SCOPE OF WORK

REUSE EXISTING TWO 3.0 TON GAS HEAT ROOFTOP UNIT AND PROVIDE ONE NEW 2.0 TON HEAT PUMP SPLIT SYSTEM. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM. REUSE THE EXISTING DUCTWORK AND DIFFUSERS WHEREVER POSSIBLE IF IN GOOD OPERABLE CONDITIONS.

PROVIDE ONE NEW RESTROOM EXHAUST FANS & 1 NEW OTHER EXHAUST FAN AS SHOWN IN PLAN.

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

MECHANICAL PLAN NOTES

- REUSE EXISTING TWO 3.0 TON GAS HEAT ROOFTOP UNIT AND PROVIDE ONE NEW 2.0 TON HEAT PUMP SPLIT SYSTEM. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM. REUSE THE EXISTING DUCTWORK AND DIFFUSERS WHEREVER POSSIBLE IF IN GOOD OPERABLE CONDITIONS. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AIR DUCT CONNECTIONS. 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.
- 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
- 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.
- THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. COORDINATE LOCATION OF THERMOSTAT.
- 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.
- ALL INTERIOR AIR DUCT WITH INSULATION SHALL HAVE MINIMUM OF THICKNESS OF 1.5" R-8 INSULATION. EXTERIOR AIR DUCT TO HAVE R-8 INSULATION ACCORDING TO -2022 CECC.
- 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.
- ALL EVAPORATOR UNITS SHALL HAVE A FLOAT SWITCH TO CONTROL OVERFLOW THAT WILL AUTOMATICALLY SHUT DOWN THE RTU SYSTEM. THE DEVICE SHALL BE ATTACHED TO THE SECONDARY DRAIN OUTLET ON THE UNIT.
- ALL HVAC CONDENSATE DRAINS WILL BE PVC FULL DIAMETER OF OUTLET AND WILL
- TERMINATE IN THE NEAREST APPROVED PLACE OF DISPOSAL. ALL EQUIPMENT AND MATERIALS WILL BE INSTALLED ACCORDING TO THE

MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO THE BEST PRACTICE.

- TESTING AND BALANCING SHALL BE DONE 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.
- 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
- ALL HVAC CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL 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. PAY SPECIAL ATTENTION TO THE RESPONSIBILITY SCHEDULE. WORK DESIGNATED ON SCHEDULE SHALL BE CONSIDERED INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.
- 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.
- 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.
- 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
- 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.
- 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.
- 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 WITH INTERNAL INSULATION.
- G.C. SHALL CONTRACT LANDLORD-APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOFING WARRANTY.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 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.
- M. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.

HEAT PUMP SPLIT SYSTEM SCHEDULE **UNIT TAG** AC-3(N) UNIT TYPE HEAT PUMP

| | ONII ITE | HEAT FOIVIF | | | | | |
|----------------------|------------------------------------|----------------------------|--|--|--|--|--|
| | AREA SERVED | REFER PLAN | | | | | |
| | SUPPLY AIR (CFM) | 800 | | | | | |
| | OUTSIDE AIR (CFM) | 200 | | | | | |
| ΑT | STATIC PRESS. (E.S.P INCH OF W.C.) | 0.5 | | | | | |
| AIR HANDLER DATA | MANUFACTURER | CARRIER (OR EQUIVALENT) | | | | | |
| | MODEL NO. | FX4DNF031L (OR EQUIVALENT) | | | | | |
| HAN | WEIGHT, LBS | 155 | | | | | |
| AIR | VOLTS/PH/HZ | 208-230/1/60 | | | | | |
| | MCA (A) | 5.1 | | | | | |
| | MOCP (A) | 15.0 | | | | | |
| | UNIT TAG | CU-3(N) | | | | | |
| | AIR HANDLER SERVED | AC-3(N) | | | | | |
| | CAPACITY | 2.0 TR | | | | | |
| | REFRIGERANT | R410A | | | | | |
| ⋖ | TOT. COOLING CAP. (MBH) | 21.6 | | | | | |
| DAT | COOLING SENS. CAP. (MBH) | 17.2 | | | | | |
| CONDENSING UNIT DATA | TOT. HEATING CAP. (MBH) | 16.3 | | | | | |
| NGL | COMPRESSOR RLA | 11.1 | | | | | |
| IISN: | OUTDOOR FAN FLA | 0.6 | | | | | |
| NDE | VOLTS/PH/HZ | 208-230/1/60 | | | | | |
| 8 | M.C.A. / MAX. CKT. BRKR. AMPS | 14.5 / 25 | | | | | |
| | MANUFACTURER | CARRIER (OR EQUIVALENT) | | | | | |
| | MODEL | 25SCA524A (OR EQUIVALENT) | | | | | |
| | SEER | 16.0 | | | | | |
| | HSPF | 9.0 | | | | | |

WEIGHT, LBS **HEAT PUMP SPLIT SYSTEM NOTES:-**

PROVIDE DISCONNECT SWITCH & NON-POWERED GFI OUTLET. 2. COORDINATE FINAL LOCATION OF INDOOR AND OUTDOOR UNIT WITH ARCHITECT/OWNER/LANDLORD.

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FXHAUST FAN

OPPOSED BLADE DAMPER

DUCT SMOKE DETECTOR

TEMPERATURE SENSOR

ROUND DUCT DIAMETER

CUBIC FEET/ MINUTE

SUPPLY AIR

RETURN AIR

SUPPLY GRILLE

REMOTE SENSOR

PROGRAMMABLE THERMOSTAT

WITH LIGHT

- 3. SUPPLY AIR CFM BASED ON HIGH SPEED.
- 4. REFRIGERANT R410A SHALL BE PROVIDED.
- 5. PROVIDE ALL ASSOCIATED ACCESSORIES. 6. ALL REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS
- RECOMMENDATIONS. . CONTRACTOR SHALL PROVIDE A LONG LINE SET FOR REFRIGERANT PIPING IN THE EVENT THAT TOTAL REFRIGERANT LENGTH EXCEEDS THE MANUFACTURER'S STANDARD RECOMMENDED LENGTH. CONTRACTOR TO
- FIELD VERIFY THE EXACT TOTAL REFRIGERANT LENGTH AND COORDINATE WITH THE MANUFACTURER PRIOR ORDERING UNIT 8. PROVIDE DRAIN PAN WITH WATER LEAK DETECTOR.
- 9. VERIFY ALL DATA WITH MANUFACTURER PRIOR TO ORDERING
- 10.PROVIDE CONDENSATE DRAIN PUMP IF REQUIRED. ROUTE CONDE<mark>NSA</mark>TE DRAIN FROM AC - 3(N) TO THE NEAREST APPROVED PLACE OF DISPOSAL. COORDINATE WITH PLUMBING CONTRACTOR.
- 11. CONDENSING UNIT TO BE SELECTED AT 105°F AMBIENT CONDITION. 12.PROVIDE ACCESS DOOR FOR THE INDOOR UNIT IN COORDINATION WITH
- ARCHITECT.

| ROOF TOP UNIT SCHEDULE | | | | | | | | | | |
|------------------------|----------------------|----------------------|--|--|--|--|--|--|--|--|
| UNIT TAG | AC-1(E) | AC-2(E) | | | | | | | | |
| UNIT TYPE | GAS HEAT | GAS HEAT | | | | | | | | |
| MANUFACTURER | TRANE (V.I.F) | TRANE (V.I.F) | | | | | | | | |
| MODEL | 4YCC3036 (V.I.F) | 4YCC3036 (V.I.F) | | | | | | | | |
| STATUS | EXISTING | EXISTING | | | | | | | | |
| LOCATION | ROOF | ROOF | | | | | | | | |
| TOTAL CAPACITY | 3.0 TON (V.I.F) | 3.0 TON (V.I.F) | | | | | | | | |
| TOTAL COOLING MBH | S.A.E | S.A.E | | | | | | | | |
| TOTAL SENSIBLE MBH | S.A.E | S.A.E | | | | | | | | |
| SEER | S.A.E | S.A.E | | | | | | | | |
| HEATING MBH (INPUT) | 64.0 (V.I.F) | 64.0 (V.I.F) | | | | | | | | |
| HEATING MBH (OUT.) | 51.5 (V.I.F) | 51.5 (V.I.F) | | | | | | | | |
| THERMAL EFF (%) | S.A.E | S.A.E | | | | | | | | |
| SUPPLY AIR (CFM) | 1200 | 1200 | | | | | | | | |
| OUTDOOR AIR (CFM) | 325 | 115 | | | | | | | | |
| VOLTAGE/PHASE/HZ | 208-230/3/60 (V.I.F) | 208-230/3/60 (V.I.F) | | | | | | | | |
| MCA (A) | 17.2 (V.I.F) | 17.2 (V.I.F) | | | | | | | | |
| MOCP (A) | 25.0 (V.I.F) | 25.0 (V.I.F) | | | | | | | | |
| ESP (IN. OF H2O) | S.A.E | S.A.E | | | | | | | | |
| WEIGHT (LBS) | S.A.E | S.A.E | | | | | | | | |

ROOF TOP LINIT SCHEDLILE

NOTES FOR EXISTING RTU:

- . EXISTING RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE REUSED. S.A.E : SAME AS EXISTING. V.I.F : VERIFY IN FIELD
- 100% RATED CAPACITIES / LOADS. INFORM TO DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE PRIOR TO CONSTRUCTION.

3. CONTRACTOR TO FIELD VERIFY IF ALL RTU ARE WORKING AT THEIR

- CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF UNIT ON SITE.
- 5. CONTRACTOR TO BALANCE OUTSIDE AIR & RETURN AIR DAMPERS ON EXISTING RTU TO MATCH VALUES MENTIONED IN ABOVE TABLE.
- CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT ETC. PRIOR TO ORDERING AND

FAN SCHEDULE KEF-1(N) EF-1(N) NEW NEW STATUS QUANTITY MANUFACTURER GREENHECK **GREENHECK** SP-A710 SP-A125 MODEL 450 @ 0.5 CFM (ESP IN W.C.) (ESP IN W. **AMPS** ACCESSORIES WEIGHT (LBS) 115/1/60 VOLT / PH / 1,2,3. ROVIDE DISCONNECT SWITCH.

PROVIDE BACK DRAFT DAMPER. INTERLOCK WITH AC-3(N). INTERLOCK WITH AC-2(E).

DIFFUSER SCHEDULE TITUS MANUFACTURER TITUS TITUS TITUS DESIGNATION Α1 A2 SUPPLY/ SUPPLY SUPPLY RETURN MODEL 300 FS FL 15 S.A.E MOUNTING DUCT CEILING WALL S.A.E LOCATION AS SHOWN AS SHOWN AS SHOWN FACE SIZE 24" X 24" AS SHOWN | AS SHOWN | S.A.E **NECK SIZE** S.A.E TABLE - A FRAME TYPE FLANGED FLANGED S.A.E **FLANGED** VOLUME VOLUME VOLUME VOLUME ACCESSORIES DAMPER DAMPER DAMPER DAMPER

1. MAX. NC LEVEL 30 OR LESS. 2. PROVIDE SQUARE TO ROUND NECK ADAPTOR. 3. COORDINATE WITH ARCHITECT FOR PAINT AND FINISH. 4. PROVIDE 4-WAY AIR THROW PATTERN UNLESS NOTED OR INDICATED. 5. PROVIDE INSULATED BACKS ON ALL DIFFUSERS.

6. S.A.E : SAME AS EXISITNG

VENTILATION REQUIREMENTS PER AS PER CALIFORNIA ENERGY CODE 2022 - TABLE 120.1-A & B

| ENERGI CO | DE 2022 - TABLE 120.1-A & 1 | D |
|---|----------------------------------|---------------------------------|
| PREP KITCHEN | 638 SQ. FT. X 0.15 CFM/SQ. FT. = | 96 CFM |
| OFFICE | 89 SQ. FT. X 0.15 CFM/SQ. FT. = | 14 CFM |
| SALES | 100 SQ. FT. X 0.25 CFM/SQ. FT. = | 25 CFM |
| PRIVATE DINING | 191 SQ. FT. X 0.5 CFM/SQ. FT. = | 96 CFM |
| DINING | 786 SQ. FT. X 0.5 CFM/SQ. FT. = | 393 CFM |
| OUTSIDE AIR REQUIRED | | 624 CFM |
| SINGLE USER ACC. RR | 70 CFM PER FIXTURE | 70 CFM |
| PREP KITCHEN | 638 SQ. FT. X 0.7 CFM/SQ. FT. = | 447 CFM |
| EXHAUST AIR REQUIRED | | 517 CFM |
| OUTSIDE AIR THROUGH AC-1(E) OUTSIDE AIR THROUGH AC-2(E) OUTSIDE AIR THROUGH AC-3(N) | | 325 CFM 115 CFM 200 CFM |
| AIR BALANCE O/A PROVIDED EF-1(N) KEF-1(N) | | +640 CFM -70 CFM -450 CFM |
| BUILDING PRESSURE (BAROMETF | RIC RELIEF) | +120 CFM |
| NOTES- | · | |

1. CONTRACTOR TO ADJUST MOTORIZED/MANUAL DAMPER ON FRESH AIR TAP TO \mid

PROVIDE OUTSIDE AIR AS MENTIONED IN ABOVE TABLE.

NECK SIZE TABLE - A **NECK SIZE** CFM RANGE 0-100 Ø6" 101-200 Ø8" 201-400 Ø10" Ø12" 401-600

TURLOCK, CA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF CURRENT CA BUILDING CODES AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183. 2. VENTILATION FOR ALL AREA SHALL COMPLY WITH - 2022 CEC -120.1
- 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.
- SMOKE DETECTOR SHALL MEET UL268A. 5. TEST OF MECHANICAL SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTION OF THE - 2022 CMC:
- A. VENTILATION SYSTEM BALANCING 2022 CMC -407.3
- 6. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
- A. STANDARD OF HEATING 2022 CMC -1203 B. DUCT CONSTRUCTION AND INSTALLATION - 2022 CMC -603
- C. AIR INTAKES, EXHAUSTS AND RELIEF 2022 CMC -502
- D. AIR FILTER 2022 CMC -401
- E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROL FOR AIR DISTRIBUTION SYSTEM 2022 CMC -606
- MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- 8. 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
- 9. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
- 10. 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.
- 11. VENTILATION SYSTEM SHALL BE BALANCED TO MAINTAIN THE MINIMUM VENTILATION AIRFLOW RATE AS SHOWN IN VENTILATION REQUIREMENT TABLE. THE SYSTEM SHALL BE BALANCED BY APPROVED METHOD - CONTRACTOR TO SUBMIT THE AIR-BALANCE REPORT TO INSPECTOR.

HVAC PIPING INSULATION NOTES

- ALL INSULATION MATERIALS, INCLUDING JACKETS, FACING, ADHESIVE, COATINGS, AND ACCESSORIES ARE TO BE FIRE HAZARD RATED AND LISTED BY UNDERWRITERS LABORATORIES, INC. USING STEINER TUNNEL TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS, STANDARD UL 723 (ASTM E-84), (ASA A2.5-1963). FLAMESPREAD: MAXIMUM 25. FUEL CONTRIBUTED AND SMOKE DEVELOPED: MAXIMUM 50. FLAMEPROOFING TREATMENTS SUBJECT TO DETERIORATION FROM MOISTURE OR HUMIDITY ARE NOT ACCEPTABLE.
- EXPOSED: INDOOR DUCTS, PIPING OR EQUIPMENT LOCATED IN MECHANICAL EQUIPMENT ROOMS AND IN AREAS WHICH WILL BI
- VISIBLE WITHOUT REMOVING CEILINGS OR OPENING ACCESS PANELS. CONCEALED: INDOOR PIPING OR EQUIPMENT WHICH IS NOT EXPOSED.

| 4. | OUTDOOR: PIPING OR EQUIPMENT WHICH IS EXPOSED TO THE WEATHER. | | | | | | | | | | |
|----|---|--|---|--------------------------|---------------------------------|------------|-------------|---------|-----|---|--|
| | MINIMUM REFRIGERANT PIPE INSULATION THICKNESS (IN.) | | | | | | | | | | |
| | | FLUID | INSULATION CON | IDUCTIVITY | NOMINAL PIPE OR TUBE SIZE (IN.) | | | | | | |
| | | OPERATING TEMP. RANGE & USAGE (°F) | CONDUCTIVITY BTU.IN./(H.FT ² .°F) | MEAN RATING TEMP., °F | <1 | 1 TO<1-1/2 | 1-1/2 TO <4 | 4 TO <8 | ≥8 | | |
| | | 105 — 140 | 0.22 — 0.28 | 100 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 | ì | |
| | | 40 — 60 | 0.21 — 0.27 | 75 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 | 1 | |
| | | < 40 | 0.20 — 0.26 | 50 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 | ı | |

MECHANICAL SYMBOLS

EXHAUST FAN SUPPLY OR OUTSIDE AIR DUCT RETURN OR EXHAUST AIR DUCT INSULATED RIGID DUCTWORK

DUCT TRANSITION MANUAL VOLUME DAMPE

> FLEXIBLE DUCTWORK R-6.0 OOF MOUNTED

SUPPLY DIFFUSER

SCHEDULE

REFER TO DIFFUSER

FOR SPECIFICATIONS

--- CD - CONDENSATE PIPING ORIZED DAMPER

BACK DRAFT DAMPER

GENERAL CONTRACTOR

RETURN DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS

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

THERMOSTATIC NOTES

- 120.2 (a) THERMOSTATIC CONTROLS FOR EACH ZONE. THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH SPACE-CONDITIONING ZONE OR DWELLING UNIT SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE AND THAT MEETS THE APPLICABLE REQUIREMENTS OF SECTION 120.2(b). AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE THERMOSTATIC CONTROLS IF IT COMPLIES WITH ALL APPLICABLE REQUIREMENTS FOR EACH THERMOSTATIC CONTROL. EXCEPTION TO SECTION 120.2(a): AN INDEPENDENT PERIMETER HEATING OR COOLING SYSTEM MAY SERVE MORE THAN ONE ZONE WITHOUT INDIVIDUAL THERMOSTATIC CONTROLS IF:
- 1.ALL ZONES ARE ALSO SERVED BY AN INTERIOR COOLING SYSTEM; AND
- 2.THE PERIMETER SYSTEM IS DESIGNED SOLELY TO OFFSET ENVELOPE HEAT LOSSES OR GAINS; AND
- 3.THE PERIMETER SYSTEM HAS AT LEAST ONE THERMOSTATIC CONTROL FOR EACH BUILDING ORIENTATION OF 50FEET OR MORE; AND 4.THE PERIMETER SYSTEM IS CONTROLLED BY AT LEAST ONE THERMOSTAT LOCATED IN ONE OF THE ZONES SERVED BY THE SYSTEM.

- B. 120. 2(d) HEAT PUMP CONTROLS. ALL HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC RESISTANCE HEATERS SHALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH SECTION 110.2(b).
- C. 120.2 (e) SHUT-OFF AND RESET CONTROLS FOR SPACE-CONDITIONING SYSTEMS. EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH THE FOLLOWING:
- . THE CONTROL SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NON-USE AND SHALL HAVE:
- a. AN AUTOMATIC TIME SWITCH CONTROL DEVICE COMPLYING WITH SECTION 110.9(c), WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF
- b. SYSTEM FOR UP TO 4 HOURS; OR c. AN OCCUPANCY SENSOR; OR
- d. 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED
- EXCEPTION TO SECTION 120.2(e)1: MECHANICAL SYSTEMS SERVING RETAIL STORES AND ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, CHURCHES AND THEATERS EQUIPPED WITH 7-DAY PROGRAMMABLE TIMERS.
- 2. THE CONTROL SHALL AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN: a. A SETBACK HEATING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL HEATING ;AND
- EXCEPTION TO SECTION 120.2(e)2A: THERMOSTAT SETBACK CONTROLS ARE NOT REQUIRED IN NONRESIDENTIAL BUILDINGS IN AREAS WHERE THE WINTER MEDIAN OF EXTREMES OUTDOOR AIR TEMPERATURE DETERMINED IN ACCORDANCE WITH SECTION 140.4(b)3 IS GREATER THAN 32°F.
- b. A SETUP COOLING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL COOLING EXCEPTION TO SECTION 120.2(e)2B: THERMOSTAT SETUP CONTROLS ARE NOT REQUIRED IN NON-RESIDENTIAL BUILDINGS IN AREAS WHERE THE SUMMER DESIGN DRY BULB 0.5 PERCENT TEMPERATURE DETERMINED IN ACCORDANCE WITH SECTION 140.4(b)3 IS LESS THAN 100°F.
- D. 120.2 (f) DAMPERS FOR AIR SUPPLY AND EXHAUST EQUIPMENT. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT
- AUTOMATICALLY CLOSE UPON FAN SHUTDOWN. EXCEPTION 1 TO SECTION 120.2(f): EQUIPMENT THAT SERVES AN AREA THAT MUST OPERATE CONTINUOUSLY.
- EXCEPTION 2 TO SECTION 120.2(f): GRAVITY AND OTHER NON-ELECTRICAL EQUIPMENT THAT HAS READILY ACCESSIBLE MANUAL DAMPER CONTROLS.
- EXCEPTION 3 TO SECTION 120.2(f): AT COMBUSTION AIR INTAKES AND SHAFT VENTS.

EXCEPTION 4 TO SECTION 120.2(f): WHERE PROHIBITED BY OTHER PROVISIONS OF LAW.

PROFESSIONAL SEAL

VISIONS DATES

CITY CMNTS.

HEALTH CMNTS. 10/23/202

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PROJECT

ISSUE DATE: 09-05-24 PROJECT #:

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> **HVAC NOTES** & SCHEDULES

VITALIT

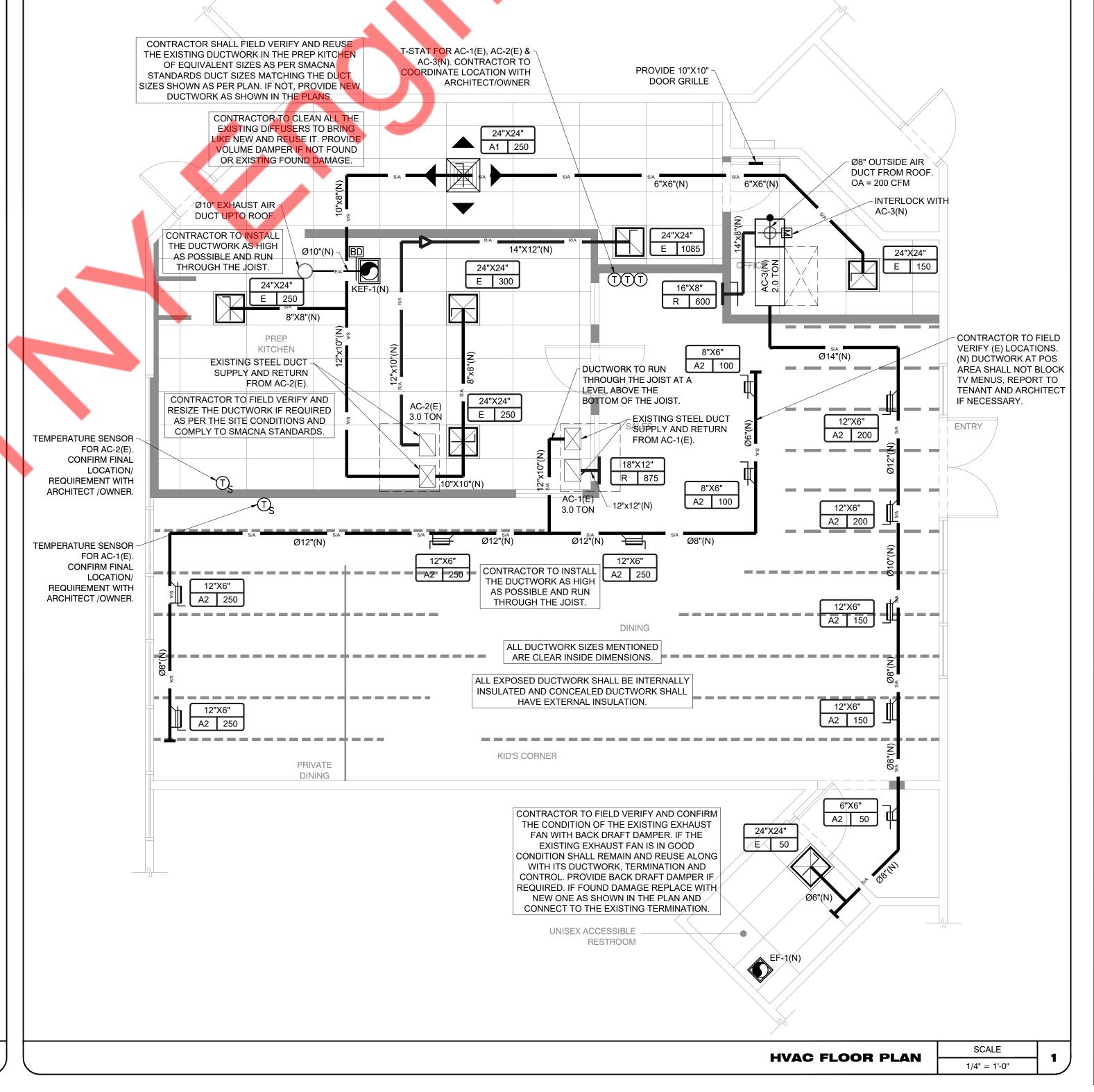
EVISIONS DATES: CITY CMNTS. 10/18/2024 HEALTH CMNTS. 10/23/2024

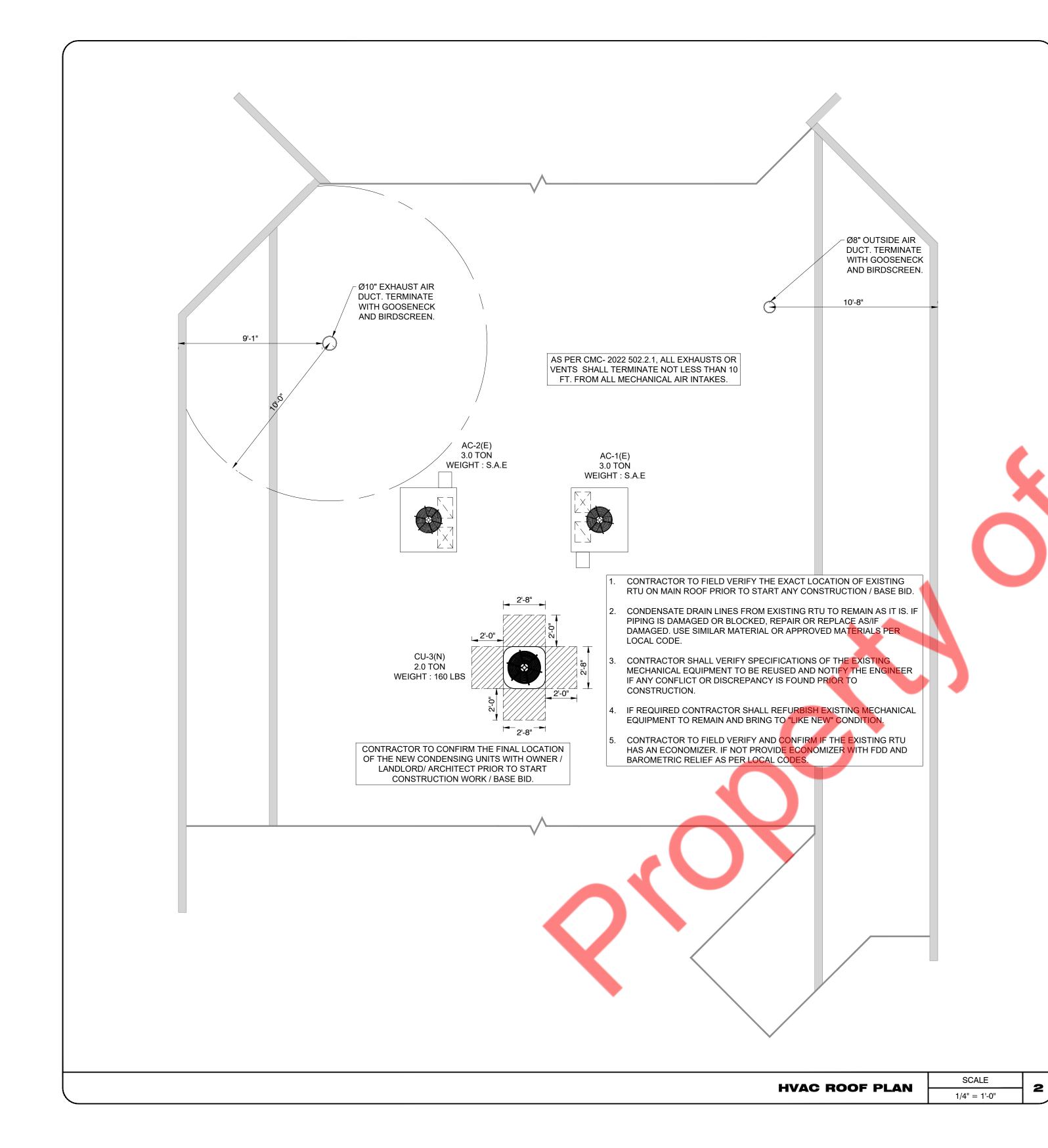
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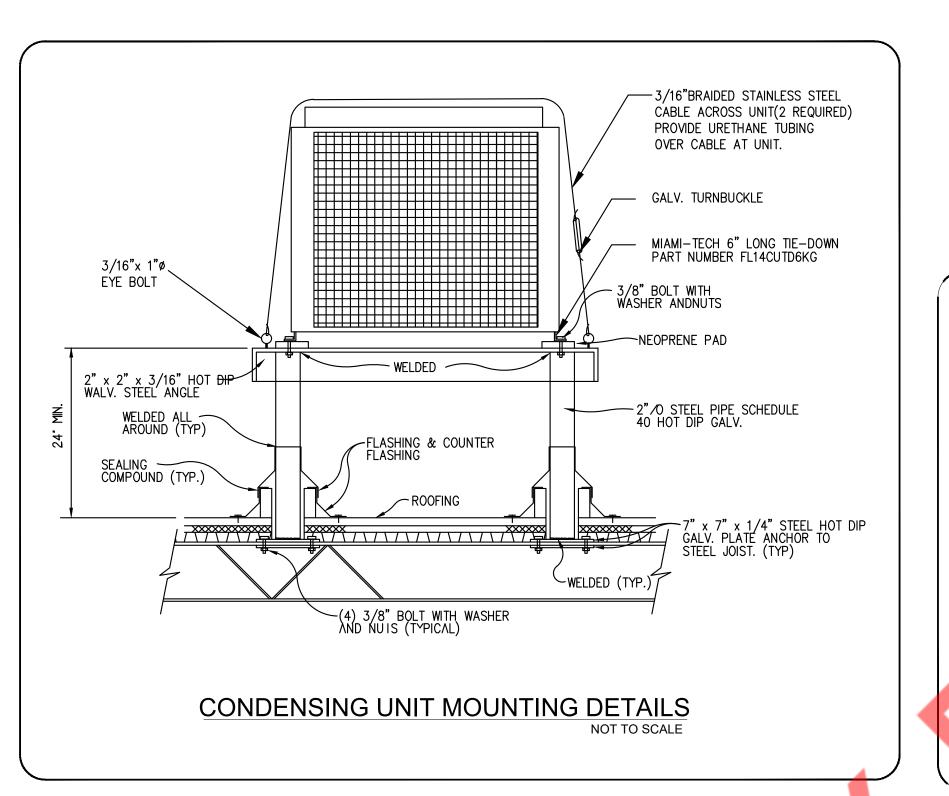
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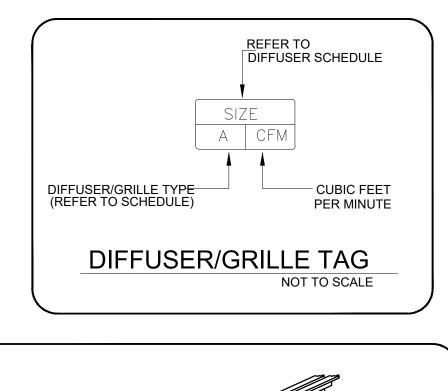
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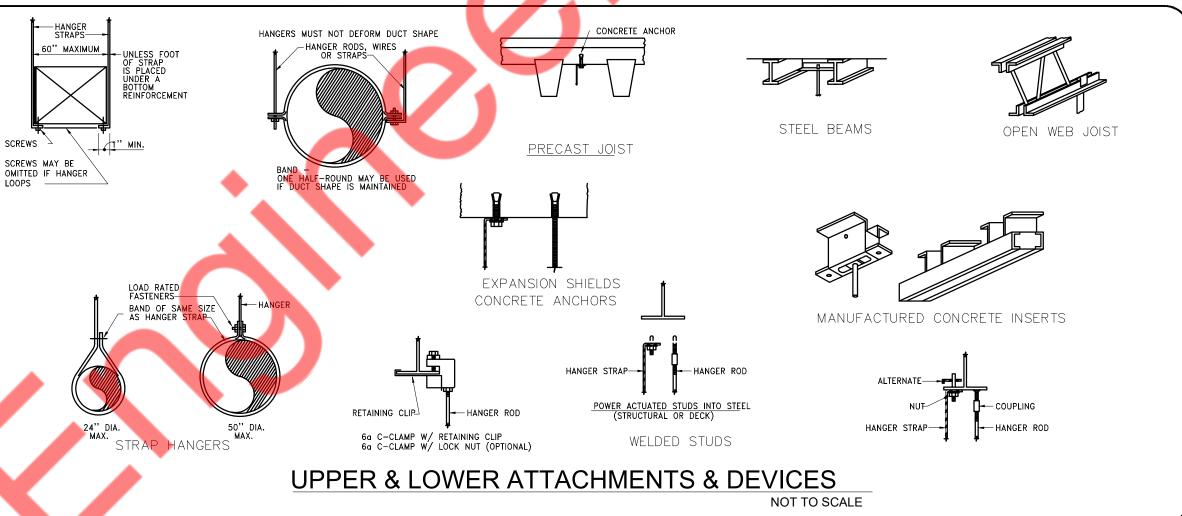
HVAC FLOOR & ROOF PLANS

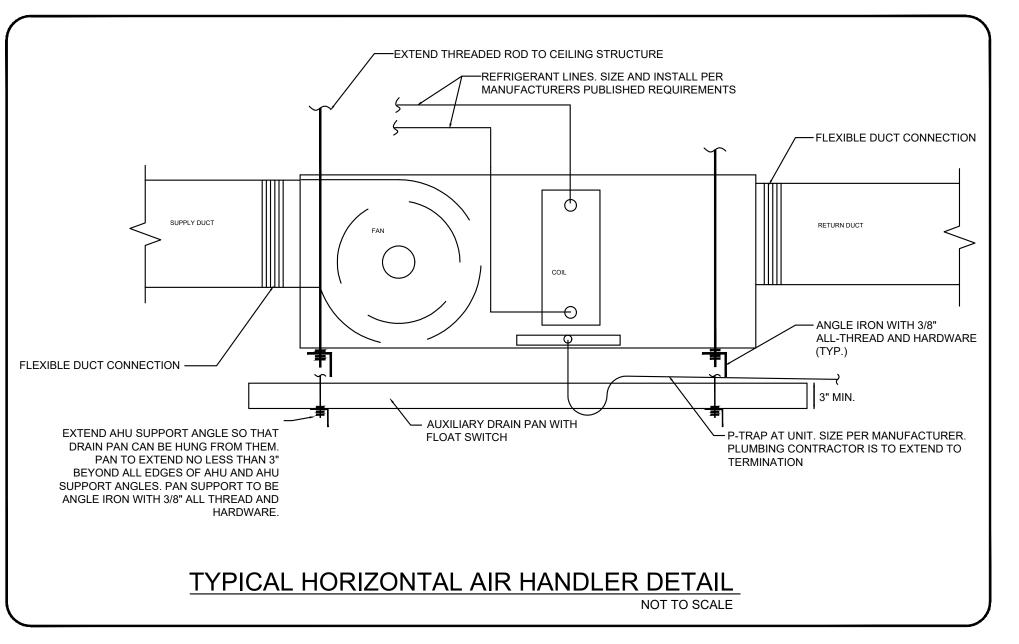


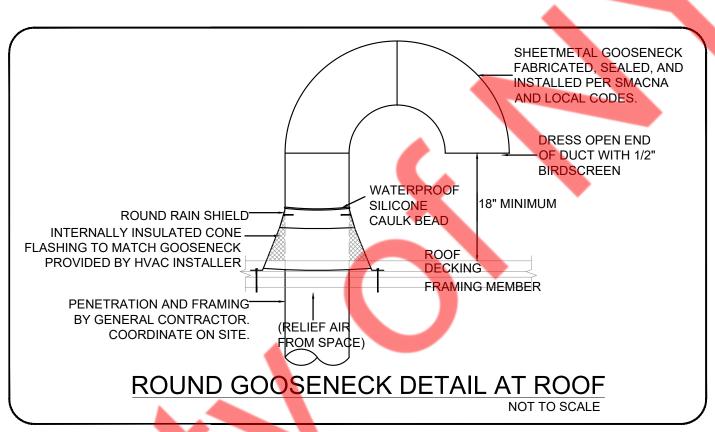


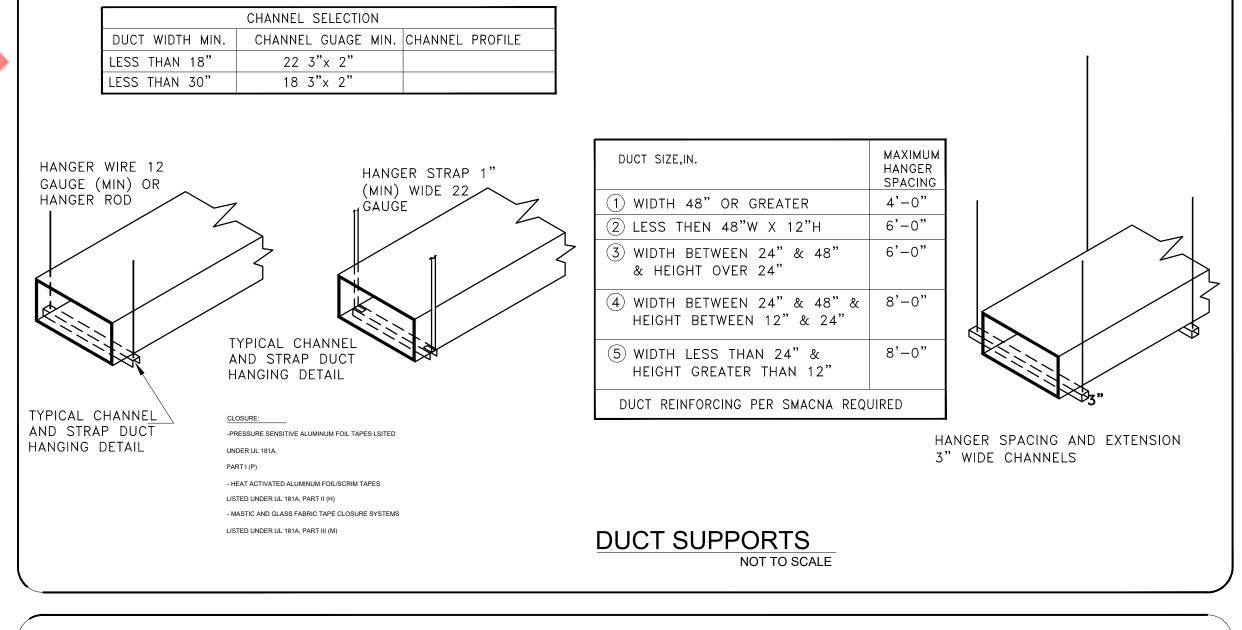


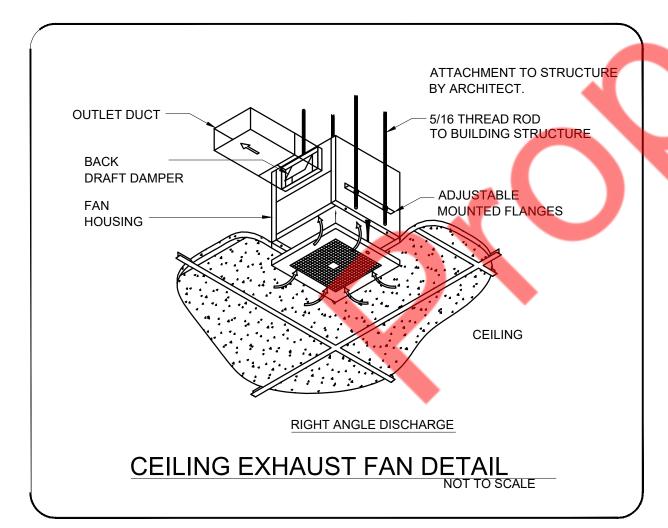


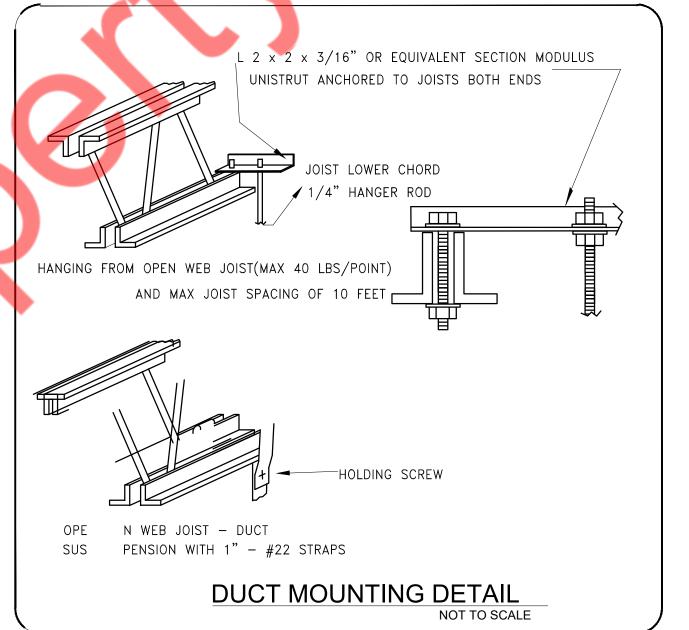


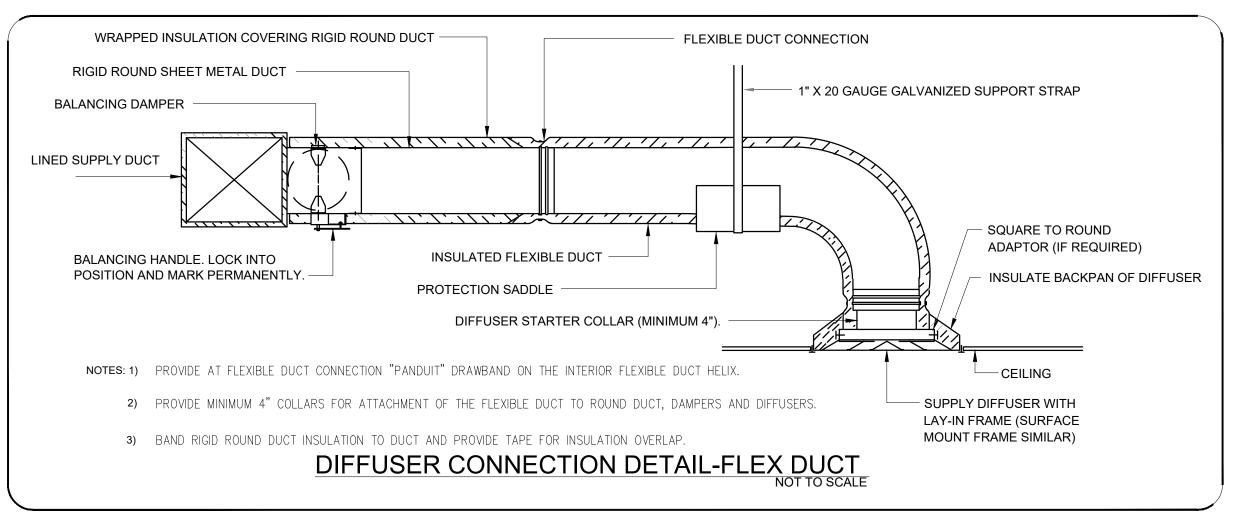












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PROJECT

EVISIONS DATES: CITY CMNTS. 10/18/2024 HEALTH CMNTS. 10/23/202

VITALITY

PROFESSIONAL SEAL

ISSUE DATE: 09-05-24 PROJECT #:

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MECHANICAL **DETAILS**

M-3

SCOPE OF WORK

- REUSE THE EXISTING 200A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE FEEDER FOR THE PROJECT SPACE
- REUSE THE EXISTING 200A, 120/208V, 3-PHASE ELECTRICAL METER AND BREAKER SWITCH FOR THE PROJECT SPACE. 3. REUSE 200A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" (NAME TO VERIFY ON FIELD) FOR THE PROJECT SPACE.
- 4. PROVIDE NEW 100A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B" FOR THE PROJECT SPACE. 5. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE $\,$ SPACE INCLUDING WIRING FOR VENTILATION EQUIPMENT.
- COORDINATE WITH G.C FOR LOW VOLTAGE WIRING.
- 6. ELECTRICAL CONTRACTOR TO COORDINATE WITH THE MECHANICAL AND PLUMBING CONTRACTOR FOR THE POWER REQUIREMENTS OF THE RESPECTIVE DEVICES/EQUIPMENT.

ELECTRICAL PLAN NOTES

- ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
- CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW 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 35. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
- 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 37. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. 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.
- OF THE NATIONAL ELECTRIC CODE ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
- 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.
- O. 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.
- 14. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS
- TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC. 15. SEPARATE PERMIT REQUIRED FOR SIGNAGE.

BRIDAL RINGS OR "J" HOOKS REQUIRED.

- GENERAL CONTRACTORS IS REQUIRED. 7. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
- 8. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL 48. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF. CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN
- 9. 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 51. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. ALL ITEMS FOR A COMPLETE FLECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER
- 21. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS IN RIGHT ANGLES TO THE BUIDING STRUCTURE. DO NOT LOOP EXCESS REQUIRED BY THE N.E.C. OR LOCAL CODES.
- 22. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE
- 23. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL
- 24. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID
- INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.

- 25 FLECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
- 1 26. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL 1 57. 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
- 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.
- 1. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.

PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.

32. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER

- MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS | 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.
- ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE 34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT
 - PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
 - 36. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN
 - UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
 - 38 ALL LIGHT SWITCHES TO BE AT 42" A F.F.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION 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 FLECTRICAL CONTRACTOR
 - 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
 - 45. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
- 6. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH 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.

(6'-0" OR LESS).

- 49. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO I
- 50. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO
- FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY
- 52. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK
- 53. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE
- 54. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN
- COMPLIANCE WITH NEC AND UL REQUIREMENTS. 55. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.
- 56. 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN LIT DURING ALL MALL BUSINESS HOURS.
- 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
- 58. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
- 59. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.

GENERAL LIGHTING NOTES

- A. WHERE LIGHT FIXTURE IS FOLLOWED BY "NL", THIS FIXTURE IS DESIGNATED AS A NIGHT LIGHT AND SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR.
- B. UPPER CASE LETTER NEXT TO LIGHT FIXTURE DENOTES FIXTURE TYPE AND LOWER CASE LETTER DENOTES SWITCHING SCHEME.
- C. ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR.

ELECTRICAL LEGEND

| SYMBOL | DESCRIPTION |
|-----------------------|--|
| | EXHAUST FAN |
| J | JUNCTION BOX |
| | BATTERY BACK UP EXIT LIGHT |
| <u></u> | BATTERY BACK UP EMERGENCY LIGHT |
| \$ | WALL SWITCH (SINGLE, DOUBLE,) |
| \$ \$ ₃ | WALL SWITCH (3 WAY, 4 WAY) |
| \$ _⊤ | WALL SWITCH (TIMER) |
| \$ _T | OCCUPANCY SENSOR WALL SWITCH |
| Θ | SINGLE RECEPTACLE |
| € | DUPLEX RECEPTACLE |
| ⊕ -USB | DUPLEX RECEPTACLE WITH USB PROVISSION |
| ₽ | DUPLEX RECEPTACLE, 46" TO AFF AT KITCHEN, BATHS AND TOPS |
| • | 230 VOLT RECEPTACLE |
| | QUADRUPLEX RECEPTACLE |
| lue | FLOOR MOUNTED. FLUSH DUPLEX RECEPTACLE |
| ⊕ | FLOOR MOUNTED. FLUSH QUAD. RECEPTACLE |
| | FLOOR MOUNTED. FLUSH 230 VOLT RECEPTACLE |
| CL | CEILING MOUNTED DUPLEX RECEPTACLE |
| | ELECTRICAL PANEL |
| | DISCONNECT SWITCH |
| _≥ | TELEVISION OUTLET |
| — | TELEPHONE OUTLET |
| | TELEPHONE/DATA OUTLET |
| H | DATA OUTLET |
| | FLOOR MTD. FLUSH TELEPHONE/DATA OUTLET |
| 1/1/2 | QUAD. DATA OUTLET RJ45 |
| OUAD OAND | |

ROOF TOP UNIT=R.T.U

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. KITCHEN EXHAUST FAN = KEF EXHAUST FAN=EF RECIRCULATION PUMP=RCP WATER HEATER= WH AUTHORITY HAVING JURISDICTION= A.H.J.

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.

BUILDING EXTERIOR

-EXISTING

LIGHTING FIXTURE SCHEDULE

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

COORDINATE EXACT CONTROL REQUIREMENTS WITH OWNER

VENDOR. BASE BID ACCORDINGLY.

| SYMBOL | TYPE | DESCRIPTION | MANUFACTURER | CATALOG NUMBER | VOLT | LAMP WATTAGE | QUANTITY | TOTAL WATTAGE | MOUNTING | LIGHT FIXTURE SCHEDULE NOTES: |
|------------------|------|-------------------------------|----------------------------------|--|------|----------------|----------|------------------|-----------|---|
| | Α | SUSPENDED PENDANT LIGHT | INTENSE LIGHTING | SS6G2C | 120 | 13 WATTS | 29 | 377 WATTS | SUSPENDED | REFER TO REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE |
| • | В | LARGE PENDANT CEILING LAMP | CAPITAL LIGHTING FIXTURE COMPANY | ARCHER 4-LIGHT PENDENT 344642WK 24" W x 14" H | 120 | 15 WATTS (MAX) | 4 | 60 WATTS (MAX) | SUSPENDED | INFORMATION ON COLORS AND TRIMS REQUIRED |
| \bigoplus | С | PENDANT LIGHTING | LITFAD | GLOBE PENDANT CELING LIGHT MACARON PURPLE #22232483 | 120 | 40 WATTS | /ATTS 8 | 320 WATTS | SUSPENDED | (*) EXISTING FIXTURES ARE ACCEPTABLE. IF THEY NEED TO BE REPLACED, REPLACE W/ EXACT MATCH OR MATCH SCHEDULE |
| | D | 2x4 LAY-IN LED LIGHT | WILLIAMS | 50GS24-LEDUT35/840F AF 12125- DG - EQCLIPS- DIM- UNV | 120 | 34 WATTS | 14 | 476 WATTS | RECESSED | SUBSTITUTIONS TO THE ABOVE FIXTURE SCHEDULE MUST BE SUBMITTED 14 DAYS |
| | E | RECESSED LED LIGHTING | ZUMTOBEL | BR4D-LED2N-22W-830-W5 -D1-CL-W-CA | 120 | 22 WATTS | 1 | 22 WATTS | RECESSED | PRIOR TO BID & REVIEWED BY THE ARCHITECT ENGINEER & OWNER. SUBSTITUTIONS WILL NOT BE REVIEWED AFTER THIS TIME. |
| ϕ | F | SUSPENDED PENDANT LIGHTING | FRANKLIN IRON WORKS | EMILE URBAN INDUSTRIAL 8-3 4" INDUSTRIAL MINI PENDENT LIGHT #7C289 | 120 | 7 WATTS | 5 | 35 WATTS | SUSPENDED | SUBMITTAL PACKAGES MUST INCLUDE COLOR, CUT SHEETS, ALL PHOTO METRICS & FIXTURE SAMPLES FOR ALL DECORATIVE FIXTURES. |
| (TXX) | - | COMBO EXIT/EMERGENCY LIGHT | DUAL LITE | LT-U-RW-03L | 120 | 3 WATTS | 2 | 6 WATTS | WALL | LANDSCAPE FIXTURES & OUTDOOR FIXTURES. WITHOUT THIS INFORMATION NO REVIEW WILL |
| \$ _T | Т | TIMER WALL SWITCH | LEVITON/EQUIVALENT | 6124/EQUIVALENT | - | - | | | WALL | BE PROVIDED. |
| \$ _{os} | os | OCCUPANCY WALL SWITCH | LEVITON | ODS10 | - | - | | | WALL | |
| (OS) | os | CEILING OCCUPANCY SENSOR | LEVITON | ODC0S-I1W | - | - | | | CEILING | |
| | (E) | EXISTING TO REMAIN | - | - | - | - | | | - | |
| | | - | | | | | | | | 1 |

PRIOR TO BID & REVIEWED BY THE ARCHITECT,

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| REVIS: | IONS DATES: | |
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| 1 | CITY CMNTS. | 10/18/2 |
| 2 | HEALTH CMNTS. | 10/23/2 |
| | | |
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PROFESSIONAL SEAL

SSUE DATE: 09-05-24 PROJECT #:

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ELECTRICAL PLAN NOTES AND RISER DIAGRAM

| ELECTRICAL RISER KEYED NOTES: |
|-------------------------------|
|-------------------------------|

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

- EXISTING 200A, 120/208V, 3-PHASE, 4 WIRE ELECTRICAL METER AND BREAKER SWITCH IN THE EXISTING METER BANK FOR THE PROJECT SPACE SHALL REMAIN. E.C. SHALL COORDINATE WITH LANDLORD/BASE BUILDING FOR THE EXACT LOCATION OF THE EXISTING METER BANK AND EXACT POWER DISTRIBUTION IN THE FIELD. E.C SHALL VERIFY THE OPERABLE CONDITION OF EXISTING METER & BREAKER SWITCH, REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- EXISTING FEEDERS TO REMAIN. E.C. TO VERIFY OPERABLE CONDITION OF FEEDER'S IN FIELD AND PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

SERVICE | F7

DISCONNECT

(E)

120/208V,

3-PHASE, 4-WIRE

EXISTING

UTILITY SUPPLY

- EXISTING 200A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A"(NAME TO BE VERIFIED IN FIELD). E.C SHALL VERIFY EXACT SIZE, LOCATION AND OPERABLE CONDITION OF PANEL. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- NEW 100A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B". E.C SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER

ELECTRICAL GENERAL NOTE:

- 1. ABOVE RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. E.C. SHALL VERIFY EXACT POWER DISTRIBUTION IN FIELD AND INFORM ENGINEER ON RECORD FOR
- 2. E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
- 3. ELECTRICAL CONTRACTOR 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 IN OPERABLE. BASE BID ACCORDINGLY.
- 5. EXISTING ELECTRICAL DISTRIBUTION TO BE MAINTAINED AND UTILIZED TO SERVE PROJECT SPACE. POWER RISER DIAGRAM INDICATED FOR REFERENCE PURPOSES

| ELECTRICAL RISER S | YMBOLS |
|--------------------|---------------------------|
| NEW | |
| EXISTING IT | TEM/FEEDER |
| X EXISTING IT | TEM/FEEDER CONNECTED & |
| | |

PROPOSED FLOOR

PROJECT SPACE

NEW

PANEL-"B'

100A

(M.L.O)

120/208V

3-PHASE

4-WIRE

-4#3, #8G, 1 1/4"C

EXISTING

PANEL-"A"

200A

(M.L.O)

120/208V

3-PHASE

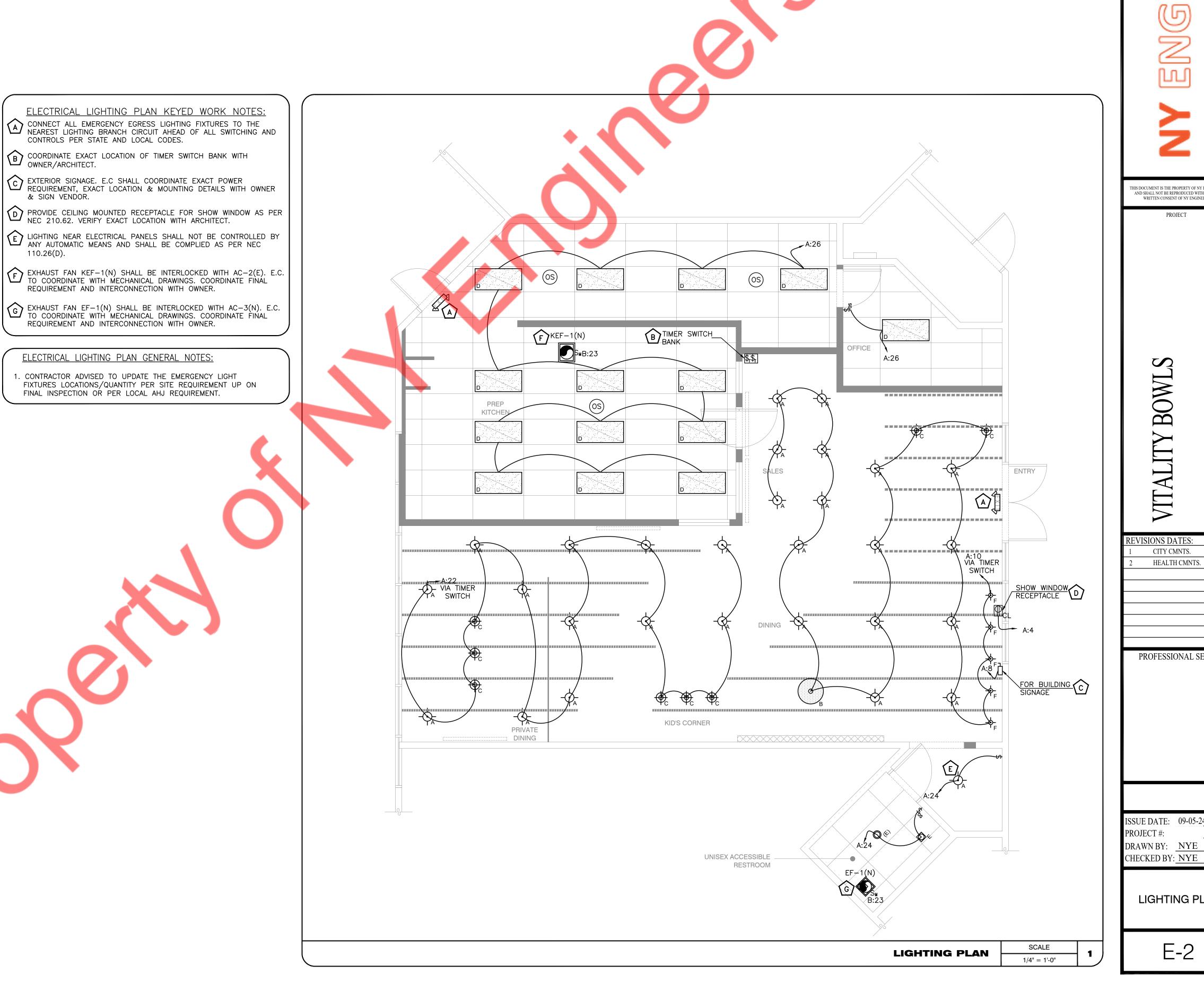
4-WIRE

100/3P

0 0

ELECTRICAL RISER

N.T.S.



& SIGN VENDOR.

REQUIREMENT AND INTERCONNECTION WITH OWNER.

ELECTRICAL LIGHTING PLAN GENERAL NOTES:

FINAL INSPECTION OR PER LOCAL AHJ REQUIREMENT.

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PROFESSIONAL SEAL

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LIGHTING PLAN

E-2

- A. 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, EXACT LOCATION AND MOUNTING HEIGHT OF THE RECEPTACLES WITH ARCHITECT/OWNER IN THE FIELD.

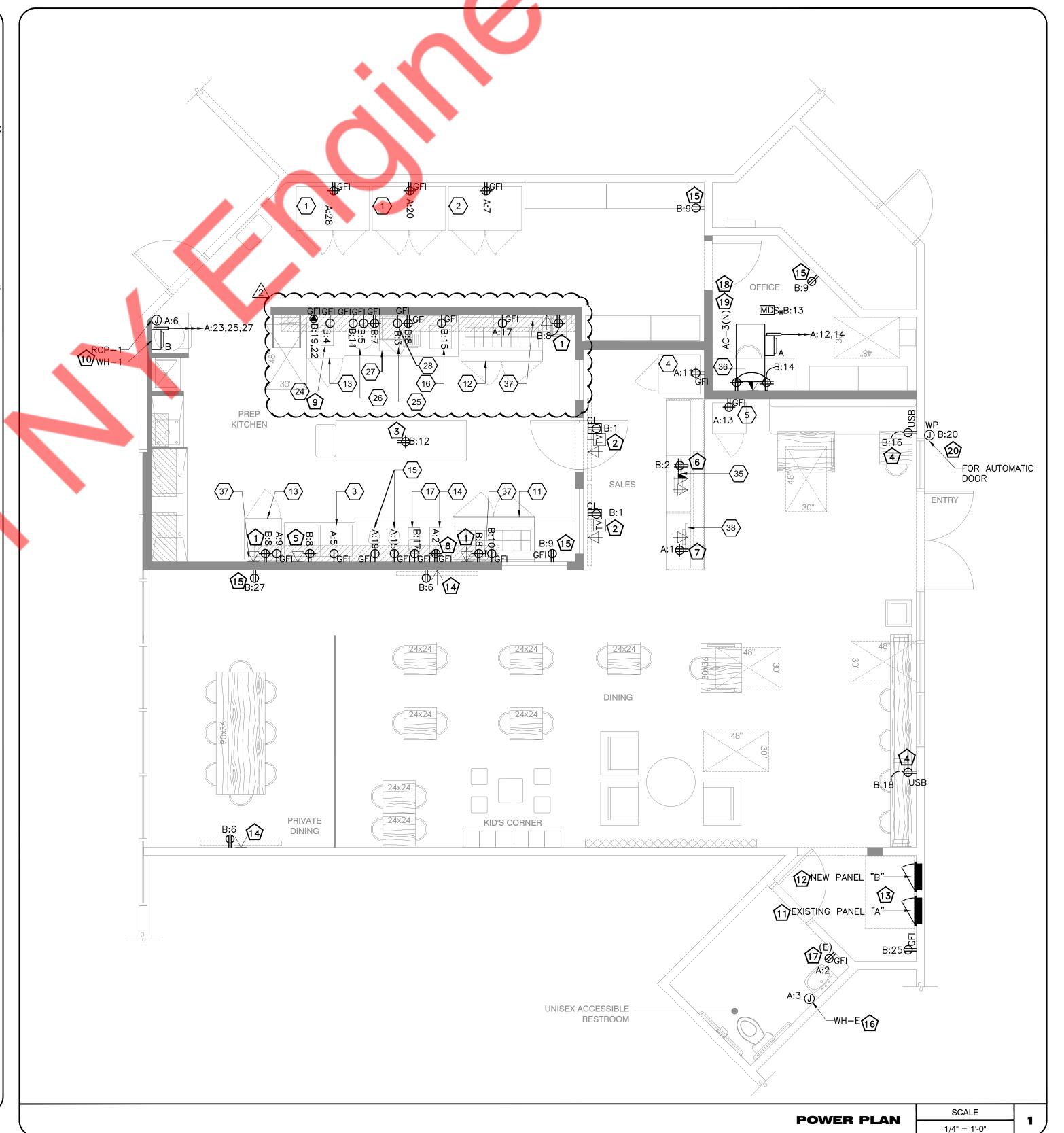
POWER PLAN KEYED NOTES:

- PROVIDE NEW ORDER DISPLAY SCREEN WITH CAT 5 /6 DATA LINE FROM SCALE MODEM/ROUTER AND ELECTRICAL RECEPTACLE ABOVE TOPPING STATION (EQUIPMENT #11), SAVORY STATION (EQUIPMENT#12), BASING STATION (EQUIPMENT#13), COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATING, MOUNTING HEIGHT OF ELECTRICAL OUTLET.
- PROVIDE (1) DUPLEX RECEPTACLE AND (1) CAT6 DATA CABLE AND CONNECTION FOR EACH MENUBOARD. COORDINATE IN FIELD FOR FINAL LOCATION AND EXACT MOUNTING HEIGHT WITH OWNER. REFER TO SHEET A1.1 NOTE 10.
- 3) PROVIDE A COMMERCIAL KITCHEN CORD REELS ABOVE TABLE.
- ADD PLUG STRIP UNDER COUNTER TOP FACING CUSTOMER SEAT. (LEGRAND—TAMPER RESISTANT PLUGMOLD).
- PROVIDE POS DATA AND PRINTER OUTLET ABOVE BASING REF @+66" A.F.F. REFER TO POS SYSTEM WIRING DIAGRAM IN EQUIPMENT BOOKLET. COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATING, MOUNTING HEIGHT OF ELECTRICAL OUTLET.
- PROVIDE ALL POS SYSTEM LOW VOLTAGE AND STANDARD WIRING CONNECTIONS TO INVOICE PRINTER, PATCH PANEL, KITCHEN PRINTER, AND KITCHEN MONITOR (OPTIONAL), AND REFER WIRING DIAGRAM IN EQUIPMENT BOOKLET. REFER TO A1.1 SHEET NOTE "12".
- 7 PROVIDE A SELF ORDER KIOSK AND DATA LINE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH #14_RAPID RINSER EQUIPMENT MANUFACTURER/VENDOR FOR EXACT POWER REQUIREMENT, EXACT MOUNTING HEIGHT. BASE BID ACCORDINGLY.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH #24_JUICER

 9 EQUIPMENT MANUFACTURER/VENDOR FOR EXACT POWER
 REQUIREMENT, EXACT MOUNTING HEIGHT. BASE BID
- 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.
- EXISTING 200A(M.L.O), 208/120V, 3—PHASE, 4—WIRE

 LECTRICAL PANEL "A" (NAME TO BE VERIFIED AT FIELD). E.C

 SHALL VERIFY EXACT SIZE, LOCATION AND OPERABLE CONDITION
 OF PANEL. REPLACE IF FOUND INOPERABLE. BASE BID
 ACCORDINGLY.
- NEW 100A(M.L.O), 120/208V, 3—PHASE, 4—WIRE ELECTRICAL PANEL "B". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
- 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH
 OWNER/VENDOR FOR EXACT POWER PROVISION, EXACT
 MOUNTING HEIGHT AND LOCATION OF ELECTRICAL OUTLET AND
 DATA PORT FOR WALL MOUNTED TV. BASE BID ACCORDINGLY.
- DUPLEX OUTLET, COORDINATE MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- EXISTING WATER HEATER (WH-E) ALONG WITH ITS ELECTRICAL CONNECTIONS SHALL REMAIN AND SHALL REMAIN CONNECTED TO THE EXISTING ELECTRICAL PANEL. VERIFY THE OPERABLE CONDITION OF EXISTING ELECTRICAL CONNECTION. REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- EXISTING RECEPTACLE ALONG WITH ITS ELECTRICAL CONNECTION SHALL REMAIN CONNECTED TO EXISTING PANEL "A" AS IT IS. E.C. SHALL VERIFY OPERABLE CONDITION OF EXISTING RECEPTACLE AND ITS CONNECTION IN FIELD. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION OF THE MECHANICAL UNITS IN THE FIELD.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AUTOMATIC DOOR MANUFACTURER/VENDOR FOR EXACT POWER REQUIREMENT, EXACT MOUNTING HEIGHT, LOCATION. BASE BID ACCORDINGLY.



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PROJECT

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 1
 CITY CMNTS.
 10/18/2024

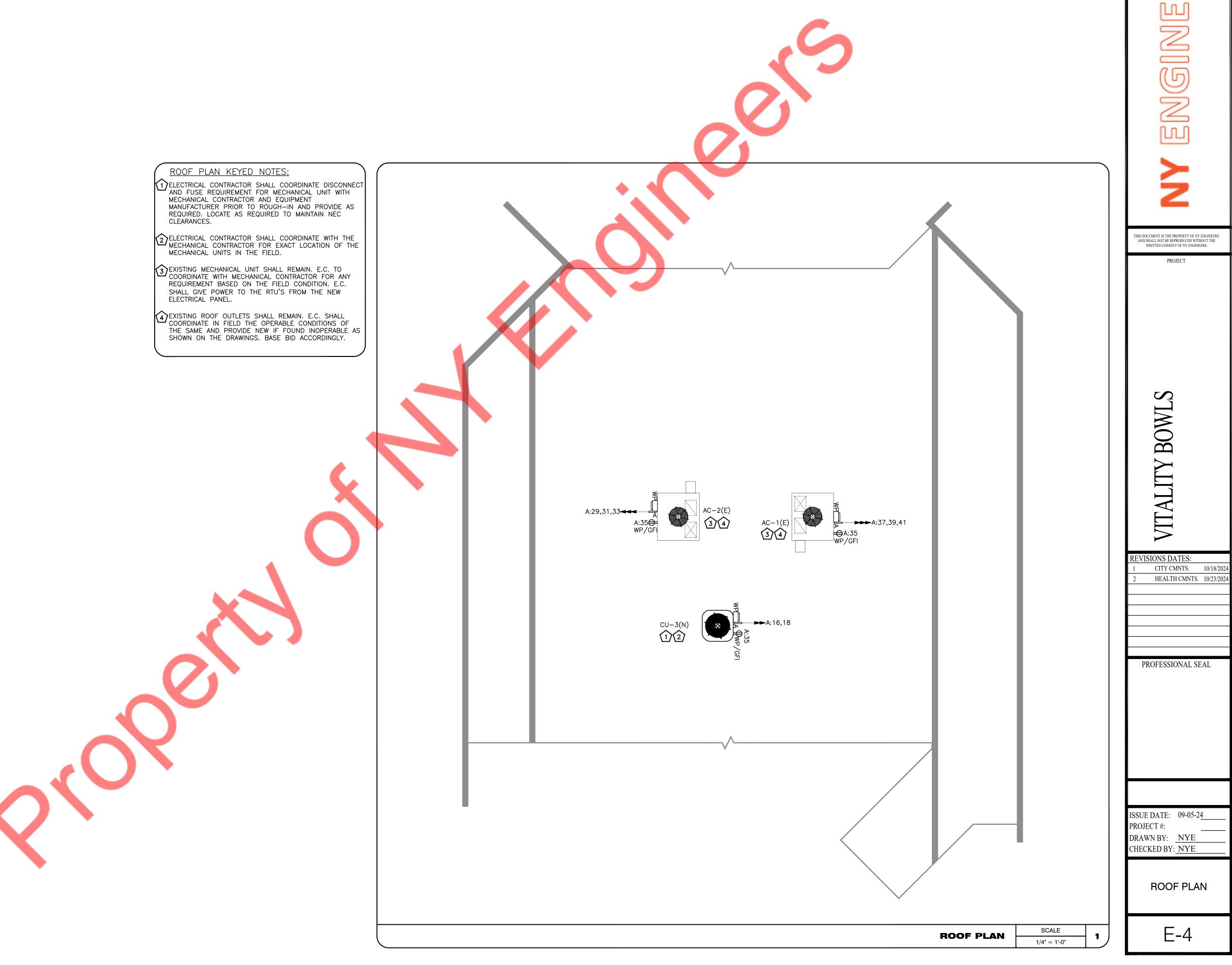
 2
 1
 HEALTH CMNTS.
 10/23/2024

PROFESSIONAL SEAL

ISSUE DATE: 09-05-24
PROJECT #:
DRAWN BY: NYE
CHECKED BY: NYE

POWER & ROOF PLAN

E-3



PANEL SCHEDULE:

| 6 | PANEL: | A(E) | | | | | | | | | | | | | MOUNTING: | SURFACE | | |
|-------------|--------------|----------|----------------------|---------------------|----------------|------------|----------|-----------------------|---------|------------|-------|-------------------|-------|----------|------------------------|---------------|----------|--------|
| | 208Y/120 | VOLTS, | | 3 | PHASE, | | | 4 | WIRE | | | | | | LOCATION: | CORRIDOOR | | |
| | MAIN CB | NA. | | | MLO | 200A | | | BUS | EXISTING | | MIN, | | | FED FROM: | EXISTING METE | R/DISCOI | NNECT |
| | "NOTE: L:LIG | HTING, R | : RECEPTAC | LES, K:KITCH | EN/EQUIPMENTS, | H: HVAC, I | м: мото | OR, O:OTHER/MISCILLAN | NEOUS " | | | | | | <u>.</u> | • | | |
| | CKT NO. | TRIP | | DESCRIPTION | LOELOAD | LOAD | LOAD | MINIMUM BRANCH | PEI | R PHASE (K | VA) | MINIMUM BRANCH | LOAD | LOAD | | | TRIP | |
| | CKT NO. | AMPS | | DESCRIPTION | OF LOAD | TYPE | (KVA) | CIRCUIT | Α | В | С | CIRCUIT | (KVA) | TYPE | | | AMPS | CKT NO |
| | 1 | 20 | POS RECE | PTACLE | | R | 0.36 | 2#12, #12G, 3/4"C | 0.54 | | | EXISTING | 0.18 | R | RECEPTACLE RR | | 20 | 2 |
| | 3 | 20 | WATERHE | ATER | | 0 | 1.80 | EXISTING | | 2.80 | | 2#12, #12G, 3/4"C | 1.00 | R | SHOW WINDOW RECEPTA | CLE | 20 | 4 |
| | 5 | 20 | #3_FLAT L | .ID DISPLAY F | REEZER | Е | 0.23 | 2#12, #12G, 3/4"C | | | 1.08 | 2#12, #12G, 3/4"C | 0.85 | 0 | RCP-1 | | 20 | 6 |
| (5) | 7 | 20 | #2_STANE | D-UP 2-DOOR | REFRIGERATOR | Е | 0.61 | 2#12, #12G, 3/4"C | 1.61 | | | 2#12, #12G, 3/4"C | 1.00 | L | EXTERIOR SIGN | | 20 | 8 |
| | 9 | 20 | #13_UND 1-DOOR | ERCOUNTER | REFRIGERATOR | Е | 0.25 | 2#12, #12G, 3/4"C | | 0.64 | | 2#12, #12G, 3/4"C | 0.38 | L | LIGHTING_SALES, DINNIN | G | 20 | 10 |
| | 11 | 20 | #4_STANE | O UP 1-DOOR | FREEZER | Е | 0.56 | 2#12, #12G, 3/4"C | | | 1.09 | | 0.53 | Н | \wedge | | | 12 |
| | 13 | 20 | #5_STANG REFRIGER | O UP 1-DOOR ATOR | DRINK | E | 0.47 | 2#12, #12G, 3/4"C | 1.00 | | | 2#12, #12G, 3/4"C | 0.53 | Н | AC-3(N) 4 | | 15-2P | 14 |
| | 15 | 20 | #15_BLEN | IDERS | | E | 1.80 | 2#12, #12G, 3/4"C | | 3.31 | | | 1.51 | Н | _ | 25-2 | | 16 |
| | 17 | 20 | #12_FOOI 2-DOOR R | | ON TABLE W/ | E | 0.62 | 2#12, #12G, 3/4"C | | | 2.13 | 2#12, #10G, 3/4"C | 1.51 | Н | CU-3(N) (3) | | | 18 |
| | 19 | 20 | #15_BLEN | IDERS | | Е | 1.80 | 2#12, #12G, 3/4"C | 2.95 | | | 2#12, #12G, 3/4"C | 1.15 | E | #1_STAND-UP 2-DOOR FR | EZZER | 20 | 20 |
| | 21 | 20 | #14_RAPI | D RINSER | | E | 0.49 | 2#12, #12G, 3/4"C | | 0.89 | | 2#12, #12G, 3/4"C | 0.40 | L | LIGHTING_PRIVATE DINNI | NG | 20 | 22 |
| | 23 | | | | | 0 | 4.08 | | | | 4.12 | 2#12, #12G, 3/4"C | 0.04 | L | LIGHTING_RESTROOM | | 20 | 24 |
| | 25 | 50-3P | WATER H | EATER(WH-1) |) 1 | 0 | 4.08 | 3#8, #10G, 3/4"C | 4.56 | | | 2#12, #12G, 3/4"C | 0.48 | L | LIGHTING_PREP KITCHEN, | OFFICE | 20 | 26 |
| | 27 | | | | | 0 | 4.08 | | | 5.23 | | 2#12, #12G, 3/4"C | 1.15 | E | #1_STAND-UP 2-DOOR FR | EZZER | 20 | 28 |
| | 29 | | | | | Н | 2.07 | | | | 2.07 | | | | SPACE | | | 30 |
| | 31 | 30-3P | AC-2(E.) | | | Н | 2.07 | 3#10, #10G, 3/4"C | 2.07 | | | | | | SPACE | | | 32 |
| | 33 | | | | | Н | 2.07 | | | 2.07 | | | | | SPACE | | | 34 |
| | 35 | 20 | ROOF GFI | | | R | 0.36 | 2#12, #12G, 3/4"C | | | 0.36 | | | | SPACE | | | 36 |
| | 37 |] | | | | Н | 2.07 | | 7.09 | | | | 5.03 | 0 | | | | 38 |
| | 39 | 30-3P | AC-1(E.) | | | Н | 2.07 | 3#10, #10G, 3/4"C | | 7.09 | | 4#3, #8G, 11/4"C | 5.03 | 0 | PANEL B 2 | | 100-3P | 40 |
| | 41 | | | 1 | Н | 2.07 | | | | 7.09 | | 5.03 | 0 | <u> </u> | | | 42 | |
| | | | | | | TOTAL | LOAD (K\ | /A) | 19.82 | 22.02 | 17.94 | | | | | | | |

| PANEL: | B(N) | | | | | | | | | | | | | | MOUNTING: | RECESSED | | |
|--------------|------------|------------|--------------|----------------------|------------|----------|----------------------|-----------|------------|------|-------------------|-------|------------|----------------------------------|------------------------------|---------------|------|--------|
| | | | | | | | | | | | | | | | | | | |
| 208Y/120 | VOLTS, | | 3 | PHASE, | | | 4 | WIRE | | | | | | | LOCATION: | CORRIDOOR | | |
| | | | | | | | | | | | | | | | | | | |
| MAIN CB | NA. | | | MLO | 100A | | | BUS | 125A | | MIN, | | | | FED FROM: | PANEL A | | |
| "NOTE: L:LIC | GHTING, R: | RECEPTAC | LES, K:KITCH | EN/EQUIPMENTS, C: RE | FRIGERATIO | N, H: HV | AC, M: MOTOR, O:OTHE | R/MISCILL | ANEOUS " | | | | _ | | | • | | |
| CKT NO. | TRIP | | DESCRIDT | TION OF LOAD | LOAD | | MINIMUM BRANCH | PEF | R PHASE (K | VA) | MINIMUM BRANCH | LOAD | LOAD | | | | TRIP | CKT NO |
| CKI NO. | AMPS | | DESCRIPT | HOW OF LOAD | TYPE | (KVA) | CIRCUIT | Α | В | С | CIRCUIT | (KVA) | (KVA) TYPE | | | | AMPS | CKTIVE |
| 1 | 20 | TV MENU | BOARD | | R | 0.70 | 2#12, #12G, 3/4"C | 1.42 | | | 2#12, #12G, 3/4"C | 0.72 | R | POS | | | 20 | 2 |
| 3 | 20 | #25_4-SLI | CE COMMER | CIAL TOASTER | E | 1.80 | 2#12, #12G, 3/4"C | | 2.05 | | 2#12, #12G, 3/4"C | 0.25 | E | #13_UNDE 1-DOOR | RCOUNTER REFR | IGERATOR | 20 | 4 |
| 5 | 20 | #28_MICR | OWAVE | | E | 1.61 | 2#12, #12G, 3/4"C | | | 2.11 | 2#12, #12G, 3/4"C | 0.50 | R | DINING AR | EA TV | | 20 | 6 |
| 7 | 20 | #27_HEAT | ED WELLS | | E | 1.44 | 2#12, #12G, 3/4"C | 2.16 | | | 2#12, #12G, 3/4"C | 0.72 | R | PRINTER AND ORDER DISPLAY SCREEN | | AY SCREEN | 20 | 8 |
| 9 | 20 | RECEPTAC | LE | | R | 0.36 | 2#12, #12G, 3/4"C | | 0.98 | | 2#12, #12G, 3/4"C | 0.62 | E | #11_BOWL TOPPINGS 2-DO | | OR REF. TABLE | 20 | 10 |
| 11 | 20 | #26_RICE | COOKER (OA | ATMEAL) | E | 1.55 | 2#12, #12G, 3/4"C | | | 1.91 | 2#12, #12G, 3/4"C | 0.36 | R | KITCHEN CO | ONVENIEN <mark>CE</mark> REC | CEPTACLE | 20 | 12 |
| 13 | 20 | MOTORIZE | D DAMPER | | М | 0.10 | 2#12, #12G, 3/4"C | 0.64 | | | 2#12, #12G, 3/4"C | 0.54 | R | #36_AUDIO VIDEO RACK | | | 20 | 14 |
| 15 | 20 | #16_PANI | NI PRESS | | E | 1.80 | 2#12, #12G, 3/4"C | | 2.88 | | 2#12, #12G, 3/4"C | 1.08 | R | USB RECEP | TACLE | | 20 | 16 |
| 17 | 20 | #17_VITAI | MIX BLENDE | R | E | 1.80 | 2#12, #12G, 3/4"C | | | 2.88 | 2#12, #12G, 3/4"C | 1.08 | R | USB RECEP | TACLE | | 20 | 18 |
| 19 | 20-2P | #24_JUICE | :D | | E | 0.34 | 2#12, #12G, 3/4"C | 0.84 | | | 2#12, #12G, 3/4"C | 0.50 | 0 | AUTOMAT | C DOOR | | 20 | 20 |
| 21 | 20-27 | #24_JOICE | .11 | | E | 0.34 | 2#12, #12G, 3/4 C | | 0.34 | | | | | SPARE | | | 20 | 22 |
| 23 | 20 | KEF-1, EF- | 1 | | Н | 0.55 | 2#12, #12G, 3/4"C | | | 0.55 | | | | SPARE | | | 20 | 24 |
| 25 | 20 | SERVICE R | ECEPTACLE | | R | 0.18 | 2#12, #12G, 3/4"C | 0.18 | | | | | 35 | SPARE | | | 20 | 26 |
| 27 | 20 | PRIVATE D | INING_RECE | PTACLES | R | 0.18 | 2#12, #12G, 3/4"C | | 0.18 | | | | | SPACE | | | | 28 |
| 29 | | SPACE | | | | | | | | 0.00 | | | | SPACE | | | | 30 |
| | | | | | TOTAL LOA | AD (KVA) | - | 5.24 | 6.44 | 7.45 | | | | | | | | |

PANEL SCHEDULE GENERAL NOTES:

- A. ALL CIRCUITING SHOWN IN PANEL "A", FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING & BREAKER SIZE OF THE EXISTING DEVICES IN FIELD AND INFORM ENGINEER FOR DISCREPANCIES.
- B. ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.
- C. E.C. SHALL PROVIDE NEW CIRCUIT BREAKERS IN PLACE OF EXISTING CIRCUIT BREAKERS WHEREVER NECESSARY TO BE IN LINE WITH THE PANEL SCHEDULE.
- D. E.C. SHALL VERIFY THE EXISTING EQUIPMENT LOAD & RATINGS IN FIELD AND ACCORDINGLY CONSIDER THE ELECTRICAL LOAD IN PANEL BOARD SCHEDULE.
- E. E.C. SHALL PROVIDE NEW CIRCUIT BREAKER IN PLACE OF EXISTING CIRCUIT BREAKER WHEREVER NECESSARY
 TO BE IN LINE WITH THE PANEL SCHEDULE. ALSO CHECK COMPATIBILITY OF NEWLY ADDED BREAKERS WITH
 EXISTING PANEL BEFORE PURCHASE
- PANEL SCHEDULE KEY NOTES:
- 1. E. C SHALL PROVIDE (1)50AMP, 3 POLE BREAKER IN THE PLACE OF (3)SPACE.
- 2. E. C SHALL PROVIDE (1)100AMP, 3 POLE BREAKER IN THE PLACE OF (3)SPACE.
- 3. E. C SHALL PROVIDE (1)25AMP, 2 POLE BREAKER IN THE PLACE OF (2)SPACE.
- 4. E. C SHALL PROVIDE (1)15AMP, 2 POLE BREAKER IN THE PLACE OF (2)SPACE.
- 5. E. C SHALL PROVIDE (12)20AMP, 1 POLE BREAKER IN THE PLACE OF (12)SPACE.
- 6. PROVIDE GFCI PROTECTION FOR PERSONNEL FOR ALL SINGLE PHASE RECEPTACLES RATED 50AMP OR LESS & THREE PHASE RECEPTACLES RATED 100AMP OR LESS INSTALLED IN KITCHEN AREA PER NEC 210.8(B)2. GFI PROTECTION SHALL BE PROVIDED AT BREAKER WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE PER NEC 210.8
- DUE TO STATIONARY KITCHEN EQUIPMENT.

 7. E.C SHALL CROSS VERIFY THE EXACT BRANCH BREAKER FEEDING EXISTING CIRCUIT. ADJUST THE CIRCUIT NAMES/ BRANCH BREAKERS AS PER SITE CONDITION. BASE BID ACCORDINGLY.

KITCHEN EQUIPMENT SCHEDULE:

| | EOLIDA | MENT SCHED | 111E | | | |
|---------|---|------------|-------|-------|------|--------------------|
| TEM NO. | DESCRIPTION | VOLTAGE | PHASE | AMPS | KVA | REMARK |
| 1 | STAND-UP 2-DOOR FREEZER | 115 | 1 | 10.00 | 1.15 | |
| 2 | STAND-UP 2-DOOR REFRIGERATOR | 115 | 1 | 5.30 | 0.61 | |
| 3 | FLAT LID DISPLAY FREEZER | 115 | 1 | 2.00 | 0.23 | |
| 4 | STAND UP 1-DOOR FREEZER | 115 | 1 | 4.90 | 0.56 | |
| 5 | STAND UP 1-DOOR DRINK REFRIGERATOR | 115 | 1 | 4.10 | 0.47 | |
| 11 | BOWL TOPPINGS 2-DOOR REF. TABLE | 115 | 1 | 5.40 | 0.62 | |
| 12 | FOOD PREPARATION TABLE W/ 2-DOOR REF. TABLE | 115 | 1 | 5.40 | 0.62 | |
| 13 | UNDERCOUNTER REFRIGERATOR 1-DOOR | 115 | 1 | 2.20 | 0.25 | |
| 14 | RAPID RINSER | 120 | 1 | 4.10 | 0.49 | VERIFY WITH VENDOR |
| 15 | BLENDERS | 120 | 1 | 15.00 | 1.80 | |
| 16 | PANINI PRESS | 120 | 1 | 15.00 | 1.80 | |
| 17 | VITAMIX BLENDER | 120 | 1 | 15.00 | 1.80 | |
| 24 | JUICER | 220* | 1 | 3.30 | 0.73 | VERIFY WITH VENDOR |
| 25 | 4-SLICE COMMERCIAL TOASTER | 120 | 1 | 15.00 | 1.80 | |
| 26 | RICE COOKER (OATMEAL) | 120 | 1 | 12.90 | 1.55 | |
| 27 | HEATED WELLS | 120 | 1 | 12.00 | 1.44 | |
| 28 | MICROWAVE | 120 | 1 | 13.40 | 1.61 | |



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|-------|---------------|------------|
| [| CITY CMNTS. | 10/18/2024 |
| 2 | HEALTH CMNTS. | 10/23/2024 |
| | | |

PROFESSIONAL SEAL

ISSUE DATE: 09-05-24
PROJECT #:
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PANEL SCHEDULES

F_5

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 WORKMANLIKE 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.
- B. 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.
- 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
- 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.

 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 2022 CALIFORNIA PLUMBING CODE.
- 29. WATER HAMMER ARRESTORS AS PER 2022 CALIFORNIA PLUMBING CODE.
- 30. PLUMBING CONTRACTOR SHALL REVIEW ALL BID DOCUMENTATION
- 31. PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING BARRIER-FREE COMPLIANCE (EXAMPLE: CENTER LINE TO TOILET).
- 32. 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.
- 33. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. PROVIDE A COPY TO LL.
- 34. CONTRACTOR TO PROVIDE NEW FLOOR DRAIN WITH TRAP PRIMER AS PER 2022 CALIFORNIA PLUMBING

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 AND ETC.

SCOPE OF WORK

PROVIDE PLUMBING FOR A SUPER FOOD CAFE INCLUDING WATER SANITARY LINES, VENT, GAS AND CONNECT TO EXISTING UTILITIES PROVIDE NEW ELECTRIC STORAGE TYPE WATER HEATER AND REUSE EXISTING POINT OF USE WATER HEATER.

COORDINATE WITH GC AND MECH CONTRACTOR FOR ANY

PLUMBING LEGEND

REQUIRED CONDENSATE LINES, IF REQUIRED.

| PLUMBING I | LEGEND | | |
|------------|-----------------------------|--|--|
| | SANITARY SEWER PIPING | | |
| 5v5 | VENT PIPING | | |
| <u></u> | DOMESTIC COLD WATER PIPING | | |
| <u> </u> | HOT WATER PIPING | | |
| <i></i> | HOT WATER RETURN PIPING | | |
| ├ | PIPE UP | | |
| | PIPE DROP | | |
| FCO ① | FLOOR CLEAN OUT | | |
| | WALL CLEAN OUT | | |
| | P-TRAP | | |
| S.O.V. | SHUT-OFF VALVE | | |
| CW | COLD WATER | | |
| HW | HOT WATER | | |
| HWR | HOT WATER RETURN | | |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY | | |
| \bowtie | GATE VALVE | | |
| | CHECK VALVE | | |
| | RECIRCULATION PUMP | | |
| Q Q | WATER HAMMER ARRESTER | | |
| | FLOOR DRAIN | | |
| I.W. | INDIRECT WASTE | | |
| | FLOOR SINK | | |
| | POINT OF CONNECTION | | |
| 0 | EXPANSION TANK | | |
| | BALANCING VALVE | | |
| | THERMOSTATIC MIXING VALVE | | |

FIXTURE BRANCH SCHEDULES

WATER

NATER CLOSET

LAVATORY

MOP SINK

-COMP SINK

RAPID RINSER

FLOOR SINK

WATER

1/2"

1/2"

3-COMP-SINK 3/4" 12\

MAN THE TOTAL PROPERTY OF THE PARTY OF THE P

WASTE

I.W

1. ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH FIRE-RETARDENT, FACTORY APPLIED JACKET.PROVIDE COLD WATER PIPING

ENERGY CONSERVATION NOTES

FLOOR GRATE TO BE

MOUNT FLUSH WITH

FINISHED FLOOR

SCREWS

FASTENED DOWN WITH

FIRE-RETARDENT, FACTORY APPLIED JACKET.PROVIDE COLD WATER PIPING WITH FACTORY-APPLIED VAPOR BARRIER.INSULATION REQUIREMENT SHOULD COMPLY WITH CALIFORNIA STATE ENERGY CODE 2022, SECTION 150.0.

FLUSH TO FLOOR SINK DETAIL

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

DRAIN LINE

AIR GAP = 2 X "D" (2" MIN.)

☐HUB OUTLET

2. AS PER TITLE 24 CALIFORNIA STATE ENERGY CODE 2022, SERVICE WAER HEATING EQUIPMENT SHALL BE EQUIPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTING FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTING FOR THE INTENDED USE AS PER TABLE 613.1 OF THE CALIFORNIA STATE PLUMBING CODE.

4. AS PER TITLE 24 CALIFORNIA STATE ENERGY CODE 2022, SECTION 613.5, TEMPERATURE CONTROL VALVE SHALL BE PROVIDED TO AUTOMATICALLY REGULATE THE TEMPERATURE OF HOT WATER DELIVERED TO PLUMBING FIXTURE TO A RANGE OF 105°F (41°C) MINIMUM TO 120°F (49°C) MAXIMUM.

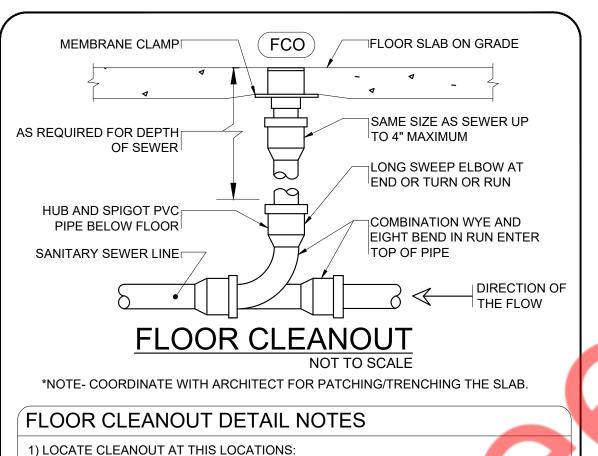
5. INSULATION REQUIREMENT SHOULD COMPLY WITH TITLE 24 CALIFORNIA STATE ENERGY CODE 2022. REFER BELOW TABLE FOR MINIMUM PIPE INSULATION THICKNESS ACC. TO CALIFORNIA PLUMBING CODE 2022 SECTION 609.11, TITLE 24 2022 CALIFORNIA ENERGY CODE 2022 SECTION 150(J).

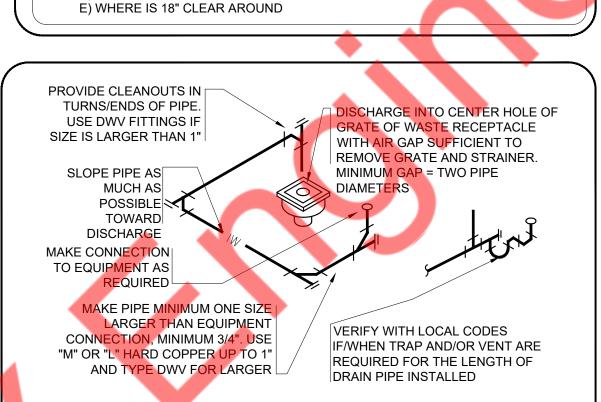
| MINIMUM PIPE INSULATION THICKNESS | | | | | | | |
|--|---|--------------------------------------|---------------------------------------|-----------|--|--|--|
| FLUID OPERATING | | CONDUCTIVITY | NOMINAL PIPE OR TUBE SIZE (INCHES) | | | | |
| TEMPERATURE RANGE AND USAGE (°F) | CONDUCTIVITY BTU· IN./ (H· FT2· °F) | MEAN RATING TEMPERATURE, °F | <1 | 1 to < 1½ | | | |
| 141-200 | 0.25-0.29 | 125 | 1.5 | 1.5 | | | |
| 105-140 | 0.22-0.28 | 100 | 1.0 | 1.5 | | | |

TRAP PRIMER FITTING ESCUTCHEON FLOOR DRAIN TRAP RESEAL DETAIL

| | | | | _ | _ | | | | | | | |
|------|-----------------|---|--|--|--|--|--|--|--|---|---|---|
| | | | | | | | | | | | | |
| TRO | OM FIXTURE SCH | EDULE | | | | | | WAT | ER | WASTE | | |
| Qty. | Description | Manufacturer | | | | | Model | Hot | Cold | Waste | Usage | Spec |
| 1 | WATER CLOSET | EXISTING TO REMA | IN | EXISTIN | IG T | TO REMAIN | | | Е | E | - | - |
| 1 | LAVATORY*** | EXISTING TO REMA | AIN | EXISTIN | IG T | TO REMAIN | | | | E | | |
| 1 | LAVATORY FAUCET | EXISTING TO REMA | VIN | EXISTIN | IG T | TO REMAIN | | E | Ē | | - | - |
| | | Qty. Description 1 WATER CLOSET 1 LAVATORY*** | 1 WATER CLOSET EXISTING TO REMA 1 LAVATORY*** EXISTING TO REMA | Qty. Description Manufacturer 1 WATER CLOSET EXISTING TO REMAIN 1 LAVATORY*** EXISTING TO REMAIN | Qty. Description Manufacturer 1 WATER CLOSET EXISTING TO REMAIN EXISTING 1 LAVATORY*** EXISTING TO REMAIN EXISTING | Qty. Description Manufacturer 1 WATER CLOSET EXISTING TO REMAIN EXISTING 1 LAVATORY*** EXISTING TO REMAIN EXISTING | Qty. Description Manufacturer 1 WATER CLOSET EXISTING TO REMAIN EXISTING TO REMAIN 1 LAVATORY*** EXISTING TO REMAIN EXISTING TO REMAIN | Qty. Description Manufacturer Model 1 WATER CLOSET EXISTING TO REMAIN EXISTING TO REMAIN 1 LAVATORY*** EXISTING TO REMAIN EXISTING TO REMAIN | Qty. Description Manufacturer Model Hot 1 WATER CLOSET EXISTING TO REMAIN EXISTING TO REMAIN 1 LAVATORY*** EXISTING TO REMAIN EXISTING TO REMAIN | Qty. Description Manufacturer Model Hot Cold 1 WATER CLOSET EXISTING TO REMAIN EXISTING TO REMAIN E 1 LAVATORY*** EXISTING TO REMAIN EXISTING TO REMAIN | Qty. Description Manufacturer Model Hot Cold Waste 1 WATER CLOSET EXISTING TO REMAIN EXISTING TO REMAIN E E 1 LAVATORY*** EXISTING TO REMAIN EXISTING TO REMAIN E | Qty. Description Manufacturer Model Hot Cold Waste Usage 1 WATER CLOSET EXISTING TO REMAIN EXISTING TO REMAIN E E - 1 LAVATORY*** EXISTING TO REMAIN EXISTING TO REMAIN E |

| KIT | CHE | N EQUIPMENT PLUM | IBING SCHEDULE | | WA | TER | WA | STE |
|-------------|--------|-----------------------------|----------------------------|--|------|------|--------|----------|
| Item No. | Qty. | Description | MANUFACTURER | MODEL | Hot | Cold | Direct | Indirect |
| 7 | 1 | ***ONE COMPARTMENT SINK | REGENCY 16 TYPE 304 | 600S1181818XRT | 1/2" | 1/2" | | 2" |
| 8 | 1 | THREE COMPARTMENT SINK+ | ADVANCE TABCO | FC-3-1620-18RL | 3/4" | 3/4" | | 2" |
| 9 | 1 | ***ACCESSIBLE HAND SINK | KROWNE | HS-50 | 1/2" | 1/2" | 2" | |
| 10 | 1 | MOP SINK+ | ADVANCE TABCO | 9-OP-20 | 1/2" | 1/2" | 3" | |
| 14 | 1 | RAPID RINSER | BLENDTEC | JRE-510 | | 1/2" | | 3/4" |
| 39 | 1 | HAND SINK | REGENCY | 600HS12SP | 1/2" | 1/2" | 2" | |
| FS | 2 | FLOOR SINKS | ZURN | Z1900-23-31 (ZS1900 IF IN EXPOSED AREAS) | | | 4" | |
| FD | 3 | FLOOR DRAINS* | ZURN | ZS415 W/ TYPE BS STRAINER | | | 3" | |
| TMV | 2 | THERMAL MIXING VALVES | WATTS | LFMMV | 1/2" | 1/2" | | |
| *PRO\ | /IDE T | TAP PRIMERS FOR ALL FLOOR D | RAINS/+HOT WATER 140°F. ** | **MIXING VALVE REQUIRED. | | | | |





B) AT TURNS OF PIPES GREATER THAN 45 DEGREES

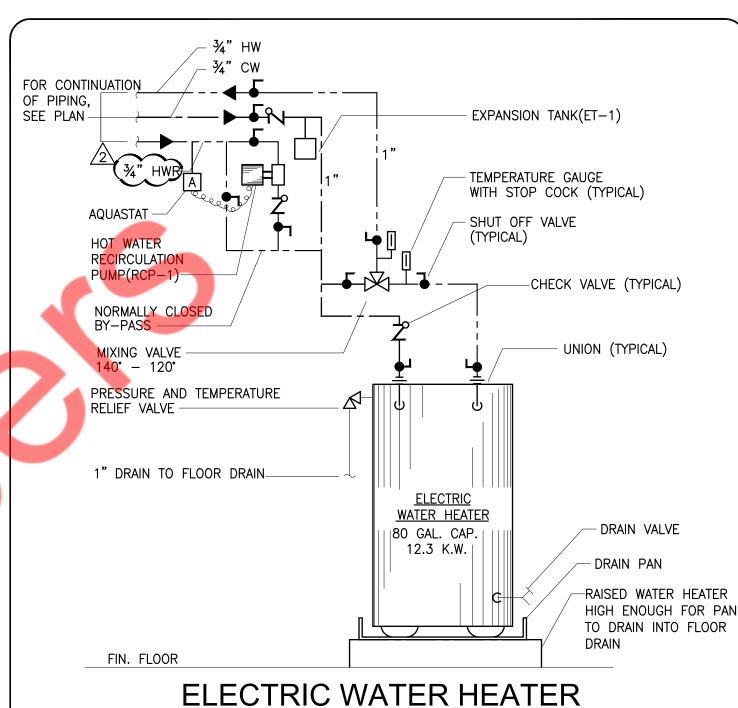
C) AT 90' INTERVALS ON STRAIGHT RUNS

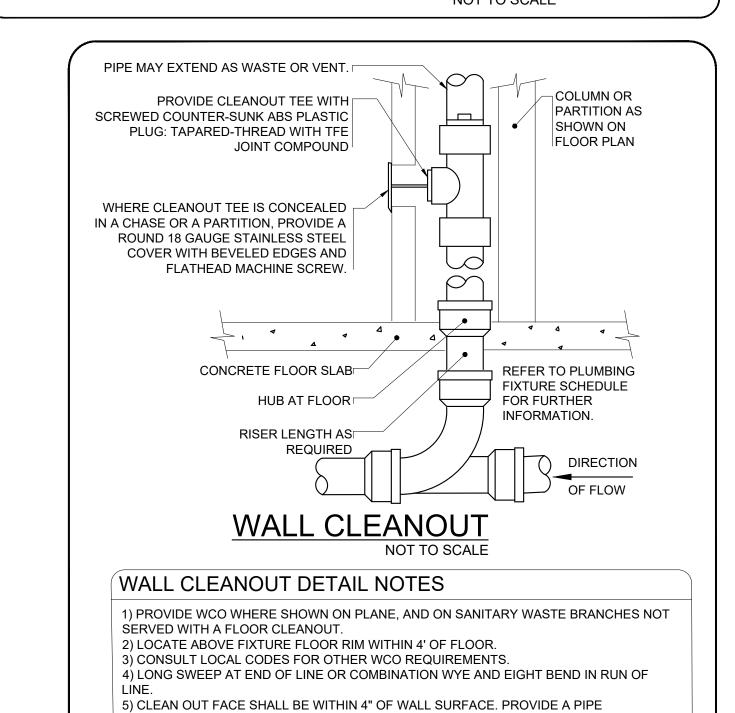
D) WHERE IS SHOWN ON PLANS

A) BUILDING EXIT

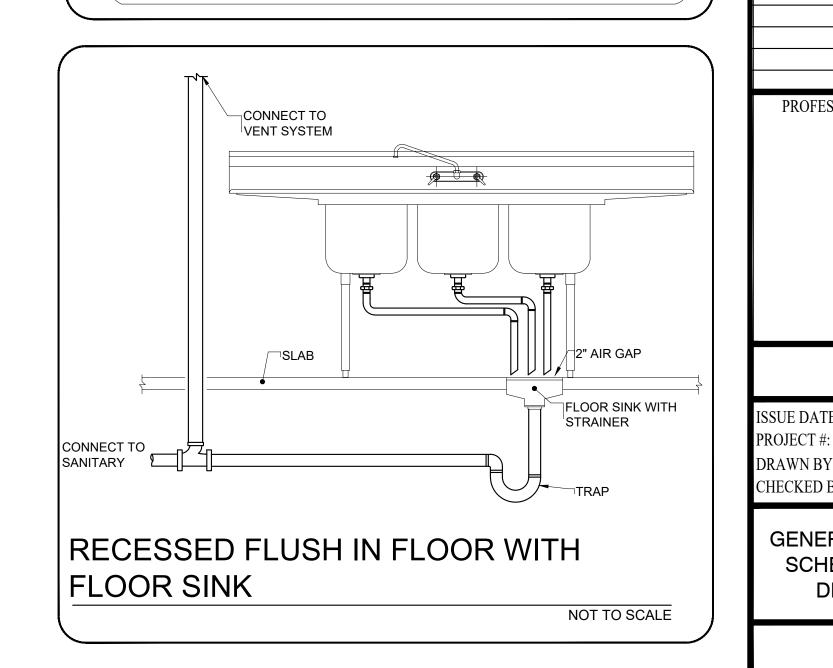
ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

INDIRECT WASTE CONNECTION DETAIL





EXTENSION IF REQUIRED.



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PROJECT

VITALITY BOWLS

REVISIONS DATES:

1 CITY CMNTS. 10/18/2024

2 2 HEALTH CMNTS. 10/23/2024

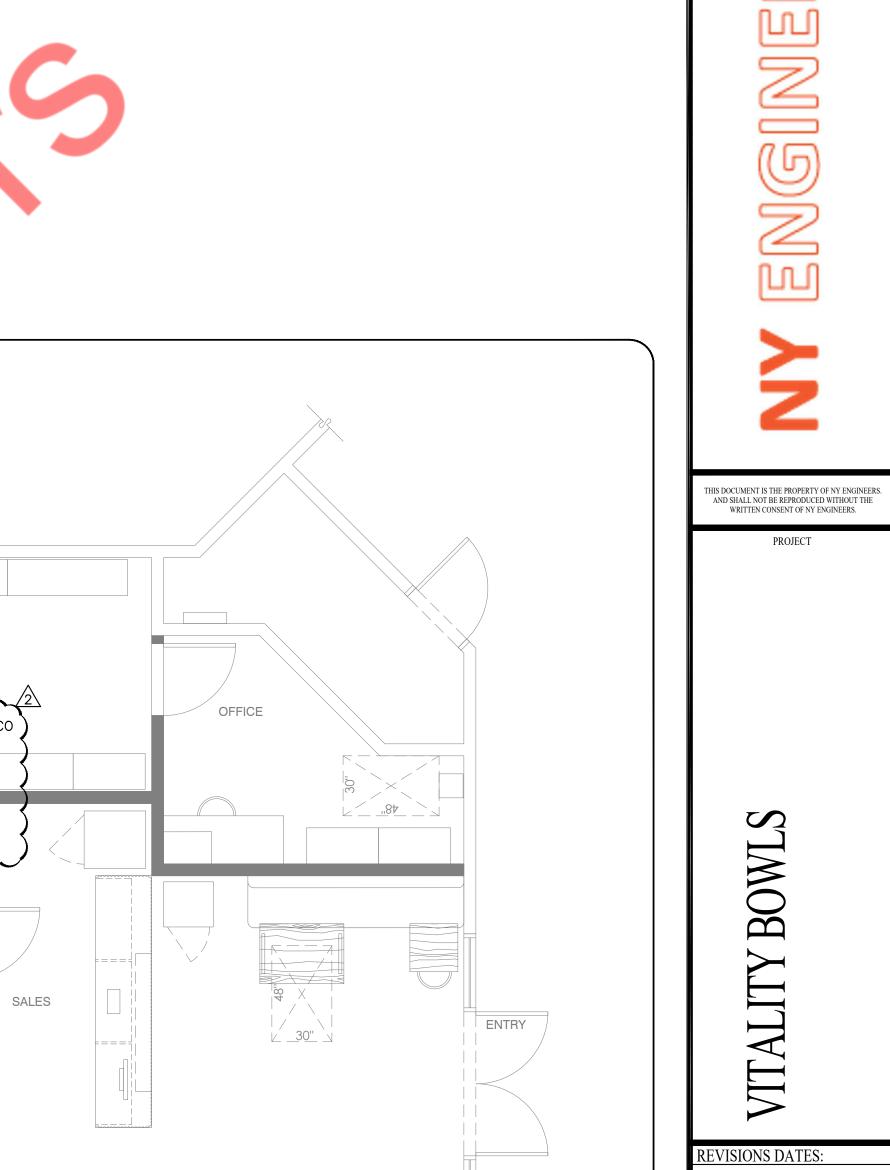
PROFESSIONAL SEAL

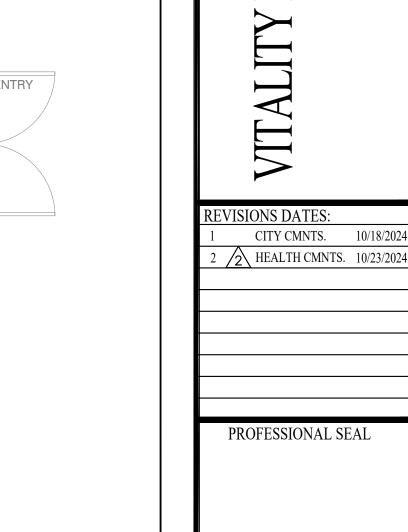
ISSUE DATE: 09-05-24

DRAWN BY: NYE
CHECKED BY: NYE

GENERAL NOTES, SCHEDULES & DETAILS

P-1





ISSUE DATE: 09-05-24 PROJECT #: DRAWN BY: NYE CHECKED BY: NYE

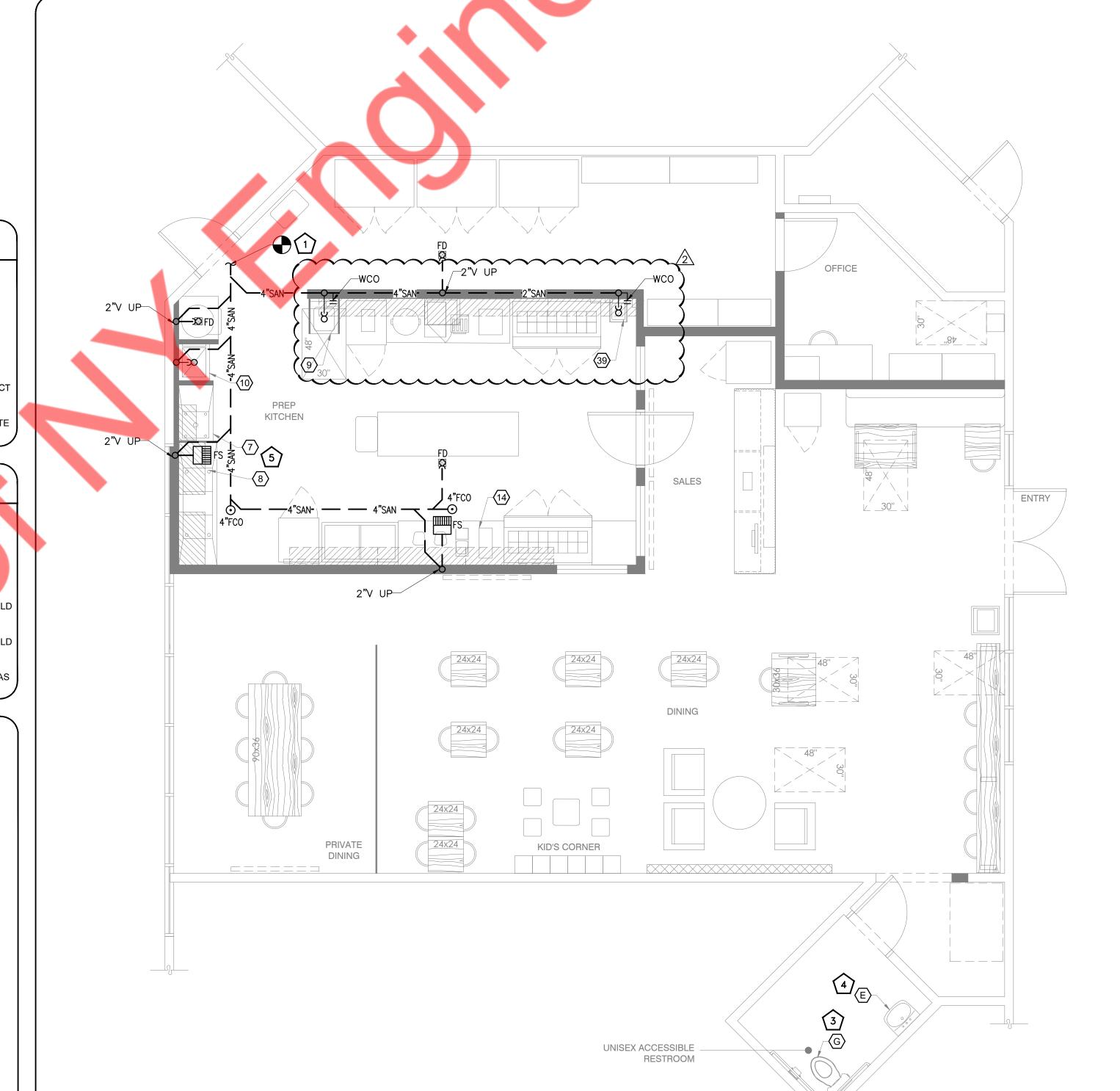
PROJECT

SANITARY PLAN AND RISER

SCALE

1/4" = 1'-0"

SANITARY PLAN

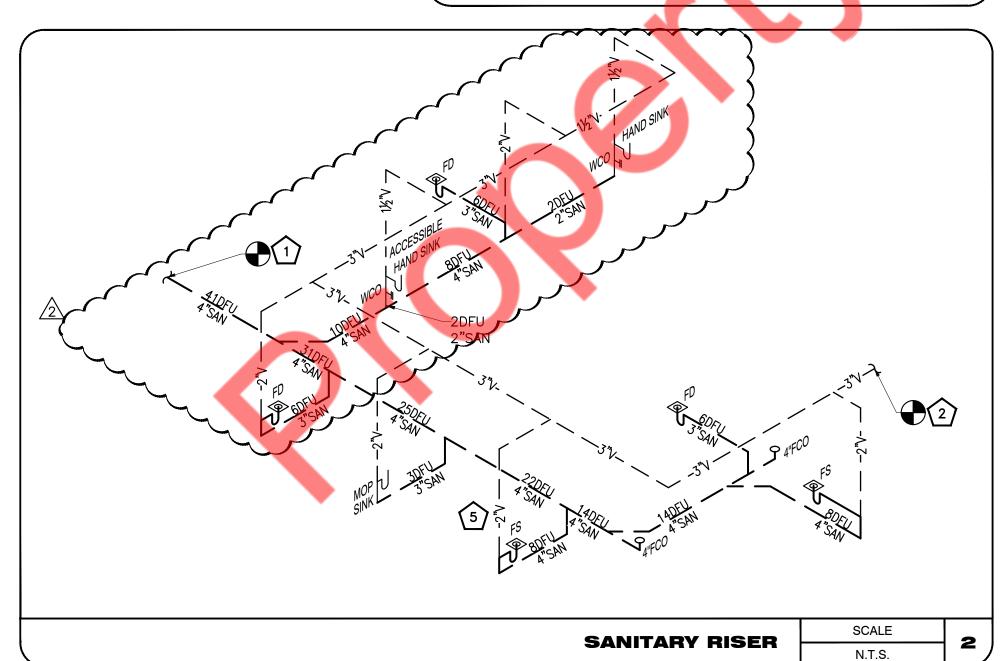


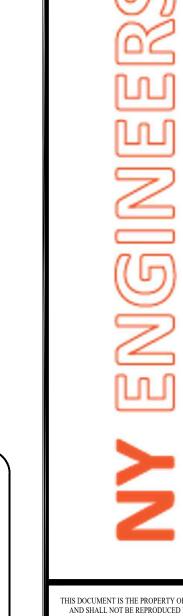
GENERAL NOTES

- UNLESS OTHERWISE NOTED, SLOPE OF DRAINAGE SYSTEM TO BE 1/8" PER FOOT OF RUN FOR PIPE 4" AND OVER, 1/4" PER FOOT FOR PIPE 3-1/2" OR SMALLER.
- CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT
- ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
- ALL CLEANOUTS TO BE ACCESSIBLE.
- REFER SANITARY RISER DIAGRAM FOR ALL PIPE SIZES.
- PROVIDE RECTOR SEAL 'SURE SEAL' ON EACH FLOOR DRAIN NOT RECEIVING INDIRECT DRAINAGE.
- CONTRACTOR TO VERIFY THE EXISTING SANITARY AND VENT LOCATION AND ROUTING. MAKE NECESSARY CHANGES TO NEW PIPING AS PER THE EXISTING SITE CONDITION.

SANITARY KEY NOTES

- CONNECT NEW 4" SANITARY LINE TO EXISTING SANITARY LINE IN SPACE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, SIZE, INVERT AND FLOW DIRECTION OF EXISTING SANITARY LINE AND MAKE NECESSARY CHANGES IF REQUIRED.
- CONNECT NEW 3" VENT PIPE TO EXISTING VENT LINE IN SPACE. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATION AND SIZE ON SITE OF EXISTING VENT LINE AND MAKE NECESSARY CHANGES IF REQUIRED.
- EXISTING WATER CLOSET TO REMAIN WITH EXISTING SANITARY AND VENT CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING LAVATORY TO REMAIN WITH EXISTING SANITARY AND VENT CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- CONTRACTOR TO ROUTE INDIRECT WASTE FROM 3-COMPARTMENT SINK AND 1-COMPARTMENT SINK TO THE NEARBY FLOOR SINK WITH APPROVED AIR GAP AS REQUIRED BY THE LOCAL CODES.





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PROJECT

VITALITY

EVISIONS DATES: CITY CMNTS. 10/18/2024 2 HEALTH CMNTS. 10/23/2024

PROFESSIONAL SEAL

ISSUE DATE: 09-05-24 PROJECT #: DRAWN BY: NYE

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WATER AND GAS PLAN AND WATER RISER

P-3

SCALE

1/4" = 1'-0"

WATER AND GAS PLAN



- CW/HW/HWR PIPING TO BE PROVIDED WITH INSULATION AS PER CALIFORNIA STATE ENERGY CODE 2022 (REFER NOTES ON SHEET P-1).
- PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
- CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
- PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR & SHUT-OFF VALVES
- WATER HEATER (WH-1) DRAIN TO FLOOR DRAIN.
- REFER RISER DIAGRAMS FOR ALL PIPE SIZES.

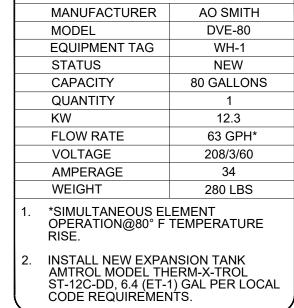
WATER AND GAS PIPING KEY NOTES

- EXTEND AND CONNECT NEW 1" CW LINE TO EXISTING COLD WATER LINE WITH EXISTING BFP AND WATER METER IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING WATER LINE AND MAKE NECESSARY
- EXISTING WATER CLOSET TO REMAIN WITH EXISTING CW CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING & REPLACE IF REQUIRED.
- EXISTING LAVATORY TO REMAIN WITH EXISTING POINT OF USE WATER HEATER, CW/HW CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING & REPLACE IF REQUIRED.
- EXISTING AC-1(E) / AC-2(E) TO REMAIN WITH EXISTING GAS PIPING, GAS METER, RELATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED. CONTRACTOR TO FIELD VERIFY EXISTING AVAILABLE PRESSURE AND MAKE SURE TO PROVIDE ADEQUATE INLET PRESSURE REQUIRED FOR MECHANICAL EQUIPMENT.

N.T.S.

| RECIRCULATION PUMP SCHEDULE | | | | |
|-----------------------------|-------------|--|--|--|
| MANUFACTURER | GRUNDFOS | | | |
| & MODEL | 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: PROVIDE AQUA STAT WITH AUTOMATIC TIMER KIT FOR THE TEMPERATURE CONTROL OF HOT WATER SYSTEM. COORDINATE ELECTRICAL REQUIREMENTS FOR TIMER WITH ELECTRICAL CONTRACTOR.



NEW STORAGE WATER

HEATER SCHEDULE

