

DOUBLE LINE SYMBOL	DESCRIPTION	SINGLE LINE SYMBOL
	DUCT- FIRST NUMBER IS VISIBLE DIMENSION.	
	RADIUS ELBOW W/VANE(S) (1.5=R/D STANDARD)	
	DUCT SECTION, POSITIVE PRESSURE	
	DUCT SECTION, NEGATIVE PRESSURE	
	DUCT & AIRFLOW UP(LEFT) POSITIVE PRESSURE	
	DUCT & AIRFLOW DN(RIGHT) POSITIVE PRESSURE	
	DUCT & AIRFLOW UP(LEFT) NEGATIVE PRESSURE	
	DUCT & AIRFLOW DN(RIGHT) NEGATIVE PRESSURE	
	DUCT & AIRFLOW UP(LEFT) NEG./POS. PRESSURE	
	DUCT & AIRFLOW DN(RIGHT) NEG./POS. PRESSURE	
	CHANGE OF ELEVATION=RISE (R), DROP (D)	
	CEILING EXHAUST FAN WITH LIGHT	
	FD- FIRE DAMPER	
	MANUAL VOLUME DAMPER-SPECIFIC TYPE, NO LABEL-BUTTERFLY, OBD-OPOSED BLADED DAMPER, PBD-PARALLEL BLADE DAMPER	
	BRANCH TAP-W/45 DEG. ENTRY	
	BRANCH TAP-CONICAL SPIN-IN	
	BRANCH TAP-STRAIGHT SPIN-IN	
	TRANSITION	
	HVAC - EQUIP AS NOTED	
RTU-# FCU-# XXX-#		
	AIR DEVICE, SUPPLY- CEILING. CLEAR	
	AIR DEVICE TAC SPIN-IN DIMENSION AIRFLOW (CFM)	
	AIR DEVICE, SUPPLY- SIDEWALL.	
	AIR DEVICE, RETURN/EXHAUST- SIDEWALL.	

M0.1	MECHANICAL GENERAL NOTES AND LEGENDS
M0.2	MECHANICAL SPECIFICATIONS (1 OF 2)
M0.3	MECHANICAL SPECIFICATIONS (2 OF 2)
M1.0	MECHANICAL FLOOR PLAN
M1.1	MECHANICAL ROOF PLAN
M2.0	MECHANICAL SCHEDULES
M3.0	MECHANICAL DETAILS (1 OF 2)
M3.1	MECHANICAL DETAILS (2 OF 2)
M4.0	HOOD DETAILS (1 OF 2)
M4.1	HOOD DETAILS (2 OF 2)
M5.0	ENERGY ANALYSIS (1 OF 2)
M5.1	ENERGY ANALYSIS (2 OF 2)

ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THESE PROJECT:

1. 2021 INTERNATIONAL BUILDING CODE
2. 2021 INTERNATIONAL MECHANICAL CODE
3. 2014 ILLINOIS PLUMBING CODE
4. 2021 INTERNATIONAL FUEL GAS CODE
5. 2024 INTERNATIONAL ENERGY CONSERVATION CODE
6. 2023 NATIONAL ELECTRICAL CODE
7. 2021 INTERNATIONAL FIRE CODE

BD	BACKDRAFT DAMPER
CFM	CUBIC FEET PER MINUTE
CD	CONDENSATE DRAIN
DN	DOWN
EER	ENERGY EFFICIENCY RATIO
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
SEER	SEASONAL ENERGY EFFICIENCY RATIO
AFUE	ANNUALIZED FUEL UTILIZATION EFFICIENCY
FC	FLEXIBLE CONNECTION
VD	VOLUME DAMPER
EF	EXHAUST FAN
MD	MOTORIZED DAMPER
DOAS	DEDICATED OUTDOOR AIR SYSTEM
FD	FIRE DAMPER
RTU	ROOF TOP UNIT

1. TO REUSE THE EXISTING 5.0 TON RTU AND PROVIDE ALL NEW DUCTWORK AND ALL THE NECESSARY ACCESSORIES FOR THE COMPLETE HVAC SYSTEM.
2. PROVIDE ONE NEW RESTROOM EXHAUST FAN.
3. TO INSTALL HOOD, KITCHEN EXHAUST FAN AND THE MAKE UP AIR UNIT PROVIDED BY THE HOOD VENDOR AND PROVIDE AND INSTALL THE GREASE DUCTWORK AND ALL THE NECESSARY ACCESSORIES AS SHOWN ON THE PLAN.
4. COORDINATE WITH THE GC FOR ANY OTHER REFRIGERATION WORK AND WITH PLUMBING CONTRACTOR FOR PROVIDING CONDENSATE DRAIN.
5. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS AS DESCRIBED IN THE SPECIFICATIONS, FLOOR PLAN(S) DESIGN, DETAIL DRAWINGS, NOTES, RFI'S, ETC. FOR THIS PROJECT. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
6. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.

1. ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE 2021 INTERNATIONAL BUILDING CODE, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDING TO DATE.
2. 1. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
3. 2. VENTILATION FOR ALL AREA SHALL COMPLY WITH 2021 INTERNATIONAL MECHANICAL CODE, CHAPTER 4.
4. 3. TESTS WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS. THE TESTS WILL SHOW COMPLIANCE WITH 2021 INTERNATIONAL ENERGY CONSERVATION CODE REQUIREMENTS.
5. 4. 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.
6. 5. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2021 INTERNATIONAL MECHANICAL CODE:
A. VENTILATION SYSTEM BALANCING 2021 IMC – 403
B. VENTILATION SYSTEM SERVING COMMERCIAL COOKING APPLIANCES 2021 IMC 506
C. REFRIGERATION SYSTEM – 2021 IMC
7. 6. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
A. STANDARDS OF HEATING – 2021 IMC – 309.1
B. DUCT CONSTRUCTION AND INSTALLATION – 2021 IMC – 603
C. AIR INTAKES, EXHAUSTS AND RELIEF – 2021 IMC – 401.5
D. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS – 2021 IMC 606
E. GAS FIRED EQUIPMENT – 2021 IFGC
8. 7. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
9. 8. SMOKE DETECTOR SHALL MEET UL268A.
10. 9. SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS WITH THE REQUIREMENTS OF 2021 IMC 606 TO CLOSE DAMPERS AND AUTOMATICALLY STOP THE FAN.
11. 10. 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 2021 IMC – 403.
12. 11. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
13. 12. 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.
14. 13. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
15. 14. 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 SHALL SUBMIT THE AIR BALANCE REPORT TO THE INSPECTOR OF RESPECTIVE BUILDING DEPARTMENT PRIOR FINAL INSPECTION.

1. CONTRACTOR SHALL SURVEY THE AREA OF THIS WORK BEFORE SUBMITTING A BID AND SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY CONDITIONS WHICH WOULD PREVENT THE INSTALLATION OF THE WORK AS SHOWN ON DRAWINGS.
2. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE ADHERED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS, ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
3. BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED OR USED AREAS, THE CONTRACTOR SHALL APPLY TO OWNER FOR PERMISSION TO ENTER SUCH AREAS, THE CONTRACTOR IS OBLIGED TO PERFORM HIS WORK ONLY AT THE TIMES DESIGNATED BY OWNER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED AFTER HOURS OR ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL.
4. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
5. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
6. CONTRACTOR SHALL ASCERTAIN THE APPROPRIATE METHOD FOR BRINGING THE UNITS INTO AND THROUGH THE BUILDING TO POSITION UNIT IN LOCATION SHOWN ON THE PLANS. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH RESTRICTIVE SPACES. COORDINATE WITH BUILDING OWNER APPROPRIATE TIMES OF DAY SUCH EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
7. DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL MAKE ALLOWANCE IN PRICING FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
8. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER.
9. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING. AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDUIT, AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
10. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL (FIBERGLASS INSULATION IS NOT ACCEPTABLE).
11. WHERE PENETRATIONS THROUGH FIRE RATED WALLS ARE NOT FIRE PROOFED THIS CONTRACTOR SHALL BE RESPONSIBLE TO SEAL SAME TO MAINTAIN THE RATED INTEGRITY.
12. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
13. ACCESS DOORS ARE REQUIRED FOR ALL BUILDING SERVICE VALVES THAT RUN THROUGH THE SPACE, AND ACCESS DOOR SHALL HAVE THE EQUAL RATED CAPACITY (1HR, 2HR, ETC.) AS WALL. COORDINATE ALL LOCATIONS OF ACCESS DOORS WITH THE ARCHITECT.
14. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
15. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.

- DEFINITIONS:
1. "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION: THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
 2. "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
 3. "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

1. PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
4. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
5. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
6. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
7. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
8. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
9. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND ELECTRICAL DIVISION OF THE SPECIFICATION.
10. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
11. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO, AND WITHIN 50 FT. OF, ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FT. OF BOILER OR PRESSURE-REDUCING VALVES.
12. LOCATE AIR TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.

COPYRIGHT 2025 ILEKIS ASSOCIATES. ALL RIGHTS RESERVED

DATE: ISSUED FOR:

44/24/25	ISSUED FOR PERMIT
----------	-------------------

126

M0.1

M0.2

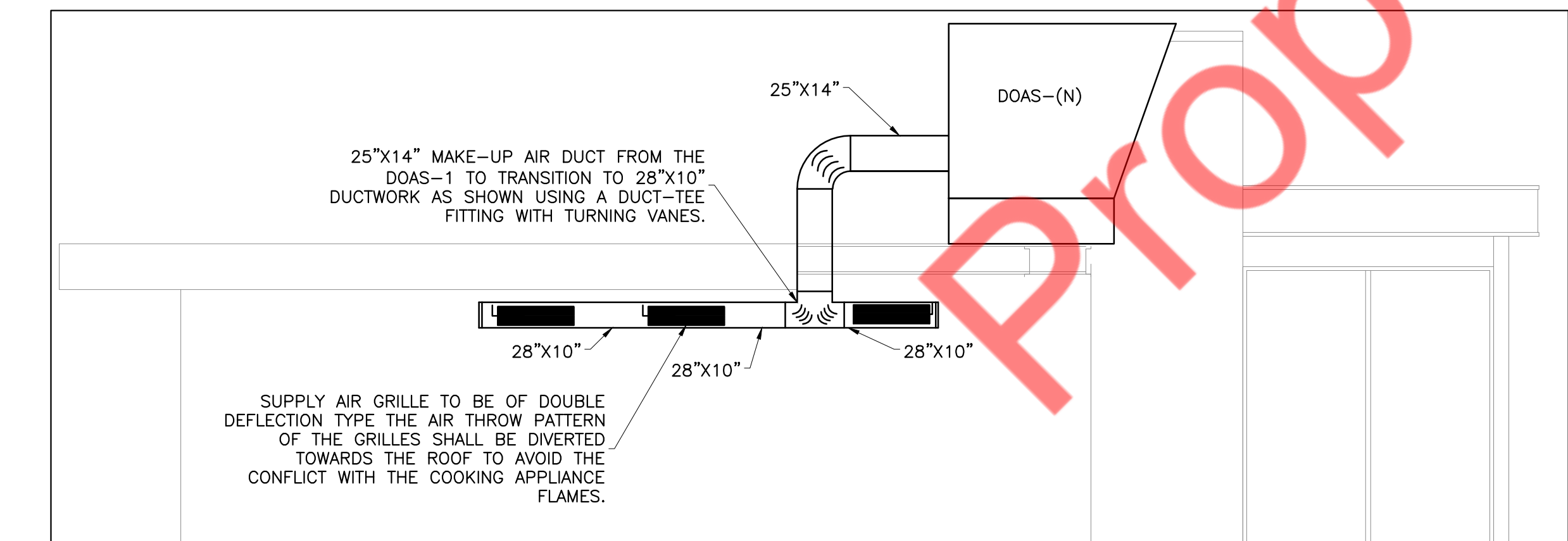
ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED AT OR ABOVE THE REQUIRED FLOOD PROTECTION ELEVATION OF 837.30 FT NAVD88 PER FEMA PANEL 17037C0256E (01/02/2009). CONTRACTOR SHALL VERIFY FIELD ELEVATIONS PRIOR TO PROCUREMENT AND INSTALLATION.

MECHANICAL GENERAL NOTES

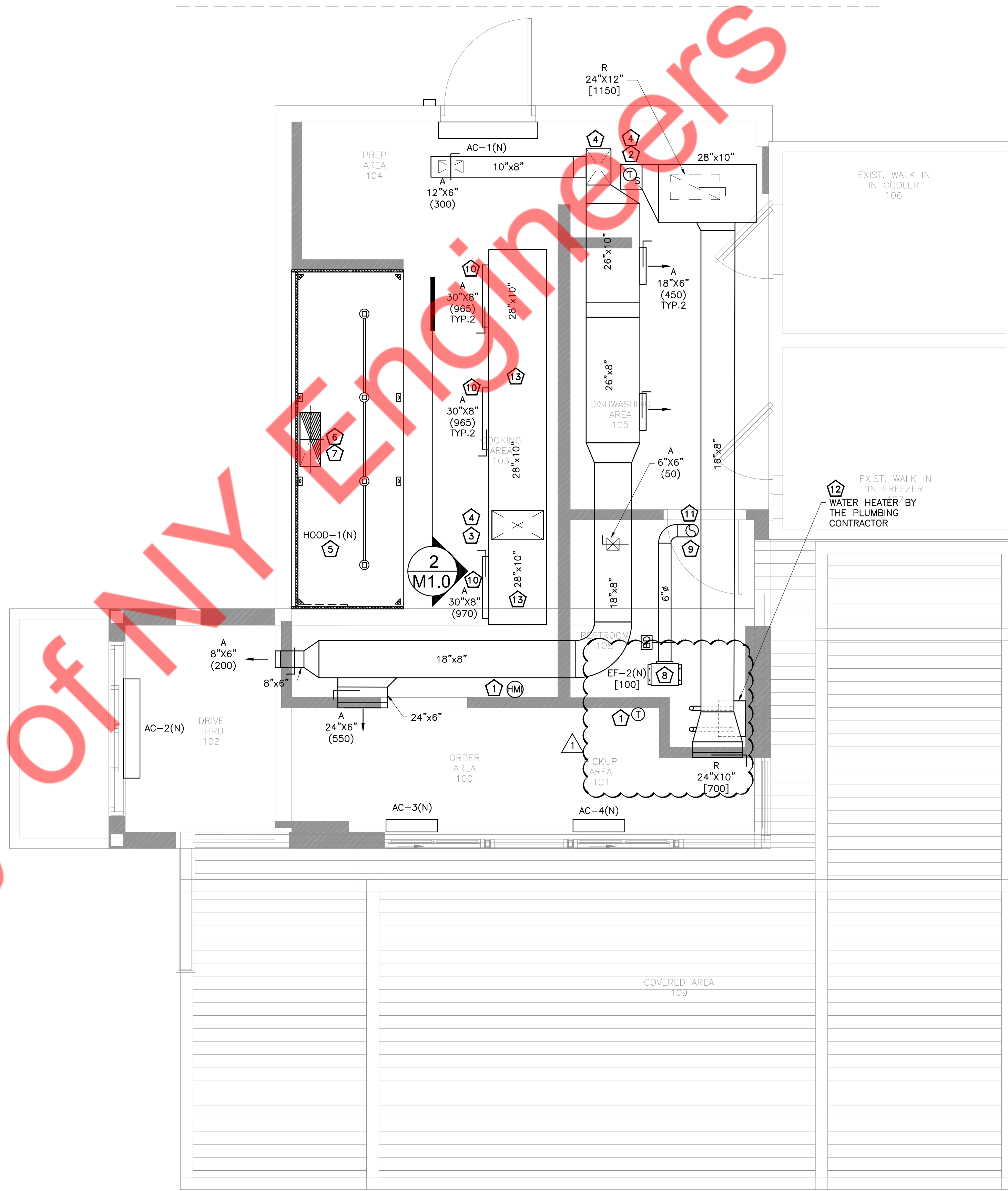
- A. CONTRACTOR TO VISIT SITE TO VERIFY ON FIELD CONDITION ALONG WITH THE DRAWINGS & INFORM THE ENGINEER FOR ANY DISCREPANCIES FOUND BEFORE COMMENCING BIDS.
- B. CONTRACTOR SHALL BALANCE EACH AIR DIFFUSER WITH THE CFM SHOWN PLAN.
- C. DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR DUCTWORK ROUTING. OFFSET AND RUN DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
- D. COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH LANDLORD AND LANDLORD'S STRUCTURAL ENGINEERS.
- E. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC.
- F. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
- G. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.
- H. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.
- I. ALL EXPOSED ROUND DUCTWORK SHALL BE INTERNALLY INSULATED. ALL CONCEALED DUCTWORK SHALL BE EXTERNALLY INSULATED.
- J. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES.
- K. ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.
- L. COORDINATE FINAL LOCATION OF EQUIPMENT WITH LANDLORD'S STRUCTURAL DRAWINGS.
- M. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT MIGRATING TO OCCUPIED AREAS OF THE BUILDING. THIS INCLUDES BLANKING OFF ANY RETURN AIR GRILLES/ DUCTS IN THE WORK AREA. PROVIDE TEMPORARY EXHAUST FANS, DUCTED DIRECTLY TO OUTDOORS, TO MAINTAIN NEGATIVE PRESSURE WITHIN THE WORK AREA.
- N. KEEP ALL ADJOINING AREAS ADJACENT TO THE WORK AREAS CLEAN AND FREE OF DEBRIS.
- O. MECHANICAL CONTRACTOR TO COORDINATE ALL DUCT WORK, CROSSINGS, OVERLAPPING AND PENETRATIONS WITH SITE CONDITIONS AND AS PER EXISTING JOIST LAYOUT, SKYLIGHT AND BEAM IN FIELD. MODIFY DUCT WORK WHEREVER REQUIRED.
- P. CONTRACTOR TO VERIFY ON SITE ALL OUTSIDE AIR & EXHAUST AIR WALL PENETRATION/TERMINATION. INFORM ENGINEER IF ANY DISCREPANCY FOUND.
- Q. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/BARRIERS/SLABS/SHAFTS. COORDINATE WITH ARCHITECTURAL DRAWING FOR FIRE RATING OF THE WALLS.
- R. CABLE OPERATED DAMPERS SHALL BE PROVIDED FOR ANY DIFFUSERS/GRILLES INSTALLED IN HARD CEILING AREAS.

FLOOR PLAN KEY NOTES

- 1 LOCATION OF DIGITAL T-STAT CONTROL FOR RTU-1(E) AND REMOTE HMI CONTROL FOR DOAS. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE LOCKABLE COVER FOR T-STAT. REFER TO K-TECH DRAWINGS FOR THE HMI INSTALLATION AND WIRING REQUIREMENTS.
- 2 PROVIDE REMOTE TEMP MOUNTED IN THE RETURN DUCT AND WIRE BACK TO T-STAT OF RESPECTIVE RTU. CONTRACTOR TO CONFIRM FINAL REQUIREMENT WITH OWNER/ARCHITECT PRIOR INSTALLING.
- 3 25"x14" MAKE-UP AIR DUCT FROM THE DOAS-1 TO TRANSITION TO 28"x10" DUCTWORK AS SHOWN USING A DUCT-TEE FITTING WITH TURNING VANES.
- 4 EXTEND FULL SIZE SUPPLY & RETURN DUCTWORK FROM ROOFTOP UNIT TO SPACE. EXTEND AS SHOWN. ACOUSTICALLY LINE THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS.
- 5 INSTALL TYPE 1 GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE TRAPEZE HANGERS FOR ALL THREAD SUPPORT UNDER DUCTWORK AS REQUIRED. TRANSITION FROM HOOD CONNECTION TO WELDED KITCHEN EXHAUST DUCT SIZES SHOWN.
- 6 GREASE DUCT TO BE PROVIDED WITH KITCHEN EQUIPMENT AND INSTALLED BY MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 7 26"x10" KITCHEN EXHAUST GREASE DUCT UP. CONNECT TO THE EF-1(N) ON THE MAIN ROOF.
- 8 CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH RESPECTIVE UNIT SERVING THE ROOM. REFER TO THE FAN SCHEDULE. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION.
- 9 #6" TOILET EXHAUST DUCT UP THROUGH ROOF.
- 10 SUPPLY AIR GRILLE TO BE OF DOUBLE DEFLECTION TYPE THE AIR THROW PATTERN OF THE GRILLES SHALL BE DIVERTED TOWARDS THE ROOF TO AVOID THE CONFLICT WITH THE COOKING APPLIANCE FLAMES.
- 11 PROVIDE 3/4" DOOR UNDERCUT.
- 12 #2" COMBUSTION AIR INTAKE & EXHAUST VENT FROM WATER HEATER UP YO THE ROOF. INSTALL AS PER THE MANUFACTURER INSTRUCTION.
- 13 DUCT TO BE PAINTED WHITE.



2 SECTION 1
SCALE: 1/8" = 1'-0"



1 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 LEVINS ASSOCIATES. ALL RIGHTS RESERVED.

DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

1

MECHANICAL
FLOOR PLAN

M1.0

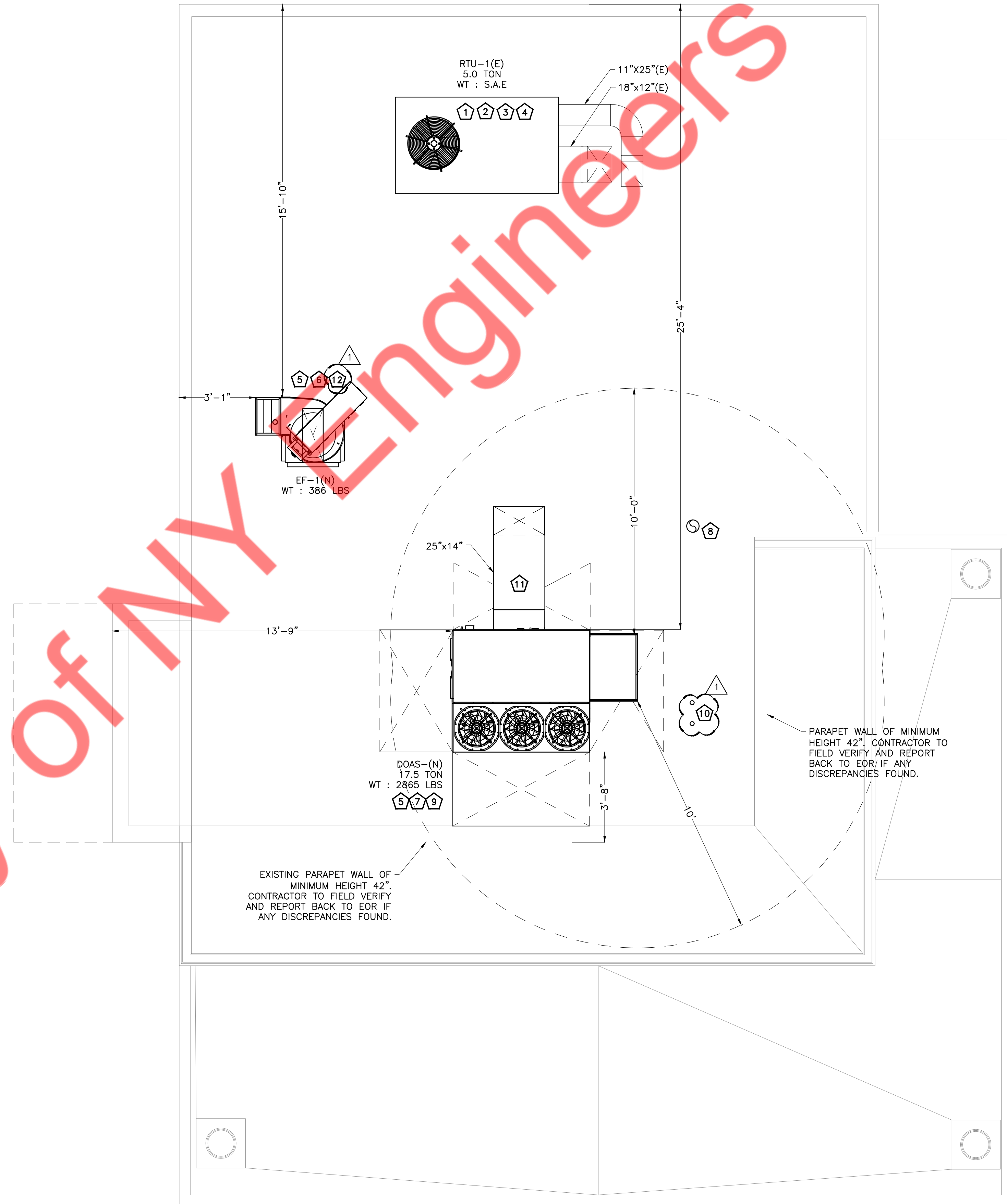
ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED AT OR ABOVE THE REQUIRED FLOOD PROTECTION ELEVATION OF 837.30 FT NAVD88 PER FEMA PANEL 17037C0256E (01/02/2009). CONTRACTOR SHALL VERIFY FIELD ELEVATIONS PRIOR TO PROCUREMENT AND INSTALLATION.

MECHANICAL GENERAL NOTES

- COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURAL ENGINEERS.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT AT FIELD BEFORE FABRICATION OF DUCTWORK.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.
- ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.
- ANY PENETRATION ON THE ROOF SHALL BE COORDINATED WITH THE ROOFING CONTRACTOR.
- GUARDS OR FALL ARREST ANCHORAGE CONNECTORS SHALL BE PROVIDED WHERE VARIOUS COMPONENTS THAT REQUIRE SERVICE AND ROOF PATCH OPENINGS ARE LOCATED WITHIN 10 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF, OR GRADE BELOW. THE GUARD SHALL EXTEND NOT LESS THAN 30 INCHES BEYOND EACH END OF COMPONENTS THAT REQUIRE SERVICE. THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THAN 42 INCHES ABOVE THE ELEVATED SURFACE ADJACENT TO THE GUARD. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21-INCH-DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE INTERNATIONAL BUILDING CODE.

ROOF PLAN KEY NOTES:-

- EXISTING ROOF TOP UNITS TO REMAIN AND TO BE REUSED. PROVIDE DUCT MODIFICATIONS IF REQUIRED. SET OUTSIDE AIR AS INDICATED ON ROOFTOP UNIT SCHEDULES. MECHANICAL CONTRACTOR SHALL SCRIBE INTO UNIT POSITION OF OUTSIDE AIR DAMPER AND LABEL OUTSIDE AIR VOLUME AND PERCENT OF OUTSIDE AIR. TRANSITION AND CONNECT SUPPLY AND RETURN DUCTWORK FROM BELOW. COORDINATE ROUTING THROUGH STRUCTURAL TRUSSES AND OFFSET AS REQUIRED IN CURB SPACE.
- CONDENSATE DRAIN LINES FROM EXISTING RTU TO REMAIN AS IT IS. IF PIPING IS DAMAGED OR BLOCKED, REPAIR OR REPLACE AS/IF DAMAGED. USE PVC OR APPROVED MATERIALS PER LOCAL CODE. PROVIDE NEW DRAIN LINE FOR THE UNIT AND CONNECT TO THE NEAREST APPROVED PLACED OF DISPOSAL AS PER LOCAL CODE.
- IF REQUIRED CONTRACTOR TO REFURBISH EXISTING MECHANICAL EQUIPMENT TO REMAIN AND BRING TO "LIKE NEW" CONDITIONS. CONTRACTOR SHALL VERIFY SPECIFICATIONS OF THE EXISTING MECHANICAL EQUIPMENT TO BE REUSED AND NOTIFY THE ENGINEER IF ANY CONFLICT OR DISCREPANCY IS FOUND PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION OF UNIT ON THE MAIN ROOF PRIOR BASE BID/ COMMENCING CONSTRUCTION.
- CONTRACTOR TO COORDINATE THE LOCATION OF THE UNIT ON THE MAIN ROOF WITH THE STRUCTURAL ENGINEER.
- INSTALL EXHAUST AIR FAN ON THE ROOF AS PER MANUFACTURERS RECOMMENDATIONS.
- ALL OUTSIDE AIR INTAKE ON THE ROOF SHALL BE MINIMUM 10 FEET AWAY FROM ANY EXHAUST SOURCE.
- Ø6" EXHAUST DUCT UP THROUGH ROOF TO BE TERMINATED WITH VENT CAP, 3'-0" ABOVE THE OUTSIDE AIR INTAKE.
- CONTRACTOR TO RUN THE CONDENSATE DRAIN LINE AT A SLOPE NO LESS THAN 1/8" TO THE NEAREST EXISTING STORM DRAINAGE SYSTEM/ANY OTHER APPROVED PLACE OF DISPOSAL AS PER THE LOCAL CODE. THE MATERIAL FOR THE DRAIN SHALL BE PVC/CPVC OR ANY OTHER APPROVED EQUAL MATERIAL.
- Ø2" COMBUSTION AIR INTAKE AND EXHAUST VENT FOR THE WATER HEATER CONTRACTOR TO INSTALL AS PER MANUFACTURERS INSTRUCTIONS. TERMINATE THE VENT 3'-0" ABOVE THE ANY OA INTAKE.
- CONTRACTOR TO PROVIDE EXTERNAL DUCTWORK WITH WEATHER PROOF COATING AND VAPOR BARRIER.
- CONTRACTOR SHALL ENSURE THE DISCHARGE OPENING OF EF-1(N) IS ABOVE THE PARAPET WALL. IF NOT, PROVIDE ADJUSTABLE EXTENSION OPTION FOR THE EF-1(N) AND ENSURE THE DISCHARGE OPENING IS ABOVE THE PARAPET WALL COORDINATE WITH THE MANUFACTURER FOR INSTALLATION.



MECHANICAL ROOF PLAN
SCALE: 1/8\"/>

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 LEVIN ASSOCIATES. ALL RIGHTS RESERVED.

DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

MECHANICAL
ROOF PLAN

M1.1

NOTES:

1. S.A.E : SAME AS EXISTING V.I.F : VERIFY IN FIELD.
2. EXISTING RTU TO REMAIN AND TO BE REUSED WITH ALL ACCESSORIES.
3. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF UNITS ON SITE.
4. IF REQUIRED, PROVIDE NEW PROGRAMMABLE THERMOSTAT & TEMPERATURE SENSOR COMPATIBLE WITH THE RTU. CO-ORDINATE FINAL LOCATION OF T-SENSOR WITH ARCHITECT/OWNER.
5. CONTRACTOR TO BALANCE OUTSIDE AIR & RETURN AIR DAMPER ON RTUS TO MATCH VALUES MENTIONED IN ABOVE TABLE.
6. CONTRACTOR TO VERIFY IN FIELD THE CAPACITIES OF THE EXISTING RTU SERVING THE SPACE IS AS PER THE SCHEDULE. IF NOT REPORT BACK TO ENGINEER PRIOR STARTING THE CONSTRUCTION.
7. CONTRACTOR TO FIELD VERIFY IF RTU IS WORKING AT 100% RATED CAPACITY/LOADS. INFORM TO DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL REFURBISH EXISTING MECHANICAL EQUIPMENT TO REMAIN AND BRING TO "LIKE NEW" CONDITION.

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 15:1 TURNDOWN WITH NG AND 12:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. 15 DEGREE LOW AMBIENT OPERATION
15. SIDE DISCHARGE/NO RETURN
16. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.
17. SCCR RATING OF 10KAMP

NOTES:

1. PROVIDE THERMAL OVERLOAD PROTECTION, BACKDRAFT DAMPER, AMCA SEAL & UL CERTIFIED.
2. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
3. PROVIDE ALL NECESSARY ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS.
4. INTERLOCK WITH RTU-1(E).
5. INTERLOCK WITH DOAS-1(N).
6. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
7. REFER TO K-TECH DRAWINGS FOR SPECIFICATIONS AND MORE DETAILS.

NOTES:

1. REFER TO K-TECH DRAWINGS FOR SPECIFICATIONS AND MORE DETAILS. SCHEDULES SHOWN FOR REFERENCE ONLY.
2. INSTALL UNIT PER MANUFACTURERS INSTALLATION RECOMMENDATIONS.
3. PROVIDE ALL REQUIRED CONTROL WORK FOR INSTALLED EQUIPMENT AS REQUIRED TO BE FULLY FUNCTIONAL.
4. PROVIDE ALL AIR GAPS AND CLEARANCES PER K-TECH DRAWINGS.

NOTES FOR DIFFUSERS/GRILLES

1. PROVIDE VOLUME DAMPER. COORDINATE ACCESS TO DAMPERS WITH CEILING PLAN.
2. MAX NC LEVEL 30 OR LESS.
3. COORDINATE WITH ARCHITECT/OWNER FOR FINAL MOUNTING, FRAME TYPE, PAINT AND FINISH.

EF-1(N)	SEE PLAN	0	0	0	2900	↑
EF-2(N)	SEE PLAN	0	0	0	100	
TOTAL		2000	3050	1850	3000	
BUILDING PRESSURE:			50	↑	POSITIVE	

NOTES:

1. CONTRACTOR TO ADJUST MOTORIZED DAMPER ON FRESH AIR TAP TO PROVIDE OUTSIDE AIR AS MENTIONED IN ABOVE TABLE.

NOTES / ACCESSORIES:

1. CO-ORDINATE WITH ARCHITECT/OWNER FOR FINAL MOUNTING, FRAME TYPE, PAINT AND FINISH.
2. PROVIDE MANUFACTURER RECOMMENDED ACCESSORIES.
3. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENT.
4. PROVIDE LIMIT SWITCH FOR OPERATION. AIR CURTAIN FAN SHALL TURN ON WHEN DOOR IS OPENED.

3	DISHWASHING AREA	125	15	2	-	2	0.12	7.5	30	30	0	0
9	RESTROOM	58	0	0	-	0	0.00	0.0	0	0	100	100
	TOTAL	573		16		10			146	150	100	100

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.

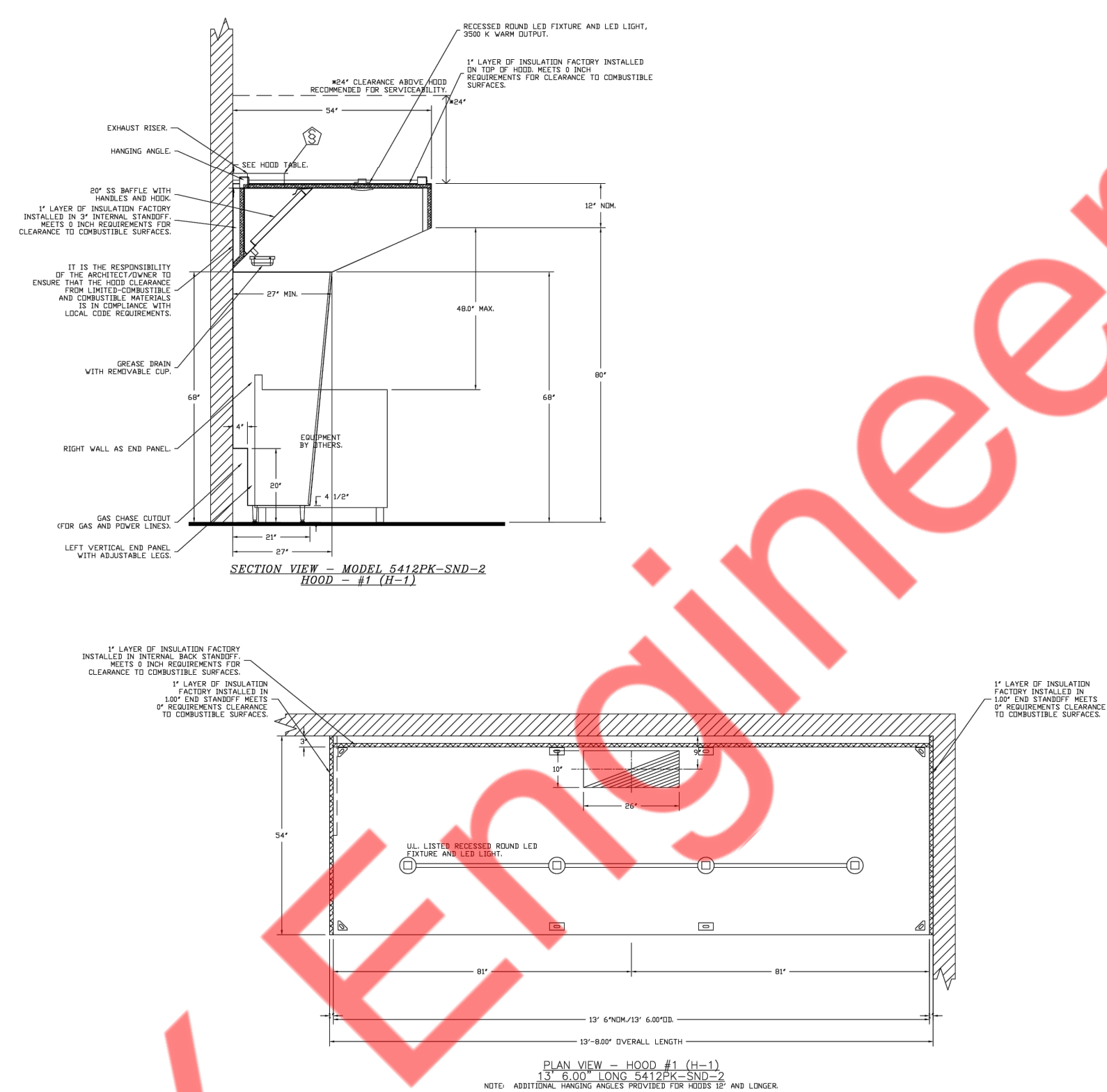
COPYRIGHT 2025 ILEXIS ASSOCIATES, ALL RIGHTS RESERVED

[illegible]

M2.0

HOOD OPTIONS			
HOOD NO	TAG		OPTION
1	H-1	WRAPPER CHANNEL =	FRONT, LEFT, RIGHT.
		RIGHT END STANDOFF (IN/SLP)	1" WIDE 54" LONG INSULATED.
		LEFT END STANDOFF (IN/SLP)	1" WIDE 54" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.	
		STRUCTURAL FRONT PANEL.	
		INSULATION FOR BACK OF HOOD.	
		LEFT VERTICAL END PANEL.	27" TOP WIDTH, 21" BOTTOM WIDTH, 68" HIGH INSULATED 430 SS.
		SENSOR-CV.	
		RIGHT WALL AS END PANEL.	

SHEET NO.
1



SHEET NO.
2

[illegible]

SHEET NO.
3

[illegible]

CURS ASSEMBLIES						
NO	IN ART	SAS	P-VALUE	VC30H	TEM	ISE

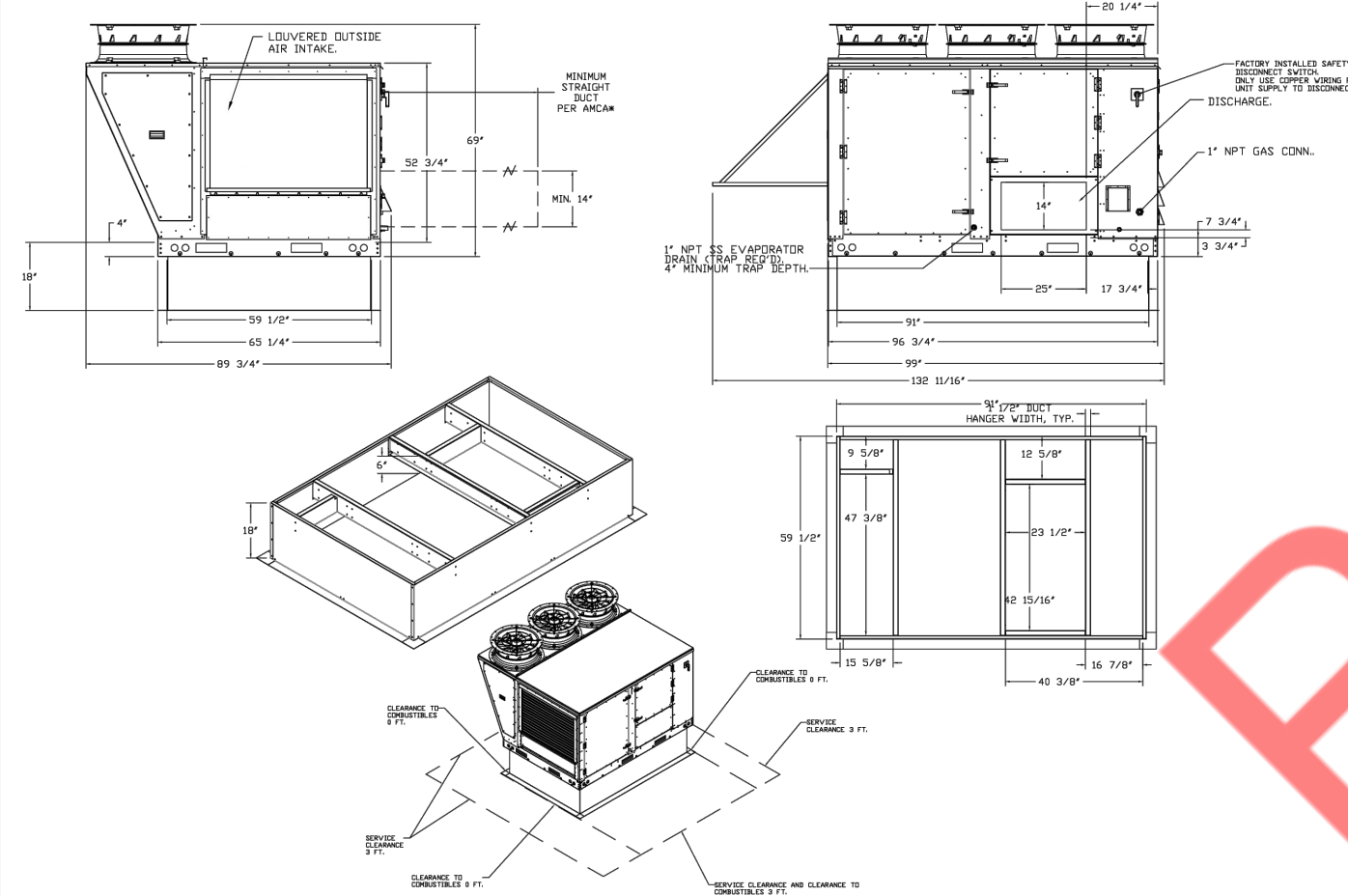
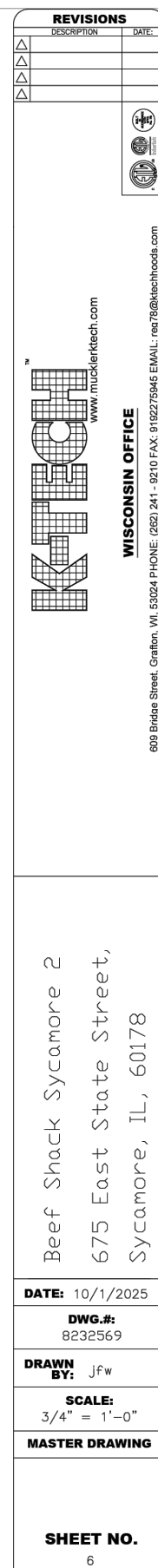
[illegible]

UNIT NUMBER	HME #	HME LOCATION	TEMP AVERAGING	MEASUREMENTS
FAN #2	HME #1 = UNIT	IN UNIT	NOT AVERAGED	55
FAN #2	HME #2 = SPACE		AVERAGED	56

SHEET NO.

HOOD DETAILS
(2 OF 2)

M4.1

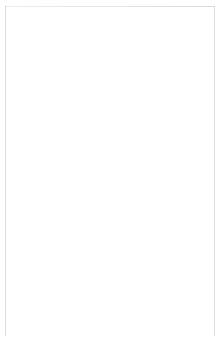




Compliance Certificate

Project Information

Energy Code:
Project Title:
Location:
Climate Zone:
Project Type:
Project No.:
Project Sub Type:
All Electric:
Is Renewable:
Has Battery:
Has Charger:
Has Heat Pump:



Renewable energy

Number of Floors: 1
Area of Three Largest Floors: 825
Proposed Capacity: 0
Required Capacity: 0
Proposed Off-site Energy: 0
Required Off-site Energy: 0
Exception: None

Renewables Pass

Building Area

Description	Floor Area
1-Dining: Cafeteria/Fast Food (Dining: Cafeteria/Fast Food) : Nonresidential Tenant Space	825

Report Title: BEEF SHACK

Report Date: 2/10/26, 10:02 AM

1 of 12



Mechanical Compliance Certificate

Project Information

Energy Code: 2024 IECC
Project Title: BEEF SHACK
Location: Sycamore, Illinois
Climate Zone: 5a
Project Type: Alteration

Construction Site: 675 E STATE ST.
SYCAMORE, Illinois 60178
Owner/Agent:
Designer/Contractor: MICHAEL TOBIAS
NY ENGINEERS
MIAMI, Florida 33179

Mechanical Systems List

Quantity	Component	Description
HVAC Systems		
1	DOAS-(N) (Single Zone):	Heating: 1 each - Central Furnace (Heating Equip), Gas, Capacity = 377 kBtu/h Proposed Efficiency = 81.00% E1, Required Efficiency: 81.00 % E1 Cooling: 1 each - DX DOAS (Dehumidification), Capacity = 224 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Humidity Requirements Proposed Efficiency = 8.00 ISMRE2, Required Efficiency = 3.80 ISMRE2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified

1	WH-1:	Gas Instantaneous Water Heater, Capacity: 0 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump No minimum efficiency requirement applies
---	-------	--

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2024 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MICHAEL TOBIAS

2/10/26

Name - Title	Signature	Date

Report Title: BEEF SHACK

Report Date: 2/10/26, 10:02 AM

2 of 12



Inspection Checklist

Energy Code: 2024 IECC

Requirements: 100% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR2)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Not water system sized per manufacturer's sizing guide.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SPECIFICATIONS

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
---	----------------------	---	------------------------	---	---------------------

Report Title: BEEF SHACK

Report Date: 2/10/26, 10:02 AM

3 of 12

Footing / Foundation Inspection

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.14.2, C403.14.3 (FO7)	Show/rice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
---	----------------------	---	------------------------	---	---------------------

Report Title: BEEF SHACK

Report Date: 2/10/26, 10:02 AM

4 of 12

Plumbing Rough-In Inspection

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 (PL1)	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO PLUMBING PLANS
C404.6.1, C404.6.1.1 (PL2)	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user or a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO PLUMBING SPECIFICATIONS
C404.6.1, C404.6.2 (PL3)	Automatic time switches installed to automatically portion of the recirculating hot-water system or heat trace.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO PLUMBING SPECIFICATIONS
C404.6.3 (PL4)	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C404.7 (PL5)	Drain water heat recovery (DWHR) units comply with CSA B55.2 with pressure loss < 10 psi at maximum flow. Group R occupancies have DWHR efficiencies in accordance with CSA B55.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
---	----------------------	---	------------------------	---	---------------------

Report Title: BEEF SHACK

Report Date: 2/10/26, 10:02 AM

5 of 12

Mechanical Rough-In Inspection

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.3 (ME1)	HVAC equipment efficiency verified.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	See the Mechanical Systems list for values
C403.12.3, C403.12.3.1, C403.12.3.2 (ME13)	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Section C403.12.3.1 and refrigeration compressor systems that comply with C403.12.3.2.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.14.1 (ME14)	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.13.1, C403.13.2 (ME15)	HVAC ducts and plenums insulated in accordance with C403.13.1 and constructed in accordance with C403.13.3, verification may need to occur during Foundation Inspection.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SPECIFICATIONS
C403.2.2 (ME16)	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL PLANS
C403.4.1.3 (ME24)	Where thermostatic control setpoints are adjustable by occupants or HVAC operators, the adjustments are independent for heating and cooling setpoint.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.4.1.5 (ME26)	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.9 (ME3)	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230 and meet efficiency requirements of Table C403.9.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.4.7 (ME36)	Doors or operable openings from conditioned space to outdoors > 40 sq ft contain automatic controls interlocked with the heating and cooling system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Alterations.
C403.4.8.1 (ME38)	Dehumidification controls do not use mechanical cooling to reduce humidity < 60% or a dew point < 55F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.4.8.2 (ME37)	Humidity controls do not use fossil fuel or electricity for a humidity > 30% in warmest zone.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

Report Title: BEEF SHACK

Report Date: 2/10/26, 10:02 AM

6 of 12

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 LEVITS ASSOCIATES. ALL RIGHTS RESERVED.

DATE: 11/21/25
ISSUED FOR: 02/19/26
ISSUED FOR PERMIT
ISSUED PER CITY COMMENTS

ENERGY ANALYSIS
(1 OF 2)

M5.0

Report Title: BEEF SHACK Report Date: 2/10/26, 10:02 AM 7 of 12

Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
C403.1.1 [F12?]	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SPECIFICATIONS
C403.3.1 [F13?]	HVAC systems and equipment capacity does not exceed calculated loads.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL PLAN
C403.4.1 [F14?]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control per installed humidification/dehumidification system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SHEET REFER TO MECHANICAL SPECIFICATIONS
C403.4.1.2 [F16?]	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SHEET REFER TO MECHANICAL SPECIFICATIONS
C403.4.1.4 [F17?]	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SHEET REFER TO MECHANICAL SPECIFICATIONS
C403.4.2 [F18?]	Each zone equipped with setback control using automatic time clock or programmable control system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SHEET REFER TO MECHANICAL SPECIFICATIONS
C403.4.2.1. C403.4.2.2 [F19?]	Automatic Controls: Setback to 55°F (heat) and 65°F (cool), 7-day clock, 2-hour occupant override, 10-hour backstop	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO MECHANICAL SHEET REFER TO MECHANICAL SPECIFICATIONS
C404.3 [F2?]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C404.4 [F3?]	All service water heating piping meets the thickness requirements of Table C404.4.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO PLUMBING SPECIFICATIONS
C404.5.1 [F21?]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: REFER TO PLUMBING PLANS
C405.15.1. C405.15.2 [F25?]	Buildings in climate zones 0-7 comply with the on-site and/or off-site renewable energy requirements of Section C405.15.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

Report Title: BEEF SHACK Report Date: 2/10/20, 10:02 AM

Additional Comments/Assumptions:

1 Title: BEEF SHACK Report Date: 2/10/26, 10:02 AM 11

Additional Comments/Assumptions:

t Title: BEEF SHACK Report Date: 2/10/2015, 10:02 AM

Report Title: BEEF SHACK Report Date: 2/10/26, 10:02 AM 13

ELECTRICAL SYMBOLS LIST				GENERAL NOTES (APPLY TO ALL "E" DRAWINGS)			
LIGHTING		POWER AND TELECOMMUNICATION		ELECTRICAL ABBREVIATIONS			

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 LEVIS ASSOCIATES. ALL RIGHTS RESERVED

DATE:

ISSUED FOR:

11/21/25

ISSUED FOR PERMIT

02/19/26

ISSUED PER CITY COMMENTS

1

ELECTRICAL SYMBOLS
LIST, ABBREVIATIONS
& GENERAL NOTES

E0.1

CITY APPROVAL

- THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.

[illegible]

E0.2

GENERAL LIGHTING NOTES:

- COORDINATE FINAL FIXTURE MAKE & MODEL WITH ARCHITECT/OWNER.
- ALL LIGHT FIXTURES CONSIDERED TO BE AS 120 VOLT FIXTURE. E.C. SHALL INFORM ENGINEER ON RECORD OTHERWISE.
- UPPER CASE LETTER NEXT TO LIGHT FIXTURE DENOTES FIXTURE TYPE.
- ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR.
- CONTRACTOR IS ADVISED TO UPDATE THE EMERGENCY LIGHT FIXTURES LOCATIONS/QUANTITY PER SITE REQUIREMENT UP ON FINAL INSPECTION OR PER LOCAL AHJ REQUIREMENT.
- LIGHTS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE IS EXPOSED FOOD; CLEAN EQUIPMENT, UTENSILS, AND LINENS; OR UNWRAPPED SINGLE-SERVICE.

LIGHTING PLAN KEYED NOTES:

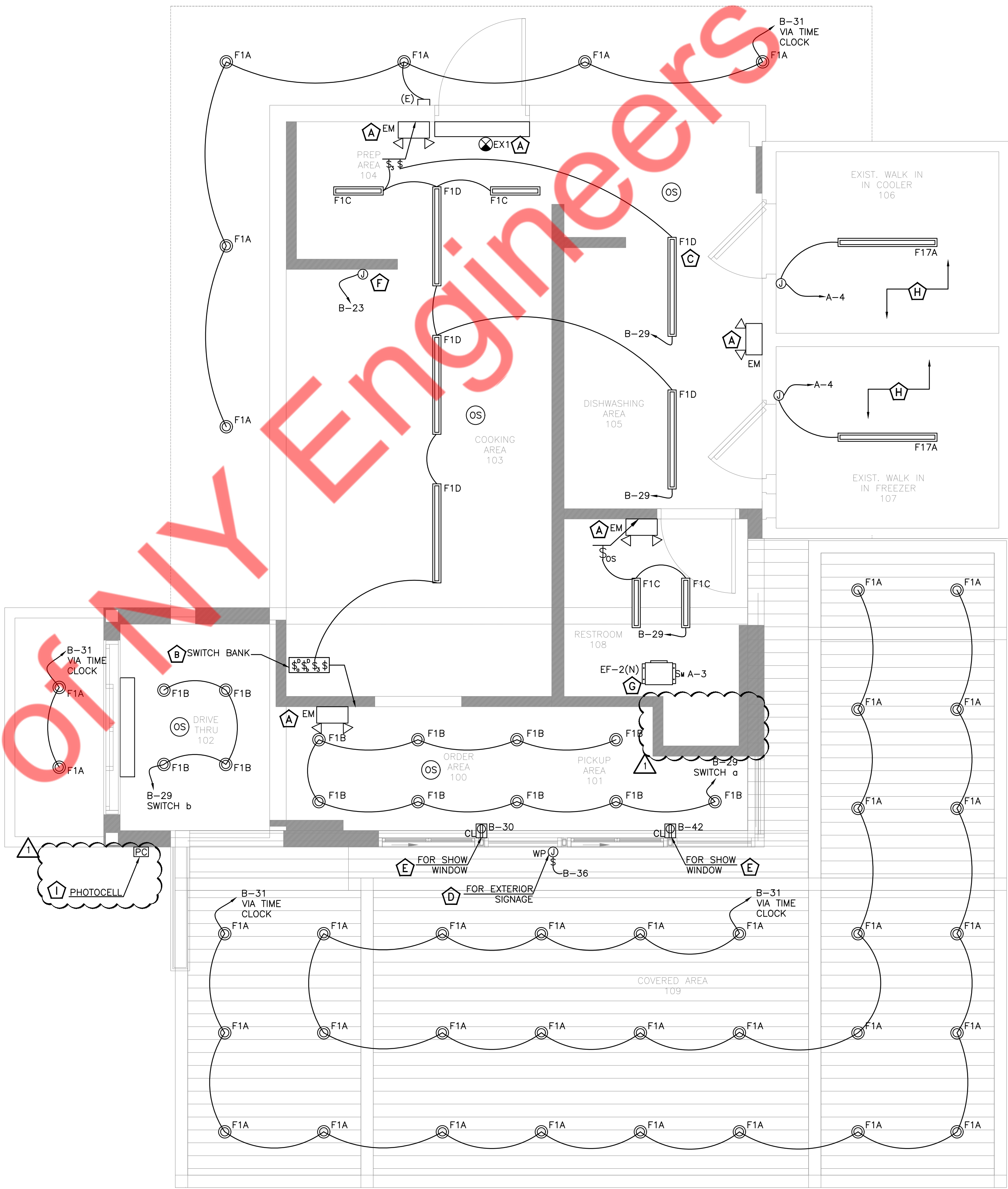
- A** CONNECT ALL NEW EMERGENCY AND EGRESS LIGHTING FIXTURES TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
- B** PROVIDE CENTRAL SWITCHING STATION FOR ALL LIGHTING IN SERVICE, KITCHEN & BOH. INCLUDE DIMMING MODULES COORDINATED WITH FIXTURE SELECTIONS. SWITCHES TO BE CENTRALIZED IN SINGLE SWITCH BANK OR TOUCHSCREEN CONTROLLER NP0D GFX OR SIMILAR.
- C** LIGHTING NEAR ELECTRICAL PANELS SHALL NOT BE CONTROLLED BY ANY AUTOMATIC MEANS AND SHALL BE COMPLIED AS PER NEC 110.26(D).
- D** PROVIDE A DISCONNECT SWITCH AT FEEDER OR BRANCH CIRCUIT ENTERS THE SIGN PER NEC 600.6, VERIFY EXACT MOUNTING HEIGHT AND LOCATION FOR SIGNAGE POWER WITH ARCHITECTURAL ELEVATIONS, SIGN VENDOR, AND LANDLORD. ROUTE CIRCUIT TO PANEL VIA TIME CLOCK.
- E** PROVIDE SHOW WINDOW RECEPTACLE AS PER N.E.C 210.62. VERIFY EXACT LOCATION WITH ARCHITECT.
- F** PROVIDE 120V DEDICATED CIRCUIT FOR NEW HOOD LIGHTING & CONTROL PANEL. COORDINATE FOR LIGHTING CONNECTION & ALL OTHER REQUIREMENT DRAWINGS/MANUFACTURER IN FIELD. BASE BID ACCORDINGLY.
- G** INTERCONNECT EXHAUST FAN EF-2(N) WITH RTU-1(E). E.C SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE MECHANICAL UNITS IN THE FIELD.
- H** E.C SHALL COORDINATE WITH WALK-IN COOLER MANUFACTURER/VENDOR FOR LIGHT FIXTURE CONNECTION AND CONTROLS. PROVIDE AS REQUIRED. BASE BID ACCORDINGLY.
- I** EXTERIOR LIGHTING CONTROL VIA PHOTOCELL. ROUTE CIRCUIT VIA PHOTOCELL. COORDINATE EXACT LOCATION OF PHOTOCELL WITH ARCHITECT/ OWNER. BASE BID ACCORDINGLY.

LIGHTING FIXTURE SCHEDULE:

Fixture Type	Discription	Manufacturer	Model Number	Bulb Type	Bulb Wattage	REMARK
F1A	RECESSED DOWNLIGHT	ALCON LIGHTING	14133-BK(BLACK)	LED	13.5	VERIFY WITH ARCHITECT/OWNER
F1B	RECESSED DOWNLIGHT	ALCON LIGHTING	14133-WH(WHITE)	LED	13.5	VERIFY WITH ARCHITECT/OWNER
F1C	2' LINEAR LIGHT FIXTURE	LITHONIA LIGHTING	FMLWL 24 MVOLT	LED	19.6W	VERIFY WITH ARCHITECT/OWNER
F1D	4' LINEAR LIGHT FIXTURE	LITHONIA LIGHTING	FMLWL LNK 48 ALO4 8SWW2(2000L)	LED	25W	VERIFY WITH ARCHITECT/OWNER
F17A	LED LIGHT FIXTURE	SIGNIFY/DAY-BRITE	FSX440L840-UNV-DIM	LED	32W	VERIFY WITH ARCHITECT/OWNER
EX1	EXIT SIGN	LITHONIA LIGHTING	LQC	LED	3W	VERIFY WITH ARCHITECT/OWNER
EM1	EXTERIOR EMERGENCY LIGHT	ELITE	ELM-LED-807-SDT-BZ	LED	6W	VERIFY WITH ARCHITECT/OWNER
EM	EM LIGHT	LITHONIA LIGHTING	EU2C	LED	2W	VERIFY WITH ARCHITECT/OWNER
(E)	EXISTING LIGHTS	EXISTING TO REMAIN				

LIGHT FIXTURE SCHEDULE NOTES:

- E.C SHALL COORDINATE WITH ARCHITECT/OWNER/VENDOR FOR MAKE, MODEL AND WATTAGES PRIOR TO PURCHASE. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES BEFORE COMMENCING ANY WORK/PURCHASE. BASE BID ACCORDINGLY.
- E.C. SHALL FIELD VERIFY THE FEASIBILITY OF INSTALLING THE SPECIFIED LIGHT FIXTURES AT ALL (OUTDOOR, KITCHEN, AND CANOPY) LOCATIONS. INFORM THE ENGINEER OF RECORD OF ANY ISSUES OR CONFLICTS PRIOR TO COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- E.C TO COORDINATE EXACT CONTROL REQUIREMENTS WITH ARCHITECT/OWNER.



1 ELECTRICAL LIGHTING PLAN
SCALE: 3/8"=1'-0"

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 LKHS ASSOCIATES. ALL RIGHTS RESERVED.

DATE: 11/21/25 ISSUED FOR:
02/19/26 ISSUED FOR PERMIT
02/19/26 ISSUED PER CITY COMMENTS

ELECTRICAL
LIGHTING PLAN

E1.0

POWER PLAN GENERAL NOTES:

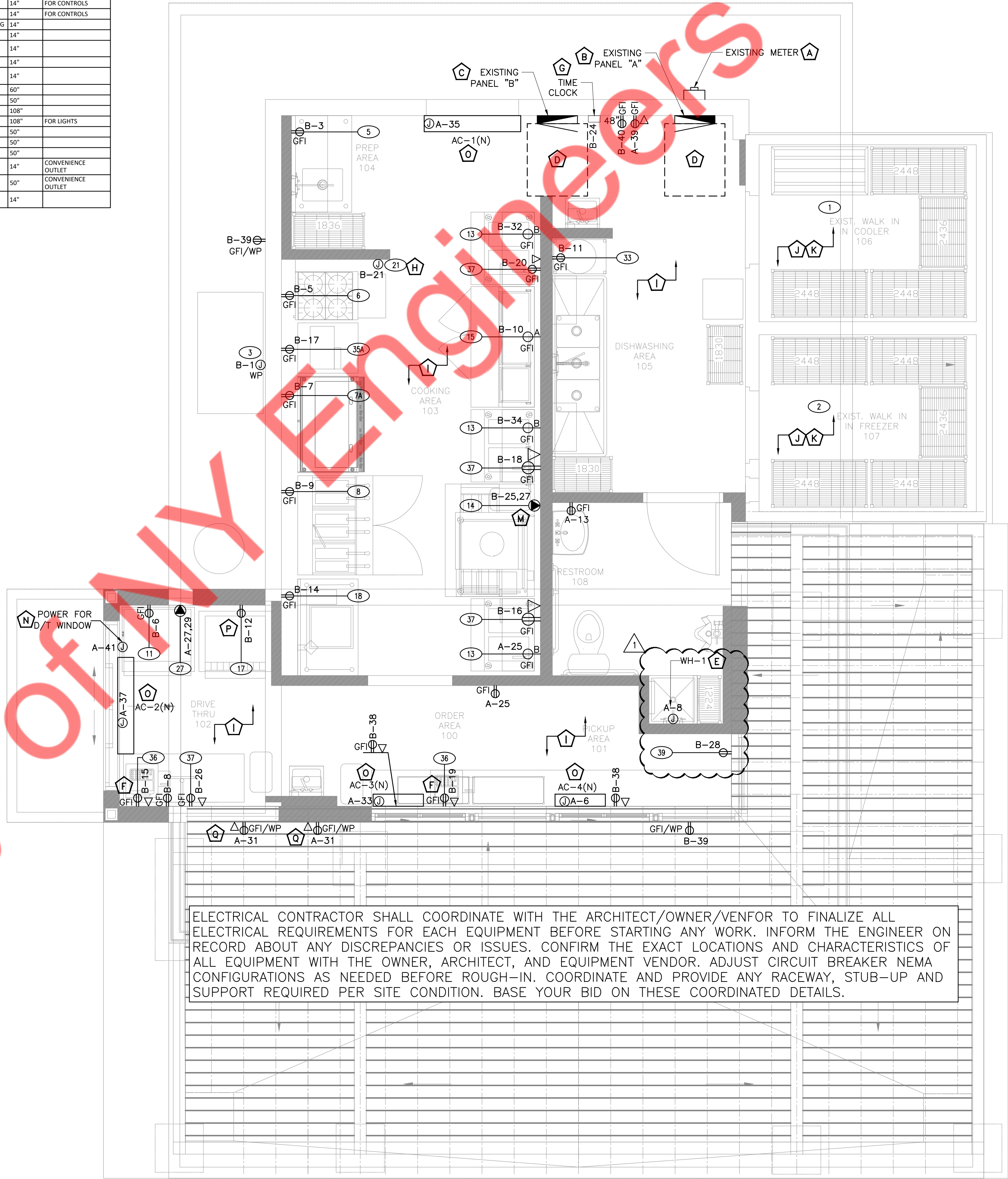
1. PROVIDE GFCI PROTECTION FOR PERSONNEL FOR ALL SINGLE PHASE RECEPTACLES RATED 50AMP OR LESS & THREE PHASE RECEPTACLES RATED 100AMP OR LESS INSTALLED IN KITCHEN AREA PER NEC 210.8(B)2. GFI PROTECTION SHALL BE PROVIDED AT BREAKER WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE PER NEC 210.8 DUE TO STATIONARY KITCHEN EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL FOOD SERVICE EQUIPMENT. CONFIRM NEMA CONFIGURATIONS – ADJUST CIRCUIT BREAKER AS REQUIRED.
3. CONFIRM MOUNTING HEIGHT AND EXACT LOCATIONS OF ALL DEVICES WITH FOOD SERVICE AND ARCHITECTURAL PLANS PRIOR TO ROUGH INS. COORDINATE WITH ARCHITECT FOR ANY CLARITY REQUIRED.
4. ELECTRICAL CONTRACTOR SHALL REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL WORK, SODA/BEER LINES, ETC.
5. PROVIDE SAFETY SWITCH FOR ALL FOOD SERVICE EQUIPMENT, AS REQUIRED, IF NOT PROVIDED INTEGRAL WITH EQUIPMENT.
6. SEE FOOD SERVICE PLANS FOR ALL HORIZONTAL MOUNTED RECEPTACLES.

POWER PLAN KEYED NOTES:

- A** EXISTING 225A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL METER SHALL REMAIN AND REUSE. E.C SHALL GET INFORMATION ABOUT THE EXISTING POWER DISTRIBUTION PRIOR TO COMMENCING ANY WORK AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. E.C SHALL VERIFY THE OPERABLE CONDITION OF EXISTING METER, REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- B** EXISTING 225A(M.C.B), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A"(NAME TO BE VERIFY ON FIELD) SHALL REMAIN AND REUSE. E.C. TO FIELD VERIFY THE EXACT SIZE, LOCATION & OPERABLE CONDITION OF THE PANEL, REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- C** EXISTING 125A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B"(NAME TO BE VERIFY ON FIELD) SHALL REMAIN AND REUSE. E.C. TO FIELD VERIFY THE EXACT SIZE, LOCATION & OPERABLE CONDITION OF THE PANEL, REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- D** 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.
- E** ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF "WH-1" IN THE FIELD. PROVIDE CIRCUIT AND CONTROL AS REQUIRED.
- F** PROVIDE (2) CAT 6 HOME RUN TO EACH POS AND ONE (1) DUPLEX 20 AMPS RECEPTACLE FOR POS. COORDINATE WITH OWNER PRIOR TO ROUGH-IN FOR EXACT HEIGHT.
- G** TIME CLOCK FOR EXTERIOR SIGNAGE. E.C SHALL COORDINATE WITH ARCHITECT/ OWNER FOR EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. BASE BID ACCORDINGLY. INTERMATIC ET90215CE OR SIMILAR.
- H** ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH FIRE SUPPRESSION SYSTEM VENDOR FOR ITS POWER REQUIREMENT AND OTHER DETAILS BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- I** E.C TO COORDINATE WITH KITCHEN EQUIPMENT VENDOR/ MANUFACTURER FOR EXACT OUTLET REQUIREMENTS, EXACT MOUNTING HEIGHT, LOCATION OF ELECTRICAL OUTLET BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- J** EXISTING WALK IN COOLER WITH ITS ELECTRICAL FIXTURE AND ELECTRICAL CONNECTION SHALL REMAIN CONNECTED TO EXISTING PANEL. E.C SHALL COORDINATE WITH WALK IN COOLER VENDOR/MANUFACTURER/ OWNER FOR THE EXACT POWER REQUIREMENT, NUMBER OF CONNECTION REQUIRED AND EXACT LOCATION OF WALK IN COOLER CONDENSER/EVAPORATOR UNIT BEFORE COMMENCING ANY WORK. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.
- K** REFER TO ELECTRICAL ROOF PLAN(SHEET E2.1) FOR EXACT POWER REQUIREMENT.
- L** E.C SHALL COORDINATE WITH #11_REFRIGERATED WORK TOP VENDOR/MANUFACTURER FOR THE EXACT POWER REQUIREMENT, EXACT MOUNTING HEIGHT, LOCATION OF ELECTRICAL OUTLET PRIOR TO COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- M** E.C SHALL COORDINATE WITH #14_MEGA TOP SANDWICH/SALAD PREP. REGRIGERATOR VENDOR/MANUFACTURER FOR THE EXACT POWER REQUIREMENT, EXACT MOUNTING HEIGHT, LOCATION OF ELECTRICAL OUTLET PRIOR TO COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- N** E.C TO COORDINATE WITH VENDOR/MANUFACTURER FOR THE EXACT POWER REQUIREMENT, EXACT MOUNTING HEIGHT, LOCATION OF ELECTRICAL J-BOX FOR D/T AUTOMATICS DOOR BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- O** E.C SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE MECHANICAL UNITS(AC-1(N), AC-2(N), AC-3(N) & AC-4(N)) IN THE FIELD. PROVIDE CIRCUIT AND CONTROL AS REQUIRED. BASE BID ACCORDINGLY.
- P** E.C SHALL COORDINATE WITH #17_POST-MIX ICE DRINK DISPENSER WITH ICE MAKER VENDOR/MANUFACTURER FOR THE EXACT POWER REQUIREMENT, EXACT MOUNTING HEIGHT, LOCATION OF ELECTRICAL OUTLET/J-BOX PRIOR TO COMMENCING ANY WORK. BASE BID ACCORDINGLY.
- Q** E.C SHALL COORDINATE WITH THE ARCHITECT/OWNER TO VERIFY THE EXACT MOUNTING HEIGHT AND LOCATIONS OF ELECTRICAL OUTLETS AND DATA PORTS FOR THE MENU BOARDS PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

EQUIPMENT SCHEDULE:

ITEM NO.	QTY.	ITEM DESCRIPTION	VOLTAGE	PHASE	AMPS	KVA	TYPE OF CONN.	NEMA	HEIGHT A.F.F.	NOTES
1	1	EXISTING WALK IN COOLER, MODULAR, REMOTE								EXISTING TO REMAIN
2	1	EXISTING WALK IN FREEZER, MODULAR, REMOTE								EXISTING TO REMAIN
3	1	USED OIL STORAGE TANK	120	1	8.34	1.00	JB			DEDICATED CIRCUIT
5	1	WORK TABLE W PREP SINK	120	1	6		DUPLEX RECEPTACLE	5-15P	50"	CONVENIENCE OUTLET
6	1	RANGE, 24", 4 OPEN BURNERS	120	1	4.16	0.50	DUPLEX RECEPTACLE	5-15P	14"	FOR CONTROLS
7A	1	GRIDDLE, GAS, COUNTERTOP WITH STAND (68)	120	1	4.16	0.50	DUPLEX RECEPTACLE	5-15P	14"	FOR CONTROLS
8	1	GASFRYER BATTERY	120	1	12	1.44	DUPLEX RECEPTACLE	5-15P-2+G	14"	
11	1	REFRIGERATED WORKTOP	120	1	2	0.24	DUPLEX RECEPTACLE	5-15P	14"	
13	3	HOT FOOD WELL TABLE, ELECTRIC WITH DOUBLE OVERSHELF	120	1	17	2.04	SINGLE RECEPTACLE	5-30P	14"	
14	1	CONVEYOR OVEN, ELECTRIC	120/240	1	42	10	SINGLE RECEPTACLE	14-50R	14"	
15	1	MEGA TOP SANDWICH / SALAD PREPARATION REFRIGERATOR WITH DOUBLE OVERSHELF	120	1	5.4	0.65	SINGLE RECEPTACLE	5-15P	14"	
17	1	POST-MIX ICE DRINK DISPENSER WITH ICE MAKER	120	1	3	0.36	DUPLEX RECEPTACLE	5-15P	60"	
18	1	HEAT LAMP	120	1	7.3	0.88	DUPLEX RECEPTACLE	5-15P	50"	
21	1	FIRE SUPPRESSION SYSTEM	120	1	4.16	0.50	JB		108"	
22	1	EXHAUST HOOD TYPE 1	120	1	4.16	0.50	JB		108"	FOR LIGHTS
27	1	SHAKE MACHINE	208	1	10.1	2.10	DUPLEX RECEPTACLE	6-20P	50"	
33	1	POTATO PEELER	120	1	5	0.60	DUPLEX RECEPTACLE	5-15P	50"	
35A	1	TOASTER, CONTACT GRILL WITH STAND (388)	120	1	14.7	1.76	DUPLEX RECEPTACLE	5-15P	50"	
36	2	POS	120	1	1.5		DUPLEX RECEPTACLE	5-15P	14"	CONVENIENCE OUTLET
37	4	KITCHEN DISPLAY	120	1	1.5		DUPLEX RECEPTACLE	5-15P	50"	CONVENIENCE OUTLET
39	1	ICE CREAM DIPPING CABINET	120	1	5.16		DUPLEX RECEPTACLE	5-15P	14"	



A E.C. 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.

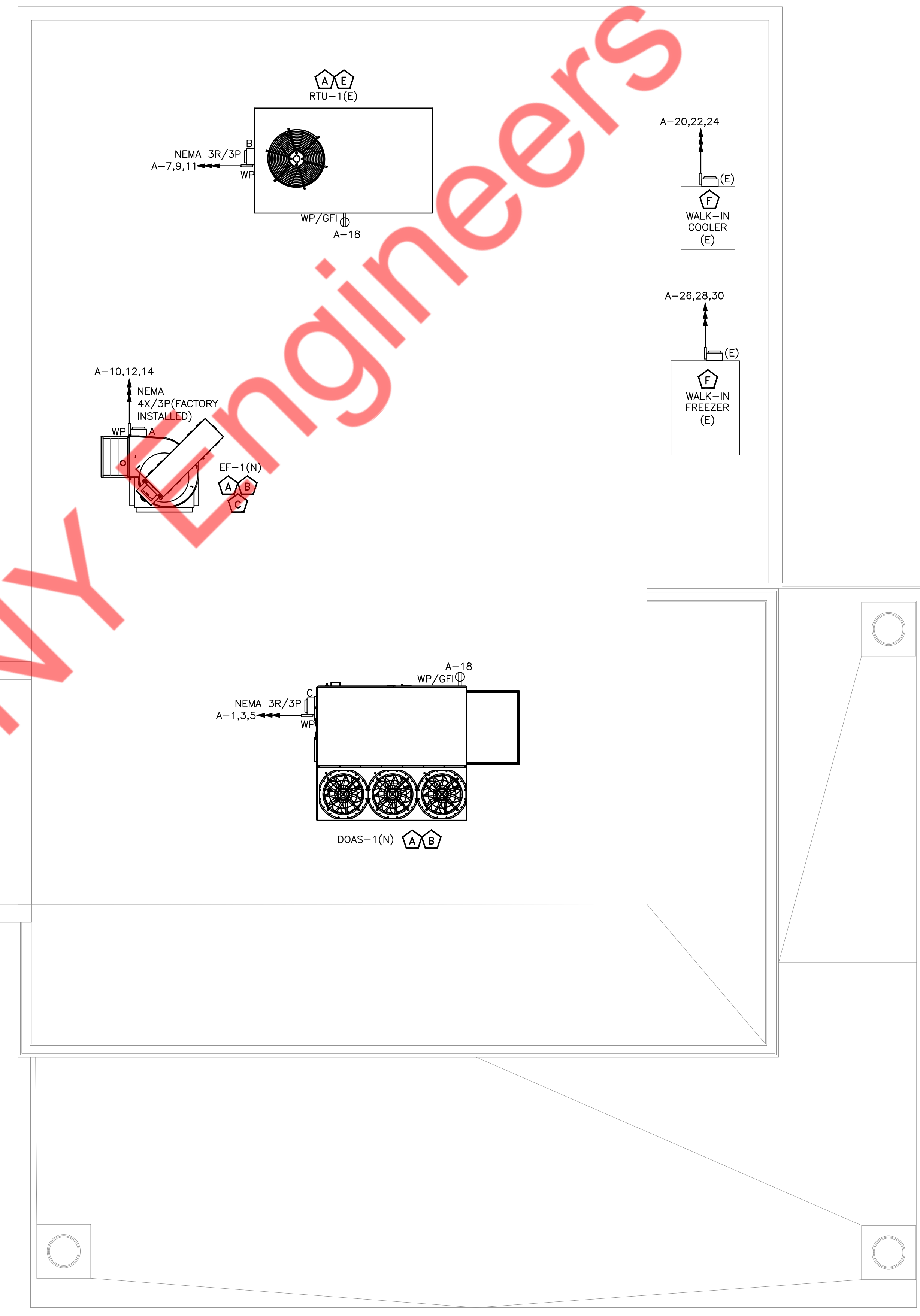
B ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.

C EXHAUST FAN EF-1(N) SHALL BE INTERLOCKED WITH DOAS-1(N). E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND CONTROLS IN FIELD PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

D 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.

E EXISTING MECHANICAL EQUIPMENT WITH ITS ELECTRICAL CONNECTION AND ELECTRICAL FIXTURE SHALL BE REMAIN. E.C. SHALL VERIFY THE OPERABLE CONDITION OF THE ELECTRICAL CONNECTION AND ELECTRICAL FIXTURE ON FIELD. REPLACE IF FOUND INOPERABLE. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.

F EXISTING WALK IN COOLER WITH ITS ELECTRICAL FIXTURE AND ELECTRICAL CONNECTION SHALL REMAIN CONNECTED TO EXISTING PANEL. E.C. SHALL COORDINATE WITH WALK IN COOLER VENDOR/MANUFACTURER/ OWNER FOR THE EXACT POWER REQUIREMENT, NUMBER OF CONNECTION REQUIRED AND EXACT LOCATION OF WALK IN COOLER CONDENSER/EVAPORATOR UNIT BEFORE COMMENCING ANY WORK. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.



  **ELECTRICAL ROOF PLAN**
SCALE: 3/8" = 1'-0"

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.

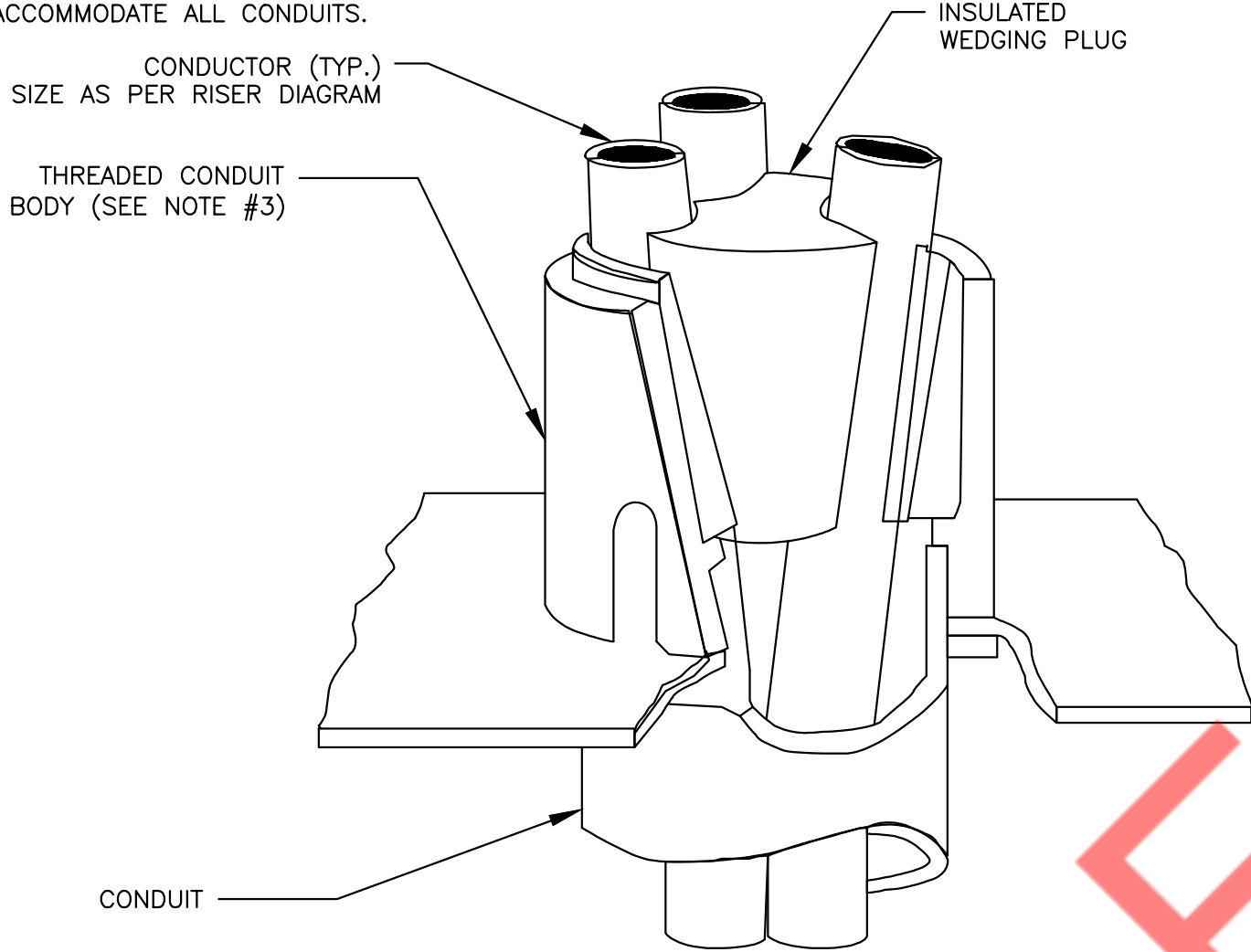
COPYRIGHT 2025 ILEXIS ASSOCIATES. ALL RIGHTS RESERVED

DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

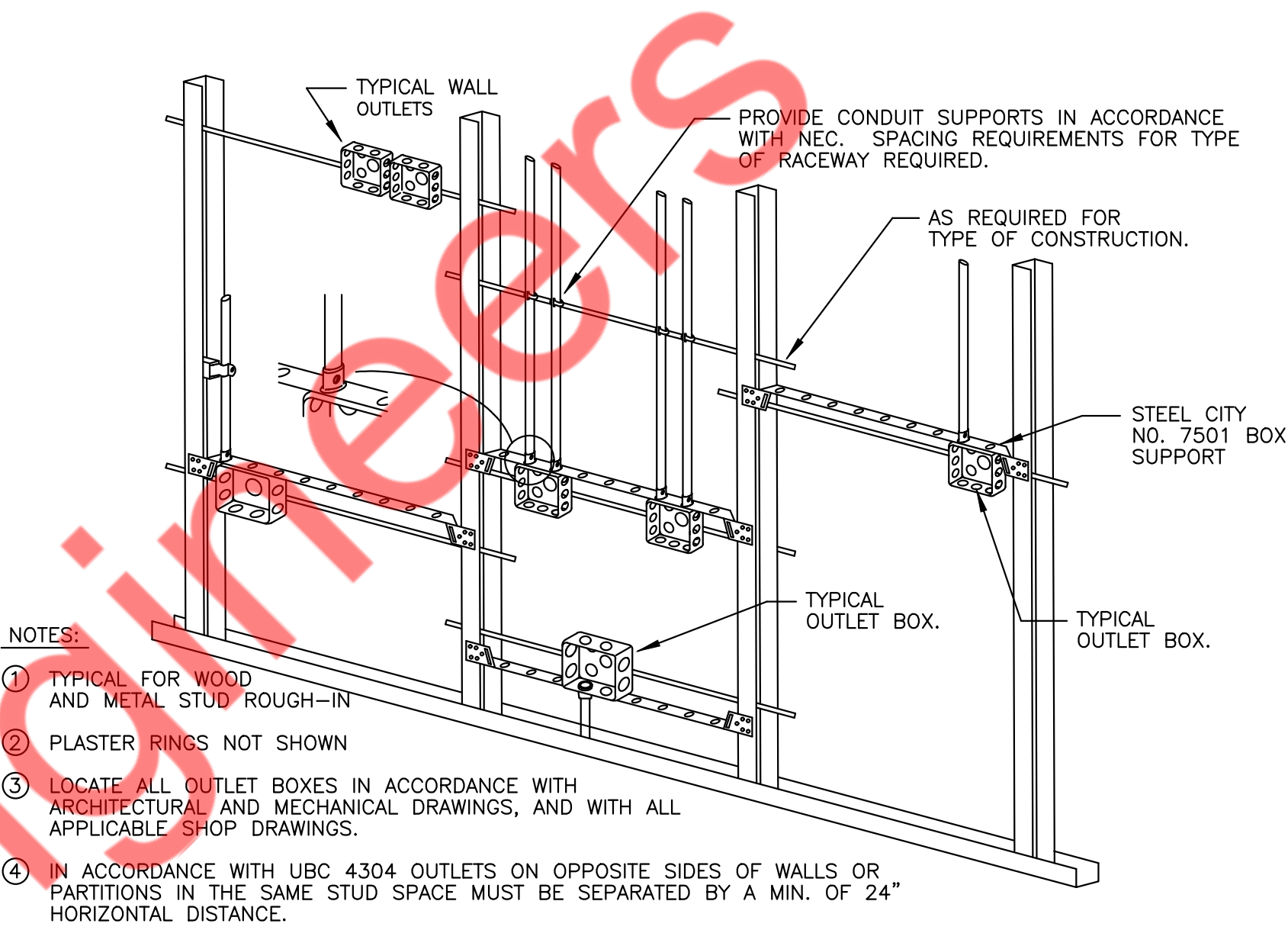
E2.1

NOTES:

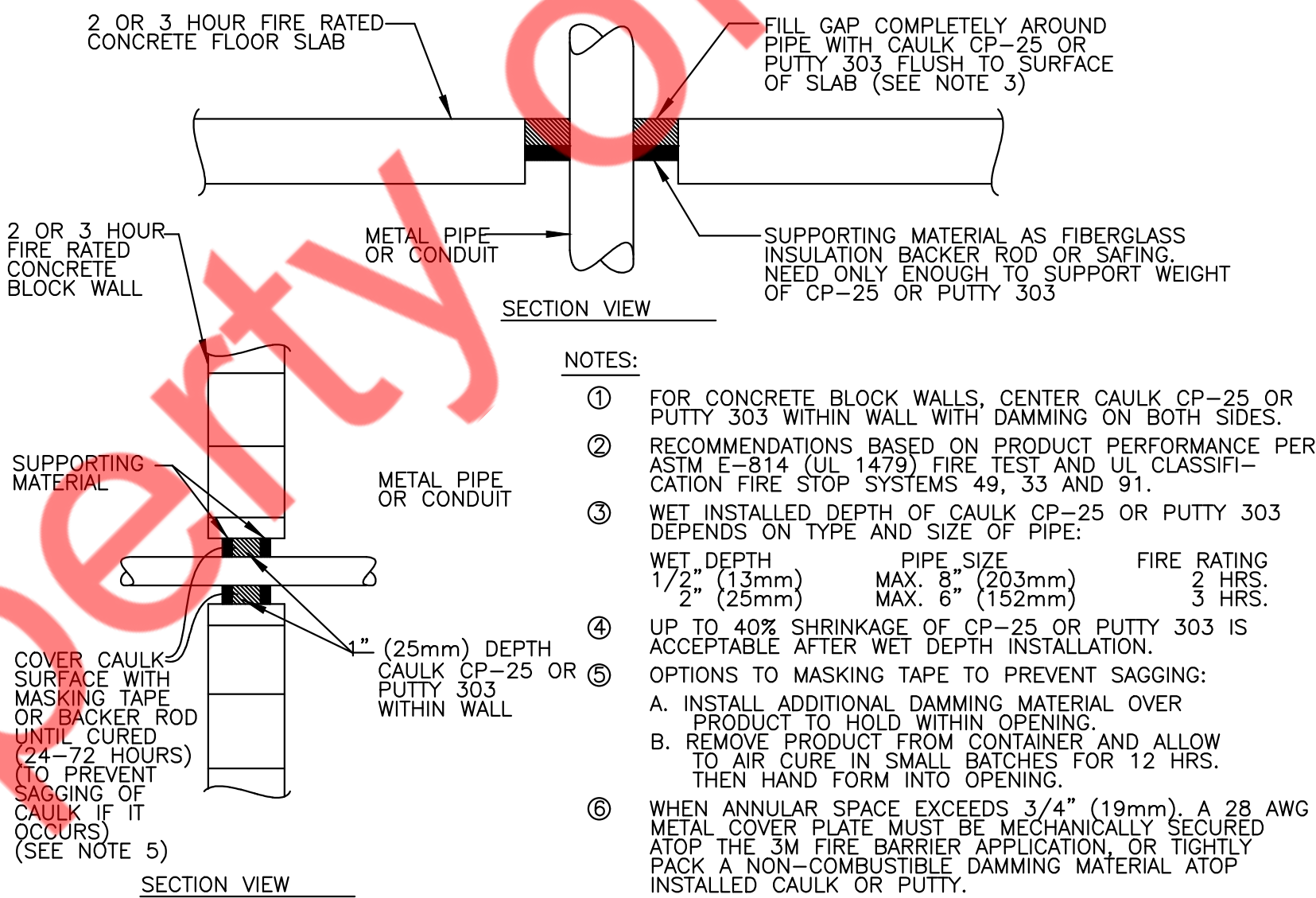
1. ALL CONDUCTORS IN VERTICAL RACEWAYS SHALL BE SUPPORTED IN ACCORDANCE WITH ARTICLE 300.19 OF NEC. CABLE SUPPORTS SHALL BE LOCATED AT THE INTERVALS REQUIRED BY THE NEC.
2. CABLE SUPPORT SYSTEM SHALL BE AS MANUFACTURED BY O-Z GEDNEY WITH pOZI-GRIP "S-STYLE" WEDGING PLUG OR APPROVED EQUAL.
3. FOR THREADLESS CONDUIT (RIGID, IMC OR EMT), ATTACH CONDUIT BODY TO MALE THREADS OF A SET SCREW OR COMPRESSION CONNECT, AS PERMITTED BY SPECIFICATIONS.
4. PROVIDE PULL BOX AT EACH LOCATION OF CABLE SUPPORTS. PULL BOX SHALL BE SIZED AS PER CODE TO ACCOMMODATE ALL CONDUITS.



4 VERTICAL CABLE SUPPORT DETAIL
E3.0 N.T.S

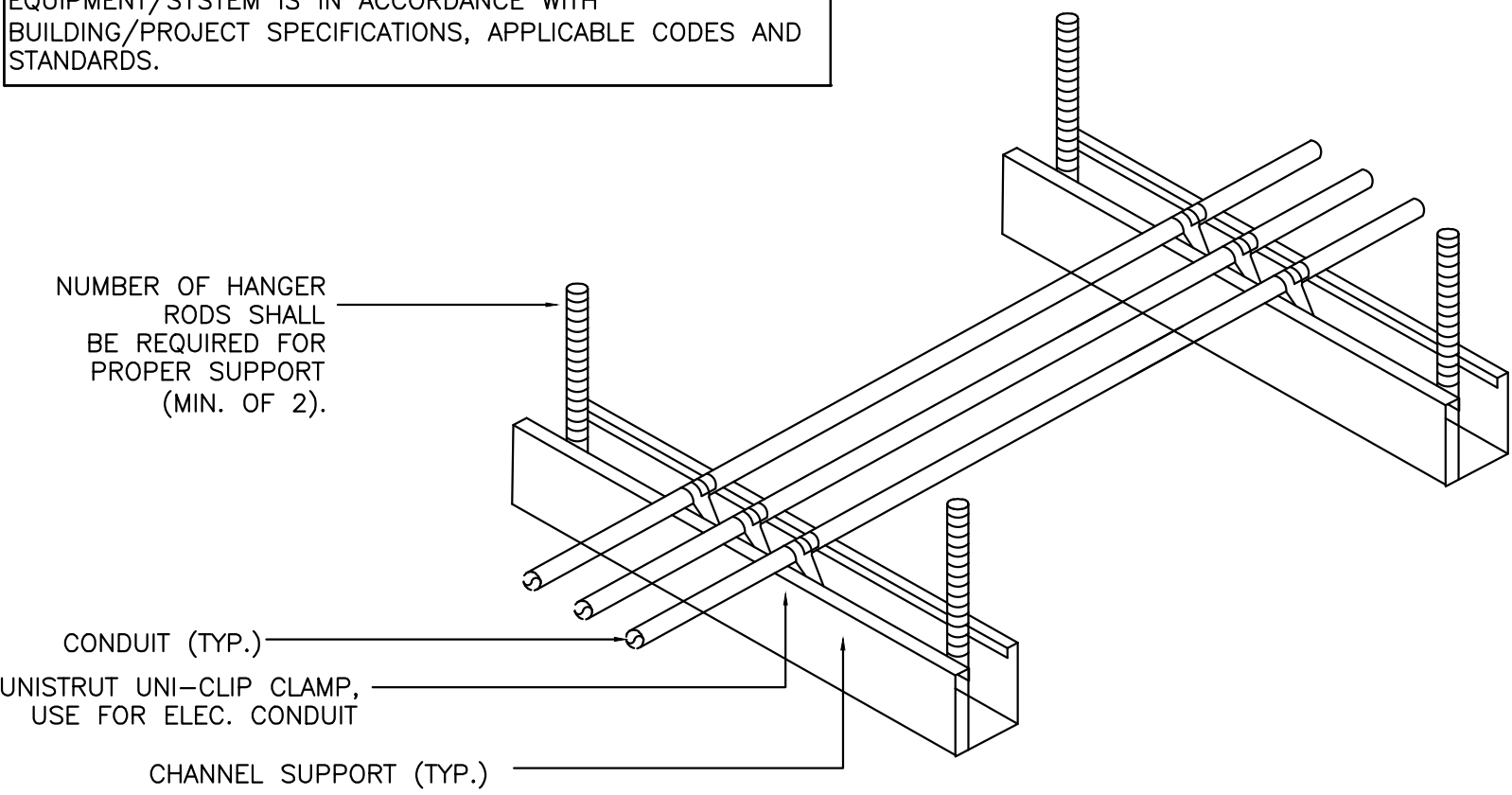


2 DETAIL TYPICAL ROUGH-IN REQUIREMENTS
E3.0 N.T.S



3 FIRE STOP DETAIL
E3.0 N.T.S

NOTE:
THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.



1 CONDUIT SUPPORT DETAIL
E3.0 N.T.S

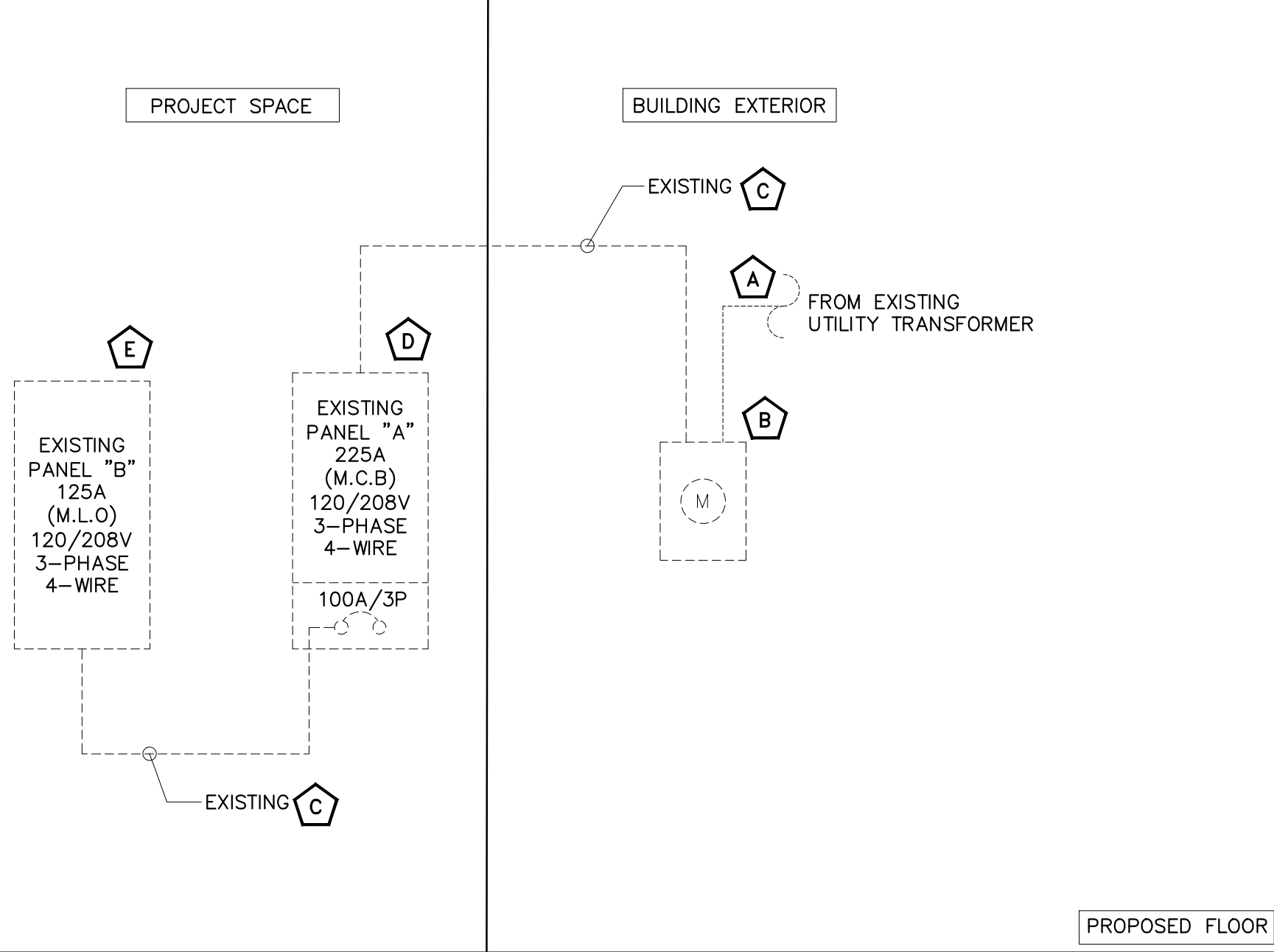
CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES. COPYRIGHT 2025 LEVITS ASSOCIATES. ALL RIGHTS RESERVED.	
DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

ELECTRICAL
DETAILS

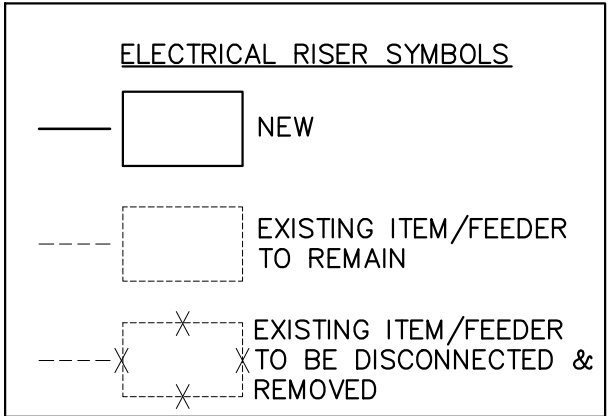
E3.0

ELECTRICAL RISER DIAGRAM:



ELECTRICAL RISER 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 ANY DISCREPANCY.
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 ONLY.



ELECTRICAL RISER KEYED NOTES:

- A** EXISTING 225A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE FEEDER FROM THE UTILITY ELECTRICAL SUPPLY TO REMAIN. E.C. SHALL COORDINATE WITH THE OWNER/UTILITY FOR EXACT POWER DISTRIBUTION. REPORT TO ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.
- B** EXISTING 225A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL METER FOR THE PROJECT SPACE SHALL REMAIN AND REUSE. E.C. SHALL GET INFORMATION ABOUT THE EXISTING POWER DISTRIBUTION PRIOR TO COMMENCING ANY WORK AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. E.C. SHALL VERIFY THE OPERABLE CONDITION OF EXISTING METER, REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- C** EXISTING FEEDERS TO REMAIN. E.C. TO VERIFY OPERABLE CONDITION OF FEEDER'S IN FIELD AND PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- D** EXISTING 225A(M.C.B), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A"(NAME TO BE VERIFY ON FIELD) SHALL REMAIN AND REUSE. E.C. TO FIELD VERIFY THE EXACT SIZE, LOCATION & OPERABLE CONDITION OF THE PANEL, REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- E** EXISTING 125A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B"(NAME TO BE VERIFY ON FIELD) SHALL REMAIN AND REUSE. E.C. TO FIELD VERIFY THE EXACT SIZE, LOCATION & OPERABLE CONDITION OF THE PANEL, REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.

ELECTRICAL PANEL SCHEDULES:

PANEL: A(E) A										MOUNTING: REFER TO PLAN (E2.0)					
208Y/120		VOLTS,		3		PHASE,		4		WIRE		PANEL LOCATION: REFER TO PLAN (E2.0)			
MAIN CB:		225A		MLO:		N/A		BUS:		EXISTING		MIN,		FED FROM: REFER TO RISER DIAGRAM (E4.0)	
"NOTE: L:LIGHTING, R: RECEPTACLES, K:KITCHEN/EQUIPMENTS, C: REFRIGERATION, H: HVAC, M: MOTOR, O-OTHER/MISCELLANEOUS "															
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	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							
B	1	80-3P	DOAS-1(N)	H	7.79	3#4, #8G, 1" C	7.79			2#12, #12G, 3/4" C	0.10	L	SPARE	20*	2
	3			H	7.79			7.89			0.28	H	COOLER/FREEZER LIGHTS	20*	4
	5			H	7.79				8.07		0.28	H	AC-4(N)	15	6
	7	40-3P	RTU-1(E)	H	3.12	EXISTING	3.60			2#12, #12G, 3/4" C	0.48	O	WH-1	20	8
	9			H	3.12			4.00			0.88	M			10
	11			H	3.12				4.00		0.88	M	EF-1(N)	20-3P	12
	13	20	RECEPTACLE_RESTROOM	R	0.18	2#12, #12G, 3/4" C	1.06			2#12, #12G, 3/4" C	0.88	M	EF-2(N)	20	14
	15						0.05		0.05		M	EF-2(N)	20	16	
	17	30-3P	SPARE					0.36	2#12, #12G, 3/4" C		0.36	R	RECEPTACLE_ROOF	20	18
	19						0.62				0.62	O		20	20
21	30	#13_HOT FOOD WELL	E	2.04	2#12, #12G, 3/4" C		2.66		EXISTING	0.62	O	WALK-IN COOLER (E)	15-3P	22	
23	20	PYLON SIGNAGE (E)	L	1.80	EXISTING			2.42		0.62	O		24	24	
25	20	RECEPTACLE_ORDER AREA	R	0.18	2#12, #12G, 3/4" C	2.03				1.85	O		26	26	
27	20-2P	#27_SHAKE MACHINE	E	1.05	2#12, #12G, 3/4" C		2.90		EXISTING	1.85	O	WALK-IN FREEZER (E)	40-3P	28	
29			E	1.05				2.90		1.85	O		30	30	
31			20	RECEPTACLE_MENU BOARD		R	0.36	2#12, #12G, 3/4" C		9.89			9.53	O	
E	33	20	AC-3(N)	H	0.28	2#12, #12G, 3/4" C		9.80	EXISTING	9.53	O	SUB PANEL "B(E)"	100-3P	34	
	35	20	AC-1(N)	H	0.28	2#12, #12G, 3/4" C				9.80	9.53	O		36	36
D	37	20	AC-2(N)	H	0.28	2#12, #12G, 3/4" C	0.28								38
	39	20	RECEPTACLE_BOH	R	0.18	2#12, #12G, 3/4" C		0.18				SPARE	100-2P	40	40
TOTAL CONNECTED LOAD (KVA)						25.27	27.49	27.56							

PANEL: B(E) A										MOUNTING: REFER TO PLAN (E2.0)					
208Y/120		VOLTS,		3		PHASE,		4		WIRE		PANEL LOCATION: REFER TO PLAN (E2.0)			
MAIN CB:		N/A		MLO:		125A		BUS:		EXISTING		MIN,		FED FROM: REFER TO RISER DIAGRAM (E4.0)	
"NOTE: L:LIGHTING, R: RECEPTACLES, K:KITCHEN/EQUIPMENTS, C: REFRIGERATION, H: HVAC, M: MOTOR, O-OTHER/MISCELLANEOUS "															
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	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	#3_USED OIL STORAGE TANK	E	1.00	2#12, #12G, 3/4" C	1.00						SPARE	30-2P	2	
3	20	#5_WORK TABLE PREP SINK	R	0.72	2#12, #12G, 3/4" C		0.72							4	
5	20	#6_RANGE, 24", 4 OPEN BURNERS	E	0.50	2#12, #12G, 3/4" C			0.86	2#12, #12G, 3/4" C	0.36	E			#11_REFRIGERATED WORK TOP	20
7	20	#7A_GRIDDLE, GAS, COUNTERTOP WITH STAND(6B)	E	0.50	2#12, #12G, 3/4" C	0.68			2#12, #12G, 3/4" C	0.18	R	RECEPTACLE_CONVENINENCE	20	8	
9	25	#8_GAS FRYER BATTERY	E	1.44	2#12, #12G, 3/4" C		2.06		2#12, #12G, 3/4" C	0.62	E	#15_MEGA TOP SANDWITCH	20	10	
11	20	#33_POTATO PEELER	E	0.60	2#12, #12G, 3/4" C			0.96	2#12, #12G, 3/4" C	0.36	E	#17_POST MIX ICE DISPENSER	20	12	
13	20*	SPARE				0.88			2#12, #12G, 3/4" C	0.88	E	#18_HEAT LAMP	20	14	
15	20	RECEPTACLE_#36-POS	R	0.18	2#12, #12G, 3/4" C		0.36		2#12, #12G, 3/4" C	0.18	R	RECEPTACLE_#37-KITCHEN DISPLAY	20	16	
17	20	#35A_TOASTER, CONTACT GRILL WITH STAND (38B)	E	1.76	2#12, #12G, 3/4" C			1.94	2#12, #12G, 3/4" C	0.18	R	RECEPTACLE_#37-KITCHEN DISPLAY	20	18	
19	20	RECEPTACLE_#36-POS	R	0.18	2#12, #12G, 3/4" C	0.36			2#12, #12G, 3/4" C	0.18	R	RECEPTACLE_#37-KITCHEN DISPLAY	20	20	
21	20	#21_HOOD FIRE SUPPRESSION SYSTEM	O	0.50	2#12, #12G, 3/4" C		0.50					SPARE	20*	22	
23	20	#22-HOOD LIGHTING/CONTROL PANEL	O	0.50	2#12, #12G, 3/4" C			0.90	2#12, #12G, 3/4" C	0.40	L	EXTERIOR POLE LIGHTS	20*	24	
25	50-2P	#14_CONVEYOR OVEN, ELECTRIC	E	5.00	#8, #10G, 3/4" C	5.18			2#12, #12G, 3/4" C	0.18	R	RECEPTACLE_#37-KITCHEN DISPLAY	20	26	
27			E	5.00			5.62		0.62	E	#39_ICE CREAM DIPPING CABINET	20	28		
29			L	0.50				2.30	2#12, 1#12G, 3/4" C	1.80	L	RECEPTACLE_SHOW WINDOW	20	30	
31	20	LIGHTING COOKING, PREP, STORAGE AREA, SERVICE AREA	L	0.57	2#12, #12G, 3/4" C	2.61			2#10, #10G, 3/4" C	2.04	E	#13_HOT FOOD WELL	30	32	
33	20	DRIVE THRU EQUIPMENTS	O	0.50	2#12, #12G, 3/4" C		2.54		2#10, #10G, 3/4" C	2.04	E	#13_HOT FOOD WELL	30	34	
35	20	EXTERIOR POLE LIGHTS	L	0.40	2#12, #12G, 3/4" C			1.60	2#12, 1#12G, 3/4" C	1.20	L	LIGHTING - J. BOX EXT.SIGNAGE/TIME CLOCK	20	36	
37	20	DRIVE THRU EQUIPMENTS	O	0.50	2#12, #12G, 3/4" C	0.86			2#12, #12G, 3/4" C	0.36	R	RECEPTACLE_CONVENINENCE	20	38	
39	20	RECEPTACLE_FRONT AREA	R	0.36	2#12, #12G, 3/4" C		0.54		2#12, #12G, 3/4" C	0.18	R	RECEPTACLE_BOH	20	40	
41	20	POWER FOR D/T WINDOW	O	0.60	2#12, #12G, 3/4" C			2.40	2#12, 1#12G, 3/4" C	1.80	L	RECEPTACLE_SHOW WINDOW	20	42	
TOTAL CONNECTED LOAD (KVA)						11.57	12.34	10.96							

ELECTRICAL PANEL SCHEDULE GENERAL NOTE:

1. ALL THE CIRCUITING SHOWN FOR THE EXISTING PANELS "A" & "B" (NAME TO VERIFY ON FIELD) ARE FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING OF THE EXISTING DEVICES IN FIELD AND INFORM ENGINEER FOR DISCREPANCIES. THE NEWLY ADDED CIRCUIT BREAKER IN THE EXISTING ELECTRICAL PANELS SHALL BE COMPATIBLE WITH THE PANEL.
2. ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.

ELECTRICAL PANEL SCHEDULE KEYED NOTE:

- A** ALL CIRCUITING SHOWN ON PANEL SCHEDULE A(E) & B(E) IS FOR REFERENCE ONLY. THE ELECTRICAL CONTRACTOR (E.C.) SHALL FIELD-VERIFY EXISTING CONDITIONS, CONFIRM THE ACTUAL ARRANGEMENT OF CIRCUIT BREAKERS IN THE EXISTING PANEL, AND RE-ARRANGE CIRCUITING AS REQUIRED PRIOR TO COMMENCING ANY WORK. ANY NEW BREAKERS REQUIRED, BASED ON THE EXISTING ARRANGEMENT, SHALL BE INCLUDED IN THE BID. E.C. SHALL VERIFY THE EXACT SIZE OF THE EXISTING PANEL AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES. THE E.C. SHALL ALSO ENSURE THAT ALL NEW BREAKERS ARE COMPATIBLE WITH THE EXISTING PANEL AND THAT THE PANEL SCHEDULE BREAKER RATINGS ARE MATCHED FOR BIDDING PURPOSES. BASE BID ACCORDINGLY.
- B** PROVIDE (1) 80A/3P BREAKER IN PLACE OF (1) 30A/3P BREAKER. BASE BID ACCORDINGLY.
- C** PROVIDE (2) 30A/1P BREAKERS IN PLACE OF (2) SPACES. BASE BID ACCORDINGLY.
- D** PROVIDE (13) 20A/1P BREAKERS IN PLACE OF (13) SPACES. BASE BID ACCORDINGLY.
- E** PROVIDE (2) 20A/1P BREAKERS IN PLACE OF (1) 30A/2P BREAKER. BASE BID ACCORDINGLY.

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.

COPYRIGHT 2025 LUVIS ASSOCIATES. ALL RIGHTS RESERVED

DATE: 11/21/25 ISSUED FOR: ISSUED FOR PERMIT

02/19/26 ISSUED PER CITY COMMENTS

ELECTRICAL RISER
DIAGRAM & PANEL
SCHEDULES

E4.0

GENERAL SITE PLAN NOTES:

1. ALL UNDERGROUND CONDUIT SHALL BE PVC. PROVIDE GALVANIZED STEEL SLEEVE WHEN PASSING THROUGH THE FOUNDATION WALL, CONCRETE FLOOR. EXTEND CONDUIT 6" ABOVE THE FINISHED FLOOR AND PROVIDED WITH PROTECTIVE GROMMET.
2. ALL CONDUIT SHALL BURIED AT LEAST 18" BELOW FINISHED GRADE.
3. ALL INSTALLED CONDUIT SHALL BE PROVIDED WITH A PULL STRING.
4. LOOP PLACEMENT IS DEFINED IN TERMS OF WHERE THE VEHICLE ENGINE BLOCK WOULD BE OVER THE LOOP IF THE CENTER OF THE DRIVER'S SIDE WINDOW IS AT THE SERVICE POINT. THE GOAL IS TO ENSURE THERE IS ONLY ROOM FOR ONE VEHICLE BEHIND THE PREVIOUS LOOP AND THE MERGE POINT; THIS IS HOW SEQUENCING IS POSSIBLE.
5. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION AND PROPER LOCATION OF EXISTING PYLON SIGNS.
6. GENERAL USE CABLING SHALL BE OF #12 AWG MINIMUM AT 120V FOR CABLE UPTO 80 FEET. FOR CABLE ABOVE 80 FEET USE #10 AWG CABLES. ADJUST WIRE SIZE FOR A MAXIMUM VOLTAGE DROP OF 3%.

LIGHTING PLAN KEYED NOTES:

- A E.C. TO COORDINATE WITH ARCHITECT/OWNER/VENDOR FOR EXACT LOCATION OF POLE LIGHTS IN FIELD AND PROVIDE POWER AND CONDUIT ACCORDINGLY. BASE BID ACCORDINGLY.
- B E.C. TO COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF MENU BOARD, ORDER CANOPY WITH SPEAKER POST, DIRECTIONAL SIGN, POLE LIGHT IN FIELD. BASE BID ACCORDINGLY.
- C PROVIDE (3) 1" CONDUITS TO SPEAKER POST, (1) CONDUIT FOR ELECTRICAL CONNECTION, (1) CONDUIT FOR VOICE WITH PULL STRING, (1) CONDUIT SPARE WITH PULL STRING. E.C. SHALL COORDINATE NUMBER OF CONDUITS AND FINAL LOCATION WITH OWNER AND VENDOR. BASE BID ACCORDINGLY.
- D PROVIDE (3) 1" CONDUITS TO MENU BOARD, (1) CONDUIT FOR ELECTRICAL CONNECTION, (1) CONDUIT FOR DATA WITH PULL STRING, (1) CONDUIT SPARE WITH PULL STRING. BASE BID ACCORDINGLY. E.C. SHALL COORDINATE NUMBER OF CONDUITS AND FINAL LOCATION WITH OWNER AND VENDOR. BASE BID ACCORDINGLY.
- E E.C. TO VERIFY FINAL LOCATION OF OUTDOOR DRIVE THRU EQUIPMENTS, SPEAKER POST/ORDER CANOPY, DETECTION LOOPS, PREVIEW BOARD AND POLE LIGHT CONDUITS TO AVOID ELECTRICAL SERVICE NOT ILLUSTRATED FOR CLARITY.
- F E.C. TO FIELD VERIFY EXACT LOCATION AND ROUTING OF EXISTING CONDUIT FOR EXISTING PYLON SIGN. EXISTING CONDUIT SHALL REMAIN SAME, REPLACE WITH NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

FLOOD ZONE DEVICE NOTES

- o. ALL ELECTRICAL EQUIPMENT, WIRING, DEVICES, CONDUITS, JUNCTION BOXES AND SERVICE FACILITIES BELOW THE BASE FLOOD/ FLOOD PROTECTION ELEVATION SHALL BE DESIGNED AND INSTALLED TO BE WATERPROOF/ WATERTIGHT AND RESIST FLOOD DAMAGE PER IBC SECTION 1612, ASCE 24 SECTION 7.3. NO ELECTRICAL COMPONENT SHALL BE INSTALLED BELOW THE BASE FLOOD ELEVATION UNLESS PROTECTED AGAINST WATER INTRUSION AND ACCUMULATION DURING A DESIGN FLOOD. BASE BID ACCORDINGLY.

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 LEVITS ASSOCIATES. ALL RIGHTS RESERVED

DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

1

ELECTRICAL
SITE PLAN

E5.0

1 ELECTRICAL SITE PLAN
SCALE: 1/16"=1'-0"
0 4 8 16 32'

— SAN —	SANITARY PIPING
— GSAN —	GREASE SANITARY PIPING
— — — V — — —	VENT PIPING
— ST —	STORM
— — — — —	COLD WATER PIPING
— — — — —	EXISTING COLD WATER LINE
— — — — —	HOT WATER PIPING
— — — — —	HOT WATER RETURN PIPING
— — — — — G — — — — —	GAS PIPING
— — — — — — — — — —	P-TRAP
— — — — — — — — — —	PIPE UP
— — — — — — — — — —	PIPE DROP
— — — — — — — — — —	FLOOR CLEANOUT
— — — — — — — — — —	SHUT-OFF VALVE
— — — — — — — — — —	CHECK VALVE
— — — — — — — — — —	BALANCING VALVE
— — — — — — — — — —	GAS SHUTOFF VALVE
	POINT OF NEW CONNECTION
	FLOOR SINK
	FLOOR DRAIN

FCO	FLOOR CLEANOUT
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
SAN	SANITARY
GSAN	GREASE SANITARY
V	VENT
WC	WATER CLOSET
TYP.	TYPICAL
DN	DOWN
FD	FLOOR DRAIN
WH-1	WATER HEATER
ET-1	EXPANSION TANK
LAV	LAVATORY
VTR	VENT THROUGH ROOF
FD	FLOOR DRAIN
FS	FLOOR SINK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
I.D	INDIRECT DRAIN
V.I.F	VERIFY IN FIELD
RD	ROOF DRAIN

1. BASIC PLUMBING REQUIREMENTS, MATERIALS AND METHODS

1.01 SCOPE

A. PROVIDE ALL MATERIAL, TOOLS, SUPERVISION AND LABOR INCLUDING ALL MISCELLANEOUS AND INCIDENTAL ITEMS REQUIRED FOR COMPLETE AND OPERABLE PLUMBING INSTALLATIONS AS SHOWN OR DESCRIBED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING AND NEW CONDITIONS AND MATERIALS WITHIN THE CONSTRUCTION AREA. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION.

C. OBTAIN ALL PERMITS, PAY ALL PERMIT FEES AND SCHEDULE ALL REQUIRED INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION CERTIFICATES SHALL BE FORWARDED TO THE OWNER FOR RECORD.

D. THE GENERAL CONDITIONS OF THE CONTRACT AND ALL DIVISION 1 REQUIREMENTS APPLY TO THE WORK OF THIS SECTION.

E. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE CONDITIONS AND THE EXTENT OF THE WORK. BY COMMENCING WORK, THE CONTRACTOR ACKNOWLEDGES HIS CONFIRMATION OF ALL CONDITIONS AS ACCEPTABLE WITH REFERENCE TO HIS CONTRACT, SCOPE OF WORK AND BID PRICE SUCH THAT NO ADDITIONAL COMPENSATION SHALL BE FORTHCOMING FOR UNFORESEEN EXISTING CONDITIONS.

F. IN ALL AREAS SUBJECT TO FREEZING CONDITIONS, THE CONTRACTOR SHALL PROVIDE FREEZE PROTECTION FOR ALL DOMESTIC WATER PIPING INSTALLED UNDER HIS CONTRACT.

G. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE CONTRACTOR FOR ELECTRICAL WORK. THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT. THE CONTRACTOR FOR ELECTRICAL WORK IS RESPONSIBLE FOR LINE VOLTAGE POWER WIRING ONLY.

H. COLOR AND FINISH SPECIFICATIONS FOR ALL MATERIALS, INCLUDING PAINTING OF PIPING, SHALL BE AS DIRECTED AND/OR APPROVED BY THE ARCHITECT.

I. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER SHALL BE INCLUDED AS IF SPECIFIED OR INDICATED ON THE DRAWINGS.

J. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS FOR THE INSTALLATION, CONNECTION, EXTENSION OR MODIFICATION TO ALL UTILITY SERVICES WITH RESPECTIVE PROVIDERS INCLUDING PAYMENT OF ALL ASSOCIATED FEES.

K. THE CONTRACTOR IS RESPONSIBLE FOR ALL PAINTING ASSOCIATED WITH CUTTING AND PATCHING. ALL PAINTING IN AREAS WITH COMPLETE FINISH RENOVATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.

1.02 SUBMITTALS

A. SUBMITTAL REQUIREMENTS SHALL BE COORDINATED WITH THE ARCHITECT AND AUTHORITIES HAVING JURISDICTION. UNLESS OTHERWISE DIRECTED, CONTRACTOR SHALL PROVIDE SUBMITTALS AS LISTED BELOW.

1. PIPE AND FITTINGS
2. VALVES
3. HANGERS AND SUPPORTS
4. PLUMBING PIPING LAYOUT
5. TESTS
6. PLUMBING FIXTURES
7. WATER HEATERS & ACCESSORIES
8. FLOOR DRAINS
9. MIXING VALVES
10. ALL SCHEDULED PLUMBING EQUIPMENT

B. SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT BEAR THE STAMP OF THE SUBMITTING CONTRACTOR INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS WILL BE RETURNED REJECTED.

C. THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING WITH THE CONSTRUCTION DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY THE SHOP DRAWINGS STAMP.

D. SUBMIT PROOF OF APPROVAL AND/OR CONFIRMATION OF SATISFACTORY TEST RESULTS TO THE OWNER AND THE ARCHITECT.

E. SUBMIT TO THE OWNER'S MAINTENANCE PERSONNEL OPERATION AND MAINTENANCE DATA FOR ALL SYSTEM COMPONENTS, SERVICING REQUIREMENTS, INSPECTION DATA, REPLACEMENT PART NUMBERS AND AVAILABILITY AND CONTACT INFORMATION FOR SERVICE/SUPPLY COMPANY.

F. FOR ALL BELOW GRADE PIPING WHERE ACTUAL INSTALLATION DEVIATES FROM CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS INDICATING BELOW GRADE PIPE LOCATIONS DIMENSIONED TO NEAREST COLUMN LINES.

G. RECORD AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE OWNER/TENANT AFTER COMPLETION OF THE WORK SHOWING ANY ALTERATIONS, ADDITIONS AND/OR DELETIONS TO THE SYSTEM(S) INSTALLED.

- A. THE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO ILLUSTRATE THE GENERAL ARRANGEMENT AND ROUTING OF PIPING AND GENERAL LOCATIONS OF EQUIPMENT. PRECISE LOCATIONS OF EQUIPMENT, RISERS AND STACKS, AND THE ROUTING AND ELEVATION OF ALL PIPING SYSTEMS SHALL BE COORDINATED WITH THE FIELD WITH THE ARCHITECT. ARCHITECTURAL DRAWINGS, THE WORK OF OTHER TRADES, EXISTING AND NEW BUILDING CONDITIONS AND/OR THE PREFERENCES OF THE OWNER/TENANT AS CONSTRUCTION PROCEEDS. ALL PIPING SHALL BE INSTALLED CONCEALED IN FINISHED SPACES, UNLESS NOTED OTHERWISE.
- B. PROVIDE ALL NECESSARY INCIDENTAL MATERIALS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE IN ALL RESPECTS, EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED.
- C. REFER TO PLUMBING EQUIPMENT/FIXTURE SCHEDULE ON THE DRAWINGS FOR ALL FIXTURE AND EQUIPMENT SPECIFICATIONS.
- D. REFER TO FIXTURE CONNECTION SIZE SCHEDULE FOR ALL FIXTURE ROUGHING SIZE REQUIREMENTS.
- E. VERIFY ALL INDICATED CONDITIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES. THE DRAWINGS REFLECT CONDITIONS WHICH CAN BE REASONABLY INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS OR FROM DRAWINGS AND INFORMATION FURNISHED BY THE OWNER.
- F. LOCATE ALL FIXTURES AND EQUIPMENT AS PER THE FINAL ARCHITECTURAL DRAWINGS.

1. SANITARY AND VENT PIPING SHALL BE PVC AS PER ASTM D 2665-2012, ASTM D 2949-2010, CSA B137.2-2009 IN B137, CSA B181.2-2011 IN B1800.
2. SLOPE OF DRAINAGE SYSTEM SHALL BE 1/8" PER FOOT OF RUN FOR PIPE OVER 3" (I.D.) AND 1/4" PER FOOT OF RUN FOR PIPE 3" AND SMALLER (I.D.). VENT PIPING SHALL BE PITCHED TO DRAIN.

DOMESTIC WATER PIPING:

1. ABOVE GRADE WATER PIPING SHALL BE TYPE 'L' HARD-DRAWN COPPER TUBE
2. FITTINGS IN DOMESTIC WATER PIPING SHALL BE COPPER OR COPPER ALLOY AS PER 2014 ILLINOIS PLUMBING CODE.
3. JOINTS SHALL BE MADE WITH LEAD-FREE SOLDER.
4. THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL BE INSULATED INCLUDING ALL VALVES, FITTINGS, ETC.
5. COMPLY WITH NSF 61 FOR MATERIALS FOR WATER-SERVICE PIPING AND SPECIALTIES FOR DOMESTIC WATER.
6. ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE FIRE-RETARDANT, FACTORY-APPLIED JACKET, PROVIDE COLD WATER PIPING WITH FACTORY-APPLIED VAPOR BARRIER. INSULATION REQUIREMENT SHOULD COMPLY SECTION C404.4 REFER WITH 2024 INTERNATIONAL ENERGY CONSERVATION CODE TABLE C403.12.3.

MINIMUM PIPE INSULATION THICKNESS							
FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU IN./ (H FT ² °F)	MEAN RATING TEMPERATURE, °F	<1	1 to <1½	1½ to <4	4 to <8	>8
105–140	0.21–0.28	100	1.0	1.0	1.5	1.5	1.5
40–60	0.21–0.27	75	0.5	0.5	1.0	1.0	1.0

7. AS PER 2024 INTERNATIONAL ENERGY CONSERVATION CODE C404.6.1 HEATED-WATER CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP. THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE PUMP SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER. THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).

8. HEATED WATER SUPPLY PIPING SHALL BE IN ACCORDANCE WITH 2024 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C404.5.1 OR C404.5.2. THE FLOW RATE THROUGH 1/4-INCH PIPING SHALL BE NOT GREATER THAN 0.5 GPM. THE FLOW RATE THROUGH 5/16-INCH PIPING SHALL BE NOT GREATER THAN 1 GPM. THE FLOW RATE THROUGH 3/8-INCH PIPING SHALL BE NOT GREATER THAN 1.5 GPM. HW SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER IECC 2024 C404.5.1. THE HW PIPE LENGTH FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER FOLLOWING TABLE.

NOMINAL PIPE SIZE (INCHES)	MAXIMUM PIPING LENGTH (FEET)	
	PUBLIC LAV	OTHER FIXTURES
3/8"	3'	50'
1/2"	2'	43'
3/4"	0.5'	21'
1"	0.5'	13'
1 1/4"	0.5'	8'
1 1/2"	0.5'	6'
2" OR LARGER	0.5'	4'

- A. ALL EQUIPMENT SHALL BE PRODUCTS OF THE SPECIFIED MANUFACTURER OR MANUFACTURERS. ALL BIDS SHALL BE BASED ON THE SPECIFIED MANUFACTURER OR MANUFACTURER'S EQUIPMENT. FOR SUBSTITUTIONS OF OTHER MANUFACTURER'S EQUIPMENT TO BE CONSIDERED, THE SUBSTITUTION MUST BE INDICATED PRIOR TO BIDDING WITH THE REASON FOR THE PROPOSED SUBSTITUTION IDENTIFIED, AND THE PROPOSED CREDIT TO THE OWNER INDICATED. THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF ANY PROPOSED SUBSTITUTIONS.
- B. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR COORDINATING THE WORK OF OTHER TRADES WHICH MAY BE AFFECTED BY SUBSTITUTIONS, INCLUDING ALL RELATED COSTS.

1.04 DEFINITIONS

- A. FURNISH: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER, COMPLETE WITH RELATED ACCESSORIES.
- B. INSTALL: TO ERECT, MOUNT AND CONNECT, COMPLETE WITH RELATED ACCESSORIES.
- C. PROVIDE: TO FURNISH AND INSTALL.
- D. PLUMBING CONTRACTOR, THE CONTRACTOR, THIS CONTRACTOR: THE CONTRACTOR FOR PLUMBING WORK WHICH IS SPECIFIED HEREIN AND SHOWN ON THESE DRAWINGS.
- E. REFER TO THE 2014 ILLINOIS PLUMBING CODE FOR ADDITIONAL DEFINITIONS.

1. THE TANKLESS WATER HEATER SHALL BE UL LISTED FOR THE US AND NSF CERTIFIED.
2. UNIT SHALL BE PROTECTED BY A SHEET METAL HOUSING. HEAT EXCHANGER SHALL BE RATED FOR MAXIMUM WORKING PRESSURE NOT LESS THAN 2 PSI.
3. ALL ASPECTS OF INSTALLATION OF WATER HEATER PLANT SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. MATERIALS SHALL CONFORM TO ALL MANUFACTURER RECOMMENDATION INCLUDING GAS CONNECTION, ELECTRICAL CONNECTIONS AND WIRING.
4. WATER HEATER PIPING SHALL BE FIELD CONSTRUCTED OF MATERIALS AS SPECIFIED. WATER HEATER SHALL BE INSTALLED WITH INDIVIDUAL ISOLATING SHUTOFF VALVES FOR SERVICE AND MAINTENANCE.

GAS PIPING

1. ALL GAS PIPING WORK SHALL COMPLY WITH INTERNATIONAL FUEL GAS CODE 2021, LOCAL UTILITY GAS REQUIREMENTS.
2. FURNISH AND INSTALL ALL NECESSARY GAS PIPING TO ALL EQUIPMENT REQUIRING GAS SUPPLY.
3. PROVIDE A LUBRICATED GAS VALVE AT ALL CONNECTIONS TO EQUIPMENT.
4. ALL GAS PIPING AND INSTALLATION SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF LOCAL UTILITY GAS COMPANY AND OTHER AUTHORITIES HAVING JURISDICTION.
5. PROVIDE ADEQUATE SUPPORT FOR ALL PIPING.
6. GAS PIPING SHALL BE BLACK STEEL SCHEDULE 40 THREADED PIPE CONFORMING TO ANSI B36-20.
7. FITTINGS SHALL BE MALLEABLE IRON.

HOT WATER RE-CIRCULATING PUMP

1. IN-LINE PUMP; SINGLE STAGE VOLUTE TYPE PUMP SHALL BE MADE OF CAST IRON OR FORGED FLAKE-FREE BRONZE IMPELLER.
2. THE PUMP SHALL HAVE A GROUND AND POLISHED STEEL SHAFT WITH A HARDENED INTEGRAL THRUST COLLAR. THE SHAFT SHALL BE SUPPORTED BY TWO HORIZONTAL SLEEVE BEARINGS DESIGNED TO CIRCULATE OIL. THE PUMPS ARE TO BE EQUIPPED WITH A MECHANICAL SEAL WITH CARBON SEAL FACE ROTATING AGAINST CERAMIC SEAT. THE MOTOR SHALL BE NON-OVERLOADING AT ANY POINT ON PUMP CURVE.
3. DIRECT CONNECT PUMP TO ELECTRIC MOTOR WITH FLEXIBLE COUPLING. THE MOTOR SHALL BE OF THE DRIP-PROOF, SLEEVE-BEARING, QUIET OPERATING, RUBBER-MOUNTED CONSTRUCTION. EQUIPMENT MOTOR WITH BUILT-IN THERMAL OVERLOAD PROTECTION.
4. INSTALL IN-LINE CIRCULATING PUMPS BETWEEN PIPE FLANGES IN PIPING SYSTEMS. INSTALL OVERHEAD PIPE SUPPORTS, BOTH SIDES OF IN-LINE PUMPS, INSTALLED IN HORIZONTAL PIPING RUNS.

MIXING VALVES

1. VALVE BODY SHALL BE MADE OF CAST BRASS. THE INTERNAL COMPONENTS SHALL BE MADE OF BRASS OR STAINLESS STEEL.
2. TYPES A, C & D VALVES: VALVE SHUTS OFF IN FULL COLD POSITION AND MUST PASS THROUGH TEMPERATURE RANGE BEFORE DELIVERING WARM, AND/OR HOT WATER. TEMPERATURE LIMIT SET AT 105° MAXIMUM DELIVERY TEMPERATURE. IF ONE SUPPLY SHOULD FAIL, THE OTHER WILL AUTOMATICALLY AND INSTANTLY SHUT DOWN. DELIVERY CAPACITY IS 15GPM @ 45 PSIG DIFFERENTIAL.
3. TYPES OF VALVES: TYPE A- THERMOSTATICALLY OPERATED BY MEANS OF BI-METALLIC STRIP, OR EXPANSION BELLOWS; TYPE B- SINGLE HANDLE MECHANICAL MIXER, OR INDIVIDUAL HOT AND COLD CONTROL VALVES; TYPE C- PRESSURE BALANCING SHOWER VALVE/PISTON OPERATED MIXING VALVE; TYPE D- BALANCED PRESSURE OPERATION, WITH INTEGRAL DIAL THERMOMETER INDICATING DELIVERED WATER TEMPERATURE.

1. VALVE BODY SHALL BE MADE OF CAST BRASS. THE INTERNAL COMPONENTS SHALL BE MADE OF BRASS OR STAINLESS STEEL.
2. TYPES A, C & D VALVES: VALVE SHUTS OFF IN FULL COLD POSITION AND MUST PASS THROUGH COLD RANGE BEFORE DELIVERING WARM AND/OR HOT WATER. TEMPERATURE LIMIT SET AT 105° MAXIMUM DELIVERY TEMPERATURE. IF ONE SUPPLY SHOULD FAIL, THE OTHER WILL AUTOMATICALLY AND INSTANTLY SHUT DOWN. DELIVERY CAPACITY IS 150GPM @ 45 PSIG DIFFERENTIAL.
3. TYPES OF VALVES: TYPE A— THERMOSTATICALLY OPERATED BY MEANS OF BI-METALLIC STRIP, OR EXPANSION BELLOWS; TYPE B— SINGLE HANDLE MECHANICAL MIXER, OR INDIVIDUAL HOT AND COLD CONTROL VALVES; TYPE C— PRESSURE BALANCING SHOWER VALVE/PISTON OPERATED MIXING VALVE; TYPE D— BALANCED PRESSURE OPERATION, WITH INTEGRAL, DIAL THERMOMETER INDICATING DELIVERED WATER TEMPERATURE.
4. EACH ELEMENT SHALL BE CONTROLLED BY AN INDIVIDUALLY MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT-OFF SWITCH. ALL INTERNAL CIRCUITS SHALL BE FUSED. THE OUTER JACKET SHALL BE MADE OF BAKELITE. THE VALVE SHALL BE PROVIDED WITH FULL SIZE CONTROL COMPARTMENT FOR PERFORMANCE OF SERVICE AND MAINTENANCE THROUGH HINGED FRONT PANEL AND SHALL ENCLOSE THE TANK WITH FOAM INSULATION. ELECTRICAL CONTROL BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. THE DRAIN VALVE SHALL BE LOCATED IN THE FRONT FOR EASE OF SERVICING.

P0.1	PLUMBING SPECIFICATIONS & SYMBOLS
P0.2	PLUMBING SPECIFICATIONS
P1.0	PLUMBING SANITARY & VENT PLAN
P2.0	PLUMBING WATER SUPPLY PLAN
P3.0	PLUMBING GAS PLAN
P4.0	PLUMBING STORM PLAN
P5.0	PLUMBING DETAILS
P5.1	PLUMBING SCHEDULES
P6.0	PLUMBING RISER DIAGRAMS

ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THESE PROJECT:

1. 2021 INTERNATIONAL BUILDING CODE
2. 2021 INTERNATIONAL MECHANICAL CODE
3. 2014 ILLINOIS PLUMBING CODE
4. 2021 INTERNATIONAL FUEL GAS CODE
5. 2024 INTERNATIONAL ENERGY CONSERVATION CODE
6. 2023 NATIONAL ELECTRICAL CODE
7. 2021 INTERNATIONAL FIRE CODE

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.

COPYRIGHT 2025 ILEXIS ASSOCIATES, ALL RIGHTS RESERVED

[illegible]

P0.1

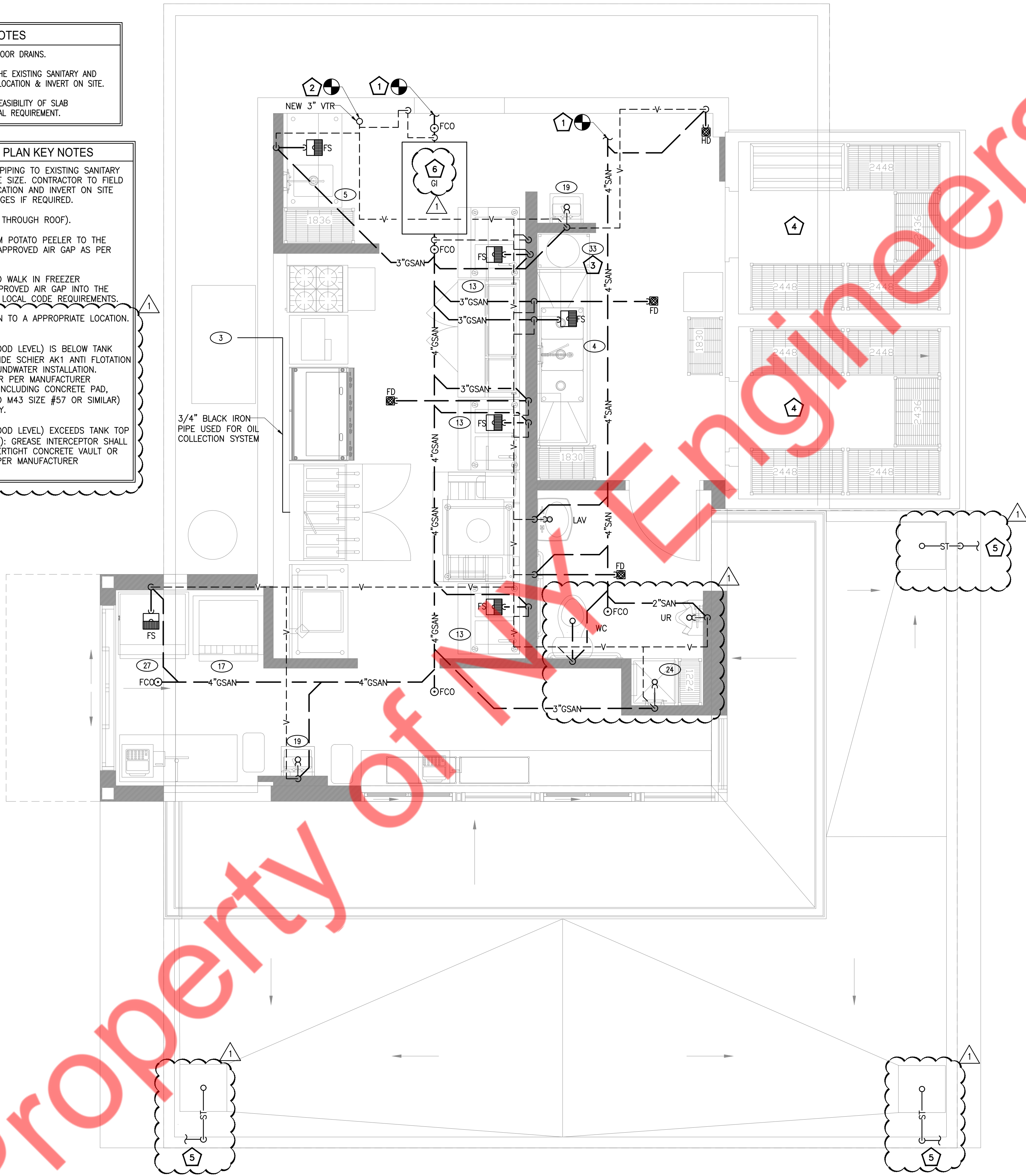
THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.

COPYRIGHT 2025 ILEXIS ASSOCIATES. ALL RIGHTS RESERVED

PLUMBING SPECIFICATIONS

- GENERAL NOTES
1. PROVIDE TRAP SEAL FOR ALL FLOOR DRAINS.
 2. CONTRACTOR TO FIELD VERIFY THE EXISTING SANITARY AND GREASE SANITARY PIPING SIZE, LOCATION & INVERT ON SITE.
 3. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.

- SANITARY AND VENT PLAN KEY NOTES
1. CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY PIPE IN SPACE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY THE EXACT SIZE, LOCATION AND INVERT ON SITE AND MAKE NECESSARY CHANGES IF REQUIRED.
 2. PROVIDE NEW 3" VTR (VENT THROUGH ROOF).
 3. ROUTE INDIRECT WASTE FROM POTATO PEELER TO THE NEAREST FLOOR SINK WITH APPROVED AIR GAP AS PER LOCAL CODE REQUIREMENTS.
 4. ROUTE WALK IN COOLER AND WALK IN FREEZER CONDENSATE DRAIN WITH APPROVED AIR GAP INTO THE NEARBY HUB DRAIN AS PER LOCAL CODE REQUIREMENTS.
 5. ROOF DRAIN SHALL BE DRAIN TO A APPROPRIATE LOCATION, COORDINATED ON SITE.
 6. IF GROUNDWATER LEVEL (FLOOD LEVEL) IS BELOW TANK TOP (AK1 CONDITION): PROVIDE SCHIER AK1 ANTI FLOTATION ANCHOR KIT FOR HIGH GROUNDWATER INSTALLATION. INSTALL GREASE INTERCEPTOR PER MANUFACTURER INSTALLATION INSTRUCTIONS INCLUDING CONCRETE PAD, APPROVED BACKFILL (AASHTO M43 SIZE #57 OR SIMILAR) AND HAND COMPACTION ONLY.
- IF GROUNDWATER LEVEL (FLOOD LEVEL) EXCEEDS TANK TOP (CONCRETE VAULT CONDITION): GREASE INTERCEPTOR SHALL BE INSTALLED INSIDE A WATERTIGHT CONCRETE VAULT OR FULLY CONCRETE ENCASED PER MANUFACTURER REQUIREMENTS.



- GENERAL NOTES
1.

CW/HW/HWR PIPING TO BE PROVIDED WITH INSULATION AS PER 2021 INTERNATIONAL ENERGY CONSERVATION CODE (REFER SHEET PD.1).
2.

PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
3.

CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
4.

PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR, SHUT-OFF VALVES AS REQUIRED.
5.

REFER RISER DIAGRAM FOR WATER PIPE SIZING.

- WATER PLAN KEY NOTES
- 1

CONNECT NEW 1" COLD WATER LINE TO EXISTING 1" WATER METER. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING WATER METER AND MAKE NECESSARY CHANGES IF REQUIRED.
- 2

ALL CARBONATED BEVERAGE DISPENSER SHALL BE PROTECTED WITH AN ASSE 1022 OR ASSE 1032 (WITH PORT) BACKFLOW PREVENTION DEVICE INSTALLED IN-LINE. THE DOUBLE CHECK DEVICE SHALL BE CONSTRUCTED OF INTEGRAL STAINLESS STEEL MATERIALS.
- 3

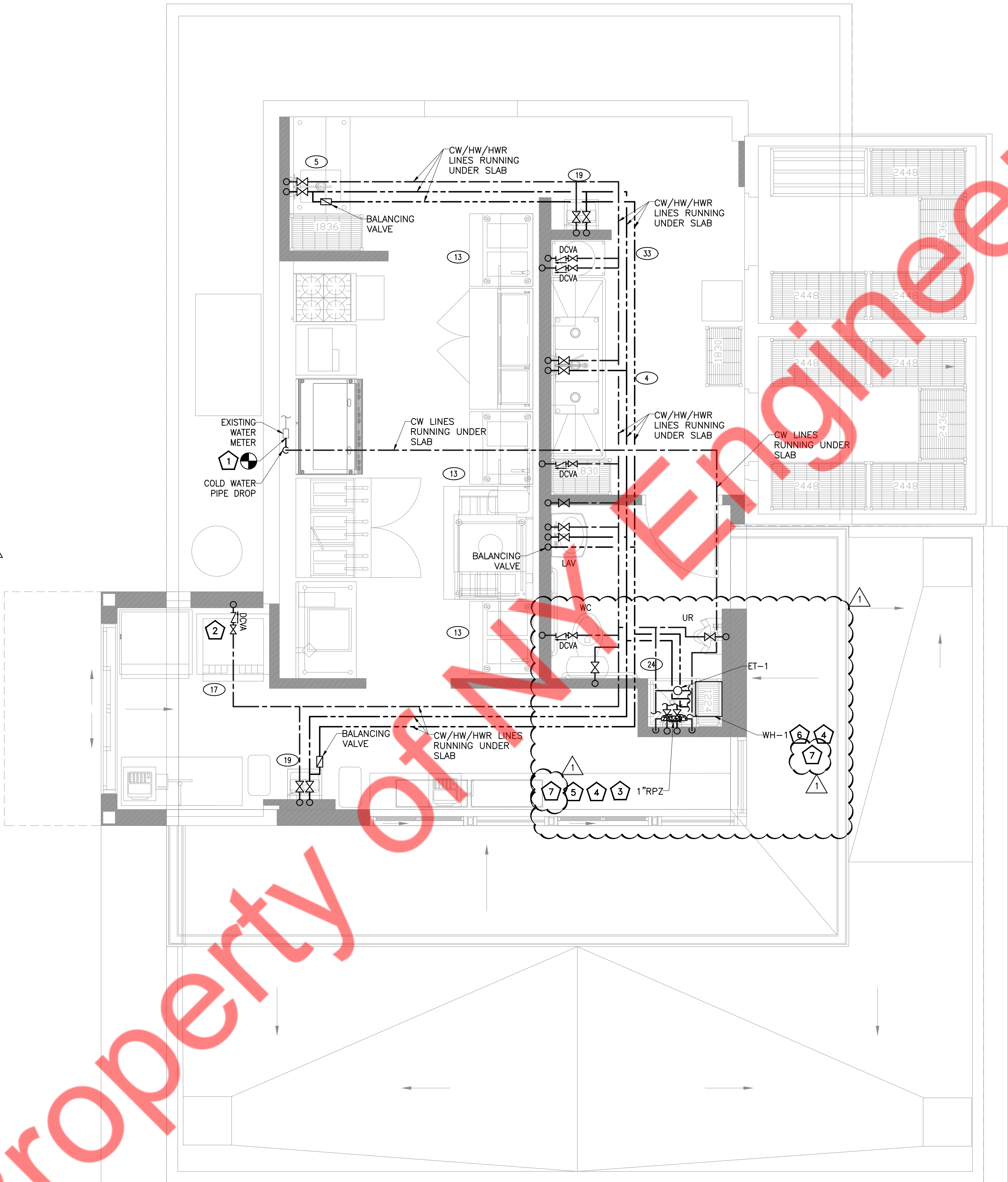
CONTRACTOR SHALL PROVIDE AN APPROVED REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) INSTALLED IN-LINE WITH THE INCOMING WATER SERVICE. RPZ SHALL BE MOUNTED NO MORE THAN 5 FEET ABOVE THE FINISHED FLOOR.
- 4

WATER HEATER (WH-1) & REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) TO DRAIN INTO THE MOP SINK WITH APPROVED AIR GAP.
- 5

RELOCATE THE EXISTING BACKFLOW PREVENTER TO THE LOCATION INDICATED ON THE PLANS. CONTRACTOR SHALL FIELD VERIFY ITS CONDITION AND MAKE NECESSARY CHANGES IF REQUIRED.
- 6

CONTRACTOR SHALL FIELD VERIFY THE CLEARANCE REQUIRED FOR THE WATER HEATER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 7

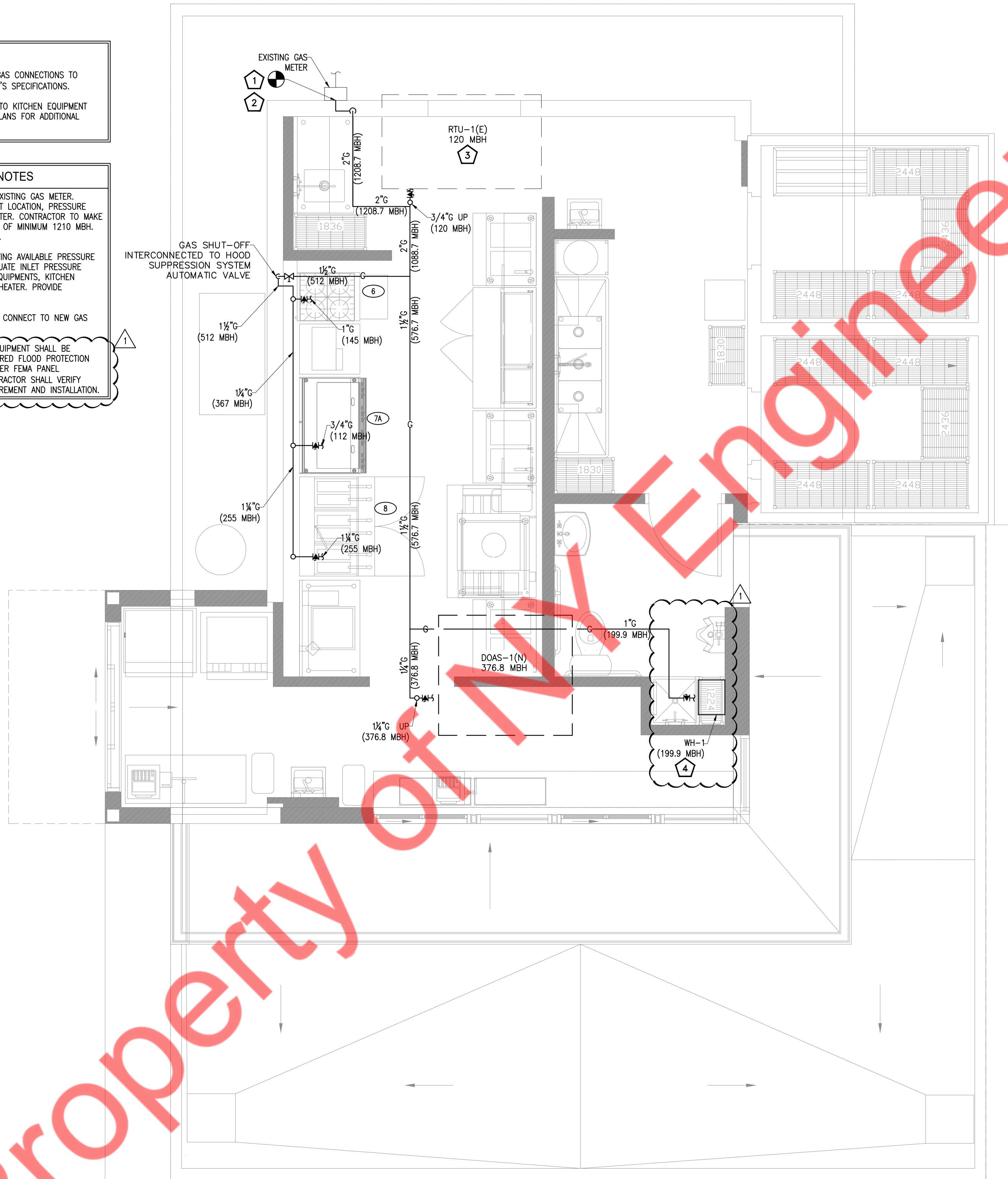
ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED AT OR ABOVE THE REQUIRED FLOOD PROTECTION ELEVATION OF 837.30 FT NAVD88 PER FEMA PANEL 17037C0256E (01/02/2009). CONTRACTOR SHALL VERIFY FIELD ELEVATIONS PRIOR TO PROCUREMENT AND INSTALLATION.



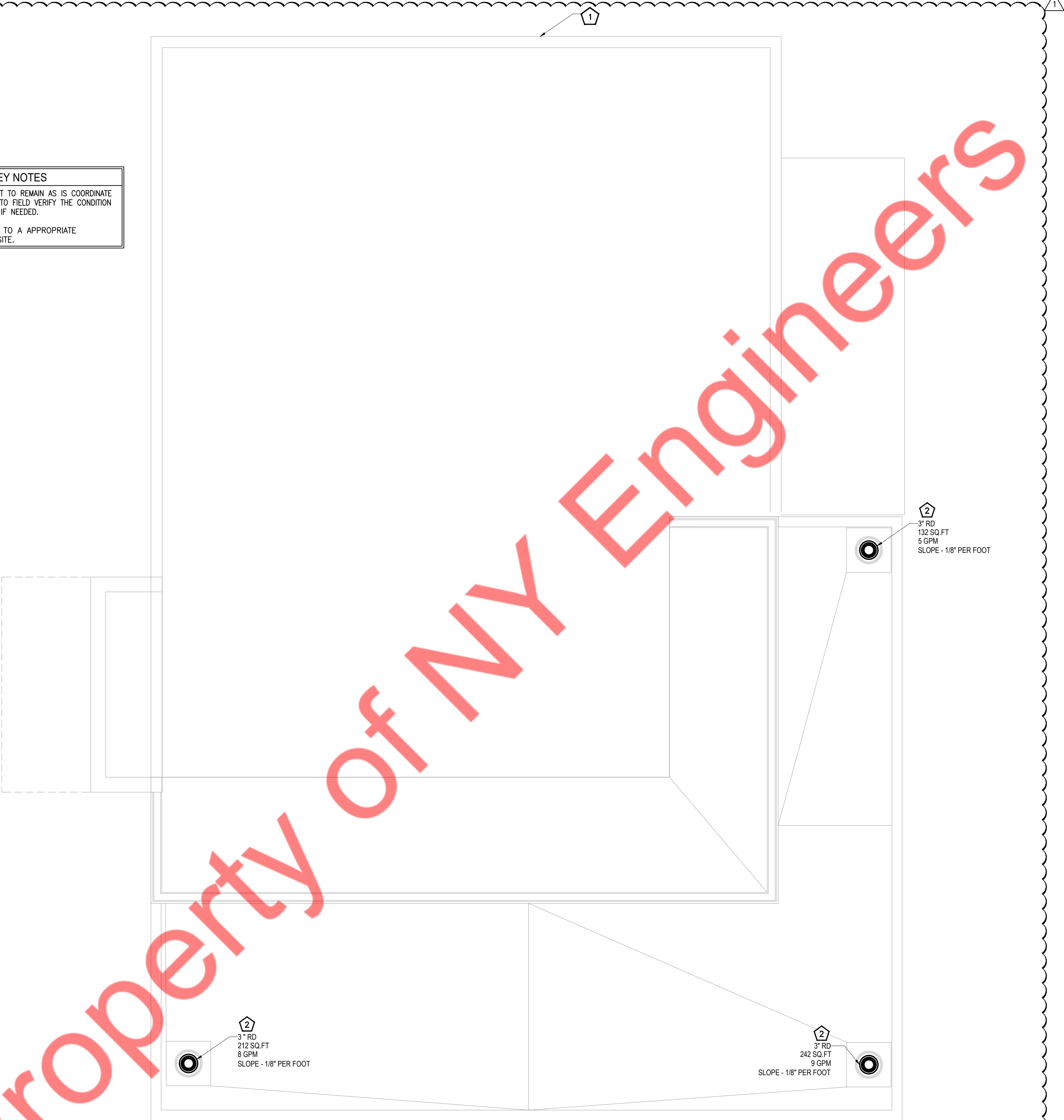
DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

- PLUMBING GAS GENERAL NOTES:
1. CONTRACTOR TO MAKE ALL FINAL GAS CONNECTIONS TO EQUIPMENT AS PER MANUFACTURER'S SPECIFICATIONS.
 2. ALL CONNECTIONS SHOWN RELATE TO KITCHEN EQUIPMENT ONLY. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL REQUIREMENTS.

- GAS PLAN KEY NOTES
1. CONNECT NEW 2" GAS PIPING TO EXISTING GAS METER. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, PRESSURE AND CAPACITY OF EXISTING GAS METER. CONTRACTOR TO MAKE SURE THAT GAS METER SHOULD BE OF MINIMUM 1210 MBH. IF NOT THEN REPLACE IF REQUIRED.
 2. CONTRACTOR TO FIELD VERIFY EXISTING AVAILABLE PRESSURE AND MAKE SURE TO PROVIDE ADEQUATE INLET PRESSURE REQUIRED FOR ALL MECHANICAL EQUIPMENTS, KITCHEN EQUIPMENT AND GAS FIRED WATER HEATER. PROVIDE PRESSURE REGULATOR IF REQUIRED.
 3. EXISTING RTU-1(E) TO REMAIN AND CONNECT TO NEW GAS PIPING AS SHOWN IN PLAN.
 4. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED AT OR ABOVE THE REQUIRED FLOOD PROTECTION ELEVATION OF 837.30 FT NAVD88 PER FEMA PANEL 17037C0256E (01/02/2009). CONTRACTOR SHALL VERIFY FIELD ELEVATIONS PRIOR TO PROCUREMENT AND INSTALLATION.



STORM PLAN KEY NOTES	
1	EXISTING GUTTER AND DOWNSPOUT TO REMAIN AS IS. COORDINATE LOCATION ON SITE. CONTRACTOR TO FIELD VERIFY THE CONDITION AND MAKE NECESSARY CHANGES IF NEEDED.
2	ROOF DRAIN SHALL BE DRAIN TO A APPROPRIATE LOCATION. COORDINATED ON SITE.



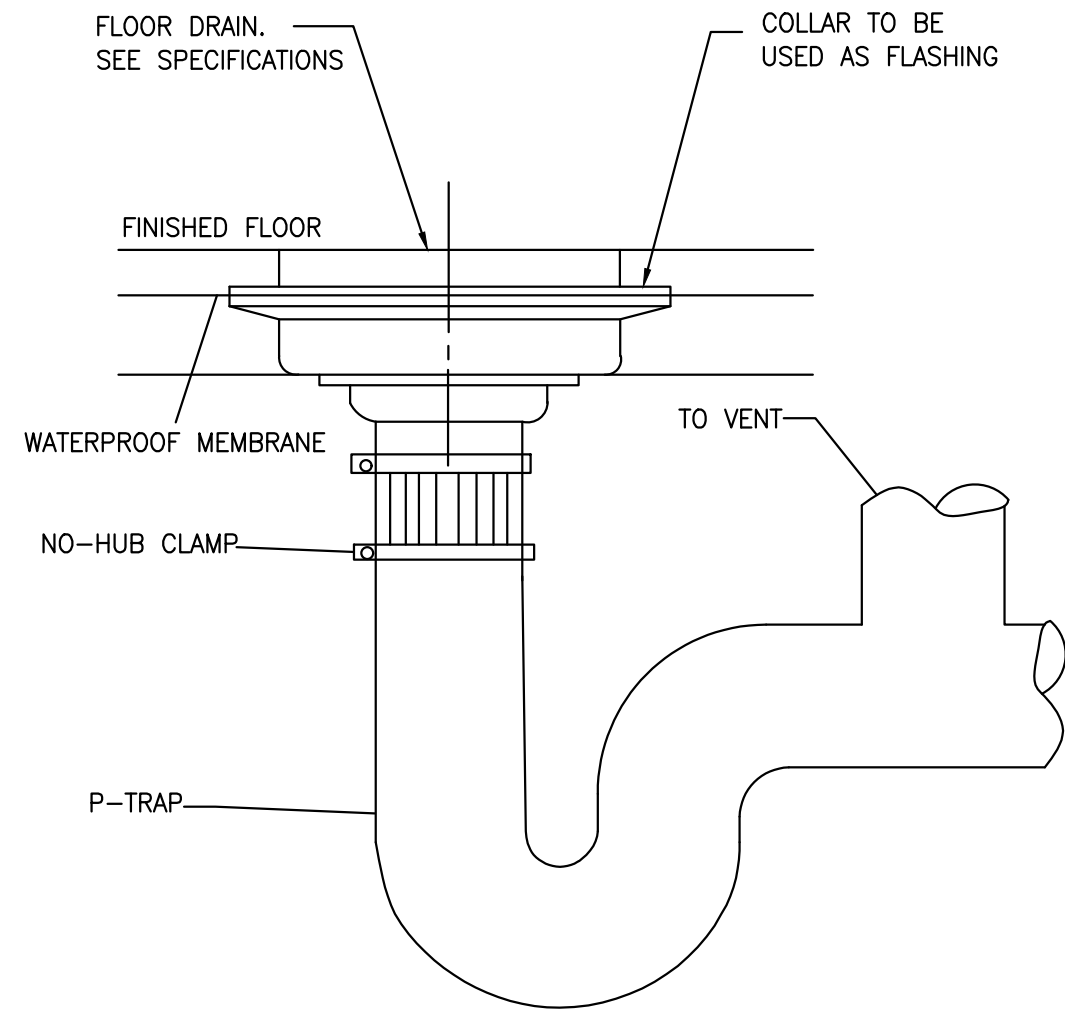
CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 ELSER ASSOCIATES. ALL RIGHTS RESERVED.

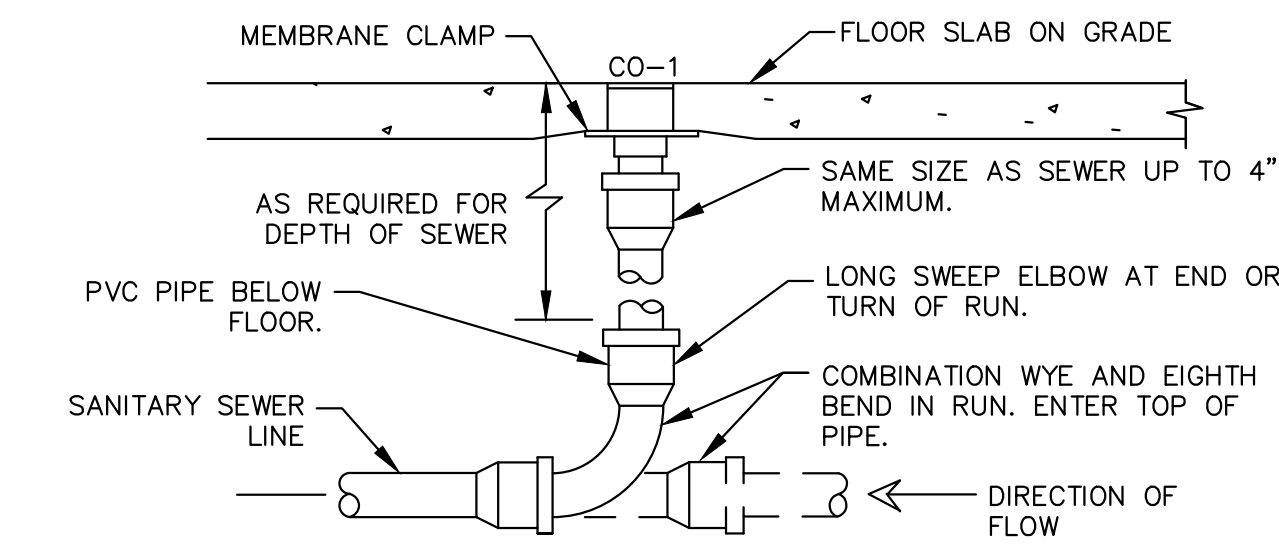
DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

PLUMBING
STORM PLAN

P4.0

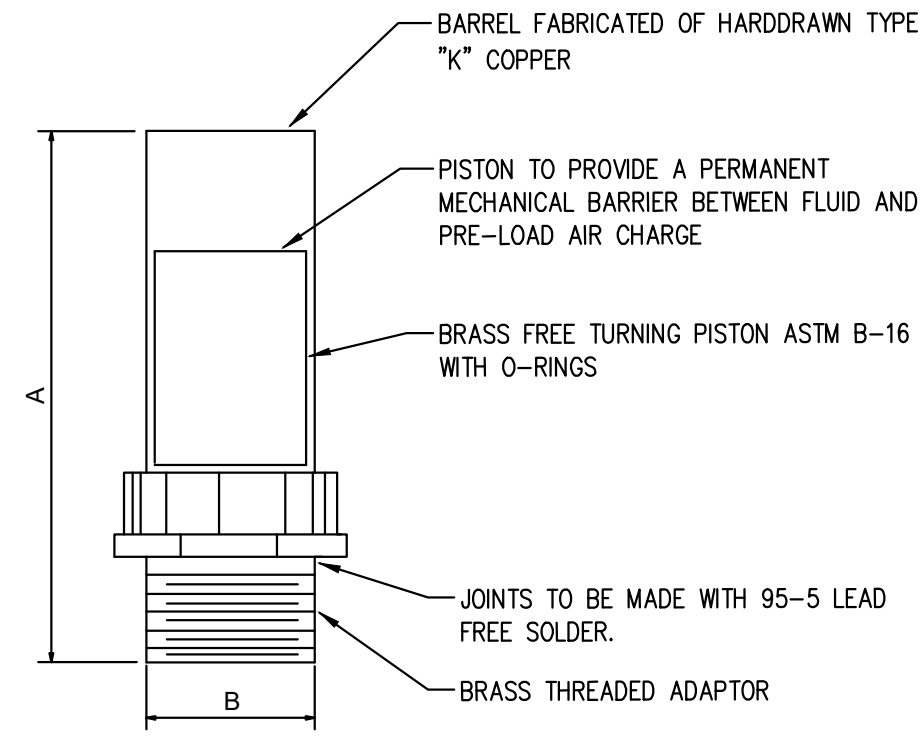


1 FLOOR DRAIN DETAILS
NTS



COMMENTS:
1. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.
2. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIFIED FOR UNFINISHED FLOORS). CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.

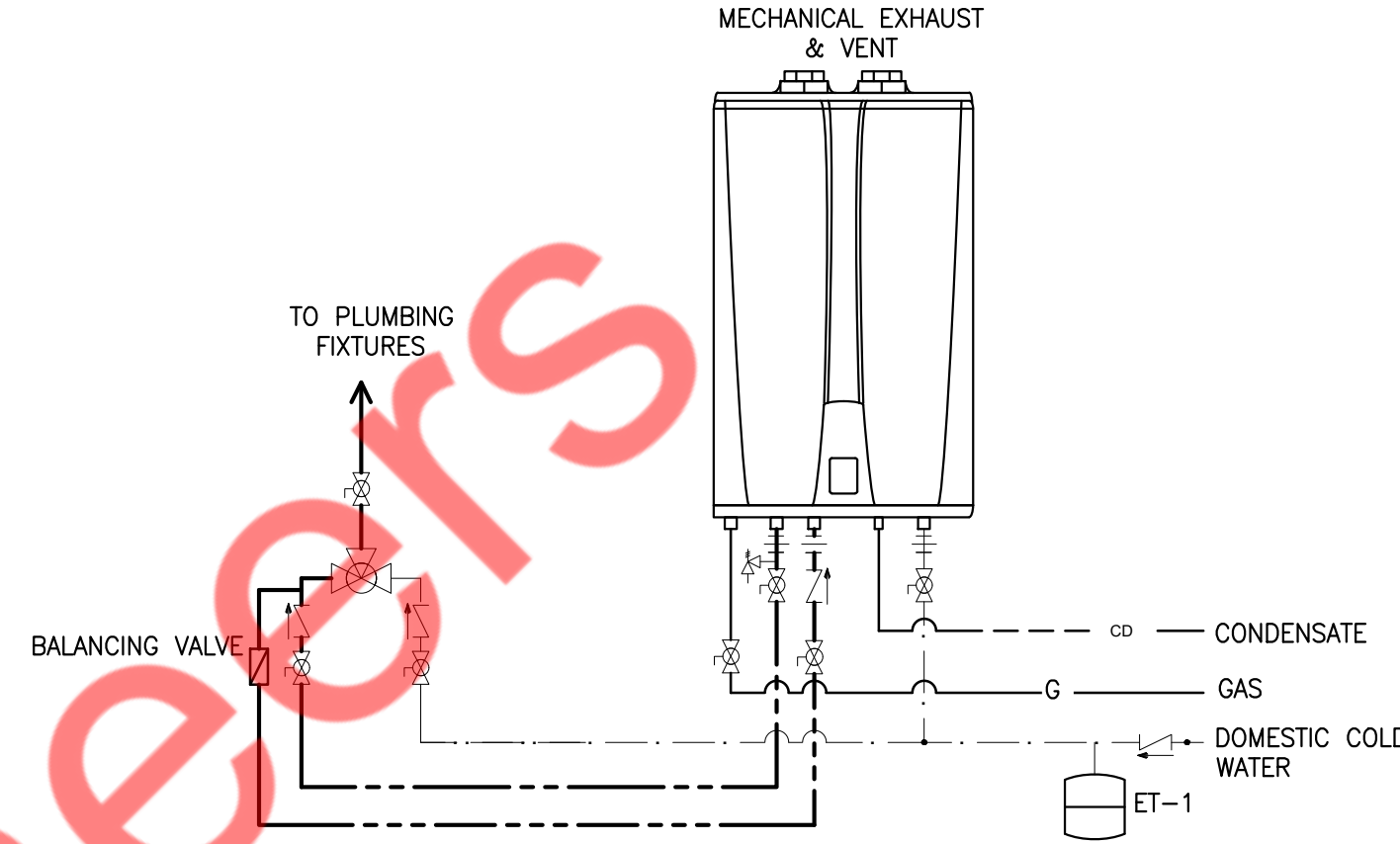
2 FLOOR CLEANOUT DETAIL
NTS



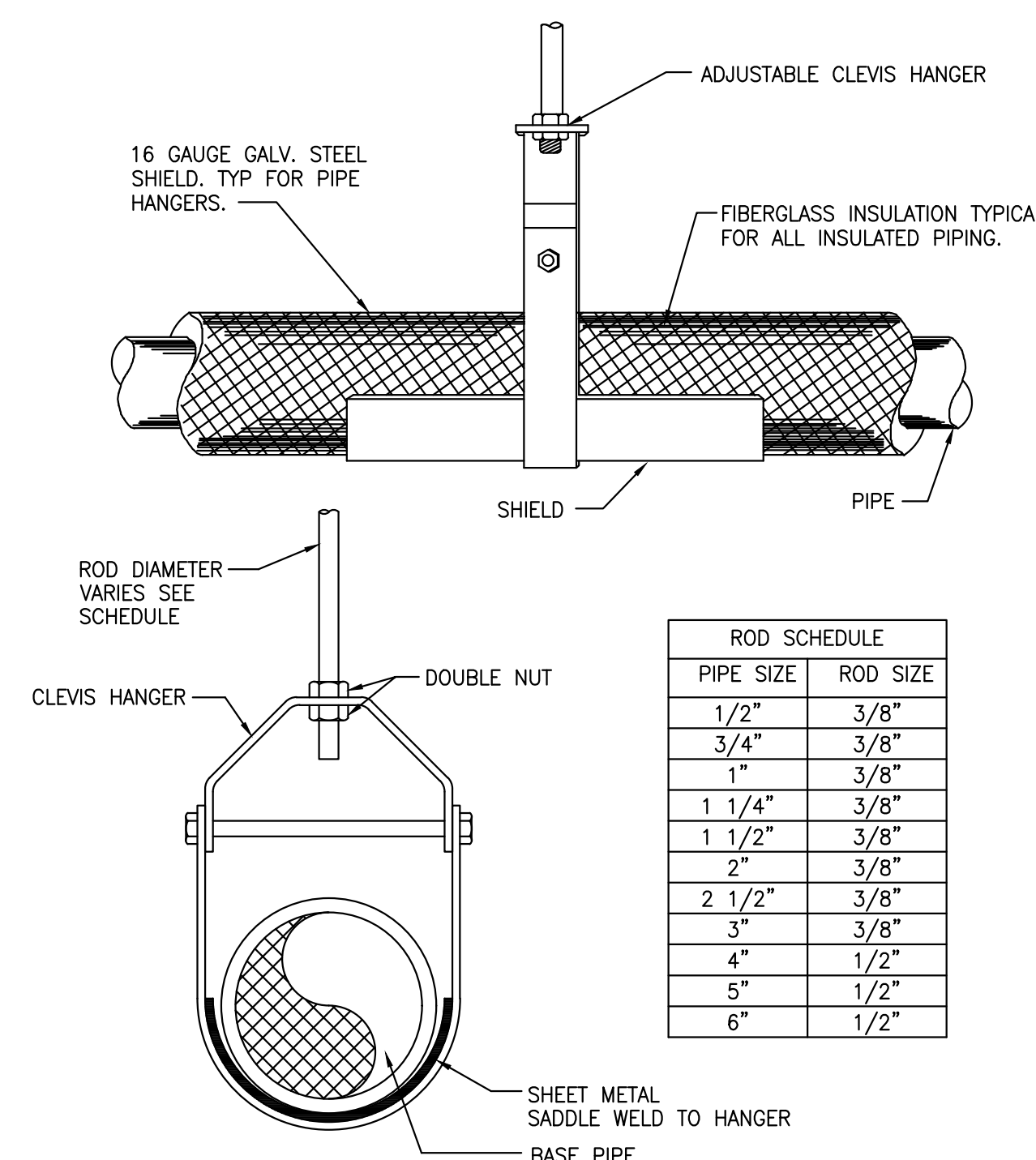
PIPE SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

NOTE: LOCATE ONE FOR EACH BANK OF FLUSHMETER FIXTURES AT LAST FIXTURE PROVIDE A STAINLESS STEEL ACCESS DOOR FOR EACH SUFFICIENT IN SIZE TO ALLOW REPLACEMENT OF ARRESTOR AT A FUTURE DATE.

3 WATER HAMMER ARRESTOR DETAILS
NTS

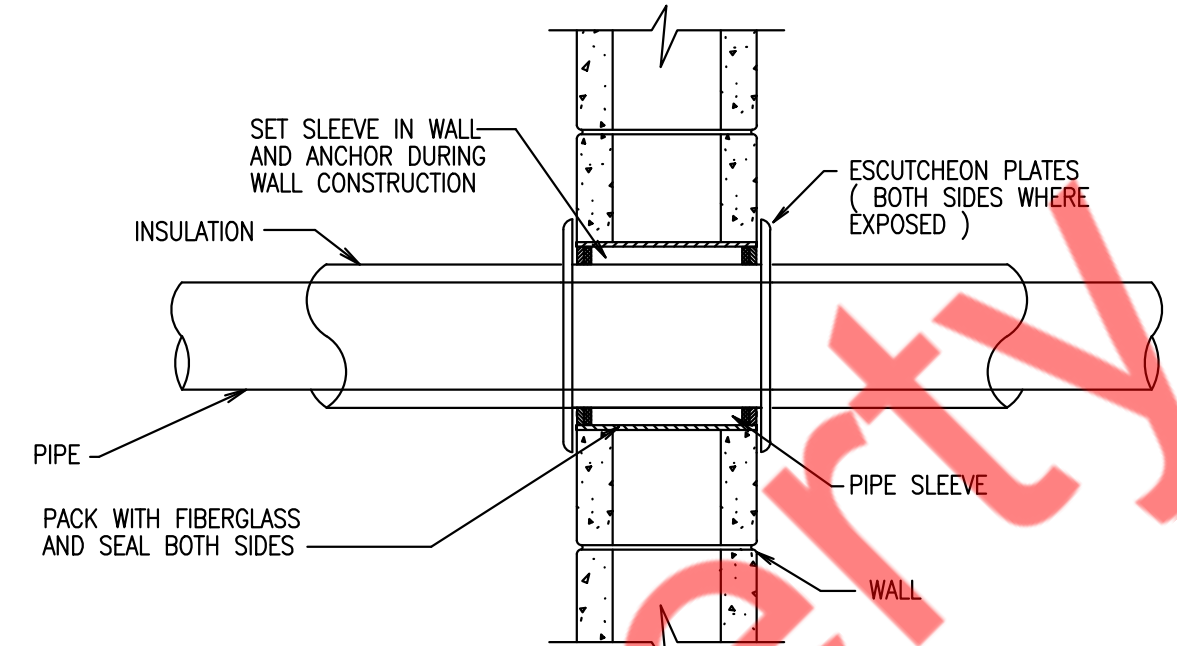


4 GAS FIRED TANKLESS HOT WATER HEATER DETAILS (WH-1)
NTS



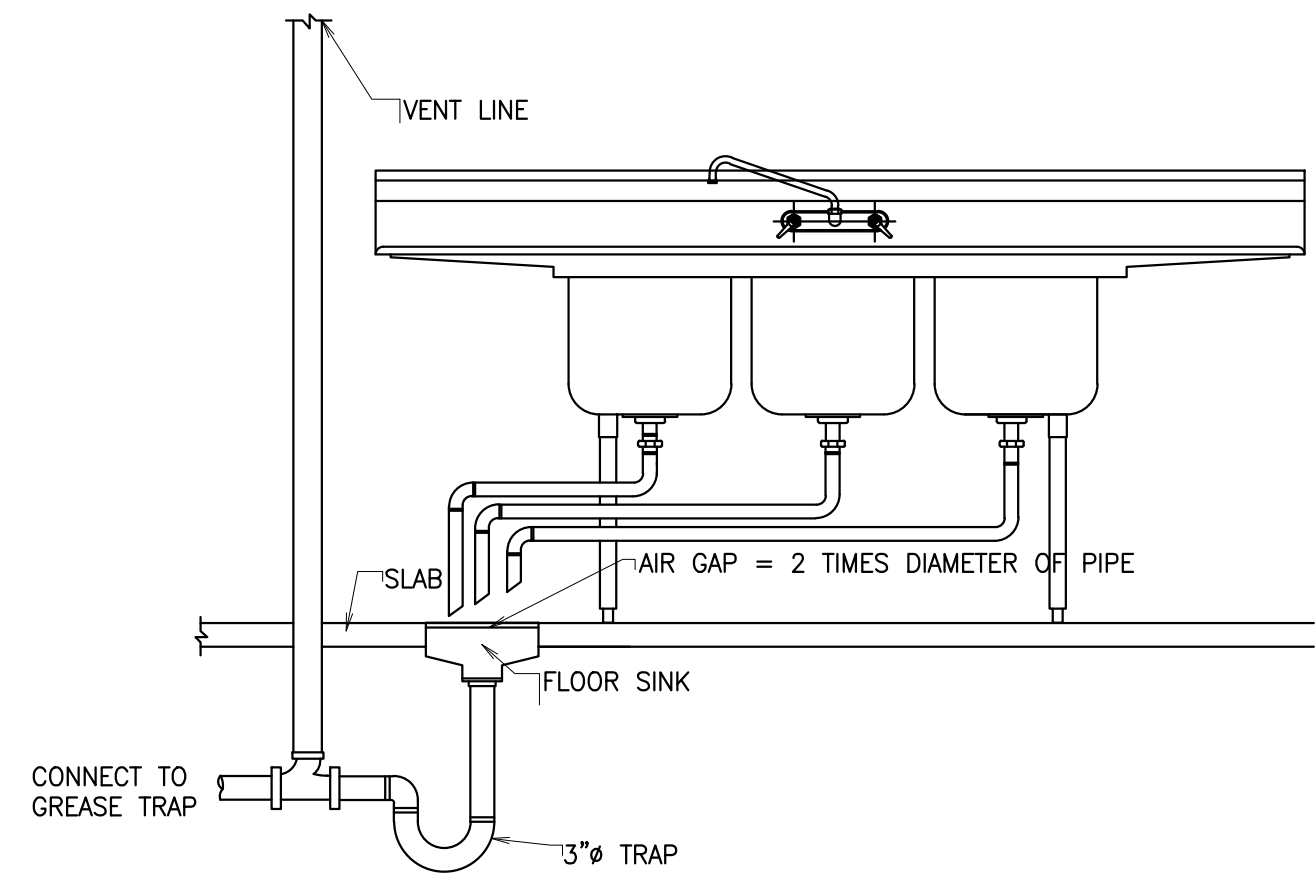
ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2"	3/8"
3/4"	3/8"
1"	3/8"
1 1/4"	3/8"
1 1/2"	3/8"
2"	3/8"
2 1/2"	3/8"
3"	3/8"
4"	1/2"
5"	1/2"
6"	1/2"

5 HANGER DETAILS
NTS

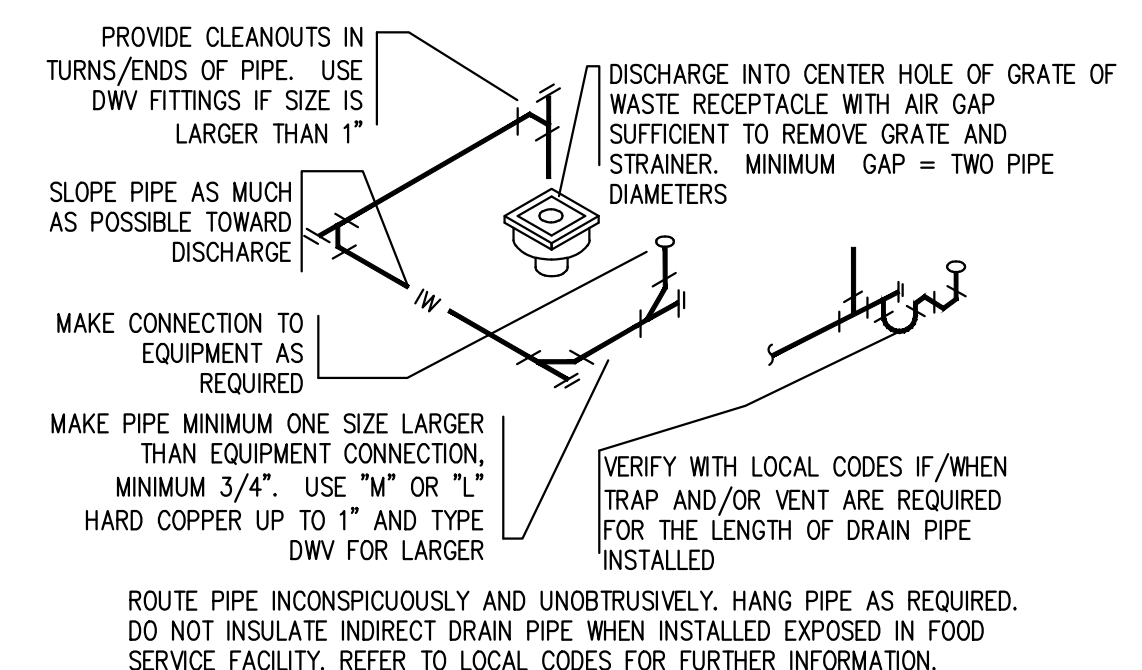


NOTE: CONTRACTOR TO PROVIDE UL FIRE-RATED PENETRATION AT RATED PARTITIONS OR WALLS.

6 PIPE SLEEVE THROUGH INTERIOR WALL DETAIL
NTS



7 3-COMPARTMENT SINK DETAILS
NTS



8 INDIRECT WASTE DETAIL
NTS

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2025 KLEIS ASSOCIATES, ALL RIGHTS RESERVED.

DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

1

PLUMBING
DETAILS

P5.0

PLUMBING FIXTURE SCHEDULE										
LEGEND	PLUMBING FIXTURE	MAKE	MODEL	CONNECTION SIZE - INCHES						REMARKS
				TRAP	SOIL/WASTE	VENT	COLD WATER	HOT WATER	THERMOSTATIC MIXING VALVE	
WC	WATER CLOSET	WELLWORTH	K-3458	-	4"	2"	3/4"	-	-	FLUSH TANK
LAV	LAVATORY	TBD	TBD	2"	2"	1-1/2"	1/2"	1/2"	PROVIDE	-
UR	URINAL	TBD	TBD	1-1/2"	2"	2"	3/4"	-	-	P-TRAP
FS	FLOOR SINK	-	-	3"	3"	2"	-	-	-	P-TRAP
FD	FLOOR DRAIN	ZURN	Z504-C-Y-DG 12"	3"	3"	2"	-	-	-	P-TRAP
HD	HUB DRAIN	ZURN	Z1870	3"	3"	2"	-	-	-	P-TRAP

NOTE: CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURES SPECIFICATIONS AND MOUNTING HEIGHT INSTALLATION.

GREASE INTERCEPTOR SIZING							
TAG	DESCRIPTION	QTY	DIMENSIONS			VOLUME	
			LENGTH	WIDTH	DEPTH	CU.IN	GALLONS
5	PREP SINK	01	20	16	10	3200	13.85
4	3-COMPARTMENT SINK	01	18	18	14	13608	58.91
24	MOP SINK	01	24	24	10	5760	24.94
19	HAND SINK	02	14	10	5	1400	6.06
FS	FLOOR SINK	04	--	--	--	--	0
FD	FLOOR DRAIN	02	--	--	--	--	0
STEP 1: LIQUID HOLDING CAPACITY TO GREASE INTERCEPTOR							
TOTAL FIXTURE CAPACITY = 103.76 GALLONS							
INDOOR (SAME FLOOR) FACTOR = 0.5							
103.76 X 0.5 = 51.88 GAL							
STEP 2: GREASE PRODUCTION							
SERVING PER DAY = 200							
GREASE PRODUCTION VALUE = BAR AND GRILLE (HIGH/NO FLATWARE: 0.035 LBS PER SERVING)							
DAYS BETWEEN PUMP-OUTS = 90 DAYS							
200 X 0.035 X 90 = 630 LBS OF FOG (SERVINGS PER DAY X GREASE PRODUCTION VALUE X DAYS BETWEEN PUMP-OUT = GREASE OUTPUT)							
NOTE- FLOOR DRAIN IS CONSIDERED AS EMERGENCY FLOOR DRAIN.							

NEW GAS TANKLESS WATER HEATER										
TAG No.	FIXTURES SERVING	QTY	RECOVERY CAP. (GPH @ RISE)	TYPE	ELECTRICAL					REMARKS
					GAS MBH	VOLTS	PHASE	HERTZ	AMP.	
WH-1	ALL PLUMBING FIXTURES	1	4.4 GPM @ 90°F	GAS TANKLESS WATER HEATER	199.9	120	1	60	MAX 4A	-DIMENSIONS 17.3"(W) X 27.4"H X 13.2"(D) -77 LBS -HEATERS SHALL HAVE 150PSI WORKING PRESSURE.

NOTE:
1. VACUUM RELIEF VALVE SHALL CONFIRM WITH ANSI Z21.22.
2. PROVIDE EXPANSION TANK (ET-1) THERM-X-TROL ST-SC-DD OR SIMILAR.
3. WATER HEATER COMES WITH INBUILT RE-CIRCULATION PUMP. CONNECT THE HOT WATER RETURN LINE TO WATER HEATER AS PER MANUFACTURERS INSTRUCTIONS.

KITCHEN EQUIPMENT SCHEDULE									
EQUIPMENT					PLUMBING				
ITEM #	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	WATER		WASTE		
					COLD	HOT	DIRECT	INDIRECT	
3	1	USED OIL STORAGE TANK	MAHONEY	SECUTE TRACK (ST)	-	-	-	-	
4	1	3 COMPARTMENT SINK	BK RESOURCES	BKS6-3-1620-14-18TS	1/2'	1/2"	-	1-1/2"(3)	
5	1	WORK TABLE W / PREP SINK	BK RESOURCES	BKMPT-3072S-L-P-G	1/2'	1/2"	-	1-1/2"	
13	3	HOT FOOD WELL TABLE, ELECTRIC WITH DOUBLE OVERSHELF	DELFIELD	EHEI36C	1/2'	-	-	1"	
17	1	POST-MIX ICE DRINK DISPENSER WITH ICEMAKER	CORNELIUS	ENDURO 150	1/2"	-	-	1"	
19	2	HAND SINK	BK RESOURCES	BKHS-W-1410-SS-P-G	1/2"	1/2"	1-1/2"	-	
24	1	MOP SINK	TBD	TBD	1/2"	1/2"	3"	-	
27	1	SHAKE MACHINE	STOELTING	F122-3812	-	-	-	I.D	
33	1	POTATO PEELER	SAMMIC	PI-10	1/2"	-	-	I.D	

NOTES: CONTRACTOR TO COORDINATE WITH ARCHITECT/OWNER FOR THE EQUIPMENT MODEL NUMBER.

THERMOSTATIC MIXING VALVE								
ITEM	CAPACITY (GPM)	PRESSURE DROP (PSI)	MINIMUM FLOW (GPM)	MAKE	CW INLET	HIGH TEMP. INLET	LOW TEMP. OUTLET	REMARKS
TMV	15	5	1	ACORN MV17-2	3/4"	3/4"*(140°F)	1"*(120°F)	-BRONZE BODY AND LEAD FREE CONSTRUCTION -ASSE CERTIFIED

GREASE INTERCEPTOR SCHEDULE				
ITEM	SERVICE	FLOW RATE (GPM)	GREASE CAPACITY(LBS)	MANUFACTURER AND MODEL
GREASE INTERCEPTOR (GI)	KITCHEN WASTE	75	125	SCHIER MODEL GB-75
NOTE- 1. CONTRACTOR TO PROVIDE ALL REQUIRED ACCESSORIES FOR SATISFACTORY WORKING OF GREASE TRAP AS PER SITE CONDITIONS. 2. IF GROUNDWATER LEVEL (FLOOD LEVEL) IS BELOW TANK TOP (AK1 CONDITION): PROVIDE SCHIER AK1 ANTI FLOTATION ANCHOR KIT FOR HIGH GROUNDWATER INSTALLATION. INSTALL GREASE INTERCEPTOR PER MANUFACTURER INSTALLATION INSTRUCTIONS INCLUDING CONCRETE PAD, APPROVED BACKFILL (AASHTO M43 SIZE #57 OR SIMILAR) AND HAND COMPACTION ONLY. 3. IF GROUNDWATER LEVEL (FLOOD LEVEL) EXCEEDS TANK TOP (CONCRETE VAULT CONDITION): GREASE INTERCEPTOR SHALL BE INSTALLED INSIDE A WATERTIGHT CONCRETE VAULT OR FULLY CONCRETE ENCASED PER MANUFACTURER REQUIREMENTS. 4. BEFORE FINALIZING INSTALLATION TYPE, COMPARE: 1) SEASONAL HIGH GROUNDWATER ELEVATION. 2) TOP ELEVATION OF INTERCEPTOR TANK BODY. IF GROUNDWATER IS BELOW TANK TOP - PROVIDE SCHIER AK1. IF GROUNDWATER ABOVE TANK TOP - PROVIDE CONCRETE VAULT.				

CITY APPROVAL

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE ALL APPLICABLE CODES.
COPYRIGHT 2005 ELSER ASSOCIATES. ALL RIGHTS RESERVED.

DATE:	ISSUED FOR:
11/21/25	ISSUED FOR PERMIT
02/19/26	ISSUED PER CITY COMMENTS

PLUMBING SCHEDULES

P5.1

NOTE: COORDINATE GAS DEMAND REQUIREMENTS. DEVELOPED LENGTH = 70 FEET

LOW PRESSURE SYSTEM
INLET PRESSURE - <2 PSI
PRESSURE DROP - 0.5 PSI
LONGEST LENGTH - 70'(APPROX)

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, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

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. VERIFY ALL EQUIPMENT MBH PRIOR TO INSTALLATION. ADJUST PIPE SIZE ACCORDING (INTERNATIONAL FUEL GAS CODE 2021, TABLE 402.4(2))

