLE 402.4(2) 2023 FLORIDA FUEL
GAS CODE, 8TH EDITION

EQUIVALENT LENGTH OF PIPE =
3+10+6+2+14+10+26 = 71
+ FITTINGS (+40%) = 100 FEET

NATURAL GAS PIPING SYSTEM
PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE
GAS EQUIPMENT FURNISHED BY OTHERS, AS NOTED ON
THE DRAWINGS. PROVIDE EITHER THREADED STEEL OR
MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR
WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF
VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND
GOVERNING LOCAL CODES AND AT EACH GAS
APPLIANCE CONNECTION. PROVIDE ALL TESTS, METERS,
PRESSURE REGULATOR INSPECTIONS, HANGERS AND
EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE
AND OPERATING SYSTEM.

- NOTES:
1. GAS PIPING TO BE SCHEDULE 40 STEEL PIPE W/125
CAST IRON SCREWED FITTINGS.
 2. GAS SYSTEM TO BE INSTALLED BY QUALIFIED
LICENSED CONTRACTOR.
 3. VERIFY ALL EQUIPMENT BTU'S PRIOR TO
INSTALLATION. ADJUST PIPE SIZE ACCORDING TABLE
402.4(2) 2023 FLORIDA FUEL GAS CODE, 8TH EDITION
 4. CONTRACTOR TO PROVIDE NEW 1/2" GAS PIPING AND
PROVIDE NEW GAS METER OF MINIMUM CAPACITY OF
450 MBH.
 5. COORDINATE WITH OWNER/LANDLORD FOR THE
LOCATION AND REQUIREMENT OF GAS METER.



GAS RISER

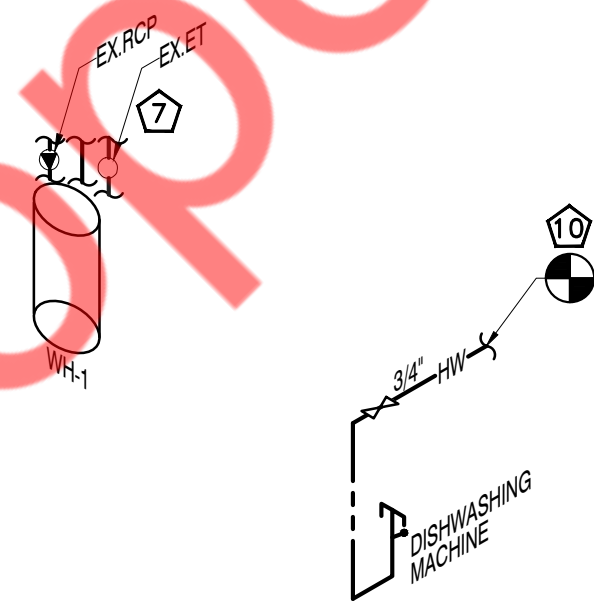
SCALE
N.T.S.

3

EXISTING RECIRCULATION PUMP SCHEDULE	
MANUFACTURER & MODEL	GRUNDFOS UPS-15-58 FC
EQUIPMENT TAG	EX.RCP
STATUS	EXISTING
GPM	V.I.F
WATER TEMP.(°F)	140
PUMP TYPE	INLINE
MHP	87 WATTS
V/PH/Hz	115/1/60
RPM	-
SERVICE FACTOR	1.0
NOTE: CONTRACTOR TO FIELD VERIFY THE CONDITION OF RECIRCULATION PUMP, IF NOT IN GOOD CONDITION THEN REPLACE IF REQUIRED.	

NEW WATER HEATER SCHEDULE	
MANUFACTURER	RHEEM
MODEL	GHE50SU-76
EQUIPMENT TAG	WH-1
STATUS	NEW
QUANTITY	1
CAPACITY	50 GALLONS
FUEL	GAS
RECOVERY	112 GPH*
MBTU	76
V/PH/Hz	110/1/60
AMPERAGE	7.5 MAX
WEIGHT (EMPTY)	212 LBS.

- NOTES:
1. * OPERATION @ 80°F TEMPERATURE RISE.
 2. INSTALLATION OF WATER HEATER TO BE MADE
AS PER MANUFACTURER RECOMMENDATIONS.
 3. CONTRACTOR TO FIELD VERIFY THE CONDITION
OF EXISTING EXPANSION TANK. IF NOT IN GOOD
CONDITION OR NOT AVAILABLE, PROVIDE NEW
EXPANSION TANK. AMTROL MODEL
THERM-X-TROL ST-3C-DD, 2 GAL AS PER LOCAL
CODE REQUIREMENTS.



WATER RISER

SCALE
N.T.S.

2

GENERAL NOTES

1. CW/HW/HWR PIPING TO BE PROVIDED WITH INSULATION AS PER
2023 FBC-ENERGY CONSERVATION CODE, NOTES (REFER
SHEET P-1)
2. PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
3. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR &
SHUT-OFF VALVES AS REQUIRED.
4. NEW WATER HEATERS DRAIN SPILLS TO THE MOP SINK.

WATER, GAS PLAN & RISER KEY NOTE

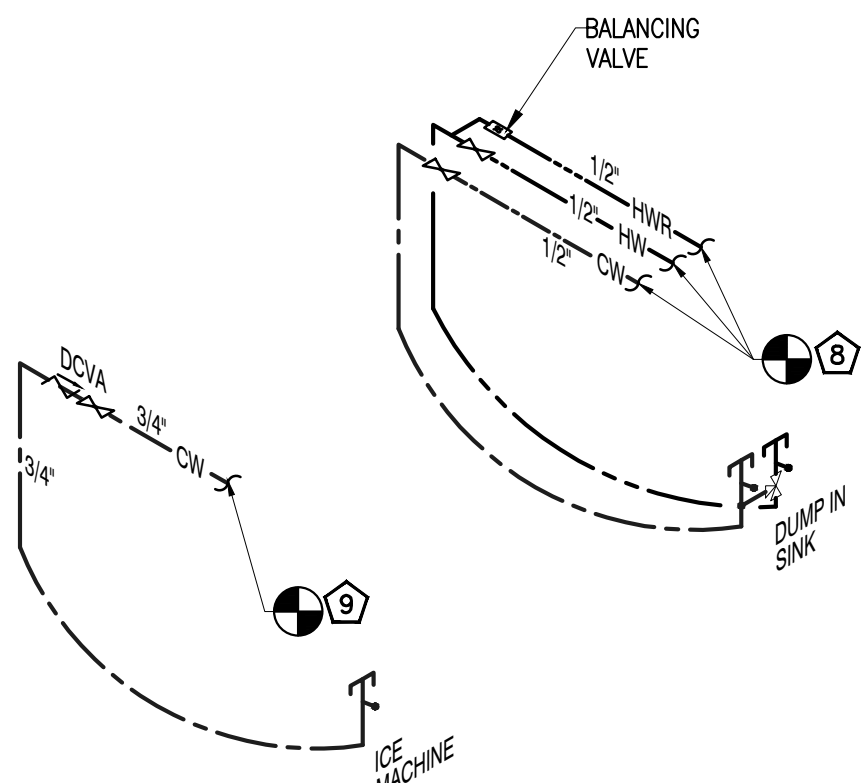
1. EXISTING WATER CLOSET TO REMAIN WITH EXISTING CW PIPING CONNECTION. ASSOCIATED
ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING
PIPING & REPLACE IF REQUIRED.
2. EXISTING LAVATORY TO REMAIN WITH EXISTING CW/HW/HWR PIPING CONNECTION,
ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF
EXISTING PIPING & REPLACE IF REQUIRED.
3. EXISTING 3-COMP SINK TO REMAIN WITH EXISTING CW/HW PIPING CONNECTION. ASSOCIATED
ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING
PIPING & REPLACE IF REQUIRED.
4. EXISTING PREP SINK TO REMAIN WITH EXISTING CW/HW PIPING CONNECTION. ASSOCIATED
ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING
PIPING & REPLACE IF REQUIRED.
5. EXISTING HAND SINK TO REMAIN WITH EXISTING CW/HW PIPING CONNECTION. ASSOCIATED
ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING
PIPING & REPLACE IF REQUIRED.
6. EXISTING MOP SINK TO REMAIN WITH EXISTING CW/HW PIPING CONNECTION. ASSOCIATED
ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING
PIPING & REPLACE IF REQUIRED.
7. EXISTING WATER HEATER TO BE REPLACED WITH NEW GAS STORAGE TYPE WATER HEATER
CONNECT EXISTING CW/HW/HWR PIPING & EXISTING RE-CIRCULATION PUMP & EXPANSION
TANK TO THE NEW WATER HEATER. CONTRACTOR TO FIELD VERIFY THE CONDITION OF THE
EXISTING PIPING, RE-CIRCULATION PUMP, EXPANSION TANK AND REPLACE/UPGRADE IF
REQUIRED.
8. EXTEND AND CONNECT NEW 1/2" CW/HW/HWR PIPING TO EXISTING CW/HW/HWR PIPING OF
ADEQUATE SIZE WITH BALANCING VALVE. CONTRACTOR TO FIELD VERIFY THE SIZE AND
LOCATION OF THE EXISTING PIPE AND UPGRADE IF REQUIRED.
9. EXTEND AND CONNECT NEW 3/4" CW PIPING TO EXISTING CW PIPING OF ADEQUATE SIZE.
CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF THE EXISTING CW PIPE AND
UPGRADE IF REQUIRED.
10. EXTEND AND CONNECT NEW 3/4" HW PIPING TO EXISTING HW PIPING OF ADEQUATE SIZE.
CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF THE EXISTING HW PIPING AND
UPGRADE IF REQUIRED.
11. CONTRACTOR TO FIELD VERIFY IF EXISTING BFP IS AVAILABLE AND IN GOOD WORKING
CONDITION. IF EXISTING BFP IS NOT AVAILABLE OR NOT IN GOOD CONDITION THEN PROVIDE
NEW.
12. CONTRACTOR TO PROVIDE NEW 1/2" GAS PIPING AND PROVIDE NEW GAS METER OF MINIMUM
CAPACITY OF 450 MBH.

FIXTURE FACTOR VALUE *

2 LAVATORY(E) @ 2	= 4
2 WATER CLOSET(E) (TANK) @ 5	= 10
2 HAND SINK @ (E) 1.4	= 2.8
1 UNDER BAR SINK(N) @ 1.4	= 1.4
1 3-COMP SINK(E) @ 4	= 4
1 PREP SINK (E) @ 1.4	= 1.4
1 MOP SINK (E) @ 3	= 3
1 DISHWASHER(N) @ 1.4	= 1.4
1 **MISC (N) @ 0.25	= 0.25
TOTAL	= 28.25

* TABLE E103.3(2) OF FLORIDA
PLUMBING CODE, 2023
(8TH EDITION)

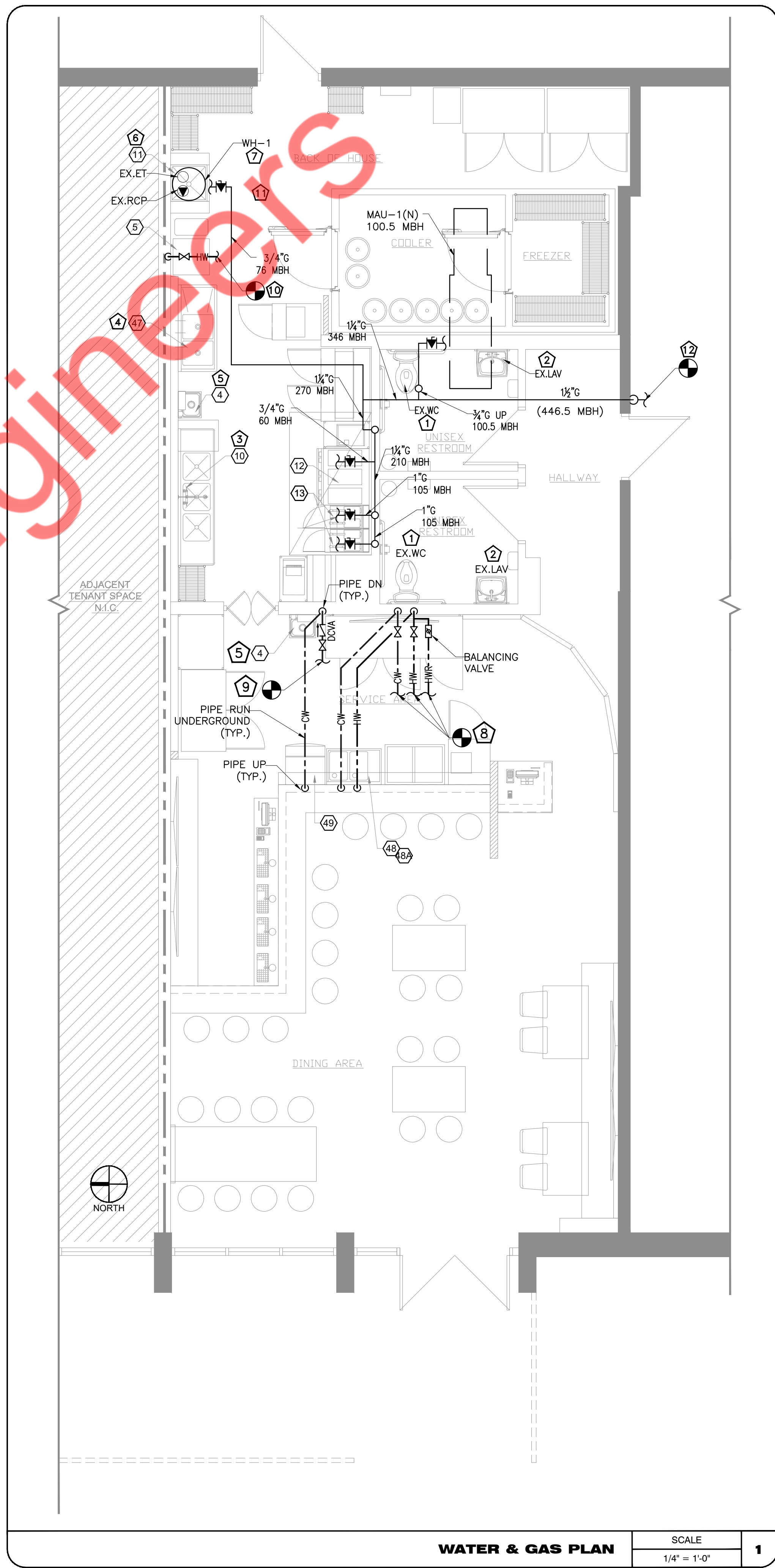
** ICE MACHINE
1-1/4" WATER DISTRIBUTION LINE AND
WATER METER SIZE REQUIRED.



WATER & GAS PLAN

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1/4" = 1'-0"

1



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WATER, GAS PLAN
& RISER

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