MECHANICAL GENERAL NOTES

- DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS (IF PROVIDED AS PART OF THE CONTRACT) ARE A PART OF THIS
- 2. THE TERM "CONTRACTOR" SHALL MEAN THE "MECHANICAL CONTRACTOR HIRED TO COMPLETE THE WORK OUTLINED IN THESE PLANS AND SPECIFICATIONS", UNLESS OTHERWISE SPECIFIED.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR SUBCONTRACTORS WITH A FULL SET OF BID DOCUMENTS INCLUDING SPECIFICATIONS AND MUST COORDINATE ITS WORK AND INSPECTIONS AND THE WORK AND INSPECTION OF THEIR SUBCONTRACTORS WITH ALL OTHER TRADES ON SITE TO CONFORM WITH THE GENERAL CONTRACTOR'S TIME SCHEDULE.

. THE CONTRACTOR FOR THIS WORK IS REQUIRED TO REVIEW ALL DRAWINGS FOR ALL OTHER TRADES.

- 5. BY SUBMITTING A QUOTATION OR PROPOSAL THE MECHANICAL CONTRACTOR EXPRESSLY STATES AND WARRANTS THAT ALL DRAWINGS AND SPECIFICATIONS HAVE BEEN THOROUGHLY REVIEWED, AND THAT THIS CONTRACTOR HAS BECOME FAMILIARIZED WITH JOB SITE CONDITIONS AND IS TOTALLY QUALIFIED TO PERFORM
- BEFORE SUBMITTING A FINAL PROPOSAL THE CONTRACTOR SHALL EXAMINE THE SITE OF THE PROPOSED WORK TO DETERMINE THE EXISTING CONDITIONS THAT MAY AFFECT THE PROPOSAL. IF DISCREPANCIES ARE NOTED BETWEEN THE DOCUMENTS AND THE EXISTING CONDITIONS THE ARCHITECT SHALL BE NOTIFIED AND THE CONTRACTOR SHALL RECEIVE CLARIFICATION BEFORE SUBMITTING A BID. THE SUBMISSION OF A PROPOSAL SHALL INDICATE THAT ALL CHARGES AND COSTS MADE NECESSARY BY EXISTING CONDITIONS ARE INCLUDED AND THAT THE COMPLETE SYSTEM AS DESCRIBED HEREIN WILL BE FURNISHED AT THE PROPOSED COST.
- A. THE HVAC SUBCONTRACTOR IS REQUIRED TO VISIT THE SITE DURING BIDDING AND VERIFY LOCATION(S) OF WHERE DUCTWORK IS INDICATED TO BE PLACED, THEIR ROUTES AND POSSIBLE INTERSECTION(S) WITH OTHER EQUIPMENT/WORK (PLUMBING, SPRINKLER, ELECTRICAL, ETC.) TO BE INSTALLED AND/OR EXISTING TO REMAIN AND TO VERIFY HEIGHTS TO "BE INSTALLED" TO MAINTAIN DESIGNED CEILING HEIGHTS AND HEAD ROOM. ANY DISCREPANCIES BETWEEN DESIGNED AND ACTUAL ARE TO BE TOLD TO THE GENERAL CONTRACTOR AND BE INDICATED ON THE BID FORM
- WHEN USED, THE TERM "PROVIDED BY CONTRACTOR" SHALL BE INTERPRETED AS MEANING "FURNISHED AND INSTALLED BY CONTRACTOR" WITH THE EXCEPTION WHERE ITEMS ARE "PROVIDED BY TENANT" SHALL BE INTERPRETED AS MEANING "FURNISHED BY TENANT (INSTALLED BY CONTRACTOR)", EXCEPT WHERE NOTED

. GENERAL REQUIREMENTS

- THE MECHANICAL SUBCONTRACTORS QUOTING ON THEIR SPECIFIC SCOPE OF WORK/SERVICES TO CONTACT THE LOCAL BUILDING DEPARTMENT/AGENCY TO DISCUSS CODE ISSUES/IDIOSYNCRASIES REGARDING THEIR SERVICES AND THE QUOTE ASSOCIATED WITH THE SERVICES TO THE GENERAL CONTRACTOR FOR THIS PROJECT. THIS CONTRACTOR TO BE FAMILIAR WITH THE SITE WHERE SUCH SERVICES/WORK WILL BE PERFORMED. THIS SPECIFIC USE AND THE IDIOSYNCRASIES ASSOCIATED WITH THE LIFE. SAFETY AND HEALTH ASSOCIATED WITH THIS WORK AND TO INDICATE ON THE QUOTE ANY ITEMS REQUIRED THAT ARE NOT NECESSARILY SHOWN ON THE DRAWINGS/SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS FOLLIPMENT SERVICES TOOLS TRANSPORTATION INCIDENTALS AND DETAILS NECESSARY TO PROVIDE COMPLETE AND FULLY FUNCTIONAL MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS. AS CALLED FOR IN THE SPECIFICATIONS (IF SUPPLIED) AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH LANDLORD AS REQUIRED. FIELD VERIFY THE EXACT TYPE, SIZE, LOCATION, REQUIREMENTS, ETC. OF EXISTING EQUIPMENT, PIPE AND DUCTS SERVING THE TENANT SPACE PRIOR TO SUBMISSION OF BID.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE PROVIDED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS NECESSARY TO COMPLETE THE WORK OR WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE PROVIDED AS PART OF THE CONTRACT.
- WHERE THE DRAWINGS AND / OR SPECIFICATIONS CALL FOR ITEMS THAT EXCEED CODES OR THE LANDLORD'S TENANT CRITERIA, THE CONTRACTOR IS STILL RESPONSIBLE FOR PROVIDING THE SYSTEM AS DESIGNED AND DESCRIBED ON THE DRAWINGS. UNLESS SPECIFICALLY NOTED OTHERWISE
- THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH DETAILED REQUIREMENTS OF LEASE EXTRACTS FROM THE
- COORDINATE LOCATIONS OF ALL AIR OUTLETS WITH ALL WALLS, LIGHTS, SPRINKLER HEADS, CEILING TILES AND DECORATIVE CEILING FIXTURES PRIOR TO INSTALLATION.
- ALL MECHANICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION, SERVICE, MAINTENANCE AND REPAIR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT ACCESS TO ALL
- 3. THE CONTRACTOR SHALL DO ALL CUTTING, CORE DRILLING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS CONTRACT. CUTTING SHALL HAVE PRIOR APPROVAL BY THE TENANT'S

CONSTRUCTION MANAGER AND THE LANDLORD OR LANDLORD'S REPRESENTATIVE. PATCHING SHALL MATCH

ALL WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER USING GOOD CONSTRUCTION PRACTICES. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE LANDLORD'S CRITERIA: THE STATE, COUNTY AND LOCAL CODES AND ORDINANCES: THE LATEST EDITIONS OF ASHRAE STANDARDS: THE LIFE SAFETY CODE: THE APPLICABLE BUILDING CODE: UNDERWRITERS LABORATORIES: THE NATIONAL ELECTRICAL CODE; NFPA 70, 90A, AND 96; AND ALL OTHER APPLICABLE CODES ENFORCED BY AUTHORITIES HAVING JURISDICTION. THE CHANGES REQUIRED BY ANY APPLICABLE CODES SHALL BE INCLUDED IN THE BID. AFTER THE CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE TENANT TO

LICENSES, PERMITS, INSPECTIONS AND FEES

FINISH OF SURROUNDING AREA.

- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS AND FEES REQUIRED OR RELATED TO THIS WORK.
- FURNISH TO THE TENANT'S CONSTRUCTION MANAGER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

- DRAWINGS (PLANS AND SPECIFICATIONS) ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE MECHANICAL SYSTEMS. BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL DUCT AND PIPE OFFSETS. FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED. THE MECHANICAL CONTRACTOR MUST OBTAIN APPROVED CONSTRUCTION DRAWINGS FROM THE GENERAL CONTRACTOR BEFORE
- THE LAYOUT SHOWN ON THE DRAWINGS IS BASED ON A PARTICULAR MAKE OF EQUIPMENT. IF ANOTHER MAKE OF EQUIPMENT IS USED WHICH REQUIRES MODIFICATION OR CHANGE OF ANY DESCRIPTION FROM THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE AS PART OF THIS WORK, FOR MAKING ALL SUCH MODIFICATIONS AND CHANGES, INCLUDING THOSE INVOLVING OTHER TRADES WITH THE COST THEREOF INCLUDED IN THE BID. IN SUCH CASE, CONTRACTOR SHALL SUBMIT DRAWINGS AND SPECIFICATIONS PRIOR TO STARTING WORK SHOWING ALL SUCH MODIFICATIONS AND CHANGES. THE PROPOSAL SHALL BE SUBJECT TO THE APPROVAL OF THE TENANT'S CONSTRUCTION MANAGER.

EXISTING LEASE SPACE CONDITIONS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING MECHANICAL WORK IN THE SPACE NOT SHOWN TO BE REUSED IN THE NEW TENANT SPACE.
- IF REQUIRED BY THE LANDLORD OR CODES, ABANDONED PIPING AND / OR DUCTWORK MUST BE REMOVED TO POINT OF ORIGIN. CONFIRM THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSA
- ACTIVE LANDLORD OR OTHER TENANT SERVICES ENCOUNTERED IN WORK SHALL BE PROTECTED AND SUPPORTED. IF EXISTING SERVICES NOT ANTICIPATED REQUIRE RELOCATION, CONTACT THE TENANT'S CONSTRUCTION MANAGER IMMEDIATELY. ALL COSTS FOR REPAIR OF DAMAGES TO ACTIVE LANDLORD OR OTHER ENANT SERVICES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR CAUSING THE DAMAGE.
- TIE-INS AND MODIFICATIONS TO EXISTING LANDLORD SERVICES MUST BE DONE WITH MINIMUM INTERRUPTION OF LANDLORD OPERATION AND DURING HOURS SPECIFIED BY THE LANDLORD. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXACT WORKING HOURS OF THIS WORK WITH THE LANDLORD PRIOR TO SUBMITTING THEIR BID. THE CONTRACTOR SHALL INCLUDE IN THEIR BID, ALL PREMIUM TIME REQUIRED TO PERFORM MODIFICATIONS DURING OTHER THAN NORMAL WORKING HOURS. ALL SUCH WORK MUST BE COORDINATED WITH THE LANDLORD
- EQUIPMENT AND MATERIALS IN TRANSIT SHALL UTILIZE FREIGHT ELEVATOR OR STAIRS. SAID EQUIPMENT OR MATERIALS SHALL BE DISASSEMBLED AS REQUIRED TO MEET THE RESTRICTIONS IMPOSED BY THE BUILDING OR ITS COMPONENT CONSTRAINTS AND THEN REASSEMBLED IN THE NEW WORK AREA
- . ALL WORK SHALL BE DONE WITH A MINIMUM OF NOISE AND DISTURBANCE TO BUSINESS ROUTINE. ALL WORK SCHEDULES SHALL BE COORDINATED WITH, AND APPROVED BY, THE TENANTS CONSTRUCTION MANAGER.
- SINCE THESE ARE SECURE FLOORS, ALL DELIVERIES, WORKERS, WORK OPERATORS, ETC., REQUIRED BY THE CONTRACTOR FOR WORK PERFORMED IN ANY AREA OR SITE BUILDING SHALL BE IN STRICT CONFORMANCE TO THE RULES AND REGULATIONS OF THE OWNER
- CONTRACTOR SHALL PROTECT THEIR WORK AND FOLIPMENT FROM DAMAGE VANDALS FTC. ANY ITEM THAT IS DAMAGED, VANDALIZED OR STOLEN PRIOR TO ACCEPTANCE OF BUILDING BY OWNER AND ARCHITECT SHALL BE REPLACED BY RESPECTIVE CONTRACTOR AT NO CHARGE TO TENANT IT IS SPECIFICALLY THE INTENTION OF THIS SPECIFICATION TO HOLD THE CONTRACTOR RESPONSIBLE FOR ALL
- DAMAGE DONE TO ANY EXISTING FACILITIES. EQUIPMENT. PAINTING. OR ARCHITECTURAL AND STRUCTURAL FEATURES OF THE BUILDING. BY EITHER THEIR OWN WORKMEN OR BY ANY OF THEIR SUBCONTRACTORS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE DONE BY THEIR OWN WORKMEN OR SUBCONTRACTORS AND THE OWNER AT THEIR DISCRETION. MAY WITHHOLD PAYMENTS EQUAL TO THE REASONABLE COST OF THE REPAIRS.
- THIS CONTRACTOR OR THEIR WORKMEN SHALL NOT BE PERMITTED TO USE ANY PART OF THE EXISTING BUILDING AS A SHOP WITHOUT THE APPROVAL OF THE OWNER AND ARCHITECT
- WHERE THE WORK MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE. THEY SHALL BE MADE AT NIGHT OR AT SUCH TIMES AS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE.
- THIS CONTRACTOR SHALL ARRANGE THE WORK SO AS TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTION TO THE EXISTING WORK. THIS
- B. ALL MOTORS, FANS, CONTROLS, FIXTURES, HVAC UNIT, DUCTWORK AND OTHER EQUIPMENT FOR USE IN THIS CONTRACT SHALL BE PROTECTED BY TARPAULIN OR BY BOXING AS SOON AS DELIVERED TO THE SITE AND SHALL BE KEPT CLEAN AND DRY. THE MOTORS, UNITS, FIXTURES, FANS, DUCTWORK AND MOVING PARTS SHALL BE KEPT COVERED SO AS TO ELIMINATE DIRT, DUST AND OTHER MATERIALS ENTERING THE PARTS DURING ERECTION AND CONSTRUCTION WORK ON THE BUILDING. SHOULD IT BE FOUND THAT ANY PARTS ARE DAMAGED DUE TO CARELESSNESS ON THE PART OF THE CONTRACTOR IN NOT PROVIDING PROPER PROTECTION, SUCH PART OR PARTS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR OWN COST AND EXPENSE. ALL OPENINGS IN DUCTS. PIPING, CONDUITS, ETC., SHALL BE PROPERLY PROTECTED WITH TEMPORARY CAPS OR PLUGS AT ALL TIMES.

CONTRACTOR SHALL GIVE AMPLE WRITTEN NOTICE IN ADVANCE TO THE OWNER OF ANY REQUIRED SHUT DOWN.

14. THE CONTRACTOR, IN REGARDS TO ANY SAWCUTTING, COREDRILLING OR ANY PENETRATING OF A CONCRETE SLAB, FLOOR AND/OR ROOF, IS REQUIRED TO SURVEY DURING BIDDING TO DETERMINE ANY ISSUES, INCLUDING BUT NOT LIMITED TO, NECESSITY OF X-RAYING OF A CONCRETE SLAB, WHERE SUCH MATERIAL BEING PENETRATED IS NOT PROJECTED AND/OR ROUTED INTO A SPACE(S) THAT CREATES A NON-CODE COMPLIANT CONDITION, THE NEED FOR WEATHERSTRIPPING, WATERPROOFING OR OTHER CONDITION AND TO NOTIFY THE OWNER IF A PROBLEM(S) MAY EXIST AND TO INCLUDE COSTS TO SOLVE THE ISSUE UNCOVERED, IN ADDITION TO, NOTIFYING THE ARCHITECT OF RECORD REGARDING SUCH ISSUE(S)

DISCREPANCIES IN DOCUMENTS

DRAWINGS (PLANS, SPECIFICATIONS AND DETAILS) ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE MECHANICAL SYSTEMS. WHERE DRAWING, EXISTING SITE CONDITIONS, SPECIFICATIONS OR THER TRADES CONFLICT OR ARE UNCLEAR. ADVISE THE GENERAL CONTRACTOR IN WRITING. PRIOR TO SUBMITTAL OF BID. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ADVISE THE TENANT'S CONSTRUCTION. MANAGER, IN WRITING, OF VARIATIONS TO THE CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BID. OTHERWISE. TENANT'S CONSTRUCTION MANAGER'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

I. TRADE NAMES AND MANUFACTURERS

WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT FOUIPMENT SHALL BE USED AS A MINIMUM STANDARD FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN FOLIVALENT OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO REVIEW IN WRITING BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO ACCEPTANCE. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

. SHOP DRAWINGS

SUBMIT THREE CODIES OF MATERIAL LISTS AND SHOP DRAWINGS FOR ALL, FOLLIPMENT AND DUCT FARRICATION DRAWINGS TO THE TENANT'S CONSTRUCTION MANAGER FOR REVIEW PRIOR TO ORDERING EQUIPMENT. SUBMISSIONS MUST BE EARLY ENOUGH TO ALLOW THE TENANT'S CONSTRUCTION MANAGER EIGHT WORKING DAYS FOR REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOB'S PROGRESS. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE GENERAL CONDITIONS USING THE MANUFACTURER'S LISTED ON THE DRAWINGS. SHOP DRAWINGS SHALL INCLUDE ALL DATA THAT PERTAINS TO THE REQUIREMENTS SET FORTH ON THE DRAWINGS AND IN THE SPECIFICATIONS. THE SUBMITTAL SHALL INCLUDE BUT NOT BE LIMITED TO CUTS OR CATALOGS INCLUDING DESCRIPTIVE LITERATURE AND CHARACTERISTICS OF EQUIPMENT SHALL SHOW MAJOR DIMENSIONS, ROUGHING-IN DATA, CAPACITY, CURVES, PRESSURE DROPS, CODE COMPLIANCE, MOTOR AND DRIVE DATA AND ELECTRICAL DATA. OBSERVE SPECIAL INSTRUCTIONS WHEN REQUIRED. SUBMITTALS SHALL BEAR THE STAMP OF THE GENERAL AND SUBCONTRACTOR SHOWING THAT HE HAS REVIEWED AND CONFIRMED THAT THEY ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS OR INDICATE WHERE EXCEPTIONS TAKE PLACE. LACK OF SUCH CONTRACTOR'S REVIEW WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY TENANT'S CONSTRUCTION MANAGER. ALL SHOP DRAWINGS MUST APPEAR IN THE OPERATION AND MAINTENANCE MANUALS

A. BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS TO THE CLIENT AND ARCHITECT THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA

- RELATED THERETO, OR WILL DO SO AND (3) CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
- B. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK FOR WHICH THE CONTRACT DOCUMENTS REQUIRE SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS
- C. THE WORK SHALL BE IN ACCORDANCE WITH APPROVED SUBMITTALS EXCEPT THAT THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY ANY APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE CLIENT IN WRITING OF SUCH DEVIATION AT THE

UNTIL THE RESPECTIVE SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT.

- C.1. THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION AS A MINOR CHANGE IN THE
- C.2. A CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE HAS BEEN ISSUED AUTHORIZING THE
- C.3. THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PREVIOUS SUBMITTALS. IN THE ABSENCE OF SUCH WRITTEN NOTICE, THE ARCHITECT'S APPROVAL OF A RESUBMISSION SHALL NOT APPLY TO SUCH REVISIONS.
- 2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND / OR THEIR SUBCONTRACTORS TO FURNISH SHOP DRAWINGS AND SUBMITTALS ON ANY AND ALL EQUIPMENT, DUCT, DAMPERS, CONTROLS ETC. TO THE TENANT'S CONSTRUCTION MANAGER OR ARCHITECT FOR THEIR REVIEW PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS, OMISSIONS OR OTHER DEFICIENCIES OR DEVIATIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE TENANT'S CONSTRUCTION MANAGER'S OR ARCHITECT'S APPROVALS THEREOF.

J. RECORD DRAWINGS

- 1. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF DRAWINGS AND SPECIFICATIONS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS SUCH AS LOCATIONS OF CONCEALED PIPING VALVES AND DUCTS REVISIONS. ADDENDUM'S AND CHANGE ORDERS. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS. APPROVED EQUIPMENT SUBSTITUTIONS AND CONTRACTOR'S COORDINATION WITH OTHER TRADES AND EXACT ROLLING OF ALL SANITARY AND DOMESTIC WATER PIPING LINDER FLOOR
- 2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THE CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. THE DRAWINGS ARE TO BE TURNED OVER TO THE TENANT.

1 THE MECHANICAL CONTRACTOR SHALL INCLUDE IN THE PROPOSAL A ONE YEAR GUARANTEE WARRANTY ON ALL FOLIPMENT AND MATERIAL INSTALLED OR REFURBISHED, ALL MATERIALS AND WORK LINDER THE CONTRACT AND SHALL MAKE GOOD REPAIR OR REPLACE AT THEIR OWN EXPENSE ANY DEFECTIVE WORK MATERIAL OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF WRITTEN ACCEPTANCE OF THE INSTALLATION BY THE TENANT'S CONSTRUCTION MANAGER. IN CASE OF REPLACEMENT OR REPAIR OF EQUIPMENT DUE TO FAILURE WITHIN THE GUARANTEE PERIOD. THE GUARANTEE ON THAT PORTION OF WORK SHALL BE EXTENDED FOR A PERIOD OF 12 MONTHS FROM THE DATE OF SLICH REPLACEMENT OR REPAIR THIS GUARANTEE, WARRANTY IS TO INCLUDE ALL LABOR, MATERIAL, PARTS, ETC. NECESSARY TO MAINTAIN THE SYSTEM IN SATISFACTORY OPERATION FOR A PERIOD OF ONE YEAR STARTING FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE TENANT. IT SHALL ALSO INCLUDE ONE SUMMER TO WINTER CHANGEOVER AND ONE WINTER TO SUMMER CHANGEOVER, A NEW SET OF FILTERS AT THE TIME OF STARTUP AND TWELVE (12) MONTHLY FILTER CHANGES DURING THE FIRST YEAR. THE NORMAL PREVENTATIVE MAINTENANCE WORK SHALL BE PERFORMED AT THE TIME OF THE FILTER CHANGES. USE ONLY #40 PLEATED TYPE AIR FILTERS.

<u>K. GUARANTEE, WARRANTY</u>

1. ONE COPY OF EACH OPERATION AND MAINTENANCE MANUAL FOR ALL EQUIPMENT FURNISHED ON THE JOB SHALI BE PROVIDED TO THE TENANT BOUND TOGETHER IN A 3 INCH, THREE RING BINDER. THE BINDER SHALL INCLUDE BUT NOT BE LIMITED TO INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS, PAMPHLETS OR BROCHURES, REVIEWED SHOP DRAWINGS AND WARRANTIES OBTAINED FROM EACH MANUFACTURER OF PRINCIPAL ITEMS OF EQUIPMENT

- 1. THE CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL, OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2 INCHES ABOVE THE
- 2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND / OR FLOORS SHALL BE FIRE SEALED WITH APPROVED SEALANTS RATED FOR THE APPLICATION SO AS TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY. CONFORM TO THE U.L. ASSEMBLY RATING OF THE FLOOR OR WALL.
- 3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE 22 GAUGE GALVANIZED STEEL MINIMUM. 4. DUCT SLEEVES SHALL BE MINIMUM 14 GAUGE STEEL.

- 1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC. NECESSARY FOR THE INSTALLATION OF WORK
- 2. HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING OR DUCTWORK DUCTWORK SHALL NOT BE SUPPORTED FROM ROOF DECKING AND/OR BRIDGING BUT SHALL BE SUSPENDED FROM THE TOP CHORD OF BAR JOISTS, STEEL OR OTHER STRUCTURE. DUCTWORK SHALL CLEAF ALL SPRINKLERS AND OTHER OBSTACLES AND SHALL BE HUNG AS HIGH AS POSSIBLE IN WORK AND STORAGE AREAS WHERE INTERFERENCE'S OCCUR IN ORDER TO SUPPORT DUCTWORK OR PIPING THE CONTRACTOR MUST INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS VALVES ACCESS DOORS AND OTHER EQUIPMENT SERVICE REQUIREMENTS AND/OR OTHER TRADES. HANGER TYPES AND INSTALLATION METHODS ARE SUBJECT TO
- 3. HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6 INCH LONG SPLIT CIRCLE GALVANIZED SADDLE BETWEEN THE HANGER AND THE PIPE

4. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED FROM ONE ANOTHER.

LANDLORD CRITERIA.

- 1. FURNISH STEEL ACCESS DOORS AND FRAMES, MINIMUM 16 INCHES BY 20 INCHES OR AS REQUIRED FOR ADEQUATE ACCESS TO THE GENERAL CONTRACTOR FOR ALL LOCATIONS WHERE NECESSARY TO PROVIDE ACCESS TO CONCEALED VALVES AND OTHER EQUIPMENT REQUIRING SERVICE OR INSPECTION. LOCATION. TYPE. SIZE AND NUMBER WILL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE TENANT CONSTRUCTION MANAGER TO SUIT EQUIPMENT REQUIREMENTS. GENERAL CONTRACTOR WILL INSTALL ACCESS DOORS AND
- 2. ACCESS DOORS LOCATED IN FIRE-RATED WALLS, FLOORS, CEILING-FLOOR, OR CEILING-ROOF ASSEMBLIES SHALL
- 3. ACCESS DOORS SHALL BE FLUSH TYPE, MANUFACTURED FROM 14 GAUGE STEEL, COMPLETE WITH FLUSH FLANGE TYPE FRAMES MANUFACTURED FROM 16 GAUGE STEEL, PROVIDED WITH ANCHORS. ACCESS DOORS SHALL BE SUITABLE FOR INSTALLATION IN WALL OR CEILING MATERIALS SHOWN IN ROOM FINISH SCHEDULES. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES, VENTS, DAMPERS, FIRE DAMPERS, EXPANSION JOINTS, PULL 30XES, SHOCK ABSORBERS, DRAINS, MOTORS, FANS, PUMPS AND ANY OTHER ITEM REQUIRING SERVICE. DOORS IN PLASTER OR CONCRETE SURFACES SHALL HAVE A RECESSED DOOR WITH CONCRETE OR PLASTER FACING. DOORS IN CARPETED OR TILED AREAS SHALL BE RECESSED WITH TILE FACING. NO ACCESS DOORS ARE REQUIRED IN 2' x 2' AND 2' x 4' LAY-IN ACOUSTIC TILE CEILING. PROVIDE COLORED PINS TO DENOTE ACCESS TILES. FURNISH FACTORY MADE METAL ACCESS DOORS, COMPLETELY FLUSH, "ALLAN HEAD" SCREWDRIVER OPERATED, WITH FRAMES AND CAM-TYPE CATCH WITH STAINLESS STEEL STUD. DOORS SHALL BE NOT LESS THAN 1' x 1' FOR HAND ACCESS. DOORS IN WALLS AND CEILING SHALL BE PRIME COATED CARBON STEEL. FURNISH FIRE RATED DOORS FOR FIRE RATED CONSTRUCTION. RATING OF DOOR MUST BE SAME RATING AS CONSTRUCTION.

P. ELECTRIC MOTORS

- 1. FURNISH, INSTALL AND ALIGN ALL MOTORS REQUIRED FOR THIS EQUIPMENT, UNLESS THEY ARE FACTORY INSTALLED ON THE UNIT. ALL STARTERS AND ASSOCIATED WIRING AND SAFETY SWITCHES FOR SUCH MOTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. STARTERS SHALL MEET ALL REQUIREMENTS AS DEFINED IN THE ELECTRICAL SPECIFICATIONS.
- . DESIGN, CONSTRUCTION AND PERFORMANCE CHARACTERISTICS OF MOTORS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF LATEST NEMA, ANSI, ISEE STANDARDS FOR ELECTRICAL EQUIPMENT. ALL MOTORS SHALL BE SUITABLE FOR OPERATION ON VOLTAGE VARIATION OF PLUS OR MINUS 10 PERCENT, 40 DEGREES C AMBIENT TEMPERATURE AND HAVE A SERVICE FACTOR OF NOT LESS THAN 1.15. Q. LOW VOLTAGE (24 VOLT) WIRING
- 1. THE CONTRACTOR IS TO INSTALL ALL LOW VOLTAGE WIRING REQUIRED FOR THEIR EQUIPMENT. THIS WORK INCLUDES ALL TRANSFORMERS AND DEVICES TO MAKE THIS A COMPLETE FUNCTIONAL SYSTEM.
- 2. ALL WORK IS TO CONFORM TO THE ELECTRICAL SPECIFICATIONS AND THE REQUIREMENTS OF THE AUTHORITIES
- 3. ANY CONDUIT REQUIRED BY CODE OR THE LANDLORD WILL BE INSTALLED BY THE ELECTRICAL SUBCONTRACTOR. 4 SMOKE DETECTORS AND REMOTE TEST STATION:
- A. IONIZING TYPE ARE TO BE USED ON THE RETURN SIDE OF THE AHU AND PHOTO-TYPE ARE TO BE USED ON THE SUPPLY SIDE. ON ALL OTHER TYPES OF HVAC UNITS WHERE SMOKE DUCT DETECTORS ARE REQUIRED USE FIFI D INSTALLED IONIZING TYPE IN RETURN DUCTWORK AND PHOTO-TYPE ON THE SUPPLY LOCATED BEFORE THE FIRST TAKEOFF. ONCE ACTIVATED, THE SMOKE DETECTOR WILL SHUT DOWN HVAC UNIT.
- B. SMOKE DETECTORS SHALL HAVE THEIR OWN REMOTE KEY TEST STATION SYSTEM WITH AUDIBLE AND VISU ALARM, SIMPLEX MODEL 4098-9842 OR APPROVED EQUIVALENT. ALARM TO HAVE CANDELA SETTING OF 75 A A HIGH VOLUME HORN TONE SETTING.

C. ALARM SYSTEM MAY BE DELETED WHERE NOT REQUIRED BY LANDLORD OR BY LOCAL COL -- SPECIFIC NOTES --

- 1. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS TO SEQUENCE, COORDINATE AND INTEGRATE THE VARIOUS ELEMENTS OF THE HVAC SYSTEM, MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCE'S AND CONFLICTS.
- B. HVAC EQUIPMENT (REFER TO PLANS FOR SCHEDULE OF EQUIPMEN)
- 1. PRIMARY HVAC UNITS ARE TO BE AS SCHEDULED. EQUIVALENTS MAY BE SUBSTITUTED WITH WRITTEN APPROVAL ONLY. ALL COMPRESSORS ARE TO INCLUDE A 5 YEAR EXTENDED WARRANTY. 2. ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE
- 3. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT MUST HAVE A CONDENSATE DRAIN AND BE TRAPPED IN ACCORDANCE WITH MANUFACTURER'S DATA. SEE DRAWINGS FOR ADDITIONAL DETAILS.
- SECONDARY DRAIN PANS ARE REQUIRED TO BE INSTALLED BENEATH ALL INDOOR AIR CONDITIONING EQUIPMEN WITH THE EXCEPTION OF AIR TERMINAL BOXES. SECONDARY PANS ARE TO PROTECT ENTIRE UNIT. PROVIDE CONDENSATE PUMPS AS REQUIRED. CONDENSATE SHALL BE DIRECTED TO MOP SINK, LAVATORY TRAP OR OTHER APPROVED DRAIN.

C. TOILET EXHAUST FANS

1. WHERE SHOWN ON DRAWINGS PROVIDE A TOILET EXHAUST FAN COMPLETE WITH GRAVITY BACKDRAFT DAMPER. ALL DUCTWORK, ROOF OPENINGS AND CAPS NECESSARY TO PROVIDE A COMPLETE EXHAUST SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR. REFER TO PLANS FOR APPLICABILITY.

D. VIBRATION ISOLATION DEVICES

- 1. VIBRATION ISOLATION DEVICES SHALL BE PROVIDED IN ALL SUPPORTS BETWEEN VIBRATING EQUIPMENT (FANS. ROOFTOP UNITS, WATER SOURCE HEAT PUMPS, AIR HANDLERS, FAN POWERED VAV BOXES, ETC.) AND
- 2. VIBRATING EQUIPMENT HUNG FROM STRUCTURE SHALL BE ISOLATED WITH RUBBER AND SPRING DEVICES. VIBRATING EQUIPMENT SUPPORTED FROM FLOOR OR DECK SHALL BE ISOLATED WITH HOUSED SPRING MOUNT.
- 3. EXAMINE DEAD LOAD AND OPERATING LOAD CONDITIONS WHEN SELECTING DEVICES. ADJUST FOR PROPER ALIGNMENT AND LOADING. AVOID "GROUNDING" THE ISOLATOR.
- 4. CHECK HANGER ROD SIZE FOR ALLOWABLE LOADS AT THE ISOLATING DEVICE AND THE UPPER AND LOWER ATTACHMENTS TO STRUCTURES, DUCTS, EQUIPMENT, ETC.
- 5. CONSULT MANUFACTURER FOR APPLICATION DATA E. CURBS AND STEEL FRAMING FOR SUPPORT
- 1. THIS CONTRACTOR WILL PROVIDE ALL NECESSARY CURBS AND STEEL FRAMING REQUIRED TO INSTALL ALL HVAC EQUIPMENT. CURBS SHALL BE A MINIMUM OF 14 INCHES HIGH AND OF THE SAME MANUFACTURER AS THE EQUIPMENT SUPPORTED. INSULATE UNDER THE COMPRESSOR SECTION TO PREVENT CONDENSATION. AL CURBS MUST BE INSTALLED SO THAT THE TOP OF CURBS ARE "DEAD" LEVEL. ALL PENETRATIONS OF EXISTING

- STRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE LANDLORD'S GUIDELINES AT THIS CONTRACTOR'S EXPENSE. ALL CONNECTIONS TO ROOFTOP EQUIPMENT SHALL BE INSIDE THE CURB (CONDENSATE DRAIN,
- POWER WIRING, CONTROL WIRING, ETC.). F. METAL DUCTWORK - NO FIBERGLASS DUCT ALLOWED
 - 1. NO DUCTWORK SHALL BE FABRICATED PRIOR TO APPROVAL BY THE TENANT'S CONSTRUCTION MANAGER DEVIATIONS FROM DESIGN MUST BE APPROVED BY TENANT'S CONSTRUCTION MANAGER PRIOR TO FABRICATION OR INSTALLATION. ALL DUCT SHOWN AS ROUND ABOVE A CEILING SHALL BE LONGITUDINAL SEAM DUCT AND
 - SPIRAL WHERE EXPOSED, OR AS SHOWN ON THE DRAWINGS 2. ALL DUCTWORK SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW VELOCITY AND "HVAC DUCT CONSTRUCTION STANDARDS MANUAL", LATEST EDITION AND ASHRAE USING PRIME SHEETS OF GALVANIZED STEEL. CONFORM TO THE REQUIREMENTS IN THE REFERENCED STANDARD FOR METAL THICKNESS

REINFORCING TYPES AND INTERVALS. TIE ROD APPLICATIONS AND JOINT TYPES AND INTERVALS. ALL SQUARE

ELBOWS SHALL BE PROVIDED WITH DOUBLE WALLED VANES ON MAXIMUM 3" CENTERS. PROVIDE SEAL CLASS "C"

- ON ALL TRAVERSE JOINTS UNLESS SUPERSEDED BY MORE STRINGENT LOCAL CODES. ALL DUCT CONNECTIONS ARE TO BE RIGID AND LEAK FREE ASSEMBLIES. 3. DURING THE CONSTRUCTION PHASE OF THE PROJECT, ANY DUCTWORK INSTALLED IS TO BE COMPLETELY SEALED UP OF ANY OPENINGS, EITHER AT THE BEGINNING OR END OF A DUCT RUN OR AT A BRANCH, COLLAR
- 4. EXCEPT WHERE OTHERWISE INDICATED, CONSTRUCT DUCT SYSTEMS TO 2-INCH WATER GAUGE PRESSURE CLASSIFICATION (VERIFY WHETHER RETURN OR EXHAUST DUCT IS POSITIVE OR NEGATIVE PRESSURE). PRESSURE TEST DUCTS FOR LEAKAGE. REMAKE LEAKING JOINTS AND APPLY SEALANTS AS REQUIRED TO FABRICATE A SYSTEM THAT DOES NOT EXCEED 5 PERCENT LEAKAGE OR LESS AS STATED BY PRESSURE CLASS RATINGS IN SMACNA STANDARDS.

DIFFUSER OR REGISTER TO AVOID DIRT OR OTHER CONTAMINANTS FROM ENTERING THE SYSTEM.

- 5. AS A MINIMUM, CROSSBREAK ALL FLAT SURFACES OR REINFORCE WITH A BEAD APPROXIMATELY 3/8 INCH WIDE BY 3/16 INCH DEEP ON 12 INCH CENTERS TO PREVENT VIBRATIONS
- 6. INSTALL RIGID ROUND AND RECTANGULAR METAL DUCT WITH SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS. NO WOOD SHALL BE USED TO SUPPORT OR BRACE DUCTS. PROVIDE SWAY AND SEISMIC BRACING
- 7. WHERE DUCTS PASS THROUGH ROOFS, FLOORS AND FIRE RATED PARTITIONS, PROVIDE AS MINIMUM 1-1/2 INCH BY 1-1/2 INCH BY 1/8 INCH STEEL ANGLE FRAMES AT EACH SIDE OF OPENING. THE ANNUL AR SPACE BETWEEN DUCT AND ANGLE FRAMES SHALL BE CAULKED WITH SILICONE SEALANT OR FIREPROOFED AS REQUIRED BY THE ASSEMBLY FIRE RATING. CONTRACTOR TO PROVIDE FIRE OR COMBINATION FIRE / SMOKE DAMPERS AT EACH PENETRATION WHERE REQUIRED BY CODE.
- 8. ALL TRAVERSE JOINTS AND SEAMS IN SUPPLY AIR DUCT SHALL BE SEALED AIR-TIGHT WITH DAP CMC DUCT SEALER. JOINTS ALSO SHALL BE RIVETED OR CONNECTED WITH SHEET METAL SCREWS.
- 9. SOFT ELASTOMER BUTYL GASKETS WITH ADHESIVE BACKING SHALL BE USED TO SEAL FLANGED JOINTS.
- 10. DUCT TRANSITIONS SHALL NOT EXCEED 30 DEGREES SLOPE EXCEPT AS SPECIFICALLY NOTED OTHERWISE. 11 PROVIDE ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, FIRE / SMOKE DAMPERS, CONTROLS AND OTHER ITEMS IN DUCTWORK THAT REQUIRE SERVICE OR INSPECTION. IF THE ACCESS PANEL LOCATION IS EXPOSED TO THE SALES AREA. IT MUST BE APPROVED BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO INSTALLATION LAY-IN SUPPLY AND RETURN AIR DIFFUSERS, GRILLES AND REGISTERS WITH PLASTER FRAMES MAY BE USED AS **ACCESS LOCATIONS**
- 12. ALL BRANCHES AND TAKEOFFS SHALL BE EQUIPPED WITH MANUAL VOLUME CONTROLLING DEVICES HAVING AN INDICATING AND LOCKING DEVICE.

13. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS. G. FLEXIBLE CONNECTIONS

AS REQUIRED BY STATE AND LOCAL CODES OR BY LANDLORD.

- 1. FLEXIBLE COLLARS SHALL BE PROVIDED IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT (FANS. ROOFTOP UNITS, WATER SOURCE HEAT PUMPS, AIR HANDLERS, FAN POWERED VAV BOXES, ETC.) AND DUCTS OR CASINGS. ALSO PROVIDE FLEXIBLE CONNECTIONS WHERE DUCTS CROSS BUILDING EXPANSION JOINTS.
- 2. FLEXIBLE CONNECTIONS SHALL BE CONSTRUCTED OF NEOPRENE-COATED FLAMEPROOF FABRIC. PROVIDE DEQUATE JOINT FLEXIBILITY TO ALLOW FOR MOVEMENT AND PREVENT THE TRANSMISSION OF VIBRATION.

3. FLEXIBLE CONNECTIONS ARE TO BE RATED FOR THE OPERATING PRESSURE OF THE SYSTEM.

- 4. FINAL CONNECTIONS TO EXHAUST FAN(S) SHALL BE WITH A HEAVY AIRTIGHT ACID RESISTANT FIRE RETARDANT FIBERGLASS NEOPRENE CONNECTOR, A MINIMUM OF SIX (6) INCHES IN LENGTH. THE CONNECTOR SHALL BE FASTENED TO EQUIPMENT AND DUCT WITH TWO FLEXIBLE REMOVABLE BRASS STRAPS OR ALTERNATE APPROVED METHOD.
- 1. MOUNT THERMOSTATS 4'-0" (ADA-COMPLIANT), THERMOSTAT SENSORS 5'-0" ABOVE FINISHED FLOORS, OR AS SHOWN ON THE PLANS, AND SET DATE, TIME, TEMPERATURE, ETC. TURN OVER OPERATING INSTRUCTIONS TO TENANT REPRESENTATIVE. . FIRE DAMPERS, SMOKE DAMPERS
- 1. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL FIRE DAMPERS AS REQUIRED BY LANDLORD AND / OR NANT CRITERIA AND / OR CODES HAVING JURISDICTION. ALL FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF THE BOARD OF FIRE UNDERWRITERS, THE LOCAL FIRE MARSHAL AND SHALL BE LABELED AND
- 2. FIRE DAMPERS SHALL HAVE THE BLADES OUT OF THE AIR STREAM AND A 165- DEGREE 'F' FUSIBLE LINK.
- 3. PROVIDE ALL NECESSARY FRAMING AND SLEEVES FOR DAMPER MOUNTING PER UL AND CODE REQUIREMENTS.
- 4. PROVIDE DUCT ACCESS DOORS IN AN ACCESSIBLE LOCATION FOR ALL FIRE DAMPERS. DOOR IS TO BE 20-GAUGE GALVANIZED DOOR WITH QUICK-OPENING LATCH AND PIANO HINGE. 5. WHERE REQUIRED BY LOCAL CODES, LANDLORD AND IF INDICATED ON DRAWINGS, PROVIDE UL555S SMOK

DAMPER WITH FIRE / HEAT / SMOKE SENSOR, REVERSIBLE MOTOR AND INTERLOCK WITH FIRE ALARM SYSTEM.

J. FLEXIBLE AIR DUCT 1. FLEXIBLE DUCT FOR CONNECTIONS SHALL BE A FACTORY FABRICATED ASSEMBLY CONSISTING OF AN INNER

- SLEEVE, INSULATION AND AN OUTER MOISTURE BARRIER. THE INNER SLEEVE SHALL BE CONSTRUCTED OF CONTINUOUS VINYI COATED SPRING STEEL WIRE HELIX FUSED TO A CONTINUOUS LAYER OF FIBERGLAS IMPREGNATED AND COATED VINYL. A 1-1/4" THICK LAYER OF INSULATING BLANKET OF FIBERGLASS WOOL SHALL ENCASE THE INNER SLEEVE AND BE SHEATHED WITH AN OUTER MOISTURE BARRIER OF A BI-DIRECTIONAL REINFORCED METALIZED VAPOR BARRIER. THE FLEXIBLE DUCT SHALL BE RATED FOR A MAXIMUM WORKING VELOCITY OF 6000 FPM AND SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES UNDER THEIR UL-181 STANDARDS AS A CLASS 1 DUCT AND SHALL COMPLY WITH NEPA STANDARD - 90A. THE FLEXIBLE DUCT SHALL BE THERMAFLEX M-KC OR APPROVED EQUIVALENT. FLEXIBLE DUCT SHALL ROUTE FROM SHEET METAL DUCTWORK
- 2. FLEXIBLE AIR DUCT MAY ONLY BE USED IN VERTICAL APPLICATIONS WITH PRIOR APPROVAL FROM THE TENANT CONSTRUCTION MANAGER.

TO CEILING DIFFUSERS ONLY. THERE SHALL BE NO EXPOSED FLEXIBLE DUC

3. FLEXIBLE DUCT SHALL NOT EXTEND OVER 5 FEET IN LENGTH AT ANY ONE LOCATION.

K. SUPPLY AND RETURN AIR TAKEOFF FITTINGS RECTANGULAR DUCT

APPROVED BY UNDERWRITERS LABORATORIES.

H. THERMOSTATS

- A. PROVIDE 45-DEGREE RECTANGULAR TAKEOFFS FROM MAIN DUCTWORK TO RECTANGULAR BRANCHES.
- 2. SPIRAL DUCT A. PROVIDE SADDLE OR DIRECT CONNECTION OF A BRANCH DUCT INTO A LARGER DUCT. THE DIAMETER OF THE BRANCH SHALL NOT EXCEED TWO THIRDS OF THE DIAMETER OF THE MAIN. PROTRUSIONS INTO THE MAIN ARE

1. PROVIDE MANUAL LOCKING QUADRANT VOLUME CONTROL DAMPERS WITH HANDLE OPERATORS IN EACH BRANCH DUCT AND AS SHOWN ON PLANS TO FACILITATE AIR BALANCING

2. WHERE ACCESS TO BALANCING DAMPER IS RESTRICTED OR IN AREAS WITH SHEET ROCK CEILINGS, YOUNG

- REGULATORS SHALL BE USED. 3. ALL RECTANGULAR DAMPERS IN OUTSIDE AIR AND RELIEF AIR DUCTS ARE TO BE OPPOSED BLADE TYPE. ALL RECTANGU<mark>LAR DAMPERS IN RETURN AIR D</mark>UCTS TO BE PARALLEL BLADE TYPE. ALL OUTSIDE AIR DUCT DAMPERS
- MUST ALSO BE OF THE LOW LEAKAGE TYP 4. ALL MOTORIZED DAMPERS NOT FURNISHED WITH EQUIPMENT ARE TO BE HONEYWELL DAMPERS.
- M. DIFFUSERS, GRILLES AND REGISTERS 1. PROVIDE DIFFUSERS, GRILLES AND REGISTERS AS SCHEDULED. DEVICES TO BE COMPLETE WITH FRAMES AND ALL ACCESSORIES. ALL DIFFUSERS, GRILLES AND REGISTERS IN SHEET ROCK CEILINGS TO BE PROVIDED WITH R FRAMES. FINISH TO BE COORDINATED WITH INTERIOR FINISHES.
- INSTALL ALL AIR DEVICES AS LOCATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN OR THE MECHANICAL
- ILL NE<mark>W SU</mark>PPLY AND RETURN AIR DUCTWORK WITHIN 10' OF HVAC UNIT SHALL BE ACOUSTICALLY LINED. DUCT OWN ON THE DRAWING ARE INTERNAL FREE AREA SIZES. INTERNAL LINER SHALL BE 1-INCH THICK DUCT R EQUIVALENT TO JOHNS MANVILLE "PERMACOTE LINACOUSTIC" ("R VALUE" = 6) AND SHALL BE APPLIED TO THE DUCTWORK WITH FIRE RESISTIVE ADHESIVES AND CADMIUM OR COPPER PLATED MECHANICAL FASTENERS. PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR
- MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8: A. OUTDOORS: OR B. IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING: OR C. IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES: OR
- 3. LEADING EDGES OF DUCT INSULATION SHALL BE OVERLAPPED BY ADJOINING INSULATION AT LEAST 6 INCHES MINIMUM AND THEN SEALED WITH FOIL VAPOR BARRIER ADHESIVE AND DUCT MASTIC SO THAT NO FIBERGLASS.
- 4. ALL INSULATION ON EXISTING PIPING OR DUCTS THAT BECOMES WET, DAMAGED, DISTURBED OR GETS REMOVED SHALL BE REPLACED.
- 5. INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A. 6. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING
- OF NO HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM TEST: C411 OR AS REQUIRED BY LOCAL 7. EXTERIOR SUPPLY AND RETURN DUCT INSULATION:

D. IN AN UNCONDITIONED CRAWLSPACE: OR

E. IN OTHER UNCONDITIONED SPACES.

INSULATION IS VISIBLE

- A. SERVICE: RECTANGULAR, SUPPLY-AIR AND RETURN-AIR DUCTS. A.1. MATERIAL: INSULATION BOARD, 6 PSF MINIMUM AND PLAIN FACING.
- A.2. THICKNESS: 2 INCHES.
- A.3. NUMBER OF LAYERS: TWO. A.5. VAPOR RETARDER REQUIRED: YES.
- B. INORGANIC GLASS FIBERS PREFORMED AND BONDED BY THERMOSETTING RESIN. MUST COMPLY WITH ASTM C 2, TYPE 1A & 1B, KNAUF INSULATION OR APPROVED EQUIVALENT. C. INSULATION INSTALLED OUTDOORS: FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING

8. APPLY INSULATION AS FOLLOWS:

- A. APPLY TWO-LAYER INSULATION WITH JOINTS TIGHTLY BUTTED AND STAGGERED AT LEAST 3 INCHES. SECURE LAYERS WITH ADHESIVE, MECHANICAL FASTENERS OR BANDING. FASTENERS SHALL BE LOCATED A MAXIMUM OF 3" FROM EACH EDGE AND NO GREATER THAN 12" APART.
- B. ON EXPOSED APPLICATIONS, FINISH INSULATION WITH A SKIM COAT OF MINERAL-FIBER, HYDRAULIC-SETTING CEMENT TO SURFACE OF INSTALLED INSULATION. WHEN DRY, APPLY FLOOD COAT OF LAGGING ADHESIVE AND PRESS ON ONE LAYER OF GLASS CLOTH OR TAPE. OVERLAP EDGES AT LEAST 1 INCH (25 MM). APPLY FINISH COAT OF LAGGING ADHESIVE OVER GLASS CLOTH OR TAPE. THIN THE FINISH COAT TO ACHIEVE SMOOTH FINISH. OUTDOOR JACKET: POLYGUARD PRODUCTS, INC. 'ALUMAGUARD 60' OR MFM BUILDING PRODUCTS CORP. 'FLEXCLAD 400'.

TO PROVIDE A CERTIFICATION THAT CLEANING WAS ACCOMPLISHED PRIOR TO PROJECT CLOSEOUT

O. SYSTEM CLEANOUT 1. UPON COMPLETION OF INSTALLATION, CLEAN ENTIRE SYSTEM BEFORE INSTALLING AIR OUTLETS. CONTRACTOR

2. FILTERS MUST BE IN UNITS AT ANY TIME FANS ARE OPERATED. P. SYSTEM TESTING, ADJUSTING AND BALANCING 1. TESTING, ADJUSTING AND BALANCING OF ALL WORK SHALL BE COMPLETED BY AN INDEPENDENT CONTRACTOR

WHO IS CURRENTLY LICENSED BY THE ASSOCIATED AIR BALANCING COUNCIL (AABC) OR NATIONAL

ENVIRONMENTAL BALANCING BUREAU (NEBB). NO OTHER BALANCE REPORTS WILL BE REVIEWED OR ACCEPTED

ALL BALANCING WORK MUST BE COMPLETE AND DONE IN ACCORDANCE WITH THE MOST RECENT STANDARDS O

- THEIR SOCIETY. PAYMENT OF ALL COSTS FOR TESTING SHALL BE MADE BY THE HVAC CONTRACTOR.
- 2. THE CONTRACTOR SHALL INSTALL NEW FILTERS IN ALL UNITS PRIOR TO THE AIR BALANCING. THE COMPLETE AIR
- 3. BALANCE AIR AND WATER QUANTITIES TO WITHIN PLUS OR MINUS 5 PERCENT OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS, PULLEYS OR THE ADDITION OF DAMPERS REQUIRED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PROVIDED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST
- 4. THE BALANCE REPORT SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION:

BALANCE SHALL TAKE PLACE WITH OUTSIDE AIR DAMPERS IN MINIMUM POSITION.

A. AABC OR NEBB CERTIFICATION NUMBER AND SIGNATURE OF BALANCING CONTRACTOR.

TENANT'S CONSTRUCTION MANAGER FOR REVIEW AND COMMENT

- . INSTRUMENTATION LIST WITH LAST CALIBRATION DATES. MAKE AND MODEL NUMBERS OF ALL HVAC EQUIPMENT TESTED.
- D. AIR CFM AND STATIC PRESSURE READINGS (DISCHARGE AND SUCTION) AS MEASURED BY PITOT TUBE DUCT . MOTOR NAMEPLATE DATA WITH ACTUAL FIELD VOLTAGE AND AMPERAGE READINGS FOR EACH LEG.
- MOTOR AND FAN RPM, SHEAVE SIZES AND BELT SIZES AND LENGTHS. G. OUTSIDE, RETURN, MIXED AND SUPPLY AIR TEMPERATURES AT FULL COOLING.
- H. WATER BALANCE DATA INCLUDING GPM WITH INLET AND OUTLET TEMPERATURE AND PRESSURE READINGS. MAKE AND MODEL NUMBERS OF ALL AIR DISTRIBUTION EQUIPMENT FINAL BALANCED AIR VOLUMES AT ALL OUTLETS (INCLUDING RETURNS WHERE DUCTED).
- K. INDEXED PLAN WITH DIFFUSER AND RETURN LOCATIONS. 5. ALL CONTROL SEQUENCES SHALL BE TESTED AND OPERATING STATUS RECORDED IN THE REPORT.
- 6. THREE COPIES OF THE BALANCE REPORT SHALL BE SUBMITTED THROUGH THE GENERAL CONTRACTOR TO THE
- 7. THE BALANCING CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTING AND BALANCING FUNCTIONS REQUIRED FOR THE SYSTEM DESIGNED IN THESE DRAWINGS. THE BALANCING CONTRACTOR SHALL RECHECK ANY ITEMS THAT THE TENANT DEEMS NECESSARY AT NO ADDITIONAL COST TO THE TENANT.
- 8. FINAL BALANCE REPORT SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
- ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN PLACE. THE TENANT SHALL HAVE THE RIGHT TO HAVE AN INDEPENDENT HVAC CONTRACTOR INSPECT THE FINISHED HVAC INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODES. THE INSTALLING CONTRACTOR WILL BE RESPONSIBLE TO BRING ALL ITEMS REPORTED BY THE INDEPENDENT HVAC CONTRACTOR UP TO PLANS AND SPECIFICATIONS REQUIREMENTS AT NO ADDITIONAL COST TO THE TENANT
- R. INDOOR AIR QUALITY 1. NO ANALYSIS HAS BEEN MADE WITH REGARD TO SOURCES OR POTENTIAL SOURCES OF INDOOR OR OUTDOOF
- AIR CONTAMINANTS OR LEVELS OF CONTAMINATION 2 IT IS THE RESPONSIBILITY OF THE GENERAL AND MECHANICAL CONTRACTOR TO INFORM THE TENANT REPRESENTATIVE. LANDLORD AND TENANT'S ARCHITECT IF ANY SOURCE OR POTENTIAL SOURCE OF INDOOR AIR
- 3. PRIOR TO ENCLOSING SPACES SUCH AS PLUMBING CHASES, AIR SHAFTS AND RETURN AIR PLENUMS CLEAN ALI AREAS THOROUGHLY. THE CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RE-CIRCULATING OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF CONTAMINATION FRO TRAPS, SOIL STACKS, DOWNSPOUTS, VENTS, EXHAUST DISCHARGES AND OTHER SOURCES WILL BE ENCLOSE
- SO THAT NO CONTAMINATED AIR WILL BE RE-CIRCULATED. 4. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES SHUT OFF THE HVAC SYSTEM, BLOCK OFF ALL AIR GRILLS, DIFFUSERS AND OTHER OPENINGS OUTSIDE THE IMMEDIATE CONSTRUCTION AREA. OPENINGS TO ADJACENT TENANT SPACES SHALL BE COVERED WITH FILTER MEDIA TO PREVENT DUST AND OTHER AIRBORNE
- CONTAMINANTS FROM PASSING TO ADJOINING SPACES. 5. CONTRACTOR TO INSTALL TEMPORARY EXHAUST SYSTEM TO VENTILATE CONSTRUCTION SITE AND KEEP SITE UNDER SLIGHT NEGATIVE PRESSURE DURING ALL HOURS OF CONSTRUCTION, EVEN IF AFTER NORMAL BUSINESS
- 6. CONTRACTOR TO INSTALL TEMPORARY BARRIERS TO PROTECT ADJACENT SPACES FROM DUST, PARTICULATES, VAPORS AND NOISE. WHERE TEMPORARY BARRIERS ARE INSTALLED ALWAYS MAINTAIN FIRE EXITS AND

THERMOSTATIC CONTROLS:

Q. FINAL HVAC INSPECTIONS

CONTAMINATION IS IDENTIFIED

- A. THERMOSTATIC CONTROLS FOR EACH ZONE. THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH SPACE-CONDITIONING ZONE OR DWELLING UNIT SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE AND THAT MEETS THE APPLICABLE REQUIREMENTS OF SECTION 120.2(B). AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE THERMOSTATIC CONTROLS IF IT COMPLIES WITH ALL APPLICABLE REQUIREMENTS FOR EACH THERMOSTATIC CONTROL. EXCEPTION TO SECTION 120.2(A): AN INDEPENDENT PERIMETER HEATING OR COOLING SYSTEM MAY SERVE MORE
- THAN ONE ZONE WITHOUT INDIVIDUAL THERMOSTATIC CONTROLS IF: ALL ZONES ARE ALSO SERVED BY AN INTERIOR COOLING SYSTEM; AND HE PERIMETER SYSTEM IS DESIGNED SOLELY TO OFFSET ENVELOPE HEAT LOSSES OR GAINS; AND HE PERIMETER SYSTEM HAS AT LEAST ONE THERMOSTATIC CONTROL FOR EACH BUILDING ORIENTATION OF 50FEET OR MORE; AND THE PERIMETER SYSTEM IS CONTROLLED BY AT LEAST ONE THERMOSTAT LOCATED IN ONE OF THE ZONES
- JT-OFF AND RESET CONTROLS FOR SPACE-CONDITIONING SYSTEMS. EACH SPACE-CONDITIONING SYSTEM ALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH THE FOLLOWING: THE CONTROL SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF A. AN AUTOMATIC TIME SWITCH CONTROL DEVICE COMPLYING WITH SECTION 110.9(C), WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM FOR UP TO 4 HOURS; OR
- B. AN OCCUPANCY SENSOR: OR C. 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED EXCEPTION TO SECTION 120.2(E)1: MECHANICAL SYSTEMS SERVING RETAIL STORES AND ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, CHURCHES AND THEATERS EQUIPPED WITH 7-DAY
- PROGRAMMABI F TIMERS THE CONTROL SHALL AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO A A SETBACK HEATING THERMOSTAT SET POINT IF THE SYSTEM PROVIDES MECHANICAL HEATING (AND EXCEPTION TO SECTION 120.2(E)2A: THERMOSTAT SETBACK CONTROLS ARE NOT REQUIRED IN NONRESIDENTIAL BUILDINGS IN AREAS WHERE THE WINTER MEDIAN OF EXTREMES OUTDOOR AIR TEMPERATURE DETERMINED IN ACCORDANCE WITH SECTION 140.4(B)3 IS GREATER THAN 32°F B. A SETUP COOLING THERMOSTAT SET POINT IF THE SYSTEM PROVIDES MECHANICAL COOLING. EXCEPTION TO SECTION 120.2(E)2B: THERMOSTAT SETUP CONTROLS ARE NOT REQUIRED IN NON-RESIDENTIAL
- TEMPERATURE DETERMINED IN ACCORDANCE WITH SECTION 140.4(B)3 IS LESS THAN 100°F. C. DAMPERS FOR AIR SUPPLY AND EXHAUST EQUIPMENT. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN. EXCEPTION 1 TO SECTION 120.2(F): EQUIPMENT THAT SERVES AN AREA THAT MUST OPERATE CONTINUOUSLY. EXCEPTION 2 TO SECTION 120.2(F): GRAVITY AND OTHER NON-ELECTRICAL EQUIPMENT THAT HAS READILY ACCESSIBLE MANUAL DAMPER CONTROLS.

EXCEPTION 3 TO SECTION 120.2(F): AT COMBUSTION AIR INTAKES AND SHAFT VENTS. EXCEPTION 4 TO SECTION 120.2(F): WHERE PROHIBITED BY OTHER PROVISIONS OF LAW.

THE CALIFORNIA MECHANICAL CODE 2022:

AS REQUIRED BY CENC 120.1(C))

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE CALIFORNIA BUILDING CODE 2022, AND ALL

AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE. 1. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.

120.1-REQUIREMENTS FOR VENTILATION AND INDOOR AIR QUALITY.

2. VENTILATION FOR ALL AREA SHALL COMPLY WITH CALIFORNIA ENERGY CODE 2022, SECTION

BUILDINGS IN AREAS WHERE THE SUMMER DESIGN DRY BULB 0.5 PERCENT

- 3. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- 4. 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
- SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS WITH THE REQUIREMENTS OF SECTION 609 OF CALIFORNIA MECHANICAL CODE 2022 TO CLOSE DAMPERS AND
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION
- 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.

8. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF

- A. VENTILATION SYSTEM BALANCING CALIFORNIA MECHANICAL CODE 2022 402 B. SMOKE CONTROL SYSTEMS - CALIFORNIA MECHANICAL CODE 2022 - 609
- 9. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:

A. STANDARDS OF HEATING - CALIFORNIA BUILDING CODE 2022 - 1203

- B. DUCT CONSTRUCTION AND INSTALLATION- CALIFORNIA MECHANICAL CODE 2022 603 C. AIR INTAKES, EXHAUSTS AND RELIEF - CALIFORNIA MECHANICAL CODE 2022 -502. D. AIR FILTERS - CALIFORNIA MECHANICAL CODE 2022 - 401 (FILTERS SHALL BE A MINIMUM OF MERV 13
- CALIFORNIA MECHANICAL CODE 2022 609 10. ALL MECHANICAL EQUIPMENT SHALL BE TESTED BY A CALIFORNIA CERTIFIED ACCEPTANCE TEST TECHNICIAN.

E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS -

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS

382 NE 191ST STREET SUITE 49674,

MIAMI, FL 33179

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Professional seal:

CONTRACTOR'S NOTES:

WRITTEN DIMENSIONS HOLD PREFERENCE

OVER SCALED DIMENSIONS. DO NOT SCALE

THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR

CONFLICTS BETWEEN THE PLANS AND THE

EXISTING CONDITIONS PRIOR TO THE

COMMENCEMENT OF WORK.

03/24/25 | PERMIT SET

DATE REVISION

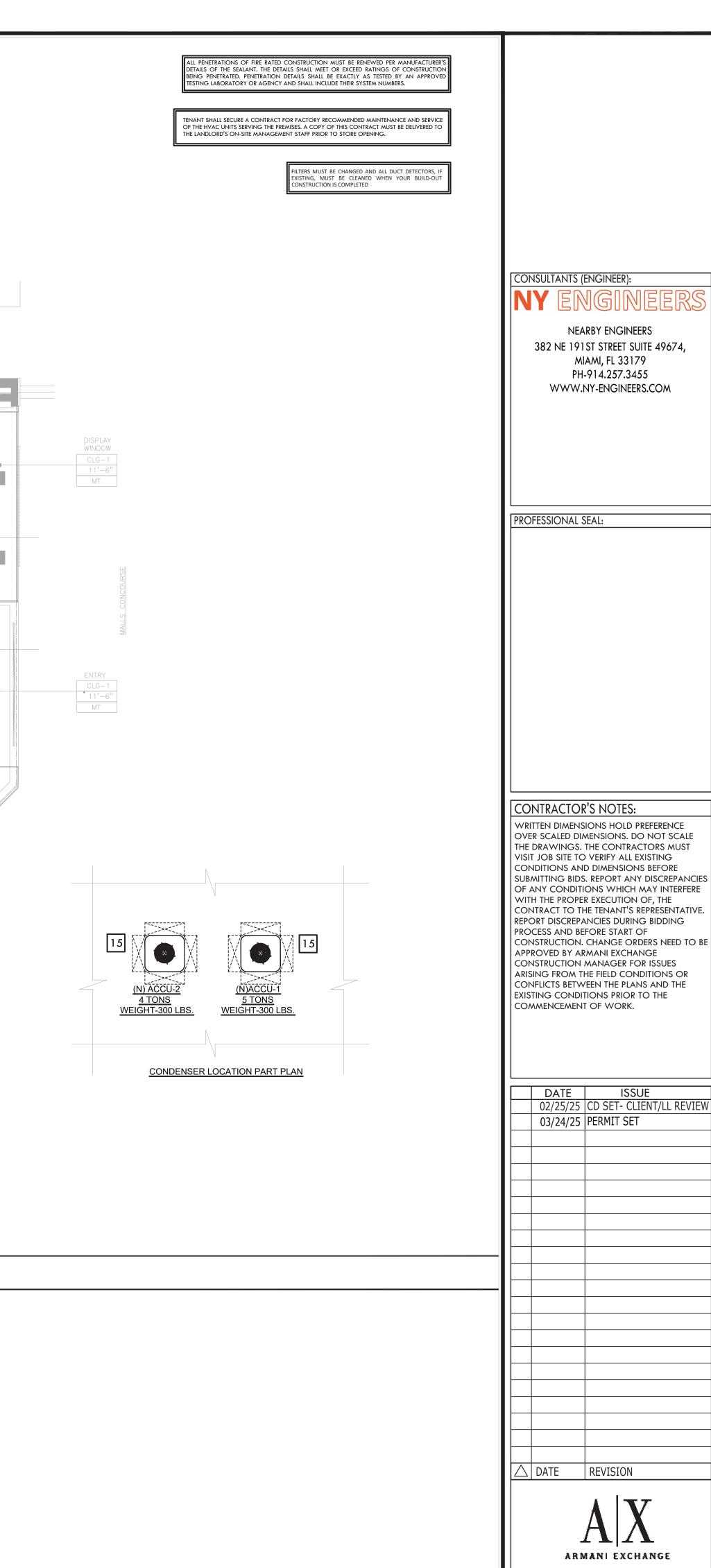
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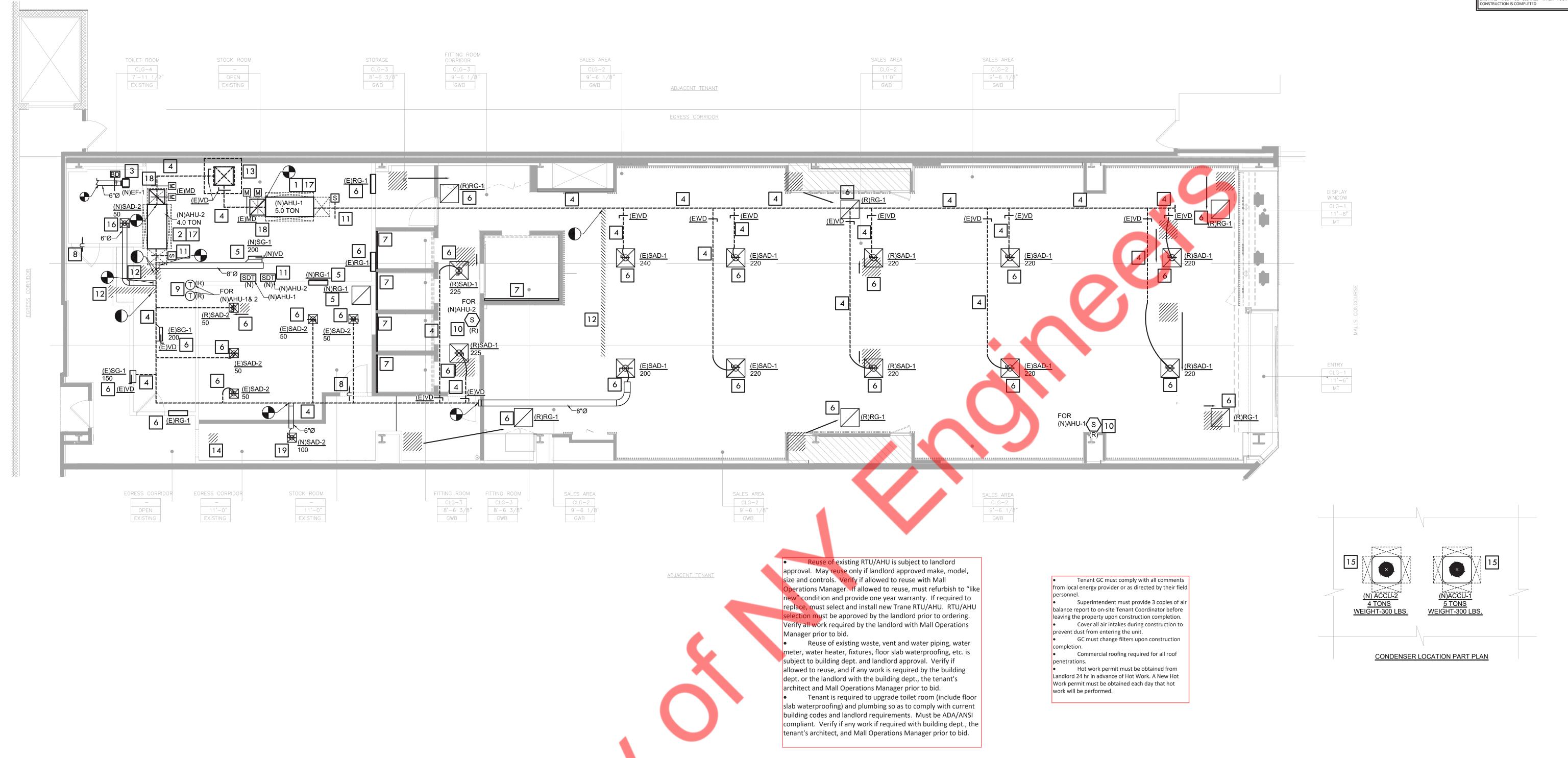
PROJECT INFORMATION: DATE: 01/15/2025

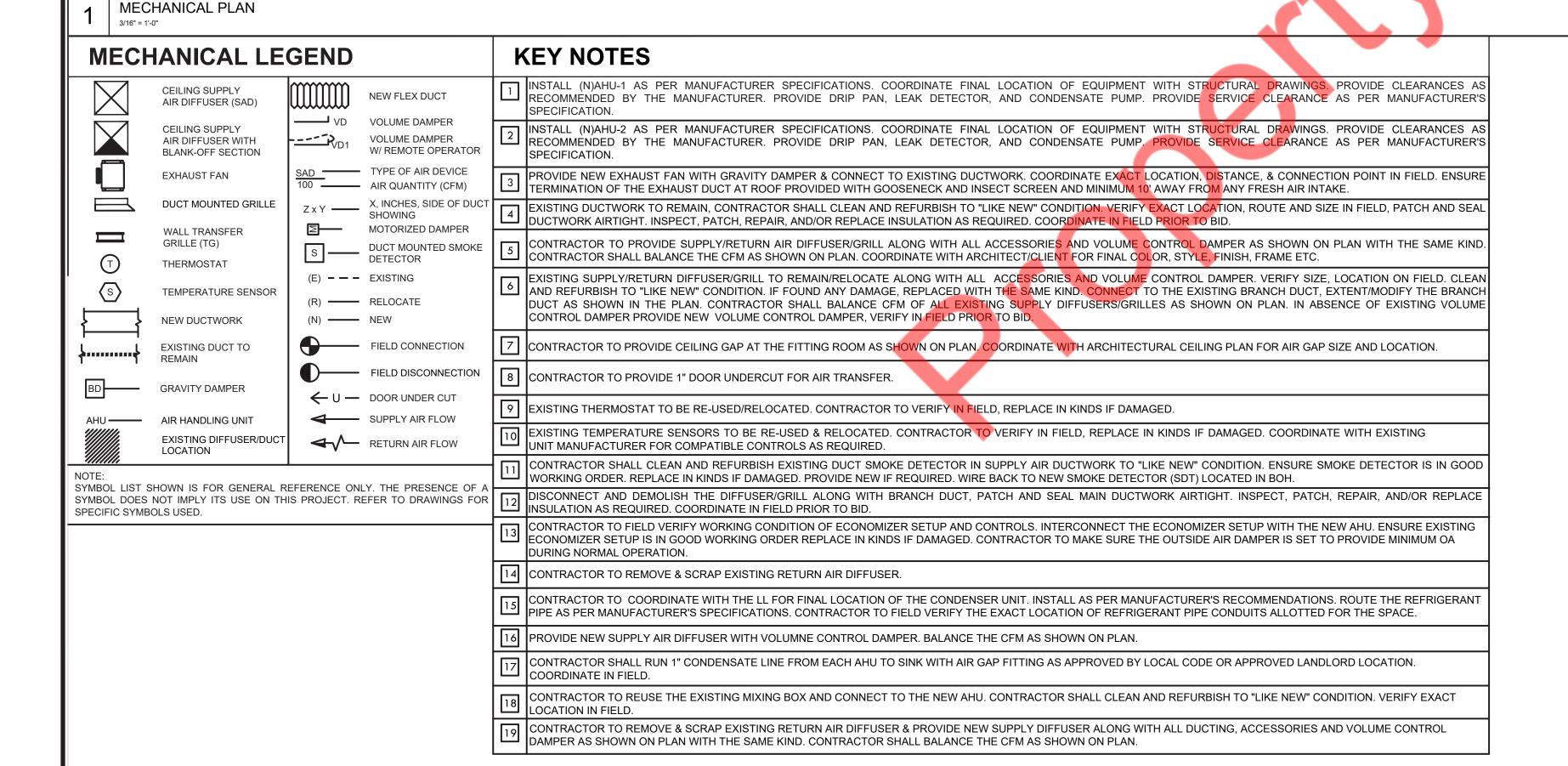
PROJECT NUMBER: 12402-25

AREA: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE







NEW SMOKE DETECTOR TEST STATION

REMOTE TEST STATION WITH AUDIBLE AND VISUAL ALARM FOR DUCT SMOKE DETECTOR AS REQUIRED BY CODE OR LOCAL JURISDICTION MANUFACTURED BY SIMPLEX MODEL 4098-9842. MOUNT AT A MIN. OF 48" AFF.

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025

PROJECT NUMBER: 12402-25

AREA: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE

MECHANICAL PLAN

SHEET NUMBER:

M2.0

									INDOOR HEAT F	PUMP UNIT SCHEDULE										BASIS OF D	ESIGN:TRANE (OR EQUIVALENT)
UNIT TAG	LOCATIO	ON ODU	AREA SERVED	ТҮРЕ	CAP. (TON)	COOLING MBH	HEATING MBH @47 Deg.F	HEATING MBH @17 Deg.F	TOTAL CFM (MAX.) MAX. ESP. (IN. WG)	OUTSIDE AIR(CFM)	MAX. SOUND PRESS.(DBA)	ELECTRIC	AL DATA (AH	U)	DIMENTIONS (HXWXD)		PIPE SIZ	ĽE	WEIGHT (LBS.)	MODEL NO.
	L SEE PLAN (N 2 SEE PLAN (N AIR CFM BASED OF						@ 47 DCB.II	@17 Deg.:				111233.(337.)	PH/VOLT/HZ	MCA	МОСР	UNIT	LIQ.	SUCTION	DRAIN (ID)		
(N) AHU-1	SEE PLAI	N (N) ACCU-1	L SEE PLAN	AIR HANDLER	5.0	55.7	52	34.8	2000	1	460	44	1/208/60	7	15	22X25X62	3/8"	7/8"	1"	230	5TAM5D06AC41 (OR EQUIVALENT)
(N) AHU-2	SEE PLAI	N (N) ACCU-2	SEE PLAN	AIR HANDLER	4.0	44.9	44	28.4	1600	1	370	44	1/208/60	5	15	22X25X57	3/8"	7/8"	1"	230	5TAM5D05AC31 (OR EQUIVALENT)
NOTES:																					
1) SUPPLY A	IR CFM BA	ASED ON HIGH	STATIC.																		
2) REFRIGE	RANT R-45	54B OR R-32 SH	ALL BE PROVIDE	D.																	
3) PROVIDE	MOUNTIN	ING BRACKETS A	AND ALL ASSOCI	ATED ACCESSO	RIES.																
4) ALL REFR	IGERANT I	PIPING TO BE S	IZED PER MANU	JFACTURERS RE	COMMENDA	TIONS.															
5) PROVIDE	MERV 13	FILTER ON ALL	RETURNS TO UN	NIT.																	
6) INDOOR	UNIT ACCI	CESS PANEL FIEL	D-PROVIDED.																		

						OUTDO	OR HEAT PUMP UNIT SC	CHEDULE									BASIS O	F DESIGN: TRANE (OR EQUIVALENT)
	INDOORLINITS		COOLING	HEATING	HEATING		UNIT DIMENSIONS		PIPING DIMENSION		ELECTRICAL			SOUND LEVEL				
UNIT TAG LOCATION	SERVED	CAP.TR	МВН	MBH @47 Deg.F	MBH @17 Deg.F	ТҮРЕ	IN.(HXWXD)	WEIGHT (LBS)	LIQUID-HI PRESSURE	GAS LOW- PRESSURE	(V/Hz/Ph)	MCA	МОР	(DBA)	EER2	SEER2	HSPF2	MODULE NO.
(N) ACCU-1 AS SHOWN	(N) AHU-1	5	55.7	52	34.8	HEAT PUMP	46X38X35	300	3/8"	7/8"	460/60/3	11	15	74	11.7	14.3	7.5	5TWA4060A4 (OR EQUIVALENT)
(N) ACCU-2 AS SHOWN	(N) AHU-2	4	44.9	44	28.4	HEAT PUMP	46X38X35	300	3/8"	7/8"	460/60/3	9.4	15	74	11.7	15	7.7	5TWA4048A4 (OR EQUIVALENT)
NOTES:		•	•	•								•	•	•	•			

1) UNIT SHALL HAVE TEN YEAR EXTENDED WARRANTY FOR COMPRESSORS/PARTS.

7) PROVIDE SPRING MOUNTED VIBRATION ISOLATORS FOR UNITS. 8) PROVIDE DRIP PAN , LEAK DETECTOR & CONDENSATE PUMP.

2) PROVIDE COMPRESSOR CYCLE PROTECTOR.

3) PROVIDE CONDENSING UNIT MOUNTING PAD. 4) CONTRACTOR SHALL PROVIDE A LONG LINE SET FOR REFRIGERANT PIPING IN THE EVENT THAT TOTAL REFRIGERANT LENGTH EXCEED THE MANUFACTURER'S STANDARD RECOMMENDED LENGTH.

5) PROVIDE COMPRESSOR THERMAL PROTECTION, COMPRESSOR OVERCURRENT DETECTION AND FAN MOTOR OVERHEATING/VOLTAGE PROTECTION.

6) REFRIGERANT R-454B OR R-32 SHALL BE PROVIDED.

						FAN S	CHEDULE						
TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	FAN	PERFORIV	ANCE					WEIGHT	CONTROL
IAG	IVIANOFACTORER	IVIODEL	LOCATION	AREA SERVED	CFM	ESP	FAN RPM	FLA	VOLTS	PHASE	HZ	LBS	CONTROL
(N) EF-1	GREENHECK	SP-A390-VG	SEE PLAN	SEE PLAN	70	0.5	1299	1.5	115	1	60	25	WALL SWITCH
NOTES & A	ACCESSORIES:												

1. PROVIDE FAN WITH GRILLE, VIBRATION ISOLATORS, DISCONNECT SWITCH, INTEGRAL BACKDRAFT DAMPER, & ALL ACCESSORIES REQUIRED BY VENDOR FOR PROPER OPERATION.

2. INTERLOCK WITH LIGHT SWITCH/OCCUPANCY SENSOR.

	BUIL	DING AIR BAL	ANCE	
UNIT TAG	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AII
(N) AHU-1	2000	460	1540	1
(N) AHU-2	1600	370	1230	-
(N) EF-1	1	-	-	70 CFM
TOTAL:	3600 CFM	830 CFM	2770 CFM	70 CFM
BUILDING F	PRESSURE:		760 CFM	POSITIVE
	(N) AHU-1 (N) AHU-2 (N) EF-1 TOTAL:	UNIT TAG SUPPLY AIR (N) AHU-1 2000 (N) AHU-2 1600 (N) EF-1 -	UNIT TAG SUPPLY AIR OUTSIDE AIR (N) AHU-1 2000 460 (N) AHU-2 1600 370 (N) EF-1 - - TOTAL: 3600 CFM 830 CFM	(N) AHU-1 2000 460 1540 (N) AHU-2 1600 370 1230 (N) EF-1 - - - TOTAL: 3600 CFM 830 CFM 2770 CFM

ROOM NAME	AREA (SQ.FT.)	AREA OUTDOOR AIR RATE	REQUIRED OA	PROVIDED OA (CFM)	EXHAUST AIRFLOW RATE	TOTAL EXHAUST
0.1.50.4.554	2406	(CFM/SQ.FT)		505	(CFM/SQ.FT)	(CFM)
SALES AREA	2406	0.25	602	605	0	0
FITTING AREA	172	0.15	26	30	0	0
FITTING ROOM-1	45	0.15	7	10	0	0
FITTING ROOM-2	25	0.15	4	5	0	0
FITTING ROOM-3	25	0.15	4	5	0	0
FITTING ROOM-4	25	0.15	4	5	0	0
FITTING ROOM-5	25	0.15	4	5	0	0
FITTING ROOM-6	59	0.15	9	10	0	0
STOCK AREA	426	0.15	64	65	0	0
STORAGE	260	0.15	39	40	0	0
CORRIDOR-1	162	0.15	24	25	0	0
CORRIDOR-1	166	0.15	25	25	0	0
REST ROOM	64	0	0	0	70	70
TOTAL	3860	_	810	830	_	70

			AIR TERI	MINAL SCHED	ULE			
TAG	MANUFACTURER	MODEL	TYPE	CFM RANGE	NECK SIZE	NOMINAL FACE SIZE	REMARKS	NOTES
(N) SD-2	TITUS	TMS	SUPPLY DIFFUSER	0-200	6" DIA	12"X12"	CEILING MOUNT	1-4
NOTES:				•				
1. BORDER	TYPE TO BE COMPA	ATIBLE WITH CEILING	G/WALL TYPE.					
2. COLOR A	AND FINISH TO BE R	REVIEWED AND APP	ROVED BY THE ARCHIT	ECT.				
3. PROVID	E OPPOSED BLADE I	DAMPER AS ACCESS	ARY FOR ALL AIR TERM	IINAL FOR AIF	BALANCIN	G OR ELSE PROVIDE DA	AMPER IN DUCTS.WHE	RE
LOCATED I	N INACCESSIBLE AF	REAS, PROVIDE CABI	LE OPERATED DAMPER	LOCATED IN	THE BRANCI	H, OPERABLE THROUG	H THE FACE OF THE DIF	FUSER
(KEY OPER	ATED).							

4. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS 382 NE 191ST STREET SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES: WRITTEN DIMENSIONS HOLD PREFERENCE

OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES
ARISING FROM THE FIELD CONDITIONS OR
CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

DATE ISSUE
02/25/25 CD SET- CLIENT/LL REVIEW 03/24/25 PERMIT SET

∑ DATE REVISION

ARMANI EXCHANGE

LOCATION:

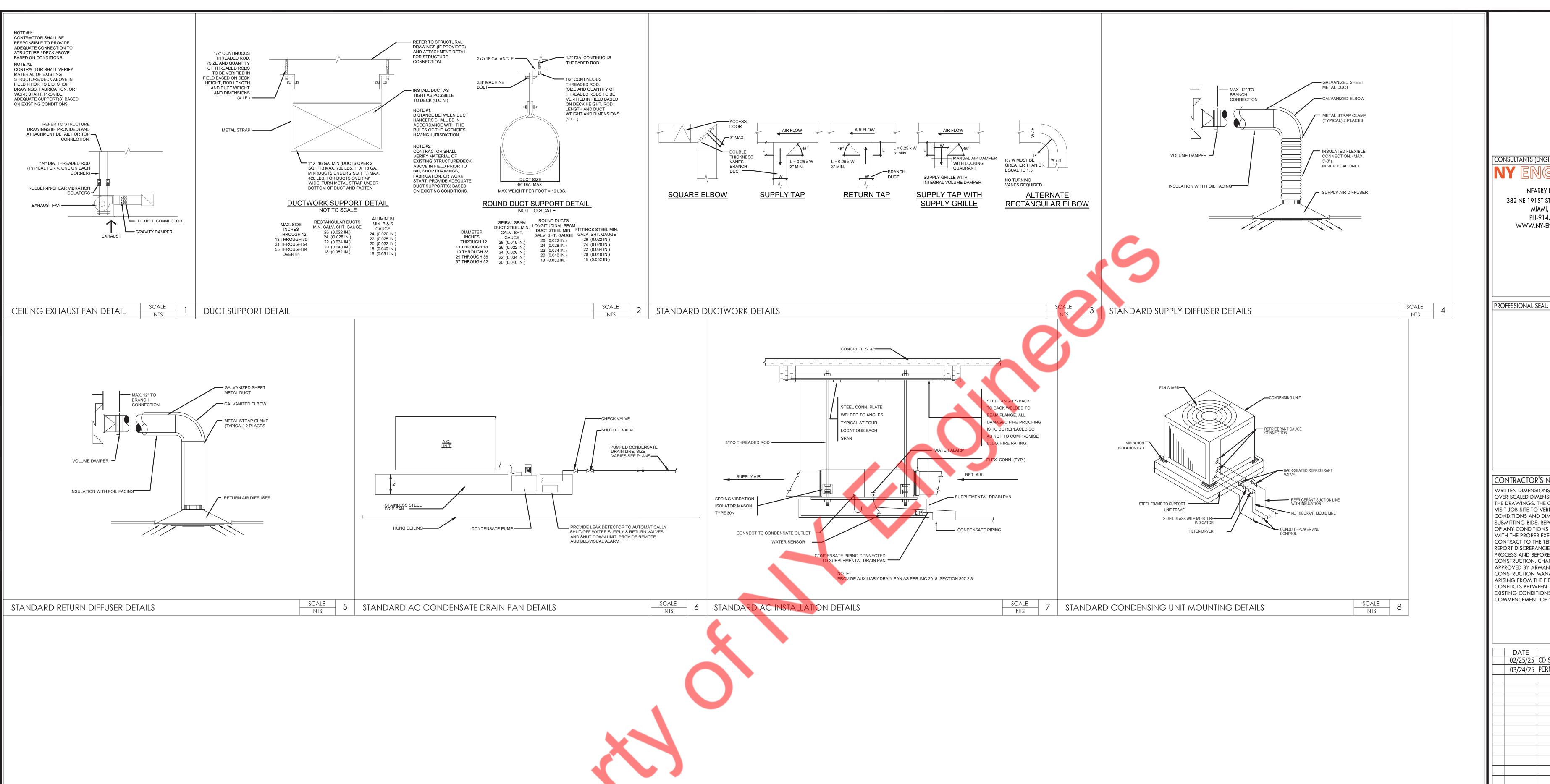
PROJECT INFORMATION:

<u>DATE</u>: 01/15/2025 PROJECT NUMBER: 12402-25

<u>AREA</u>: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE

MECHANICAL SCHEDULES



CONSULTANTS (ENGINEER):

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	DATE	ISSUE
	02/25/25	CD SET- CLIENT/LL RE
	03/24/25	PERMIT SET

△ DATE REVISION

ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

<u>DATE</u>: 01/15/2025 PROJECT NUMBER: 12402-25

AREA: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE

MECHANICAL **DETAILS**

SHEET NUMBER:

M4.0

ELECTRICAL GENERAL NOTES

- A. GENERAL REQUIREMENTS
- 1. GENERAL CONDITIONS: ALL CONDITIONS AND REQUIREMENTS UNDER THE "GENERAL CONDITIONS", THE "SUPPLEMENTARY GENERAL CONDITIONS", THE "SPECIAL CONDITIONS" SHALL BECOME A PART OF THIS SPECIFICATION, AND BIDDERS WILL EXAMINE ALL DRAWINGS AND READ ALL PARTS OF THE SPECIFICATIONS TO AVOID OMISSIONS, DUPLICATIONS AND TO INSURE COMPLETE EXECUTION OF ALL WORK FOR FLECTRICAL.
- 2. GENERAL: THE WORK UNDER THIS SECTION SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT AND INCIDENTAL COSTS NECESSARY TO FURNISH AND INSTALL ALL ELECTRICAL WORK, EQUIPMENT, LAMPS, ETC. INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, OR BOTH.
- A. THE ELECTRICAL SUBCONTRACTORS QUOTING ON THEIR SPECIFIC SCOPE OF WORK / SERVICES TO CONTACT THE LOCAL BUILDING DEPARTMENT / AGENCY TO DISCUSS CODE ISSUES / IDIOSYNCRASIES REGARDING THEIR SERVICES AND THE QUOTE ASSOCIATED WITH THE SERVICES TO THE GENERAL CONTRACTOR FOR THIS PROJECT. THIS CONTRACTOR TO BE FAMILIAR WITH THE SITE WHERE SUCH SERVICES / WORK WILL BE PERFORMED, THIS SPECIFIC USE AND THE IDIOSYNCRASIES ASSOCIATED WITH THE LIFE, SAFETY AND HEALTH ASSOCIATED WITH THIS WORK AND TO INDICATE ON THE QUOTE ANY ITEMS REQUIRED THAT ARE NOT NECESSARILY SHOWN ON THE DRAWINGS / SPECIFICATIONS.
- 3. THE TENANT'S GENERAL CONTRACTOR AND/OR HIS ELECTRICAL SUBCONTRACTOR IS TO VERIFY ALL EQUIPMENT SPECIFICATIONS AND REQUIREMENTS WITH THE TENANT OR THE TENANT'S CONSTRUCTION REPRESENTATIVE PRIOR TO START OF CONSTRUCTION. THIS CONTRACTOR TO VERIFY AMPERAGE AND VOLTAGE SPECIFICATIONS AND REQUIREMENTS (SERVICE AND PANEL SPECIFICATION) WITH THE ELECTRICAL SUBCONTRACTOR IN COORDINATION WITH EQUIPMENT SPECIFICATIONS FOR EQUIPMENT SUPPLIED BY THE TENANT, THE CONTRACTORS OR OTHER SOURCES (AS SPECIFIED BY THE ARCHITECT) AS A DOUBLE CHECK TO ASCERTAIN PROPER INSTALLATION OF EQUIPMENT AT THE CORRECT VOLTAGE/ AMPERAGE.
- A. THE ELECTRICAL SUBCONTRACTOR IS REQUIRED TO VISIT THE SITE DURING BIDDING AND VERIFY LOCATION(S) OF WHERE THE ELECTRICAL EQUIPMENT/PIPING IS INDICATED TO BE PLACED, SIZE OF ANY EXISTING SERVICE AND WHAT IS INDICATED TO BE INSTALLED OR "EXISTING TO REMAIN" AND IF NEW SERVICE IS INDICATED, TO VERIFY IF DIFFERENT THAN THE DRAWINGS, SIZE OF FEEDER PIPES, REQUIRED DISTANCES AND POSSIBLE ADDITIONAL WORK REQUIRED AT THE ELECTRICAL DISTRIBUTIONS ROOM. ANY DISCREPANCIES BETWEEN DESIGNED AND ACTUAL TO BE TOLD TO THE GENERAL CONTRACTOR AND BE INDICATED ON THE
- 4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE BUILDING AND ELECTRICAL INSPECTORS FOR ALL CONCEALED WORK PRIOR TO CLOSING UP WALLS, FLOORS AND
- 5. TENANT'S GENERAL CONTRACTOR SHALL BRING IN ALL ADDITIONAL SERVICES, ADEQUATE FOR TENANT'S NEEDS AS REQUIRED, INCLUDING BUT NOT LIMITED TO ELECTRIC, SPRINKLER, SOIL (WASTE), DOMESTIC WATER LINES, OUTSIDE TOILET EXHAUST AIR, FIRE ALARM, TELEPHONE AND
- 6. SCOPE: FURNISH LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC., REQUIRED FOR A COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS AND WORK, IN ACCORDANCE WITH LOCAL CODES AND GOVERNING BODIES HAVING JURISDICTION, AS SHOWN ON DRAWINGS, AND AS SPECIFIED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- A. NEW SERVICE -- TENANT'S CONTRACTOR IS TO REUSE EXISTING ELECTRICAL SERVICE OR CONDUIT ONLY; FURNISH AND INSTALL NEW ELECTRICAL SERVICE WIRE AND EXTEND BOTH CONDUIT AND WIRE TO POINT OF ALL NEW PANELS, TRANSFORMERS, WIREWAYS, TROUGHS, TIME CLOCKS, ETC. SINCE SPACE MAY OR MAY NOT BE MEASURED OR REVIEWED BY TENANT'S ARCHITECT, THE ACTUAL LOCATION OF SERVICE AND PANEL LOCATIONS MAY NOT BE KNOWN. THE ELECTRICAL SUBCONTRACTOR, IN REVIEW OF THE PREMISES, IS REQUIRED TO INSTALL PANELS IN LOCATION AS NOTED ON DRAWINGS AND MUST INCLUDE IN HIS BID ANY EXTENSION OF CONDUIT AND WIRE, NEW DISCONNECTS, RELOCATION OR INSTALLATION OF PANELS, TROUGHS, WIREWAYS, ETC. TO MAKE THE SYSTEM WHOLE AND TO UPGRADE AS NECESSARY TO MEET CODE REQUIREMENTS. INSTALL NEW SERVICE INCLUDING CONDUIT AND WIRE FROM DEMISED PREMISES TO LANDLORD'S ELECTRICAL ROOM IF THE EXISTING SERVICE NEEDS TO BE UPGRADED FROM WHAT TENANT WAS ORIGINALLY TOLD SERVICE WOULD BE, OR THE SERVICE NEEDS TO BE MOVED BECAUSE IT'S EITHER SHOWN TO BE MOVED OR IS EXISTING NOW IN THE PATH OF FUTURE PARTITION OR OTHER SERVICES.
- B. EXISTING SERVICE TENANT'S CONTRACTOR IS TO REUSE EXISTING ELECTRICAL SERVICE WIRE. CONDUIT AND ELECTRICAL EQUIPMENT; CUT AND EXTEND TO POINT OF NEW ELECTRICAL EQUIPMENT. ALL EXISTING ELECTRICAL EQUIPMENT WHICH IS REUSED TO BE BROUGHT UP TO "LIKE NEW" CONDITION AND THE LATEST N.E.C. STANDARD. SINCE SPACE MAY OR MAY NOT BE MEASURED OR REVIEWED BY TENANT'S ARCHITECT. THE ACTUAL LOCATION OF SERVICE AND PANEL LOCATIONS MAY NOT BE KNOWN. THE ELECTRICAL SUBCONTRACTOR, IN REVIEW OF THE PREMISES IS REQUIRED TO INSTALL PANELS IN LOCATION AS NOTED ON DRAWINGS AND MUST INCLUDE IN HIS BID ANY EXTENSION OF CONDUIT AND WIRE, NEW DISCONNECTS, RELOCATION OR INSTALLATION OF PANELS, TROUGHS, WIREWAYS, ETC. TO MAKE SYSTEM WHOLE AND TO UPGRADE AS NECESSARY TO MEET CODE REQUIREMENTS. INSTALL NEW SERVICE INCLUDING CONDUIT AND WIRE FROM DEMISED PREMISES TO LANDLORD'S ELECTRICAL ROOM IF THE EXISTING SERVICE NEEDS TO BE UPGRADED FROM WHAT TENANT WAS ORIGINALLY TOLD SERVICE WOULD BE, OR THE SERVICE NEEDS TO BE MOVED BECAUSE IT'S EITHER SHOWN TO BE MOVED OR IS EXISTING NOW IN THE PATH OF FUTURE PARTITION OR OTHER SERVICES. IF SERVICE IS ADEQUATE BUT MUST BE RELOCATED, CUT AND EXTEND EXISTING WIRE AND CONDUIT TO POINT OF ALL NEW PANELS, DISCONNECTS, TROUGHS, TIME CLOCKS, ETC.
- C. POWER DISTRIBUTION SYSTEMS AND TRANSFORMER.
- D. LIGHTING SYSTEMS (ALSO SEE REFLECTED CEILING PLAN).
- E. ELECTRICAL ENERGIZING -- MISCELLANEOUS FAN AND MOTOR
- F. MOTOR POWER WIRING SYSTEM.
- G. TELEPHONE EMPTY CONDUIT SYSTEM (INCLUDING TERMINAL BOXES AND OUTLETS).
- H. CONVENIENCE RECEPTACLE SYSTEM, DOOR ALARM/ ENTRY SYSTEM/ SECURITY.
- I. SOUND SYSTEM, INTERCOM SYSTEM FURNISHED AND INSTALLED BY THIS CONTRACTOR IF REQUIRED BY CLIENT; EMERGENCY LIGHT SYSTEM AND BATTERIES FURNISHED BY CLIENT AND INSTALLED BY THIS CONTRACTOR.
- J. GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE AND ALL MALL REQUIREMENTS.
- K. NIGHT LIGHT CIRCUITING THROUGHOUT PREMISES AS PER CODE WHETHER SHOWN OR NOT ON DRAWINGS.
- L. LOCK OUTS FOR EXIT / EMERGENCY LIGHTING, ALARM SYSTEMS, CASH REGISTERS, GRILLE AT ENTRY (IF APPLICABLE) AS REQUIRED. SEE PANEL SCHEDULE FOR CIRCUITS.
- M. SMOKE DETECTORS FURNISHED AND INSTALLED WITHIN STORE TO INCLUDE LOCATIONS AND INTERNAL / EXTERNAL WIRING IF REQUIRED BY LANDLORD OR FIRE MARSHAL.
- N. ELECTRICAL SUBCONTRACTOR, WHEN BIDDING THIS WORK, TO CHECK TO MAKE SURE THAT SERVICE WIRE, CONDUIT, DISCONNECTS, ETC., ARE ADEQUATE FOR TENANT'S NEEDS. IF ADDITIONAL SERVICE IS REQUIRED, INCLUDE NEW CONDUIT AND SERVICE FEED OR DISCONNECTS METER BASE AND METER (JE APPLICABLE). FTC. TO BRING SUCH SERVICE UP TO
- ADDITIONAL SERVICE IS REQUIRED, INCLUDE NEW CONDUIT AND SERVICE FEED OR DISCONNECTS, METER BASE AND METER (IF APPLICABLE), ETC., TO BRING SUCH SERVICE UP TO TENANT'S NEEDS.

 O. FURNISH AND INSTALL ALL CONDUIT AND WIRING, DISCONNECTS, BREAKERS, BALANCING OF
- LOADS, ETC. FOR HOOKUP OF ALL H.V.A.C. EQUIPMENT, UNIT(S), OR INLINE HEATERS WHETHER SUCH HEATERS OR EQUIPMENT / UNITS ARE SHOWN OR NOT.

 P. FURNISH AND INSTALL A TWENTY FOUR (24) HOUR, SEVEN (7) DAY TIME CLOCK INCLUDING ALL
- INTEGRAL WIRING AND LOAD BALANCING (PANEL) FOR CONTROLLING THE STOREFRONT SIGN AND SHOW WINDOW LIGHTING, WHETHER SUCH WORK IS OR IS NOT SHOWN ON PLANS / OR SPECIFICATIONS.

 Q. ALL ELECTRICAL ROUGH-IN TO BE NEW AND THE ORIGINAL SERVICES TO THE DEMISED PREMISES TO BE REUSED; CUT AND EXTEND TO POINT OF ALL NEW ELECTRICAL EQUIPMENT (IF
- Q. ALL ELECTRICAL ROUGH-IN TO BE NEW AND THE ORIGINAL SERVICES TO THE DEMISED PREMISES TO BE REUSED; CUT AND EXTEND TO POINT OF ALL NEW ELECTRICAL EQUIPMENT (IF ANY EQUIPMENT IS REUSED, UPGRADE SAME TO "LIKE NEW" CONDITION AND THE LATEST N.E.C. STANDARDS) BY THE TENANT'S CONTRACTOR UNLESS NOTED OTHERWISE ON DRAWINGS. TENANT'S GENERAL CONTRACTOR TO FIELD VERIFY THAT ALL UTILITY LINES ARE AT OR ADJACENT TO TENANT'S SPACE AS NOTED AND AT THE SIZE SPECIFIED. IF THE UTILITIES ARE NOT IN LOCATIONS AS NOTED ON THE DRAWINGS OR OF A SIZE LARGER OR SMALLER THAN NOTED, THIS CONTRACTOR IS TO NOTIFY THE TENANT'S ARCHITECT IMMEDIATELY.
- R. THE TENANT'S ELECTRICAL SUBCONTRACTOR IS TO PROVIDE A NEW CIRCUIT DIRECTORY(IES) WITH PROPER PHASING AND BALANCING, WHICH IS TO CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND UNDERWRITER'S CODE.
- S. THE SIGN(S) JUNCTION BOX PERMIT IS TO BE INCLUDED IN THE WORK FOR THE ELECTRICAL SUBCONTRACTOR AND THE BOX IS TO BE SUPPLIED BY THIS CONTRACTOR AND PROPERLY LABELED.
- T. FURNISH AND INSTALL NEW (OR REFURBISH IF EXISTING) TOILET EXHAUST WITH ASSOCIATED DUCTWORK, ROOF PENETRATIONS, OR HOOK UP TO COMMON EXHAUST DUCT WITH BACKDRAFT DAMPER ETC., INCLUDING ASSOCIATED ELECTRICAL HOOKUP AND PANEL CONNECTIONS, WHETHER SUCH WORK IS SHOWN OR NOT SHOWN ON PLANS AND SPECIFICATIONS.
- U. IF A SMOKE EVACUATION AND / OR DETECTION SYSTEM OCCURS FOR THIS SPACE, IT SHALL BE LEFT INTACT DURING CONSTRUCTION AND ANY NEW WORK, MODIFICATIONS AND/ OR REWIRING TO BE COMPLETED DURING CONSTRUCTION PHASE TO POINT OF NEW PANELS, WHETHER SHOWN OR NOT SHOWN ON PLANS AND SPECIFICATIONS.
- V. ENGINEER, FURNISH AND INSTALL ANY AND ALL REQUIRED SMOKE EVACUATION, SMOKE DETECTION AND FIRE ALARM SYSTEMS, INCLUDING ANY AND ALL PARTS AND LABOR, TO MEET LOCAL CODE, LANDLORD REQUIREMENTS AND FIRE MARSHAL SPECIFICATIONS WHETHER SHOWN OR NOT SHOWN ON PLANS AND SPECIFICATIONS.
- W. THE ELECTRICAL SUBCONTRACTOR TO COORDINATE WITH OTHER ENGINEERING DRAWINGS AND INCLUDE COSTS (LABOR AND MATERIALS) NECESSARY FOR OTHER ELECTRICAL EQUIPMENT / FIXTURES NOT SHOWN ON THESE ELECTRICAL DRAWINGS, BUT SHOWN ON OTHER ENGINEERING DRAWINGS.
- 7. THE TENANT'S GENERAL CONTRACTOR AND/ OR ELECTRICAL SUBCONTRACTOR IS TO INSTALL EMERGENCY AND EXIT LIGHTING, AS REQUIRED BY LOCAL CODE OR AGENCIES HAVING JURISDICTION OVER THE PROJECT. THE EXIT/ EMERGENCY LIGHTING SHOULD BE PROPERLY LABELED AND APPROVED TYPE LOCKOUTS INSTALLED.
- 8. SUBSTITUTIONS: CATALOG AND MANUFACTURER'S NUMBERS IN THIS SECTION AND ON THE DRAWINGS ARE FOR THE PURPOSE OF ESTABLISHING STANDARDS OF QUALITY AND TYPE OF MATERIALS TO BE USED. PRODUCTS OR OTHER MANUFACTURERS MAY BE USED IF SIMILAR AND EQUAL IN QUALITY AND DESIGN IN THE OPINION OF THE OWNER OR OWNER'S ARCHITECT AND ARE SPECIFICALLY APPROVED BY THE OWNER OR OWNER'S ARCHITECT, IN WRITING, PRIOR TO CLOSE OF BIDDING. REQUESTS FOR APPROVAL OF SUBSTITUTIONS SHALL BE IN WRITING, AND SHALL INCLUDE REPORTS OF TESTS, PERFORMANCE DATA OR OTHER PROOF OF EQUALITY TO THE ITEM SPECIFIED.
- 9. SHOP DRAWINGS & SUBMITTALS: PRIOR TO THE COMMENCEMENT OF WORK, SUBMIT ONE (1) SET OF THE FOLLOWING ITEMS TO THE OWNER'S ARCHITECT IN THE FORM OF SHOP DRAWINGS, DETAILS OR CATALOG CUTS FOR THE RECORD: LIGHTING AND POWER PANELS, WIRING DEVICES, SAFETY SWITCHES, TRANSFORMER, TIME CLOCKS AND ANY OTHER ITEMS AS REQUESTED BY THE OWNER OR THE OWNER'S ARCHITECT.
- A. BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS TO THE CLIENT AND ARCHITECT THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO AND (3) CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
- B. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK FOR WHICH THE CONTRACT DOCUMENTS REQUIRE SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE RESPECTIVE SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT.

- C. THE WORK SHALL BE IN ACCORDANCE WITH APPROVED SUBMITTALS EXCEPT THAT THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY ANY APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE CLIENT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND
- C.1. THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION AS A MINOR CHANGE IN THE WORK, OR A CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE HAS BEEN ISSUED AUTHORIZING THE DEVIATION.
- C.2. THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PREVIOUS SUBMITTALS. IN THE ABSENCE OF SUCH WRITTEN NOTICE, THE ARCHITECT'S APPROVAL OF A RESUBMISSION SHALL NOT APPLY TO SUCH REVISIONS.
- D. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT'S APPROVAL THEREOF.

10. WORKMANSHIP

- A. USE EXPERIENCED, WELL-QUALIFIED CRAFTSMEN, IN GOOD STANDING WITH THEIR RESPECTIVE LABOR UNIONS.
- B. USE CAPABLE AND EXPERIENCED SUPERINTENDENTS, AUTHORIZED BY THE CONTRACTOR TO INSTRUCT WORK, MAKE JOB DECISIONS AND ACT FOR THE CONTRACTOR IN ALL MATTERS PERTAINING TO THE CONTRACT.

11.PERMITS. TESTS AND INSPECTIONS:

- A. APPLY FOR, SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, LICENSES AND ROYALTIES TO
- B. APPLY FOR, SECURE AND PAY FOR ALL REQUIRED TESTS AND INSPECTIONS TO ACCOMPLISH THE WORK IN CONFORMANCE WITH ALL CODES AND JURISDICTIONS.
- C. FURNISH SIGNED CERTIFIED AND ACCEPTABLE COPIES OF ALL ITEMS COVERED IN (A) AND (B) ABOVE TO THE OWNER FOR HIS RECORDS.D. COMPLY WITH RULES AND REGULATIONS OF JURISDICTIONAL AUTHORITIES AND MALL OR LEASE
- 12. CODES, RULES AND REGULATIONS: INCLUDE IN ELECTRICAL BID ANY ADDITIONAL MATERIALS AND LABOR, THAT MAY BE REQUIRED FOR COMPLIANCE WITH ALL GOVERNING LAWS, RULES AND REGULATIONS, EVEN THOUGH THE WORK IS NOT MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. NOTHING IN THE PLANS OR SPECIFICATIONS SHALL BE DEEMED AS AUTHORITY TO VIOLATE ANY GOVERNING CODE.

SPECIFICATIONS AND REPORT ANY DEVIATIONS ON DRAWINGS TO OWNER.

13. ACCURACY OF DATA:

- A. THE DATA GIVEN HEREIN AND ON THE DRAWINGS ARE AS EXACT AS COULD BE SECURED, BUT THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED. THE SPECIFICATIONS AND DRAWINGS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES, LEVELS, ETC., WILL BE GOVERNED BY THE BUILDING AND THE CONTRACTOR SHALL USE THE DATA CONTAINED HEREIN WITH THIS UNDERSTANDING.
- B. THE EXACT LOCATION OF EACH AND EVERY OUTLET OF EACH WIRING SYSTEM, NOT DIMENSIONED ON THE DRAWINGS, SHALL BE AS DIRECTED BY THE OWNER, THE OWNER'S ARCHITECT OR HIS SELECTED REPRESENTATIVE.
- 14. <u>CLEANUP</u>: REMOVE ALL SURPLUS MATERIAL, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES IN A CONDITION ACCEPTABLE TO THE OWNER.
- 15. GUARANTEE: FURNISH A WRITTEN CERTIFIED GUARANTEE, IN ACCEPTABLE FORM TO THE OWNER, AGAINST ANY DEFECTIVE WORKMANSHIP, MATERIAL AND OPERATING EQUIPMENT. THIS GUARANTEE SHALL BE IN FULL FORCE AND EFFECTIVE FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE INSTALLATION.
- 16. TEMPORARY ELECTRIC SERVICE: THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL WIRING FOR CONSTRUCTION USE AS FOLLOWS: THE SERVICE ENTRANCE AND FEEDER SHALL BE 60 AMPS, SINGLE PHASE, 3 WIRE 120/208 VOLT FUSED MAIN DISCONNECT. THE FEEDER TO SERVE THE TEMPORARY DISTRIBUTION WIRING PROVIDING TEMPORARY LIGHTING IN ALL AREAS AS INDICATED ON DRAWINGS AND WHEREVER REQUIRED FOR THE OPERATION OF 120 VOLT SINGLE PHASE PORTABLE TOOLS AND EQUIPMENT NOT TO EXCEED 1 H.P.. THE WIRING SHOULD BE EXTENDED ALSO, SO THERE IS A 120 VOLT SINGLE PHASE OUTLET WITHIN 75 FEET OF ANY PORTION OF THE BUILDING. PROVIDE GROUND FAULT PROTECTION FOR ALL REQUIRED RECEPTACLES NOT TO BECOME A PERMANENT PART OF THE INSTALLATION.
- 17. STRUCTURAL CONDITIONS: NOTCHING AND BORING OF STRUCTURAL MEMBERS WILL NOT BE PERMITTED. IF CONDUIT, BOXES, ETC. NEED TO BE HUNG FROM STRUCTURAL STEEL, ONLY HANG FROM TOP FLANGE OF BEAMS AND TOP CHORDS AND ONLY AT PANEL POINTS OF JOISTS/ TRUSSES.

 18. COOPERATION WITH OTHER CONTRACTORS: THIS CONTRACTOR SHALL COOPERATE WITH ALL
- 18. COOPERATION WITH OTHER CONTRACTORS: THIS CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS FURNISHING LABOR MATERIALS AND ALL WORK, SO THAT THE WORK AS A WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICT OR DELAY. IN THE EVENT OF ANY MECHANICAL OBSTRUCTION, AS PLUMBING OR AIR CONDITIONING DUCTS IN WAY OF ELECTRICAL EQUIPMENT, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO NOTIFY THE OWNER'S ARCHITECT BEFORE COMMENCING ANY WORK.

II. BASIC MATERIALS AND METHODS

1. RACEWAYS AND BOXES

- A. WHERE SIZES OF RACEWAY OR BOXES ARE NOT INDICATED, THE CONTRACTOR SHALL SIZE THESE ITEMS AS REQUIRED FOR THE INSTALLATION.
- B. LEXIBLE METAL CONDUIT AS ALLOWABLE BY CODE SHALL BE USED FOR FINAL CONNECTION OF LIGHTING FIXTURES AND WIRING DEVICES TO BE INSTALLED IN HUNG CEILINGS.
- C. WORK INSTALLED IN METAL PARTITIONS SHALL BE RUN IN CONCEALED ELECTRIC METALLIC TUBING OR FLEXIBLE CONDUIT AS REQUIRED BY GOVERNING CODE AND LANDLORD.
- D. BRANCH CIRCUIT WORK CHASED INTO EXISTING CONSTRUCTION FOR CONCEALMENT UNDER PATCHED FINISHES, MAY BE INSTALLED IN RIGID CONDUIT, OR EMT.
- E. CONDUITS THAT RUN EXPOSED ON EXTERIOR OF BUILDING SHALL BE RIGID CONDUIT WITH WEATHER TIGHT, CORROSION RESISTANT FITTINGS.
- F. FLEXIBLE STEEL CONDUITS SHALL BE USED IN MAKING UP SHORT, FLEXIBLE CONNECTIONS TO ROTATING OR VIBRATING MACHINERY, MINIMUM 12" LENGTH AND FOR CONNECTIONS BETWEEN JUNCTION BOXES IN HUNG OR FURRED CEILING FIXTURES.
- G. ALL INTERIOR FEEDERS OR EXPOSED FEEDERS TO THE PUBLIC'S EYE, SHALL BE INSTALLED IN RIGID CONDUIT OR EMT.
- H. ALL INTERIOR LOW VOLTAGE WIRING SHALL BE INSTALLED IN RIGID CONDUIT OR EMT WHERE REQUIRED BY CODE.

I. MINIMUM SIZE CONDUIT SHALL BE 3/4" TRADE SIZE UNLESS OTHERWISE INDICATE ON THE

- DRAWINGS.

 J. ALL WORK RUN IN UNEXCAVATED AREAS, CRAWL SPACES, TUNNELS, OR UNDERGROUND SHALL
- J. ALL WORK RUN IN UNEXCAVATED AREAS, CRAWL SPACES, TUNNELS, OR UNDERGROUND SHAL BE INSTALLED IN RIGID CONDUIT.

K. ALL WORK RUN EXPOSED WITHIN THE BUILDING MAY BE INSTALLED IN RIGID STEEL CONDUIT OR

- ELECTRICAL METALLIC TUBING.

 L. ALL WORK RUN CONCEALED WITHIN HUNG OR FURRED CEILINGS, METAL STUD PARTITIONS AND THE LIKE, MAY BE INSTALLED IN RIGID STEEL CONDUIT, ELECTRIC METALLIC TUBING EXCEPT
- THE LIKE, MAY BE INSTALLED IN RIGID STEEL CONDUIT, ELECTRIC METALLIC TOBING EXCEPT THAT WIRING IN OR THROUGH SLABS SHALL BE IN RIGID CONDUIT.

 M. GALVANIZED PRESSED STEEL OUTLET BOXES OF PROPER SIZE AND TYPE AS REQUIRED BY THE BUILDING CONDITIONS SHALL BE PROVIDED FOR ALL INTERIOR OUTLETS FOR LIGHTING
- SWITCHES, RECEPTACLES, CLOCKS, SIGNALS, AND THE LIKE.

 N. PROVIDE GALVANIZED FITTINGS FOR EXPOSED WORK, THREADED FOR CONDUIT CONNEC
- N. PROVIDE GALVANIZED FITTINGS FOR EXPOSED WORK, THREADED FOR CONDUIT CONNECTIONS AND PROVIDE WITH SUITABLE COVERS.
 O. THE OUTLETS FOR LOCAL SWITCHES SHALL BE INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATIONS INDICATED ON THE DRAWINGS;

THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLING CONDUIT AND OUTLETS. 2. GROUNDING: A. ALL MAJOR PARTS NOT CARRYING CURRENT, INCLUDING THE FOLLOWING ITEMS BELOW, SHALL

- BE PROPERLY GROUNDED:

 A.1. SECONDARY FEEDER CONDUIT AND EQUIPMENT ENCLOSURES.

 A.2. PANEL BOARD ENCLOSURES, PULL AND JUNCTION BOXES, CABLE TROUGHS
- A.2. PANEL BOARD ENCLOSURES, PULL AND JUNCTION BOXES, CABLE TROUGHS
 A.3. ALL CONDUITS, METAL MOLDING AND OUTLET BOXES.
 A.4.FAN AND EQUIPMENT HOUSINGS EXPOSED ON THE STRUCTURE OR ON GRADE

 B. ALL CASH REGISTER OUTLETS TO BE ISOLATED AND SEGREGATED.
- 3. SAFETY SWITCHES: PROVIDE WHERE SHOWN OR AS REQUIRED, HEAVY-DUTY, METAL ENCLOSED, EXTERNALLY OPERATED FUSED, OR UNFUSED, SAFETY SWITCHES, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED. THE OPERATING MECHANISM SHALL BE SO DESIGNED THAT THE SWITCHES MAY BE LOCKED IN THE "ON" OR "OFF" POSITIONS. WHERE "WEATHERPROOF" SAFETY SWITCHES ARE INDICATED OR REQUIRED, THESE SHALL BE AS SPECIFIED ABOVE EXCEPT ENCLOSURES SHALL BE NEMA III, RAINTIGHT.

MOTOR AND OTHER WIRING:

- A. PROVIDE ALL REQUIRED CONDUIT, WIRING AND SAFETY SWITCHES FOR ALL MOTORS, AND ANY
- B. ALL MOTORS WILL BE FURNISHED AND SET UNDER OTHER DIVISION, THE WORK OF THIS DIVISION SHALL INCLUDE PROVIDING ALL CONNECTIONS SO AS TO BE COMPLETE.C. ALL STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, LEVEL SENSORS, ALARM
- CONTRACTORS, UNLESS OTHERWISE NOTED HEREIN. BUT THIS CONTRACTOR SHALL SET THESE DEVICES AND PROVIDE ALL CONNECTIONS.

 D. FOR EACH THERMOSTAT (BY H.V.A.C.), PROVIDE 4" x 4" OUTLET BOX WITH 3/4" EMPTY CONDUIT STUDENT OF THE PROVIDE STEEL DRAG WIDE FOR EACH LOCATION.

DEVICES, REMOTE CONTROL PUSH BUTTONS, ETC., WILL BE FURNISHED BY THE VARIOUS

- STUBBED UP INTO CEILING AND BUSHED. PROVIDE STEEL DRAG WIRE FOR EACH LOCATION.

 WIRING DEVICES:
- A. COMPUTER RECEPTACLES AT CASH WRAP AREA SHALL BE HUBBELL #IG5262, COMPUTER GRADE WITH "ISOLATED" GROUND LUGS.
 B. ALL WIRING DEVICES INSTALLED IN THIS BUILDING SHALL BE "SPECIFIED GRADE,"
- C. LOCAL SWITCHES SHALL BE TOGGLE TYPE, A.C. RATED 20 AMPERES, 125 VOLTS, QUIET-TYPE WITH SILENT OPERATING MECHANISM, TOTAL CLOSED IN A MOLDED COMPOSITION BASE. SWITCHES SHALL BE SINGLE POLE. THREE OR FOUR-WAY AS INDICATED. WHERE LOCK TYPE

OPERATOR; PROVIDE TO OWNER TWO (2) KEYS FOR EACH SWITCH INSTALLED.

D. ALL RECEPTACLES INSTALLED IN THIS BUILDING SHALL BE OF THE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE

LOCAL SWITCHES ARE INDICATED, THESE SHALL BE SIMILAR TO ABOVE SPECIFICATION WITH KEY

MANUFACTURED BY ARROW, HART AND HEGEMAN, HUBBELL, GENERAL ELECTRIC, OR

CONNECTION TO CONDUIT SYSTEM.

6. WIRES AND CABLES:

- A. ALL WIRE FOR LIGHT AND POWER INSTALLATIONS SHALL BE HIGH CONDUCTIVITY COPPER, 600 VOLT INSULATED IN ACCORDANCE WITH THE NATIONAL BOARD OF FIRE UNDERWRITERS STANDARDS FOR TYPE "THW" WIRES, EXCEPT AS NOTED ON THE DRAWINGS OR OTHERWISE
- B. NO WIRE SHALL BE SMALLER THAN NO. 12 A.W.G.. ALL WIRES NO. 8 AND LARGER SHALL BE

E. CIRCUIT WORK BETWEEN OUTLET BOXES AND EACH RECESSED LIGHTING FIXTURE SHALL BE

- STRANDED.

 C. WIRES SHALL BE COLOR CODED.
- D. ALL WIRES SHALL BE POLARIZED.

7. LIGHTING AND POWER PANELS

- TYPE 'AF' WIRE.

 F. HOME RUNS AND BRANCH WIRING FOR 120 VOLT CIRCUITS SHALL BE AS FOLLOWS:
- F. HOME RUNS AND BRANCH WIRING FOR 120 VOLT CIRCUITS SHALL BE AS FOLLOWS:

 LENGTH HOME RUN WIRE SIZE CIRCUIT WIRE SIZE

 1' TO 50'

 12

 12

50' TO 100' 10 12 100' TO 150' 8 12

- A. PANELS SHALL BE CIRCUIT BREAKER TYPE INSTALLED IN CODE GAUGE GALVANIZED SHEET STEEL CABINETS, FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS. THE PANEL SECTIONS SHALL BE MOUNTED AWAY FROM THE BACK OF THE CABINETS IN SUCH A MANNER THAT THERE WILL BE NO SPACE BETWEEN THE CABINET TRIMS AND FRAMES. THE GUTTER SPACES ON ALL SIDES, TOPS AND BOTTOMS SHALL BE OF SUFFICIENT SIZE TO PREVENT OVERCROWDING OF WIRES AND CABLES AND TO PROVIDE SUFFICIENT VENTILATION TO PREVENT OVERHEATING OF THE CIRCUIT BREAKERS. EACH CABINET SHALL BE COMPLETE WITH HINGED DOORS, CYLINDER LOCK, DIRECTORY FRAME AND NEATLY TYPED DIRECTORY CHARTS. ALL PANELS SHALL BE KEYED ALIKE. INSTALL AN ANGLE PIECE ON INSIDE OF EACH TRIM FOR EASE OF INSTALLATION.
- B. HE BRANCH CIRCUIT BREAKERS, IN GENERAL, SHALL BE MOLDED CASE, BOLT-ON TYPE, RATED 10,000 AIC ON 120/208V, 100 AMPERE FRAME, THERMAL MAGNETIC TRIP SINGLE, TWO OR THREE POLE AS SHOWN ON THE DRAWINGS. ALL MULTIPLE POLE BREAKERS FOR PANELS WHERE INDICATED ON THE DRAWING SCHEDULES. MAIN BREAKER CHARACTERISTICS SHALL BE AS INDICATED ON THE DRAWINGS. MAIN BUSS WORK OF ALL PANELS SHALL, AS A MINIMUM, BE DESIGNED TO CARRY THE FULL RATING OF THE FEEDER SWITCH SUPPLYING THE PANEL, AT A CIRCUIT DENSITY OF 800 AMPERES PER SQUARE INCH OF CROSS SECTION. BUSS WORK SHALL BE HIGH CONDUCTIVITY COPPER (277 / 480V CIRCUIT BREAKERS SHALL BE RATED AT 14,000
- C. PANEL SECTIONS SHALL BE SUCH THAT NO LIVE PARTS ARE EXPOSED AFTER INSTALLATION. THEY SHALL BE SO ARRANGED THAT EACH BREAKER IS READILY REMOVABLE FROM THE PANEL WITHOUT DISTURBING ADJACENT BREAKERS. ELECTRICAL CONTRACTOR TO PROVIDE TYPED
- D. PHASE LEGS SHALL BE ALTERNATELY BUSSED TO EACH CIRCUIT BREAKER IN A MANNER TO AFFECT BALANCING THE BRANCH CIRCUIT CONNECTIONS AS NEARLY AS POSSIBLE OVER EACH

8. DRY TYPE TRANSFORMERS (IF NEW IS REQUIRED):

- A. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A DRY TYPE AIR COOLED INDOOR POWER TRANSFORMER, AS RATED ON THE DRAWINGS AND HEREINAFTER SPECIFIED.
- B. THE TRANSFORMER SHALL BE PROVIDED WITH SUITABLE VIBRATION DAMPERS. SAME TO BE PLACED BETWEEN THE CORE AND THE COILS OF THE ENCLOSURE.
- C. THE TRANSFORMER SHALL HAVE CLASS 'H' INSULATION, AND THE WIRING TEMPERATURE RISE SHALL NOT EXCEED 150 DEGREES CELSIUS UNDER FULL LOAD IN AN AMBIENT TEMPERATURE OF 40 DEGREES CELSIUS.
- D. THE TRANSFORMER ENCLOSURE SHALL BE PRIMED INSIDE AND OUT WITH A ZINC-COATED CHROMATE IRON OXIDE RUST INHIBITING PRIMER AND FINISHED ASAG1 GRAY ENAMEL.
- E. THE MAXIMUM ACCEPTABLE NOISE LEVEL SHALL NOT EXCEED THE FOLLOWING: 0 TO 150kVA 42 dB.

A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE SUPPLIED BY THE TENANT AND / OR TENANT'S LIGHT FIXTURE AND LAMP SUPPLIER UNLESS OTHERWISE NOTED, AND SHALL BE DELIVERED HANDLED, ASSEMBLED AND INSTALLED AT THE SITE BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNLOADING, STORAGE AND

- PROTECTION OF ALL ITEMS FOUND TO BE DEFECTIVE AND SHALL BE REPLACED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

 B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL THE NECESSARY LABOR AND MATERIALS
- FOR HE COMPLETE INSTALLATION OF THE LIGHTING FIXTURES AS INDICATED ON THE DRAWINGS.

 C. ALL FLUORESCENT AND INCANDESCENT LAMPS SHALL BE AS NOTED ON PLANS AND SPECIFICATIONS AND SHALL BE PROVIDED BY THE TENANT AND/OR TENANT'S LIGHT FIXTURE AND AMP SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- D. SEE ELECTRICAL DRAWING FOR LIGHTING FIXTURE DESCRIPTIONS.

III. SPECIFIC ELECTRICAL SPECIFICATIONS

9. LIGHTING FIXTURES:

- 1. SEE ELECTRICAL DRAWINGS LANDLORD'S CRITERIA: THE ELECTRICAL CONTRACTOR IS TO BECOME FAMILIARIZED WITH LANDLORD'S CRITERIA FOR THIS LOCATION AND INCLUDE ANY WORK REQUIRED F THIS CRITERIA, WHICH IS NOT SPECIFICALLY NOTED IN THESE DRAWINGS AND SPECIFICATIONS.
- IV. <u>TELEPHONE</u>1. <u>PROVIDE</u> 3/4" EMT IN WALLS WITH DRAG STRING AT EACH LOCATION.
- V. MISCELLANEOUS
- MISCELLANEOUS
 ALUMINUM WIRE IS STRICTLY PROHIBITED FOR THIS PROJECT.
- 2. DURING DEMOLITION, ANY ELECTRICAL EQUIPMENT, FIXTURE SYSTEMS, CONDUIT AND WIRE ARE TO BE REMOVED AS NOTED AND NOT REUSED. THIS UNUSED EQUIPMENT, FIXTURE SYSTEMS, CONDUIT, AND WIRE MAY NOT BE ABANDONED AND LEFT WITHIN THE SPACE. THEY MUST BE REMOVED TO AN APPROVED DISPOSAL SITE.

HOME RUNS AND BRANCH WIRING FOR 120 VOLT 16 AMP CIRCUITS SHALL

AS FOLLO	WS TO ACCOUNT FOR VOLT	AGE DROP:
ENGTH	HOME RUN WIRE SIZE	CIRCUIT WIRE SIZE
TO 65'	12	12
6' TO 104'	10	12
)5' TO 156'	8	12
7'TO 263'	6	12

Verify any demolition work, and any new work, required by the landlord that is not shown on plans with LANDLORD Mall Operations Manager prior to bid.
 Reuse of existing service, metering, panelboards, transformers, conduit, wire, etc. is subject to building dept. and landlord approval. Verify if allowed to reuse, and if any work is required by the building dept, or the

landlord, with the building dept., the tenant's architect and LANDLORD Mall Operations Manager prior to bid.

• Must cover return air opening prior to start of demolition work and/or new construction. Verify landlord requirements with LANDLORD Mall

Operations Manager.

• Verify landlord's requirements for removing abandoned floor penetrations and patching floor slab with LANDLORD Mall Operations Manager prior to bid. Floor slab patching must be approved by the landlord prior to

Verify fire alarm / life safety system requirements with the tenant's architect and LANDLORD Mall Operations Manager prior to bid. Must use landlord's fire alarm contractor. Verify with LANDLORD Mall Operations
 Manager. Reuse of any existing devices, wiring, etc. is subject to approval by the fire dept & LANDLORD Mall Operations Manager. Verify if any service/maintenance work is required prior to bid. All conduit, J-boxes, cable, etc must be painted red and labeled "fire alarm."

Verify if required to mute tenant's music/stereo system when fire alarm system is activated with landlord's fire alarm system contractor and the tenant's architect prior to bid.
 All lighting fixture, equipment, devices, etc. shall be U.L. Listed.

 All light fixtures, equipment, wiring methods, etc. within ceiling return air plenum shall comply with NEC Section 300-22, and any additional building dept. or landlord requirements. Verify if any additional building dept. or landlord requirement with the tenant's architect and LANDLORD Mall Operations Manager prior to bid.

Provide lock-on device for exit light, emergency light and fire alarm circuits as required.
 Balance panelboard loads to within 10 percent of lowest phase and submit report to LANDLORD Mall Operations Manager.

Verify landlord's floor slab saw cutting requirements with LANDLORD Mall Operations Manager prior to bid. May be required to perform radar/sonar/X-ray verification survey of floor slab.
 Verify landlord approved methods for attaching to building structure when hanging/supporting HVAC equipment, ductwork, piping, water heaters, transformers, fixtures, conduit, etc. with the tenant's architect and LANDLORD

floor slab, is not allowed. May be required to submit detail/plan to landlord's structural engineer for approval at the tenant's expense.

Provide access to any landlord and/or tenant equipment, valves, dampers, controls, cleanouts, J-boxes, etc. located above GYP board ceiling and any other inaccessible areas as required. Verify/coordinate required access panel, locations with the tenant's architect and LANDLORD Mall Operations

Mall Operations Manager prior to bid. Attaching to roof deck, or upper level

See notes on plans and verify all materials and work required by the landlord prior to bid.
 The landlord's Operations Manager shall have the authority to make on-site decisions and field changes in accordance with the landlord's tenant design criteria, and any specific mall operation needs/requirements not noted on plans.

ALL WORK AND MATERAL SHALL BE IN ACCORDANCE WITH THE LANDLORD'S

INTERPRETAITION SHALL APPLY.

Manager prior to bid/start of work.

"TENANT DESIGN CRITERIA"

"TENANT CONSTRUCTION CRITERIA"

ALL CONTRACTOR SHALL OBTAIN A COPY FROM THE LANDLORD'S TENANT COORDINATOR OR GGP Mall Operations Manager AND BECOME FAMILIAR WITH THE REQUIREMENTS CONTAINED WITHIN PRIOR TO BIDDING THE JOB. WHERE LANDLORD'S REQUIREMENTS CONFLICT WITH CODES OR ORDINANCES, THE STRICTEST

CONSULTANTS (ENGINEER):

NY ENGINEER

NEARBY ENGINEERS
382 NE 191ST STREET SUITE 49674,
MIAMI, FL 33179
PH-914.257.3455
WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES: WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE

02/25/25 CD SET- CLIENT/LL REVIEW
03/24/25 PERMIT SET

EXISTING CONDITIONS PRIOR TO THE

COMMENCEMENT OF WORK.

DATE REVISION

AX

ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025

PROJECT NUMBER: 12402-25

AREA: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE

ELECTRICAL GENERAL NOTES

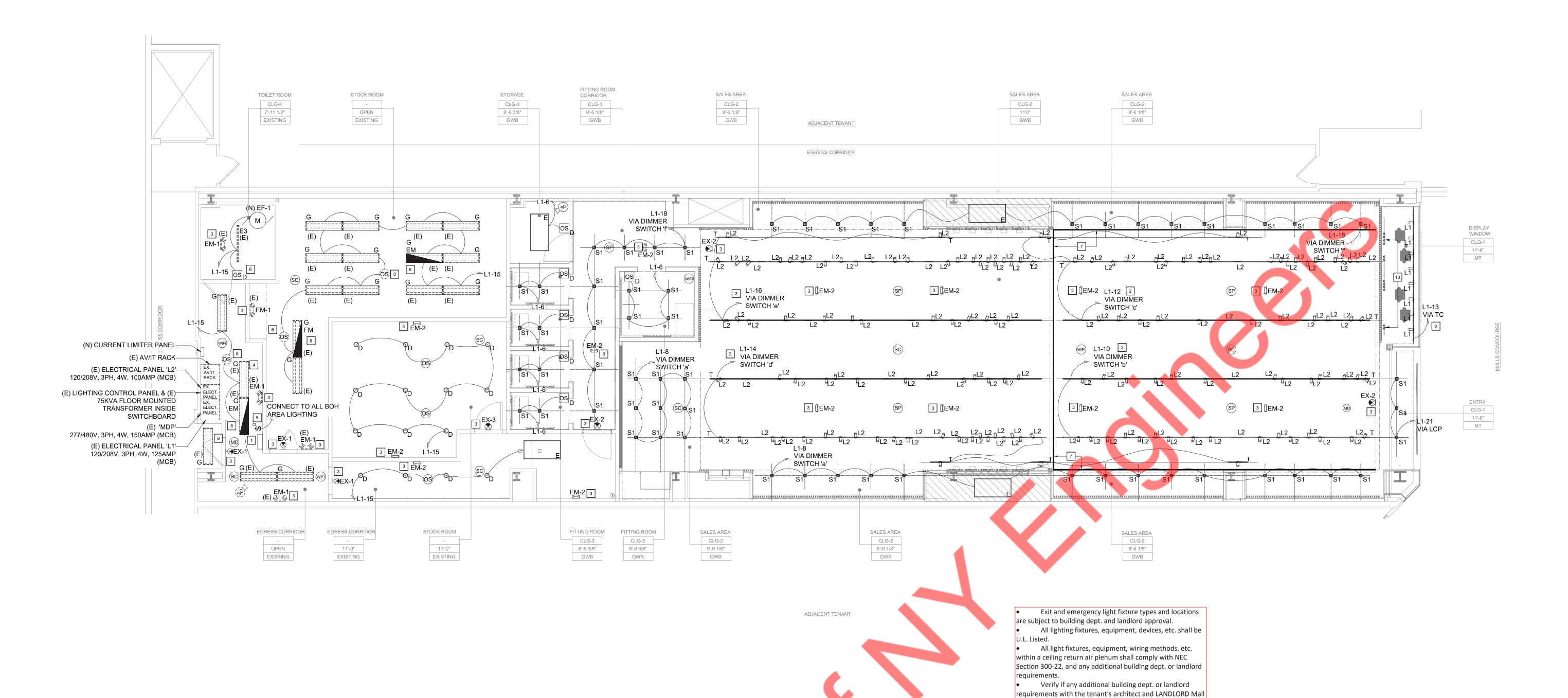
SHEET NUMBER:

E1.0

LEGEND:

NEW (N)

EXISTING (E)



1 ELECTRICAL LIGHTING PLAN

		HGI	HT FIXT	URF S	SCHFI	DUI F			
TYPE	SYMBOL	DESCRIPTION	MNFCTRER.	LAMP	WATTS	VOLTS	LOCATION	FINISH	NOTE
S1		LOGO PRO MINI- 9.5W- 4000K	SISTEMALUX	LED PROJECTOR	9.5	_	FITTING ROOM & FITTING ROOM MIRROR, SALES AREA	BLACK	
	®k	EN-TLO SERIES, PREMIUM VERSION 2-PIN TRACK ADAPTOR	ØVEGA	LÉD TRACK LIGHT	15/		SALES AREA	BLACK	REPOSITIONED LIGHTING ITEMS (MOVED FROM DISUSED POSITION)
L1	L1	DORA SMALL - 15W- 4000K	LPA LIGHTING & ENERGY SOLUTIONS	LED TRACK LIGHT	15	_	DISPLAY WINDOW	BLACK	
L2	L2 10)	DORA SMALL - 15W- 4000K	LPA LIGHTING & ENERGY SOLUTIONS	LED TRACK LIGHT	15	_	SALES AREA	BLACK	
Т		ELECTRIFIED TRACK	-	_	_	_	SALES AREA	BLACK	
D	0	6" SWITCHABLE WHITE ADJUSTABLE LED DOWNLIGHT. CATALOG# WF6 ADJ SWW590CRI MW M6 UNIVERSAL NEW CONSTRUCTION WAFER PAN WF8648 UNIVERSAL WAFER PAN	JUNO		12	120	STOCKROOM		
G (E)	Kananananan	EXISTING RECESSED: IBRIGHT 1X4 LED TROFFER DLC MODEL. RTUS1 4HU400000	ATG ELECTRONICS	LED	42	120/ 277	STOCKROOM		
EM-1	<u></u>	EXISTING EMERGENCY LIGHT. R-1 INCANDESCENT EMERGENCY UNIT	BEST LIGHTING PRODUCTS	LED	5.4	120/ 277	120/ 277		BLACK/WHITE
EM-2		LED EMERGENCY LIGHT W/BATTERY BACK-UP	MAXILUME	LED		120/ 277			BLACK
EX-1	\Sigma	EXISTING EXIST SIGN.	-	-	-	-	STOCKROOM	-	-
EX-2	lack lack	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, RED LETTERS, SELF-TEST/SELF DIAGNOSTICS	EXITRONIX LED CAT No: VLED-U-WH-EL90						
E3	>=====	EXISTING RESTROOM LIGHT FIXTURE	-	-	-	-	RESTROOM	-	-
E		BACKLITE-LINE: LED PANEL 2'X4' LED-BPL-2X4-3M50W-4CCT	ENVISION LED	LED	30	120	BOH & STORAGE	-	EMERGENCY LIGHT

KEY NOTES NEW MASTER DIMMER SWITCH BANK LOCATION (CLOSE TO BACK ENTRANCE). SEE DETAIL IN THIS SHEET FOR ADDITIONAL INFORMATION. VERIFY/CONFIRM LOCATION WITH OWNER PRIOR TO INSTALLATION AND ROUGH-IN.

ROUTE TRACK LIGHTING CIRCUIT THROUGH A CURRENT LIMITING PANEL. REFER TO CURRENT LIMITER PANEL SCHEDULE FOR MORE INFORMATION.

ALL NEW/EXISTING/RELOCATED EXIT SIGNS & EMERGENCY LIGHTS TO BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.

THIS LIGHT FIXTURE SHALL NOT BE CONTROLLED BY AUTOMATIC MEANS ONLY AS PER NEC 110.26(D).

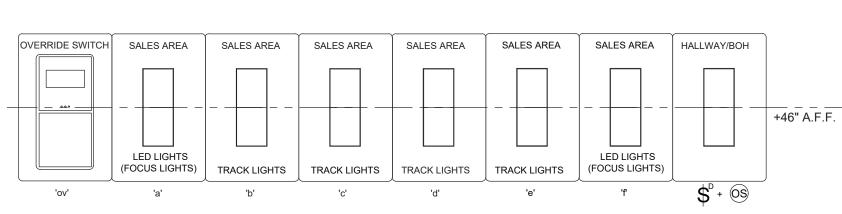
DIMMER SWITCH FOR ALL BACK OF HOUSE LIGHTING. SWITCH SHALL BE RATED FOR TOTAL LOAD OF SWITCHED CIRCUIT AND LAMP TYPE AS REQUIRED. DIMMER SHALL BE PROVIDED WITH AN ON/OFF SWITCH. CONTRACTOR TO COORDINATE IF ANY ADDITIONAL SWITCHES REQUIRED FOR THE CONTROL OF LIGHT FIXTURES. BASE BID ACCORDINGLY.

- EXISTING CEILING MOUNTED OCCUPANCY SENSOR. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING CEILING MOUNTED OCCUPANCY SENSOR. REUSE IF POSSIBLE, OTHERWISE PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR. BASE BID ACCORDINGLY.
- REFER SHEET E3.0- POWER PLAN FOR EXACT POWER PROVISION/ ELECTRICAL REQUIREMENT OF UPPER FASCIA LED WALL.

 B LIGHT FIXTURES DESIGNATED WITH EM TO REMAIN ENERGIZED AT EMERGENCY (POWER OUT) CONDITION. ELECTRICAL CONTRACTOR, TO PROVIDE AN ACCURATION OF A SECOND STATE OF A SECOND STATE
- CONTRACTOR TO PROVIDE UL924 OVERRIDE DEVICE FOR EVERY EMERGENCY CIRCUIT IN ENCLOSED SPACE AS INDICATED ON PLANS.

 EXISTING LIGHT FIXTURE AND CONTROLS TO REMAIN. MAINTAIN CIRCUIT CONTINUITY TO FIXTURE AND ASSOCIATED CONTROLS
- REFER SHEET E3.0- POWER PLAN FOR EXACT POWER PROVISION/ ELECTRICAL REQUIREMENT FOR WINDOW FACADE BACKLIT SYSTEM (AX SIGN).

MASTER DIMMER SWITCHBANK DETAIL



IOTE:

Operations Manager prior to bid.

Verify if occupancy sensors are required in any non-

- 1. ALL TRACK LIGHTING ARE CONTROLLED VIA DIMMER SWITCHES. DIMMER SWITCHES SHALL BE RATED FOR TOTAL LOAD OF SWITCHED CIRCUIT AND LAMP TYPE AS
- 2. ELECTRICAL CONTRACTOR TO LABEL ALL DIMMER SWITCHES AS SHOWN IN THE DIAGRAM.
- 3. REFER TO LIGHTING CONTROL OVERVIEW FOR LIGHTING CONTROL REQUIREMENTS ON SHEET E4.0. EXACT TIME SCHEDULE PROGRAMMING SHALL BE COORDINATED WITH TENANT REPRESENTATIVE ON SITE.
- 4. PROVIDE OCCUPANCY SENSORS COMPLETE WITH ALL CABLES, MOUNTING HARDWARE, AND ACCESSORIES AS REQUIRED.
- 5. COORDINATE EXACT MOUNTING HEIGHT OF OCCUPANCY SENSORS ON SITE. MOUNT SENSORS WITH THE RECEIVERS FACING THE AREA OF COVERAGE.
- 6. CONTRACTOR SHALL CALIBRATE SENSITIVITY AND COVERAGE SETTINGS OF EACH SENSOR AFTER INSTALLATION TO ENSURE PROPER OPERATION OF UNIT. COORDINATE TIME DELAY SETTINGS OF EACH SENSOR WITH OWNER.
- 7. COORDINATE WITH LIGHTING CONTROL SYSTEM VENDOR FROM MANUFACTURER TO COMMISSION THE COMPLETE LIGHTING CONTROL SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE DOCUMENTATION PER DEVICE TO SHOW OPERATION IS ACCORDANCE WITH LOCAL GOVERNING CODES.
- 8. LOW VOLTAGE DEVICES (i.e., SPEAKERS, SECURITY SYSTEM DEVICES, CAMERAS & WIFI ANTENNA'S) ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE FINAL LOCATION, QUANTITY WITH ARCHITECT/OWNER AND EXACT ELECTRICAL REQUIREMENTS WITH SYSTEM VENDOR PRIOR TO ROUGH PER THE SITE CONDITIONS. PROVIDE POWER & DATA OUTLETS AS REQUIRED. ALSO VERIFY OPERABLE CONDITION OF EXISTING LOW VOLTAGE DEVICES (IF ANY), PROVIDE NEW IF FOUND INOPERABLE.
- 'a,b,c,d,e,f DIMMER SWITCHES FOR CONTROL OF SALES
- 'ov' 2-HR OVERRIDE BYPASS SWITCH. ADJUST TO ON/OFF SCHEDULE DIRECTED BY TENANT REPRESENTATIVE.

OMINIDT-100 UVPPM OR EQUAL.

- OS LOW VOLTAGE DUAL TECHNOLOGY CEILING
 MOUNTED OCCUPANCY SENSOR WITH
 UNIVERSAL VOLTAGE POWER PACK HUBBEL
- DIMMING CAPABILITIES (WATTSTOPPER PW-211 OR EQUAL) AT+46" A.F.F. SENSOR "ON"
- OS WALL MOUNTED OCCUPANCY SENSOR
 (WATTSTOPPER PW-201 OR EQUAL) AT+46"
 A.F.F. SENSOR "ON" SETTING TO BE SET TO
- \$ WALL MOUNTED MANUAL 3-WAY TOGGLE SWITCH.
- \$ WALL MOUNTED DIMMER SWITCH

AUTOMATIC IN FIELD.

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS
382 NE 191ST STREET SUITE 49674,
MIAMI, FL 33179
PH-914.257.3455
WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES:
WRITTEN DIMENSIONS HOLD PREFERENCE

OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

DATE ISSUE
02/25/25 CD SET- CLIENT/LL REVIEW
03/24/25 PERMIT SET

DATE REVISION

AX

ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025

PROJECT NUMBER: 12402-25

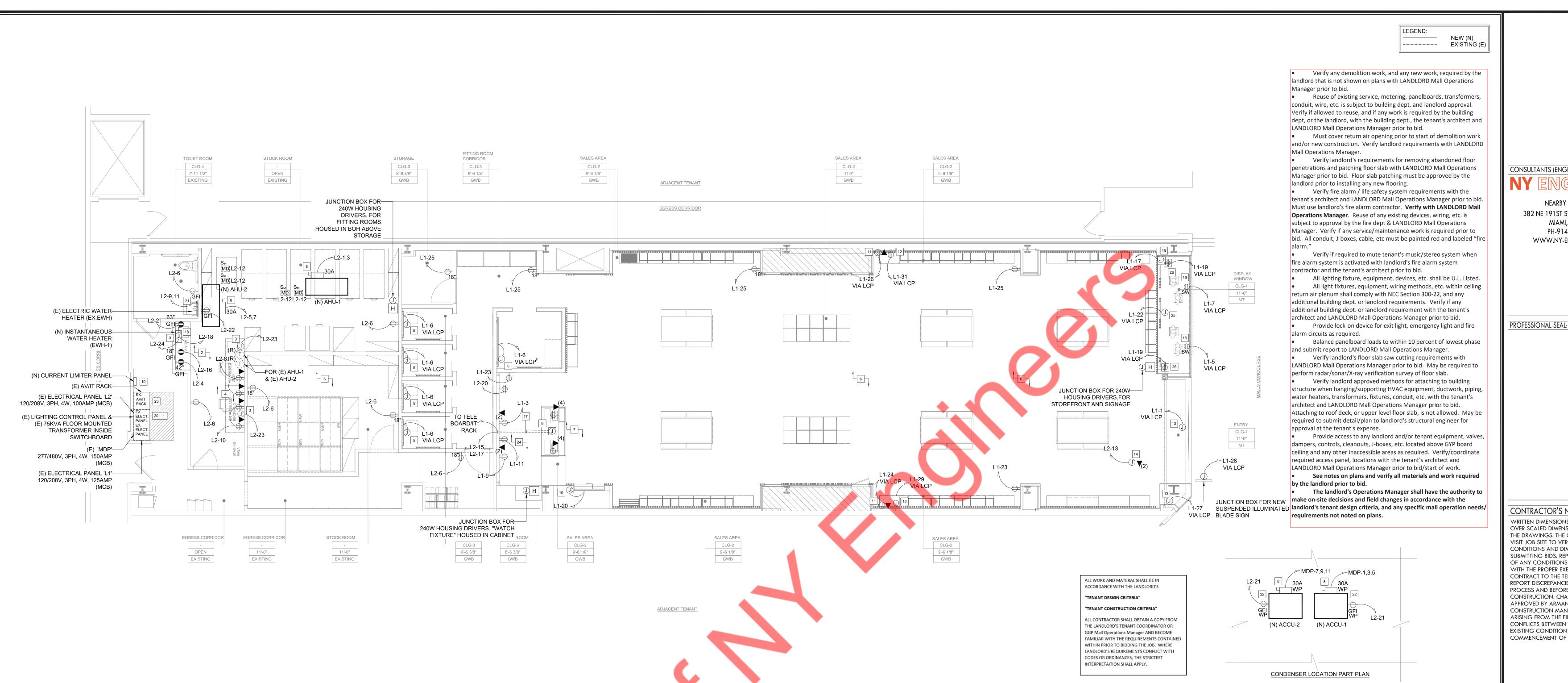
AREA: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE

ELECTRICAL LIGHTING PLAN

SHEET NUMBER:

E2.0



ALL WIRES TO BE COPPER AND IN CONDUIT, INCLUDING LOW VOLTAGE

ELECTRICAL POWER PLAN

GENERAL NOTES

	ll .		Ĺ
	1.	ALL RECEPTACLES IN SALES SHALL BE LOCATED AS SHOWN ON THE POWER PLAN. VERIFY HEIGHT & ADA COMPLIANCE WITH CLIENT & ARCHITECT.	
ı	2.	ALL SWITCHES SHALL BE LOCATED +46" A.F.F. AT CENTER U.O.N.	ĺ

ELECTRICAL LEGEND

SIMPLEX RECEPTACLE @ 18" A.F.F. U.N.O. MOUNTED AT

DUPLEX RECEPTACLE @ 18" A.F.F. U.N.O. MOUNTED AT

QUAD RECEPTACLE @ 18" A.F.F. U.N.O. MOUNTED AT CODE

DATA OUTLET AT +18"A.F.F., U.N.O.; x = 2 (DUPLEX); x=4

TELEPHONE / DATA COMBINATION OUTLET AT +18"A.F.F.,

TELEPHONE / DATA COMBINATION RECEPTACLE - FLOOR

GROUND FAULT PROTECTED DUPLEX RECEPTACLE

DEDICATED GROUND FAULT PROTECTED DUPLEX

SINGLE OUTLET/SPECIAL RECEPTACLE

TELEPHONE OUTLET AT +18"A.F.F., U.N.O.

DUPLEX RECEPTACLE - FLOOR

QUAD RECEPTACLE - FLOOR

DATA RECEPTACLE - FLOOR

DATA RECEPTACLE-CEILING

JUNCTION BOX-CEILING

DUCT SMOKE DETECTOR

JUNCTION BOX-WALL

DISCONNECT SWITCH

ELECTRICAL PANEL.

TELEPHONE RECEPTACLE - FLOOR

DUPLEX RECEPTACLE - CEILING

HOME RUN

RECEPTACLE.

U.N.O.

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4

NO ELECTRICAL DEVICES SHALL BE MOUNTED ON ANY WALLS, OR CEILINGS WITHOUT FIRST DISCUSSING WITH THE ARCHITECT.

- CONTRACTOR TO CONFIRM LOCATION OF WIRING CONNECTION POINT PER EACH UNIT WITH MILLWORK SHOP DRAWINGS. CONTRACTOR TO INFORM THE CLIENT AND THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE APPROVED MILLWORK SHOP DRAWINGS AND THE ELECTRICAL PLANS PRIOR TO START OF WORK. CONTRACTOR TO COORDINATE ELECTRICAL CONNECTIONS WITH MILLWORKER
- PRIOR TO COMMENCEMENT OF ANY DRILLING. ALL FLOOR PENETRATIONS MUST BE SEALED, FIREPROOFED AND PATCHED AS
- CONFIRM ALL TELEPHONE AND DATA CABLE SPECIFICATIONS WITH VENDOR PRIOR TO BID AND START OF WORK. CONTRACTOR TO CONFIRM LOCATION OF ALL T-STATS, SENSORS & SMOKE DUCT
- ALL MILLWORK DRIVERS MUST BE RATED TO COMPLY WITH LOCAL CODE AND

TEST STATION, ETC. WITH MECHANICAL DRAWINGS PRIOR TO WIRING AND

- . DRIVERS QUANTITY PER EACH MILLWORK UNIT TO BE VERIFIED BY MILLWORK VENDOR AND SHOP DRAWINGS. COORDINATE FINAL LOCATIONS AND QUANTITIES
- WITH MILLWORK SHOP DRAWINGS. BASED ON DRIVERS, ACCURATE NUMBER OF J-BOX TO BE ESTIMATED.
- . CONTRACTOR TO MAKE FINAL CONNECTIONS FROM DRIVERS TO J-BOXES PER DRIVER MANUFACTURER REQUIREMENT. CONTRACTOR TO MOUNT/LABEL DRIVERS ON PLYWOOD PANELS.
- 13. CONTRACTOR TO PROVIDE TEMPORARY POWER BOXES DURING CONSTRUCTION.
- 14. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING DURING CONSTRUCTION.
- 5. ALL FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY. COORDINATE WITH FIRE ALARM CONTRACTOR FOR ADDITIONAL INFORMATION.
- 16. XRAY FOR TRENCH/CORING TO BE APPROVED BY LANDLORD.

KEY NOTES

SOUND SPEAKER (AUDIO / MUSIC SYSTEM TO

MOUNTED IN FR.

360 CAMERA

MOTION DETECTOR

LOWER THAN THE LIGHTS)

WIRELESS DOOR CONTACT

OUSING FOR 240W DRIVERS

INDOOR AC UNIT/EXHAUST FAN

FLOOR MOUNTED JUNCTION BOX

(E) - EXISTING; (R) - EXISTING RELOCATED; (C) - CEILING MOUNTED

(F) - FLOOR MOUNTED; (SW)- SHOW WINDOW; (USB) - USB/ DUPLEX

(BC) - BELOW COUNTER/DESK RECEPTACLE: (SL) - SHELF LEVEL

COMBINATION RECEPTACLE; (AC) - ABOVE COUNTER/DESK RECEPTACLE;

MOTOR RATED SWITCH

ALARM KEYPAD

2. ALL OUTLETS TO BE WHITE.

ABBREVIATION:

RECEPTACLE

1. NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.

CONNECTED TO RELAY THAT INTERUPTS AUDIO DURING A

FIRE ALARM ACTIVATION, SEE ELECTRICAL DRAWINGS.

INSTALL PENDANT IN SALES AREA AND SURFACE

SECURITY CAMERA WITH STEM SUPPORT (MUST BE

EXISTING ELECTRICAL PANELS SHALL REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT RATING, VOLTAGE, PHASE, OPERABLE CONDITION IN FIELD. REPLACE WITH NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY. E.C. SHALL MAINTAIN CLEARANCE FOR ELECTRICAL PANEL PER NEC 110.26 (A) (1). REFER SHEET E4.0 ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.

ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING RECEPTACLE IN

PANTRY AREA. REUSE IF POSSIBLE, OTHERWISE PROVIDE NEW AS SHOWN. BASE BID ACCORDINGLY.

JUNCTION BOX FOR UNDER CABINET LIGHTING. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE VENDOR/OWNER FOR EXACT LOCATION & ELECTRICAL REQUIREMENT PRIOR TO ROUGH-IN. BASE BID

POWER & DATA FOR MANAGERS DESK & SHIPPING/RECEIVING. ELECTRICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHT, ELECTRICAL REQUIREMENT & LOCATION WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

JUNCTION BOX FOR FITTING ROOM MIRROR LIGHTING. COORDINATE MOUNTING HEIGHT & POWER REQUIREMENT WITH MILLWORK VENDOR PRIOR TO START OF WORK. BASE BID ACCORDINGLY. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL OUTLET RECEPTACLE COVER PLATE IN THE SALES & BOH AREA PRIOR TO START OF WORK.

POWER AND DATA (2) 4 PORT DATA OUTLETS & (2) QUAD POWER OUTLETS FOR DEVICES IN CASH DESK AND FLOOR BOX/ JUNCTION BOX FOR BACK LIT SYSTEM. COORDINATE LOCATION WITH MILLWORK VENDOR ALL MECHANICAL EQUIPMENT'S SHALL BE PROVIDED WITH THE REQUIRED ROUGH-INS, MOCP, AND WIRE

SIZE REQUIREMENTS. THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH THE MANUFACTURER FOR

THE EXACT TYPE OF ROUGH-INS AND WIRE SIZE PRIOR TO THE COMMENCEMENT OF WORK. BASE BID ROUTE CONDUIT IN OR BENEATH SLAB FOR POWER AND COMMUNICATION TO MILLWORK FIXTURE. RUN CONNECTION TO MILLWORK MOUNTED RECEPTACLES, DATA OUTLETS, AND JUNCTION BOX FOR CASH DESK BACK LIT. COORDINATE FINAL STUB UP LOCATION WITH CONTRACTOR AND MILLWORK VENDOR. JUNCTION BOX FOR DISPLAY LED LIGHTING INSIDE WATCH TOWER/EYEWEAR. ELECTRICAL CONTRACTOR

TO COORDINATE FINAL LOCATION AND EXACT EXACT ELECTRICAL REQUIREMENT WITH VENDOR AND INSTALLER IN THE FIELD PRIOR TO START OF WORK. BASE BID ACCORDINGLY ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX FOR POWER CONNECTION OF UPPER FASCIA LED DISPLAY. COORDINATE FINAL LOCATION AND EXACT ELECTRICAL REQUIREMENT WITH VENDOR AND INSTALLER IN THE FIELD PRIOR TO START OF WORK. BASE BID ACCORDINGLY.

ELECTRICAL CONTRACTOR TO PROVIDE DUPLEX OUTLET AS SHOWN FOR POWER CONNECTION OF VIDEO BANNER. COORDINATE FINAL LOCATION AND EXACT ELECTRICAL REQUIREMENT WITH VENDOR AND INSTALLER IN THE FIELD PRIOR TO START OF WORK. BASE BID ACCORDINGLY. JUNCTION BOX FOR LUMINOUS LOGO WITH TUNABLE LIGHT. PROVIDE ACCESSIBLE J-BOX WITH SERVICE DISCONNECT SWITCH FOR TENANT SIGN. COORDINATE EXACT LOCATION AND ELECTRICAL CONNECTION

REQUIREMENT WITH SIGN VENDOR PRIOR TO START OF WORK. BASE BID ACCORDINGLY. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION AND EXACT LOCATION OF EXISTING EAS AND SHOPPER TRACK SYSTEM, REUSE IF POSSIBLE. OTHERWISE PROVIDE NEW EAS SYSTEM. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENT WITH ARCHITECT/OWNER/VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY. JUNCTION BOX FOR STOREFRONT WINDOW FACADE BACKLIT SYSTEM (AX SIGN). COORDINATE FINAL LOCATION & ELECTRICAL CONNECTION IN THE FIELD WITH GC AND MILLWORK VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE OPERABLE CONDITION OF EXISTING SHOW WINDOW RECEPTACLE, REUSE IF POSSIBLE. OTHERWISE, PROVIDE NEW SHOW WINDOW RECEPTACLE AS PER PLANS AND NEC 210.62 IF REQUIRED.

APPROXIMATE LOCATION OF CONDUIT ROUTE BENEATH CONCRETE SLAB. COORDINATE INSTALLATION ON SITE WITH CONTRACTOR. COORDINATE CORE DRILL REQUIREMENT WITH LANDLORD PRIOR TO START OF TO CEILING THE TO PANEL LOCATION.

WORK. ALL PENETRATION MUST BE SEALED AND FIREPROOF AS REQUIRED. ROUTE TO NEAREST WALL UP NEW INSTANTANEOUS WATER HEATER (EWH-1). COORDINATE EXACT POWER REQUIREMENTS WITH PLUMBING CONTRACTOR/MANUFACTURER SPECIFICATION. BASE BID ACCORDINGLY.

PROVIDE NEW THE BENJAMIN ARCLIGHT TRACK LIGHT LIMITER PANEL CURRENT LIMITER PANEL ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY

ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING LIGHTING CONTROL PANEL, USE IF POSSIBLE. OTHERWISE PROVIDE NEW LIGHTING CONTROL PANEL/ TIMER WITH A OVERRIDE SWITCH AS PER AX STANDARDS. BASE BID ACCORDINGLY

EXISTING WATER HEATER (EX.EWH). ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT OPERABLE CONDITION WITH ARCHITECT/OWNER IN FIELD. VERIFY THE EXACT DISCONNECT SIZE FOR THE WATER HEATER. INFORM ENGINEER IN CASE OF ANY DISCREPANCY. BASE BID ACCORDINGLY.

ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R RATED. IF FACTORY MOUNTED POWERED CONVENIENCE OUTLET NOT PROVIDED, 120V 20A GFI WEATHER PROOF RECEPTACLE SHALL BE PROVIDED WITHIN 25FT OF ALL HVAC EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADD ADDITIONAL RECEPTACLES IF REQUIRED, AS SHOWN.

EXISTING IT/AV RACK. G.C TO PRICE ALT 1:DISCONNECT AND REPLACE WITH NEW IT RACK AND NEW AV RACK, ALT2: CHECK WORKING IN GOOD CONDITIONS.

FOR LEDWALL: (4) CAT6 DATA OUTLETS & (3) 20 AMP CIRCUITS.FINAL HEIGHT AND LOCATION TO BE COORDINATED WITH VENDOR & MILLWORKER PRIOR TO INSTALLATION. BASE BID ACCORDINGLY.

JUNCTION BOX FOR COVE LED LIGHTING. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENT WITH OWNER/ARCHITECT/MILLWORK VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

QUAD POWER UNDER ACCESSIBLE PANEL IN THE PLATFORM FOR ILLUMINATED PROPS. COORDINATE FINAL LOCATION & ELECTRICAL CONNECTION IN THE FIELD WITH GC AND MILLWORK VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS 382 NE 191ST STREET SUITE 49674,

MIAMI, FL 33179

PH-914.257.3455

WWW.NY-ENGINEERS.COM

CONTRACTOR'S NOTES:

WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

02/25/25 CD SET- CLIENT/LL REVIEW 03/24/25 | PERMIT SET

DATE REVISION

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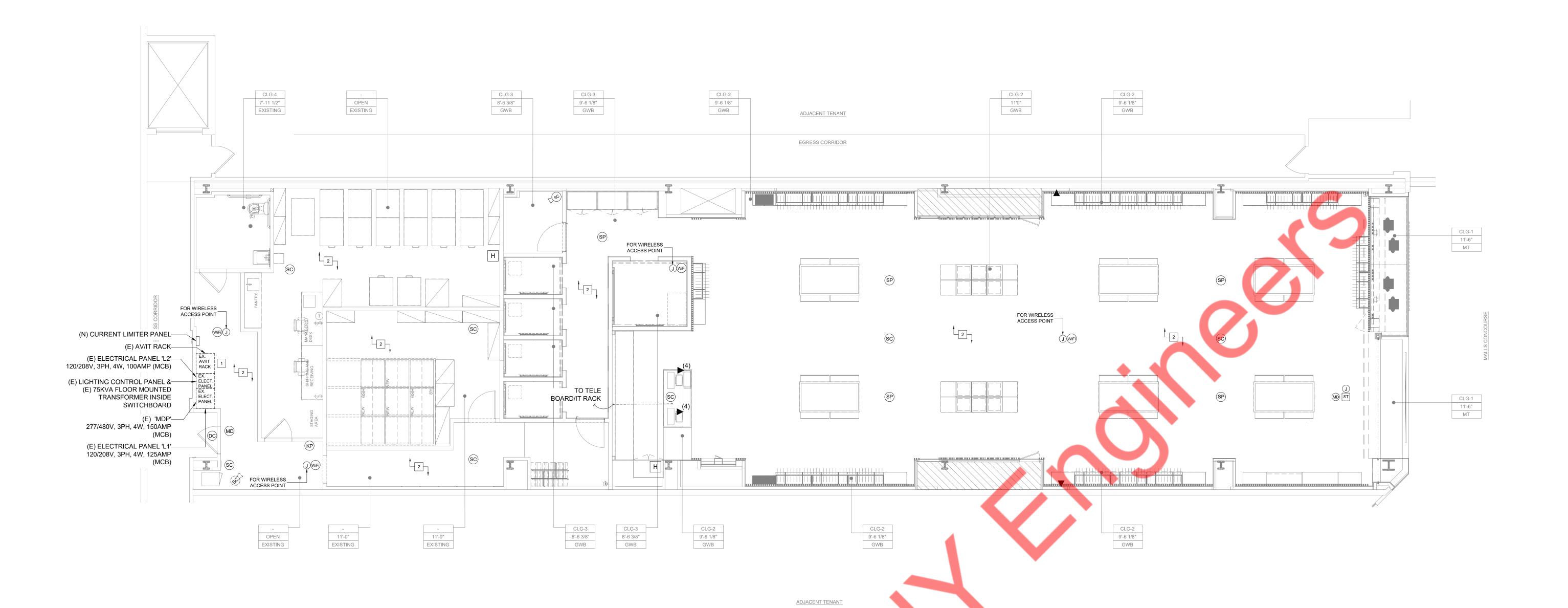
DATE: 01/15/2025

PROJECT NUMBER: 12402-25 AREA: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE

ELECTRICAL POWER PLAN

NEW (N) EXISTING (E)



GC REQUIRED TO ALSO REVIEW SHOP DRAWING SET FOR LED FASCIA AND LEDWALL BEHIND CASHDESK FROM VENDOR.

GC TO PROVIDE CABLING; CCTV, AV & WIFI EQUIPMENT BY GA VENDORS

MD, DC, ARE WIRELESS CAMERAS REQUIRE CAT6 CABLE KEY PAD IS HARD

WIRED 22/4 SECURITY WIRE FROM ALARM SYSTEM TO KEYPAD

ALL MILLWORK DRIVER HOUSING SHOULD BE PLACED PER DRAWING FOR ACCESSIBILITY FOR MAINTENANCE OR MOUNTED ABOVE CEILING WITH AN ACCESS PANEL OR ABOVE MW WALLS WITH A COVER

LOW VOLTAGE PLAN

GENERAL NOTES

1. FOR ALL SECURITY DEVICE. CONTRACTOR TO RUN CONDUIT FROM ALL LOW VOLTAGE DEVICES TO IT RACK AT

- STOCK ROOM (ONE CABLE PER JACK). COORDINATE EXACT REQUIREMENTS WITH VENDORS. 2. CCTV CAMERAS ARE PROVIDED BY CLIENT'S VENDOR. CONTRACTOR TO COORDINATE INSTALLATION.
- 3. CONTRACTOR TO PROVIDE AND INSTALL TWO CAT6 DATA FOR STOPPER TRACK PEOPLE
- 4. CONTRACTOR TO PROVIDE AND INSTALL TWO CAT6 DATA FOR WIFI ROUTER/ANTENNA.CONTRACTOR TO
- COORDINATE INSTALLATION. 5. ALL EXPOSED LOW VOLTAGE WIRE TO BE BLACK.

COUNTER.CONTRACTOR TO COORDINATE INSTALLATION.

"MD" (MOTION DETECTORS), "DC" (DOOR CONTACTS), "GB" (GLASS BREAKERS) ARE WIRELESS. "MD" & CAMERAS WILL NEED A STEM SUPPORT AND MUST BE LOWER THAN THE LIGHTS.

WIFI AP'S NEED TO BE LOWER THAN LIGHTS ON PENDANTS. ALL OPEN CEILING, DUCTWORK, CONDUIT, ETC. TO BE PAINTED BLACK.

ALL MILLWORK DRIVER HOUSING SHOULD BE ABOVE METAL CEILING FOR MAINTENANCE ACCESSIBILITY OR MOUNTED ABOVE WITH AN ACCESS PANEL.

LED SCREEN BANNER NEEDS 5 20AMP CIRCUITS. 1 PER SHORT WALL & 3 FOR THE LONG WALL.PLEASE ALSO REVIEW DRAWING SET FROM VENDOR.

ELECTRICAL LEGEND KEY NOTES

SECURITY CAMERA WITH STEM SUPPORT (MUST BE LOWER THAN THE LIGHTS)

SC 360 CAMERA

WIRELESS DOOR CONTACT

MOTORISED DAMPER

MOTOR RATED SWITCH

ST SHOPPER TRACK

KP ALARM KEYPAD

2. ALL OUTLETS TO BE WHITE.

SHELF LEVEL RECEPTACLE

ABBREVIATION:

HOUSING FOR 240W DRIVERS

INDOOR AC UNIT/EXHAUST FAN

FLOOR MOUNTED JUNCTION BOX

1. NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.

(E) - EXISTING; (R) - EXISTING RELOCATED; (C) - CEILING MOUNTED

(F) - FLOOR MOUNTED; (SW)- SHOW WINDOW; (USB) - USB/ DUPLEX COMBINATION RECEPTACLE; (AC) - ABOVE COUNTER/DESK RECEPTACLE; (BC) - BELOW COUNTER/DESK RECEPTACLE; (SL) -

 \blacktriangleleft_x DATA OUTLET AT +18"A.F.F., U.N.O.; x = 2 (DUPLEX); x=4 (QUAD)

- EXISTING IT/AV RACK. G.C TO PRICE ALT 1:DISCONNECT AND REPLACE WITH NEW IT RACK AND NEW AV RACK, ALT2: CHECK WORKING IN GOOD CONDITIONS. SEE ARCHITECTURAL PLAN FOR MORE INFORMATION.
- SOUND SPEAKER (AUDIO / MUSIC SYSTEM TO BE CONNECTED TO RELAY THAT INTERUPTS AUDIO DURING A FIRE ALARM ACTIVATION, SEE ELECTRICAL DRAWINGS. INSTALL PENDANT IN SALES AREA AND SURFACE MOUNTED IN FR. MD MOTION DETECTOR
 - LOW VOLTAGE DEVICES (i.e., SPEAKERS, SECURITY SYSTEM DEVICES, CAMERAS & WIFI ANTENNA'S) ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE FINAL LOCATION, QUANTITY WITH ARCHITECT/OWNER AND EXACT ELECTRICAL REQUIREMENTS WITH SYSTEM VENDOR PRIOR TO ROUGH PER THE SITE CONDITIONS. PROVIDE DATA OUTLETS AS REQUIRED. ALSO VERIFY OPERABLE CONDITION OF EXISTING LOW VOLTAGE DEVICES (IF ANY), PROVIDE NEW IF FOUND INOPERABLE.

CONSULTANTS (ENGINEER):

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DRAWN BY: NYE REVIEWED BY: NYE

LOW VOLTAGE

PLAN

ELECTRICAL PANEL SCHEDULE AND LOAD SUMMARY **ELECTRICAL PANEL SCHEDULE PANELBOARD** BUS RATING PANEL TYPE EXISTING PANEL NEMA TYPE ENCLOSURE MOUNTING SURFACE CKT. EQT CKT TOTAL | PHASE | TOTAL | BKR. | WIRE | POLE DESCRIPTION WATTS | SIZE | SIZE TAG TAG NO WATTS NO. TAG TAG EXISTING 75KVA TRANSFORMER **NEW HVAC UNIT 'ACCU-1'** FEEDING PANEL 'L1' & 'L2' NEW HVAC UNIT 'ACCU-2' 9 (E) 2,602 11 ALL PHASES TO BE BALANCED TO WITHIN 7% (E) EXISTING TO REMAIN

(N) NEW CIRCUIT

C BREAKER LOCK

GFCI GROUND FAULT CURRENT INTERRUPTER

IG CIRCUITS WITH ISOLATED GROUND

TC CIRCUITS ON TIMECLOCK

EMS ROUTING TO THE EMS PANEL

a,b,c SWITCHES CONTROLLING LIGHTS

PANE	LBOARD			L1	VOLT	AGE	120	/ 208 V	PHASE		3	3	WIRE		4	Г		1
PANE	L TYPE			MCB	MAIN:	S		125A	BUS RAT	NG	12	5A	AIC RA	ATING	V.I.F		1 2	
NEMA	A TYPE ENCL	.OSURE		1	MOUN	ITING	SI	JRFACE	OPTIONS				NOTE		EXISTING PANEL	L		
CKT.	1	CKT	DESCE	RIPTION	POLE	WIRE		TOTAL	PHASE	TOTAL		WIRE	POLE	DESCR	IPTION	CKT	EQT	CI
NO.	TAG	TAG	223.			SIZE	SIZE	WATTS		WATTS	SIZE	SIZE		2200.1		TAG	TAG	N
1	LCP	(N)		RONT SIGN	1	12	20	1,200	Α	500	20	12	1	LIGHTING CON		(N)		
3		(N)		WALL	1	12	20	500	В		20		1	SP#		(E)		
5	LCP	(N)	SHOW WIND	OW OUTLETS	1	12	20	1,600	С	550	20	12	1	FITTING ROOM N	MIRROR LIGHTS	(N)	LCP	
7	LCP	(N)	SHOW WIND	OW OUTLETS	1	12	20	1,400	Α	300	20	12	1	SALES AREA FO	CUS LIGHTING	(N)	a/LCP	
9		(N)	LED '	WALL	1	12	20	500	В	620	20	12	1	SALES AREA	TRACKLIGHT	(N)	b/LCP/CLP	
11		(N)	LED '	WALL	1	12	20	500	С	720	20	12	1	SALES AREA	TRACKLIGHT	(N)	c/LCP/CLP	
13	LCP/CLP	(N)	STOREFRONT	TRACKLIGHT	1	12	20	240	Α	720	20	12	1	SALES AREA	TRACKLIGHT	(N)	d/LCP/CLP	
15		(E)	EXISTING BO	OH LIGHTING	1	12	20	1,200	В	720	20	12	1	SALES AREA	TRACKLIGHT	(N)	e/LCP/CLP	
17	LCP	(N)	STOREFRO	NT A X SIGN	1	12	20	1,200	С	350	20	12	1	SALES AREA FO	CUS LIGHTING	(N)	f/LCP	
19	LCP	(N)	REC_ILLUMIN	NATED PROPS	1	12	20	720	Α	100	20	12	1	EYEWEAR/WAT	CHES DISPLAY	(N)	LCP	
21	LCP	(N)	STOREFRONT F	OCUS LIGHTING	1	12	20	300	В	500	20	12	1	STOREFRONT	COVE LIGHT	(N)	LCP	
23		(N)	SALES AREA	RECEPTACLE	1	12	20	720	C	1,500	20	12	1	UPPER FA	SCIA LED	(N)	LCP	
25		(N)	SALES AREA	RECEPTACLE	1	12	20	720	Α	1,500	20	12	1	UPPER FA	SCIA LED	(N)	LCP	
27	LCP	(N)	STOREFR	ONT LOGO	1	12	20	1,200	В	1,200	20	12	1	ILLUMINATED	BLADE SIGN	(N)	LCP	
29	LCP	(N)	VIDEO	BANNER	1	12	20	1,200	С		20		1	SP/	\RE			
31	LCP	(N)	VIDEO	BANNER	1	12	20	1,200	Α		20		1	SP/	\RE			
33			SP.	ARE	1		20		В		20		1	SP/	\RE			
35			SP.	ARE	1		20		С		20		1	SP/	\RE			;
37			SP.	ARE	1		20		Α		20		1	SP/	\RE			
39			SP.	ARE	1		20		В		20		1	SP/	\RE			-
41			SP	ARE	1		20		C		20		1	SP <i>F</i>	\RE			4
ALL F	PHASES TO	BE BAL	ANCED TO WITHIN	l 7%						(E)	EXIST	ING TO	REMA	AIN				
Α=	8,600			WATTS						(N)	NEW (CIRCUI	Т					
B=	6,740			WATTS						GFCI	GROU	ND FA	ULT C	JRRENT INTERRU	PTER			
C=	8,340			WATTS						IG	CIRCL	JITS W	ITH IS	DLATED GROUND				
										CLP	CURR	ENT LI	MITER	PANEL				
										LCP	LIGHT	ING C	ONTRO	L PANEL				
TOT 4	L CONNECT	ED I OA	n	23,680	WATI			66	AMPS		BREA							

PANE	LBOAR	RD		L2	VOLT	AGE	120	/ 208 V	PHASE		;	3	WIRE		4			$\overline{\neg}$
PANE	L TYPE	:		MCB	MAIN	s		100A	BUS RAT	ING	12	5A	AIC R	ATING	V.I.F	1	2	:
NEMA	TYPE	ENCLO	SURE	1	MOU	NTING	SI	JRFACE	OPTIONS				NOTE		EXISTING PANEL			_
CKT.	EQT	СКТ	DESCR	IPTION	POLE	WIRE	BKR.	TOTAL	PHASE	TOTAL	BKR.	WIRE	POLE	DECC	RIPTION	CKT	EQT	- C
NO.	TAG	TAG	DESCR	IFTION		SIZE	SIZE	WATTS		WATTS	SIZE	SIZE		DESC	KIPTION	TAG	TAG	i N
1		(F)	NIENA (I IV / A C)	LINUT IALULIAI		10	15	728	Α	360	20	12	1	PANTR	Y OUTLET	(N)		T
3		(E)	NEW HVAC	UNII AHU-I	2	12	15	728	В	1,200	20	12	1	MICR	ROWAVE	(N)		
5		(E)	NEW HVAC	יב ווער דוועו	2	12	15	520	С	360	20	12	1	BOH & RESTROOM	AREA RECEPTACLE	(N)		Т
7		(-)	NEW HVAC	DNIT AHO-Z		'2	13	520	Α	720	20	12	1	MANAGERS'S D	ESK RECEPTACLE	(N)		
9		(E)	EXISTING WA	TER HEATER	2	10	30	1,800	В	720	20	12	1	SHIPPING & RECE	EVING RECEPTACLE	(N)		
11			(EX.E					1,800	С	500	20	12	1		ORISED DAMPERS	(N)		
13		(N)	SENSOR MA		1	12	20	500	Α	360	20	12	1		RACK	(N)		
15	IG	(N)	CASHWRAP F		1	12	20	360	В	700	20	12	1		IGERATOR	(N)		
17	IG	(N)	CASHWRAP F		1	12	20	360	С	3,600	30	10	1		ATER HEATER	(N)		
19		(N)	INVERTE	<u> </u>	1	12	20	720	Α	360	20	12	1		GING DEVICES	(N)		
21		(E)	HVAC_I		1	12	20	360	В	200	20	12	1		R COOLER	(N)		
23		(N)		IET LIGHTING	1	12	20	750	С	360	20	12	1			(N)/GFCI		
25				ARE	1		20		A		20		1		PARE			
27				ARE	1		20		В		20		1		PARE			
29				ARE	1		20		C		20		1		PARE			
31				ARE	1	-	20		A		20		1		PARE			Ţ
33				ARE	1	-	20		В		20		1		PARE			
35				ARE ARE	1 1	-	20 20		C		20		1		PARE PARE			+
37						-	20		A B		20		-					+
39 41				ARE ARE	1	-	20		C		20		1		PARE PARE			+
	HΔSES	S TO RE	BALANCED TO V		'		20			(F)	EXIST	ING TO			FAIL		l	
A=	4,268	, 10 DE		WATTS							NEW (All V				
	•									٠,				LIDDENT INTERPLED	TED			
B=	6,068			WATTS										URRENT INTERRUP	TER			
C=	8,250			WATTS			,			IG	CIRCL	JITS W	ITHIS	OLATED GROUND				
										CLP	CURR	ENT LI	MITER	PANEL				
										LCP	LIGHT	TING C	ONTRO	DL PANEL				
TOTA	L CON	VECTE	LOAD	18,586	WAT	ГS		52	AMPS	С	BREA	KER LO	оск					
ΤΩΤΔ	I DEM	AND LO	ΔΩ	18,586	WAT			52	AMPS	aho	SWIT	CHES	CONTR	OLLING LIGHTS				

PANEL SCHEDULE GENERAL NOT	ES:

RISER KEY NOTES

GOOD CONDITIONS.

A= 18,515

B= 18,455

C= 22,237

TOTAL CONNECTED LOAD

TOTAL DEMAND LOAD

- ALL CIRCUITING SHOWN IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING OF THE EXISTING DEVICES ON FIELD AND INFORM ENGINEER FOR DISCREPANCIES.
- ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.
- ALL EXISTING TO REMAIN ELECTRICAL DEVICES/EQUIPMENTS SHALL BE CONNECTED TO RESPECTIVE NEW/EXISTING PANELS. E.C. TO VERIFY EXACT DETAILS & CIRCUIT NUMBER ON FIELD.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH THE MANUFACTURER OF EQUIPMENT FOR THE WIRE SIZE & RATING OF MOCP BEFORE THE COMMENCEMENT OF WORK.
- 5. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENT OF PLUMBING/MECHANICAL EQUIPMENTS WITH RESPECTIVE SYSTEM CONTRACTOR/OWNER/ARCHITECT.

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LANDLORD/OWNER FOR EXACT POWER DISTRIBUTION. LOCATION PRIOR TO

EXISTING 150A (MCB), 277/480V, 3-PHASE, 4-WIRE "MDP" TO REMAIN, ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION

EXISTING 125A (MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "L1" TO REMAIN. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE

EXISTING 100A (MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "L1" TO REMAIN. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE

ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING LIGHTING CONTROL PANEL, REUSE IF POSSIBLE.

EXACT LOCATION AND ELECTRICAL REQUIREMENT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

OTHERWISE PROVIDE NEW LIGHTING CONTROL PANEL/ TIMER WITH A OVERRIDE SWITCH AS PER AX STANDARDS. BASE BID ACCORDINGLY.

PROVIDE NEW BENJAMIN ARCLIGHT TRACK LIGHT LIMITER PANEL CURRENT LIMITER PANEL. ELECTRICAL CONTRACTOR TO COORDINATE

EXISTING IT/AV RACK. G.C TO PRICE ALT 1:DISCONNECT AND REPLACE WITH NEW IT RACK AND NEW AV RACK, ALT2: CHECK WORKING IN

COMMENCING ANY WORK. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.

OPERABLE CONDITION OF THE PANEL. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

OPERABLE CONDITION OF THE PANEL, REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

OF THE PANEL, REPLACE IF FOUND INOPERABLE, BASE BID ACCORDINGLY.

6. E.C. SHALL VERIFY THE EXACT CIRCUIT, CIRCUIT NUMBER IN FIELD & ADJUST / MODIFY CIRCUITING AS REQUIRED.

EXISTING PANELBOARD KEYED NOTE: | # |

NEW BREAKERS MAY BE REQUIRED FOR USE IN THE EXISTING PANELBOARD TO MATCH RATING INDICATED IN THE PANEL SCHEDULE. PRIOR TO BID/PRICING, THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING-TO-REMAIN PANELBOARD MANUFACTURER AND MODEL NUMBER TO ENSURE THAT REPLACEMENT BREAKERS ARE AVAILABLE. WHERE BREAKER AVAILABILITY ISSUES ARISE, NOTIFY THE PROJECT MANAGER PRIOR TO BID/PRICING.

TOTAL DEMAND LOAD

DESIGNATED CIRCUIT NUMBER SHOWN ON THE PANEL SCHEDULE FOR A CERTAIN LOAD, MAY BE DIFFERENT THAN THE ACTUAL CIRCUIT NUMBER IN THE EXISTING PANELBOARD. ALL EXISTING-TO-REMAIN ELECTRICAL LOADS SHALL REMAIN CONNECTED TO THE SAME BREAKER AND CIRCUIT DESIGNATION. AVAILABLE SPARES AND SPACES SHALL BE UTILIZED TO FEED THE NEW LOADS.

CODE NOTE PER NEC 408.4: EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION panelboards, transformers, conduit, wire, etc. is SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. CIRCUIT DIRECTORY subject to building dept. and landlord approva SHALL BE LOCATED ON THE FACE OR INSIDE THE PANEL DOOR IN Verify if allowed to reuse, and if any work is THE CASE OF THE PANELBOARD. required by the building dept, or the landlord,

a,b,c SWITCHES CONTROLLING LIGHTS

CONTRACTOR TO VERIFY ANY EXISTING CIRCUITS TO REMAIN, MAINTAIN AS REQUIRED. CONTRACTOR TO MAKE UNUSED BRANCH CIRCUIT BREAKER SPARE AND AVAILABLE FOR NEW CIRCUIT. ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2022 CALIFORNIA

COMPLIANCE CODE 2022 (TITLE 24) ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY

ELECTRICAL CODE (CEC-2020), AND CALIFORNIA ENERGY

THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED

ELECTRICAL LOAD SUMMARY | VOLT | PHASE | NEC DEMAND FACTOR **NEC DEMAND kW** 3.4 120 1 1.25 10.8 LUMINATED BLADE SIGN CK LIGHTS TRACK LENGTH ECEPTACLES 120 1 >10kW=10+[0.5*(kW-STOREFRONT SIGN 120 /W OUTLETS 208 1 2.5 PANTRY EQUIPMENT 120 1 480 3 16.9 EXISTING HOT WATER HEATER 208 1 INSTANEOUS HOT WATER HEATER 3.6 59.2 64.5 * USE GREATER VALUE OF THE TWO CATEGORIES. ** 125% OF THE LARGEST MOTOR OR COMPRESSOR IN SYSTEM APPLIED ONLY ON ONE UNIT. *** N.E.C. ARTICLE 220-12 REQUIREMENT (200 VA PER FOOT OF SHOW WINDOW) MINUS ACTUAL SHOW WINDOW LIGHTING KVA. N.E.C. DEMAND kVA x 1,000 MINIMUM FEEDER AMPERAGE SYSTEM VOLTAGE x 1.732

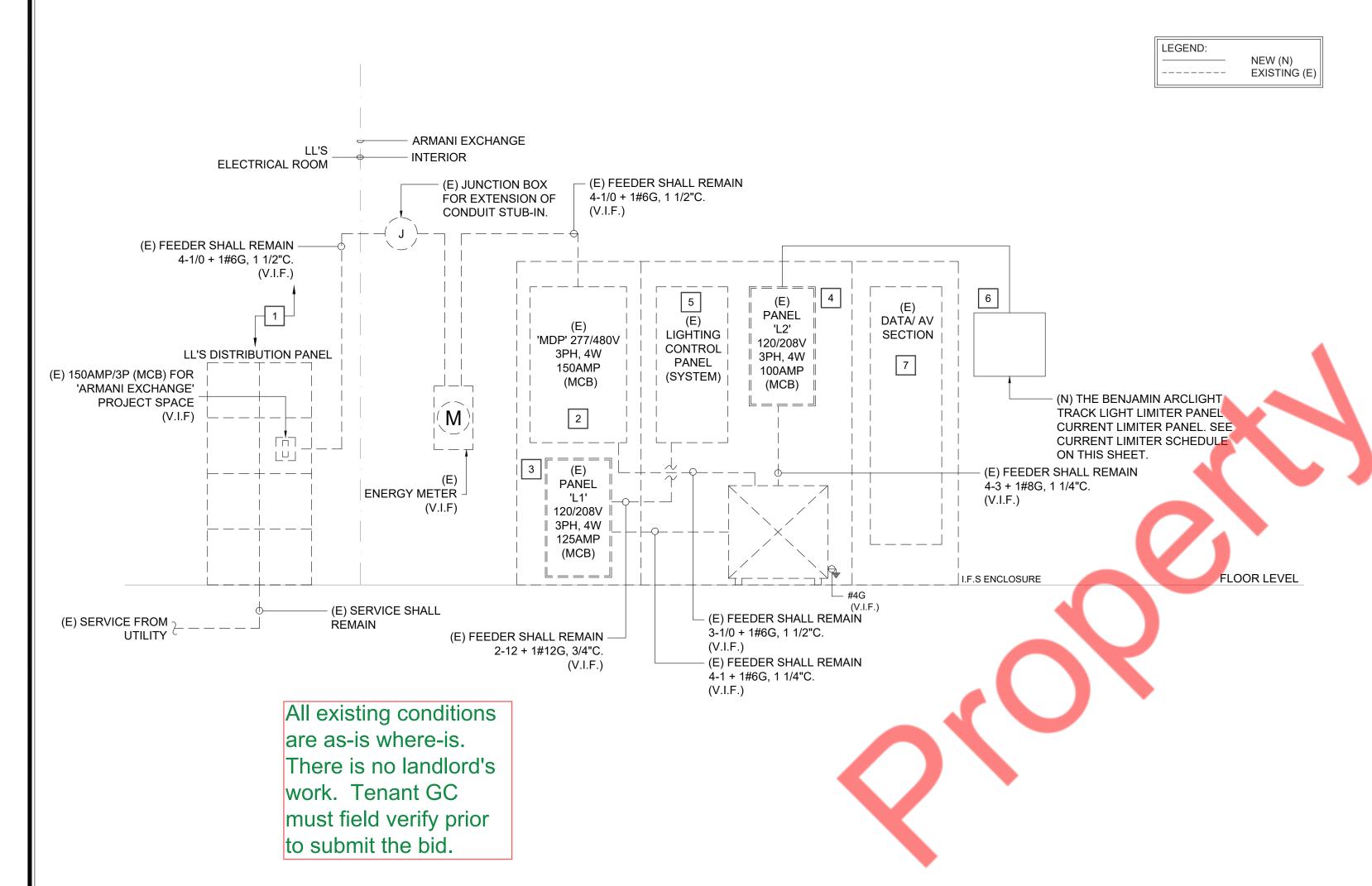
<u>x 1000 =</u> 77.5 AMPS USE (EXISTING) 150AMP FEEDER x 1.732 =

ELECTRICAL RISER DIAGRAM

WATTS

WATTS

64,462 WATTS



RISER DIAGRAM NOTES: A. HVAC CIRCUIT BREAKERS TO BE "HACR" TYPE WHERE

HEALTH ADMINISTRATION

B. BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT, UNDER LOAD CONDITIONS, TO ±7% BETWEEN PHASES: A/B, B/C, C/A REGARDLESS OF CIRCUITING INDICATED. PROVIDE BALANCE SHEET TO CONSTRUCTION MANAGER AT

REQUIRED BY EQUIPMENT NAMEPLATE PER N.E.C.

- PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER N.E.C. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM/AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
- D. MAKE ALL FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM. ALL CONNECTIONS/DISCONNECTIONS TO LANDLORDS/UTILITIES SERVICE EQUIPMENT SHALL BE AS DIRECTED BY ANDLORDS/UTILITIES SITE REPRESENTATIVE. TENANT GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL
- SYSTEM SHALL BE GROUNDED TO THE MAIN BUILDING'S GROUNDING SYSTEM.

TERMINATION/DETERMINATION EXPENSES.

- SCONNECT SWITCHES AND PANELS SHALL BE INSTALLED ON PLYWOOD BACKERBOARDS.
- H. TENANT CONTRACTOR MUST VERIFY ELECTRICAL SERVICE, SUB-FEED WIRING AND PANELS PRIOR TO START OF TENANT'S ELECTRICAL WORK. TENANT GENERAL CONTRACTOR SHALL MAKE APPLICATION TO THE LOCAL UTILITY FOR CONTINUED METERED ELECTRIC SERVICE IN THE TENANT'S NAME. TENANT GENERAL CONTRACTOR SHALL CONFIRM ALL LOCAL UTILITY GUIDELINES AND REQUIREMENTS PRIOR TO BID, SHALL INCLUDE THE COSTS OF THESE REQUIREMENTS IN THE BID, AND SHALL COMPLY WITH THEM DURING CONSTRUCTION. AVAILABLE FAULT CURRENT AT SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER NATIONAL ELECTRICAL CODE ARTICLE 110.24.
- I. CONTRACTOR SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
- J. CONTRACTOR SHALL COORDINATE WITH BASE BUILDING FOR THE EXACT LOCATION OF THE EXISTING SWITCH GEAR AND EXACT POWER DISTRIBUTION .
- K. CONTRACTOR SHALL VERIFY OPERABLE CONDITION INFIELD OF ALL EXISTING TO REMAIN ELECTRICAL DEVICES/EQUIPMENTS AND REPLACE WITH NEW IF FOUND

VERIFY THE FOLLOWING PRIOR TO BID/ PRICING:

EXISTING METER.

- EXISTING CONDUIT AND FEEDERS SIZE BETWEEN TENANT SPACE AND LANDLORD SWITCHBOARD. EXISTING MAIN SERVICE DISCONNECT RATING.

IF THE EXISTING SERVICE DISCONNECT AND FEEDERS ARE RATED FOR LESS THAN THE RATING SHOWN ON THIS RISER. NOTIFY THE PROJECT MANAGER AND ENGINEER IMMEDIATELY PRIOR TO SUBMITTING BID/ PRICING PACKAGE SO DRAWINGS CAN BE REVISED AND UPDATED ACCORDINGLY

ELECTRICAL WORK BEING SHOWN IN SCHEMATIC IS EXISTING UNLESS OTHERWISE NOTED.

CONTRACTOR TO VERIFY EXISTING CONDUIT DURING BIDDING STAGE AND REPORT TO TENANT ARCHITECT ANY DISCREPANCIES THAT IS DIFFERENT THAN SHOWN ON PLANS.

CONTRACTOR TO PROVIDE NEW NAME PLATE ON ELECTRICAL METER FOR IDENTIFICATION.

LCP & CURRENT LIMITER PANEL SCHEDULE

Reuse of existing service, metering,

with the building dept., the tenant's architect and

LANDLORD Mall Operations Manager prior to bid.

be by a landlord approved electrical contractor a

the tenant's expense.

Any work outside of tenant's space shall

LIGI	HTING CONTR	OL RELAY PANEL SCHED	7111					BENJ	_ T.
	T	<u>-</u>	JUL		ON			DEINS	
CHANNEL	CIRCUIT .NO	LOAD NAME	4		ON	_	_		
			1	2	3	4	5	CHANNEL	(
1	L1-1	STOREFRONT SIGN	Х						
2	L1-13	STOREFRONT TRACKLIGHT	Χ					1	_
3	L1-5	S/W OUTLETS	Х						-
4	L1-7	S/W OUTLETS	Х					2	
5	L1-17	STOREFRONT AX SIGN	Х						_
6	L1-19	ILLUMINATED PROPS	Х					3	
7	L1-21	STOREFRONT AX FOCUS LIGHTS	Х					4	_
8	L1-27	STOREFRONT LOGO	Х						-
9	L1-28	ILLUMINATED BLADE SIGN	Х					5	
10	L1-22	STOREFRONT COVE LIGHTS	Х					6 7	_
11	L1-24	UPPER FASCIA LED		Х				8	_
12	L1-26	UPPER FASCIA LED		Х				9	_
13	L1-6	FITTING RM LIGHTS		Х				10	_
14	L1-8	SALES AREA FOCUS		Х				11	_
		LIGHTS SALES AREA FOCUS						12	
15	L1-18	LIGHTS		Х				16	_
16	L1-20	EYEWEAR DISPLAY		Х				* WATTAGE TO IN	4
17	L1-29	VIDEO BANNER		Х					
18	L1-31	VIDEO BANNER		Х					
19	L1-10	SALES AREA TRACKLIGHTS			Х				
20	L1-12	SALES AREA TRACKLIGHTS			Х				
21	L1-14	SALES AREA TRACKLIGHTS			Х				
22	L1-16	SALES AREA TRACKLIGHTS			Х				
ZONE	DESCRPITION								
1	TIME SCHED	ULE ON/OFF. COORDINATE V PROGRAMMING SCHEDU		I OV	/NEF	RFO	R		
2	OF/OFF/DIM. (C) TIME SCHED	DULE AUTO 50% ON. (B) OPT DULE AUTO OFF WITH OPTION MASTER SWITCH					FOR		

TIME CLOCK SCHEDULE: CONTRACTOR TO SET TIME CLOCK SETTINGS AND VERIFY WITH OWNER/ GA OPERATIONS:

. LIGHTING SHALL BE "ON" DAILY FROM 8:00AM TO 11:00PM. DURING SET "OFF" TIME LIGHTING TO BE CONTROLLED BY A 2-HR

MANUAL OVERRIDE SWITCH.

JAMIN ARCLIGHT CURRENT LIMITING PANEL SCHEDULE **BREAKER** *VA (WATTAGE) LOAD NAME CIRCUIT .NO REQUIRED (AMPERAGE STOREFRONT L1-13 240 TRACKLIGHT SALES AREA L1-10 620 TRACKLIGHTS SALES AREA 720 L1-12 TRACKLIGHTS SALES AREA L1-14 720 TRACKLIGHTS SALES AREA L1-16 720 TRACKLIGHTS --

NCLUDE 1.25% NEC FACTOR

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS 382 NE 191ST STREET SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL

CONTRACTOR'S NOTES: WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF

CONSTRUCTION. CHANGE ORDERS NEED TO BE

APPROVED BY ARMANI EXCHANGE

CONSTRUCTION MANAGER FOR ISSUES

EXISTING CONDITIONS PRIOR TO THE

COMMENCEMENT OF WORK.

ARISING FROM THE FIELD CONDITIONS OR

CONFLICTS BETWEEN THE PLANS AND THE

02/25/25 CD SET- CLIENT/LL REVIEW 03/24/25 | PERMIT SET

DATE REVISION

ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION: DATE: 01/15/2025

PROJECT NUMBER: 12402-25 AREA: 4,440 SQ. FT. DRAWN BY: NYE REVIEWED BY: NYE

ELECTRICAL

PANELBOARD AND RISER DIAGRAM SHEET NUMBER:

ENERGY ANALYSIS

Indoor Lighting

Area Description

Sales Area

Back Of House

This document is used to demons	trate compliance with requirements in 1	10.9, 110.12(c), 130.0, 130.1, 140.6 and 14	1.0(b)2 for indoor ligh	ting scopes using the prescrip	tive path for
•	•	compliance with requirements in 160.5, 170	.2(e) and 180.2(b)4 fo	or indoor lighting scopes using	the prescriptive
	Multifamily includes dormitory and sen				
Project Name: AX_		Report Page:		2025.02	(Page 1 of
Project Address:		Date Prepared:		2025-02-	27T01:38:44-05:0
A. GENERAL INFORMATION					
01 Project Location (city)	Glendale	04 Total Condition	ned Floor Area (ft²)	4,440	
02 Climate Zone	9	05 Total Uncondit	ioned Floor Area (ft²)	0	
03 O	ect (select all that apply):	06 # of Stories (H.	abitable Above Grade) 1	
• Retail	ou (sereet all trut appriy).	co ii ci stones (iii			
• Retail B. PROJECT SCOPE This table includes any lighting sy 141.0(b)2 / 180.2(b)4 for alteration	stems that are within the scope of the p	ermit application and are demonstrating co	ompliance using the p		
• Retail B. PROJECT SCOPE This table includes any lighting sy 141.0(b)2 / 180.2(b)4 for alteration	stems that are within the scope of the pons.	ermit application and are demonstrating co	ompliance using the p	rescriptive path outlined in 140	
• Retail B. PROJECT SCOPE This table includes any lighting sy 141.0(b)2 / 180.2(b)4 for alteration Science S	stems that are within the scope of the pons.	ermit application and are demonstrating co	ompliance using the p	rescriptive path outlined in 140 Unconditioned Sp	paces
• Retail B. PROJECT SCOPE This table includes any lighting sy 141.0(b)2 / 180.2(b)4 for alteration Science S	stems that are within the scope of the pons. cope of Work 01	ermit application and are demonstrating co Conditioned Spac	ompliance using the p	rescriptive path outlined in 140 Unconditioned Sp 04	oaces 05
• Retail B. PROJECT SCOPE This table includes any lighting sy 141.0(b)2 / 180.2(b)4 for alteratic Solution My Project Cons	stems that are within the scope of the pons. cope of Work 01 ists of (check all that apply):	ermit application and are demonstrating co Conditioned Spac 02 Calculation Method	es O3 Area (ft²)	rescriptive path outlined in 140 Unconditioned Sp 04 Calculation Method	05 Area (ft²)

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 261288-0225-0007
	Schema Version: rev 20220101	Report Generated: 2025-02-26 22:38:47
STATE OF CALIFORNIA		

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	·	·		·					NRCC-LTI-E
Project Name: AX_			Re	port Page:					(Page 5 of 8)
			Da	te Prepared:				2025-02-27T0	1:38:44-05:00
H. INDOOR LIGHTING CON	FROLS (Not including PAFs)								
Area Level Controls									
04	05	06	07	08	09	10	11	1	.2
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d)/	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A		spector
					160.5(b)4D	(,		Pass	Fail
Sales Area	Retail	Auth. Personnel	Dimmer	Auto. Time Switch	NA: Not	NA: Not	No		

Jaies Alea	netan	Personnel	Diffiller	Adto. Time Switch	daylit zone	daylit zone]
Back Of House	Retail	Auth. Personnel	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
							13		
						Plan Sheet	t Showing Da	ylit Zones:	
I. LIGHTING POWER ALLOWA	NCE: COMPLETE BUILDING C	R AREA CATEG	ORY METHOD	S			_		
Each area complying using the C 140.6(c) or adjustments per 140		ory Methods per	140.6(b) are incl	uded in this table. Colu	mn 06 indica	tes if additior	nal lighting po	ower allowan	ces per

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 261288-0225-0007 Report Gererated: 2025-02-26 22:38:47

 02
 03
 04
 05
 06

 Complete Building or Area Category Primary Function Area
 Allowed Density (W/ft²)
 Area (ft²)
 Allowed Wattage (Watts)
 Additional Allowance / Adjustment

 Retail
 0.9
 3,002
 2,701.8
 No
 No

 Retail
 0.9
 1,400
 1,260
 No
 No

 TOTALS:
 4,402
 3,961.8
 See Tables J, or P for detail

STATE OF CALIFORNIA Indoor Lighting	•											FORMIA FAIFROY 22	011
CERTIFICATE OF COMPI											CALI	FORNIA ENERGY COMMISSION NRCC-LT	
Project Name: AX						Repo	rt Pa	ge:				(Page 2 of	
						Date	Prepa	ared:				2025-02-27T01:38:44-05:	:00
C CONADULANCE DE	CLUTC												_
C. COMPLIANCE RE		NOT COMPLY"	or "COMPLIES	with Exception	al Coi	nditions" refe	r to 7	Table D. for au	idance.				
, any cen en tine tae			Power per 140.							er 14	0.6(a) / 170.2(e)	Compliance Results	
Lighting in	01	02	03	04	, (vva	05	'	06	(Watt	5)	08	09	
conditioned and	01	02	Area	04	 	05	1	06	Adjustmen	s	08		
unconditioned spaces must not be	Complete	Area	Category	Tailored			≥	Total	PAF Lightin	g	Total Adjusted		
combined for	Building	Category 140.6(c)2 /	Additional 140.6(c)2G /	140.6(c)3 / 170.2(e)4B	=	Total Allowed		Designed	Control Cred 140.6(a)2		(Watts)	05 must be >= 08	
compliance per 140.6(b)1 / 170.2(e)	140.6(c)1	170.2(e)4	170.2(e)4Av	(+)		(Watts)		(Watts)	170.2(e)18		*Includes Adjustments	140.6 / 170.2(e)	
	(See Table I)	(See Table I)	(+) (See Table I)	(See Table K)				(See Table F)	(-) (See Table I)			
Conditioned	3,961.8	(222 12.22 17	(000 1000)	(222 1222 13)	=	3,961.8	≥	3,865	(======================================	=	3865	COMPLIES	
Unconditioned					=		≥			=		00140150	
						Rat	ed Po				Table H for Detail		
						nat				,	2.5. Detail	1	
D. EXCEPTIONAL CO	ONDITIONS												
This table is auto-fille						ta entered in	table	s throughout i	the form.				
Frack Lighting has be	en included in t	this project, de	etails are provi	ded in Table G									
													_
E. ADDITIONAL REI													
This table includes re	marks made by	the permit ap	pplicant to the	Authority Havi	ng Ju	risdiction.							
CA Building Energy Effi	iciency Standard	s - 2022 Nonres	idential Complia	ince		Generated Da Report Versioi Schema Versio	, n: 202	22.0.000			Co	tation Software: Energy Code Ac ompliance ID: 261288-0225-000 Generated: 2025-02-26 22:38:4	07
CA Building Energy Effi	iciency Standard:	s - 2022 Nonres	idential Complia	ince		Report Version	, n: 202	22.0.000			Co	ompliance ID: 261288-0225-000	07
STATE OF CALIFORNIA		s - 2022 Nonres	idential Complia	ince		Report Version	, n: 202	22.0.000			Co Report	ompliance ID: 261288-0225-000 Generated: 2025-02-26 22:38:4	07 47
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01	02	03	04 Small	05	06	07	08 Excluded per	09		10 nspecto
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Aperture &	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fa
L1	Track Light	Yes	NA	120	See Other Section	1	No	120		
L2	Track light	Yes	NA	2,025	See Other Section	1	No	2,025		-
S1	LED PROJECTOR	No	NA	9.5	Mfr. Spec	60	No	570		
D	6" Recessed light fixture	No	NA	12	Mfr. Spec	15	No	180		
G (E)	Existing Light	No	NA	42	Mfr. Spec	20	No	840		
E3	Existing Restroom Light	No	NA	10	Other	1	No	10		
E	BACKLITE-LINE LED PANEL	No	NA	30	Mfr. Spec	4	No	120		
					Total Design	ed Watts: CONI	DITIONED SPACES	3,865		
CA Building Ene	ergy Efficiency Standards - 2022 N	Ionresidential Cor	npliance	Report	ated Date/Time: : Version: 2022.0.000 a Version: rev 20220			Documentation So Complian Report Genera	ce ID: 26128	8-0225-0
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Report Version: 2022.0.000 Schema Version: rev 20220101 Documentation Software: Energy Code Ace

Compliance ID: 261288-0225-0007 Report Generated: 2025-02-26 22:38:47

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Generated Date/Time:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Documentation Software: Energy Code Ace

Compliance ID: 261288-0225-0007 Report Generated: 2025-02-26 22:38:47 CONSULTANTS (ENGINEER):

NEARBY ENGINEERS

382 NE 191ST STREET SUITE 49674,

MIAMI, FL 33179

PH-914.257.3455

WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES: WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE

COMMENCEMENT OF WORK.

03/24/25	PERMIT SET

△ DATE REVISION



LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025

PROJECT NUMBER: 12402-25

PROJECT NUMBER: 12402-25

AREA: 4,440 SQ. FT.

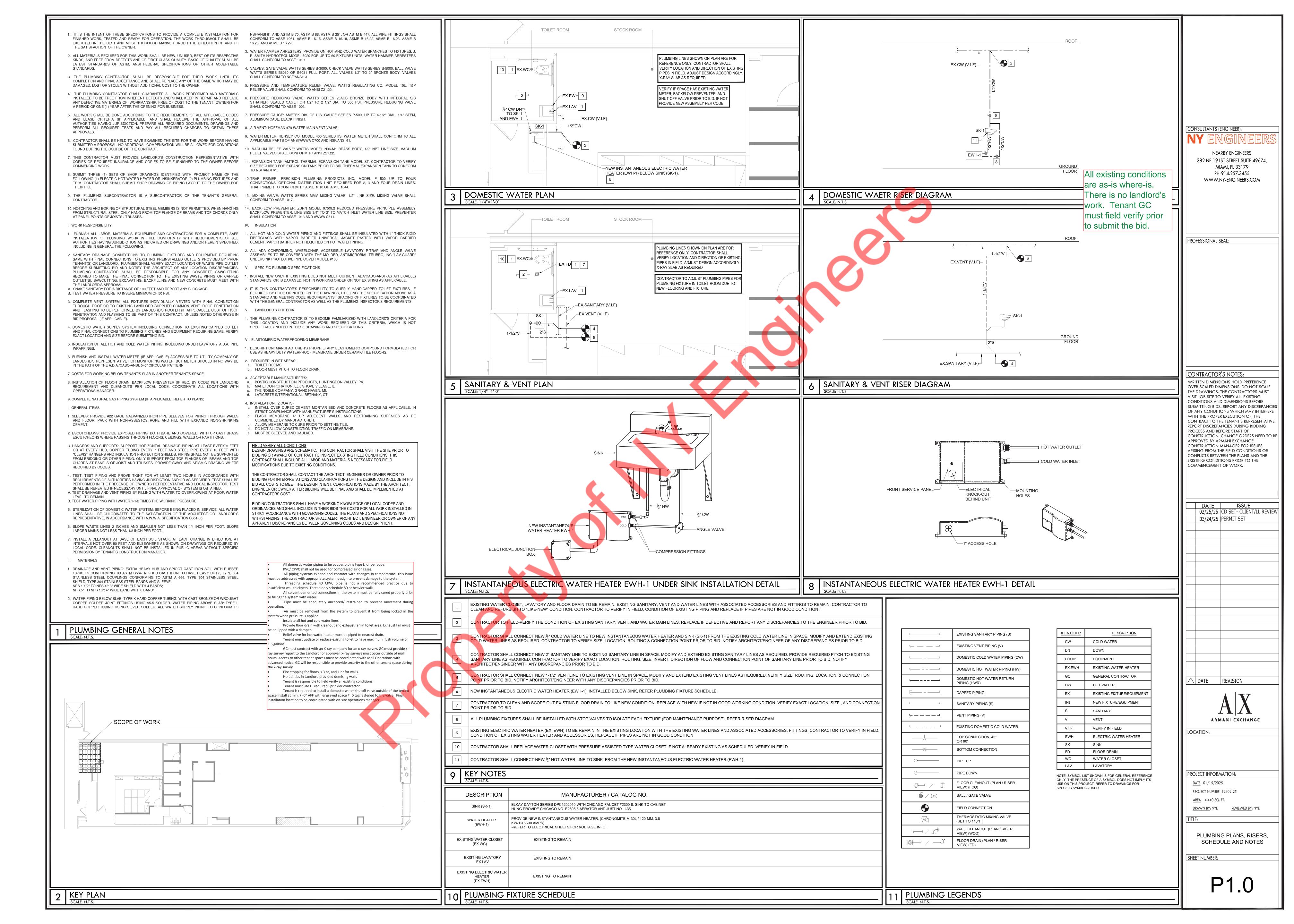
DRAWN BY: NYE

REVIEWED BY: NYE

ENERGY ANALYSIS (TITLE 24)

SHEET NUMBER:

E5.0



					ВІ	JILDING DATA						
PROJ	IECT DESCRIPTION		BUILDING OCCUPANCY				E	BUILDING DESCRIPTION			FI	RE ALARM SYSTEM FEATURES
	NEW BUILDING		ASSEMBLY GROUP A (A1,A2,A3,A4 AND A5)	RESIDENTIAL GROUP R (R1,R2 AND R3)	2	TOTAL NUMBER OF LEVELS		ATRIUM	STAII	R PRESSURIZATION		NON-VOICE EVACUATION
	FIRE ALARM SYSTEM UPGRADE	Х	BUSINESS GROUP B	STORAGE GROUP S (S1 AND S2)	2	ABOVE GROUND LEVELS	FIRST FL	FIRE DEPARTMENT ACCESS	POST	FIRE SMOKE PURGE		VOICE EVACUATION
	LIFE SAFETY SYSTEM UPGRADE		EDUCATIONAL GROUP E	UTILITY AND MISCELLANEOUS GROUP U	-	BELOW GROUND LEVELS	х	FULLY SPRINKLERED	GEN	ERATOR		PARTIAL/SELECTIVE EVACUATION
Х	RENOVATION		FACTORY INDUSTRIAL GROUP F (F1 AND F2)	OTHER:	-	NUMBER OF ELEVATOR BANKS		PARTIALLY SPRINKLERED	FIRE	PUMP	Х	GENERAL EVACUATION
	EMERGENCY REPAIR		HIGH-HAZARD GROUP H (H1,H2,H3,H4 AND H5)		-	NUMBER OF EGRESS STAIRS		NON-SPRINKLERED	ОТНЕ	ER:		DIGITAL ALARM COMMUNICATOR
	TENANT ADDITION		INSTITUTIONAL GROUP I (I1,I2 AND I3)					PRE-ACTION SPRINKLER	ОТНЕ	ER:		PRE-SIGNAL SYSTEM
	OTHER:		MERCANTILE GROUP M									FIRE FIGHTER'S TELEPHONE SYSTEM

FIRE ALARM I/O MATRIX

	SYSTEM OUTPUTS	(CONTROL	UNIT ANN	UNCIAT	ION			NOT	ΓΙΓΙCΑΤΙ				REC		FIRE SAF	ETY
	INDICATING/CONTROLLED DEVICES	ACTIVATE COMMON ALARM SIGNAL INDICATOR ON LCD OF FIRE ALARM CONTROL PANEL & OUTLYING ANNUNCIATORS	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR ON LCD OF FIRE ALARM CONTROL PANEL & OUTLYING ANNUNCIATORS.	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR ON LCD OF FIRE ALARM CONTROL PANEL & OUTLYING ANNUNCIATORS.	SOUND INTERNAL BUZZER AT FIRE ALARM CONTROL PANEL & OUTLYING ANNUNCIATORS.	TEXT MESSAGE DISPLAY DEVICE TYPE & LOCATION OF THE ACTIVATING DEVICES ON LCD OF FIRE ALARM CONTROL PANEL & OUTLYING ANNUNCIATORS.	DISPLAY/PRINT THE TEXT MESSAGE VIA THE SYSTEM PRINTER.	ACTIVATE EVACUATION SIGNAL THROUGH HORN AND FLASH THE STROBES ON ALARM	ANSMIT "MANUAL" ALARM SIGNAL TO FIRE EPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY.	TRANSMIT "SMOKE" ALARM SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY.	TRANSMIT "WATERFLOW" ALARM SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY.	TRANSMIT "SUPERVISORY" ALARM SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY.	TRANSMIT "TROUBLE" ALARM SIGNAL TO FIRE DEPARTMENT VIA AN APPROVED CENTRAL STATION MONITORING COMPANY.	INITIATE THE AUTOMATIC FIRE MODE CONDITIONS FOR FAN (AC UNIT) OPERATION. PROCEED AC UNIT SHUTDOWN SEQUENCE.	RELEASE ALL ELECTRICALLY HELD OPEN FIRE & SMOKE DOORS.	RELEASE ALL ELECTRIC STRIKES ON STAIRWAY RE-ENTRY DOORS & ALL OTHER DOORS IN BUILDING IN THE PATHS OF EGRESS TO THE EXIT STAIRWAYS.	
	STEM INPUTS FIATING DEVICES	ACTI	ND AC	<u>N</u>	SON	LOCA OF F	DIS	ACTI	동교	 E B	TRAN	TRA	TR/ DE	8 8	RELE	RELE RI BUILE	
		ACTII	B B	C	D D	T LOCA	SIOF	ACTI	H JAT JA	I F BG	L TRAN	X FIRE	T DE	M SH	z RELE	O BUILE	
		1			_					1 F 9			T AST DE				1
	TIATING DEVICES	Α			D	E	F	G	Н	1			T DE		N	0	1 2
1 1	MANUAL PULL STATION	A			D	E	F	G	Н	AT -	J		r T	M	N Ø	0	
1 2	MANUAL PULL STATION WATERFLOW SWITCH	A			D O	E	F	G Ø	Н	I	J		r F	M	N	0	2
1 2 3	MANUAL PULL STATION WATERFLOW SWITCH AREA SMOKE DETECTOR	A	В		D O	E	F	G Ø	Н	I	J	K	L L	M	N	0	2
1 2 3 4	MANUAL PULL STATION WATERFLOW SWITCH AREA SMOKE DETECTOR SPRINKLER CONTROL VALVE/TAMPER SWITCH	A	В	С	D	E	F	G Ø	Н	I	J	K	L	M	N	0	3 4
1 2 3 4 5	MANUAL PULL STATION WATERFLOW SWITCH AREA SMOKE DETECTOR SPRINKLER CONTROL VALVE/TAMPER SWITCH FIRE ALARM AC POWER FAILURE	A	В	C		E	F	G Ø	Н	I	J	K	L	M	N	0	2 3 4 5
1 2 3 4 5	MANUAL PULL STATION WATERFLOW SWITCH AREA SMOKE DETECTOR SPRINKLER CONTROL VALVE/TAMPER SWITCH FIRE ALARM AC POWER FAILURE FIRE ALARM SYSTEM LOW BATTERY	A	В	C		E	F	G Ø	Н	I	J	K		M	N	0	2 3 4 5

ABBRE'	VIATIONS		
AFF	ABOVE FINISHED FLOOR	HC	HUNG CEILING
С	CONDUIT	HC	HUNG CEILING
DGP	DATA GATHERING PANEL	NE	NEW TO REPLACE EXISTING
E	EXISTING	NTS	NOT TO SCALE
EL	EXISTING TO BE LOWERED	R	REMOVE
ELV	ELEVATOR LOBBY	RCU	REMOTE COMPUTER UNIT
EMT	ELECTRIC METALLIC TUBING	RE	RELOCATED EXISTING
ER	EXISTING TO BE RELOCATED	RGS	RIGID GALVANIZED STEEL
FA	FIRE ALARM	RP	RELOCATED POSITION
FCS	FIRE COMMAND STATION	UON	UNLESS OTHERWISE NOTED
FDS	FUSED DISCONNECT SWITCH	W	WIRE
G	GROUND		

	FIRE ALARM S	YMBOL	. LIST
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FO	STROBE LIGHT DEVICE, WALL MOUNTED	F	FIRE ALARM MANUAL PULL STATION, WALL MOUNTED (48" AFF)
Œ Þ	STROBE LIGHT DEVICE, CEILING MOUNTED	TS	TAMPER SWITCH
H◀	WALL MOUNTED HORN/STROBE COMBINATION DEVICE	WF	WATER FLOW SWITCH
▶H◀	CEILING MOUNTED HORN/STROBE COMBINATION DEVICE	ММ	MONITOR MODULE
(S)	CEILING MOUNTED AREA SMOKE DETECTOR	R	FIRE ALARM RELAY
FACP	FIRE ALARM CONTROL PANEL	СМ	CONTROL MODULE
D	DUCT MOUNTED SMOKE DETECTOR		SOLID THICK LINE INDICATES NEW DEVICE OR WIRING
FSD	FIRE SMOKE DAMPER		DOTTED LINE INDICATES EXISTING DEVICE OR WIRING

TYPE OF DESIGN:

INSTALLATION OF NEW FA DEVICES, ALONG WITH MODIFICATIONS TO THE EXISTING MANUAL AND AUTOMATIC SMOKE DETECTION, NOTIFICATION SYSTEM AND A SPRINKLER ALARM SYSTEM, UTILIZING THE EXISTING FIRE ALARM CONTROL PANEL (FACP). NO CHANGE IN USE OCCUPANCY OR EGRESS.

	DRAWINGS LIST
FA1.0	FIRE ALARM NOTES, BUILDING DATA, SYMBOL LIST, ABBREVIATIONS, PLOT PLAN, I/O MATRIX & RISER DIAGRAM
FA2.0	FIRE ALARM PLAN
	APPLICABLE CODES
01	2022 CALIFORNIA BUILDING CODE WITH AMENDMENTS & ADDITION FROM IBC 2021

02 2022 CALIFORNIA ENERGY CODE (TITLE 24)

03 2022 CALIFORNIA ELECTRICAL CODE

FIRE ALARM NOTES:

- ALL EQUIPMENT AND WIRING INDICATED ON THESE PLANS IS NEW (U.O.N.).
 PROVIDE WIRING AS REQUIRED BETWEEN ALL DEVICES AND EQUIPMENT AS
- REQUIRED TO PERFORM FIRE ALARM SYSTEM FUNCTIONS.

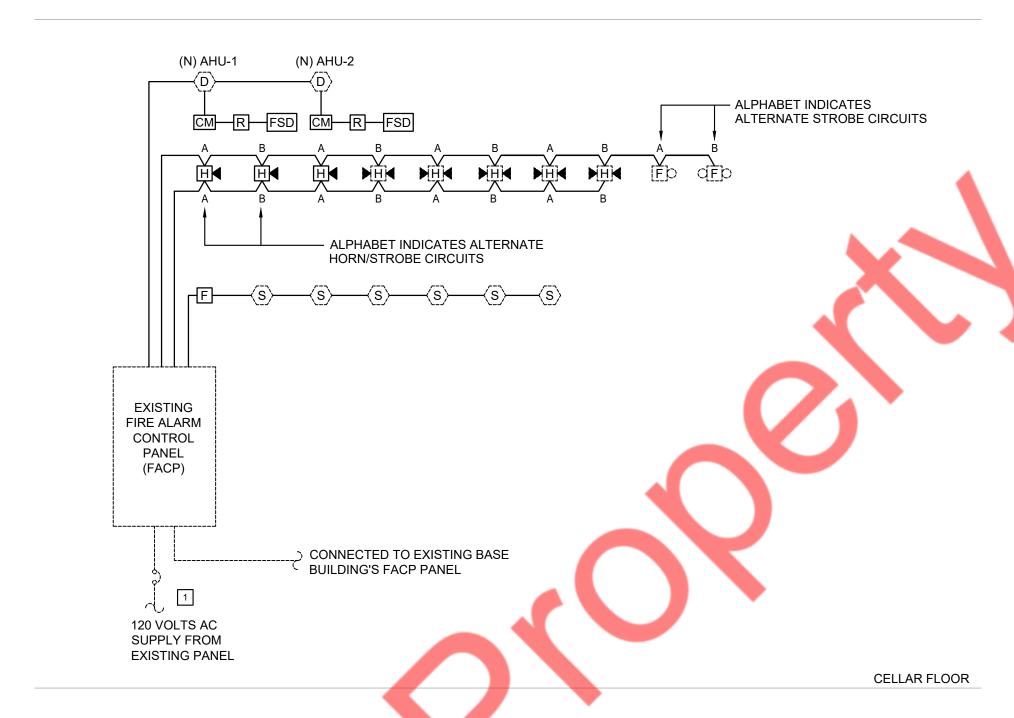
 3. WIRING FOR FIRE ALARM DEVICES IN FINISHED SPACES WITHOUT HUNG
- CEILING SHALL BE INSTALLED IN EMT CONDUIT.

 4. ALL STROBES AND HORN/STROBES SHALL BE FLUSH WALL MOUNTED FINISH

BY ARCHITECT, APPROVED FOR USE IN CALIFORNIA STATE.

- 5. ALL DUCT SMOKE DETECTORS INSTALLED IN HUNG CEILING AREA AND IN OUT OF SIGHT AREA SHALL HAVE REMOTELY INSTALLED STATUS INDICATOR LAMPS. COORDINATE EXACT LOCATION WITH ARCHITECT AND GENERAL
- 6. FOR WALL MOUNTED F.A. DEVICES PROVIDE 3/4" CONDUIT TERMINATED IN NEAREST ACCESSIBLE CEILING.
- WIRING FOR FIRE ALARM DEVICES IN UNFINISHED SPACES SHALL BE INSTALLED IN RGS CONDUIT UP TO 8'-0" AFF AND THEN IN EMT CONDUIT ABOVE 8'-0" AFF.
- 8. FOR LOCATIONS AND QUANTITIES OF DEVICES REFER TO FIRE ALARM FLOOR PLANS. WHERE THERE ARE DISCREPANCIES BETWEEN THE PLANS AND THE RISER DIAGRAM, THE GREATER QUANTITY SHALL BE USED.
- 9. CONTRACTOR SHALL VERIFY ALL WIRING WITH FIRE ALARM VENDOR AND OBTAIN WIRING DIAGRAMS BEFORE PROCEEDING WITH THE START OF ANY WORK.
- 10. ALL WIRING SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE 2022 (CEC 2022).
- 11. PROVIDE FAN SHUT DOWN CAPABILITY FOR FANS WITH A RATING LARGER THAN 2,000 CFM. SHUT DOWN SHALL BE ACCOMPLISHED BY ONE OR MORE OUTPUT CONTROL POINTS FROM THE FIRE ALARM SYSTEM TO RELAYS FOR SHUTDOWN. PROVIDE CONTROL AND MONITORING FOR ALL RELAYS. PROVIDE POWER, CONTROL RELAYS, MONITORING AND WIRING FOR ALL FIRE/SMOKE DAMPERS.
- 12. DUCT DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR ALONG WITH FURNISHING OF THE SAMPLING TUBES. DUCTWORK MODIFICATIONS AND INSTALLATION OF SAMPLING TUBES SHALL BE BY THE MECHANICAL CONTRACTOR. FOR FANS RATED LARGER THAN 2,000 CFM PROVIDE DUCT DETECTORS IN SUPPLY AND RETURN DUCTWORK.
- 13. PROVIDE ALL REQUIRED EXPANSION PANELS, PC BOARDS, POWER SUPPLIES, BATTERIES, FUSE CUTOUTS AND BRANCH CIRCUITS, ETC, FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM.
- 14. STROBES AND HORNS SHALL BE WIRED ON ALTERNATING A-B CIRCUITING IN ALL AREAS, AS INDICATED ON THE RISER DIAGRAM.
- 15. CONTRACTOR SHALL PERFORM ALL BUILDING DEPT. FILINGS AND OBTAIN ALL APPROVALS. CONTRACTOR SHALL OBTAIN ALL REQUIRED SIGNED & SEALED BUILDING DEPT. FORMS AND ALL REQUIRED SETS OF DRAWINGS FROM ENGINEER OF RECORD AND BUILDING DEPT. EXPEDITOR.
- 16. UPON COMPLETION OF INSTALLATION THE SYSTEM SHALL BE 100% PRE-TESTED BY THE FIRE ALARM VENDOR AND THE LICENSED ELECTRICAL CONTRACTOR PRIOR TO FDNY INSPECTION.
- 17. CONTRACTOR SHALL SUBMIT TO THE ENGINEER A MARKUP OF FA DRAWINGS INDICATING "AS-BUILT" CONDITIONS FOR ENGINEER'S REFERENCE. IN PREPARING "AS-BUILT" DRAWINGS FOR FILING, CONTRACTOR SHALL SIGN "AS-BUILT" STATING A FUNCTIONAL TEST HAS BEEN CONDUCTED OF THE FIRE ALARM SYSTEM AND THE SYSTEM OPERATES AS DESIGNED AND IN ACCORDANCE WITH THE INPUT/OUTPUT PROGRAMMING MATRIX IN ACCORDANCE WITH 3 RCNY & 105-01.

FIRE ALARM SYSTEM RISER DIAGRAM



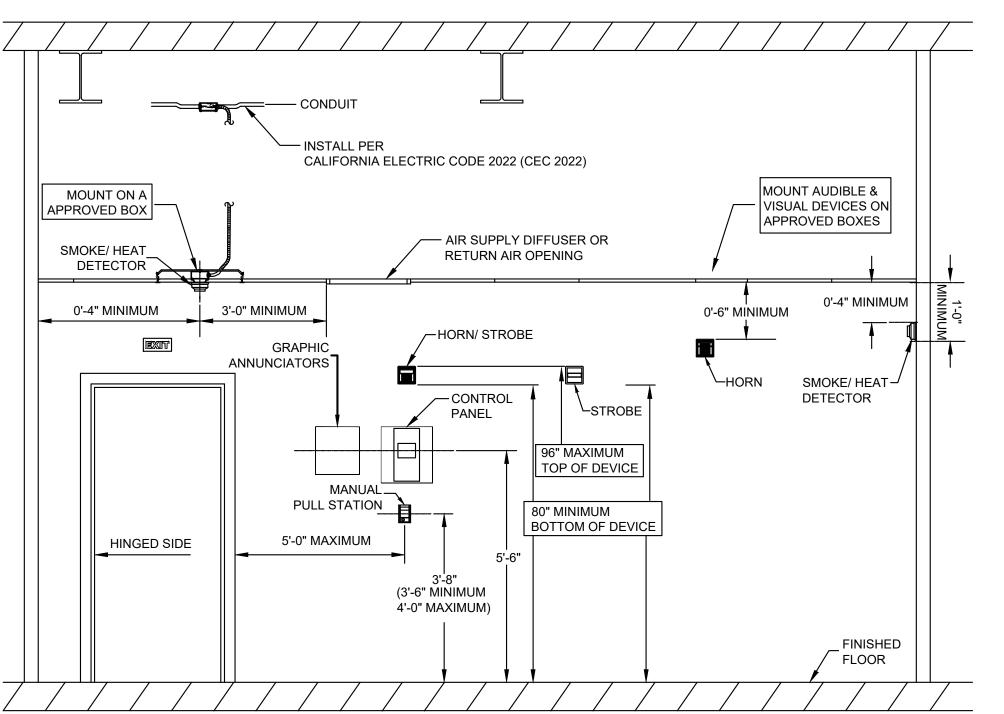
FIRE ALARM RISER NOTES:

- ALL COMPONENTS REQUIRED TO MAKE SYSTEM WORKABLE SHALL BE INCLUDED IN BID PRICE.
- EACH FA RELAY SHALL HAVE MINIMUM OF THREE SETS OF 2 CONTACT 10A RATED @ 120V (TYPICAL).
 ALL DUCT SMOKE DETECTORS INSTALLED IN HUNG CEILING AREA AND IN OUT OF SIGHT AREA SHALL HAVE REMOTELY INSTALLED STATUS INDICATOR LAMPS. COORDINATE EXACT LOCATION WITH ARCHITECT AND GENERAL
- 4. FOR WALL MOUNTED F.A. DEVICES PROVIDE 3/4" CONDUIT TERMINATED IN NEAREST ACCESSIBLE CEILING.
- 5. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT WHERE REQUIRED BY CALIFORNIA ELECTRICAL CODE 2022 (CEC 2022).
- 6. THIS RISER DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES.
- . ALL FIRE ALARM CONDUITS SHALL BE MINIMUM ¾".
- 8. ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4/Y/B (CLASS B) WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS NOT STYLE 7 AND WILL NOT BE APPROVED.

KEYED WORK NOTES:

THE CIRCUIT BREAKER FEEDING THE FACP SHALL BE IDENTIFIED RED WITH CIRCUIT BREAKER LOCK INSTALLED.

FIRE ALARM DEVICES TYPICAL MOUNTING HEIGHT:



CONSULTANTS (ENGINEER): NY ENGINEERS

NEARBY ENGINEERS
382 NE 191ST STREET SUITE 49674,
MIAMI, FL 33179
PH-914.257.3455
WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES: WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE

EXISTING CONDITIONS PRIOR TO THE

COMMENCEMENT OF WORK.

DATE 02/25/25 CD SET- CLIENT/LL REVIEW 03/24/25 PERMIT SET

△ DATE REVISION

ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025

PROJECT NUMBER: 12402-25

AREA: 4,440 SQ. FT.

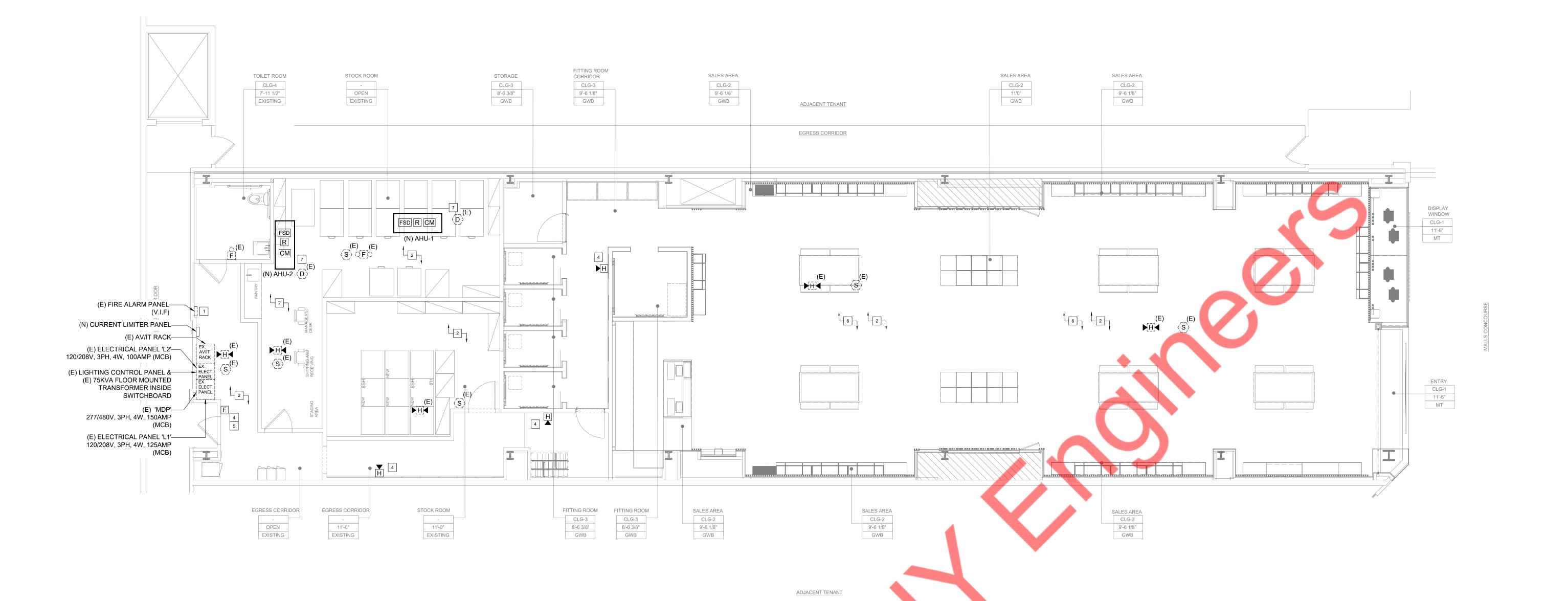
SHEET NUMBER:

DRAWN BY: NYE REVIEWED BY: NYE

FIRE ALARM NOTES, BUILDING DATA, SYMBOL LIST, ABBREVIATIONS, PLOT PLAN, I/O MATRIX & RISER DIAGRAM

FA1.0





1 FIRE ALARM PLAN

GENERAL NOTES

1.	FIRE ALARM CONTRACTOR SHALL COORDINATE ALL THE FIRE ALARM DEVICE LOCATION WITH THE REFLECTED CEILING PLAN AND CONFIRM IN THE FIELD WITH ARCHITECT/OWNER.

- 2. ALL DEVICES SHALL BE COMPATIBLE WITH AND MAINTAIN THE UL LISTING OF EXISTING FA SYSTEM.
- 3. G.C. SHALL FIELD VERIFY EXACT REQUIREMENTS FOR FIRE ALARM SYSTEM PRIOR TO BID. SUPPLY AND INSTALL ALL NECESSARY EQUIPMENT AS REQUIRED.
- 4. REFER TO DRAWING. FA1.0 FOR FIRE ALARM NOTES, SYMBOL LIST, ABBREVIATIONS.
- 5. FINAL CONDUIT/CABLE ROUTING SHALL BE DETERMINED IN-FIELD, AND PRIOR TO THE COMMENCEMENT OF WORK, COORDINATED WITH OTHER TRADE CONTRACTORS AND THE OWNER.
- 6. CONFIRM REQUIRED DEVICES AND SEQUENCE OF OPERATION WITH FIRE ALARM CONTRACTOR.

H◀	HORN/STROBE LIGHT DEVICE, CEILING MOUNTED HORN/STROBE LIGHT DEVICE, WALL MOUNTED
H	
	HORN/STROBE LIGHT DEVICE, WALL MOUNTED
FO	
	WALL MOUNTED STROBE
F	MANUAL PULL STATION
S	SMOKE DETECTOR
OF O	CEILING MOUNTED STROBE
D	DUCT SMOKE DETECTOR
MM	MONITORING MODULE
CM	CONTROL MODULE
TS	TEMPER SWITCH
WF	WATER FLOW SWITCH
R	RELAY
2. ALL OUT ABBREVIA	L SYMBOLS MAY APPEAR ON DRAWINGS. TLETS TO BE WHITE. ATION: TING; (R) - EXISTING RELOCATED

KEY NOTES

- EXISTING FIRE ALARM PANEL TO REMAIN. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION AND OPERABLE CONDITION IN FIELD WITH ARCHITECT/OWNER. PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- FIRE ALARM CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION & WORKABLE CONDITION OF FA DEVICES. REUSE EXISTING FA DEVICES, RELOCATE TO NEW LOCATION IF REQUIRED, OTHERWISE PROVIDE NEW. BASE BID ACCORDINGLY.

 ALL NEW DEVICES SHALL BE COMPATIBLE WITH AND MAINTAIN THE UL LISTING OF THE EXISTING FA SYSTEM. CONNECT ALL NEW
- FIRE ALARM SYSTEM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED. BASE BID ACCORDINGLY.

 ALL NEW DEVICES SHALL BE CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL (FACP). CONTRACTOR SHALL

 COORDINATE THE EXACT LOCATION AND OPERABLE CONDITION IN FIELD IN COORDINATION WITH ARCHITECT/OWNER. BASE BID
- ACCORDINGLY.

 FIRE ALARM CONTRACTOR SHALL FIELD VERIFY IF FIRE ALARM PULL IS PROVIDED FOR THE PROJECT SPACE. IF NOT, PROVIDE NEW AS SHOWN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. BASE BID ACCORDINGLY.
- FIRE ALARM CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EXISTING TAMPER AND WATER FLOW SWITCHES IN FIELD. COORDINATE THE EXACT QUANTITY OF TAMPER AND WATER FLOW SWITCHES WITH SPRINKLER CONTRACTOR IN FIELD. BASE BID ACCORDINGLY.
- FIRE ALARM CONTRACTOR TO FIELD VERIFY THE OPERBALE CONDITION OF EXISTING DUCT SMOKE DETECTORS. PROVIDE NEW IF FOUND INOPERABLE. ALSO, COORDINATE EXACT LOCATION & ADDITIONAL INFORMATION WITH MECHANICAL CONTRACTOR IN FIELD

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS
382 NE 191ST STREET SUITE 49674,

MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES:

WRITTEN DIMENSIONS HOLD PREFERENCE

THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

OVER SCALED DIMENSIONS. DO NOT SCALE

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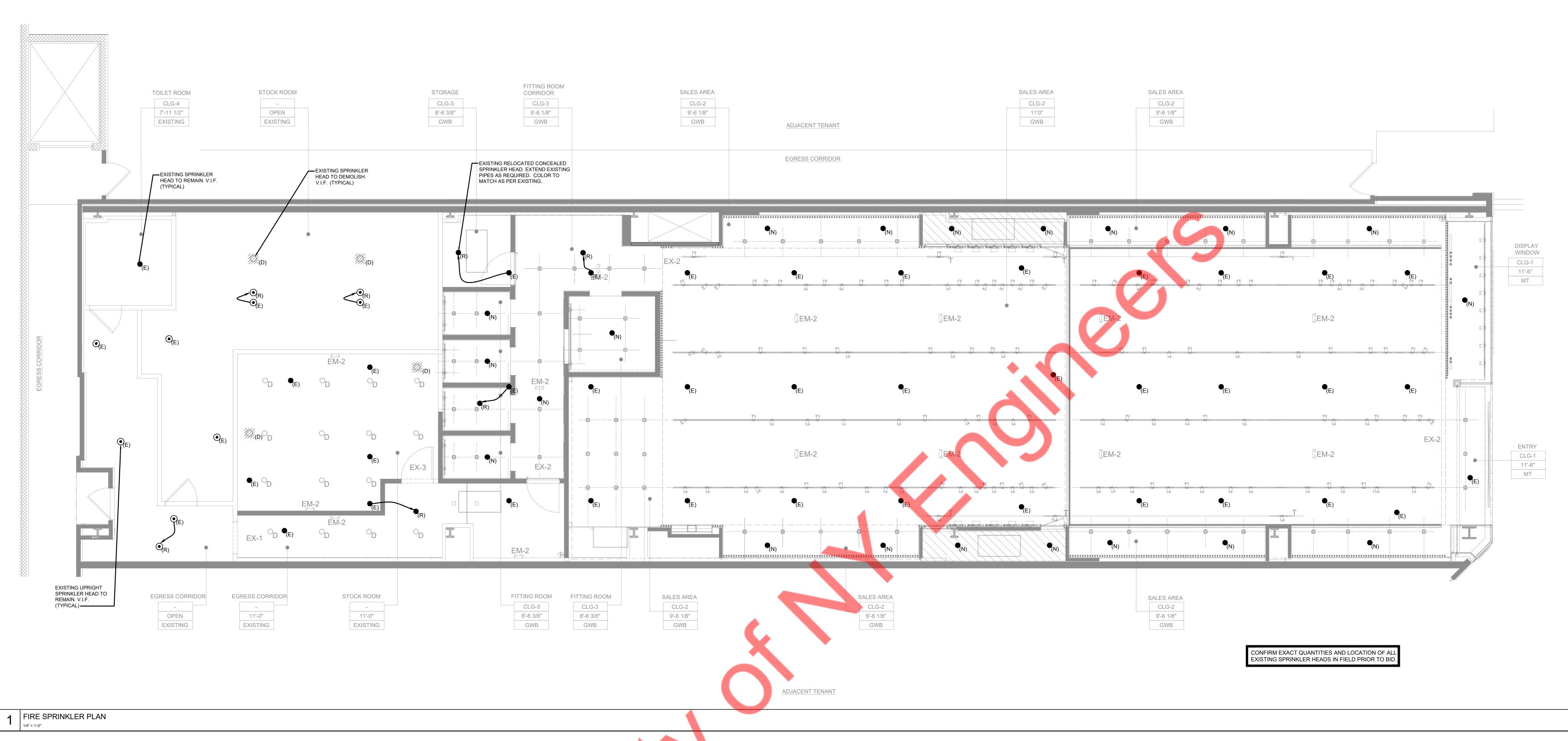
AREA: 4,440 SQ. FT.

DRAWN BY: NYE REVIEWED BY: NYE

FIRE ALARM

PLAN
SHEET NUMBER:

FA2 0



SPRINKLER GENERAL NOTES

I. DESIGN/BUILD REQUIREMENTS

1. THE SPRINKLER SUBCONTRACTOR, A LICENSED SUBCONTRACTOR OF THE TENANT'S GENERAL CONTRACTOR (USE ONLY DESIGNATED SPRINKLER SUBCONTRACTOR IF REQUIRED BY LANDLORD) IS REQUIRED TO MODIFY AN EXISTING SYSTEM AS PER THE LATEST N.F.P.A.-13, 2022 AND THE BUILDING LANDLORD'S INSURANCE UNDERWRITER'S REQUIREMENTS AND OTHER RELEVANT AUTHORITIES' REQUIREMENTS. SPRINKLER CONTRACTOR TO VERIFY WITH BUILDING LANDLORD AS TO THE BASIS FOR DESIGN - OCCUPANCY TYPE AND DENSITY, NORMAL OR

2. THE SYSTEM SHALL BE DESIGNED TO MODIFY THE SPRINKLER HEADS WITHIN THE DEMISED PREMISES.

3. THE SPRINKLER HEAD TO BE USED IN THE ENTIRE SPACE WHERE A CEILING OCCURS ARE TO BE WHITE PLATED RECESSED TYPE, UNLESS THERE IS A SPECIAL TYPE HEAD REQUIRED BY THE LANDLORD. IF THIS IS THE CASE, THE SPRINKLER HEAD TO BE USED IS AS PER LANDLORD'S SPECIFICATION ONLY.

4. THE SPRINKLER CONTRACTOR SHALL INCLUDE IN HIS SUBMISSIONS FOR APPROVAL BY THE BUILDING LANDLORD AND REVIEW BY THE TENANT'S REPRESENTATIVE, A 1/4" SCALE SPRINKLER LAYOUT. (UTILIZE TENANT'S REFLECTED CEILING PLAN.)

5. THE SPRINKLER SUBCONTRACTOR SHALL OBTAIN ALL APPROVALS FROM APPLICABLE AUTHORITIES FOR THE SPRINKLER SYSTEM.

6. OWNER, TENANT, CLIENT AND LESSEE ARE ALL THE SAME INDIVIDUAL OR COMPANY. THE LANDLORD AND LESSOR IS THE BUILDING LANDLORD AND/OR THE OWNER OR REPRESENTATIVE OF THE OWNER OF THE SHOPPING CENTER. LANDLORD'S ARCHITECT AND CONSTRUCTION REPRESENTATIVE MAY OR MAY NOT BE ONE AND THE SAME; TENANT'S ARCHITECT AND CONSTRUCTION REPRESENTATIVE MAY OR MAY NOT BE ONE AND THE SAME.

SHOPPING CENTER OR BUILDING (AS APPLICABLE) TENANT, THE SPRINKLER SUBCONTRACTOR MUST CHECK SITE CONDITIONS TO ANALYZE IF MAINS, BRANCH LINES, ETC., MAY BE EXISTING LOWER THAN OR IN THE WAY OF THE NEW CEILING HEIGHT OR OVERHEAD GRILLE ASSEMBLY; IF THIS IS THE CASE, THEN COSTS FOR REMOVING, RELOCATING AND NEW, SHOULD BE INCLUDED IN THE SPRINKLER CONTRACTOR'S BID.

8A. THIS IS A NEW SYSTEM TO BE INSTALLED AS TO LAYOUT AND CAPACITY BASED ON TENANT'S FLOOR PLANS, CEILING PLANS, HEIGHTS AND SECTIONS AND THE LATEST N.F.P.A.-13 STANDARDS GOVERNING THIS USE. SPRINKLER SUBCONTRACTOR TO CHECK WITH LOCAL FIRE AUTHORITIES REGARDING ANY SPECIAL SPRINKLER REQUIREMENTS FOR SIDE WALL CASES (AS APPLICABLE).

8B. THIS IS AN EXISTING SYSTEM TO BE MODIFIED AS TO LAYOUT AND CAPACITY BASED ON TENANT'S FLOOR PLANS, CEILING PLANS, HEIGHTS AND SECTIONS AND THE LATEST N.F.P.A.-13 STANDARDS GOVERNING THIS USE. SPRINKLER SUBCONTRACTOR TO CHECK WITH LOCAL FIRE AUTHORITIES REGARDING ANY SPECIAL SPRINKLER REQUIREMENTS FOR SIDE WALL CASES (AS APPLICABLE).

9.ALL SPRINKLER HEADS IN ACOUSTICAL SALES AREA CEILINGS TO BE IN CENTER OF TILES.

1.IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE. INSTALLATION FOR FINISHED WORK, TESTED AND READY FOR OPERATION. THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST

II. GENERAL REQUIREMENTS

STANDARDS.

SATISFACTION OF THE BUILDING OWNER AND TENANT'S REPRESENTATIVE. 2.ALL MATERIALS REQUIRED FOR THIS WORK SHALL BE NEW, UNUSEI BEST OF ITS RESPECTIVE KINDS. AND FREE FROM DEFECTS. AND OF FIRST CLASS QUALITY. BASIS OF QUALITY SHALL BE BASED ON TH

LATEST STANDARDS OF THE N.F.P.A.-13, 2022 AND OTHER ACCEPTABLE

AND MOST THOROUGH MANNER UNDER THE DIRECTION OF AND TO THE

3.THE SPRINKLER SUBCONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK UNTIL ITS COMPLETION AND FINAL ACCEPTANCE. AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE BUILDING OWNER OR TENANT.

7. SINCE SPACE TO BE OCCUPIED WAS WHOLLY OR PARTIALLY ANOTHER 4. THE SPRINKLER SUBCONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS INSTALLED BY HIM TO BE FREE FROM INHERENT DEFECTS, AND SHALL KEEP IN REPAIR AND REPLACE ANY DEFECTIVE MATERIALS OF WORKMANSHIP, FREE OF COST TO THE TENANT OR LESSEE (OWNER) FOR A PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF ALL THE WORK.

5.ALL WORK SHALL BE DONE ACCORDING TO THE REQUIREMENTS OF ALL APPLICABLE CODES AND BUILDING LANDLORD / TENANT LEASE CRITERIA (IF APPLICABLE) AND SHALL RECEIVE THE APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION. PREPARE ALL REQUIRED DOCUMENTS, DRAWINGS AND PERFORM ALL REQUIRED TESTS AND PAY ALL REQUIRED CHARGES TO OBTAIN THESE APPROVALS.

6.THIS CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE SITE FOR HIS WORK AND REVIEWED THE DRAWINGS WITH THE TENANT'S GENERAL CONTRACTOR BEFORE HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.

7.THIS CONTRACTOR MUST PROVIDE TENANT, BUILDING LANDLORD, AND TENANT'S CONSTRUCTION REPRESENTATIVES WITH COPIES OF REQUIRED INSURANCE AND COPIES TO BE FURNISHED TO THE OWNER BEFORE COMMENCING WORK.

8.SUBMIT THREE (3) SETS OF SHOP DRAWINGS IDENTIFIED WITH PROJECT NAME TO THE BUILDING OWNER, OWNER AND OWNER'S CONSTRUCTION REPRESENTATIVE FOR HIS FILE.

FURNISH ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, AND

WORK IN FULL CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES

HAVING JURISDICTION AS INDICATED ON DRAWINGS AND/OR HEREIN

CONTRACTORS FOR A COMPLETE, SAFE INSTALLATION OF SPRINKLER

SPECIFIED.

JOISTS AND TRUSSES.

1.IF VALVES ARE NOW UTILIZED IN SYSTEM BUT NOT ALLOWED BY LAW, THEY ARE TO BE REMOVED AS REQUIRED.

2.SPRINKLER SUBCONTRACTOR SHOULD VERIFY WITH LANDLORD ANY SPECIAL REQUIREMENTS, HOOKUPS, ALARM SYSTEMS IN PIPING, ETC., AND INCLUDE COST IN BID - ITEMIZE AND SPECIFY INCLUSIONS IN BID.

3.DRAIN DOWNS AS PER GENERAL CONTRACTOR'S REQUIREMENTS. PIPING SHALL NOT BE SUPPORTED FROM DUCTWORK, ELECTRICAL, MECHANICAL, PLUMBING, OR OTHER SPRINKLER PIPING. ONLY HANG FROM TOP FLANGES OF BEAMS AND TOP CHORDS AT PANEL POINTS OF

4.TEST: TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS BASED ON CODE OR BUILDING OWNER'S REQUIREMENTS AND IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF BUILDING OWNER (IF REQUIRED) AND OWNER'S REPRESENTATIVE AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF

5. STERILIZATION OF SPRINKLER SYSTEM: IF REQUIRED BY CODE OR LANDLORD'S CRITERIA, BEFORE SPRINKLER SYSTEM IS PLACED INTO SERVICE, ALL LINES SHALL BE CHLORINATED TO THE SATISFACTION OF REPRESENTATION (AS APPLICABLE) IN ACCORDANCE WITH N.F.P.A. STANDARDS.

NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED. AS PER

CODE REQUIREMENTS, TEST PIPING BY FILLING WITH AIR UNDER

6. NOTCHING AND BORING OF STRUCTURAL STEEL MEMBERS IS NOT PERMITTED, WHEN HANGING FROM STRUCTURAL STEEL ONLY HANG FROM TOP FLANGE OF BEAMS AND TOP CHORDS ONLY AT PANEL POINTS OF JOISTS / TRUSSES.

V. SPRINKLER CONTRACTOR TO FILE FOR PERMITS AND SUBMIT PLANS TO BUILDING DEPARTMENT FOR APPROVAL AND SIGN-OFF. ALL BUILDING DEPARTMENT WORK FOR THIS CONTRACTORS SCOPE, TO BE FILED BY THIS CONTRACTOR.

VI. BUILDING LANDLORD'S CRITERIA

1. THE SPRINKLER CONTRACTOR IS TO FAMILIARIZE HIMSELF WITH BUILDING LANDLORD'S CRITERIA FOR THIS LOCATION (IF APPLICABLE) AND INCLUDE ANY WORK REQUIRED OF THIS CRITERIA, WHICH IS NOT SPECIFICALLY NOTED IN THESE DRAWINGS AND SPECIFICATIONS.

2. THE SPRINKLERS MUST BE A FULL-COVERAGE SYSTEM WHICH

COMPLIES WITH ALL THE REQUIREMENTS OF N.F.P.A.-13, 2022. 3. SPECIAL ATTENTION MUST BE PAID TO SPRINKLER OBSTRUCTIONS INCLUDING STOCK FIXTURES AND VALANCES.

FIRE PREVENTION. 5. A COMPLETED, CERTIFIED COPY OF THE "CONTRACTORS MATERIAL AND TEST CERTIFICATE" IS REQUIRED TO BE TURNED INTO THE BUREAU OF FIRE PREVENTION.

4. THE 200 PSI, TWO-HOUR HYDROSTATIC TEST OF THE SYSTEM IS REQUIRED TO BE WITNESSED BY A REPRESENTATIVE OF THE BUREAU OF

SPRINKLER NOTES

- SPRINKLER HEAD LOCATIONS INDICATE ALIGNMENTS AND GENERAL QUANTITY, REFER TO SPRINKLER DRAWINGS FOR EXACT LOCATIONS AND SPACING.
- 2. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SUBMIT PLANS FOR MODIFICATION OF THE FIRE SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW TENANT SPACE. G.C. MUST USE LANDLORD'S SPRINKLER CONTRACTOR FOR ALTERATIONS AS REQUIRED. SUBMIT SHOP DRAWINGS TO THE LANDLORD AND ARCHITECT FOR REVIEW PRIOR TO PERMITTING & INSTALLATION.

THE SPRINKLER SUBCONTRACTOR IS REQUIRED TO VISIT THE SITE DURING BIDDING AND VERIFY LOCATION OF WHERE SPRINKLER PIPING/EQUIPMENT IS INDICATED TO BE PLACED, THEIR ROUTE(S) AND POSSIBLE INTERSECTION(S) WITH OTHER EQUIPMENT/WORK/STRUCTURE (I.E. STEEL BEAMS, ETC.) TO BE INSTALLED AND/OR "EXISTING TO REMAIN". THIS SUBCONTRACTOR IS TO VERIFY HEIGHTS "TO BE INSTALLED" TO MAINTAIN DESIGNED CEILING HEIGHTS AND HEAD ROOM. ANY DISCREPANCIES BETWEEN DESIGNED AND ACTUAL TO BE TOLD TO THE GENERAL CONTRACTOR AND INDICATED ON THE BID FORM.

PRINKLER L	EGENDS AND ABBREVIATIONS
• (N)	NEW CONCEALED PENDENT SPRINKLER HEAD
● (E)	EXISTING UPRIGHT SPRINKLER HEAD TO REMAIN
(P)	EXISTING TO BE RELOCATED

EXISTING TO REMAIN EXISTING TO BE DEMOLISHED

PRINKLER HEAD COUNT	
W CONCEALED SPRINKLER	20
ISTING UPRIGHT SPRINKLER	4
MOLISHED UPRIGHT SPRINKLER	2
LOCATED UPRIGHT SPRINKLER	3
ISTING CONCEALED SPRINKLER	34
LOCATED CONCEALED SPRINKLER	4
MOLISHED CONCEALED SPRINKLER	2

CONSULTANTS (ENGINEER):

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FIRE SPRINKLER PLAN

& NOTES