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HVAC GENERAL N	IOTES

HVAC GENERAL NOTES	
BUILDING, ASHRAE STANDARD 90.1-201	NINSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE, MECHANICAL, THE 2020 FLORIDA BUILDING CODE 19 AS ALLOWED BY THE 2020 FLORIDA BUILDING CODE, ENERGY CONSERVATION, STATE AND LOCAL AMENDMENTS, NFPA 70 (NEC), 90A, 96, 101, TL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. THIS PROJECT HAS BEEN DESIGNE DOCUMENTATION (SCORECARD/ CHECK	, ED TO COMPLY WITH COMCHECK ENERGY CODE COMPLIANCE PATH. THE OWNER/ARCHITECT/CONTRACTOR SHALL REFER TO THE APPLICABLE PROJ KLIST/ CODE) PRIOR TO PRESENTING VALUE ENGINEERING ALTERNATIVES OR OWNER/ARCHITECT REQUESTED REVISIONS THAT MAY IMPACT REEN BUILDING PROGRAM OR ENERGY CODE.
AND ELECTRICAL WORK SHOWN ARE A	AND EXTENT OF EQUIPMENT, PIPING, SUPPORTS, DEVICES, CONDUIT, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF THE MECHAN PPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE THE DRAWINGS BUT REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT TS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS, SCALE, ETC., NOTIFY THE
	R NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWI AKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM
	RIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC FING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
DRAWINGS SHALL INCLUDE: ALL EQUIP CO/NO2 MONITORING AND CONTROL SY	TTED TO AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP 2MENT SCHEDULED OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 1/4" SCALE OR THE SCALE SHOWN ON THE DRAWINGS; PARKING GARAC 2YSTEM LAYOUT PREPARED BY THE SYSTEM MANUFACTURER INCLUDING SENSOR LOCATIONS, SEQUENCE OF OPERATION AND PRODUCT DATA; ERS, WALL CAPS, REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER.
INSTALLED LINE LENGTHS AND RECOMI COORDINATED WITH THE MANUFACTUR MAKE THE SYSTEM COMPLETE, FUNCTI b. FAILURE TO SUBMIT CERTIFIED RE WITH MANUFACTURER'S RECOMMENDA c. LONG LINE REFRIGERANT PIPING A d. ANY SPLIT SYSTEM WITH 75 FEET (THE EQUIPMENT MANUFACTURER CER' e. HVAC EQUIPMENT SUBMITTALS SH CONDITIONS, ELECTRICAL CHARACTER CERTIFICATES FOR ACTUAL EQUIPMEN	FRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL AND DOES NOT RELIEVE THE CONTRACTOR OF COMPLY ATIONS. APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE. OF SEPARATION BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT REQUIRES THAT THE CONTRACTOR OBTAIN A WARRANTY APPROVAL LETTER FROM TIFYING THE LONG LINE LENGTH DISTANCES SHOWN ON THE SUBMITTED SHOP DRAWINGS ARE ACCEPTABLE. IALL INCLUDE, BUT NOT BE LIMITED TO, DATA SHEETS FOR ALL SYSTEM COMPONENTS, FAN SELECTIONS WITH PERFORMANCE CURVES AT SITE STRICE (COORDINATED WITH ELECTRICAL SUBCONTRACTOR), WIRING DIAGRAMS, INSTALLATION, OPERATION AND MAINTENANCE MANUALS, AHRI RAT IT TO BE INSTALLED. FAILURE TO SUBMIT AHRI CERTIFICATES IS CAUSE FOR REJECTION OF THE SUBMITTAL.
SHOP DRAWINGS SHALL BE SUBMITTED	NSTALLATION DETAILS, AND CALCULATIONS STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER. D SIMULTANEOUSLY IN ONE PACKAGE WITH EACH ITEM CLEARLY NOTED BY THE TAG USED ON THE DRAWINGS AND SPECIFICATION SECTION PERTAIN
TO THE ITEM. 7. ALL MECHANICAL EQUIPMENT SHA	LL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
	SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
	DR AIR CONDITIONING UNITS, SEE ARCHITECTURAL DRAWINGS.
	OR AIR CONDITIONING EQUIPMENT LEVEL ON 6" THICK REINFORCED CONCRETE PADS EXTENDING 8" BEYOND UNIT PERIMETER
(MINIMUM OF 4 PADS PER UNIT). ALL R	COOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED PER DETAILS AND AS RECOMMENDED BY THE MANUFACTURER.
LOCATION OF THE OUTDOOR UNITS AR CONTRACTOR SHALL COORDINATE THE INSTALLED TO REDUCE THE SYSTEM TO REFRIGERANT PIPING SYSTEM. AFTER THE EQUIPMENT MANUFACTURER AND	E APPROXIMATE, THE IMPORTANCE OF UNIT LOCATIONS IN RELATION TO THE REFRIGERANT LINE SET LENGTH IS CRITICAL FOR THE PROJECT. THE E INSTALLATION AND OBSERVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR LONG LINE APPLICATIONS. REFRIGERANT LINE SETS SHALL OTAL EQUIVALENT LENGTH AND MINIMIZE SYSTEM CAPACITY LOSSES DUE TO ELBOWS, FITTINGS, VALVES, ETC. THAT COMPRISE THE ENTIRE RECEIPT OF THE APPROVED SUBMITTALS, THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE REFRIGERANT PIPING SCHEMATICS CERTIFIED E SUBMITTING THE REFRIGERANT PIPING DRAWINGS AS OUTLINED IN THE SHOP DRAWING NOTE ABOVE.
15. MOUNT TOP OF THERMOSTATS AN	PE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
ADJACENT TO LIGHT SWITCHES WHERE	ADES. COORDINATE FINAL LOCATIONS WITH THE GENERAL CONTRACTOR, INTERIOR DESIGNER AND THE OWNER PRIOR TO INSTALLATION. LOCATE E POSSIBLE. DO NOT LOCATE THERMOSTATS AT THE CENTER OR NEAR CENTER OF A WALL. THERMOSTATS SHALL BE MOUNTED NO CLOSER THAN 8" _ OR DOOR. ALL THERMOSTATS SHALL BE ADA COMPLIANT.
	D AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS. EILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS
18. CAREFULLY COORDINATE ALL PEN	IETRATIONS THROUGH EXTERIOR WALLS WITH ARCHITECTURAL DRAWINGS AND FINISHES. THE PENETRATIONS SHALL NOT BE LOCATED WHERE THE FEATURES, TRANSITIONS IN MATERIALS, OR COLOR CHANGES IN MATERIALS. HORIZONTALLY ALIGN PENETRATIONS WHEREVER POSSIBLE UNLESS
NOTED OTHERWISE. ANY DISCREPANCI	IES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY WORK BEING DONE.
ARCHITECTURAL FEATURES, EXPANSIC	ON JOINTS OR STRUCTURE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY WORK BEING DONE.
21. SEAL THE ANNULAR SPACE AROUN	OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
INSTALLED WITH AN AUXILIARY DRAIN F LINE OR A WATER LEVEL DETECTION DE WHERE AN AUXILIARY DRAIN PAN IS NO	MENTS FOR APPROVED MATERIALS). DILS, FAN COIL UNITS AND ANY OTHER EQUIPMENT THAT PRODUCES CONDENSATE AND IS LOCATED ABOVE A CEILING OR IN AN ATTIC SHALL BE PAN BENEATH ANY COMPONENT THAT MAY PRODUCE CONDENSATE. INSTALL AN OVERFLOW SAFETY SWITCH IN THE COOLING COIL OVERFLOW DRAI EVICE IN THE PRIMARY DRAIN PAN AND A WATER LEVEL DETECTION DEVICE IN THE AUXILIARY DRAIN PAN. ON DOWNFLOW UNITS OR OTHER EQUIPM DT POSSIBLE, INSTALL A WATER LEVEL DETECTION DEVICE IN THE PRIMARY DRAIN PAN OR AN OVERFLOW SAFETY SWITCH IN THE OVERFLOW DRAIN DN DEVICES (CONFORMING TO UL508) SHALL BE WIRED TO SHUT DOWN THE AIR HANDLING UNIT.
	FAN COIL UNITS AND ANY OTHER EQUIPMENT THAT PRODUCES CONDENSATE SHALL HAVE AN OVERFLOW SAFETY SWITCH IN THE COOLING COIL EVEL DETECTION DEVICE IN THE PRIMARY DRAIN PAN. WATER LEVEL DETECTION DEVICES (CONFORMING TO UL508) SHALL BE WIRED TO SHUT DOWN
	PACES: INSTALL A MINIMUM 4' X 4' X 3/4" THICK LEVEL PLYWOOD SERVICE PLATFORM AT THE SERVICE SIDE OF ALL AIR HANDLING UNITS, FURNACES, WIDE X 3/4" THICK LEVEL PLYWOOD WALKWAY SHALL ALSO BE INSTALLED FROM THE SERVICE PLATFORM TO THE ATTIC ACCESS OPENING.
GALVANIZED STEEL OR ALUMINUM CRC 1'-6" IN WIDTH. ATTIC CROSSINGS MAY I AND COORDINATION DRAWINGS. ALL DI a. INSTALL EQUIPMENT TO ALLOW MA	L COORDINATE SERVICE ACCESS PATHS FOR ROOF AND ATTIC MOUNTED EQUIPMENT REQUIRING ROUTINE MAINTENANCE. PROVIDE CODE COMPLIA DSSING STRUCTURE (E.G. STAIRS WITH HANDRAILS, LADDERS, ETC.) FOR ANY OBSTRUCTION (DUCTWORK, PIPING, ETC.) THAT EXCEEDS 1'-6" IN HEIGH BE CONSTRUCTED OF WOOD IF ALLOWED BY LOCAL CODE. DETAILS OF SUCH CROSSINGS SHALL BE INCLUDED WITH PIPING AND DUCTWORK LAYOUT UCTWORK, PIPING AND EQUIPMENT INSTALLATION SHALL COMPLY WITH THE FOLLOWING: AXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE NOT INDICATED.
INDICATED. c. INSTALL HVAC EQUIPMENT TO FAC	LUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, UNLESS OTHERWISE CILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH STALLATIONS. EXTEND GREASE FITTINGS TO ACCESSIBLE LOCATIONS.
d. INSTALL EQUIPMENT TO ALLOW RIG e. FOR ROOF AND ATTIC MOUNTED E	GHT-OF-WAY FOR PIPING TO BE INSTALLED WITH THE REQUIRED SLOPE. QUIPMENT REQUIRING ROUTINE MAINTENANCE, ALLOW FOR AN UNOBSTRUCTED PATH FROM THE ROOF/ATTIC SERVICE ENTRY POINT TO THE A MINIMUM OF 6'-0" HIGH BY 3'-0" WIDE.
25. ALL PIPE AND DUCT PENETRATION	IS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIF IUFACTURED BY TREMCO, HILTI, 3M, STI, NELSON OR APPROVED EQUAL.
THE ARCHITECTURAL DIVISION. ACCES	BLE CEILINGS AND IN WALLS TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS SHALL BE INSTALLED UN S PANELS IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR WHERE NECESSARY TO ACCESS DAMPERS, VALVES, E ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
FACILITATE INSPECTION AND MAINTEN/	LED AT ALL FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, SMOKE DAMPERS AND WERE INDICATED FOR CEILING RADIATION DAMPERS TO ANCE. PERMANENTLY IDENTIFY THE ACCESS DOOR BY A DIE-CUT LABEL WITH ½" HIGH RED BLOCK LETTERS ON A WHITE BACKGROUND. LABEL SHAL IRE/SMOKE DAMPER", "SMOKE DAMPER" OR "CEILING RADIATION DAMPER".
	LL BE LABELED WITH A 2" HIGH SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFI. SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS.
29. REFER TO ARCHITECTURAL PLANS AND MECHANICAL DRAWINGS.	FOR ALL DROPPED CEILINGS AND SOFFITS. CONTRACTOR SHALL ADVISE ARCHITECT AND ENGINEER OF ANY CONFLICTS BETWEEN ARCHITECTURAL
	FOR FLOOR AND CEILING ASSEMBLY UL RATINGS AND DETAILS. HVAC PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING INDEX OF NOT MORE THAN 50 UNLES
OTHERWISE ALLOWED BY CODE.	R SHALL INSTALL AND LOCATE ALL FIRE SPRINKLER PIPING TO PREVENT PIPING FROM THE POTENTIAL OF FREEZING. THE FIRE SPRINKLER CONTRAC
	CT AND COORDINATE WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS IF HEATING IS REQUIRED. H WOOD TRUSS SHOP DRAWINGS PRIOR TO INSTALLATION.
34. GENERAL CONTRACTOR SHALL CO AND INDIVIDUAL AIR HANDLING UNIT DIS	OORDINATE THE INSTALLATION OF WOOD TRUSS SHOP DRAWINGS AND FIELD TRUSSES TO AVOID WOOD TRUSSES CONFLICTING WITH VERTICAL SHA SCHARGE PLENUMS.
	ROOF CURB SHALL BE FURNISHED WITH THE EQUIPMENT IT SUPPORTS (SUBMIT WITH SHOP DRAWINGS). COORDINATE WITH THE ROOF SYSTEM USE ABOVE THE FINISHED ROOF FOR FLASHING PURPOSES. THE TOP OF THE CURB SHALL BE LEVEL AND THE SLOPE OF THE ROOF SHALL BE
	IT BE INSTALLED IN ELECTRICAL ROOMS, TELECOM ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT FOR DUCTWORK AND PIPING SERVING THAT NG SHALL NOT BE ROUTED ABOVE ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE ARTICLE 110.
PROPER ROOFING SYSTEM FLASHING A THE ROOF.	TRATIONS AND CURBS SHALL BE AT LEAST 12 INCHES APART FROM OTHER ROOF PENETRATIONS, CURBS, WALL, AND DRAIN SUMP TO ALLOW FOR AND DETAILING. ROOF OPENINGS SHALL BE A MINIMUM OF 10'-0" FROM A PARAPET WALL AND A MINIMUM OF 5'-0" FROM A FIRE WALL EXTENDING THRU
39. ROOFTOP EQUIPMENT WIND RESIS	SHALL BE LOCATED A MINIMUM OF 10'-0" FROM THE EDGE OF THE ROOF OR PARAPET. STANCE: THE CONTRACTOR SHALL PROVIDE SUPPORT FOR MECHANICAL ROOFTOP EQUIPMENT IN ORDER TO MEET CODE REQUIRED WIND RESISTAN
	E. MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND

40. HURRICANE AND HIGH WIND REGIONS - EQUIPMENT THAT IS LOCATED ON THE ROOF SHALL BE SECURED TO THE ROOF STRUCTURE PER DETAILS ON THE DRAWINGS. MANUFACTURER'S RECOMMENDATIONS AND, AS A MINIMUM, FEMA 549, APPENDIX E, ATTACHMENT OF ROOFTOP EQUIPMENT IN HIGH-WIND REGIONS.

THE 2020 FLORIDA BUILDING CODE. MECHANICAL. THE 2020 FLORIDA BUILDING CODE. DNSERVATION, STATE AND LOCAL AMENDMENTS, NFPA 70 (NEC), 90A, 96, 101,

UIT, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF THE MECHANICAL E THE DRAWINGS BUT REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT ID ENGINEERING DRAWINGS REGARDING DIMENSIONS. SCALE, ETC., NOTIFY THE

D BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS OR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM. IFY ALL EXISTING CONDITIONS. DUCTWORK SIZES AND LOCATIONS. EQUIPMENT. ETC.

RING DIAGRAMS, INSTALLATION, OPERATION AND MAINTENANCE MANUALS, AHRI RATING CAUSE FOR REJECTION OF THE SUBMITTAL. ED BY A LICENSED PROFESSIONAL ENGINEER.

NOTED BY THE TAG USED ON THE DRAWINGS AND SPECIFICATION SECTION PERTAINING

ES CONDENSATE AND IS LOCATED ABOVE A CEILING OR IN AN ATTIC SHALL BE TE. INSTALL AN OVERFLOW SAFETY SWITCH IN THE COOLING COIL OVERFLOW DRAIN ON DEVICE IN THE AUXILIARY DRAIN PAN. ON DOWNFLOW UNITS OR OTHER EQUIPMENT PRIMARY DRAIN PAN OR AN OVERFLOW SAFETY SWITCH IN THE OVERFLOW DRAIN LINE DOWN THE AIR HANDLING UNIT.

ONDENSATE SHALL HAVE AN OVERFLOW SAFETY SWITCH IN THE COOLING COIL /EL DETECTION DEVICES (CONFORMING TO UL508) SHALL BE WIRED TO SHUT DOWN THE

SERVICE PLATFORM AT THE SERVICE SIDE OF ALL AIR HANDLING UNITS, FURNACES, FAN STALLED FROM THE SERVICE PLATFORM TO THE ATTIC ACCESS OPENING. OUNTED EQUIPMENT REQUIRING ROUTINE MAINTENANCE. PROVIDE CODE COMPLIANT C.) FOR ANY OBSTRUCTION (DUCTWORK, PIPING, ETC.) THAT EXCEEDS 1'-6" IN HEIGHT X

REVENT PIPING FROM THE POTENTIAL OF FREEZING. THE FIRE SPRINKLER CONTRACTOR ONTRACTORS IF HEATING IS REQUIRED.

S AND FIELD TRUSSES TO AVOID WOOD TRUSSES CONFLICTING WITH VERTICAL SHAFTS

ORTS (SUBMIT WITH SHOP DRAWINGS). COORDINATE WITH THE ROOF SYSTEM USED SO P OF THE CURB SHALL BE LEVEL AND THE SLOPE OF THE ROOF SHALL BE

ROOF OR PARAPET. IANICAL ROOFTOP EQUIPMENT IN ORDER TO MEET CODE REQUIRED WIND RESISTANCE ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND

41. STORAGE AND PROTECTION OF STORED MATERIALS:

a. DURING CONSTRUCTION, ALL EQUIPMENT SHALL BE PROPERLY PROTECTED AGAINST DAMAGE, DEFACING AND FREEZING WITH SHIPPING CARTONS, PLASTIC SHEETING, SHIPPING

COVERS, ETC. b. ALL OPEN ENDS OF PIPING AND EQUIPMENT SHALL BE SEALED WITH NIPPLES AND CAPS, PLUGS, AND TEST PLUGS UNTIL FINAL CONNECTION TO SYSTEM IS MADE. c. ALL EQUIPMENT, PIPING AND DUCTWORK SHALL BE PROTECTED TO PREVENT ENTRANCE OF FOREIGN MATTER AND DEBRIS BY COVERING EXPOSED OPENINGS DURING CONSTRUCTION. d. HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS. e. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.

f. PROTECT EQUIPMENT AND AIR DISTRIBUTION SYSTEMS AS OUTLINED IN SMACNA'S IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION, LATEST EDITION. TESTING, ADJUSTING AND BALANCING (COMMERCIAL PROJECTS)

1. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR AND WATER QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT THE CERTIFIED (AABC OR NEBB) TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL.

2. ALL PARKING GARAGE MECHANICAL VENTILATION SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO PROVIDE AIR QUANTITIES INDICATED. IN ADDITION, THE COMPLETE SYSTEM OPERATION (FANS, SENSORS, CONTROLS, SEQUENCE OF OPERATION, ETC.) SHALL BE CERTIFIED BY THE MANUFACTURER. THE MANUFACTURER SHALL SUBMIT A LETTER STATING THAT THE SYSTEM IS OPERATING AS DESIGNED AND IS IN SAFE AND PROPER WORKING ORDER.

3. VENTILATION AIR DISTRIBUTION SYSTEMS (OUTDOOR AIR AND EXHAUST AIR) SHALL BE BALANCED TO ACHIEVE THE AIRFLOW RATES INDICATED ON THE DRAWINGS. AIR DISTRIBUTION SYSTEMS (SUPPLY AIR, RETURN AIR {IF APPLICABLE}, OUTDOOR AIR AND EXHAUST AIR) SHALL BE BALANCED TO ACHIEVE THE AIRFLOW RATES INDICATED ON THE DRAWINGS THESE AIRFLOW RATES SHALL BE CONSIDERED MINIMUM RATES. THE MEASURED AIR BALANCE TOLERANCE FOR BOTH OUTDOOR AIR AND EXHAUST AIR RATES SHALL BE 0% TO +10%. 4. INCLUDE TAB FOR ALL KITCHEN EXHAUST HOODS, FANS, MAKE-UP AIR SYSTEMS, ETC. MEASURE AND RECORD AIRFLOW, STATIC PRESSURE, AND AIR TEMPERATURES AT HOOD EXHAUST

INLETS, HOOD MAKE-UP AIR OUTLETS AND HOOD CONDITIONED AIR OUTLETS (IF APPLICABLE).

MECHANICAL/ELECTRICAL COORDINATION:

1. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR. 2. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS. DISCONNECT SWITCH SHALL BE FURNISHED BY MECHANICAL FOR INSTALLATION BY ELECTRICAL. DISCONNECT SWITCHES SHALL NOT BE MOUNTED ON THE EQUIPMENT IT SERVES UNLESS INTEGRAL TO THE UNIT. 3. PROVIDE ALL SYSTEM CONTROLS AND ASSOCIATED CONTROL AND INTERLOCK WIRING FOR COMPLETE AND OPERABLE SYSTEMS. 120 VOLT AND HIGHER WIRING SHALL BE MC CABLE OR IN CONDUIT IN ACCORDANCE WITH LOCAL CODES AND THE MATERIALS AND INSTALLATION REQUIREMENTS OF DIVISION 26 - ELECTRICAL. 4. COORDINATE POWER AND FIRE ALARM REQUIREMENTS OF ALL COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS WITH THE ELECTRICAL CONTRACTOR. 5. ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS. 6. UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE DIVISION 26 CONTRACTOR. 7. MAINTAIN REQUIRED NEC CLEARANCES FOR ALL POWERED MECHANICAL EQUIPMENT. THE CLEAR WIDTH SHALL BE THE WIDTH OF THE EQUIPMENT OR 2'-6" (MINIMUM). THE FOLLOWING CLEARANCE IN FRONT OF THE EQUIPMENT SHALL BE:

a. FOR 208/240V EQUIPMENT: 3'-6" CLEARANCE b. FOR 480V EQUIPMENT: 3'-6" CLEARANCE: CONDITION 1 – OPEN AREA, NO OBSTRUCTIONS; 3'-6" CLEARANCE – CONDITION 2 – GROUNDED EQUIPMENT, OR CONCRETE/STEEL WALL ON OPPOSING SIDE; 4' CLEARANCE - CONDITION 3 - LIVE PARTS TO LIVE PARTS.

8. CLEARANCES FOR ELECTRIC DUCT HEATERS AND LOW VOLTAGE CONTROL PANELS LOCATED ABOVE CEILINGS: THE CONTRACTOR SHALL COORDINATE AND PLAN THE WORK TO ALLOW FOR A CLEAR SPACE IN FRONT OF ALL ELECTRIC DUCT HEATER CONTROL PANELS (INCLUDING, BUT NOT LIMITED TO AHUS, FCUS, VAVs, PIUs, UHs, ETC.) OF 42" X 30" WIDE (OR THE WIDTH OF THE PANEL WHICHEVER IS GREATER). THE CONTROL PANEL DOOR SHALL BE ALLOWED TO OPEN AT LEAST 90 DEGREES. EQUIPMENT WITHOUT DUCT HEATERS THAT HAVE LOW VOLTAGE CONTROL PANELS SHALL HAVE A MINIMUM CLEAR SPACE IN FRONT OF THE PANEL OF 24" X 24" WIDE (OR THE WIDTH OF THE PANEL WHICHEVER IS GREATER

9. ROUTING OF PIPING AND DUCTWORK SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES DURING THE SUBMITTAL AND LAYOUT PHASE. PIPING AND DUCTWORK SHALL NOT BE ROUTED THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE EACH LOAD CENTER. 10. MOTORS CONTROLLED BY A VARIABLE FREQUENCY DRIVE (VFD) SHALL BE INVERTER DUTY MOTORS DESIGNED ACCORDING TO THE REQUIREMENTS OF NEMA MG 1, PART 31, "DEFINITE

PURPOSE, INVERTER FED MOTORS" AND SHALL BE COMPATIBLE WITH THE PARTICULAR MANUFACTURER'S DRIVE THAT IS USED. 11. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE REQUIRED SHORT CIRCUIT CURRENT RATING OF THE PANELBOARD SERVING THE EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING. DUCT SMOKE DETECTORS:

ALL FANS SUPPLYING MORE THAN 2000 CFM OF AIR TO ANY SPACE SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE RETURN DUCTWORK DUCT SMOKE DETECTORS SHALL BI INSTALLED IN THE RETURN AIR PATH OF AIR DISTRIBUTION SYSTEMS UTILIZING A COMMON SUPPLY AND/OR RETURN AIR PLENUM WITH A COMBINED DESIGN CAPACITY GREATER THAN 2000 CFM.

2. THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE, AND SIGNAL THE BUILDING FIRE ALARM CONTROL PANEL. THE SMOKE DETECTOR SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, MOUNTED IN THE DUCT BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. AIR DISTRIBUTION:

1. SUPPLY, RETURN AND O.A. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE, LATEST EDITION.

a. SNAP-LOCK LONGITUDINAL SEAMS ARE NOT ALLOWED UNLESS SECURED WITH SHEET METAL FASTENING SCREWS AS RECOMMENDED BY SMACNA.

2. DUCTWORK IN FOOD SERVICE ESTABLISHMENTS SHALL BE IN ACCORDANCE WITH SMACNA'S FOOD GRADE DUCTWORK AND SHEET METAL GUIDELINES. 3. TAPES, SEALANTS AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M" FOR MASTIC/SEALANT.

4. SEAL THE ANNULAR SPACE AROUND ALL DUCT PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS AIRTIGHT WITH AN APPROVED MATERIAL (RE: ARCHITECTURAL DRAWINGS FOR APPROVED MATERIALS).

5. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-C". 6. SHEETMETAL DUCT SEALING:

a. ALL JOINTS AND SEAMS IN ALL SHEETMETAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.

b. SEAL, INSPECT AND TEST SHEETMETAL DUCTWORK PRIOR TO INSULATING OR CONCEALING. SEAL ALL DUCTWORK AND PLENUMS TO MEET SMACNA SEAL CLASS A. c. SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS. d. PRESSURE-SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT, UNLESS IT HAS BEEN CERTIFIED TO COMPLY WITH UL-181A OR UL-181B BY AN INDEPENDENT TESTING LABORATORY AND THE TAPE IS USED IN ACCORDANCE WITH THAT CERTIFICATION. e. ALL CONNECTIONS SHALL BE SEALED, INCLUDING BUT NOT LIMITED TO SPIN-IN FITTINGS, TAPS, OTHER BRANCH CONNECTIONS, ACCESS DOORS, AND DUCT CONNECTIONS TO FQUIPMENT

f. SEALING THAT WOULD VOID PRODUCT LISTINGS IS NOT REQUIRED. g. SPIRAL LOCK SEAMS NEED NOT BE SEALED.

7. EXTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL (G 90 MINIMUM) WITH ALL SEAMS CAULKED AND SEALED WEATHERTIGHT AND COATED WITH A RUST PREVENTIVE COATING OVER THE ENTIRE DUCT SURFACE. RUST PREVENTATIVE COATING SHALL BE "RUST DESTROYER" BY ADVANCE PROTECTIVE PRODUCTS, INC., OR APPROVED EQUAL. SLOPE OR CROWN DUCTWORK AT 1/4" PER FOOT TRANSVERSELY TO PREVENT STANDING WATER ON TOP OF DUCTWORK. ALSO, REFER TO INSULATION NOTE 1e BELOW FOR INSULATION REQUIREMENTS.

8. ALL OPEN-ENDED DUCTS AND FAN OUTLETS SHALL HAVE 1/2" X 1/2" HARDWARE CLOTH (WMS) AFFIXED TO THE OPENING.

9. EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL (G 90 MINIMUM) CONSTRUCTED TO SMACNA STANDARDS AND SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE. 10. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE PER SMACNA STANDARDS.

11. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL BY FLEXMASTER, QUIETFLEX, ATCO, JM LAMBORN, OR ROYAL METAL PRODUCTS. PROVIDE A MINIMUM INSULATION VALUE OF R-6: R-8 WHEN LOCATED OUTSIDE THE THERMAL ENVELOPE OF THE BUILDING. OR GREATER WHERE REQUIRED BY APPLICABLE ENERGY CODE. AIR CONNECTORS ARE NOT ACCEPTABLE. FLEX DUCT DIAMETER SHALL MATCH DEVICE NECK DIAMETER. PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAINTAIN A MAXIMUM FLEXIBLE DUCT LENGTH OF 8' 0" FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.

12. ROUND AND FLEXIBLE SUPPLY AIR DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH A CONICAL TYPE SPIN IN FITTING WITH MANUAL VOLUME DAMPER (EXCEPT WHERE INSTALLED ABOVE INACCESSIBLE CEILINGS, THE DAMPER SHALL BE OMITTED AND PROVIDED IN THE AIR DEVICE NECK).

13. TAPE, BED AND SEAL AIR-TIGHT ALL PENETRATIONS FROM RETURN AIR PLENUMS TO NON-RETURN AIR PLENUMS THAT ARE REQUIRED DUE TO DUCTWORK, PIPING OR OTHER ITEMS.

14. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS. 15. EXTERNAL STATIC PRESSURE (ESP) DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.

16. INSTALL FIRE, SMOKE, COMBINATION FIRE/SMOKE, AND CEILING RADIATION DAMPERS IN ACCORDANCE WITH MANUFACTURER'S UL INSTALLATION INSTRUCTIONS AND SMACNA'S FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS.

17. INSTALL FIRE DAMPERS IN ALL RATED WALLS AND FLOOR PENETRATIONS. FIRE DAMPERS SHALL BE THE DYNAMIC TYPE WITH BLADES OUT OF THE AIRSTREAM WHERE POSSIBLE. ALL FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.

18. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH FIRE AND SMOKE RATINGS OR ARCHITECTURAL SHAFTS, THE DAMPERS INSTALLED SHALL BE COMBINATION FIRE AND SMOKE DAMPERS. ALL SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555S. ALL COMBINATION FIRE AND SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555 AND U.L. 555S. POWER WIRING TO TEST SWITCH AND ACTUATOR SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

19. INSTALL CEILING RADIATION DAMPERS IN ALL MEMBRANE PENETRATIONS OF FIRE RATED FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES WHERE NOT OTHERWISE PROTECTED WITH A RATED SHAFT, ALL CEILING RADIATION DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. 555C. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES. WHERE NECESSARY, PROVIDE DUCT ACCESS DOOR AND CEILING ACCESS PANEL (RE: ARCH. DWGS. FOR RATED ACCESS PANEL SPECIFICATION)

20. DUCT ACCESS DOORS: PROVIDE ACCESS DOORS IN DUCTWORK AT EACH FIRE, COMBINATION FIRE/SMOKE AND SMOKE DAMPER LOCATION 21. PROVIDE ALL OUTDOOR AIR INTAKES AND EXHAUST OPENINGS WITH MOTORIZED OR GRAVITY DAMPERS IN ACCORDANCE WITH THE LOCAL ENERGY CODE. DAMPERS SHALL CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING.

22. LOCATIONS OF GRILLES, REGISTERS, AND DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTURAL REFLECTED CEILING PLAN.

24. DUCTWORK CONNECTING KITCHEN EXHAUST HOODS TO EXHAUST FANS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL WITH WELDED SEAMS OR SHALL BE A UL TESTED AND LISTED FACTORY BUILT GREASE DUCT SYSTEM (RE: SPEC SECTION 23 09 00). ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE REQUIREMENTS OF LOCAL CODE AUTHORITIES AND NFPA 96 REQUIREMENTS (FACTORY BUILT GREASE DUCT SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS). INSTALL GASKETED ACCESS DOORS AT 20' ON CENTER AND AT EACH CHANGE OF DIRECTION. ACCESS DOORS IN VERTICAL DUCT RUNS SHALL BE LOCATED 12" AFF IN A COMMON AREA (NOT WITHIN DWELLING UNITS).

23. WHERE BALANCING DAMPERS CANNOT BE ACCESSED FROM BELOW THE CEILING, PROVIDE A REMOTE OPERATED DAMPER, YOUNG REGULATOR OR EQUAL.

25. DISHWASHER EXHAUST DUCTWORK ABOVE THE CEILING SHALL BE EITHER 18-GAUGE STAINLESS STEEL OR 16-GAUGE ALUMINUM. ALL SEAMS AND JOINTS SHALL BE WELDED LIQUID-TIGHT. DISHWASHER EXHAUST RISERS AND TRIM COLLARS BELOW THE CEILING SHALL BE 18-GAUGE, TYPE 304 STAINLESS STEEL FINISHED IN A 180 GRIT POLISHED FINISH. ALL DISHWASHER EXHAUST DUCTWORK SHALL SLOPE DOWN TOWARD THE DISHWASHER CONNECTIONS AT 1/4" PER FOOT AND BE CONSTRUCTED WITH NO POCKETS WHICH WILL TRAP CONDENSATION.

26. DUCTWORK INSTALLED WITHIN OPEN ATTIC SPACES SHALL BE GALVANIZED STEEL. DUCTBOARD AND FLEX DUCT IS ALLOWABLE WHERE SERVING DWELLING UNIT SUPPLY AIR SYSTEMS. 27. FLEXIBLE DUCT CONNECTORS SHALL BE USED TO CONNECT DUCTWORK AND PLENUMS TO FAN-ROTATING EQUIPMENT; PROFLEX BY DUCTMATE OR APPROVED EQUAL. INDOOR FLEXIBLE CONNECTORS SHALL BE 26 OZ/SQ. YD. GLASS FABRIC DOUBLE COATED WITH NEOPRENE. OUTDOOR FLEXIBLE CONNECTORS SHALL BE 24 OZ/SQ. YD. GLASS FABRIC DOUBLE COATED WITH WEATHERPROOF SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OZONE. FABRICS, COATINGS AND ADHESIVES SHALL BE TESTED IN ACCORDANCE WITH UL 701 AND HAVE A FLAME SPREAD/ SMOKE DEVELOPED RATING OF 25/50. FLEXIBLE DUCT CONNECTORS SHALL ALSO BE PROVIDED WHERE DUCTWORK CROSSES BUILDING EXPANSION JOINTS.

28. INTERIOR DUCTWORK TO BE PAINTED SHALL HAVE ALL EXPOSED SURFACES (INCLUDING HANGER STRAPS) COATED WITH A "PAINT GRIP" FINISH FOR FIELD PAINTING. AS AN OPTION, MILL PHOSPHATIZED STEEL DUCTWORK MAY BE USED. LINE OR INSULATE PER HVAC GENERAL NOTES OR SPEC SECTION 23 07 00. [OPTION FOR OWNER REQUESTED HIGH-END FINISHED SPACE: DUCTWORK SHALL BE POLISHED TO A SMOOTH FINISH. INCLUDING BRANCH TAKE-OFFS, GRIND WELDS TO PROVIDE A SMOOTH SURFACE FREE OF BURRS, SHARP EDGES AND WELD SPLATTER. EXPOSED WELDS SHALL BE GROUND FLUSH, POLISHED, AND TREATED TO REMOVE DISCOLORATION CAUSED BY WELDING. CONTRACTOR SHALL MAINTAIN CONSISTENCY, SYMMETRY, AND UNIFORMITY IN THE ARRANGEMENT AND FABRICATION OF FITTINGS, HANGERS AND SUPPORTS, DUCT ACCESSORIES, AND AIR OUTLETS.]

29. EXPOSED DOUBLE-WALL, INSULATED ROUND OR FLAT OVAL DUCT AND FITTINGS SHALL BE BY McGILL AIRFLOW LLC (OR EQUAL BY LINX INDUSTRIES OR SEMCO, INC.). DUCT SYSTEM SHALL HAVE SPIRAL LOCKSEAM (OR WELDED) GALVANIZED SHEET METAL OUTER SHELL. 1" THICK COATED ACOUSTICAL LINER, AND A PERFORATED SHEET METAL INNER LINER. 30. PROTECT DUCTS EXPOSED IN FINISHED SPACES FROM BEING DENTED, SCRATCHED, OR DAMAGED. TRIM DUCT SEALANTS FLUSH WITH METAL TO CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. TWO-PART TAPE SEALING SYSTEMS ARE NOT ALLOWED. REPAIR OR REPLACE DAMAGED DUCTWORK AND FINISH WORK THAT DOES NOT COMPLY WITH THESE

REQUIREMENTS. 31. INSTALL DUCTWORK SUCH THAT LINE-OF-SIGHT IS ELIMINATED BETWEEN RETURN AIR REGISTERS/GRILLES AND AIR HANDLING UNITS, FAN COIL UNITS AND ROOFTOP UNITS. INSULATION:

BELOW:

1. DUCT INSULATION: a. DUCT WRAP SHALL BE UL LISTED FIBERGLASS BLANKET INSULATION WITH FOIL VAPOR BARRIER, JOHNS MANVILLE MICROLITE EQ FSK OR APPROVED EQUAL. PUNCTURES AND TEARS IN THE FOIL JACKET SHALL BE PATCHED WITH FOIL TAPE TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSULATE SHEET METAL DUCTWORK IN THE THICKNESSES AND DENSITIES LISTED i. SHEET METAL SUPPLY AND OUTSIDE AIR DUCTWORK: 2" THICK, 1 LB/FT3 DENSITY, R-6 MINIMUM INSTALLED. ii. SHEET METAL RETURN DUCTWORK IN NON-AIR-CONDITIONED AREAS (SUCH AS INTERSTITIAL SPACES AND FLOOR/CEILING ASSEMBLIES): 2" THICK, 1 LB/FT3 DENSITY, R-6 MINIMUM INSTALLED. iii. ALL SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE THERMAL ENVELOPE OF THE BUILDING (INCLUDING CRAWL SPACES AND ATTIC SPACES): 3" THICK, 3/" LB/FT3 DENSITY, R-8 MINIMUM INSTALLED b. INDOOR EXPOSED RECTANGULAR SHEET METAL SUPPLY AND RETURN AIR DUCTWORK SHALL BE LINED WITH 1" THICK DUCT LINER (MINIMUM R-4) JOHNS MANVILLE LINACOUSTIC RC OR EQUAL c. INDOOR EXPOSED ROUND, SPIRAL AND OVAL SUPPLY AND RETURN AIR DUCT SHALL BE LINED WITH 1" THICK ROUND DUCT LINER (MINIMUM R-4), JOHNS MANVILLE SPIRACOUSTIC PLUS OR EQUAL. d. INDOOR EXPOSED ROUND AND SPIRAL OUTSIDE AIR DUCT SHALL BE INSULATED WITH 1" THICK PREFORMED FIBROUS GLASS PIPE INSULATION WITH VAPOR BARRIER JACKET IK-VALUE NOT TO EXCEED 0.23 BTU in/hr ft².°F (0.033 W/m K) WHEN TESTED IN ACCORDANCE WITH ASTM C 335 at 75°F (24°C)]; JOHNS MANVILLE MICRO-LOK OR APPROVED EQUAL. e. EXTERIOR DUCTWORK SHALL BE LINED WITH 2" THICK DUCT LINER BOARD (MINIMUM R-8, JOHNS MANVILLE PERMACOTE: LINACOUSTIC R-300 OR EQUAL, COAT THE EXTERIOR OF THE ENTIRE DUCT SURFACE WITH A RUST INHIBITIVE PAINT. PAINTING BY MECHANICAL. SUBMIT COLOR CHART TO THE ARCHITECT DURING THE SUBMITTAL PHASE. ALTERNATE EXTERNAL INSULATION SYSTEMS: 1) THERMADUCT OUTDOOR DUCT SYSTEM HAVING A MINIMUM R-VALUE OF 8. THE SYSTEM SHALL UTILIZE NON-FIBROUS CLOSED CELL KINGSPAN KOOLDUCT FORTIFIED INNER LINER COMPLIANT TO UL (C-UL) 181, STANDARD FOR SAFETY LISTED, CLASS 1 SYSTEM AND SMACNA CLASS 1 LEAKAGE, OR LESS. SUBMIT PRODUCT DATA AND LAYOUT DRAWINGS DURING THE SUBMITTAL PHASE. FOR PROJECTS LOCATED WITHIN 20 MILES OF THE SEACOAST, FLANGES AND HARDWARE SHALL BE ALUMINUM (ALLOY 3003 - H14 TEMPER PER ASTM B209); 2) SHEET METAL DUCTWORK WITH CLASS B FOIL FACED POLYISOCYANURATE FOAM INSULATION HAVING A MINIMUM R-VALUE OF 8 APPLIED TO THE EXTERIOR WITH WEATHER RESISTANT WHITE FLEXIBLE CLADDING, ALUMAGUARD LITE WHITE BY POLYGUARD. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS; 3) SHEET METAL DUCTWORK WITH PHYSICALLY CROSSLINKED CLOSED CELL POLYOLEFIN FOAM INSULATION HAVING A MINIMUM R-VALUE OF 8 WITH FACTORY APPLIED HEAVY DUTY MULTILAYER COMPOSITE FOIL FACING WITH A UV AND WEATHER DURABLE COATING; THERMOBREAK NO-CLAD INSULATION BY SEKISUI VOLTEK. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. CROWN OR SLOPE DUCTWORK AT 1/4" PER FOOT TRANSVERSELY TO PREVENT STANDING WATER ON TOP OF DUCTWORK. f. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE INSULATED, WHERE REQUIRED, PER NFPA 96 AND LOCAL CODE REQUIREMENTS. KITCHEN HOOD SUPPLY DUCTWORK SHALL BE INSULATED AS SPECIFIED FOR HVAC SUPPLY DUCTWORK. EXPOSED DUCT WRAP INSULATION SYSTEMS SHALL BE PROTECTED WHERE SUBJECT TO PHYSICAL DAMAGE. g. DUCT LINER FOR ACOUSTICS: LINE ALL SUPPLY AND RETURN SHEETMETAL DUCTWORK A MINIMUM OF 15' 0" (OR AS INDICATED OR SPECIFIED HEREIN) UPSTREAM AND DOWNSTREAM OF ALL AIR HANDLING UNITS, ROOFTOP UNITS, FAN COIL UNITS AND TERMINAL UNITS. DUCT LINER FOR RECTANGULAR DUCTS SHALL BE 11/2" THICK, (MINIMUM R-6 OR GREATER WHERE REQUIRED BY APPLICABLE ENERGY CODE) JOHNS MANVILLE LINACOUSTIC RC OR EQUAL. 1) THE LEADING EDGE OF THE DUCT LINER SHALL HAVE A SHEETMETAL NOSING. 2) EXPOSED EDGES AND BUTT JOINTS SHALL BE "BUTTERED" WITH DUCT SEALER.) LINED DUCTWORK DOES NOT REQUIRE ADDITIONAL EXTERIOR INSULATION WHERE LINER MEETS REQUIRED R-VALUES. I) RETURN AIR TRANSFER DUCTS, ELBOWS AND SOUND BOOTS SHALL BE LINED WITH 1" THICK LINER UNLESS OTHERWISE NOTED.

5) DUCT LINER SHALL BE INTERRUPTED AT ALL FIRE. SMOKE. COMBINATION FIRE/SMOKE AND RADIATION DAMPERS.

h. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR PAINTING OF DUCTWORK, INSULATION, ETC. IN EXPOSED INTERIOR AREAS. APPROVED FIRE RATED ASSEMBLY

DUCT LINER SHALL BE INTERRUPTED NOT LESS THAN 6" UPSTREAM AND 6" DOWNSTREAM OF ELECTRIC-RESISTANCE AND FUEL-BURNING HEATERS IN A DUCT SYSTEM. i. DUCTWORK PENETRATING SMOKEPROOF ENCLOSURES SHALL BE WRAPPED USING A U.L. LISTED AND APPROVED 2-HOUR RATED FIRE WRAP INSULATING SYSTEM OR ENCLOSED IN AN 2. PIPE INSULATION: a. CONVENTIONAL SPLIT SYSTEMS – REFRIGERANT PIPING INSTALLED OUTDOORS SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC TUBING WITH FACTORY APPLIED UV RESISTANT DURABLE PROTECTIVE JACKET, ARMAFLEX SHIELDTM (K FACTOR 0.25 BTU·IN/HR·FT^{2.}°F) CONTINUOUS COIL PIPE INSULATION AS MANUFACTURED BY ARMACELL, LLC OR ALTERNATES LISTED BELOW, WHEN THE PRODUCT IS AVAILABLE IN THE REQUIRED PIPE SIZE AND INSULATION WALL THICKNESS. NO FIELD APPLIED PROTECTIVE COATING OR FINISH SHALL BE USED WITH THIS INSULATION. LONGITUDINAL AND BUTT JOINTS SHALL BE SEALED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. POLYETHYLENE FOAM INSULATION IS NOT ACCEPTABLE. ACCEPTABLE ALTERNATE ELASTOMERIC PRODUCT 1) K-FLEX USA: K-FLEX TITANTM (K-FACTOR: 0.245 HR•FT2•°F/BTU (0.035 M2•°C/W) AT 75°F (24°C) MEAN TEMPERATURE) b. REFRIGERANT PIPING INSTALLED INDOORS: SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC TUBING INSULATION, AP/ARMAFLEX BLACK LAPSEALTM PIPE INSULATION AS MANUFACTURED BY ARMACELL, LLC OR ALTERNATES LISTED BELOW. ALL JOINTS AND SEAMS SHALL BE SEALED WEATHERTIGHT WITH ARMAFLEX BLACK LAPSEALTM TAPE. BLACK LAPSEALTM TAPE SHALL ALSO BE USED TO SECURE THE THERMOSTAT CABLE TO THE PIPE INSULATION. POLYETHYLENE FOAM INSULATION IS NOT ACCEPTABLE.

MUELLER STREAMLINE DURAGUARD UV (K-FACTOR: 0.245 HR•FT²*F/BTU (0.035 M²*C/W) AT 75°F (24°C) MEAN TEMPERATURE).

ACCEPTABLE ALTERNATE PRODUCTS: 1) AEROFLEX, USA, INC.; AEROCELL-SSPTTM (K-FACTOR: 0.245 HR•FT²*°F/BTU (0.035 M²*°C/W) AT 75°F (24°C) MEAN TEMPERATURE) WITH PROTAPE AND TWO COATS OF FIELD APPLIED AEROCEL AEROCOAT. (AEROCEL AEROCOAT REQUIRED FOR OUTDOOR INSTALLATION ONLY). 2) K-FLEX USA, LLC., K-FLEX INSUL-LOCK DS (K-FACTOR: 0.245 HR•FT²*°F/BTU (0.035 M²*°C/W) AT 75°F (24°C) MEAN TEMPERATURE) (INDOOR USE ONLY) 3) MUELLER STREAMLINE ELASTOMERIC INSULATION (K-FACTOR: 0.245 HR•FT²•°F/BTU (0.035 M²•°C/W) AT 75°F (24°C) MEAN TEMPERATURE) (INDOOR USE ONLY). c. INSULATION THICKNESS SHALL BE [PER SPECIFICATION SECTION 23 23 00].

d. VRF/VRV SYSTEM INSULATION – REFER TO SPECIFICATION SECTION 23 23 00 FOR REQUIREMENTS. e. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITHIN THE BUILDING'S THERMAL ENVELOPE WITH SECTIONAL PREFORMED FIBERGLASS PIPE INSULATION (K FACTOR NOT TO EXCEED 0.23 BTU IN/HR FT2 °F) WITH VAPOR BARRIER JACKET: JOHNS MANVILLE MICRO-LOK OR APPROVED EQUAL. ACCEPTABLE ALTERNATE: CLOSED CELL ELASTOMERIC: AP ARMAFLEX WITH LAP SEAL. THICKNESS SHALL BE MANUFACTURER'S RECOMMENDED THICKNESS TO PREVENT CONDENSATION ON THE EXTERIOR OF THE JACKET; MINIMUM THICKNESS SHALL BE 1/2" FOR PIPE SIZES UP TO AND INCLUDING 11/4" AND 1" THICKNESS FOR PIPE SIZES 11/2" AND LARGER. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. f. INSULATE ALL CHILLED WATER SUPPLY (CHWS), CHILLED WATER RETURN (CHWR), HOT WATER SUPPLY (HWS), AND HOT WATER RETURN (HWR) PIPING WITH SECTIONAL PREFORMED

FIBERGLASS PIPE INSULATION (K FACTOR NOT TO EXCEED 0.23 BTU IN/HR FT².°F) WITH VAPOR BARRIER JACKET; JOHNS MANVILLE MICRO-LOK OR APPROVED EQUAL. FITTINGS, VALVES AND PIPING SPECIALTIES SHALL BE PROVIDED WITH FORMED FITTING COVERS BY PROTO PVC CORPORATION. SEE SPECIFICATIONS FOR INSULATION THICKNESSES AND ADDITIONAL INFORMATION. ALL EXPOSED INSULATED PIPING BELOW 10' 0" AFF SHALL BE PROTECTED BY A CORRUGATED ALUMINUM JACKET WITH ALUMINUM BANDS 3' 0" O.C. INSULATE ALL EXTERIOR COOLING WATER PIPING WITH 11/2" CELLULAR GLASS INSULATION (PITTSBURGH CORNING FOAMGLAS OR APPROVED EQUAL) OVER ELECTRIC HEAT TRACING. COVER WITH VAPOR BARRIER AND A CORRUGATED ALUMINUM JACKET WITH BANDS 3' 0" O.C. AND FORMED FITTING COVERS BY PROTO PVC CORPORATION.

GAS FLUES (U.L. LISTED):

1. GAS FLUE MATERIAL SHALL BE AS RECOMMENDED BY THE HEATING APPLIANCE MANUFACTURER EXCEPT THAT WHERE POLYVINYL CHLORIDE (PVC) IS ALLOWABLE FOR CATEGORY II AND IV APPLIANCES, PROVIDE A UL TESTED AND LISTED POLYPROPYLENE (PP) GAS VENTING SYSTEM; POLYFLUE, POLYPRO, INNOFLUE OR APPROVED EQUAL. PVC IS ACCEPTABLE FOR COMBUSTION AIR PIPING. CERTAIN APPLIANCES MAY REQUIRE AL29-4C VENTING MATERIAL IN CONFORMANCE WITH UL 1738.

2. SIZING AND ROUTING RESTRICTIONS SHALL BE PER MANUFACTURER'S REQUIREMENTS. 3. TERMINATE ALL GAS FLUE PIPING TO THE OUTDOORS THROUGH ROOF OR EXTERIOR WALL. TERMINATION SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND FLASHED AND SEALED WEATHERTIGHT.

<u>PIPING</u>:

1. REFRIGERANT PIPING SHALL BE TYPE L OR ACR (AIR CONDITIONING AND REFRIGERATION FIELD SERVICE) COPPER TUBING WITH BRAZED JOINTS. FOR VRF/VRV SYSTEM PIPING REFER TO SPECIFICATION SECTION 23 23 00 FOR REQUIREMENTS.

2. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS.

3. SEAL THE ANNULAR SPACE AROUND ALL PIPING PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS AIRTIGHT WITH AN APPROVED MATERIAL (RE: ARCHITECTURAL DRAWINGS FOR APPROVED MATERIALS). 4. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST PLUMBING DRAIN. CONDENSATE PIPING SHALL BE INSULATED TYPE M

COPPER OR INSULATED SCHEDULE 40 PVC (IN HVAC PLENUMS USE INSULATED TYPE M COPPER). CPVC PIPING IS NOT ALLOWED. CONDENSATE SHALL BE PUMPED AS REQUIRED. CONDENSATE PUMP SHALL BE TESTED TO COMPLY WITH UL 2043 FOR PLENUM APPLICATIONS; LITTLE GIANT VCCA SERIES. PVC EXPOSED TO THE WEATHER SHALL BE PAINTED WITH A LIGHT-COLORED ACRYLIC OR LATEX ULTRAVIOLET (UV) AND OZONE INHIBITOR PAINT THAT IS CHEMICALLY COMPATIBLE WITH PVC.

5. PROVIDE MANUAL OR AUTOMATIC AIR VENT (WITH DRAIN) AT HIGH POINTS OF ALL RECIRCULATING WATER PIPING SYSTEMS.

6. PIPING AT PUMPS AND EQUIPMENT SHALL BE SUPPORTED SO THAT NO PIPING OR ACCESSORY LOAD IS CARRIED BY THE PUMP OR EQUIPMENT.

7. PIPE SUPPORTS AND HANGERS:

a. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS. b. VERTICAL RUNS SHALL BE SUPPORTED AT THE ROOF, EACH FLOOR AND AT 10' INTERVALS BETWEEN FLOORS. c. UNLESS NOTED OTHERWISE, CONDENSATE DRAIN AND REFRIGERANT PIPING ROUTED ON THE ROOF SHALL BE SUPPORTED WITH UV RESISTANT RUBBER SUPPORT SYSTEM; MIFAB C

SERIES OR EQUAL BY DURA-BLOK. d. ROOF MOUNTED PIPING SHALL BE SUPPORTED AT 6' INTERVALS WITH PIPE STANDS, FRAMING SYSTEMS, ROLLER STANDS, CURBS, ETC. SUPPORT SHALL BE PROVIDED AT EACH CHANGE OF DIRECTION AND AT BRANCH TAKE-OFFS. SUBMIT LAYOUT DRAWINGS AND PRODUCT INFORMATION DURING THE SUBMITTAL PHASE.

8. WHERE MAXIMUM OPERATING PRESSURE IS GREATER THAN 150 PSIG IN ANY SYSTEM, CONTRACTOR SHALL FURNISH AND INSTALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES WITH PRESSURE CLASSIFICATIONS THAT ARE SUITABLE FOR SERVICE. IN GENERAL, ALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES BELOW 350 FEET OF THE HIGHEST PIPING POINT MUST HAVE PRESSURE RATINGS OF 300 PSI W.O.G. OR GREATER. ALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES BELOW 575 FEET OF THE HIGHEST PIPING POINT MUST HAVE PRESSURE RATINGS OF 500 PSI W.O.G. OR GREATER.

9. EXPANSION IN PIPING SYSTEMS SHALL BE COMPENSATED FOR USING U-BENDS, Z-BENDS OR EXPANSION JOINTS AS INDICATED. U-BENDS (LOOPS) AND Z-BENDS SHALL BE COMPLETE WITH PIPE GUIDES AND ANCHORS. EXPANSION COMPENSATION IN PIPING RISERS OVER 100 FEET IN LENGTH SHALL BE MADE WITH ENGINEERED SYSTEMS; EITHER SPRING TYPE ISOLATORS AND CENTRAL ANCHOR SYSTEM (BY MASON INDUSTRIES) OR FLEXIBLE HOSE EXPANSION LOOPS (METRALOOP AS MANUFACTURED BY THE METRAFLEX COMPANY). REFER TO SPECIFICATION SECTION 23 21 13 FOR ADDITIONAL REQUIREMENTS.

10. WHERE PIPING CROSSES BUILDING EXPANSION JOINTS, PROVIDE SPHERICAL RUBBER FLEXIBLE CONNECTORS. AS SPECIFIED ABOVE, REFER TO SPECIFICATION SECTION 23 21 13 FOR ADDITIONAL REQUIREMENTS.



Drawn By: STH Checked By: SP

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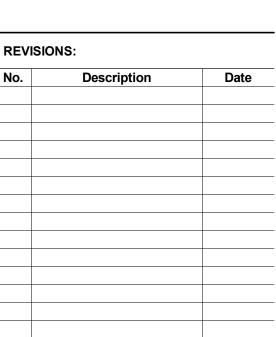
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CONSTRUCTION

DOCUMENTS

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2038 NTS

ð F) A/C AAV ABV AC ACC ACCH ACCF AD AFF AFG AFUE AH AHJ AHU	ROUND FUTURE ABOVE CEILING AUTOMATIC AIR VENT ABOVE AIR CONDITIONING AIR COOLED CONDENSER	IH IN IRH KEF KW	INTAKE HOOD INCH INFRARED HEATER KITCHEN HOOD EXHAUST FAN		ENSATE [
A/C AAV ABV ACC ACCF ACCH ACCF ADD AFF AFG AFUE AH AHJ	ABOVE CEILING AUTOMATIC AIR VENT ABOVE AIR CONDITIONING	IRH KEF	INFRARED HEATER		
NBV NCC NCCH NCF ND NDD NFF NFG NFUE NH NHJ	ABOVE AIR CONDITIONING				GERANT-
CC CCH CF D DD FF FG FUE H HJ			KILOWATT	REF-S-REFRIC	GERANT-
Ξ		LAT LB	LEAVING AIR TEMPERATURE POUND	REF-HG-REFRIC	GERANT-I
) ; IE	AIR COOLED CHILLER AIR CURTAIN FAN	LB/HR LP	POUNDS PER HOUR LOW PRESSURE	FOV FUEL C	DIL VENT
F G UE J	ACCESS DOOR	LPG	LIQUEFIED PETROLEUM GAS	FOF	DIL FILL
ig iue I IJ	ADDENDUM ABOVE FINISHED FLOOR	LSW LWT	LOW SIDEWALL (12" AFF) LEAVING WATER TEMPERATURE	FOS-FOS-FUEL C	DIL SUPPL
J	ABOVE FINISHED GRADE ANNUAL FUEL UTILIZATION EFFICIENCY	MAT	MIXED AIR TEMPERATURE MAKE-UP AIR UNIT	— — — — FOR— — — FUEL C	DIL RETUR
	AIR HANDLER	Mau Mav	MARE-OP AIR UNIT MANUAL AIR VENT	2" PIPE SI	ZE TAG (
	AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT	MAX MBH	MAXIMUM ONE THOUSAND BTU PER HOUR	ABOVE	GROUNE
T	ALTERNATE	MD	MOTORIZED DAMPER	PIPE SL	_OPE TAG
LUM D	ALUMINUM ACCESS PANEL	MECH MFR	MECHANICAL MANUFACTURER	<u>1/8" / 12" SLOPE</u> BELOW	GROUN
	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM MISCELLANEOUS	(E) (E) EXISTIN	NG PIPE 1
	AIR SEPARATOR BOILER	MISC MOV	MOTORIZED VALVE		BEING D
IS ID	BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER	MT MTR	MOUNT MOTOR		D WATE
	BOOSTER FAN	MU/A	MAKE-UP/AIR	CHILLE	D WATE
F W	BELOW FINISHED FLOOR BELOW	MVD N/A	MANUAL VOLUME DAMPER NOT APPLICABLE	CWR CONDE	NSER W
DD D	BOTTOM OF DUCT BYPASS DAMPER	NC NC	NOISE CRITERIA NORMALLY CLOSED (FAIL CLOSED)	CWS-CONDE	NSER W
ΓU	BRITISH THERMAL UNITS	NIC	NOT IN CONTRACT	GEOTH	IERMAL V
UH	BRITISH THERMAL UNITS PER HOUR AIR COMPRESSOR	NO NO	NUMBER NORMALLY OPEN (FAIL OPEN)	GEOTH	IERMAL V
	COMBUSTION AIR	NTS	NOT TO SCALE		IG WATE
NP)	CAPACITY CONDENSATE DRAIN	OA OAF	OUTSIDE AIR OUTSIDE AIR FAN		NG WATE
EH =	CEILING HEATER CIRCULATION FAN	OAU OBD	OUTSIDE AIR UNIT OPPOSED BLADE DAMPER		RESSURE
M	CUBIC FEET PER MINUTE	OC	ON CENTER		M PRESS
+ +	WATER-COOLED CHILLER CHILLER	OD OED	OUTSIDE DIAMETER OPEN ENDED DUCT		RESSURI
⊣P _G	CHILLED WATER PUMP COOLING	OPG ORD	OPENING OVERFLOW ROOF DRAIN		RESSURE
C	CLEAN OUT	PCHP	PRIMARY CHILLED WATER PUMP		M PRESS
op Rd	COEFFICIENT OF PERFORMANCE CEILING RADIATION DAMPER	PD PDU	PRESSURE DROP POOL DEHUMIDIFICATION UNIT		RESSUR
RP T	CONDENSATE RECEIVER & PUMP COOLING TOWER	PER	POOL EQUIPMENT ROOM		RED WAT
l J	AIR COOLED CONDENSING UNIT	PIU PLBG	FAN-POWERED INDUCTION UNIT PLUMBING		
JH V	CABINET UNIT HEATER COLD WATER	POC	POINT OF CONNECTION PRESSURE		L WATER
WP	CONDENSER WATER PUMP	PRV	PRESSURE REDUCING VALVE		
٩D	DEGREE DUCT ACCESS DOOR	PSI PSIG	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE		
3	DRY BULB	PTAC	PACKAGED TERMINAL AIR CONDITIONER		
CU E	DUCTLESS CONDENSING UNIT DISHWASHER EXHAUST	PTHP R	PACKAGED TERMINAL HEAT PUMP RISE		
:H C	DUCTLESS COOLING ONLY FAN COIL DUCTLESS HEATPUMP FAN COIL	RA RAG	RETURN AIR RETURN AIR GRILLE		
ΙP	DUCTLESS HEATPUMP	RCP	RADIANT CEILING PANEL	PIPE	FITTINGS
A N	DIAMETER DOWN	REC RED	RECESSED REDUCER		
5 5	DEW POINT DUCT SILENCER	REG	REGISTER (AIR DEVICE WITH FACE		Т Î
N	EXHAUST AIR	RLA	OPERATED BALANCING DAMPER) RELIEF AIR	PIPE TEE FROM BOTTOM	
T H	ENTERING AIR TEMPERATURE ELECTRIC BASEBOARD HEATER	RH RH	RELIEF HOOD RELATIVE HUMIDITY	BOTTOM	<u>ر</u>
	EXHAUST FAN	RHG	REFRIGERANT HOT GAS		
EC PF	ELECTRICAL ELEVATOR PRESSURIZATION FAN	RL RL/A	REFRIGERANT LIQUID RELIEF AIR		
QUIP	EQUIPMENT EXHAUST REGISTER	RM	ROOM		
ิ รบ	ENERGY RECOVERY UNIT	RPM RS	REVOLUTIONS PER MINUTE REFRIGERANT SUCTION	PIPE ACCES	SSUDA L
RV SP	ENERGY RECOVERY VENTILATOR EXTERNAL STATIC PRESSURE	RTU S/A	ROOF TOP UNIT SUPPLY AIR		
	EXPANSION TANK	SA	SUPPLY AIR	GATE VALVE	
JH NC	ELECTRIC UNIT HEATER ELECTRIC WATER COOLER	SCHP SCU	SECONDARY CHILLED WATER PUMP WATER-COOLED SELF-CONTAINED	ANGLE GATE VALVE	
WH WT	ELECTRIC WALL HEATER		AIR CONDITIONING UNIT SMOKE DAMPER		
<	ENTERING WATER TEMPERATURE EXISTING	SD SEER	SEASONAL ENERGY EFFICIENCY RATIO	GLOBE VALVE	_k
KIST	EXISTING DEGREES FAHRENHEIT	SEF SENS	SMOKE EXHAUST FAN SENSIBLE		\$ \$
•	FURNACE	SF	SUPPLY FAN		
A CU	FREE AREA FAN COIL UNIT	SF SG	SQUARE FOOT SUPPLY GRILLE	l	 x
)	FLOOR DRAIN FIRE DAMPER	SM SPF	SURFACE MOUNT		—
	FLOOR	SR	STAIR PRESSURIZATION FAN SUPPLY REGISTER		
))F	FUEL OIL FUEL OIL FILL	SS SSF	STAINLESS STEEL (TYPE 316 UNO) SOLIDS SEPARATION FILTRATION UNIT		<u>م</u> م - ا
R	FUEL OIL RETURN	STM	STEAM		
OS OT	FUEL OIL SUPPLY FLAT ON TOP	T TD	THERMOSTAT TRANSFER DUCT		~
OV	FUEL OIL VENT	TD TE	TEMPERATURE DROP	SD- SUCTION DIFFUSER	—×
PM SCP	FEET PER MINUTE FIREFIGHTERS SMOKE CONTROL PANEL	TEMP	TOILET EXHAUST TEMPERATURE		
SD T HD	COMBINATION FIRE/SMOKE DAMPER H2O FEET OF WATER	TOD TSTAT	TOP OF DUCT THERMOSTAT		
Г	FOOT/FEET	TWP	TEMPERED WATER PUMP	k RELIEF VALVE	_Ē
AL C	GALLON GENERAL CONTRACTOR	TXR TYP	TRANSFER TYPICAL		
E EF	GREASE EXHAUST GARAGE EXHAUST FAN	UCD UG	UNDER CUT DOOR UNDERGROUND	스 AUTOMATIC AIR VENT	
РМ	GALLONS PER MINUTE	UNO	UNLESS NOTED OTHERWISE	MANUAL AIR VENT	<u> </u>
R	GRILLE (AIR DEVICE WITHOUT A BALANCING DAMPER)	V VAV	VENT VARIABLE AIR VOLUME		
UH	GAS FIRED UNIT HEATER	VENT	VENTILATION	·····································	$-\mathbb{C}$
WP	GLYCOL WATER PUMP HUMIDISTAT	VFD VRV/VR	VARIABLE FREQUENCY DRIVE F VARIABLE REFRIGERANT VOLUME	COMBO PRESSURE/	V
EX >	HEAT EXCHANGER HEAT PUMP	VTAC	VARIABLE REFRIGERANT FLOW VERTICAL PACKAGED TERMINAL AC UNIT	TEMP TEST PORT	+4
P	HORSE POWER	VTAC	VARIABLE VOLUME/VARIABLE TEMPERATURE		
SPF TG	HEATING SEASONAL PERF HEATING	WB	TERMINAL UNIT WET BULB		
V	HEATING AND VENTILATING UNIT	WC	WATER COLUMN	<u> </u>	
VLS W	HIGH VOLUME LOW SPEED HOT WATER	WG WL	WATER GAUGE WALL LOUVER	2" GAUGE COCK	
WP	HOT WATER PUMP	WMS	WIRE MESH SCREEN		$-\!\!\otimes$
) EER	INSIDE DIAMETER INTEGRATED ENERGY	WSHP ZD	WATER SOURCE HEAT PUMP ZONE DAMPER	CO	U U
	EFFICIENCY RATIO			4	
	DEMOLITION	ABBRE	VIATIONS		
E)	EXISTING TO REMAIN	(N) 1	IEW	1	
= <i>)</i> ER)	EXISTING TO REMAIN	(R) F	REMOVE REMOVE AND REPLACE		

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BOLS	MECHANIC		
	MECHANICA	AL SYMBOLS	MECHANICAL SHEET INDEX
	REVISION NUMBER - SHOWN ON PLANS		
		LINEAR DIFFUSER TAG	M-001 GENERAL NOTES - HVAC M-002 SYMBOLS AND ABBREVIATIONS LEGEND - HVAC
IT-LIQUID	POINT WHERE NEW CONNECTS TO EXISTING	TYPE (SEE SCHEDULE)	M-003 DETAILS - HVAC
	POINT WHERE DEMO CONNECTS TO EXISTING	↓ J 8" → NECK SIZE	M-004 DETAILS - HVAC
IT-HOT GAS			M-005 CHILLED WATER FLOW DIAGRAM - HVAC M-006 SCHEDULES - HVAC
NT			M-007 SCHEDULES - HVAC
-	NUMBER OF SHEET WHERE DETAIL APPEARS	AIRFLOW SYMBOLS	M-008 COMPLIANCE - HVAC
PPLY	T KEYNOTE	I → SUPPLY I < RETURN / INTAKE / UCD 1" UNDERCUT DOOR	M-009 COMPLIANCE - HVAC M-010 VENTILATION CALCULATIONS
ΓURN	CONTINUATION SYMBOL	EXHAUST	M-011 LOAD CALCULATIONS
G (DIAMETER)			M-012 LOAD CALCULATIONS
IND PIPING (NEW)	ROOM NAME AND NUMBER		M-101 BASEMENT FLOOR PLAN - HVAC M-111 GROUND FLOOR PLAN - HVAC
TAG		DAMPER TAGS	M-111.1 GROUND FLOOR PLAN - HVAC - A
JND PIPING	ITEM TO BE DEMOLISHED		M-111.2 GROUND FLOOR PLAN - HVAC - B
E TAG	AREA NOT IN CONTRACT		M-112 ATTIC PLAN - HVAC M-112.1 ATTIC PLAN - HVAC - A
G DEMOLISHED		SMOKE DAMPER S BACKDRAFT DAMPER	M-112.2 ATTIC PLAN - HVAC - B
TER RETURN	PLENUM RATED SOFFIT		M-112.3 ATTIC PLAN - HVAC - PIPING - A M-112.4 ATTIC PLAN - HVAC - PIPING - B
TER SUPPLY	NON-PLENUM RATED SOFFIT		M-401 ENLARGED PUMP ROOM PLAN - HVAC
WATER RETURN			M-402 ENLARGED MEZZANINE PLAN - HVAC
WATER SUPPLY	16x8 NEW SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)		M-403 ENLARGED MEZZANINE PLAN - HVAC M-404 ENLARGED MEZZANINE PLAN - HVAC
L WATER RETURN	16/8 NEW OVAL DUCT SIZE TAG (WIDTH / HEIGHT)		
L WATER SUPPLY			
TER RETURN	16Ø NEW ROUND DUCT SIZE TAG (DIAMETER)		
TER SUPPLY		MECHANICAL EQUIPMENT TAGS	
IRE STEAM (0-15 PSIG)	(E) EXISTING DUCT TAG		
SSURE STEAM (16 TO 100 PSIG)	DUCT BEING DEMOLISHED		
JRE STEAM (ABOVE 100 PSIG)			
IRE STEAM CONDENSATE (0-15 PSIG)	16x824x8DUCT TRANSITION	HP NEW EQUIPMENT HP XX NEW EQUIPMENT XX	
SSURE STEAM CONDENSATE (16 TO 100 PSIG)	FLEX DUCT		
JRE STEAM CONDENSATE (ABOVE 100 PSIG)			
VATER SUPPLY			
VATER RETURN	GRD TAKEOFF	EQUIPMENT BY OTHERS	
ER SUPPLY		EXISTING RELOCATED (REFER TO OTHER DISCIPLINE FOR	
ER RETURN			
	SA SUPPLY AIR		
	COA CONDITIONED OUTSIDE AIR		
	OA OUTSIDE AIR	MECHANICAL EQUIPMENT	
	RA RETURN AIR	AIRFLOW CLEARANCES (AS REQUIRED BY THE	
PIPE TEE		MANUFACTURER)	
	TATATRANSFER AIR		
PIPE TEE FROM TOP	EA EXHAUST AIR		
CAP			
	RLA RELIEF AIR	SENSOR TAGS	
	GE GREASE EXHAUST AIR	EQUIPMENT ID	
(TAGS	SE SMOKE EXHAUST AIR	COMBINATION CO/NO2 SENSOR CN TS VAV XX TEMPERATURE SENSOR	
	FLUE EXHAUST GAS FLUE	COMBINATION CO/METHANE SENSOR CM T THERMOSTAT	
MOTORIZED CONTROL VALVE		HUMIDITY SENSOR HS MS MANUAL SWITCH	
3 WAY MOTORIZED CONTROL VALVE	CA COMBUSTION AIR	HUMIDISTAT H S SENSOR	
		REFRIGERANT LEAK DETECTION ► R ALARM	
	DROP	HORN/STROBE SENSOR R	
S ▷ REFRIGERANT SOLENOID VALVE	DROP 🛇 ROUND SUPPLY/OUTSIDE AIR DUCT RISE		
BUTTERFLY VALVE			
	DROP		
FLEXIBLE CONNECTION	DROP		
AS AIR SEPARATOR			
	DROP		
	DROP 🛛 🚺 ROUND EXHAUST/RELIEF AIR DUCT RISE		
ECCENTRIC REDUCER			
★ ANCHOR			
ALIGNMENT GUIDE			
	GRILLES, REGISTERS & DIFFUSERS TAG		
PRESSURE GAUGE			
PRESSURE SWITCH	SQUARE LAY-IN A 400 CFM		
口FS FLOW SWITCH	CEILING		
©— РИМР	GRILLE/REGISTER		
Y-TYPE STRAINER W/BLOWDOWN VALVE & HOSE CONN.	ROUND AIR DEVICE $(2)^{400}$ $(2)^{-12"}$ $(2)^{-12"}$ $(2)^{-12}$		
	→ 12"		
BASKET STRAINER W/BLOWDOWN VALVE & HOSE CONN.			
V	LINEAR AIR DEVICE $48x3$ WL		
STEAM CONTROL VALVE			
⊗— STEAM TRAP	SIDEWALL GRILLE/ SG5 500 REGISTER SG5 12x10		
			<u>* NOTE *</u>
			THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE
			USED IN THIS SET OF DRAWINGS.
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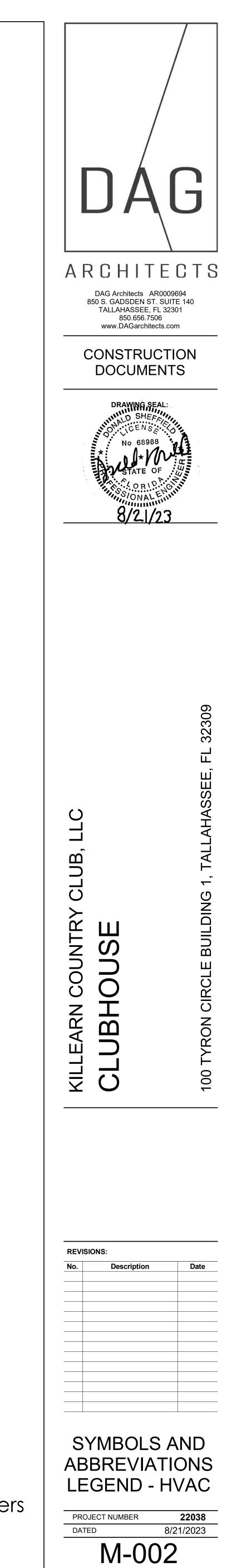


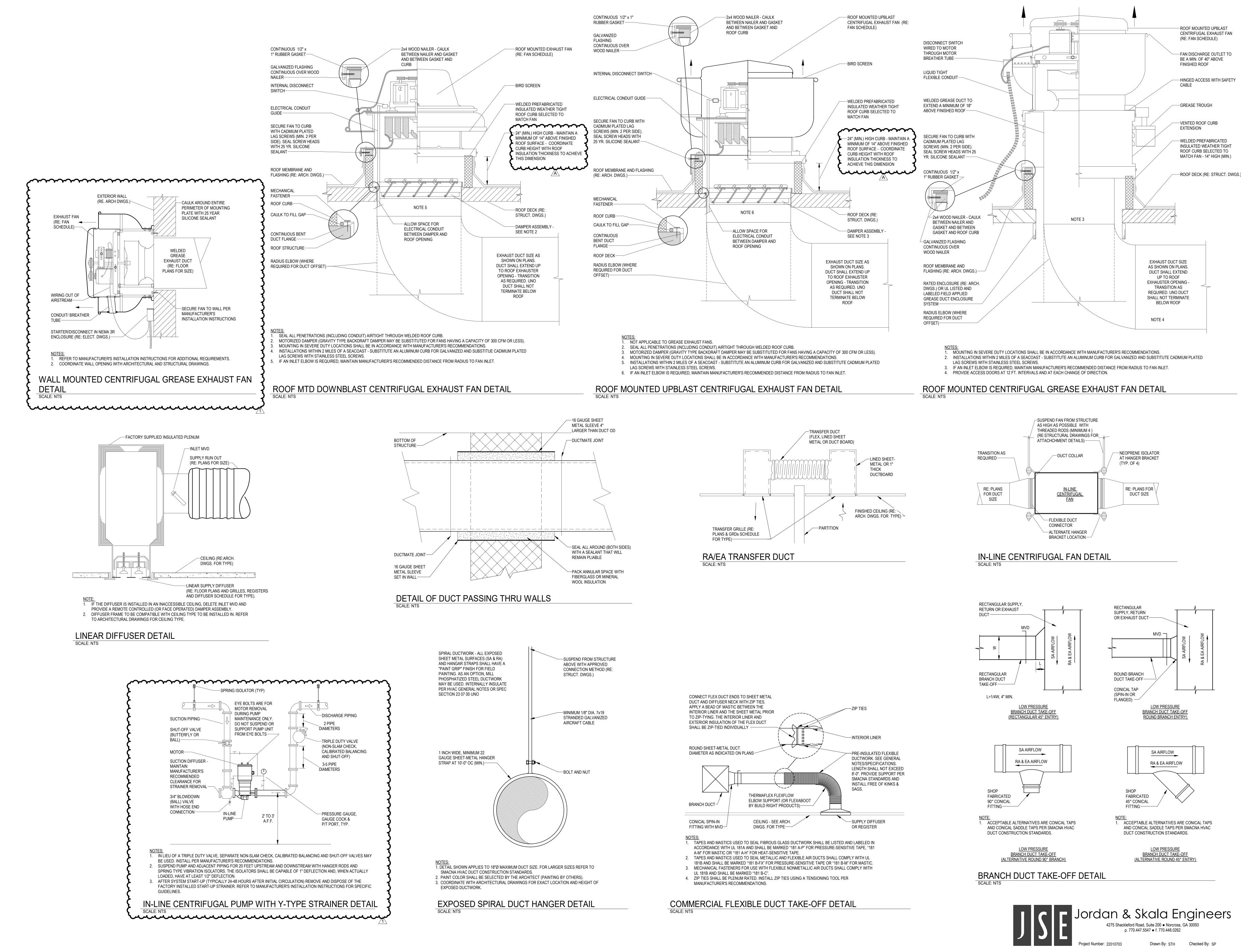
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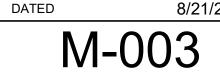
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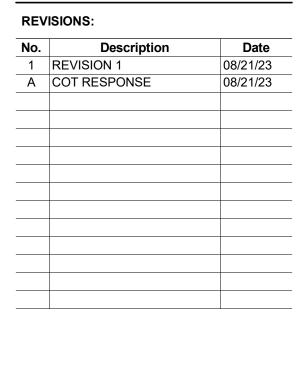
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DETAILS - HVAC

PROJECT NUMBER

22038 8/21/2023





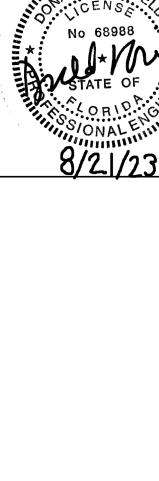


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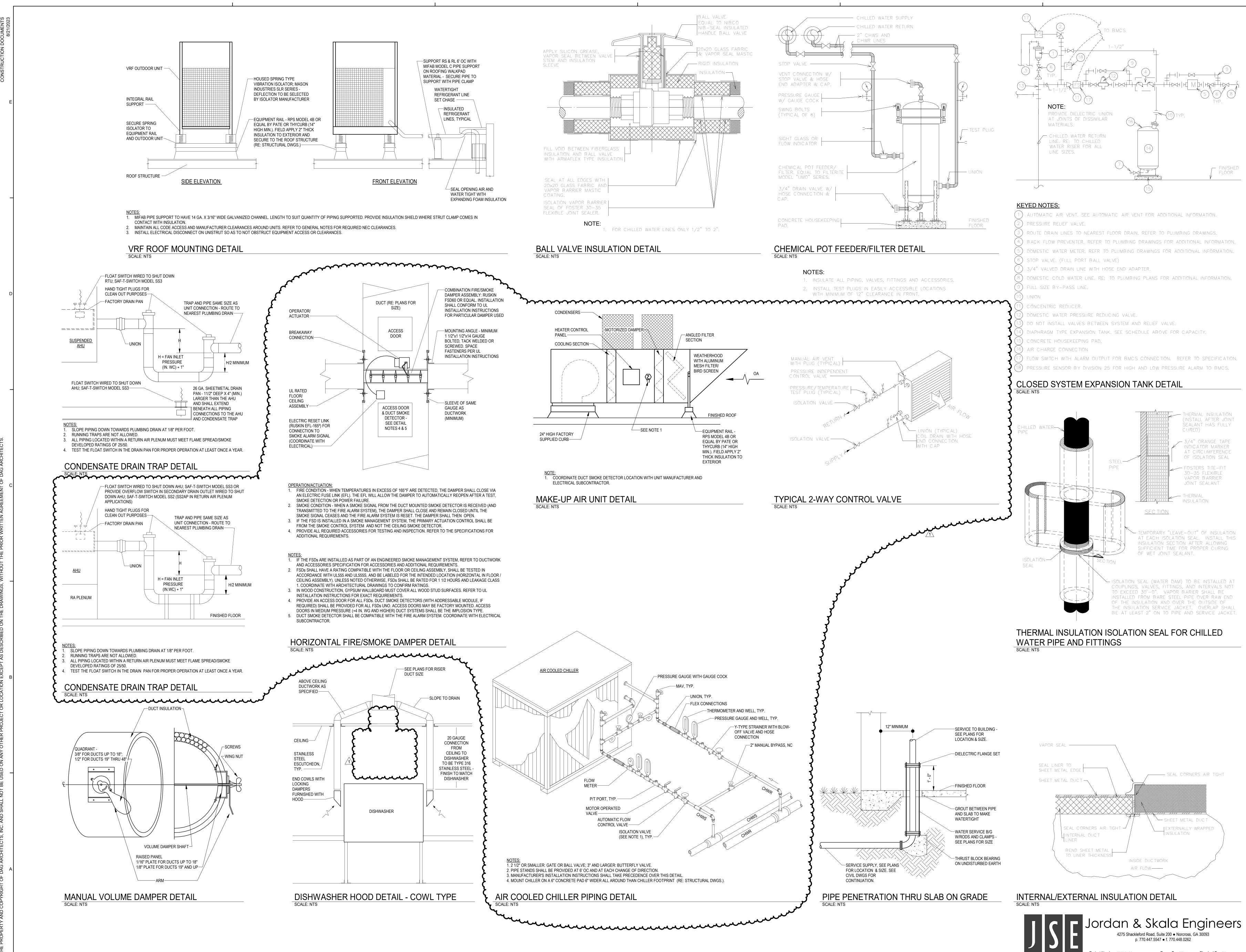












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REVISIONS:

REVISION 1

Description

DETAILS - HVAC

M-004

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8/21/2023

PROJECT NUMBER

DATED

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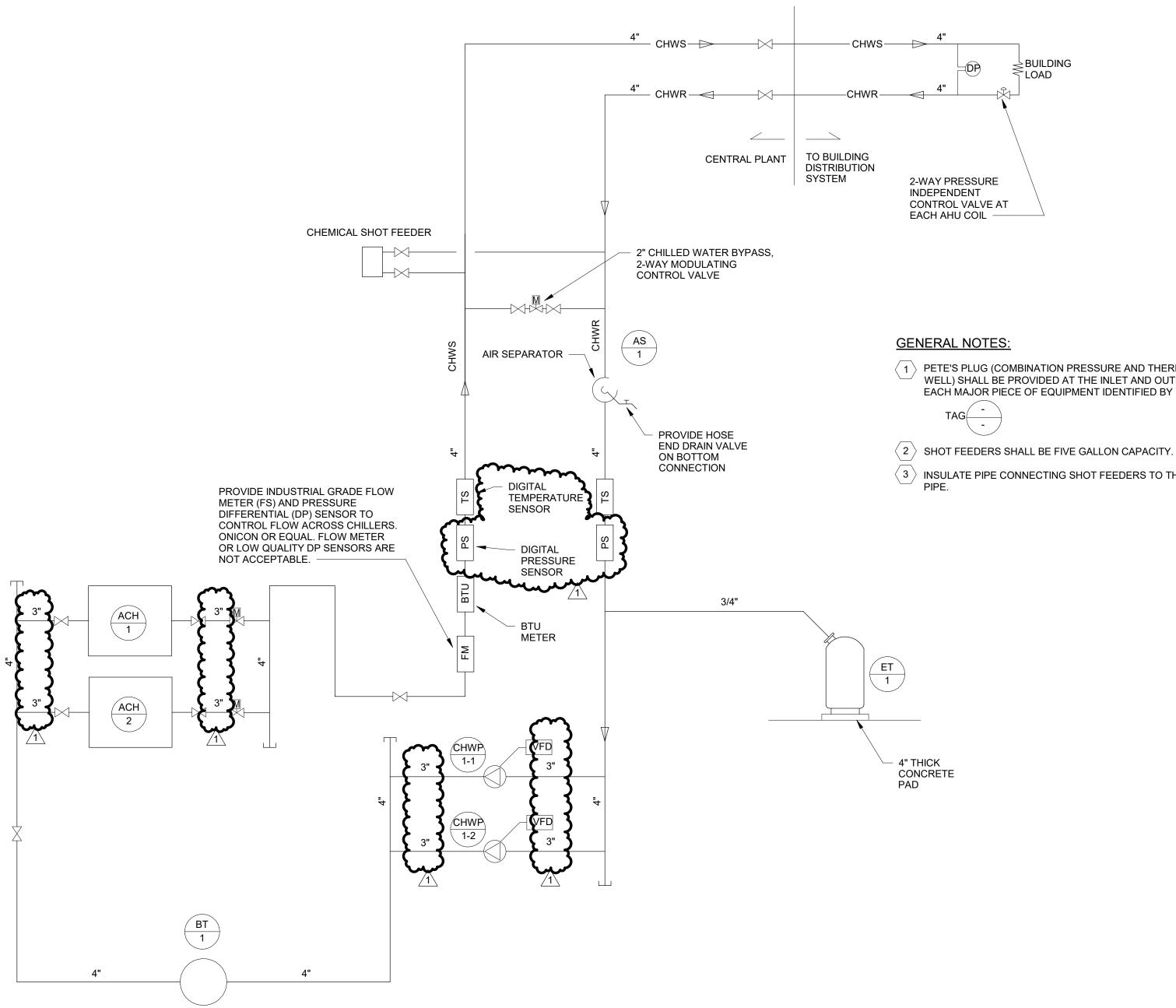
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ARCHITECTS DAG Architects AR0009694 850 S. GADSDEN ST. SUITE 140 TALLAHASSEE, FL 32301 CONSTRUCTION

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1 PETE'S PLUG (COMBINATION PRESSURE AND THERMOMETER WELL) SHALL BE PROVIDED AT THE INLET AND OUTLET OF OF EACH MAJOR PIECE OF EQUIPMENT IDENTIFIED BY

 \langle 3 \rangle INSULATE PIPE CONNECTING SHOT FEEDERS TO THE SYSTEM

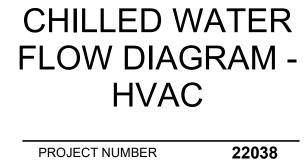
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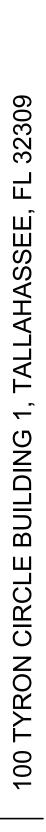
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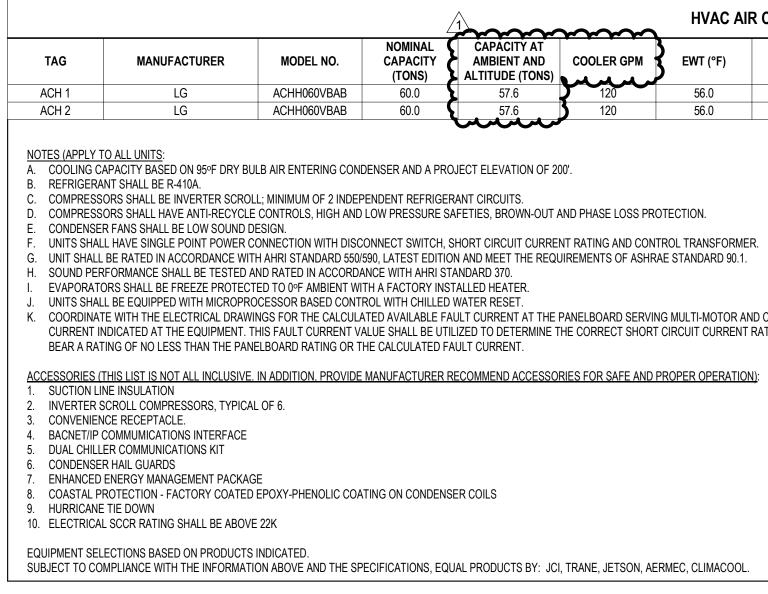


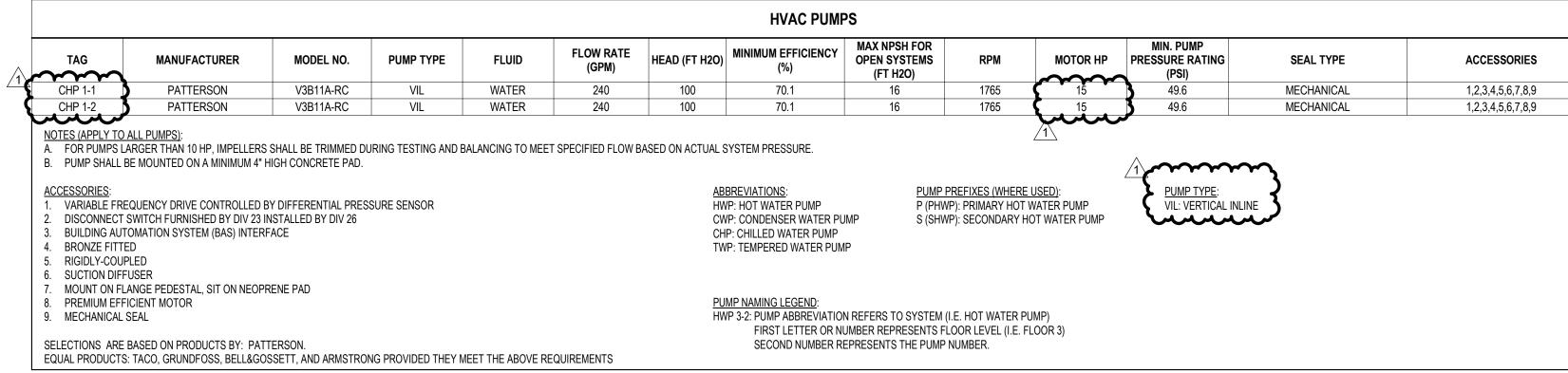


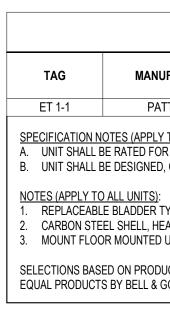


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0.	NOMINAL CAPACITY (TONS)	CAPĂCITY AT AMBIENT AND ALTITUDE (TONS)	COOLER GPM	EWT (°F)	LWT (°F)	MAX COOLER PRESS DROP (FT. H20)	FULL LOAD EER	1 NPLV	SOUND PRESSURE LEVEL (dBA)	APPROX OPERATING WEIGHT (LBS)	ACCESSORIES
BAB	60.0	57.6	120	56.0	42.0	8	10.5	19.5	75.8/55.8	3200	1,2,3,4,5,6,7,8,9,10
BAB	60.0	57.6	120	56.0	42.0	8	10.5	19.5	75.8/55.8	3200	1,2,3,4,5,6,7,8,9,10

D. COMPRESSORS SHALL HAVE ANTI-RECYCLE CONTROLS, HIGH AND LOW PRESSURE SAFETIES, BROWN-OUT AND PHASE LOSS PROTECTION.

B. UNIT SHALL BE RATED IN ACCORDANCE WITH AHRI STANDARD 550/590, LATEST EDITION AND MEET THE REQUIREMENTS OF ASHRAE STANDARD 90.1.

K. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE CALCULATED AVAILABLE FAULT CURRENT AT THE PANELBOARD SERVING MULTI-MOTOR AND COMBINATION-LOAD EQUIPMENT OR THE CALCULATED AVAILABLE FAULT CURRENT INDICATED AT THE EQUIPMENT. THIS FAULT CURRENT VALUE SHALL BE UTILIZED TO DETERMINE THE CORRECT SHORT CIRCUIT CURRENT RATING (SCCR) FOR THE EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION. PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION):

SUBJECT TO COMPLIANCE WITH THE INFORMATION ABOVE AND THE SPECIFICATIONS, EQUAL PRODUCTS BY: JCI, TRANE, JETSON, AERMEC, CLIMACOOL.

CIFICATION NOTES (APPLY TO ALL UNITS): UNIT SHALL BE RATED FOR 125 PSIG MAXIMUM WORKING PRESSURE AND 270°F MAXIMUM OPERATING TEMPERATURE. UNIT SHALL BE DESIGNED, CONSTRUCTED, INSPECTED AND STAMPED PER ASME CODE SECTION VIII, DIVISION 1. UNIT SHALL BE EQUIPPED WITH A REMOVABLE HEAD, BLOWDOWN BALL VALVE WITH HOSE END CONNECTION AND AUTOMATIC AIR VENT.	ſAG	MANUFACTURER	MODEL NUMBER	FLUID	FLOW RATE (GPM)	PD (FT H2O)	SIZE (IN)	ACCESSORIES
CIFICATION NOTES (APPLY TO ALL UNITS): UNIT SHALL BE RATED FOR 125 PSIG MAXIMUM WORKING PRESSURE AND 270°F MAXIMUM OPERATING TEMPERATURE. UNIT SHALL BE DESIGNED, CONSTRUCTED, INSPECTED AND STAMPED PER ASME CODE SECTION VIII, DIVISION 1. UNIT SHALL BE EQUIPPED WITH A REMOVABLE HEAD, BLOWDOWN BALL VALVE WITH HOSE END CONNECTION AND AUTOMATIC AIR VENT.	S 1-1	SPIROTHERM	SR400FAV	WATER	240	5.0	4	1,2
END CONNECTIONS SHALL MATCH END CONNECTIONS IN PIPING SYSTEM.	INIT SHALL BE	DESIGNED, CONSTRUCTED	INSPECTED AND STAMPE	ED PER ASME CO	DE SECTION VIII, DIVIS	ION 1.		

SELECTIONS BASED ON PRODUCTS BY SPIROTHERM. EQUAL PRODUCTS BY BELL & GOSSETT, CALEFFI, ARMSTRONG, TACO, AMTROL PROVIDED THEY MEET OR EXCEED THE SPECIFICATIONS.

MANUFACTURER	MODEL NO.	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	ARRANGEMENT	TANK CHARGE (PSI)	PRESSURE RELIEF VALVE SETTING (PSIG)	DUTY	WEIGHT (LBS)	ACCESSORIES
PATTERSON	NLA-300	79	79	VERTICAL	18	125	CHILLED WATER	225	1,2,3

SPECIFICATION NOTES (APPLY TO ALL UNITS): A. UNIT SHALL BE RATED FOR 125 PSIG MAXIMUM WORKING PRESSURE AND 270°F MAXIMUM OPERATING TEMPERATURE. B. UNIT SHALL BE DESIGNED, CONSTRUCTED, INSPECTED AND STAMPED PER ASME CODE SECTION VIII, DIVISION 1.

1. REPLACEABLE BLADDER TYPE, PRE-CHARGED

2. CARBON STEEL SHELL, HEAVY-DUTY BUTYL RUBBER BLADDER 3. MOUNT FLOOR MOUNTED UNITS ON A 4" THICK CONCRETE HOUSEKEEPING PAD

SELECTIONS BASED ON PRODUCTS BY PATTERSON.

EQUAL PRODUCTS BY BELL & GOSSETT, TACO, AMTROL, ARMSTRONG OR WESSELS, PROVIDED THEY MEET OR EXCEED THE SPECIFICATIONS

			HVAC B	UFFER TANKS			
TAG	MANUFACTURER	MODEL NUMBER	FLUID	VOLUME (GAL)	PD (FT H2O)	FLANGE SIZE (IN)	ACCESSORIES
BT 1-1	ELBI	CWT-120	CHILLED WATER	120	5.0	4	1,2,3,4,5
SPECIFICATION N	IOTES (APPLY TO ALL UNITS):						
A. UNIT SHALL E	BE RATED FOR 125 PSIG MAXIMUN BE DESIGNED, CONSTRUCTED, IN			-	URE.		

ACCESSORIES: INTERNAL BAFFLE

FLANGED CONNECTIONS 8. ASME CERTIFIED

4. HORIZONTAL FLOOR MOUNTED ON A 4" THICK CONCRETE HOUSEKEEPING PAD 5. AIR VENT AND DRAIN

SELECTIONS BASED ON PRODUCTS BY SPIROTHERM. EQUAL PRODUCTS BY BELL & GOSSETT, CALEFFI, ARMSTRONG, TACO, AMTROL PROVIDED THEY MEET OR EXCEED THE SPECIFICATIONS.



6





HVAC

PROJECT NUMBER

DATED

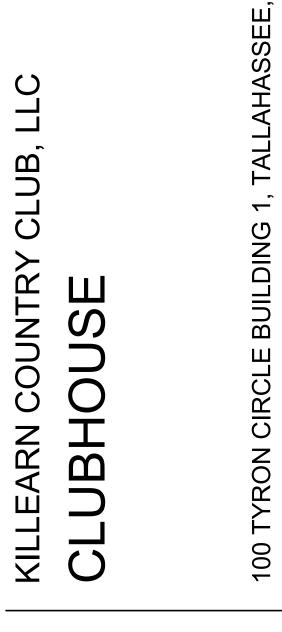
SCHEDULES -

M-006

22038

8/21/2023

REV	ISIONS:	
No.	Description	Date
1	REVISION 1	08/21/23
		1



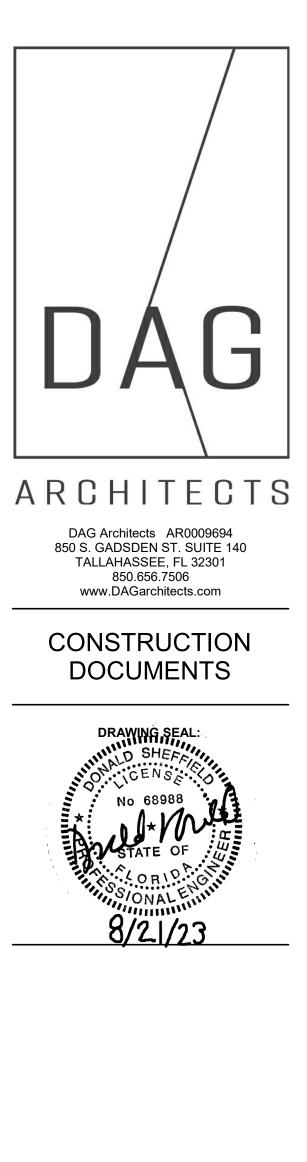


TABLE 1510.10 CLEARANCE BELOW RAI	
WIDTH OF MECHANICAL UNIT (inches)	MINIMUM CLEARANCE ABOVE SURFACES (inches)
< 24	14
24 < 36	18
36 < 48	24
48 < 60	30
> 60	48

		AIR PURIFICATION UNIT	
TAG	MODEL NO.	TOTAL CFM	ACCESSORIES
APU 1	S1000	1000	1,2,3,4
CESSORIES:	ITROLLER TO ACTIVATE UVV LAMP AT () 025 PPM	

																									Н	IVAC VRF DO	AS UNITS										
							HVAC A	R CURTAIN																				COOLING					HEATING		FILTER	S	
							FAN				SOUND LEVEL					TAG OUTDOOF	G MA	ANUFACTURER	MODEL NO. (I	(INDOOR/OUTDOOR	AREA SERV	/ED SUPPLY	FAN ESP (IN W	/G) FAN POW (HP)	ER MIN TOTA	AL CAP MIN S H) (EAT DB (°F)	AT WB (°F)	AT DB N (°F)) LAT ('	MED)		ACCESSORIES
TAG	MA	NUFACTURER	MOE	EL LE	NGTH (IN)	AIRFLOW (CFN		MOTOR		HEATING	(dBA)	WEIGHT (LBS)	ACCESSORIES		DOAS IDU	J-1 DOAS O	DDU-1	LG	ARND2	203/ARUM144	MEZZANINE			1.0	131.	.3	79.2	30.0	93.9	73.9	51.2	125.5	17.1	75.2	2	364	1,2,3,4,5,6
EAC 1		MARS	STD29	3-211	96	2884	2 QIY.	0.5	5	Ν/Δ	68	135	1.2.3		DOAS IDU	J-2 DOAS O	DDU-2	LG	ARND2	203/ARUM144	MEZZANINE	E 2 2000	1.5	1.0	131.	.3	79.2	30.0	93.9	73.9	51.2	125.5	17.1	75.2	2	364	1,2,3,4,5,6
EAC 2		MARS	STD29		96	2884	2	0.	.5	N/A	68	135	1.2.3						APND2	283/ARUM144	MEZZANIN					مسي		\sim				\sim					
1. DOOR LIMIT S 2. MOTOR CONT 3. ADJUSTABLE I SELECTIONS BASE TAG ERH A ERH B ERH C EUH 1-1 NOTES (APPLY TO	TROL PANE MOUNTIN ED ON PRO	G BRACKET DDUCTS BY MARS ANUFACTURER INFRATECH INFRATECH INFRATECH RAYWALL	S AIR SYSTEMS	MODEL N C-15 C-25 C-40 5100		AC ELECTRI RADIANT RADIANT RADIANT UNIT	CAPACI 1. 2. 4.		- - - - 9	15 15 20 25		CESSORIES 2,3,5 2,3,6 2,3,7 1,2,3,4			B. MINIMU C. UNITS S D. UNITS S E. REFER F. ESP DO G. PRIMAF H. IN DEHI I. UNITS S J. HORIZO K. ENTHAI L. UNITS S M. PROVIE N. COORD CURRE A RATIN O. SUSPEI <u>ACCESSORI</u> 1. SMOKE 2. FILTER 3. DISCON 4. CONDE 5. FOR PR 6. AIRFLO	IM CAPACITIES SCH SHALL HAVE DC ECM SHALL BE CAPABLE TO SPECIFICATIONS DES NOT INCLUDE C RY CONDENSATE SH UMIDIFICATION MOE SHALL BE EQUIPPED DNTAL AND CONCEA LPY SENSOR IN THE SHALL BE EQUIPPED DE MANUFACTURER DINATE WITH THE EL NT INDICATED AT TI NG OF NO LESS THA NDED WITH MINIMUI ES (THIS LIST IS NO E DETECTOR MOUNT BOX WITH MERV 13 VNECT SWITCH FUR ROTECTION FROM S W MONITORING ST/ S BASED ON MANUF	HEDULED ABOVE IN SM FAN MOTORS OF E OF OPERATING IN NSFOR ADDITIONAL COIL, FILTER, CASII SHALL BE SIZED, TR DDE, THE UNIT SHALL DUTH CONDENSA ALED UNITS SHALL E INLET AIRSTREAT DUTH A CLASS 1, R STARTUP AND RE ELECTRICAL DRAWIN THE EQUIPMENT. TH AN THE PANELBOA JM 1" DEFLECTION OT ALL INCLUSIVE ITED IN SUPPLY SU 3 FILTERS RNISHED BY MECHA SEA COAST ENVIRO FACTURER INDICA	NCLUDE DE-RATING I NCLUDE DE-RATING I NDEPENDENT OF AU L REQUIREMENTS AN ING, AND ACCESSOR RAPPED, AND ROUTE L COOL AIR TO 55°F ATE OVERFLOW PRC L BE PROVIDED WITH M SHALL CONTROL T INGS FOR THE CALC THIS FAULT CURRENT ARD RATING OR THE L SPRING VIBRATION IN ADDITION, PROVIDE ANICAL AND INSTALL CONMENT, PROVIDE A	G FOR ASSOCIATED TORS. UXILIARY PRE-HEAT AND DETAILS. RY LOSSES. ED PER PLANS AND PF OR LOWER BEFO COTECTION VIA A S. THA HINGED AND G THE UNIT FOR DEI ITSIDE AIR SHUTOF CULATED AVAILABL NT VALUE SHALL BE E CALCULATED FALL NTYPE HANGERS. VIDE MANUFACTUR - ▲ LLED BY ELECTRIC. A FACTORY APPLIE	CORE REHEATING THE SAF-T-SWITCH INSTAL GASKETED CEILING A EHUMIDIFICATION OR OFF DAMPER WITH BL. BLE FAULT CURRENT A BE UTILIZED TO DETEN AULT CURRENT. RER RECOMMENDED CAL	M DESIGN. COILS WHEN THE E E AIR TO 70°F. LED IN THE SECON CCESS PANEL FOF HEATING MODE. ADE AND JAMB SEA AT THE PANELBOAI RMINE THE CORRE ACCESSORIES FOI	ENTERING CONDITION NDARY CONDENSAT R MAINTENANCE AN ALS EITHER INTEGR RD SERVING MULTI CT SHORT CIRCUIT	E DRAIN CONNEC D REMOVAL OF UN AL TO THE UNIT O MOTOR AND COM CURRENT RATING	TION OR PRIMAR NIT. R IN THE DUCTW BINATION-LOAD B G (SCCR) FOR THE	(Drain Pan. Drk. Quipment or the			٨R									
A. ALL HEATERS B. OUTPUT CAPA C. ALL HEATERS	S SHALL BE ACITY SCH S SHALL HA	E UL OR ETL TESTI HEDULED IS AT INS AVE THERMAL OVE	STALLED VOLTA ERLOAD PROTE	CTION.																				HV	AC KITCHEN	MAKEUP AI	R SCHEDULE										
,	FER TO AF	RCHITECTURAL DF	RAWINGS FOR C			BE 45°F. OUNTING FRAME (COMPATIBLE WIT	H CEILING.												FAN					COOLING COIL							HEATING CO	DIL				
	\sim	\sim	\sim												TAG HOOD S		MODEL NO.					CAPAC	CITY (MBH)			TEMPERATUR	E (DEG. F.)		NA	ATURAL GAS (M	BH)					WEIGHT (LB)	ACCESSORIES
ACCESSORIES: 1. INTEGRAL TAN	MPERPRO	OF THERMOSTAT	· ?														WODEL NO.	<i>.</i> 5	SUPPLY AIR (CFM)	ESP (INWG) (IN. W.C.)	Iotor (HP)	TOTAL	SENSIBL		AT (DB)	EAT (WB)	LAT (DB)	LAT (WB	INPL	Ο ΤΙ	UTPUT	EAT (DEG. F	.) LAT (D	EG. F.)	EFFICIENCY (%		
2. INTEGRAL DIS	SCONNECT	T SWITCH)													7			. ,	. ,			(MBH)					· ·	·			21-	70		- 020 -		1,2,3,4,5,6,7,8,9,10,12
3. UNIVERSAL WA															MAU 2 88A /		DGX-P109-H12-		1700	0.75	1.5	104.9	58.2		93.8	77.2	62.7	60 7	98		90.5	21.0	70	.0 .0	92.0	1010	1,2,3,4,5,6,7,8,9,10,12
5. TYPICAL OF 5	5		3											}	MAU 3 88B /		DGX-P116-H12-		2950	0.75	3.0	176.8	98.7		93.8	77.2	63.4	61.3	170	.7	157.1	21.0	70	0.0	92.0	1200	1,2,3,4,5,6,7,8,9,11,12
6. TYPICAL OF 7 7 TYPICAL OF 16			۲													1		I						1	- yu	uuu	m	- m	سب	m	سب		سس	<u>u</u>	m		
		m	مريديه											$\int \frac{ACC}{1}$	<u>ESSORIES</u> : PROVIDE WITH FACTOR	Y DISCONNECT SWI	VITCHES			9. DDC CONTR	OLS WITH USER IN	ITERFACE, ENTERIN	G AND I FAVING TE	EMPERTURE SEN	SORS X												
SELECTIONS BASE														2.	MERV 8 FILTERS					10. HORIZONTA	SUPPLY AIR DISC	HARGE			τ												
EQUAL PRODUCTS	S BY MAR	KEL, BERKO, QMA	NKK, INDEECO, N	AKLEY, REDDI, S	STELPRO.										MODULATING NATURAL CONTROL INTERLOCK T		וד וב אטטע בופב פו				JPPLY AIR DISCHA	RGE SULATED ROOF CUR	B		<												
															2 CIRCUIT - DUAL CONDI				IN AUTIVATED	13. LEFT HAND			U U		₹												
														6.	STAINLESS STEEL DRAII	N PAN									~												
															VFD SUPPLY FAN, VFD V MOTORIZED OUTSIDE A			AL CONTROL VESTIBI	BULE						2												

					HVAC V	RF DOAS UNITS	;						
HVAC AIR CURTAIN							COOLING			HEATING		FILTERS	
	INDOOR UNIT TAG OUTDOOR U	INIT MANUFACTURER MODEL NO. (INDOOR/OUTDO	R) AREA SERVED SUPPLY FA	SSP (IN WG) FAN POWER (HP)	MIN TOTAL CAP (MBH)	MIN SENS CAP (MBH)	MIN HGR CAP EAT (MBH) (°	TDB EAT WB (°F) LA	F DB MIN TOT PF) (MF				EIGHT ACCESSORIES BS)
TAG MANUFACTURER MODEL LENGTH (IN) AIRFLOW (CFM) MOTOR HEATING (dBA) WEIGHT (LBS) ACCESSORIES	DOAS IDU-1 DOAS ODU	J-1 LG ARND203/ARUM144	MEZZANINE 3 1900	1.5 1.0	131.3	79.2		3.9 73.9 5	1.2 125	25.5 17.1	75.2		364 1,2,3,4,5,6
QIY. HP	DOAS IDU-2 DOAS ODU	I-2 LG ARND203/ARUM144	MEZZANINE 2	1.5 1.0	131.3	79.2	30.0 93	3.9 73.9 5	1.2 125	25.5 17.1	75.2	:	364 1,2,3,4,5,6
EAC 1 MARS STD296-2U 96 2884 2 0.5 N/A 68 135 1,2,3 EAC 2 MARS STD296-2U 96 2884 2 0.5 N/A 68 135 1,2,3							ᡝᢇᢟᡰᢇᢇᡲ	ᡐᢇ᠇ᢪᡐᢇ᠇ᠮ	**~~~*				64 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ACCESSORIES: 1. DOOR LIMIT SWITCH 2. MOTOR CONTROL PANEL 3. ADJUSTABLE MOUNTING BRACKET SELECTIONS BASED ON PRODUCTS BY MARS AIR SYSTEMS HVAC ELECTRIC HEATERS	 B. MINIMUM CAPACITIES SCHED C. UNITS SHALL HAVE DC ECM F D. UNITS SHALL BE CAPABLE OF E. REFER TO SPECIFICATIONSF F. ESP DOES NOT INCLUDE COI G. PRIMARY CONDENSATE SHALL H. IN DEHUMIDIFICATION MODE I. UNITS SHALL BE EQUIPPED V J. HORIZONTAL AND CONCEALE K. ENTHALPY SENSOR IN THE IN L. UNITS SHALL BE EQUIPPED V M. PROVIDE MANUFACTURER S' N. COORDINATE WITH THE ELEC CURRENT INDICATED AT THE A RATING OF NO LESS THAN O. SUSPENDED WITH MINIMUM 	IN DESIGN [DB & MCWB] [DP & MCDB] [WB & MCDB] LISTED AND A PROULED ABOVE INCLUDE DE-RATING FOR ASSOCIATED PIPING AND SYSTAN MOTORS OR VFD DRIVEN MOTORS. OPERATING INDEPENDENT OF AUXILIARY PRE-HEAT OR PRE-COOLI OR ADDITIONAL REQUIREMENTS AND DETAILS. , FILTER, CASING, AND ACCESSORY LOSSES. L BE SIZED, TRAPPED, AND ROUTED PER PLANS AND DETAILS. THE UNIT SHALL COOL AIR TO 55°F OR LOWER BEFORE REHEATING /ITH CONDENSATE OVERFLOW PROTECTION VIA A SAF-T-SWITCH INS DUNITS SHALL BE PROVIDED WITH A HINGED AND GASKETED CEILIN LET AIRSTREAM SHALL CONTROL THE UNIT FOR DEHUMIDIFICATION /ITH A CLASS 1, LOW-LEAKAGE OUTSIDE AIR SHUTOFF DAMPER WITH TARTUP AND REPORT. TRICAL DRAWINGS FOR THE CALCULATED AVAILABLE FAULT CURRE EQUIPMENT. THIS FAULT CURRENT VALUE SHALL BE UTILIZED TO DE THE PANELBOARD RATING OR THE CALCULATED FAULT CURRENT. " DEFLECTION SPRING VIBRATION TYPE HANGERS. ALL INCLUSIVE IN ADDITION, PROVIDE MANUFACTURER RECOMMENT O IN SUPPLY SUPPLY AIRSTREAM	EM DESIGN. G COILS WHEN THE ENTERING CONDITIONS HE AIR TO 70°F. ALLED IN THE SECONDARY CONDENSATE I ACCESS PANEL FOR MAINTENANCE AND I OR HEATING MODE. BLADE AND JAMB SEALS EITHER INTEGRAL T AT THE PANELBOARD SERVING MULTI-MO 'ERMINE THE CORRECT SHORT CIRCUIT CU	RAIN CONNECTION OR PRIMARY DF EMOVAL OF UNIT. TO THE UNIT OR IN THE DUCTWORK TOR AND COMBINATION-LOAD EQU RRENT RATING (SCCR) FOR THE EQ	RAIN PAN. IPMENT OR THE CALCUL/								
TAGMANUFACTURERMODEL NOTYPECAPACITY (kw)MOUNTING HEIGHT (AFE)WEIGHT (LBS)ACCESSORIESERH AINFRATECHC-15RADIANT1.5-152,3,5ERH BINFRATECHC-25RADIANT2.5-152,3,6ERH CINFRATECHC-40RADIANT4.0-202,3,7EUH 1-1RAYWALL5100UNIT3.09251,2,3,4	 CONDENSATE PUMP FOR PROTECTION FROM SEA AIRFLOW MONITORING STAT SELECTIONS BASED ON MANUFAC 		MER E-COATING ON THE EVAPORATOR AN	D HOT GAS REHEAT COILS									
 <u>NOTES (APPLY TO ALL HEATERS)</u>: A. ALL HEATERS SHALL BE UL OR ETL TESTED AND LISTED. B. OUTPUT CAPACITY SCHEDULED IS AT INSTALLED VOLTAGE. COORDINATE WITH ELECTRICAL DWGS. C. ALL HEATERS SHALL HAVE THERMAL OVERLOAD PROTECTION. D. STAIRWELL AND SPRINKLER RISER ROOM HEATERS - THERMOSTAT SETPOINT SHALL BE 45°F. E. FOR ECH, REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND PROVIDE MOUNTING FRAME COMPATIBLE WITH CEILING. 		FAN			C KITCHEN MAKE	UP AIR SCHEDU	JLE			ATING COIL			
			CAPACIT			ERATURE (DEG. F.)		NATURAL GAS (ME					
ACCESSORIES: 1. INTEGRAL TAMPERPROOF THERMOSTAT	TAG HOOD SERVED	MODEL NO. SUPPLY AIR ESP (INWG) (CFM) (IN. W.C.)	MOTOR (HP)				LAT (WB)			T (DEG. F.) LAT (DI	EG. F.) EFFICIE		HT (LB) ACCESSORIES
2. INTEGRAL DISCONNECT SWITCH			TOTAL	(MBH) EAT									
3. UNIVERSAL WALL/CEILING MOUNTING BRACKET 4. FAN GUARD AND LOUVER DIFFUSER		DGX-P109-H12-MF 1700 0.75											1,2,3,4,5,6,7,8,9,10,12 110 1,2,3,4,5,6,7,8,9,11,12,13
5. TYPICAL OF 5		DGX-P109-H12-MF 1700 0.75	1.5 104.9 3.0 176.8	98.7 93	.0 11.2	63.4	61.3	170.7 1	57.1	21.0 70.	.0 92 .0 92		200 1,2,3,4,5,6,7,6,9,11,12,13
6. TYPICAL OF 7			0.0 170.0			سلسس	ستتسل	لسلستتس	and the	شىرىت.	ئىسلىت	ئىلىت	
7. TYPICAL OF 16 SELECTIONS BASED ON PRODUCTS AS SCHEDULED EQUAL PRODUCTS BY MARKEL, BERKO, QMARK, INDEECO, MARLEY, REDDI, STELPRO.	ACCESSORIES: 1. PROVIDE WITH FACTORY DISCONNECT SWITC 2. MERV 8 FILTERS 3. MODULATING NATURAL GAS HEAT 4. CONTROL INTERLOCK TO SHUT DOWN UNIT IF 5. 2 CIRCUIT - DUAL CONDENSER MODULAR COC 6. STAINLESS STEEL DRAIN PAN 7. VFD SUPPLY FAN, VFD WIRED AND MOUNTED 8. MOTORIZED OUTSIDE AIR INTAKE DAMPER	10. HORIZON11. VERTICA11. VERTICA12. PRE-FAB12. PRE-FAB13. LEFT HAR	ROLS WITH USER INTERFACE, ENTERING / AL SUPPLY AIR DISCHARGE SUPPLY AIR DISCHARGE ICATED 24" HIGH INSULATED ROOF CURB D ACCESS	ND LEAVING TEMPERTURE SENSOR	NS								

^	E.	FOR ECH, REFER TO ARCHITECTURAL DRAWINGS FOR CEIL
	\sim	\cdot
-¢	AC	<u>CESSORIES</u> :
K	• 1.	INTEGRAL TAMPERPROOF THERMOSTAT
- Y	2.	INTEGRAL DISCONNECT SWITCH
	3.	UNIVERSAL WALL/CEILING MOUNTING BRACKET
Ľ	4.	FAN GUARD AND LOUVER DIFFUSER
- (5.	TYPICAL OF 5
X	6.	TYPICAL OF 7
- Y	7.	TYPICAL OF 16
	05	

					F	IVAC FANS					~	\sim
TAG	MANUFACTURER	MODEL	TYPE	DUTY	CFM	ESP (IN WG)	MOTOR SIZE (HP)	RPM	DRIVE	SONES	WEIGHT (LBS)	ACCESSORIES
EF 1-1	GREENHECK	G-090-VG	RCD	RESTROOM EXHAUST	650	0.5	1/10	1725	D	8.8	62	1,2,5,6,7,8
EF 1-2	GREENHECK	SQ-80-VG	ILC	RESTROOM EXHAUST	225	0.375	1/10	1448	D	6.5	64	1,2,4,5,6,8
EF 1-3	GREENHECK	SQ-95-VG	ILC	WOMENS LOCKER EXHAUST	620	0.375	1/6	1585	D	8.4	65	1,2,4,5,6,8
EF 1-4	GREENHECK	SQ-95-VG	ILC	MENS LOCKER EXHAUST	695	0.375	1/6	1673	D	9.4	65	1,2,4,5,6,8
EF B-1	GREENHECK	SQ-95-VG	ILC	RESTROOM EXHAUST	500	0.5	1/6	1606	D	8.5	65	1,2,4,5,6,8
		- SQ109VG		BATTERY CHARGING						\sim		1,2,4,5,6,8,12
EF B-3	GREENHECK	CSP-A1300	ILC	WINE COOLER EXHAUST	900	0.5	536W	1161	D	3.0	58	1,2,4,5,6,8
\$XX	\sim						\sim	XXXXX	\sim			2,3,5,6,9,11
KEF 2	GREENHECK	CUE-160-VG	RCU	HOOD EXHAUST	3680	1.5	2	1692	D	25.0	169	2,3,5,6,7,9
KENJU			Reout	MAR AND A REAL AND A R	n 375 1	man			man	min	my ny	2,3,5,6,7,10
	GREENHECK		- RCH	HOODEXHAUSI								2,3,5,6,7,9
KEF 5	ĞREENHECK	CUE-140-VG	RCU	HOOD EXHAUST	2120	1.375		1710	D	14.0	79	2,3,5,6,9,11
REFER TO AII FANS SHALL I MOTORS COM USED. REFER FANS WITH S CESSORIES (TH BACKDRAFT I DISCONNECT	TO THE SPECIFICATIONS FOF ELELCTABLE CFM SHALL BE SI <u>HS LIST IS NOT ALL INCLUSIVE</u> DAMPER SWITCH	COR OA CFM AND BALA HVI-2100 OR AMCA LAB QUENCY DRIVE (VFD) S ADDITIONAL REQUIRE ET TO THE APPROPRIA	EL FOR AIR AND SO SHALL BE INVERTEF EMENTS. TE SETTING DURING E MANUFACTURER	UND PERFORMANCE. R DUTY MOTORS AND SHALL BE COMPATIBL G INSTALLATION PER MANUFACTURER'S IN <u>RECOMMEND ACCESSORIES FOR SAFE AN</u> 7. MINIMUM 24" ROOF CURL 8. BAS CONTROLLED ON TI	ISTALLATION INSTR I <u>D PROPER OPERA</u> T B, MINIMUM 14" ABO IME SCHEDULE	UCTIONS. TION):	ER'S DRIVE THAT IS					
HANGING ISC SOLID STATE	SPEED CONTROLLER MOUNT ERLOCK TO BUILDING AUTOM	ED AT FAN FOR INITAL ATION SYSTEM (BAS)		9. CONTROL INTERLOCK TO 10. CONTROL INTERLOCK TO 11. SIDEWALL RANGE EXHAU 12. WALL SWITCH	O PIZZA OVEN							
	CTIONS BASED ON PRODUCTS											

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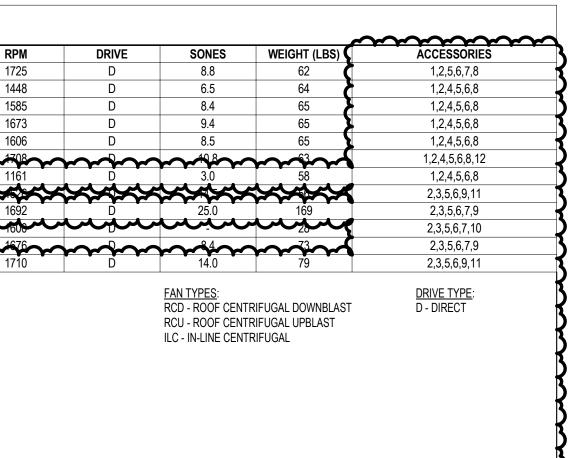
					FAN DATA						COOLING COIL	1				HEATING		FILTER		
TAG	MODEL SIZE	AREA SERVED	TOTAL CFM	FAN HP	ESP	OA CFM	TYPE	MBH TOT COOL	MBH SENS COOL	GPM	WPD (FT)	EWT/LWT (°F)	EAT DB/WB (°F)	LAT DB/WB (°F)	KW	EAT (°F)	MIN NO. STAGE	TYPE	WEIGHT (LB)	ACCESSORIES
AHU 1-1	BCVE072	PRO SHOP	2330	3.0	0.75	540	DIRECT	73.33	54.97	13.23	5.43	44.00/56.00	76.30/63.90	54.77/53.18	20.0	61.70	SCR	2" MERV 8	384.2	1,2,3,4,5,6,7,8,9,10,11,12,
AHU 1-2	BCVE072	MENS LOUNGE	1750	1.0	0.75	120	DIRECT	29.42	28.52	5.33	0.77	44.00/56.00	74.00/62.70	58.39/57.08	15.0	66.90	SCR	2" MERV 8	323.0	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-3	BCVE024	CONFERENCE	680	0.5	0.75	100	DIRECT	16.78	14.17	3.03	1.78	44.00/56.00	73.60/61.90	54.60/53.33	5.0	66.40	SCR	2" MERV 8	185.5	1,2,3,4,5,6,7,8,9,10,11,12,
AHU 1-4	BCVE060	BREAK ROOM	1660	1.0	0.75	170	DIRECT	49.04	35.55	8.54	3.74	44.00/56.00	72.80/62.70	53.31/52.47	15.0	65.50	SCR	2" MERV 8	303.5	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-5	BCVE072	OPEN OFFICE SUITE	1850	1.5	0.75	160	DIRECT	50.26	37.51	8.95	2.71	44.00/56.00	72.50/62.30	53.95/52.83	15.0	66.50	SCR	2" MERV 8	368.6	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-6	BCVE024	OFFICE	500	0.5	0.75	90	DIRECT	17.47	10.77	3.03	1.77	44.00/56.00	74.10/65.10	54.55/53.46	5.0	60.10	SCR	2" MERV 8	185.5	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-7	BCVE036	CORRIDOR 03	1270	1.0	0.75	150	DIRECT	34.37	28.47	6.11	3.13	44.00/56.00	75.30/62.90	54.79/53.59	10.0	65.20	SCR	2" MERV 8	219.4	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-8	BCVE048	WOMENS LOUNGE	1640	1.0	0.75	120	DIRECT	45.03	34.45	7.91	4.41	44.00/56.00	72.90/62.30	53.69/52.73	15.0	66.70	SCR	2" MERV 8	271.8	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-9	BCVE048	GAME ROOM	1380	1.0	0.75	370	DIRECT	54.60	31.21	9.39	5.98	44.00/56.00	74.10/65.90	53.55/52.71	15.0	58.00	SCR	2" MERV 8	271.8	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-10	BCVE120	CO-WORK	3800	3.0	0.75	440	DIRECT	110.58	86.38	19.69	5.01	44.00/56.00	75.00/63.00	54.24/52.97	30.0	65.00	SCR	2" MERV 8	459.2	1,2,3,4,5,6,7,8,9,10,11,12,
AHU 1-11	BCVE090	TRACKMAN	3240	3.0	0.75	430	DIRECT	91.78	70.15	16.44	3.15	44.00/56.00	75.60/64.00	55.88/54.50	30.0	64.00	SCR	2" MERV 8	409.2	1,2,3,4,5,6,7,8,9,10,11,12,
AHU 1-12	BCVE024	GM OFFICE	500	0.5	0.75	40	DIRECT	8.68	8.42	1.56	0.38	44.00/56.00	73.30/61.70	56.92/55.78	5.0	67.00	SCR	2" MERV 8	178.2	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-13	BCVE048	PRIVATE TRACKMAN 1	1100	0.5	0.75	130	DIRECT	35.95	27.29	6.21	2.88	44.00/56.00	75.00/63.00	52.34/51.58	10.0	64.80	SCR	2" MERV 8	268.1	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-14	FCDB040	ELEC	400	152 W	0.375	<u> </u>	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8	125.0	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-15	FCDB080	MDF	800	277 W	0.375		DIRECT	24.00	18.56	3.53	6.50	45.00/58.55	80.00/67.00	58.72/57.46	-	-	-	2" MERV 8	164.0	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-16	BCVE036	PRIVATE DINING	1400	1.0	0.75	400	DIRECT	34.85	29.23	6.29	3.30	44.00/56.00	74.40/62.50	55.32/53.94	10.0	66.20	SCR	2" MERV 8	219.4	1,2,3,4,5,6,7,8,9,10,11,12,
AHU 1-17	BCVE120	LOUNGE	4320	5.0	0.75	1500	DIRECT	120.13	96.87	21.80	6.00	44.00/56.00	75.40/62.90	54.92/53.33	30.0	64.00	SCR	2" MERV 8	461.6	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-18	BCVE090	BAR	3570	3.0	0.75	1400	DIRECT	93.76	77.84	17.07	3.37	44.00/56.00	75.90/63.30	55.99/54.39	30.0	63.40	SCR	2" MERV 8	409.2	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-19	UCCAC12	BACK KITCHEN	5560	3.0	0.75	600	DIRECT	121.12	112.52	20.12	1.18	44.00/56.00	74.20/62.80	55.76/55.44	30.0	66.10	SCR	2" MERV 8	910.2	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-20	FCCB080	ELECTRICAL	800	277 W	0.375		DIRECT	24.00	18.56	3.53	6.50	45.00/58.55	80.00/67.00	58.72/57.46	-	-	-	2" MERV 8	147.0	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-21	FCDB040	DRY STORAGE	400	152 W	0.375	-	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8	125.0	1,2,3,4,5,6,7,8,9,10,11,12
AHU 1-22	FCCB040	TRASH	400	152 W	0.375	-	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8	109.0	1,2,3,4,5,6,7,8,9,10,11,12
				$\gamma \gamma $								A+00/5600	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-544845329			\sim			1,2,3,4,5,6,7,8,9,10,11,12,13
AHU B1-2	BCVE090	CART BARN	3410	3.0	0.75	320	DIRECT	122.42	76.20	21.86	6.64	44.00/56.00	74.20/64.60	53.86/52.38	20.0	60.00	SCR	2" MERV 8	437.8	1,2,3,4,5,6,7,8,9,10,11,12,13
AHU BI-3	BEVED24	OFFICE		0.5	0.75		DIRECT	12.94	8.2	2.27	0.74	44.00/56.00	75.20/67.20	60.33/59.26		54.10	John Schwart	2 MERV 8	178.2	1,2,3,4,5,6,7,8,9,10,11,12,1
AHU B1-4	BCVE072	WINE CELLAR	1850	1.5	0.75	460	DIRECT	50.26	37.51	8.95	2.71	44.00/56.00	72.50/62.30	53.95/52.83	15.0	66.50	SCR	2" MERV 8	368.6	1,2,3,4,5,6,7,8,9,10,11,12,1
AHU B1-5	FCCB040	MECH/ELEC	400	152 W	0.375	-	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8	109.0	1,2,3,4,5,6,7,8,9,10,11,12,1
 A. COOLING CAPACI B. MINIMUM CAPACI C. UNITS SHALL HAV D. UNITS SHALL BE (E. REFER TO SPECIFICATION (TIES SCHEDULED ABOVE INCLUD /E DC ECM FAN MOTORS OR VFD	NDENT OF AUXILIARY PRE-HEAT OR PRE UIREMENTS AND DETAILS.		THE ENTERING C	CONDITIONS ARE	ABOVE 23°F AND	BELOW 125°F D	RY BULB.												

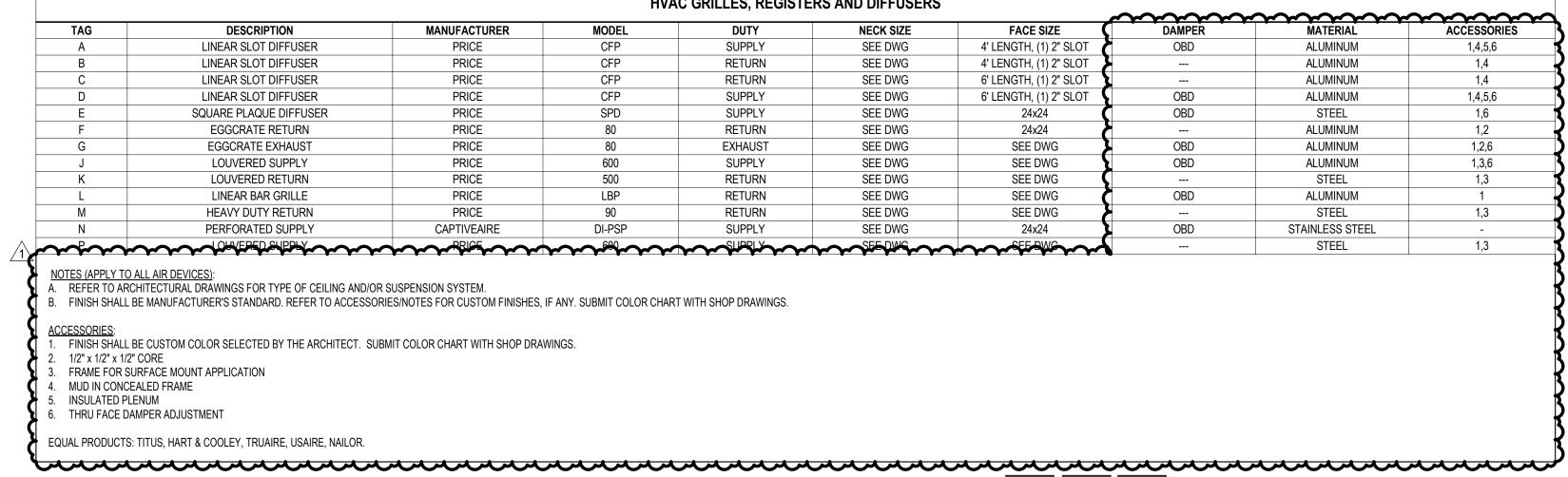
F. ESP DOES NOT INCLUDE COIL, FILTER, CASING, AND ACCESSORY LOSSES. G. PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED, AND ROUTED PER PLANS AND DETAILS.

- H. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE CALCULATED AVAILABLE FAULT CURRENT AT THE PANELBOARD SERVING MULTI-MOTOR AND COMBINATION-LOAD EQUIPMENT OR THE CALCULATED AVAILABLE FAULT CURRENT INDICATED AT THE EQUIPMENT. THIS FAULT CURRENT VALUE SHALL BE UTILIZED TO DETERMINE THE CORRECT SHORT CIRCUIT CURRENT RATING (SCCR) FOR THE EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING OR THE CALCULATED FAULT CURRENT ACCESSORIES (THIS LIST IS NOT ALL UNSURVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMENDED ACCESSORIES FOR SAFE AND PROPER OPERATION):
 1. SMOKE DETECTOR MOUNTED IN SUPPLY AIRSTREAM
 2. FILTER BOX WITH 2" MERV 8 FILTERS
- 3. DISCONNECT SWITCH FURNISHED BY MECHANICAL AND INSTALLED BY ELECTRICAL 4. MINIMUM 4-ROW CHILLED WATER COIL
- 5 PIPING PACKAGE WITH 2 WAX PRESSURE INDEPENDENT CONTROL VALVE 6. 1" MATTE FACE INSULATION 7. FIELD INSTALLED SUPPLY AIR TEMPERATURE SENSOR 8. DIGITAL DISPLAY THERMOSTAT 9. BACNET IP CONTROLLER INTERLOCK WITH BAS 10. CONDENSATE OVERFLOW SENSOR 11. AUXILIARY DRAIN PAN
- 12. NEOPRENE ISOLATORS 13. CONDENSATE PUMP LOCATED IN AUXILIARY DRAIN PAN 14. ECM MOTORS WITH SPEED CONTROL SELECTIONS BASED ON TRANE. EQUAL PRODUCTS: JCI, CARRIER, OR APPROVED EQUAL

8. MOTORIZED OUTSIDE AIR INTAKE DAMPER

SELECTION BASED ON PRODUCTS BY GREENHECK EQUAL PRODUCTS BY





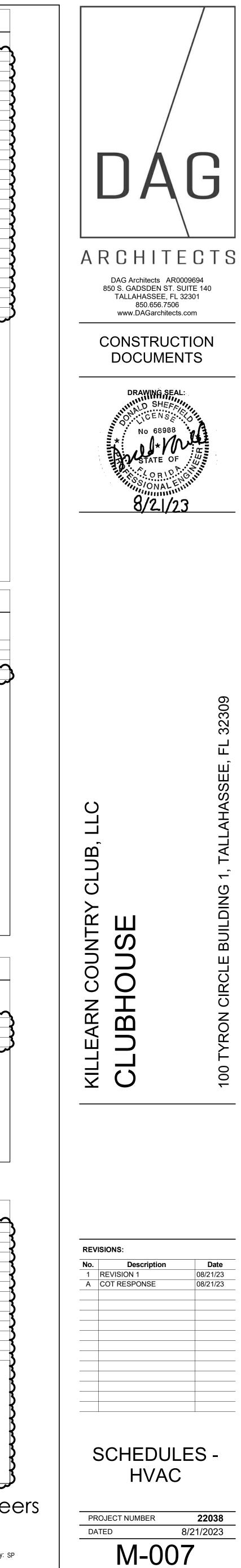
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		C GRILLES, REGISTE			$\sim\sim\sim\sim\sim$	$\sim\sim\sim\sim\sim\sim$	$\sim\sim\sim\sim\sim$
MANUFACTURER	MODEL	DUTY	NECK SIZE	FACE SIZE	DAMPER	MATERIAL	ACCESSORIES
PRICE	CFP	SUPPLY	SEE DWG	4' LENGTH, (1) 2" SLOT	OBD	ALUMINUM	1,4,5,6
PRICE	CFP	RETURN	SEE DWG	4' LENGTH, (1) 2" SLOT		ALUMINUM	1,4
PRICE	CFP	RETURN	SEE DWG	6' LENGTH, (1) 2" SLOT		ALUMINUM	1,4
PRICE	CFP	SUPPLY	SEE DWG	6' LENGTH, (1) 2" SLOT	OBD	ALUMINUM	1,4,5,6
PRICE	SPD	SUPPLY	SEE DWG	24x24	OBD	STEEL	1,6
PRICE	80	RETURN	SEE DWG	24x24		ALUMINUM	1,2
PRICE	80	EXHAUST	SEE DWG	SEE DWG	OBD	ALUMINUM	1,2,6
PRICE	600	SUPPLY	SEE DWG	SEE DWG	OBD	ALUMINUM	1,3,6
PRICE	500	RETURN	SEE DWG	SEE DWG		STEEL	1,3
PRICE	LBP	RETURN	SEE DWG	SEE DWG	OBD	ALUMINUM	1
PRICE	90	RETURN	SEE DWG	SEE DWG		STEEL	1,3
CAPTIVEAIRE	DI-PSP	SUPPLY	SEE DWG	24x24	OBD	STAINLESS STEEL	-
		SUPRLY	SEE DWG	SEEBWG		STEEL	1,3

5



Drawn By: STH Checked By: SP



۲ ۰ /۲ М	echanical Compliance Certificate
V	containear compliance certificate
Project Informa	tion 2020 Florida Building Code, Energy Conservation
Project Title: Location:	22010703 Killearn Clubhouse Tallahassee, Florida
Climate Zone: Project Type:	2a New Construction
Construction Site: 100 Tyron Circle Tallahassee, Florida 3	Owner/Agent: Designer/Contractor: Killearn Country Club ,LLC.
Additional Effici Credits: 1.0 Required	iency Package(s)
Reduced Lighting Po Mechanical Syst	tems List
1 AHU 1-1 (S	Type & Description ;ingle Zone): each - Central Furnace, Electric, Capacity = 68 kBtu/h
Cooling: 1 e No minin	mum efficiency requirement applies each - Hydronic Coil, Capacity = 73 kBtu/h, Water Economizer mum efficiency requirement applies
Fans:	n: AHU 1-1 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 2325 CFM, 3.0 motor nameplate hp, 1.00 fan energy index
1 AHU 1-2 (S Heating: 1	ingle Zone): each - Central Furnace, Electric, Capacity = 51 kBtu/h
No minin Cooling: 1 e No minin	mum efficiency requirement applies each - Hydronic Coil, Capacity = 29 kBtu/h, Water Economizer mum efficiency requirement applies
Fans:	n: AHU 1-2 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1742 CFM, 1.0 motor nameplate hp, 1.00 fan energy index
1 AHU 1-3 (S Heating: 1	ingle Zone): each - Central Furnace, Electric, Capacity = 17 kBtu/h
No minin Cooling: 1 e No minin	mum efficiency requirement applies each - Hydronic Coil, Capacity = 16 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-3 Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans: FAN 6 Su	upply, Constant Volume, 680 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single
fan < 1 HP 1 AHU 1-4 (S	r < 0.89 kW Single Zone):
No minin Cooling: 1 e	each - Central Furnace, Electric, Capacity = 51 kBtu/h mum efficiency requirement applies each - Hydronic Coil, Capacity = 49 kBtu/h, Water Economizer mum efficiency requirement applies
Fan System Fans:	n: AHU 1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes
	upply, Constant Volume, 1660 CFM, 1.0 motor nameplate hp, 1.00 fan energy index
Project Title: 22010 Data filename:	0703 Killearn Clubhouse Report date: 06/29/2 Page 1 of 2
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su	Type & Description mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone):
No minin Cooling: 1 e No minin Fan System FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans:	 ach efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP	 Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1	 ach efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1	 Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate hp, 0.00 fan energy index , fan exception: Single Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1	 winn efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 13 kBtu/h
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 1 EUH 1-1 (U Heating: 1 No minin	<pre>mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single 'or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies</pre>
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 1 EUH 1-1 (U Heating: 1 No minin Fan System Fans:	<pre>mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency index , fan exception: Single 'or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies lnknown w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies lnknown w/ PerimeterSystem): each - Unit Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies lnknown w/ PerimeterSystem): each - Unit Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies </pre>
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 17 No minin 18 EUH 1-1 (U Heating: 1 No minin 10 Fan System Fans: FAN 24 S fan < 1 HP	<pre>mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes ueach - Radiant Heater, Flectric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies lnknown w/ PerimeterSystem): each - Lactric, Capacity = 10 kBtu/h mum efficiency requirement applies n: EUH 1-1 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single or < 0.89 kW L1 (Unknown): </pre>
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 17 EUH 1-1 (U Heating: 1 No minin 18 EUH 1-1 (U Heating: 1 No minin Fan System Fans: FAN 24 S fan < 1 HP 1 DOAS ODU VRF Conde Heating Mo	 mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single 'or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies Inknown w/ PerimeterSystem): each - Haint Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies Inknown w/ PerimeterSystem): each - Nadiant Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies Inknown w/ PerimeterSystem): each - Nadiant Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies instrument Autor and Fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single 'or < 0.89 kW I-1 (Unknown): Insing Unit, Air Cooled Heat Pump Jote: Capacity = 152 kBtu/h, mum efficiency requirement applies
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 17 EUH 1-1 (U Heating: 1 No minin 18 EUH 1-1 (U Heating: 1 No minin 10 EUH 1-1 (U Heating: 1 No minin Fan System Fans: FAN 24 S fan < 1 HP 1 DOAS ODU VRF Conde Heating Mo No minin Cooling Mo No minin Fan System	 mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies Inknown w/ PerimeterSystem): each - Unit Heater, Flectric, Capacity = 10 kBtu/h mum efficiency requirement applies n: EUH 1-1 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single or < 0.89 kW I-1 (Unknown): mensing Unit, Air Cooled Heat Pump bde: Capacity = 10 kBtu/h, mum efficiency requirement applies n: EUH 1-1 Compliance (Motor nameplate HP and fan efficiency method) : Passes
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 17 No minin 18 EUH 1-1 (U Heating: 1 No minin 10 EUH 1-1 (U Heating: 1 No minin 10 EXH C (Sing Heating: 1 No minin 11 EUH 1-1 (U Heating: 1 No minin 12 FAN 24 S fan < 1 HP 11 DOAS ODU VRF Conde Heating Mo No minin Fan System 11 DOAS ODU VRF Conde Heating Mo	 mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single 'or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 1 kBtu/h mum efficiency requirement applies Inknown W/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies Inknown W/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies n: EUH 1-1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single 'or < 0.89 kW L1 (Unknown): insing Unit, Air Cooled Heat Pump de: Capacity = 162 kBtu/h, mum efficiency requirement applies he: Capacity = 162 kBtu/h, mum efficiency requirement applies he: Capacity = 162
No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su 1 AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP 5 ERH A (Sing Heating: 1 No minin 6 ERH B (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 16 ERH C (Sing Heating: 1 No minin 17 No minin 18 EUH 1-1 (U Heating: 1 No minin 10 EUH 1-1 (U Heating: 1 No minin Fan System Fans: FAN 24 S fan < 1 HP 1 DOAS ODU VRF Conde Heating Mo No minin Fan System 1 DOAS ODU VRF Conde Heating Mo No minin Fan System	 mum efficiency requirement applies each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies lnknown w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies lnknown w/ PerimeterSystem): each - Nadiant Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies n: EUH 1-1 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single for < 0.89 kW Li (Unknown): ming Unit, Air Cooled Heat Pump bde: Capacity = 162 kBtu/h, mum efficiency requirement applies h: None L2 (Unknown): ming Unit, Air Cooled Heat Pump bde: Capacity = 162 kBtu/h, mum efficiency requirement applies h: None L2 (Unknown): ming Unit, Air Cooled Heat Pump bde: Capacity = 162 kBtu/h, mum efficiency requirement applies h: None L2 (Unknown): ming Unit,
 No minin Cooling: 1 e No minin Fan System FAN 5 Su AHU B1-5 (Cooling: 1 e No minin Fan System FAN 15 S fan System Fans: FAN 15 S fan < 1 HP ERH A (Sing Heating: 1 No minin ERH B (Sing Heating: 1 No minin ERH C (Sing Heating: 1 No minin ENH 1-1 (U Heating: 1 No minin TOAS ODU VRF Conde Heating Mo No minin DOAS ODU VRF Conde Heating Mo No minin TOAS ODU VRF Conde Heating Mo No minin TOAS ODU VRF Conde Heating Mo No minin TOAS ODU VRF Conde Heating Mo No minin 	The additional sector of the sector of th
 No minin Cooling: 1 e No minin Fan System FAN 5 Su AHU B1-5 (Cooling: 1 e No minin Fan System FAN 5 Su AHU B1-5 (Cooling: 1 e No minin Fan System FAN 15 S fan < 1 HP ERH A (Sing Heating: 1 No minin ERH B (Sing Heating: 1 No minin ERH C (Sing Heating: 1 No minin EUH 1-1 (U Heating: 1 No minin TOAS ODU VRF Conde Heating Mo No minin Fan System DOAS ODU VRF Conde Heating Mo No minin DOAS ODU VRF Conde Heating Mo No minin TOAS ODU VRF Conde Heating Mo No minin TOAS ODU VRF Conde Heating Mo No minin Fan System 	 mum efficiency requirement applies each - Hydronic Coli, Capacity = 50 kBtu/h, Water Economizer mum efficiency requirement applies for < 0.89 kW gle Zone w/ PerimeterSystem): each - Badiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Badiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Badiant Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies mic HUH 1-1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply. Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single 'or < 0.89 kW 1-1 (Unknown): me Eld 1-1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply. Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single 'or < 0.89 kW 1-2 (Unknown): mum efficiency requirement applies m
 No minin Cooling: 1 e No minin Fan System Fans: FAN 5 Su AHU B1-5 (Cooling: 1 e No minin Fan System Fans: FAN 15 S fan < 1 HP ERH A (Sing Heating: 1 No minin ERH B (Sing Heating: 1 No minin ERH C (Sing Heating: 1 No minin TOUAS ODU VRF Conde Heating Mo No minin Fan System DOAS IDU-: Cooling Mo No minin Fan System 	num efficiency requirement applies each - Hydronic Coll, Capacity = 50 KBtu/h, Water Economizer mum efficiency requirement applies nr: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate HP, 1.00 fan energy index (Single Zone): each - Hydronic Coll, Capacity = 12 kBtu/h, Water Economizer mum efficiency requirement applies nr: AHU 1-14.21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate HP, 0.00 fan energy index , fan exception: Single or < 0.89 kW gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 kBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - HydrineterSystem): each - HydrineterSystem): each - HydrineterSystem): each - Unit Heater, Electric, Capacity = 13 kBtu/h mum efficiency requirement applies hknown w/ PerimeterSystem): each - Unit Heater, Electric, Capacity = 10 kBtu/h mum efficiency requirement applies hknown with Air Cooled Heat Pump doi: Capacity = 102 kBtu/h, mum efficiency requirement applies hk: None k2 (Unknown): nsing Unit, Air Cooled Heat Pump doi: Capacity = 162 kBtu/h, mum efficiency requirement applies hkic Capacity = 162 kBtu/h, mum efficiency requirement applies hkic Capacity = 162 kBtu/h, mum efficiency requirement applies hkic Capacity = 162 kBtu/h, mum efficiency requirement applies hkic Capacity = 162 kBtu/h, mum efficiency requirement applies hkic Capacity = 162 kBtu/h, mum efficiency req
 No minin Cooling: 1 of No minin Fan System FAN 5 Su AHU B1-5 (Cooling: 1 of No minin Fan System FAN 5 Su AHU B1-5 (Cooling: 1 of No minin Fan System FAN 15 St fan < 1 HP ERH A (Sing Heating: 1 No minin ERH B (Sing Heating: 1 No minin ERH C (Sing Heating: 1 No minin EUH 1-1 (U Heating: 1 No minin TOAS ODU VRF Conde Heating Mo No minin Fan System DOAS IDU-1 Cooling Mo No minin Fan System 	 num efficiency requirement applies each - Hydnoric Coll, Capacity = 50 KBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-5,81-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes upply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index (Single Zone): each - Hydnoric Coll, Capacity = 12 KBtu/h, Water Economizer mum efficiency requirement applies n: AHU 1-14,21,22,81-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single or < 0.08 W gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 5 KBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 8 KBtu/h mum efficiency requirement applies gle Zone w/ PerimeterSystem): each - Radiant Heater, Electric, Capacity = 10 KBtu/h mum efficiency requirement applies n: Rome v/ PerimeterSystem): each - Hydnory requirement applies n: EUH 1-1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single or < 0.88 kW L1 (Unknown): nsing Unit, Air Cooled Heat Pump de: Capacity = 162 KBtu/h, mum efficiency requirement applies h: None L2 (Unknown): msing Unit, Air Cooled Heat Pump de: Capacity = 162 KBtu/h, mum efficiency requirement applies h: None L3 (Unknown): msing Unit, Air Cooled Heat Pump de: Capacity = 162 KBtu/h, mum efficiency requirement applies h: None L3 (Unknown): msing Unit, Air Cooled Heat Pump de: Capacity = 162 KBtu/h, mum

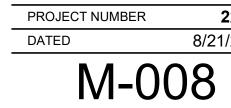
CUMENTS 8/21/2000

uantitySystem Type & Description	QuantitySystem Type & Description	QuantitySystem Type & Description
1 AHU 1-5 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 51 kBtu/h	1 AHU 1-12 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 17 kBtu/h	1 AHU 1-19 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h
No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 50 kBtu/h, Water Economizer	No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 8 kBtu/h, Water Economizer	No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 121 kBtu/h, Water Economizer
No minimum efficiency requirement applies Fan System: AHU 1-5,B1-4 Compliance (Motor nameplate HP and fan efficiency method) : Passes	No minimum efficiency requirement applies Fan System: AHU 1-12 Compliance (Motor nameplate HP and fan efficiency method) : Passes	No minimum efficiency requirement applies Fan System: AHU 1-19 Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans: FAN 5 Supply, Constant Volume, 1842 CFM, 1.5 motor nameplate hp, 1.00 fan energy index	Fans: FAN 13 Supply, Constant Volume, 500 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single	Fans: FAN 20 Supply, Constant Volume, 5553 CFM, 3.0 motor nameplate hp, 1.00 fan energy index
1 AHU 1-6 (Single Zone):	fan < 1 HP or < 0.89 kW	1 AHU 1-20 (Single Zone):
Heating: 1 each - Central Furnace, Electric, Capacity = 17 kBtu/h No minimum efficiency requirement applies	1 AHU 1-13 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 34 kBtu/h	Cooling: 1 each - Hydronic Coil, Capacity = 24 kBtu/h, Water Economizer No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 17 kBtu/h, Water Economizer No minimum efficiency requirement applies	No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 35 kBtu/h, Water Economizer No minimum efficiency requirement applies	Fan System: AHU 1-15,20 Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fan System: AHU 1-6 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fan System: AHU 1-13 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans: FAN 16 Supply, Constant Volume, 800 CFM, 0.4 motor nameplate hp, 0.00 fan energy index , fan exception fan < 1 HP or < 0.89 kW
FAN 7 Supply, Constant Volume, 500 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW	Fans: FAN 14 Supply, Constant Volume, 1097 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single	1 AHU 1-21 (Single Zone):
1 AHU 1-7 (Single Zone):	fan < 1 HP or < 0.89 kW	Cooling: 1 each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer No minimum efficiency requirement applies
Heating: 1 each - Central Furnace, Electric, Capacity = 34 kBtu/h No minimum efficiency requirement applies Capitant 1 each - Hydronia Cail, Canacity - 24 kBtu/h, Water Feaneminer	1 AHU 1-14 (Single Zone): Cooling: 1 each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer	Fan System: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes
Cooling: 1 each - Hydronic Coil, Capacity = 34 kBtu/h, Water Economizer No minimum efficiency requirement applies Fan System: AHU 1-7 Compliance (Motor nameplate HP and fan efficiency method) : Passes	No minimum efficiency requirement applies Fan System: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans: FAN 15 Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception fan < 1 HP or < 0.89 kW
Fans:	Fans: FAN 15 Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception: Single	1 AHU 1-22 (Single Zone):
FAN 8 Supply, Constant Volume, 1265 CFM, 1.0 motor nameplate hp, 1.00 fan energy index	fan < 1 HP or < 0.89 kW	Cooling: 1 each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer No minimum efficiency requirement applies
1 AHU 1-8 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 51 kBtu/h	1 AHU 1-15 (Single Zone): Cooling: 1 each - Hydronic Coil, Capacity = 24 kBtu/h, Water Economizer	Fan System: AHU 1-14,21,22,B1-5 Compliance (Motor nameplate HP and fan efficiency method) : Passes
No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 45 kBtu/h, Water Economizer No minimum efficiency requirement applies	No minimum efficiency requirement applies Fan System: AHU 1-15,20 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans: FAN 15 Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 0.00 fan energy index , fan exception fan < 1 HP or < 0.89 kW
Fan System: AHU 1-8 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans: FAN 16 Supply, Constant Volume, 800 CFM, 0.4 motor nameplate hp, 0.00 fan energy index , fan exception: Single	1 AHU B1-1 (Single Zone):
Fans: FAN 9 Supply, Constant Volume, 1633 CFM, 1.0 motor nameplate hp, 1.00 fan energy index	fan < 1 HP or < 0.89 kW	Heating: 1 each - Central Furnace, Electric, Capacity = 34 kBtu/h No minimum efficiency requirement applies
1 AHU 1-9 (Single Zone):	1 AHU 1-16 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 34 kBtu/h	Cooling: 1 each - Hydronic Coil, Capacity = 54 kBtu/h, Water Economizer No minimum efficiency requirement applies
Heating: 1 each - Central Furnace, Electric, Capacity = 51 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 54 kBtu/h, Water Economizer	No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 34 kBtu/h, Water Economizer No minimum efficiency requirement applies	Fan System: AHU B1-1 Compliance (Motor nameplate HP and fan efficiency method) : Passes
Cooling: 1 each - Hydronic Coll, Capacity = 54 KBtu/n, Water Economizer No minimum efficiency requirement applies Fan System: AHU 1-9 Compliance (Motor nameplate HP and fan efficiency method) : Passes	No minimum efficiency requirement applies Fan System: AHU 1-16 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans: FAN 21 Supply, Constant Volume, 1783 CFM, 1.5 motor nameplate hp, 1.00 fan energy index
Fans:	Fans: FAN 17 Supply, Constant Volume, 1396 CFM, 1.0 motor nameplate hp, 1.00 fan energy index	1 AHU B1-2 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 68 kBtu/h
FAN 10 Supply, Constant Volume, 1377 CFM, 1.0 motor nameplate hp, 1.00 fan energy index	1 AHU 1-17 (Single Zone):	No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 93 kBtu/h, Water Economizer
1 AHU 1-10 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h	Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h No minimum efficiency requirement applies Ceoling: 1 each - Hydronic Ceil, Capacity = 120 kBtu/h, Water Economizer	No minimum efficiency requirement applies Fan System: AHU B1-2 Compliance (Motor nameplate HP and fan efficiency method) : Passes
No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 110 kBtu/h, Water Economizer No minimum efficiency requirement applies	Cooling: 1 each - Hydronic Coil, Capacity = 120 kBtu/h, Water Economizer No minimum efficiency requirement applies Fan System: AHU 1-17 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans: FAN 22 Supply Constant Volume, 2607 CEM, 1.5 motor namenlate hp. 1.00 fan energy index.
Fan System: AHU 1-10 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans:	FAN 22 Supply, Constant Volume, 2607 CFM, 1.5 motor nameplate hp, 1.00 fan energy indexAHU B1-3 (Single Zone):
Fans: FAN 11 Supply, Constant Volume, 3792 CFM, 3.0 motor nameplate hp, 1.00 fan energy index	FAN 18 Supply, Constant Volume, 4613 CFM, 5.0 motor nameplate hp, 1.00 fan energy index	Heating: 1 each - Central Furnace, Electric, Capacity = 17 kBtu/h No minimum efficiency requirement applies
1 AHU 1-11 (Single Zone):	1 AHU 1-18 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h	Cooling: 1 each - Hydronic Coil, Capacity = 12 kBtu/h, Water Economizer No minimum efficiency requirement applies
Heating: 1 each - Central Furnace, Electric, Capacity = 102 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 91 kBtu/h, Water Economizer	No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 93 kBtu/h, Water Economizer No minimum efficiency requirement applies	Fan System: AHU B1-3 Compliance (Motor nameplate HP and fan efficiency method) : Passes
Cooling: 1 each - Hydronic Coil, Capacity = 91 kBtu/h, Water Economizer No minimum efficiency requirement applies Fan System: AHU 1-11 Compliance (Motor nameplate HP and fan efficiency method) : Passes	No minimum efficiency requirement applies Fan System: AHU 1-18 Compliance (Motor nameplate HP and fan efficiency method) : Passes	Fans: FAN 23 Supply, Constant Volume, 500 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: fan < 1 HP or < 0.89 kW
Fans:	Fans: FAN 19 Supply, Constant Volume, 3563 CFM, 3.0 motor nameplate hp, 1.00 fan energy index	1 AHU B1-4 (Single Zone):
FAN 12 Supply, Constant Volume, 3238 CFM, 3.0 motor nameplate hp, 1.00 fan energy index		Heating: 1 each - Central Furnace, Electric, Capacity = 51 kBtu/h
roject Title: 22010703 Killearn Clubhouse Report date: 06/29/23 ata filename: Page 2 of 14	Project Title: 22010703 Killearn Clubhouse Report date: 06/29/23 Data filename: Page 3 of 14	Project Title: 22010703 Killearn Clubhouse Report date: Data filename: Page
Puantity System Type & Description 1 DOAS IDU-2 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment No minimum efficiency requirement applies	COMcheck Software Version COMcheckWeb Inspection Checklist	Section # & Req.ID Footing / Foundation Inspection Complies? Comments/Assumptions & Req.ID C403.2.4. Snow/ice melting system and freeze protection systems have sensors and IFO913 Complies Requirement will be met.
 DOAS IDU-2 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment 	Inspection Checklist Energy Code: 2020 Florida Building Code, Energy Conservation Requirements: 100.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided. Section # Plan Review Complies? Comments/Assumptions	# Footing / Foundation Inspection Complies? Comments/Assumptions & Req.ID C403.2.4. Snow/ice melting system and freeze Complies Requirement will be met.
 DOAS IDU-2 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment No minimum efficiency requirement applies Fan System: DOAS 2 Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 26 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index DOAS IDU-3 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment No minimum efficiency requirement applies Fan System: DOAS 3 Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: 	Section Plan Review Complies? Comments/Assumptions C103.2 Plans, specifications, and/or □Complies Requirement will be met.	# & Req.ID Footing / Foundation Inspection Complies? Comments/Assumptions C403.2.4. 5 Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls. Complies Requirement will be met.
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 DOAS 100-2 (Single Zone): Cooling: 1 exh - VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Regimment. Na System: DOAS 2 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 26 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index DOAS 1DU-3 (Single Zone): Cooling: 1 exh - VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Emerant Motor VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Emerant Motor VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Emerant Ma 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 55 kBtu/h Proposed Efficiency 92.00% EL Required Efficiency: 80.00 %, Et or 80% AFUE Coling: 1 each - Contral Furnace, Gas, Capacity = 55 kBtu/h Proposed Efficiency 92.00% EL Required Efficiency: 80.00 %, Et or 80% AFUE Coling: 1 each - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 950 CFM, 0.5 motor nameplate hp, 0.00 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW MAU 2 (Single Zone): Heating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu/h eating: 1 each - Christ Furnace, Gas, Capacity = 195 kBtu	Section Plan Review Comples? Comments/Assumptions C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. Vot Observable Not Observable Not Observable Applicable Not Observable Not Observable Mot Observable Not Observable Not Observable	# & Req.ID Footing / Foundation Inspection Complies? Comments/Assumptions C403.2.4. 5 Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls. Complies? Requirement will be met.
 DOAS 100-2: Golingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Fan System: DOAS 2 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 26 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index DOAS 100-3: Gingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment No minimum efficiency requirement applies Fan System: DOAS 3 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): Heating: 1 each - Cond (Single Cond): 5 St Btu/h Proposed Efficiency requirement applies Fan System: MAU 1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 950 CFM, 0.5 motor nameplate hp, 0.00 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW MAU 2 (Single Zone): Heating: 1 each - DoAS (Dehumification), Capacity = 195 kBtu/h Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - DAS (De humification), Capacity = 191 kBtu/h, Air-Cooled Condenser, Air Economizer No minimum efficiency requirement applies Fans : FAN 28 Supply, Constant Volume, 3360 CFM, 3.0 motor nameplate hp, 0.00 fan energy index , fan exception: Part of code listed equipment ACH 1: Cooling: Water	Section Plan Review Comples? Comments/Assumptions C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. Vot Observable Not Observable Not Observable Applicable Not Observable Not Observable Mot Observable Not Observable Not Observable	# & Req.ID Footing / Foundation Inspection Complies? Comments/Assumptions C403.2.4. 5 Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls. Complies? Requirement will be met.
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 DOAS 100-2: Golingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Fan System: DOAS 2 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 26 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index DOAS 100-3: Gingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment No minimum efficiency requirement applies Fan System: DOAS 3 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): Heating: 1 each - Cond (Single Cond): 5 St Btu/h Proposed Efficiency requirement applies Fan System: MAU 1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 950 CFM, 0.5 motor nameplate hp, 0.00 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW MAU 2 (Single Zone): Heating: 1 each - DoAS (Dehumification), Capacity = 195 kBtu/h Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - DAS (De humification), Capacity = 191 kBtu/h, Air-Cooled Condenser, Air Economizer No minimum efficiency requirement applies Fans : FAN 28 Supply, Constant Volume, 3360 CFM, 3.0 motor nameplate hp, 0.00 fan energy index , fan exception: Part of code listed equipment ACH 1: Cooling: Water	Section Plan Review Comples? Comments/Assumptions C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. Vot Observable Not Observable Not Observable Applicable Not Observable Not Observable Mot Observable Not Observable Not Observable	# & Req.ID Footing / Foundation Inspection Complies? Comments/Assumptions C403.2.4. 5 Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls. Complies Requirement will be met.
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 DOAS 100-2: Golingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Fan System: DOAS 2 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 26 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index DOAS 100-3: Gingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment No minimum efficiency requirement applies Fan System: DOAS 3 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): Heating: 1 each - Cond (Single Cond): 5 St Btu/h Proposed Efficiency requirement applies Fan System: MAU 1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 950 CFM, 0.5 motor nameplate hp, 0.00 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW MAU 2 (Single Zone): Heating: 1 each - DoAS (Dehumification), Capacity = 195 kBtu/h Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - DAS (De humification), Capacity = 191 kBtu/h, Air-Cooled Condenser, Air Economizer No minimum efficiency requirement applies Fans : FAN 28 Supply, Constant Volume, 3360 CFM, 3.0 motor nameplate hp, 0.00 fan energy index , fan exception: Part of code listed equipment ACH 1: Cooling: Water	Section Plan Review Comples? Comments/Assumptions C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. C103.2 Plans, specifications, and/or Complies Requirement will be met. Vot Observable Not Observable Not Observable Applicable Not Observable Not Observable Mot Observable Not Observable Not Observable	# & Req.ID Footing / Foundation Inspection Complies? Comments/Assumptions C403.2.4. 5 Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls. Complies Requirement will be met.
 DOAS 100-2: Golingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Fan System: DOAS 2 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 26 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index DOAS 100-3: Gingle Zone): Cooling: 1 each : VRF Zone Fan Unit, Capacity = 131 kBtu/h, No Economizer, Economizer exception: High Efficiency Equipment No minimum efficiency requirement applies Fan System: DOAS 3 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): FAN 27 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 1.00 fan energy index MAU 1 (Single Zone): Heating: 1 each - Cond (Single Cond): 5 St Btu/h Proposed Efficiency requirement applies Fan System: MAU 1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 27 Supply, Constant Volume, 950 CFM, 0.5 motor nameplate hp, 0.00 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW MAU 2 (Single Zone): Heating: 1 each - DoAS (Dehumification), Capacity = 195 kBtu/h Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - DAS (De humification), Capacity = 191 kBtu/h, Air-Cooled Condenser, Air Economizer No minimum efficiency requirement applies Fans : FAN 28 Supply, Constant Volume, 3360 CFM, 3.0 motor nameplate hp, 0.00 fan energy index , fan exception: Part of code listed equipment ACH 1: Cooling: Water	<form></form>	# eq.10 Footing / Foundation inspection Complies? Comments/Assumptions C403.2.4. Snowlice melting system and freeze December 2000 Requirement will be met. [Too]? Contrais configured to limit service for Does Nat Requirement will be met. Contrais configured to limit service for Does Nat Requirement will be met. Contrais. Future connection to contrais. Nat Observable Additional Comments/Assumptions: Additional Comments/Assumptions



Drawn By: STH Checked By: SP Project Number: 22010703





8/21/2023



No.	Description	Date
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					MECHANIC	AL VEN	ITILATION SU	MMARY - Al	HU 1-1
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone (air
180	Pro Shop	1851	0.12	222	15	28	7.5	208	430
Totals		1851		222		28		208	430
ased on 2020 Flor	ida Mechanical Code C	hapter 4, Ventila	tion, Table 403.3.1.1				•	•	•

					MECHANIC	AL VEN	ITILATION SU	MMARY - Al	HU 1-2				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
150	Mens Lounge	655	0	0	0	0	0	0	0	0.8	0	2330	0.00
161	Mens Locker	617	0	0	0	0	0	0	0	0.8	0	750	0.00
Totals		1272		0		0		0	0		0	3080	0.00
Based on 2020 Florid	da Mechanical Code Ch	apter 4, Ventila	tion, Table 403.3.1.1										

	MECHANICAL VENTILATION SUMMARY - AHU 1-3													
Room	Room Area (ft ²) Area Outdoor Air Rate per Table 403.3.1.1 Area Outdoor Air Area Outdoor Air (People/1000 s.f.) Occupant Load rate per Table 403.3.1.1 Occupant Outdoor Air Rate per Table 403.3.1.1 Description Zone Air Distribution Effectiveness Zone Outdoor Air Supply Air Design Outdoor Air Fraction													
141	Conference	251	0.06	15	50	13	5	63	78	0.8	97	675	0.14	
Totals	Totals 251 15 13 63 78 97 675 0.14													
Based on 2020 Florid	Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

	MECHANICAL VENTILATION SUMMARY - AHU 1-4													
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction	
100 D.1	Laundry Room	78	0.12	9	20	2	7.5	12	21	0.8	26	85	0.31	
100 E.1	Mail Room	85	0.06	5	5	0	5	2	7	0.8	9	55	0.16	
170	Break Room	480	0.06	29	30	14	5	72	101	0.8	126	1380	0.09	
171	Vestibule	115	0.06	7	0	0	0	0	7	0.8	9	50	0.17	
Totals		758		50		16		86	136		170	1570	0.11	
Based on 2020 Florid	Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

	MECHANICAL VENTILATION SUMMARY - AHU 1-5													
Room	Room Area (ft ²) Area Outdoor Air Rate per Table 403.3.1.1 Area Outdoor Air Rate (People/1000 s.f.) Occupant Load rate per Table 403.3.1.1 Occupant Outdoor Air Rate per Table 403.3.1.1 Breathing Zone Outdoor Air Rate air Zone Air Distribution Effectiveness Zone Outdoor Air Supply Air Design Outdoor Air Fraction													
140	Open Office Suite	773	0.06	46	5	4	5	19	66	0.8	82	1840	0.04	
Totals		773		46		4		19	66		82	1840	0.04	
Based on 2020 Flori	ida Mechanical Code Cha	apter 4, Ventilat	ion, Table 403.3.1.1											

					MECHANIC	AL VEN	ITILATION SU	MMARY - AI	HU 1-6				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
140 A	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
140 B	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
140 C	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
140 D	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
Totals		548		33		3		14	47		58	500	0.12
Based on 2020 Flori	da Mechanical Code Cl	napter 4, Ventila	ation, Table 403.3.1.1		•		•		· ·		·		

					MECHANIC	AL VEN	ITILATION SU	MMARY - Ał	HU 1-7					
Room	Room Area (ft ²) Area Outdoor Air Rate per Table 403.3.1.1 Area Outdoor Air Rate (Feople/1000 s.f.) Occupant Load rate per Table 403.3.1.1 Occupant Outdoor Air Rate per Table 403.3.1.1 Breathing Zone Outdoor Air Zone Air Distribution Effectiveness Zone Outdoor Air Supply Air Design Outdoor Air Fraction													
100.E	Pro Shop Lobby	574	0.06	34	10	6	5	29	63	0.8	79	650	0.12	
100.D	Corridor 03	932	0.06	56	0	0	0	0	56	0.8	70	615	0.11	
Totals		1506		90		6		29	119		149	1265	0.12	
Based on 2020 Florid	da Mechanical Code Cha	apter 4, Ventila	tion, Table 403.3.1.1				•		•		•			

MECHANICAL VENTILATION SUMMARY - AHU 1-8														
Room	Room Area (ft ²) Area Outdoor Air Rate per Table 403.3.1.1 Occupant Load rate per Table 403.3.1.1 Occupant Outdoor Air Rate per Table 403.3.1.1 Occupant Outdoor Air Rate per Table 403.3.1.1 Breathing Zone Outdoor Air air Zone Air Distribution Effectiveness Zone Outdoor Air Supply Air Design Outdoor Air Fraction													
150	Women's Lounge	657	0	0	0	0	0	0	0	0.8	0	800	0.00	
151	Women's Locker	429	0	0	0	0	0	0	0	0.8	0	670	0.00	
Totals		429		0		0		0	0		0	1470	0.00	

	MECHANICAL VENTILATION SUMMARY - AHU 1-9												
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
131	Game Room	880	0.18	158	20	18	7.5	132	290	0.8	363	1380	0.26
Totals		0		0		0		0	0		363	1380	0.26
Based on 2020 Flori	da Mechanical Code Ch	apter 4, Ventila	tion, Table 403.3.1.1										

					MECHANIC	AL VEN	TILATION SUN	MMARY - AF	IU 1-10				
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fractic
130.A	Storage	122	0.12	15	0	0	0	0	15	0.8	18	100	0.18
130.B	Phone Booth	65	0.06	4	5	0	5	2	6	0.8	7	50	0.14
130.C	Phone Booth	58	0.06	3	5	0	5	1	5	0.8	6	50	0.12
130.D	Restroom	39	0	0	0	0	0	0	0	0.8	0	50	0.00
108	Coffee Bar	1052	0.06	63	30	32	5	158	221	0.8	276	2070	0.13
109	Co-Work	1224	0.06	73	5	6	5	31	104	0.8	130	1725	0.08
Totals		2560		159		38		191	350		438	4045	0.11

					MECHANICA	AL VEN	TILATION SUN	/MARY - AF	IU 1-11				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
106	Trackman	1702	0.06	102	10	17	5	85	187	0.8	234	2560	0.09
107	Private Trackman 2	517	0.06	31	10	5	5	26	57	0.8	71	640	0.11
Totals		2219		133		22		111	244		305	3200	0.10
Based on 2020 Flor	ida Mechanical Code Cha	apter 4, Ventila	tion, Table 403.3.1.1			I			1				

					MECHANICA	AL VEN	TILATION SUN	MMARY - AH	IU 1-12				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
140E	GM Office	181	0.06	11	5	4	5	20	31	0.8	39	500	0.08
Totals		181		11		4		20	31		39	500	0.08
Based on 2020 Florid	da Mechanical Code Ch	apter 4, Ventilat	tion, Table 403.3.1.1										

					MECHANIC	AL VEN	TILATION SUN	/IMARY - AH	IU 1-14				
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100C.2	Elec	89	0	0	0	0	0	0	0	0.8	0	400	0.00
Totals		89		0		0		0	0		0	400	0.00
Based on 2020 Florid	da Mechanical Code Ch	apter 4, Ventila	tion, Table 403.3.1.1				·				•		

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					MECHANICA	AL VEN	TILATION SUN	/MARY - AF	IU 1-15				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100C.1	MDF	76	0	0	0	0	0	0	0	0.8	0	800	0.00
Totals		76		0		0		0	0		0	800	0.00

					MECHANICA	AL VEN	TILATION SUN	/MARY - AH	IU 1-16				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
103	Private Dining	450	0.18	81	70	32	7.5	236	317	0.8	397	1180	0.34
Totals		450		81		32		236	317		397	1180	0.34
Based on 2020 Flori	da Mechanical Code Ch	apter 4, Ventila	tion, Table 403.3.1.1										

					MECHANIC	AL VEN	TILATION SUM	MMARY - AH	IU 1-17				
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100A	Corridor 02	785	0.06	47	0	0	0	0	47	0.8	59	400	0.15
100	Entry Lobby	267	0.06	16	10	3	5	13	29	0.8	37	400	0.09
101	Lounge	321	0.18	58	70	22	7.5	169	226	0.8	283	1100	0.26
102	Dining	1025	0.18	185	70	72	7.5	538	723	0.8	903	1600	0.56
104	Bar	180	0.18	32	100	18	7.5	135	167	0.8	209	900	0.23
Totals		785		338		115		855	1193		1491	4400	0.34

					MECHANICA	AL VEN	TILATION SUN	/IMARY - AH	IU 1-18				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
101	Lounge	321	0.18	58	70	22	7.5	169	226	0.8	283	510	0.55
102	Dining	1025	0.18	185	70	72	7.5	538	723	0.8	903	1275	0.71
104	Bar	180	0.18	32	100	18	7.5	135	167	0.8	209	1275	0.16
Totals		1526		275		112		842	1116		1395	3060	0.46

					MECHANIC	AL VEN	TILATION SUN	MMARY - AF	IU 1-19				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
110A	Corridor	158	0.06	9	0	0	0	0	9	0.8	12	510	0.02
114	Vestibule	57	0.06	3	0	0	0	0	3	0.8	4	50	0.09
115	Chef's Office	179	0.06	11	5	1	5	4	15	0.8	19	250	0.08
116	Storage	113	0.12	14	0	0	0	0	14	0.8	17	100	0.17
111	Back Kitchen*	919	0.12	110	20	18	7.5	138	248	0.8	310	2960	0.10
110	Front Kitchen*	695	0.12	83	20	14	7.5	104	188	0.8	235	1680	0.14
Totals		2121		231		33		247	477		597	5550	0.11

					MECHANICA	AL VEN	TILATION SUM	/MARY - AF	IU 1-21				
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
112	Dry Storage	296	0	0	0	0	0	0	0	0.8	0	400	0.00
Totals		296		0		0		0	0		0	400	0.00
Based on 2020 Flori	da Mechanical Code Ch	apter 4, Ventila	tion, Table 403.3.1.1										

					MECHANICA	AL VEN	TILATION SUN	MMARY - AH	IU 1-22				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
0113	Trash	378	0	0	0	0	0	0	0	0.8	0	885	0.00
Totals		378		0		0		0	0		0	885	0.00
Based on 2020 Floric	a Mechanical Code Ch	apter 4, Ventila	tion, Table 403.3.1.1										

					MECHANICA	AL VEN	TILATION SUN	/IMARY - AH	IU B1-1						
Room	(People/1000 s.f.) per lable 403.3.1.1 (People/1000 s.f.)														
000	Cart Barn	3606	0.06	216	0	0	0	0	216	0.8	270	1780	0.15		
Totals		3606		216		0		0	216		270	1780	0.15		
Based on 2020 Florid	da Mechanical Code Ch	apter 4, Ventilat	tion, Table 403.3.1.1												

					MECHANICA	AL VEN	TILATION SUN	/MARY - AH	IU B1-2				
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fractic
000	Cart Barn	3606	0.06	216	0	0	0	0	216	0.8	270	2740	0.10
007	Storage	159	0.12	19	0	0	0	0	19	0.8	24	120	0.20
Totals		3765		235		0		0	235		294	2860	0.10

	MECHANICAL VENTILATION SUMMARY - AHU B1-3												
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
001	Bag Storage	160	0.12	19	0	0	0	0	19	0.8	24	230	0.10
002	Ice Room	130	0.12	16	5	1	5	3	19	0.8	24	360	0.07
003	Office	127	0.06	8	5	1	5	3	11	0.8	13	95	0.14
004	Tool Storage	43	0.12	5	0	0	0	0	5	0.8	6	360	0.02
Totals		460		48		1		6	54		68	1045	0.06
Based on 2020 Flori	sed on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1												

	MECHANICAL VENTILATION SUMMARY - AHU B1-4													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fractio	
000A	Corridor	496	0.06	30	0	0	0	0	30	0.8	37	230	0.16	
010	Basement Entry	220	0.06	13	10	2	5	11	24	0.8	30	360	0.08	
010A	Storage	328	0.12	39	0	0	0	0	39	0.8	49	95	0.52	
011	Service	327	0.12	39	20	7	7.5	49	88	0.8	110	360	0.31	
020	Wine Cellar	583	0.12	70	0	0	0	0	70	0.8	87	1000	0.09	
Totals		1954		192		9		60	252		314	2045	0.15	

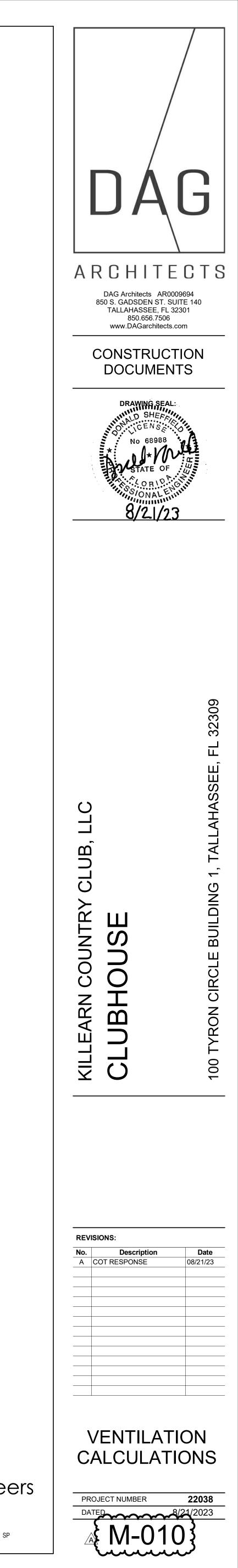
MECHANICAL VENTILATION SUMMARY - AHU B1-5													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
006	Mech / Elec	248	0	0	0	0	0	0	0	0.8	0	400	0.00
Totals		248		0		0		0	0		0	400	0.00

4

5

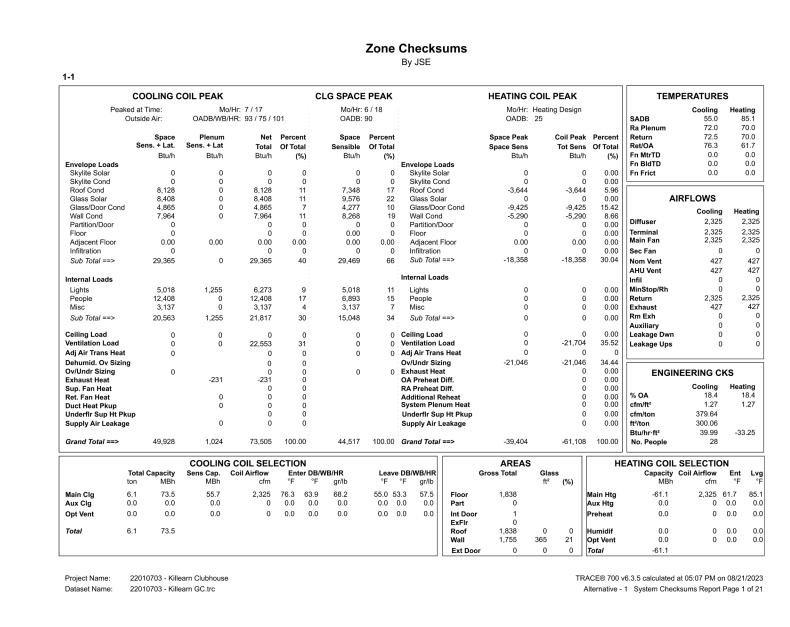
oor	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
	0.8	538	2330	0.23
		538	2330	0.23





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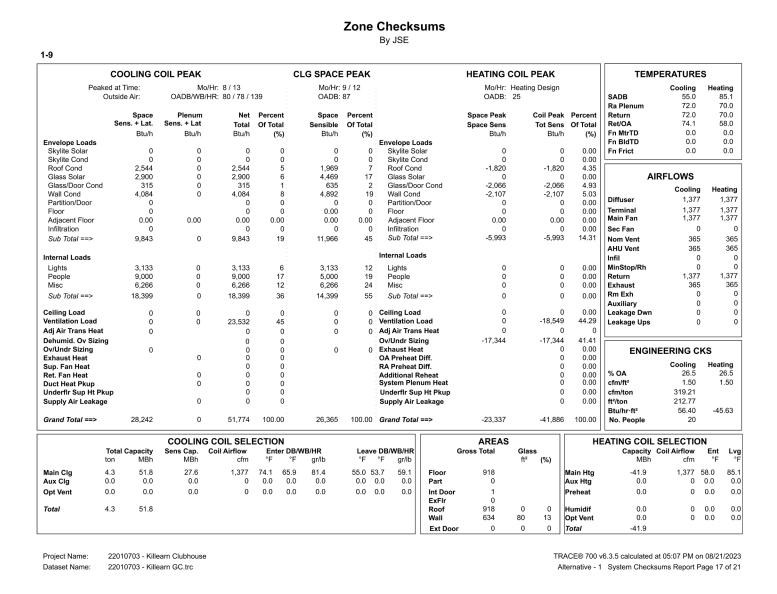
	COOLING				CLG SPACE	PFAK			HEATING	COIL PEAK		ТЕМ	PERATURE	s
Peal	ed at Time:		Hr: 8 / 18		Mo/Hr:					Heating Design			Cooling	Heatin
	Outside Air:	OADB/WB/H	IR: 78/77/1	139	OADB:	90			OADB:	25		SADB	55.0	85. 70.
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total		Percent Of Total			Space Peak Space Sens	Coil Peak	Percent Of Total	Ra Plenum Return Ret/OA	72.0 72.0 72.5	70. 70. 66.
	Btu/h	Btu/h	Btu/h	(%)		(%)			Btu/h	Btu/h		Fn MtrTD	0.0	0.
Envelope Loads				. ,		. ,	Envelope Lo					Fn BldTD	0.0	0.
Skylite Solar	0	0	0	0		0	Skylite Sc		0	0		Fn Frict	0.0	0
Skylite Cond	0	0	0	0	0	0	Skylite Co	nd	0	0	0.00			
Roof Cond	4,831	0	4,831	11	5,957	16	Roof Con	b	-2,954	-2,954	7.30			
Glass Solar	8,210	0	8,210	18		24	Glass Sol		0	0	0.00	A	IRFLOWS	
Glass/Door Cond	689	0	689	2		5			-4,131	-4,131	10.20		Cooling	Heat
Wall Cond	3,774	0	3,774	8	4,562	12	Wall Cond	1	-1,481	-1,481	3.66	Diff		
Partition/Door	0		0	0		0		Door	0	0		Diffuser	1,942	
Floor	0		0	0		0	Floor		0	0		Terminal	1,942	
Adjacent Floor	0.00	0.00	0.00	0.00		0.00	Adjacent		0.00	0.00		Main Fan	1,942	
Infiltration	0		0	0	0	0	Infiltration		0	0	0.00	Sec Fan	0	
Sub Total ==>	17,504	0	17,504	39	21,457	58	Sub Total	==>	-8,567	-8,567	21.16	Nom Vent	149	
												AHU Vent	149	
nternal Loads							Internal Loa	ds				Infil	0	
Lights	5,085	0	5,085	11	5,085	14	Lights		0	0	0.00	MinStop/Rh	0	
People	5,000	0	5,000	12		8			0	0		Return	1.942	
Misc	7,628	0	7,628	17		21	Misc		0	0		Exhaust	149	
												Rm Exh	0	
Sub Total ==>	18,113	0	18,113	40	15,713	42	Sub Total	==>	0	0	0.00		0	
							0		0	0	0.00	Auxiliary	0	
Ceiling Load	0	0	0	0		0			0	-7,588		Leakage Dwn	-	
entilation Load	0	0	9,313	21	-	0						Leakage Ups	0	
Adj Air Trans Heat	0		0	0		0			0	0				
Dehumid. Ov Sizir			0	0			Ov/Undr Siz		-24,335	-24,335				
Dv/Undr Sizing	0		0	0		0				0		ENGIN	IEERING C	KS
Exhaust Heat		0	0	0			OA Preheat			0			Caaling	Usatin
Sup. Fan Heat			0	0			RA Preheat			0		% OA	Cooling 7.7	Heatir 7
Ret. Fan Heat		0	0	0			Additional F			0				
Duct Heat Pkup		0	0	0			System Pler			0		cfm/ft ²	1.30	1.3
Jnderfir Sup Ht Pl	•		0	0			Underflr Su			0		cfm/ton	518.59	
Supply Air Leakag	e	0	0	0			Supply Air L	.eakage		0	0.00	ft²/ton	397.96	
Grand Total ==>	35,617	0	44,930	100.00	37,171	100.00	Grand Total	==>	-32,902	-40,489	100.00	Btu/hr·ft ² No. People	30.15 12	-27.1
		COOLING	COIL SELI	ECTION					AREAS	;	н		SELECTIO	N
	ton MBh	Sens Cap. MBh	Coil Airflow cfm	Enter °F	°F gr/lb		e DB/WB/HR °F gr/lb		Gross Total	Glass ft ² (%)		Capacity MBh	Coil Airflow cfm	Ent °F
lain Clg	3.7 44.9	34.3	1,942	72.5 6	66.7	55.0 5	61.9	Floor	1,490		Main Htg	-40.5	1,942	66.5
ux Clg	0.0 0.0	0.0	.,		0.0 0.0		0.0 0.0	Part	0		Aux Htg	0.0	0	0.0
opt Vent	0.0 0.0	0.0	ů 0		0.0 0.0		0.0 0.0	Int Door	-		Preheat	0.0	0	0.0
pr vent	0.0	0.0	0	0.0	0.0 0.0	0.0	0.0	ExFlr	0		rieneat	0.0	0	0.0
otal	3.7 44.9							Roof	1,490	0 0	Humidif	0.0	0	0.0
otar	5.7 44.9							Wall	549		Opt Vent	0.0	0	0.0
													0	0.0
								Ext Doo	r 0	0 0	Total	-40.5		

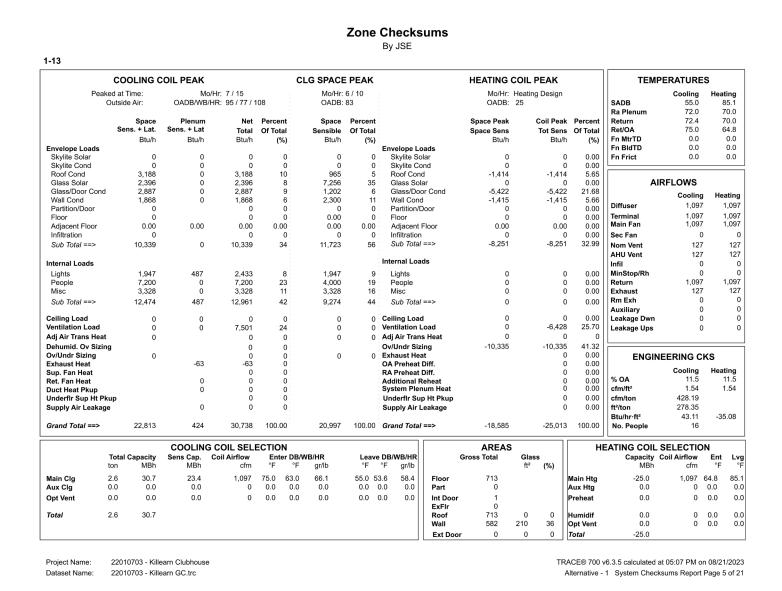
Alternative - 1 System Checksums Report Page 13 of 21

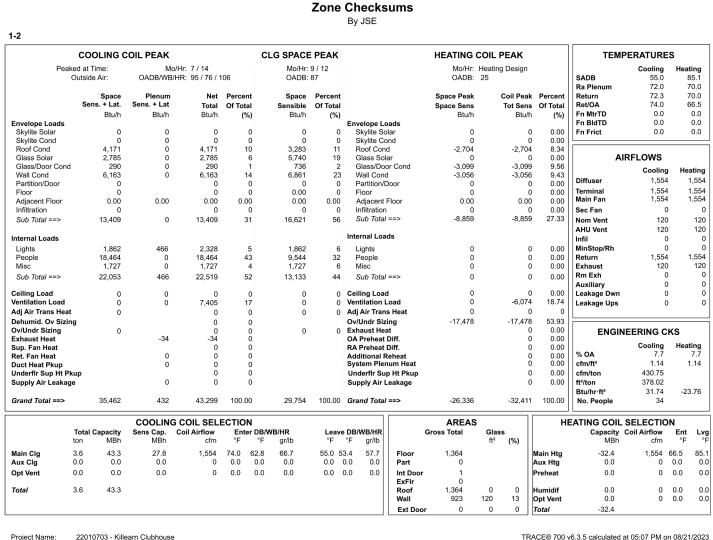
2

Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - Killearn GC.trc

1







Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - Killearn GC.trc

Dataset Name: 22010703 - Killearn GC.trc

TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023 Alternative - 1 System Checksums Report Page 10 of 21

Alternative - 1 System Checksums Report Page 14 of 21

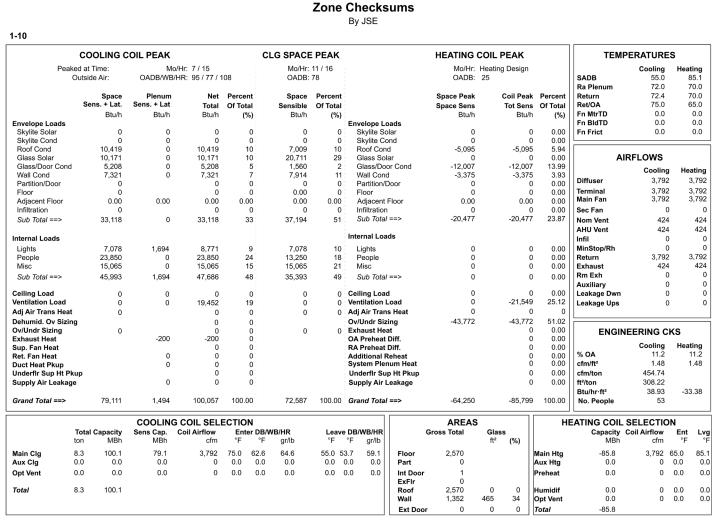
TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023

Alternative - 1 System Checksums Report Page 2 of 2

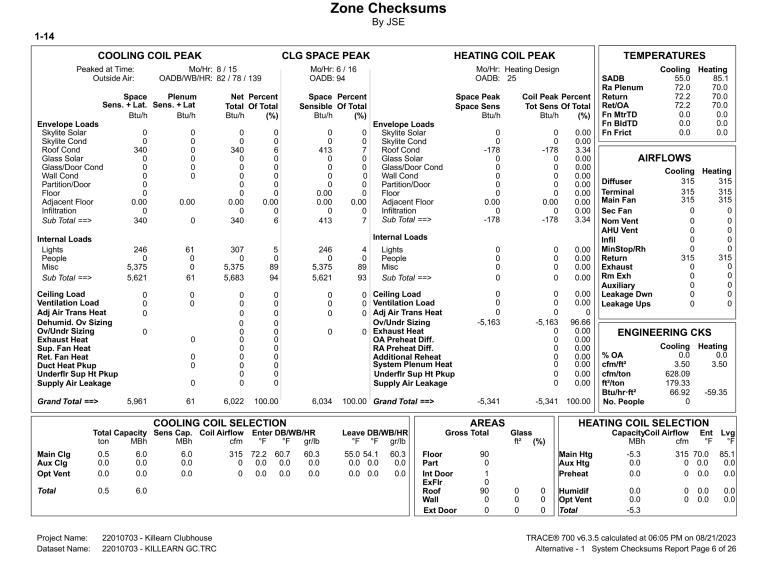
	co	OLING C	OIL PEAK			CLG SPAC	E PEAK			HEATING C	OIL PEAK		TEM	PERATURE	s	
Pea	ked at ⁻ Outsid			Hr: 8/16 IR: 82/78/1	120	Mo/H OADE	r: 6 / 16			Mo/Hr: I OADB:	Heating Design		SADB	Cooling 55.0	Hea	ting 85.1
	Outsiu	e All .	OADB/WB/F	IR. 02/70/1	139	OADE	. 54			OADB.	20		Ra Plenum	72.0		70.0
		Space	Plenum	Net	Percent	Space	Percent			Space Peak	Coil Pea	Percent	Return	72.0		70.0
	Se	is. + Lat.	Sens. + Lat	Total	Of Total	Sensible				Space Sens	Tot Sen		Ret/OA	74.1		60.1
		Btu/h	Btu/h	Btu/h	(%)	Btu/ł				Btu/h	Btu/		Fn MtrTD	0.0		0.0
nvelope Loads		Blu/II	Blu/II	Blu/II	(70)	Blu/I	ı (%)	Envelope	Laada	Blu/II	Blu/	ו (%)	Fn BldTD	0.0		0.0
Skylite Solar		0	0	0	0	(0	Skylite		0		0.00	Fn Frict	0.0		0.0
Skylite Cond		0	0	0	0	(Skylite		0			FILFICE	0.0		0.0
Roof Cond		1.964	0	1.964	12	2.323		Roof Co		-1.003	-1,00					
Glass Solar		1,964	0	1,964	12	2,323		Glass S		-1,003	-1,00			IRFLOWS		
		0	0		0	(0			*	IKFLOWS		
Glass/Door Con	a			0					oor Cond					Cooling	He	ating
Wall Cond		0	0	0	0	(0			Diffuser	413		413
Partition/Door		0		0	0	(Partition	/Door	0			Terminal	413		413
Floor		0		0	0	0.00		Floor		0						
Adjacent Floor		0.00	0.00	0.00	0.00	0.00		Adjacer		0.00	0.0		Main Fan	413		413
Infiltration		0		0	0	(0	Infiltratio	on	0			Sec Fan	0		(
Sub Total ==>		1,964	0	1,964	12	2,323	29	Sub Tot	al ==>	-1,003	-1,00	8 8.65	Nom Vent	90		90
													AHU Vent	90		90
nternal Loads								Internal Lo	bads				Infil	0		(
		1 707	0	1.727	11	1 70		Lighto		0		0.00	MinStop/Rh	0		c
Lights		1,727		5,400	11	1,727 3.000		Lights		0			Return	413		413
People		5,400	0		34			People		0						90
Misc		863	0	863	5	863		Misc		0			Exhaust	90		
Sub Total ==>		7,990	0	7,990	50	5,590) 71	Sub Tot	al ==>	0		0.00	Rm Exh	0		C
													Auxiliary	0		0
Ceiling Load		0	0	0	0	(0 0	Ceiling Lo	ad	0			Leakage Dwn	0		C
lentilation Load		0	0	5,973	38	(0 0	Ventilation	1 Load	0	-4,58	39.58	Leakage Ups	0		C
Adj Air Trans Hea	ıt	0		0	0	(0	Adj Air Tra	ins Heat	0	() 0				
Dehumid. Ov Sizi	na			0	0			Ov/Undr S	izina	-6,001	-6,00	51.76				
Dv/Undr Sizing	9	0		0	0	(0	Exhaust H		0,001	0,00			NEERING C	V.C	
Exhaust Heat		0	0	ő	0	, i i i i i i i i i i i i i i i i i i i	, 0	OA Prehea					ENGI	NEEKING CI	13	
Sup. Fan Heat			Ŭ	Ő	0			RA Prehea						Cooling	Hea	tina
Ret. Fan Heat			0	Ő	0			Additiona					% OA	21.9	2	21.9
Ouct Heat Pkup			0	0	0				enum Heat				cfm/ft ²	0.82	(0.82
Jnderfir Sup Ht F	kun		0	0	Ő				up Ht Pkup				cfm/ton	311.44		
			0	0	0											
Supply Air Leaka	ge		0	0	0			Supply Ai	гсеакаде			0.00	ft²/ton	381.22	~	
Grand Total ==>		9,954	0	15,928	100.00	7,913	100.00	Grand Tot	al ==>	-7,005	-11,59	100.00	Btu/hr·ft² No. People	31.48 12	-24	2.91
			COOLING	COIL SELI	ECTION					AREAS		Н	EATING COIL	SELECTIO	N	
	Total ton	Capacity MBh	Sens Cap. 0 MBh	Coil Airflow cfm	Enter °F	DB/WB/HR °F gr/lb	Leav °F	• DB/WB/HF °F gr/lb	2	Gross Total	Glass ft ² (%)		Capacity MBh	Coil Airflow cfm	Ent °F	L٧
lain Clg	1.3	15.9	8.5	413		5.1 77.8	55.0 5		Floor	506		Main Htg	-11.6		60.1	85
ux Clg	0.0	0.0	0.0	0		0.0 0.0		0.0 0.0	Part	0		Aux Htg	0.0	0	0.0	0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0 0.0	0.0	0.0 0.0	Int Door ExFlr	1 0		Preheat	0.0	0	0.0	0
otal	1.3	15.9							Roof	506	0 0	Humidif	0.0	0	0.0	C
									Wall	0	õ õ	Opt Vent	0.0	ő	0.0	ŏ
											0 0			0	5.0	
									Ext Doo	r U	0 0	Total	-11.6			

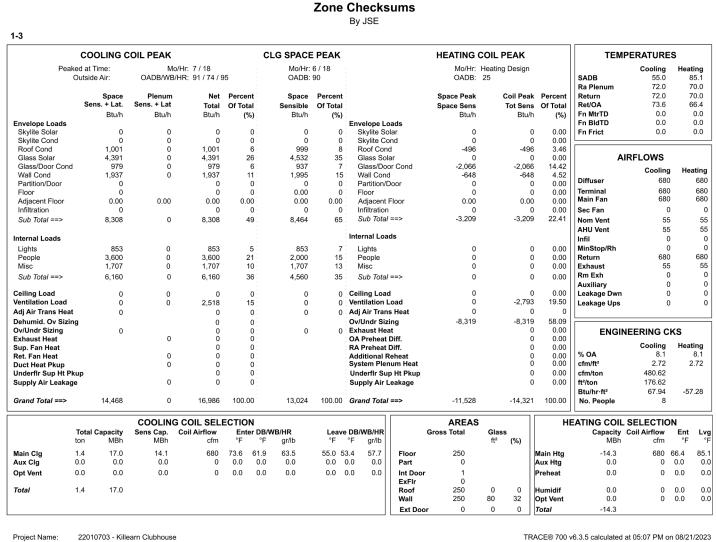
Zone Checksums

By JSE



Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - Killearn GC.trc





Zone Checksums By JSE COOLING COIL PEAK CLG SPACE PEAK Peaked at Time: Mo/Hr: 7 / Mo/Hr: 6 / 17 OADB/WB/HR: 93 / 75 / 101 Outside Air: OADB: 93 Space Percent Space Plenum Sens. + Lat. Sens. + Lat Sensible Of Total Btu/h (%) Total Of Total Btu/h Btu/h Envelope Loads Skylite Solar Skylite Cond Roof Cond Glass Solar Glass/Door Cond Wall Cond Partition/Door Floor Adjacent Floor Infiltration Envelope Loads Skylite Solar Skylite Cond Roof Cond Glass Solar Glass/Door Cond Wall Cond Partition/Door Floor 9,999 5,165 1,875 985 10,275 4,404 2,133 10,275 4,404 2,133
 0
 0
 Partituon/Doci

 0.00
 0
 Floor

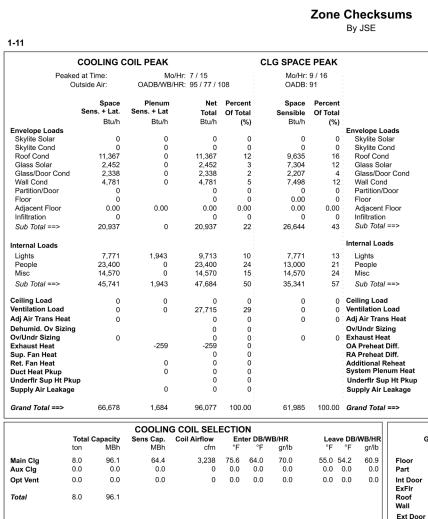
 0.00
 0.00
 Adjacent Floor

 0
 0
 Infiltration
 0.00 0.00 0.00 Sub Total ==> 17,676 18,024 Sub Total ==> Internal Loads Internal Loads 6,193 0 0 Lights People Misc 6,193 26 Lights 0 People 0 Misc 0 0 0 0 6,193 Sub Total ==> 6,193 1,548 26 Sub Total ==> Ceiling Load Ventilation Load Adj Air Trans Heat 0 Ceiling Load 7,616 0 Ventilation Load 0 Adj Air Trans Heat Dehumid. Ov Sizing Ov/Undr Sizing Exhaust Heat Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup Underfir Sup Ht Pkup Ov/Undr Sizing Exhaust Heat OA Preheat Diff. RA Preheat Diff. 0 -198 0 0 0 Supply Air Leakage Supply Air Leakage Grand Total ==> 1,350 32,834 100.00 24,217 100.00 Grand Total ==> 23,868 COOLING COIL SELECTION tal Capacity Sens Cap. Coil Airflow Enter DB/WB/HR MBh MBh cfm °F °F ɑr/lb 55.0 54.2 0.0 0.0 Main Clg Aux Clg 1,265 75.3 62.9 0 0.0 0.0 65.4 0 0.0 0.0 0.0 0.0 0.0 Opt Vent 0.0 0.0 0.0 2.7 32.8 Total

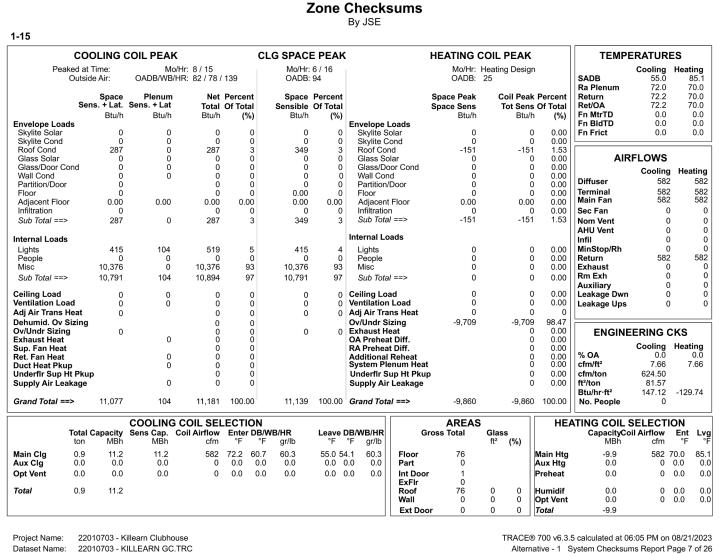
Dataset Name: 22010703 - Killearn GC.trc

Project Name: 22010703 - Killearn Clubhouse

Dataset Name: 22010703 - Killearn GC.trc



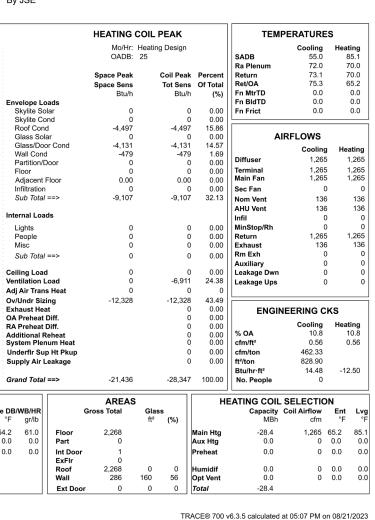
Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - Killearn GC.trc



Dataset Name: 22010703 - KILLEARN GC.TRC

4

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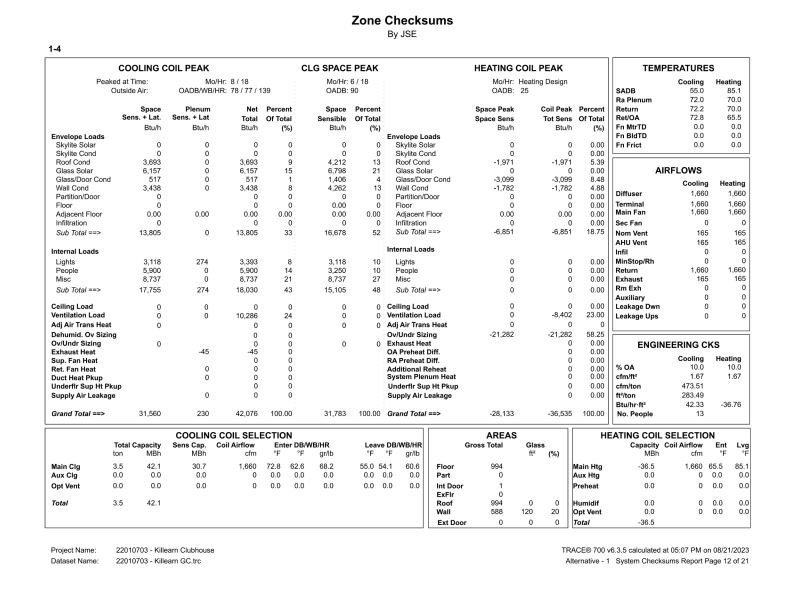


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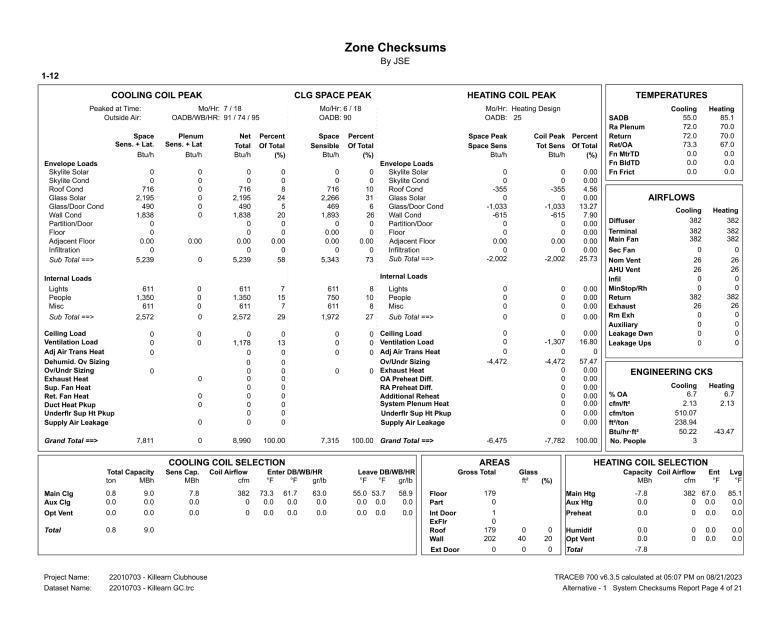
Dataset Name: 22010703 - Killearn GC.trc

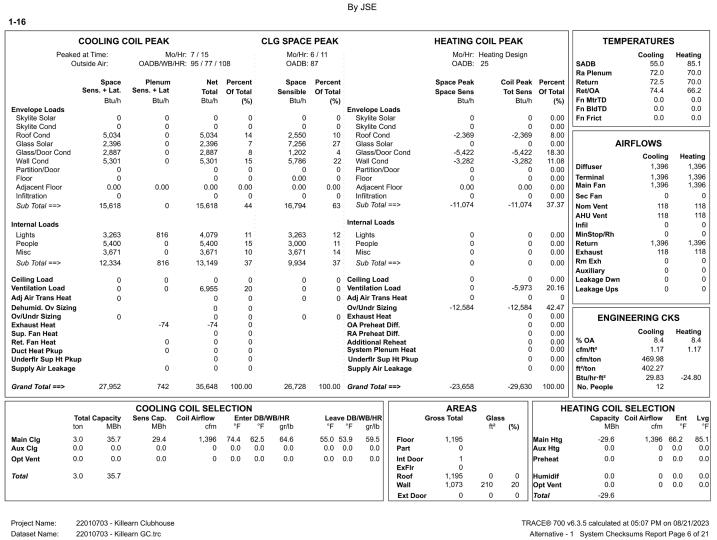
5

HEATING COIL PEAK TEMPERATURES Mo/Hr: Heating Design Cooling 55.0 OADB: 25 SADB Coil Peak Percent Return Tot Sens Of Total Ret/OA Space Peak Space Sens (%) Fn MtrTD Fn BldTD Fn Frict 0.0 AIRFLOWS -6.197 -6.197 Cooling Heating 3,238 3,238 Diffuse Terminal Main Fan 3,238 3,238 Adjacent Floor Infiltration 0.00 Sec Fan -14.686 -14.686 Nom Ven AHU Vent 0.00 MinStop/Rh 3,238 0.00 | Return 0.00 | Exhaust 3,238 431 0.00 Rm Exh 🛛 🛛 Leakage Dwn -21,877 Leakage Ups -40,180 -40,180 52.36 ENGINEERING CKS Cooling Heating 0.00 % OA 0.00 cfm/ft² Additional Reheat System Plenum Heat 404.41 Underflr Sup Ht Pkup 0.00 cfm/ton 355.46 0.00 | ft²/ton 33.76 -26.97 -54,866 -76,743 100.00 No. People AREAS HEATING COIL SELECTION Gross Total Capacity Coil Airflow Ent L -76.7 Main Htg 3,238 64.0 85.1 0 0.0 0.0 Aux Htg Preheat 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 Roof Wall 2,846 988 Humidif Opt Vent 0.0 Ext Door Total 0 0 TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023 Alternative - 1 System Checksums Report Page 3 of 2



-8	COOLING				CLG SPACE				HEATING	COIL PEAK		TEM	PERATURE	s
Peal	ked at Time:		o/Hr: 8 / 12		Mo/Hr:					Heating Design			Cooling	.5 Heatir
	Outside Air:		/HR: 78 / 77 / [/]	39	OADB:				OADB:			SADB	55.0	85
	Space	Plenum	Net	Percent	Space	Percent			Space Peak	Coil Pea	k Percent	Ra Plenum Return	72.0 72.5	70 70
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible				Space Sens		s Of Total	Ret/OA	72.9	66
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)			Btu/h	Btu/	h (%)	Fn MtrTD	0.0	0
nvelope Loads							Envelope Lo					Fn BldTD	0.0	(
Skylite Solar	0	0	0	0	0	0	Skylite Sc		0		0.00	Fn Frict	0.0	(
Skylite Cond	0	0	0	0	0	0	Skylite Co		0		0.00			
Roof Cond	2,947	0	2,947	7	2,594	8	Roof Con		-2,488	-2,48				
Glass Solar	3,342	0	3,342	8	6,888	22	Glass Sol		0		0.00	A	IRFLOWS	
Glass/Door Cond		0	348	1	884	3	Glass/Do		-3,718	-3,71			Cooling	Hea
Wall Cond	4,920	0	4,920	11	5,514	18			-1,765	-1,76		Diffuser	1,633	
Partition/Door	0		0	0	0	0	Partition/[Door	0		0.00	11		
Floor	0		0	0	0.00	0	Floor		0		0.00	Terminal	1,633	
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent		0.00	0.0		Main Fan	1,633	
nfiltration	0		0	0	0	0	Infiltration		0		0.00	Sec Fan	0)
Sub Total ==>	11,557	0	11,557	27	15,879	51	Sub Total	==>	-7,971	-7,97	1 23.62	Nom Vent	120	
												AHU Vent	120	
ternal Loads							Internal Loa	ds				Infil	0	1
Lights	3,427	857	4,283	10	3,427	11	Lights		0		0.00	MinStop/Rh	0	
People	16.720	0	16,720	39	8.686	28	People		0		0.00	Return	1,633	
Misc	3,268	0	3,268	8	3,268	10	Misc		0		0.00	Exhaust	120	
												Rm Exh	120	
Sub Total ==>	23,415	857	24,271	56	15,380	49	Sub Total	==>	0		0.00	Auxiliary	0	
eiling Load	0	0	0	0	0	0	Ceiling Load		0		0.00	Leakage Dwn	0	
entilation Load	0	0			0	0	Ventilation I		0	-6,07			0	
	-	0	7,405	17	•	-			0	,		Leakage Ups	0	
dj Air Trans Heat			0	0	0	0			-					
ehumid. Ov Sizir			0	0			Ov/Undr Siz		-19,698	-19,69				
v/Undr Sizing	0		0	0	0	0	Exhaust Hea				0.00	ENGI	NEERING C	KS
xhaust Heat		-56	-56	0			OA Preheat				0.00		Cooling	Heat
up. Fan Heat			0	0			RA Preheat				0.00	% OA	7.3	Heat
et. Fan Heat		0	0	0			Additional F				0.00			
uct Heat Pkup		0	0	0			System Pler				0.00	cfm/ft ²	1.30	1
nderflr Sup Ht P			0	0			Underflr Su				0.00	cfm/ton	453.81	
upply Air Leakag	je	0	0	0			Supply Air I	.eakage			0.00	ft²/ton	348.79	
rand Total ==>	34,972	801	43.178	100.00	31,259	100.00	Grand Total	==>	-27.669	-33,74	3 100.00	Btu/hr·ft² No. People	34.40 31	-26
	,		G COIL SEL						AREAS					
	Total Capacity ton MBh	Sens Cap. MBh	Coil Airflow cfm	Enter	D B/WB/HR °F gr/lb	Leave °F	e DB/WB/HR °F gr/lb	.	Gross Total	Glass ft² (%)			Coil Airflow cfm	Ent °F
ain Clg	3.6 43.2	28.5	1,633	72.9 62	2.3 66.4	55.0 5	3.4 57.6	Floor	1,255		Main Htg	-33.7	1.633	66.7
ux Clg	0.0 0.0	0.0	0		0.0 0.0		0.0 0.0	Part	0		Aux Htg	0.0	0	0.0
pt Vent	0.0 0.0	0.0	0		0.0 0.0		0.0 0.0	Int Door	1		Preheat	0.0	0	0.0
or vent	0.0	0.0	0	0.0 1	0.0 0.0	0.0	0.0	ExFir	Ó		reneat	0.0	0	0.0
otal	3.6 43.2							Roof	1,255	0 0	Humidif	0.0	0	0.0
nai	3.0 43.Z							Wall	608	144 24		0.0	0	0.0
											Opt Vent		0	0.0
								Ext Door	r 0	0 0	Total	-33.7		





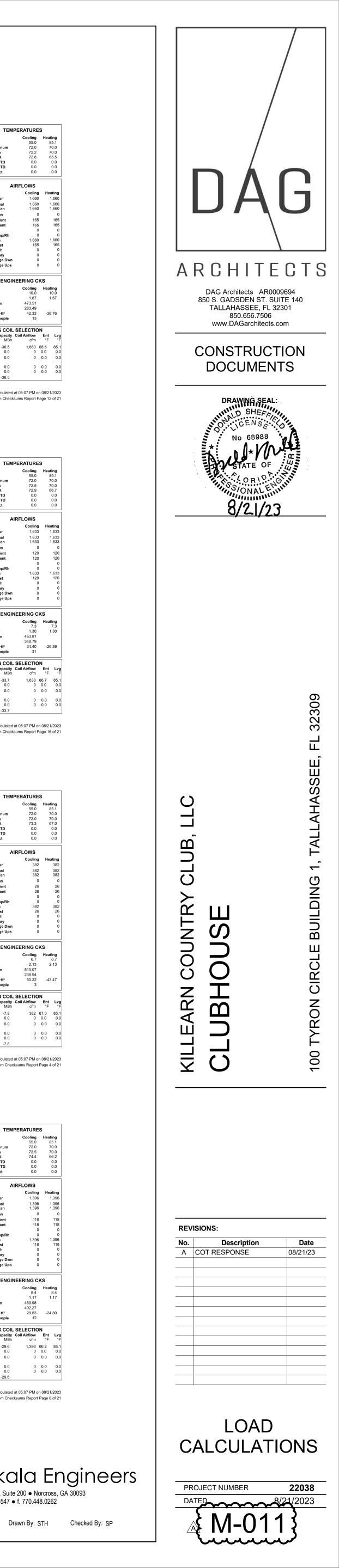
Zone Checksums

Alternative - 1 System Checksums Report Page 6 of 21

Alternative - 1 System Checksums Report Page 16 of 21

Jordan & Skala Engineers 4275 Shackleford Road, Suite 200 • Norcross, GA 30093 p. 770.447.5547 • f. 770.448.0262

Project Number: 22010703



& Req.ID	n Complies? Comments/Assumptions	# & Req.ID	Mechanical Rough-In Inspection	Complies? Comments/Assumptions
Thermally ineffective panel surfaces Sensible heating panels have insulation $>=$ R-3.5.	of Complies Exception: Requirement does not apply. Does Not Not Observable Not Applicable	C403.2.4. 8	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature	Complies Exception: Requirement does not apply. Does Not Not Observable Not Applicable Not Applicable
C403.2.10 HVAC piping insulation insulated in accordance with Table C403.2.10. Insulation exposed to weather is protected from damage and is provided with shielding from solar	Complies Requirement will be met. Does Not Inot Observable Not Applicable Inot Applicable		setpoint and ventilation (see sections C403.2.4.8.1 and C403.2.4.8.2). Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	Complies Exception: Where the largest exhaust source is less that of the design outdoor airflow.
radiation. C403.2.12 HVAC fan systems at design .1 conditions do not exceed allowable [ME65] ³ fan system motor nameplate hp or f system bhp.			Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum	
C403.2.12 Fans have energy index (FEI) >= 1. .3 in accordance with AMCA 208. Fans [ME117] ² for VAV systems shall have an FEI > 0.95.	= Does Not Not Observable	1,	exhaust rate criteria. HVAC ducts and plenums insulated in accordance with C403.2.9.1 and	Not Applicable
C403.2.12 Motors for fans that are not less tha .4 1/12 hp and less than 1 hp are [ME142] ² electronically commutated motors of have a minimum motor efficiency of	Does Not	2 [ME60] ² C403.3,	constructed in accordance with C403.2.9.2, verification may need to occur during Foundation Inspection.	Not Observable Not Applicable Complies Requirement will be met.
70 percent. These motors have the means to adjust motor speed.C403.2.12Each DX cooling system > 65 kBtu and chiller water/evaporative coolin[ME143]2System with fans > 1/4 hp are designed to vary the indoor fan airfl	Complies Requirement will be met.		required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-of integrated economizer control, and provide a means to relieve excess outside air during operation.	□Does Not f, □Not Observable □Not Applicable
C403.2.3 HVAC equipment efficiency verified.	□ Complies See the Mechanical Systems list for values. □ Does Not	3	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table	Does Not Not Observable Not Applicable
C403.2.4. Fault detection and diagnostics installed with air-cooled unitary DX	Not Observable Not Applicable Complies Requirement will be met. Does Not	4	C403.3.3.3 for applicable device types and climate zones. System capable of relieving excess outdoor air during air economizer	□Complies Requirement will be met. □Does Not
[ME113]2units having economizers.C403.2.6Natural or mechanical ventilation is provided in accordance with Florida	Not Observable Not Applicable Complies Requirement will be met. Does Not		located to avoid recirculation into the building. Return, exhaust/relief and outdoor air	□Not Observable □Not Applicable □Complies Requirement will be met.
Building Code Chapter 4. Mechanica ventilation has capability to reduce outdoor air supply to minimum per Florida Building Code Chapter 4. C403.2.6. Demand control ventilation provided	□Not Observable □Not Applicable —	5 [ME126] ¹		
1 for spaces >500 ft2 and >25 [ME59] ¹ people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outsid air damper control, or design airflow	Does Not cfm. Not Observable Not Applicable	C403.4.2. 1	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	□Complies Requirement will be met. □Does Not □Not Observable □Not Applicable
 >3,000 cfm. C403.2.6. Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity 	n 🗆 Does Not	C403.4.2. 4 [ME68] ³	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for fu details.	□Complies Requirement will be met. □Does Not □Not Observable □Not Applicable
Pata filename:	Report date: 06/29/23 Page 9 of 14	Data filena		Report date: 06/29/ Page 10 of
Section # Final Inspection & Req.ID	Page 9 of 14 Complies? Comments/Assumptions	Data filena Section # & Req.ID	Final Inspection	Page 10 of Complies? Comments/Assumptions
Section Final Inspection & Req.ID C403.2.1	Page 9 of 14 Complies? Comments/Assumptions n Complies Does Not Requirement will be met. Not Observable Not Applicable	Data filena Section # & Req.ID C408.2.1 [Fl28] ¹	Final Inspection Commissioning plan developed by registered design professional or approved agency.	Complies? Comments/Assumptions Complies Requirement will be met. Does Not Not Observable Not Applicable Image: Complication of the section of t
Section Final Inspection & Req.ID Final Inspection C403.2.1 HVAC systems and equipment designed to be a calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure C403.2.2 HVAC systems and equipment designed to be a calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure C403.2.2 HVAC systems and equipment capacity does not exceed calculated loads.	Page 9 of 14 Complies? Comments/Assumptions n Complies Does Not Requirement will be met. Not Observable Not Applicable Complies Requirement will be met. Does Not Requirement will be met. Not Observable Requirement will be met. Not Observable Requirement will be met. Not Observable Requirement will be met.	Data filena Section # & Req.ID C408.2.1 [Fl28] ¹ C408.2.3. 1 [Fl31] ¹	Final Inspection Commissioning plan developed by registered design professional or approved agency. HVAC equipment has been tested to ensure proper operation.	Page 10 of Complies? Comments/Assumptions Complies Requirement will be met. Does Not Not Observable Not Applicable Requirement will be met. Not Observable Not Observable Not Observable Requirement will be met. Not Applicable Image: Complies in the section of the
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2038 NTS

Complies?	Comments/Assumptions	Section # & Req.ID		Complies?	Comments/Assumptions
Complies Does Not Not Observable Not Applicable		C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
		C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification	□Complies □Does Not □Not Observable	Requirement will be met.
Complies			under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	□Not Applicable	
Complies Does Not Not Observabl		C405.8.2, C405.8.2. 1 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
□Complies □Does Not □Not Observabl □Not Applicable			permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.		
□Complies □Does Not □Not Observabl	Requirement will be met.	C405.5.3 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits $\leq 5\%$.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
□Not Applicable □Complies	Exception: Requirement does not apply.	Addition	al Comments/Assumptions:		·
□Does Not □Not Observabl	2				
□Not Observable					
□Not Applicable					
□Not Applicable			1 High Impact (Tier 1)	2 Medium Imp	act (Tier 2) <u>3</u> Low Impact (Tier 3)



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PROJECT NUMBER DATED

22038 8/21/2023

No.	Description	Date

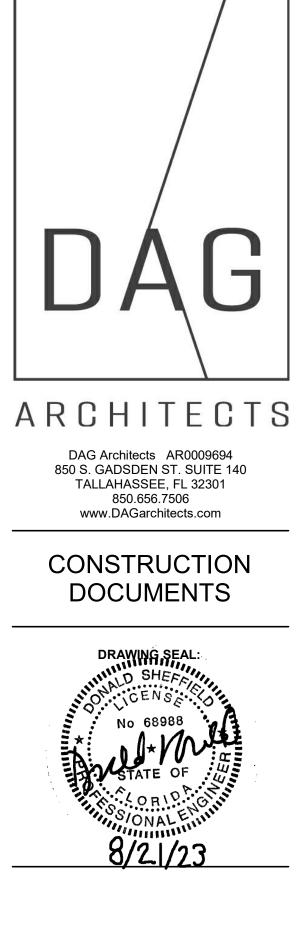
COMPLIANCE -HVAC

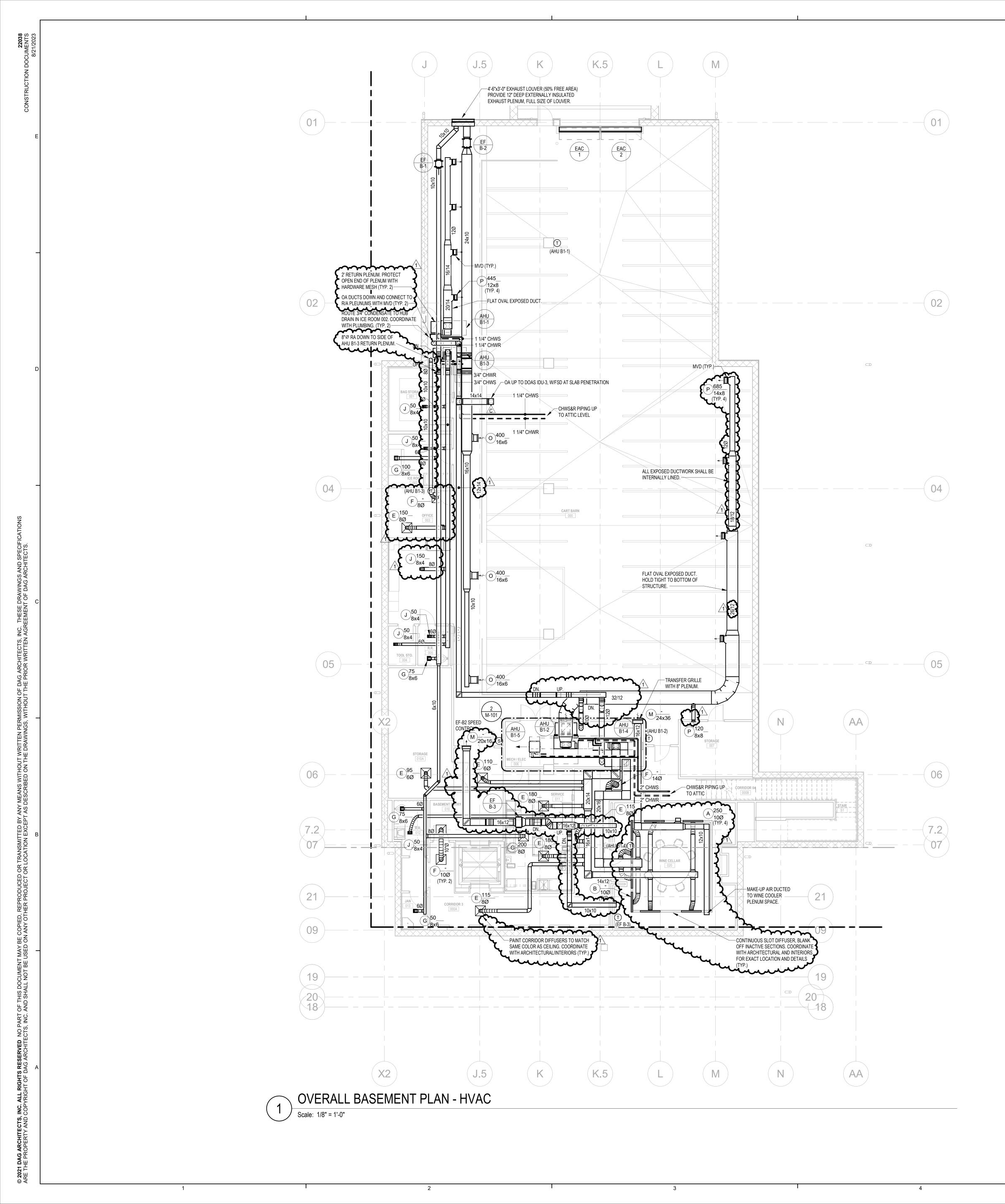
M-009

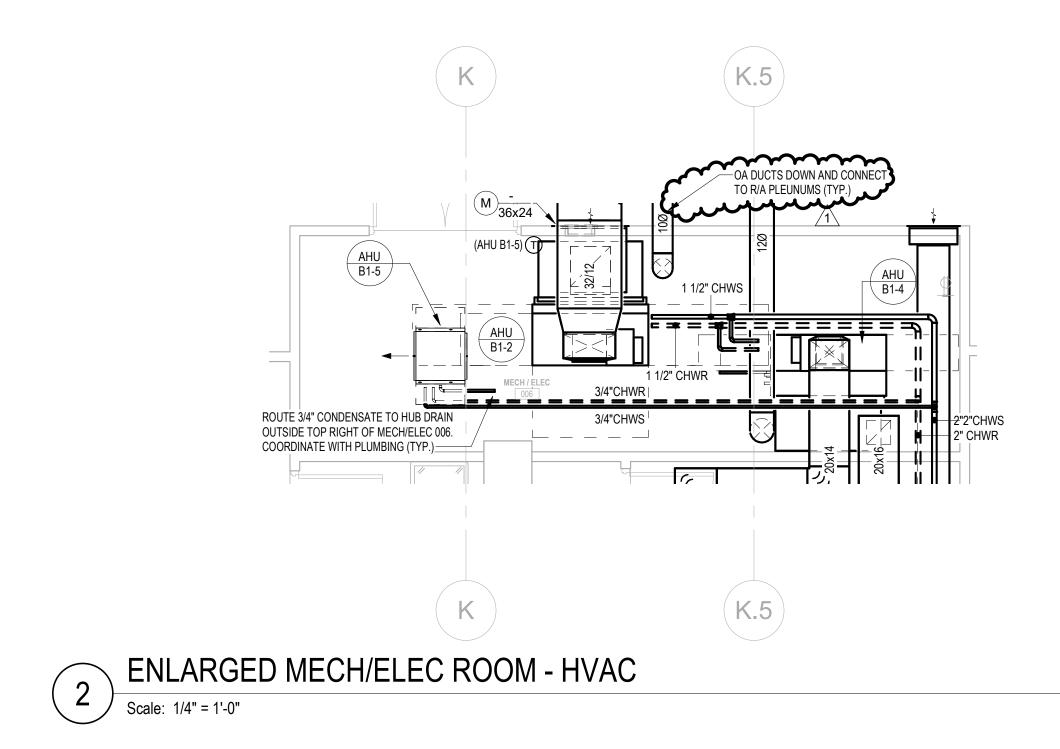








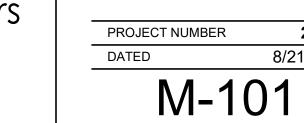






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BASEMENT FLOOR PLAN - HVAC

22038

8/21/2023

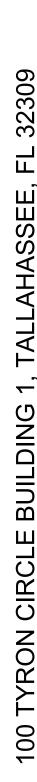
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No.	Description	Date
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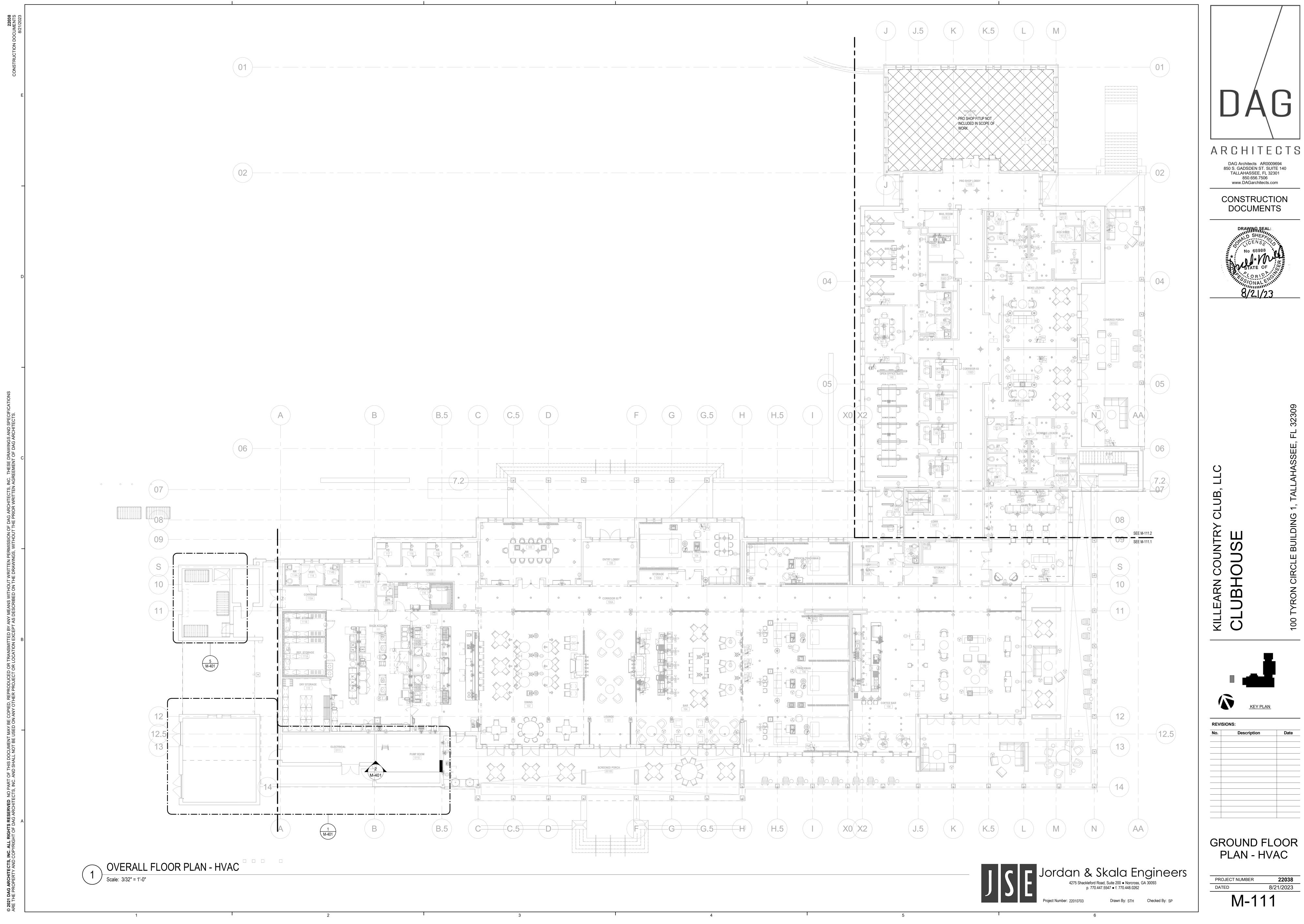


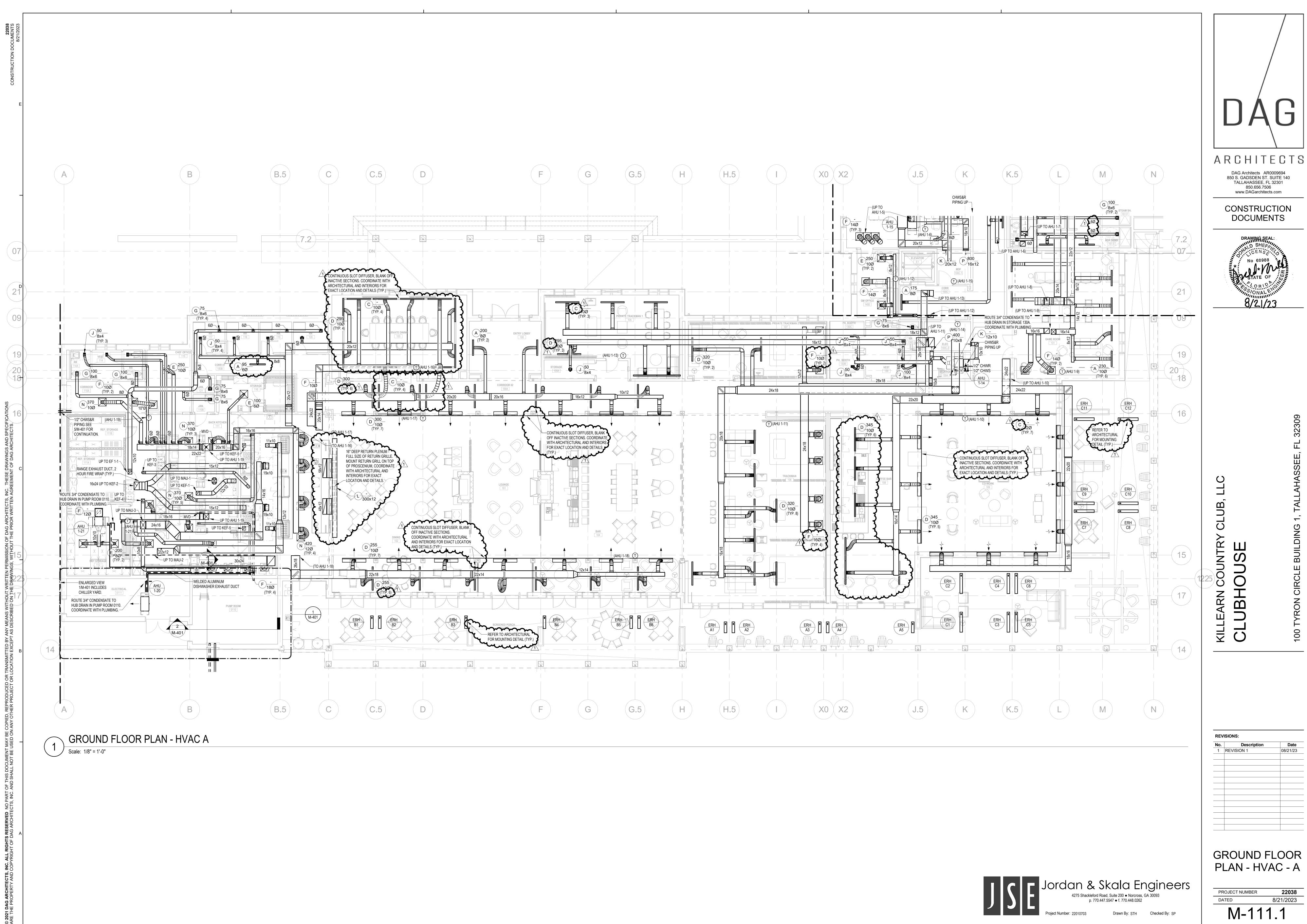




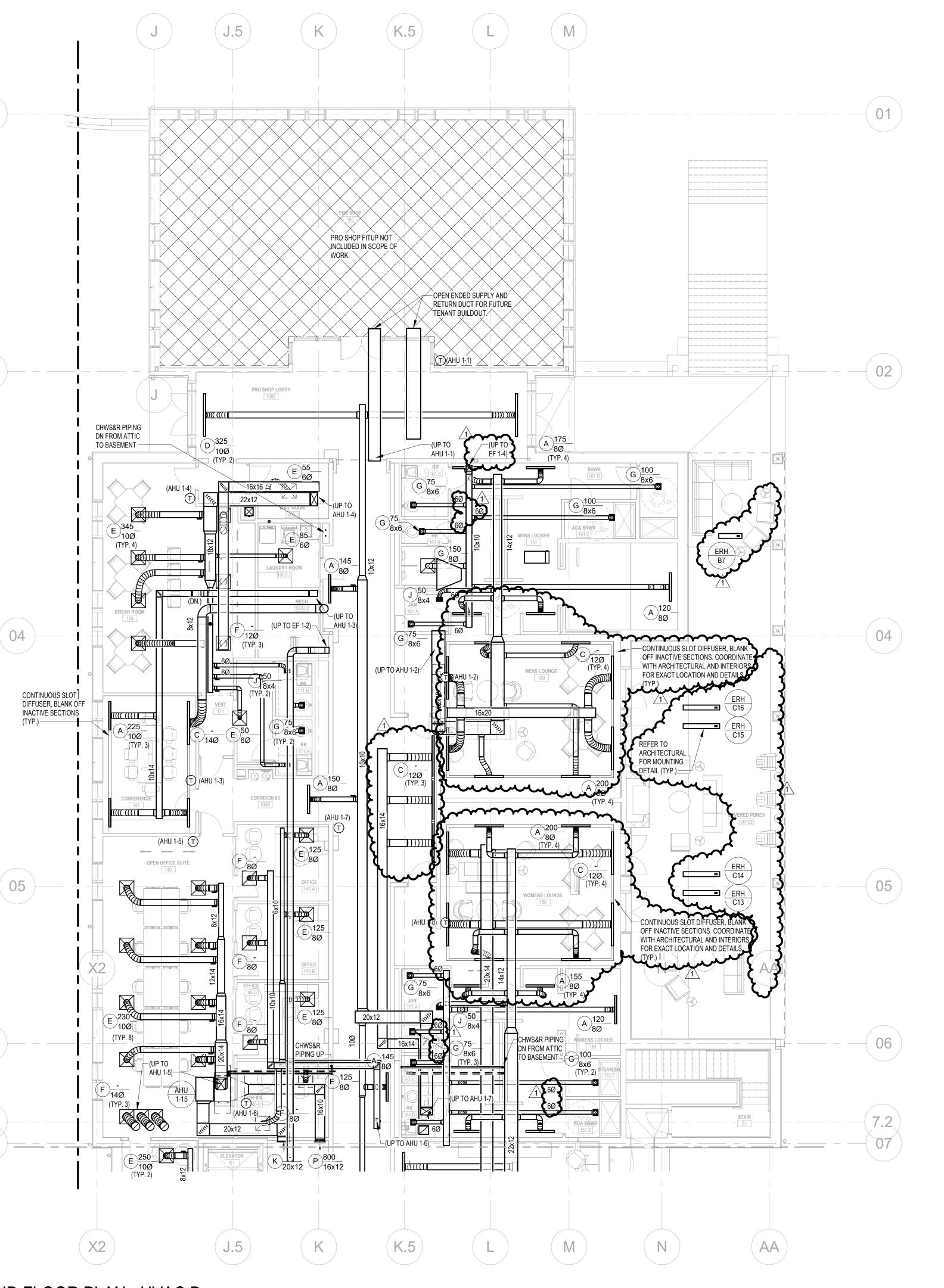








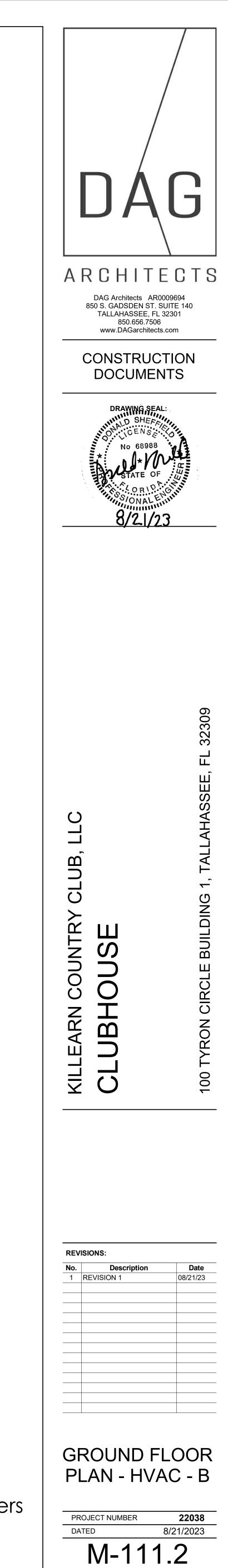
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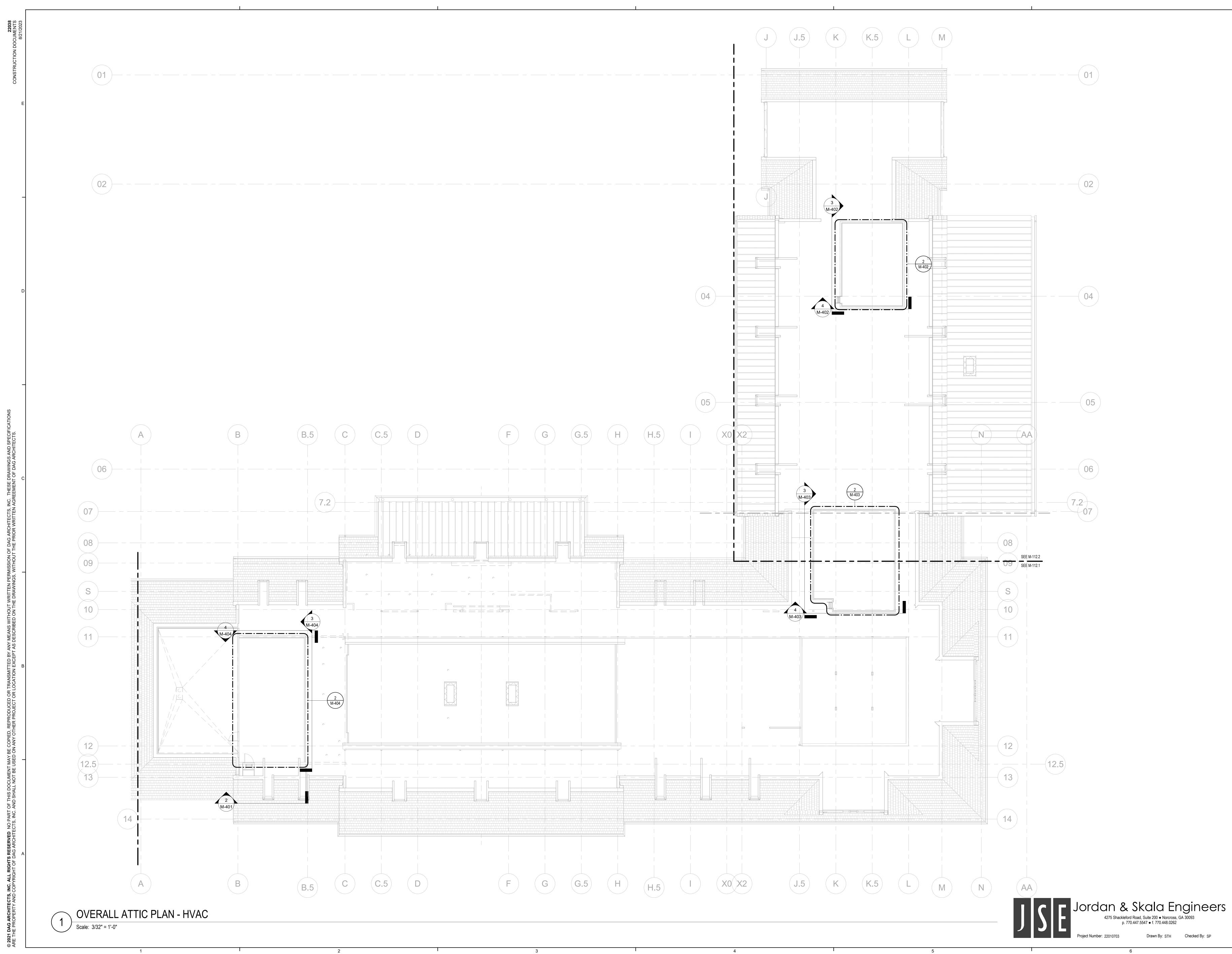


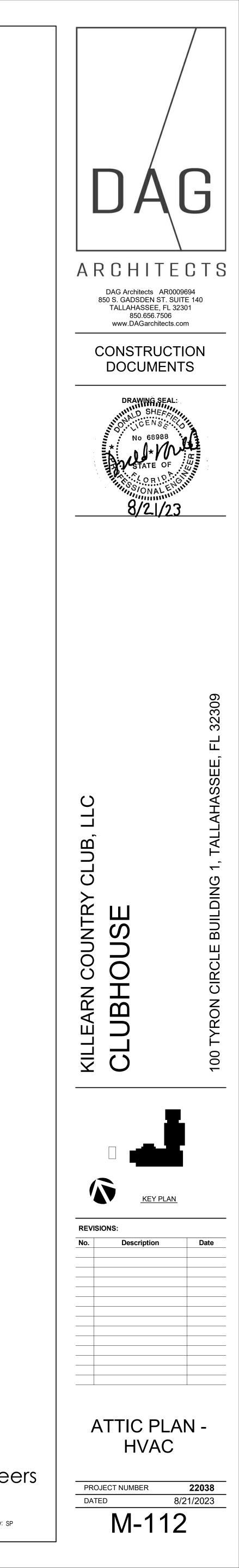
ID FLOOR PLAN - HVAC B

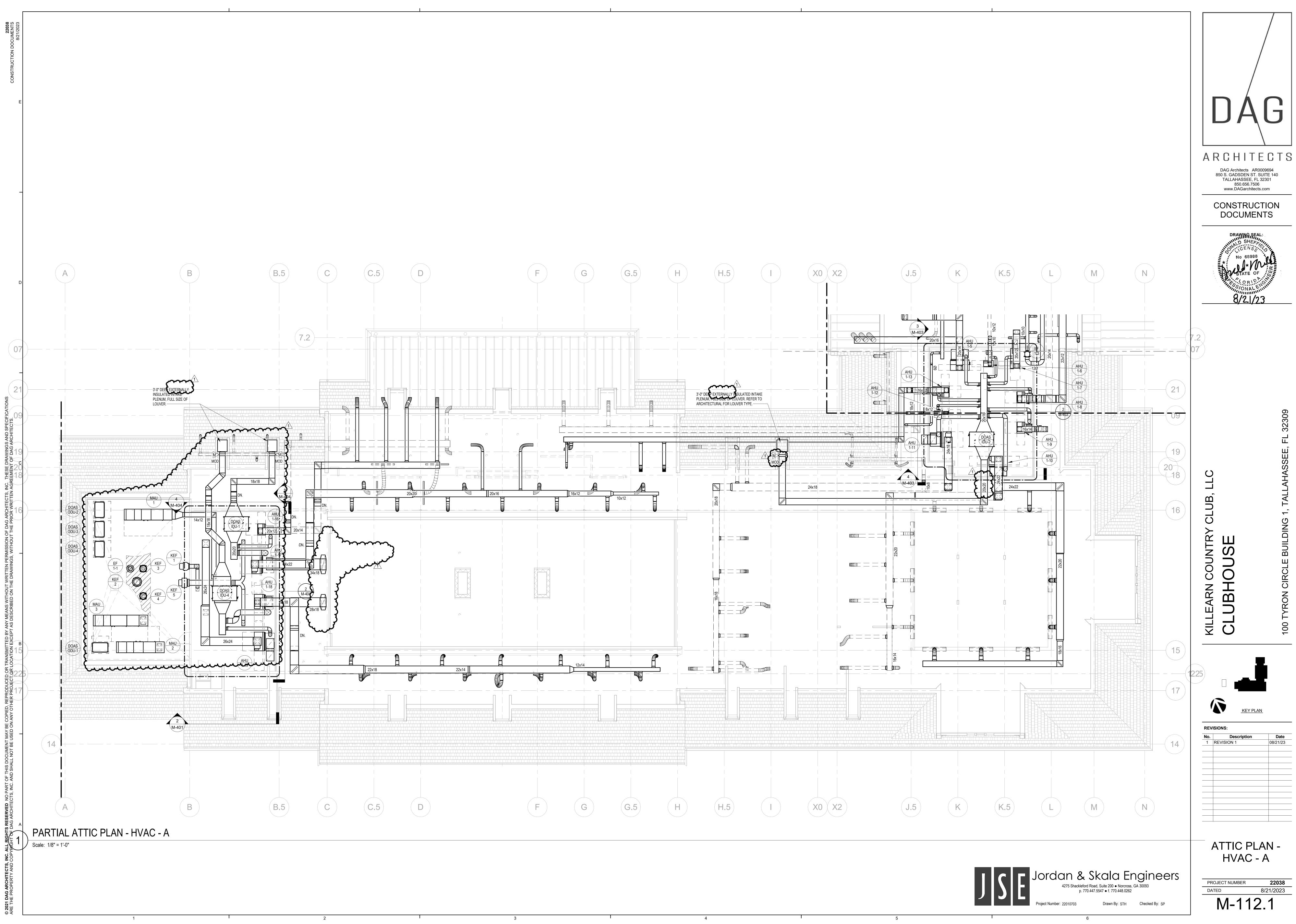


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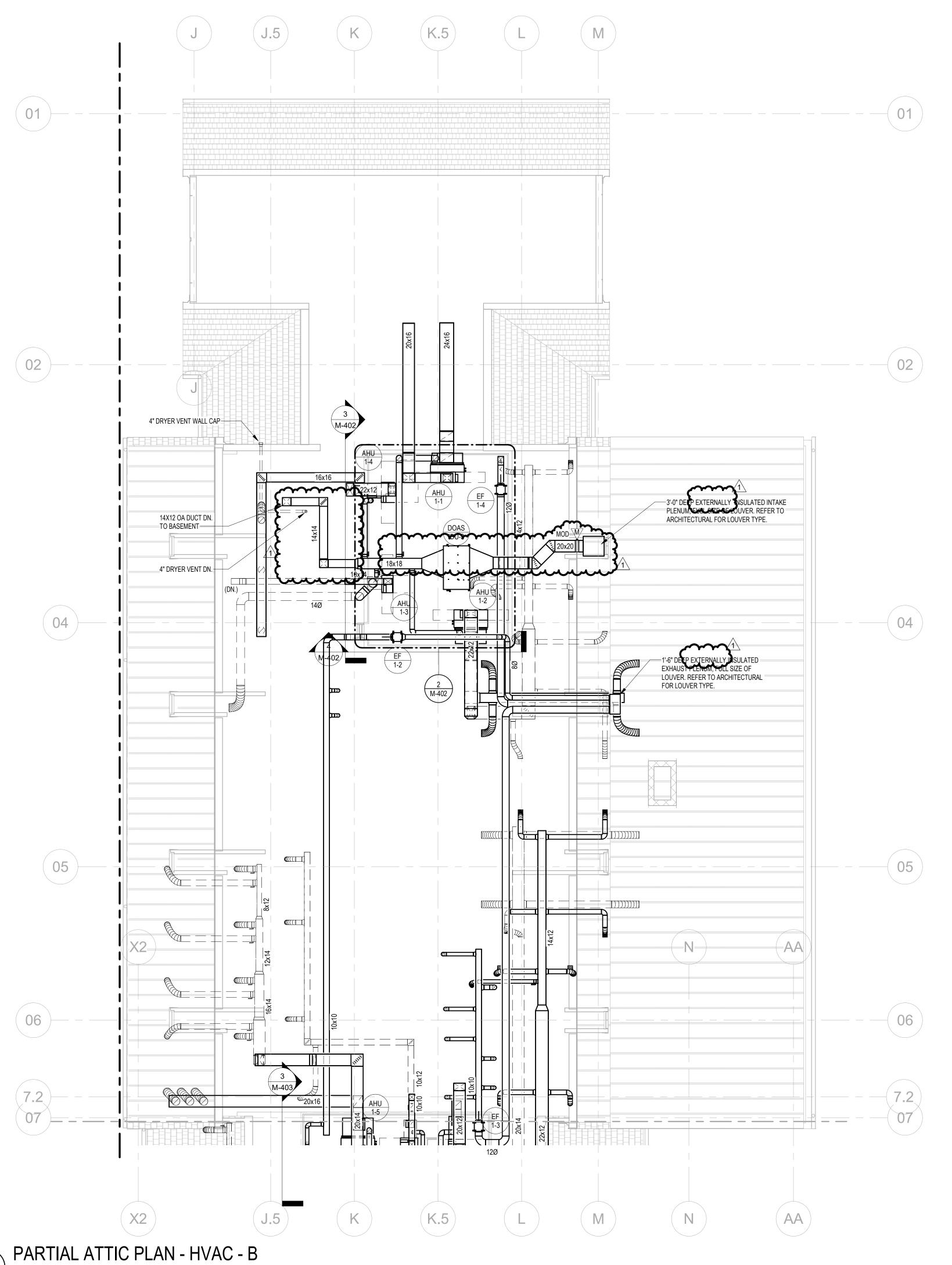






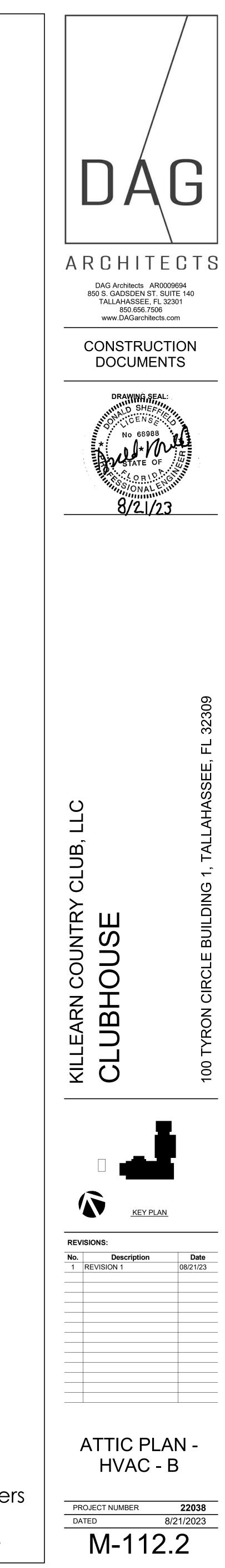


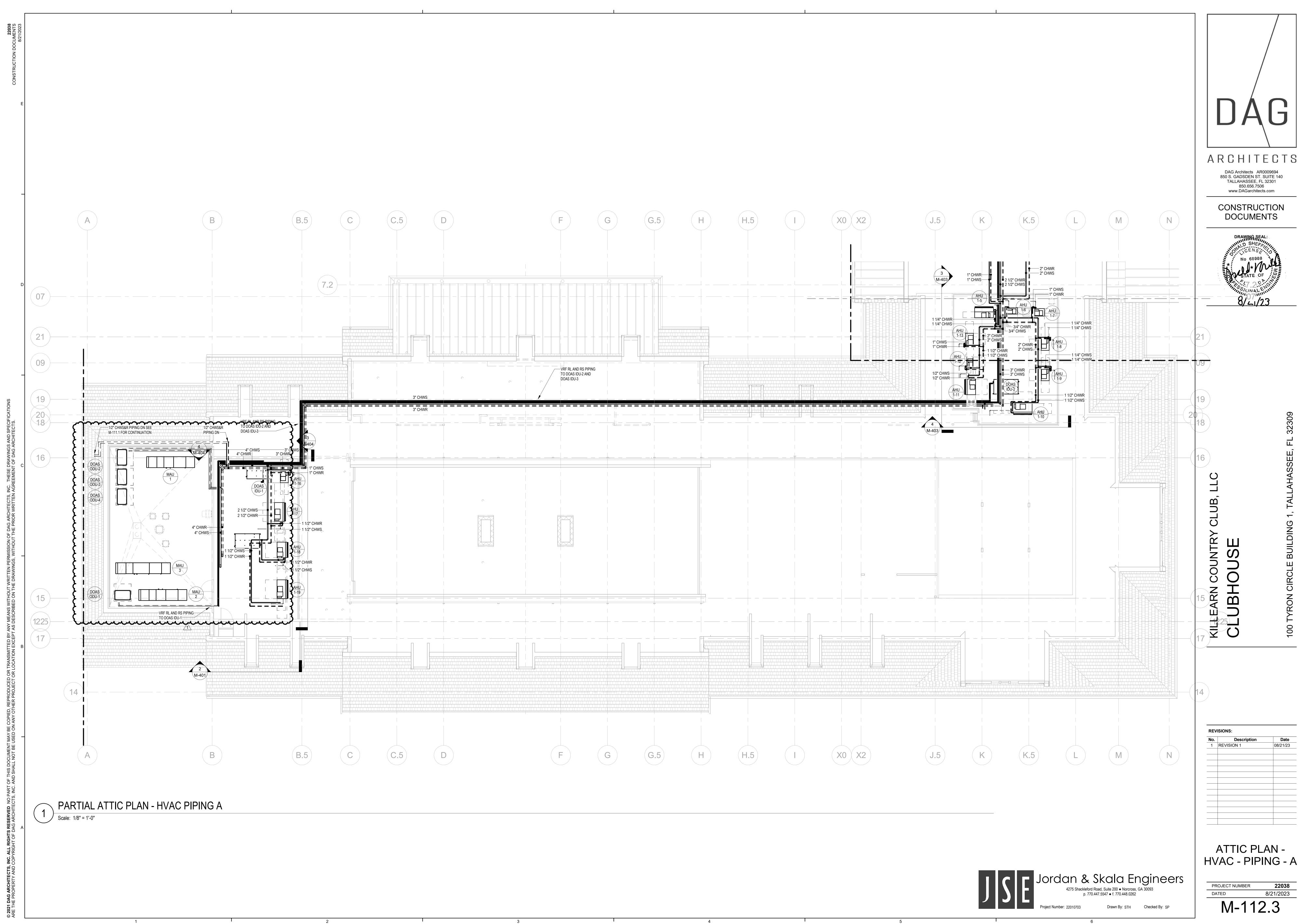
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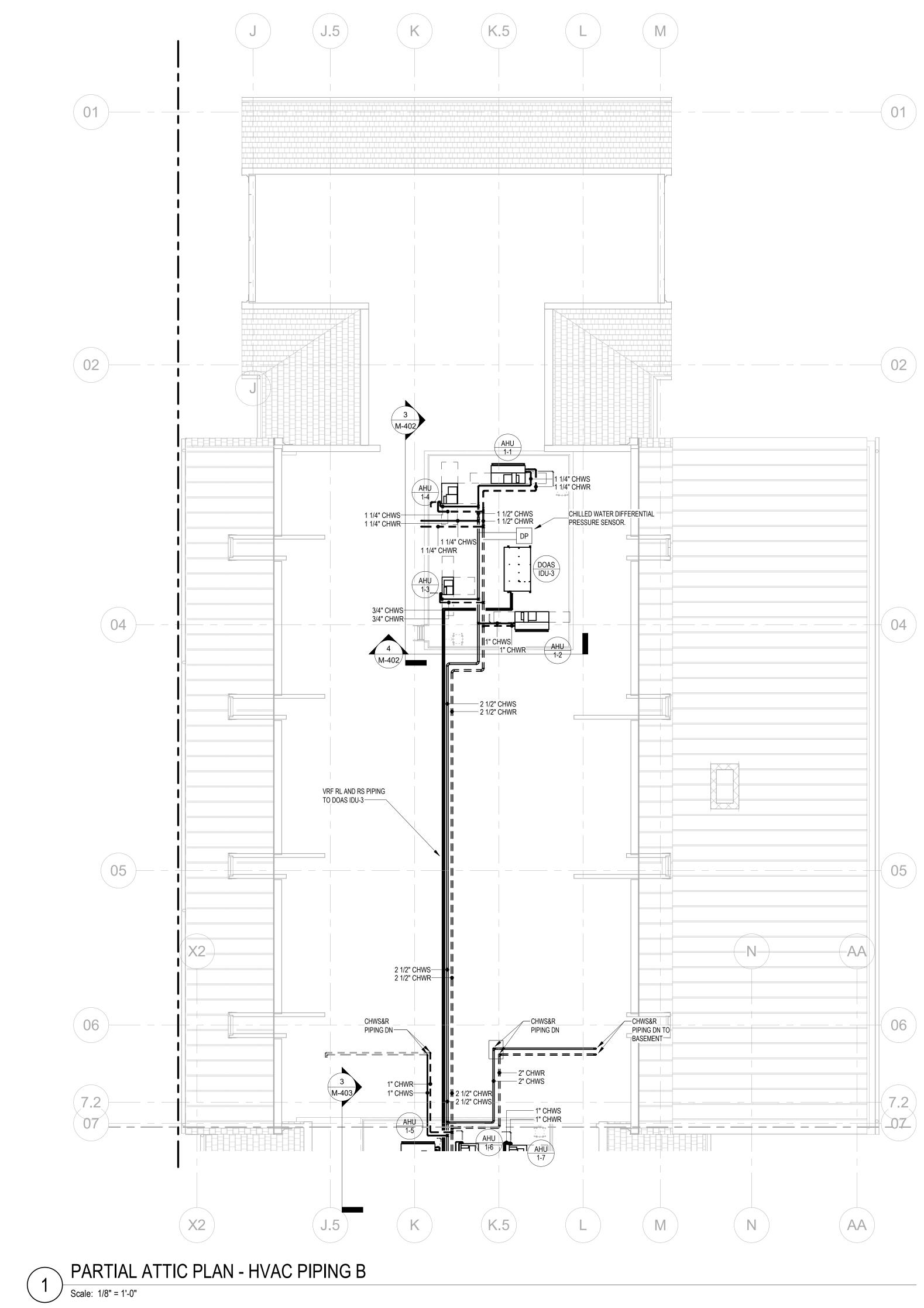
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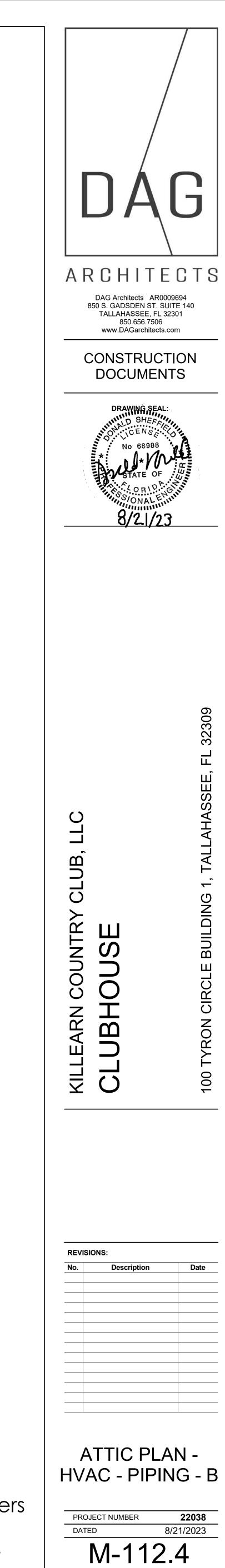


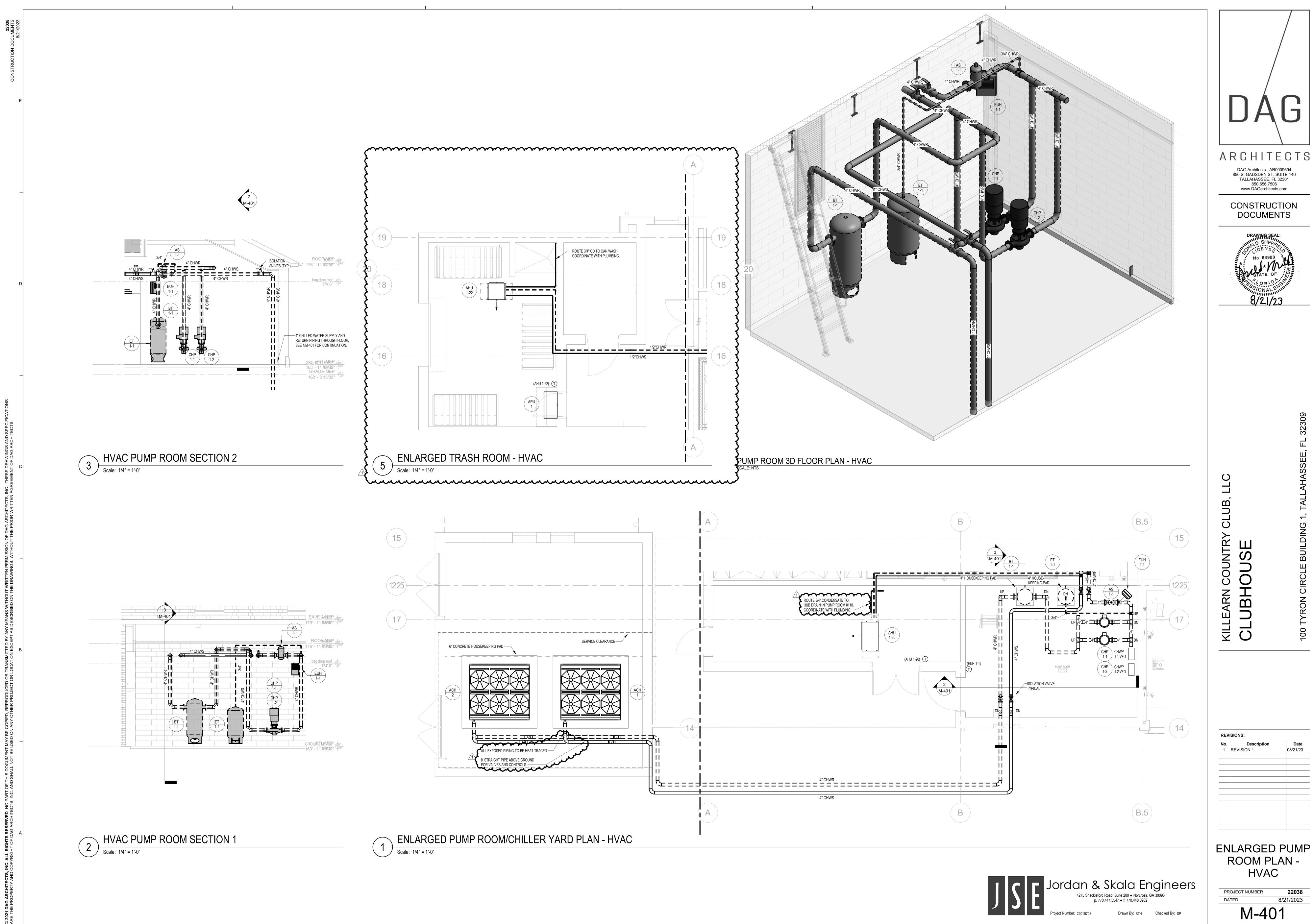


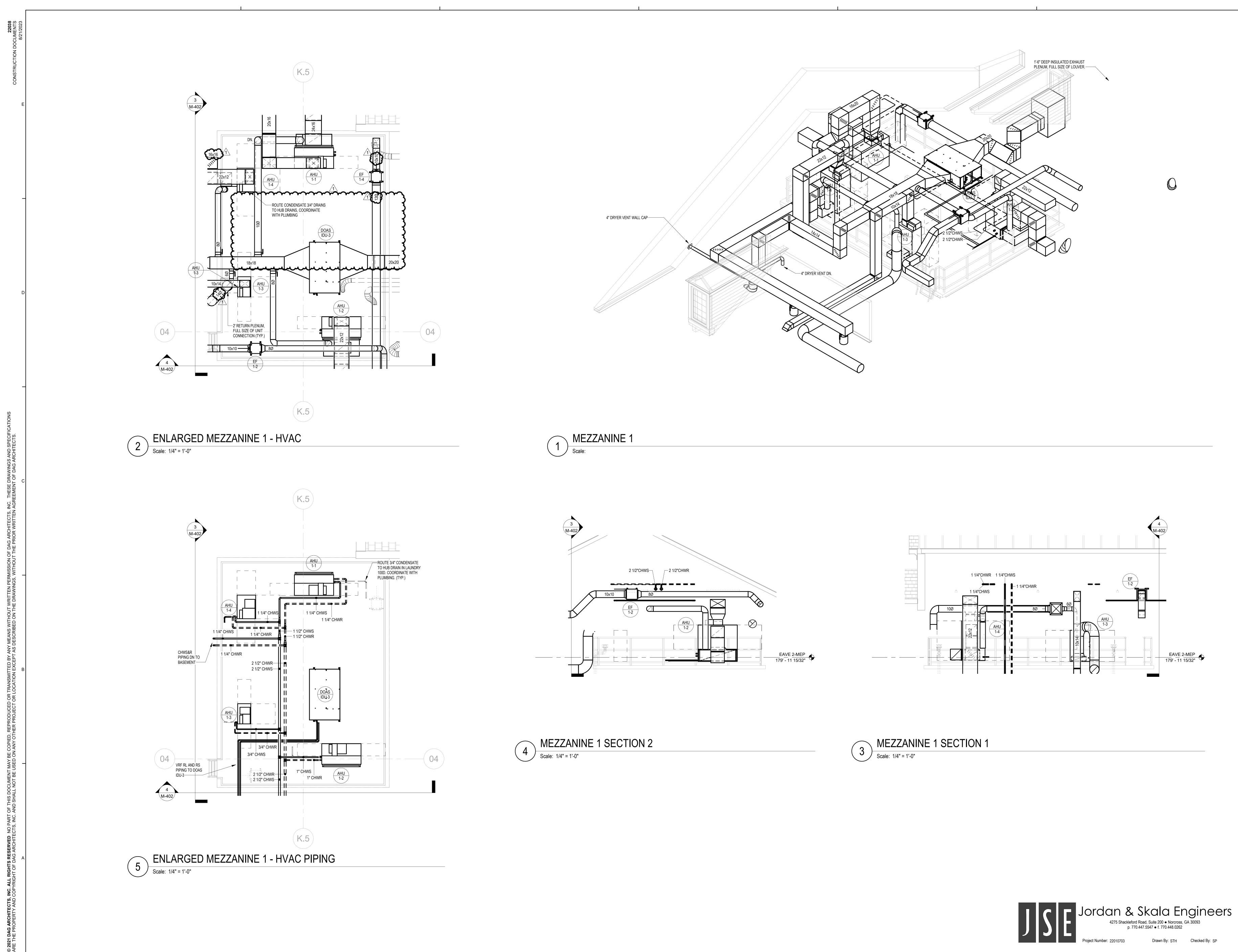
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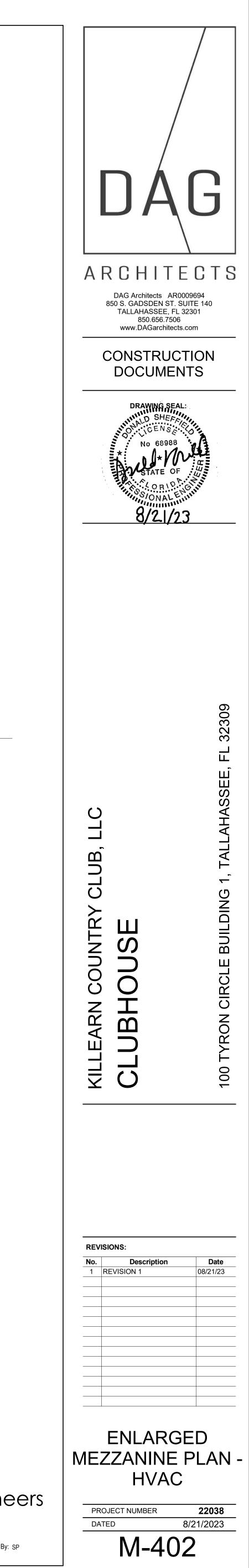


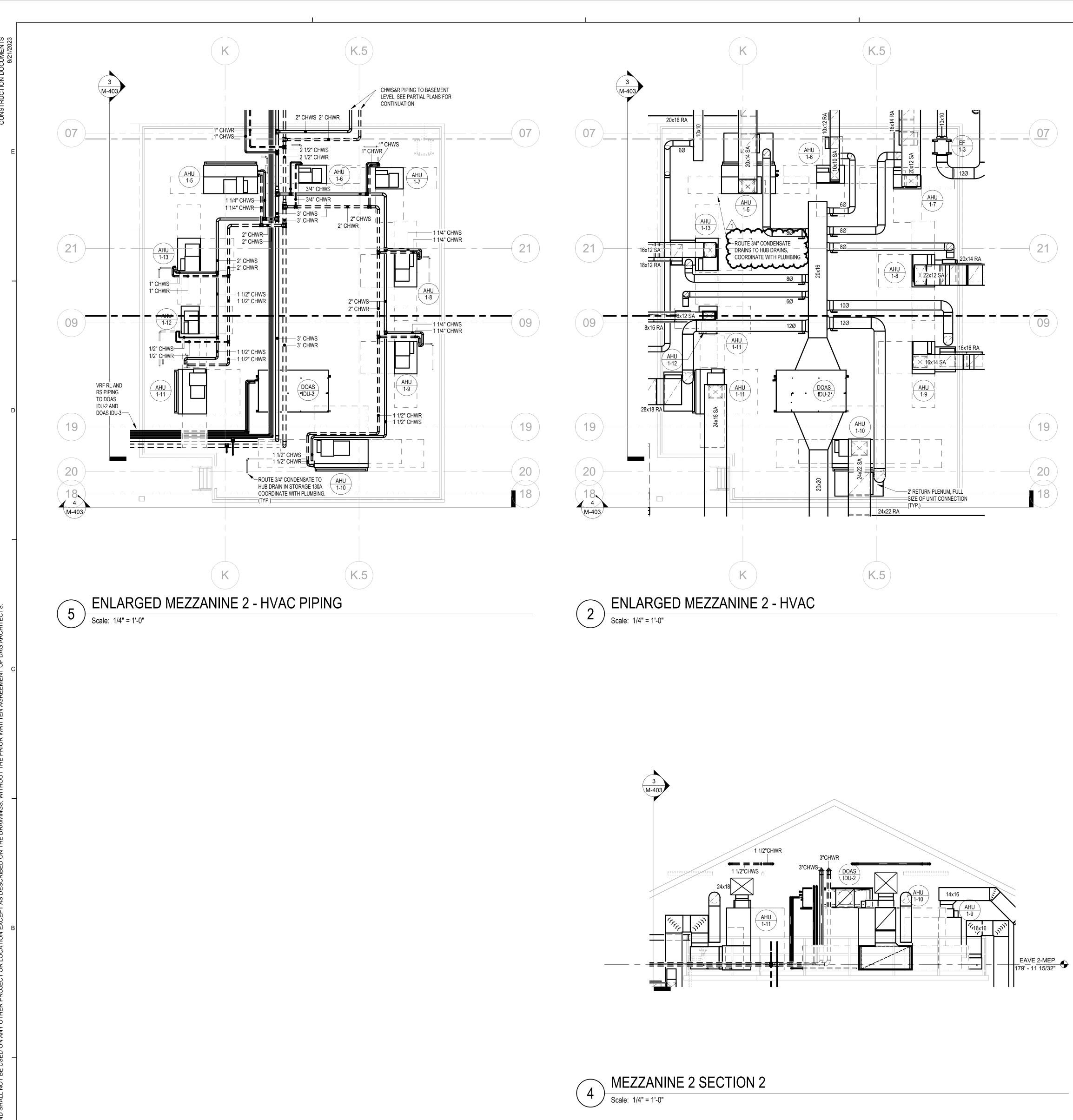






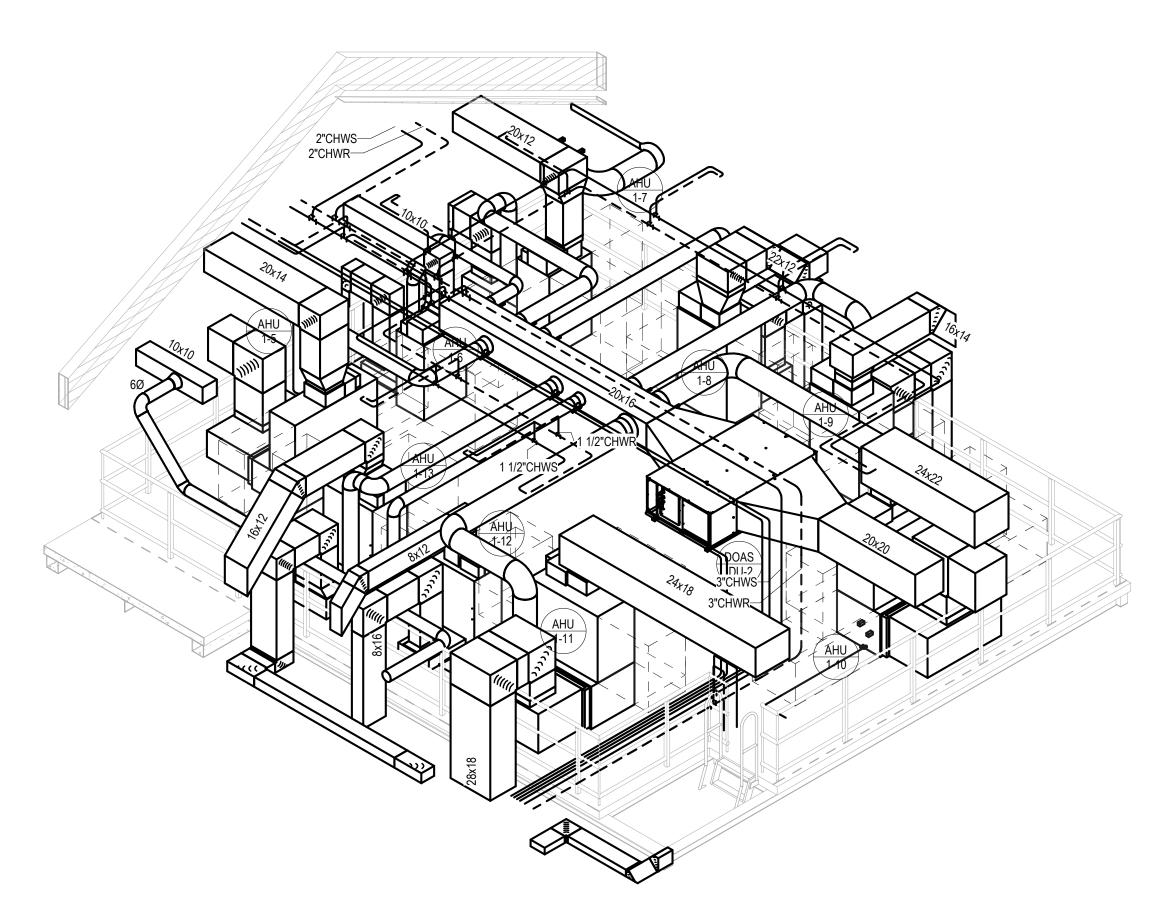




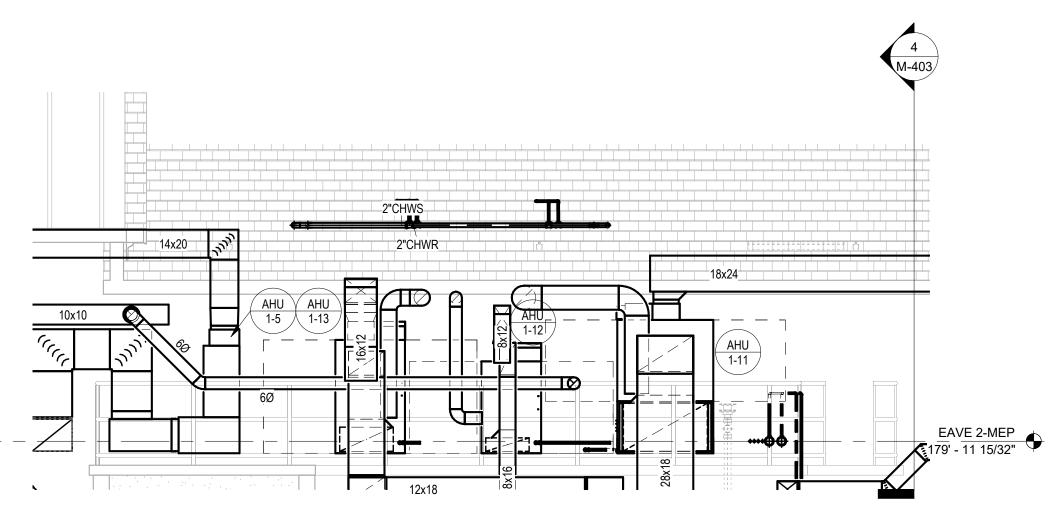


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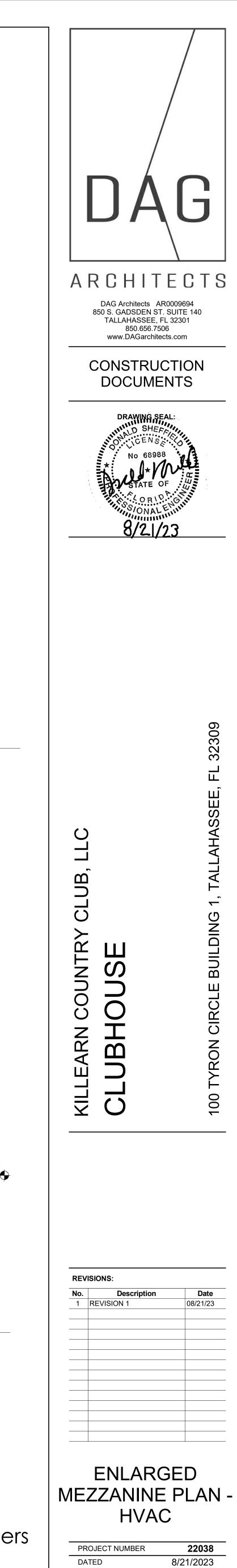


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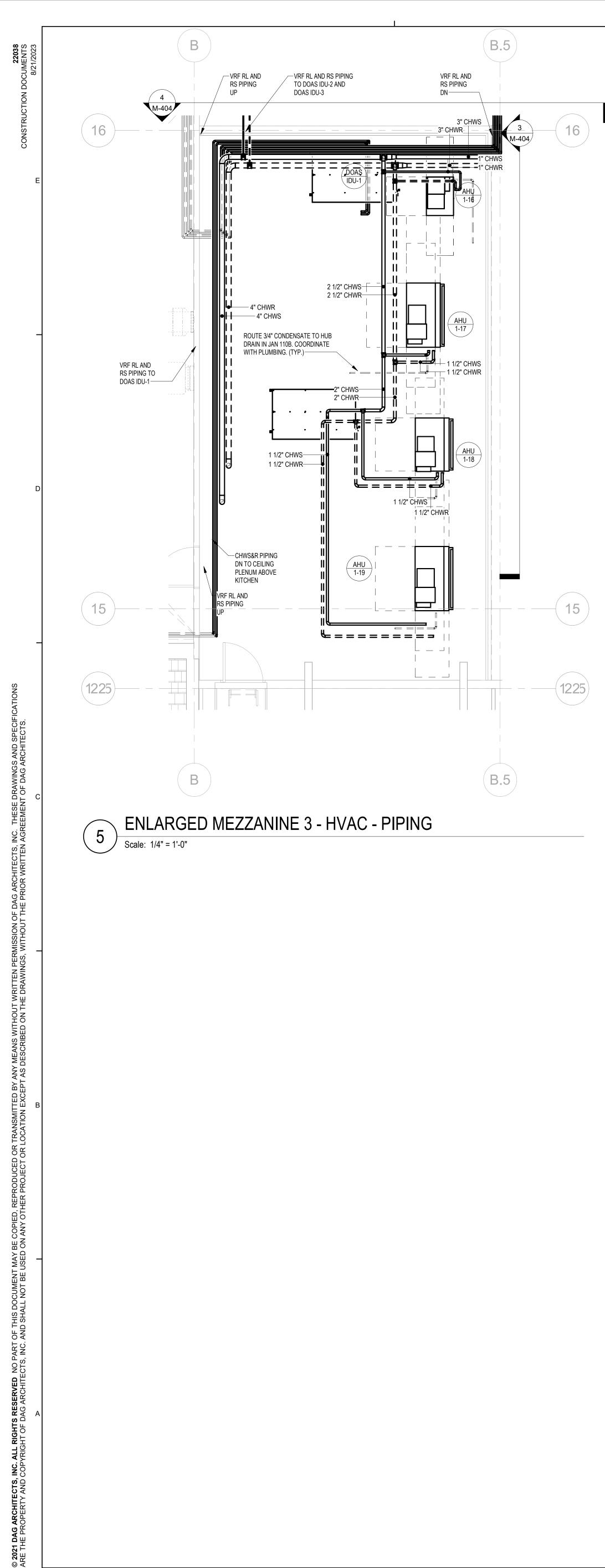
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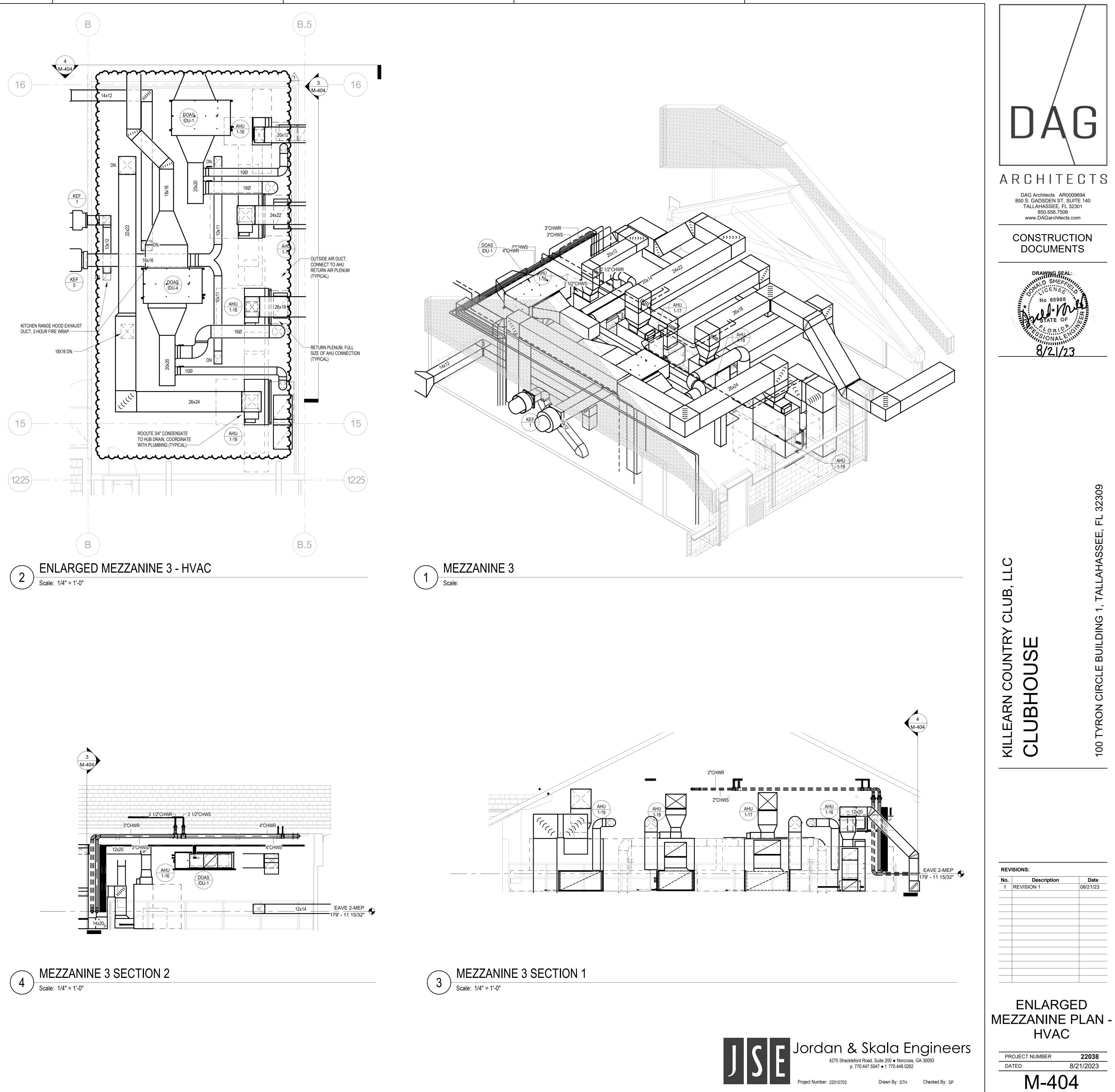


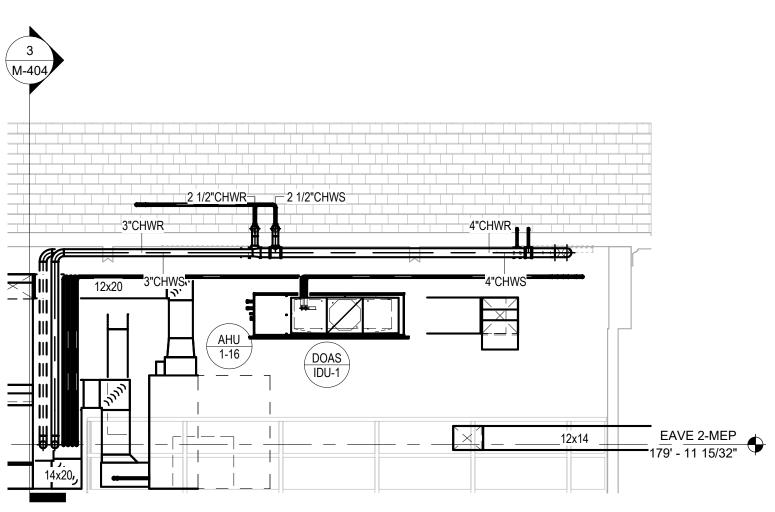
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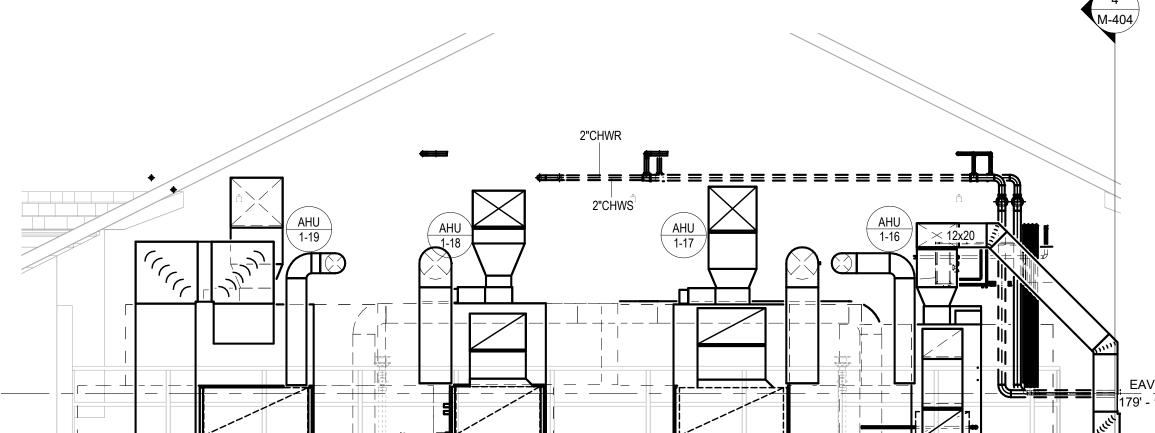


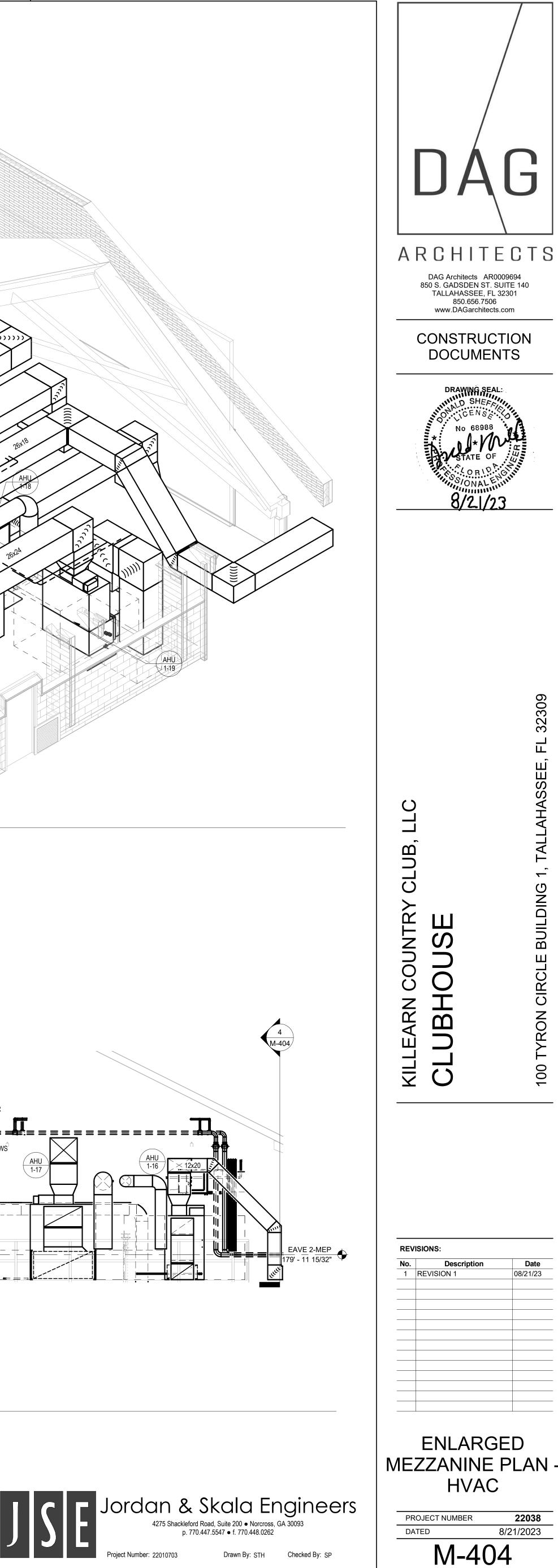
M-403











1-17 COOLING COIL PEAK CLG SPACE PEAK HEATING COIL PEAK TEMPERATURES Cooling Heating 55.0 85.1 Peaked at Time: Mo/Hr: 7 / 1 Mo/Hr: 11 / 16 Mo/Hr: Heating Design
 Heating Lesign
 SADB

 25
 SADB

 Coil Peak
 Percent

 Tot Sens
 Of Total

 Btw/h
 (%)

 0
 0.000

 Fn Frict
 OADB: 25 Outside Air: OADB/WB/HR: 95 / 77 / 108 OADB: 78 Space Peak Space Sens Btu/h SpacePercentSensibleOf TotalBtu/h(%) 72.4 75.4 Space Plenum Sens. + Lat. Sens. + Lat Total Of Total Btu/h Btu/h Btu/h Envelope Loads Skylite Solar Skylite Cond Roof Cond Glass Solar Glass/Door Cond Wall Cond Partition/Door Floor Adjacent Floor Infiltration Sub Total ==> Envelope Loads Skylite Solar Skylite Cond Roof Cond Glass Solar Glass/Door Cond Wall Cond Partition/Door Floor Adjacent Floor Infiitration Sub Total ==> 0 6,163 28,937 2,350 4,384 0 10,758 13,237 6,992 3,743 -5,288 0 -15,173 -1,424 10,758 13,237 -5,288 200 5.17 0 0.00 14.83 1.39 00 Diffuser AIRFLOWS 0 -15,173 -1,424 Cooling Heating 4,313 4,313 0.00 0.00 0 0 Terminal 0 Main Fan 4,313 4,313 4,313 4,313 0.00 0.00 0.00 0 0.00 0.00 0.00 Sec Fan 34,729 0 34,729 41,834 -21,885 -21,885 Nom Vent 575 AHU Vent 575 Internal Loads Internal Loads 0 0.00 MinStop/Rh 0 0.00 Return 0.00 Exhaust 0.00 Rm Exh Auxiliary 0.00 Leakage Dwn 28.65 Lights ع People اع Misc Lights People Misc 9,102 37,350 12,698 59,151 7,282 20,750 12,698 40,730 7,282 37,350 12,698 1,820 4,313 575 4,313 575 Sub Total ==> 57,330 1,820 49 Sub Total ==> Ceiling Load Ventilation Load Adj Air Trans Heat Dehumid. Ov Sizing Ov/Undr Sizing Exhaust Heat Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup Underfir Sup Ht Pkup 0 Ceiling Load 0 Ventilation Load -29,204 28.55 Leakage Ups 25,859) Adj Air Trans Heat Ov/Undr Sizing 0 Exhaust Heat OA Preheat Diff. -51,196 50.05 -51,196 0 0 ENGINEERING CKS -238 RA Preheat Diff. 0.00 0.00 % OA 0.00 cfm/ft² Additional Reheat System Plenum Heat 0 0.00 cfm/ton 0 0.00 ft²/ton Btu/hr·ft² -102,284 100.00 No. People Underfir Sup Ht Pkup Supply Air Leakage Supply Air Leakage Grand Total ==> 92,059 1,582 119,501 100.00 82,564 100.00 Grand Total ==> -73,081 AREAS COOLING COIL SELECTIO HEATING COIL SELECTION Leave DB/WB/HR °F °F gr/lb Capacity Coil Airflow Ent MBh cfm °F Sens Cap. Coil Airflow Enter DB/WB/HR MBh cfm °F °F gr/lb Gross Total Glass ft² (%) ton MBh 55.0 53.6 58.5 Floor 0.0 0.0 0.0 Part 2,667 Main Htg Aux Htg Preheat -102.3 0.0 Main Clg Aux Clg Opt Vent 10.0 119.5 0.0 0.0 89.4 0.0 4,313 75.4 62.9 65.1 0 0.0 0.0 0.0 4,313 64.0 85 0 0.0 0 Int Door ExFlr Roof Wall 0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0 0.0 0. 0 0.0 0. 0 Humidif 59 Opt Vent Total 10.0 119.5 0.0 0.0 2,667 0 910 536 Ext Door 0 0 **Total** Project Name: 22010703 - Killearn Clubhouse TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023 Dataset Name: 22010703 - Killearn GC.trc Alternative - 1 System Checksums Report Page 7 of 21

Zone Checksums

By JSE

Zone Checksums By JSE COOLING COIL PEAK CLG SPACE PEAK HEATING COIL PEAK TEMPERATURES Mo/Hr: Heating Design OADB: 25
 Peaked at Time:
 Mo/Hr: 8 / 18

 Outside Air:
 OADB/WB/HR: 78 / 77 / 139
 Mo/Hr: 6 / 19 OADB: 88 Cooling Heating 55.0 85.1 OADB: 25 Space Peak Coil Peak Percent Space Sens Tot Sens Of Total Btu/h Btu/h (%) Net Percent Total Of Total Space Percent Sensible Of Total Btu/h (%) Space Plenum Sens. + Lat. Sens. + Lat Btu/h Btu/h Btu/h Envelope Loads Skylite Solar Skylite Cond Glass Solar Glass/Door Cond Wall Cond Partition/Door Floor Adjacent Floor Infiltration Envelope Loads Skylite Solar Skylite Solar Roof Cond Glass Solar Glass/Door Conu Wall Cond Partition/Door Floor Adjacent Floor Infiltration Fn Frict 960 989 AIRFLOWS Cooling Heating 364 364 3,157 2,395 Diffuser v 0.00 0.00 0.00 0.00 Terminal Main Fan 364 364 0.00 0.00 0.00 0.00 0.00 Sec Fan Sub Total ==> 4,146 Sub Total ==> Nom Vent AHU Vent Internal Loads Internal Loads
 Intil

 0.00
 MinStop/Rh

 0.00
 Return

 0.00
 Exhaust

 0.00
 Rm Exh

 Auxiliary

 0.00
 Leakage Dwn
 Lights People Misc 1,010 0 2,021 Lights J People 29 Misc 808 0 2,021 2.02 3,031 2,829 Sub Total ==> Sub Total ==> 2,829 Ceiling Load Ventilation Load Adj Air Trans Heat Dehumid. Ov Sizing Ov/Undr Sizing Exhaust Heat Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup Underfir Sup Ht Pkup Suppiv Air Leakaco 0 Ceiling Load
0 Ventilation Load
0 Adj Air Trans Heat Leakage Ups Ov/Undr Sizing 0 Exhaust Heat 0A Preheat Diff. RA Preheat Diff. Additional Reheat System Plenum Heat -4.647 0 ENGINEERING CKS
 Cooling
 Heating

 0.0
 0.0

 1.23
 1.23

 684.68
 556.26

 21.57
 -20.86

 0.00
 % OA

 0.00
 cfm/ft²

 0.00
 cfm/ft²

 0.00
 ft²/ton

 100.00
 Btu/hr·ft²

 100.00
 No. People
 Underfir Sup Ht Pkup Supply Air Leakage Supply Air Leakage 6,975 100.00 Grand Total ==> Grand Total ==> 6,385 100.00 202 COOLING COIL SELECTION AREAS HEATING COIL SELECTION Total Capacity Sens Cap. Coil Airflow Enter DB/WB/HR ton MBh MBh cfm °F °F gr/lb CapacityCoil Airflow Ent Ly MBh ofm °F ... °F gr/lb 55.0 54.1 60.3 0.0 0.0 0.0 364 70.0 85. 0 0.0 0. Main Clg Aux Clg 0.5 6.4 0.0 0.0 6.4 0.0 Main Htg Aux Htg -6.2 0.0 0.3 Floor 0.0 Part Opt Vent 0 0.0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 Int Door ExFlr Roof Wall Preheat 0.0 Total 0.5 6.4 0 0.0 0. 0 0.0 0. 0 Humidif 0 Opt Vent Ext Door Total

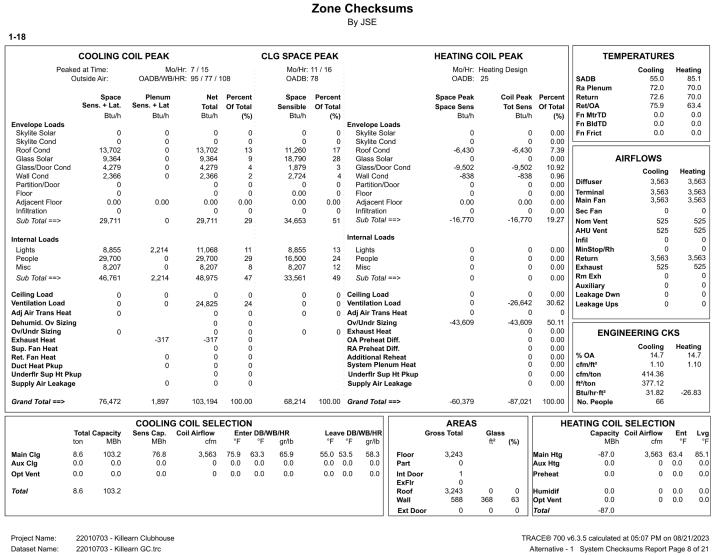
Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - KILLEARN GC.TRC TRACE® 700 v6.3.5 calculated at 06:05 PM on 08/21/2023 Alternative - 1 System Checksums Report Page 14 of 26

	COOLING	COIL PEAK			CLG SPAC	E PEAK			HEATING C	OIL PEAK		тем	PERATURE	s
Pea	ked at Time: Outside Air:		o/Hr: 8 / 15 8/HR: 82 / 78 / ′	139	Mo/H OADE	:: 6 / 11 :: 87			Mo/Hr: H OADB:	leating Design 25		SADB Ra Plenum	Cooling 55.0 74.3	Heating 73.4 69.7
	Space	Plenum	Net	Percent	Space	Percent			Space Peak	Coil Peak	Percent	Return	74.0	70.0
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total			Space Sens	Tot Sens	Of Total	Ret/OA	75.6	54.1
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)			Btu/h	Btu/h	(%)	Fn MtrTD	0.0	0.0
Envelope Loads							Envelope Lo	ads			. ,	Fn BldTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	Skylite Sc	lar	0	0	0.00	Fn Frict	0.0	0.0
Skylite Cond	0	0	0	0	0	0	Skylite Co	nd	0	0	0.00			
Roof Cond	0	0	0	0	0	0	Roof Con	t	0	0	0.00			
Glass Solar	0	0	0	0	C	0	Glass Sol	ar	0	0	0.00	A	IRFLOWS	
Glass/Door Cond	I 0	0	0	0	C	0	Glass/Doo	or Cond	0	0	0.00		Cooling	Heatin
Wall Cond	0	0	0	0	0	0	Wall Cond		0	0			Cooling	Heatin
Partition/Door	0		0	0	0	0	Partition/)oor	0	0	0.00	Diffuser	185	1
Floor	0		0	0	0.00	0	Floor		0	0	0.00	Terminal	185	1
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent	=loor	0.00	0.00	0.00	Main Fan	185	18
Infiltration	0		0	0	C	0	Infiltration		0	0	0.00	Sec Fan	0	
Sub Total ==>	0	0	0	0	C	0	Sub Total	==>	0	0	0.00	Nom Vent	65	
ous rolar -	•	Ũ	Ŭ	Ŭ		Ũ			-	-		AHU Vent	65	i
nternal Loads							Internal Loa	ds				Infil	0	
													0	
Lights	1,755	286	2,041	25	1,755		Lights		0	0		MinStop/Rh		
People	900	0	900	11	500		People		0	0		Return	185	1
Misc	773	0	773	9	773		Misc		0	0		Exhaust	65	6
Sub Total ==>	3,428	286	3,714	45	3,028	86	Sub Total	==>	0	0	0.00	Rm Exh	0	
									50			Auxiliary	0	
Ceiling Load	440	-440	0	0	507		Ceiling Load		-52	0		Leakage Dwn	0	
Ventilation Load	0	0	4,572	55	0	-			0	-3,308	82.30	Leakage Ups	0	
Adj Air Trans Hea			0	0	(0			0	0				
Dehumid. Ov Siziı	ng		0	0			Ov/Undr Siz	ing	-660	-660	16.41			
Ov/Undr Sizing	0		0	0	0	0	Exhaust Hea			0		ENGI	NEERING CH	<s< td=""></s<>
Exhaust Heat		0	0	0			OA Preheat			0	0.00			
Sup. Fan Heat			0	0			RA Preheat	Diff.		0	0.00		Cooling	Heating
Ret. Fan Heat		0	0	0			Additional F			0	0.00	% OA	35.3	35.3
Duct Heat Pkup		0	0	0			System Pler			-52		cfm/ft ²	0.31	0.3
Underfir Sup Ht P	kup		0	0			Underflr Su	o Ht Pkup		0	0.00	cfm/ton	267.45	
Supply Air Leakaç	je	0	0	0			Supply Air L	eakage		0	0.00	ft²/ton	866.04	
Grand Total ==>	3,868	-154	8,286	100.00	3,535	100.00	Grand Total	==>	-712	-4,020	100.00	Btu/hr·ft² No. People	13.86 2	-6.72
		COOL IN/	G COIL SEL	ECTION					AREAS]				
	Total Capacity	Sens Cap.	Coil Airflow		DB/WB/HR	1.0	DB/WB/HR	.	Gross Total	Glass			Coil Airflow	Ent I
	ton MBh	MBh	con Annow cfm		°F gr/lb	°F	°F gr/lb	`	51035 10tai	ft ² (%)		MBh	con Airnow cfm	°F
					0		U U		500	(,				
lain Clg	0.7 8.3	4.1	185		7.1 85.1	55.0 5		Floor	598		Main Htg	-4.0		54.1 7
ux Clg	0.0 0.0	0.0	0		0.0 0.0		0.0 0.0	Part	0		Aux Htg	0.0		0.0
Opt Vent	0.0 0.0	0.0	0	0.0	0.0 0.0	0.0	0.0 0.0	Int Door	1		Preheat	-0.2	185	54.1 5
								ExFlr	0					
otal	0.7 8.3							Roof	0		Humidif	0.0	0	0.0
								Wall	0	0 0	Opt Vent	0.0	0	0.0
								Ext Door	0	0 0	Total	-4.0		

Zone Checksums

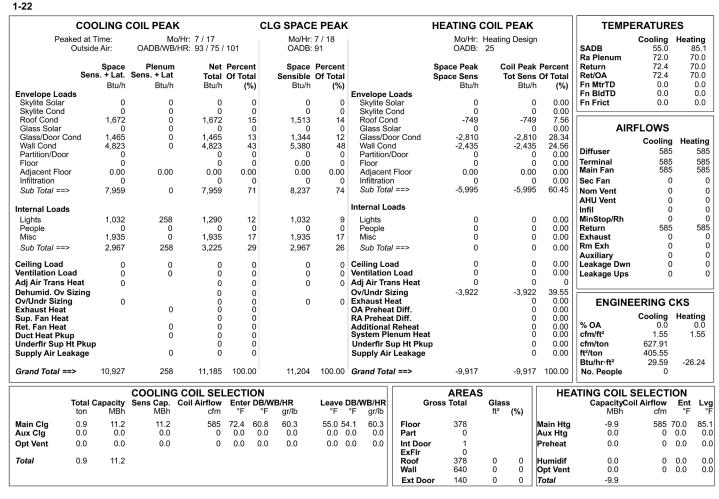
Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - Killearn GC.trc

TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023 Alternative - 1 System Checksums Report Page 20 of 21

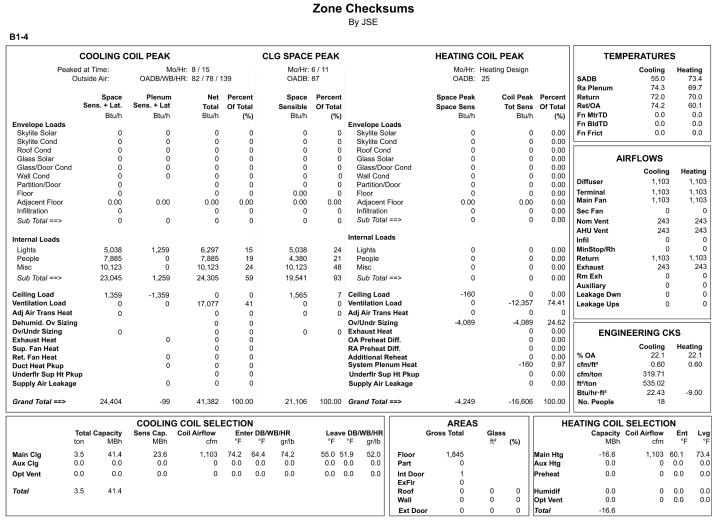


Dataset Name: 22010703 - Killearn GC.trc

Zone Checksums By JSE



Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - KILLEARN GC.TRC

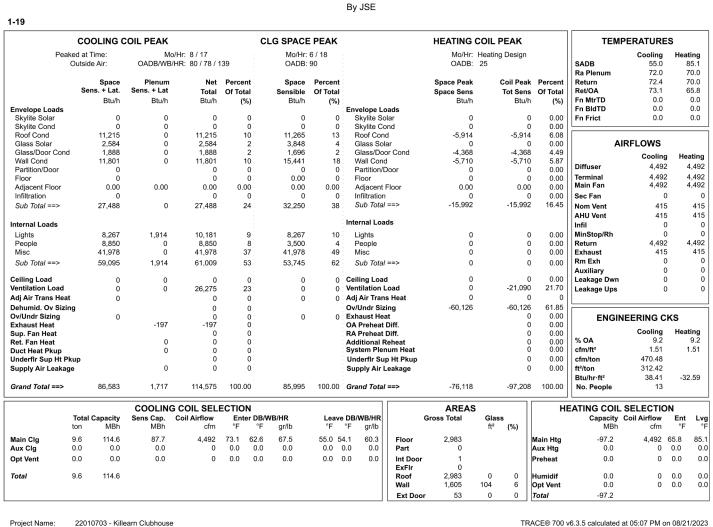


Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - Killearn GC.trc

TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023 Alternative - 1 System Checksums Report Page 21 of 21

TRACE® 700 v6.3.5 calculated at 06:05 PM on 08/21/2023

Alternative - 1 System Checksums Report Page 15 of 26



Zone Checksums

Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - Killearn GC.trc

Project Name: 22010703 - Killearn Clubhouse

Dataset Name: 22010703 - Killearn GC.trc

Zone Checksums By JSE B1-1 COOLING COIL PEAK CLG SPACE PEAK HEATING COIL PEAK TEMPERATURES Cooling Heating 55.0 73.4 74.4 69.7 Peaked at Time: Mo/Hr: 7 / Mo/Hr: 6 / 11 Mo/Hr: Heating Design OADB: 87 OADB: 25 Outside Air: OADB/WB/HR: 95 / 77 / 108 SADB Coil Peak Percent Ra Plenum Coil Peak Percent Return Tot Sens Of Total Ret/OA Btu/h (%) Fn MtrTD Fn BldTD Space Peak Space Sens Btu/h Space Percent 72.0 76.3 Space Plenum Sens. + Lat. Sens. + Lat Sensible Of Total Btu/h (%) Total Of Total Btu/h Btu/h Envelope Loads Skylite Solar Skylite Cond Roof Cond Glass Solar Glass/Door Cond Wall Cond Partition/Door Floor Adjacent Floor Infiltration
 Envelope Loads

 0
 0
 Skylite Solar

 0
 0
 Skylite Solar

 0
 0
 Skylite Solar

 0
 0
 Roof Cond

 0
 0
 Roof Cond

 0
 0
 Glass/Door Cond

 4,322
 13
 Wall Cond

 0
 0
 Partition/Door

 0.00
 0
 Floor

 0.00
 0.00
 Adjacent Floor

 0
 0
 Infiltration

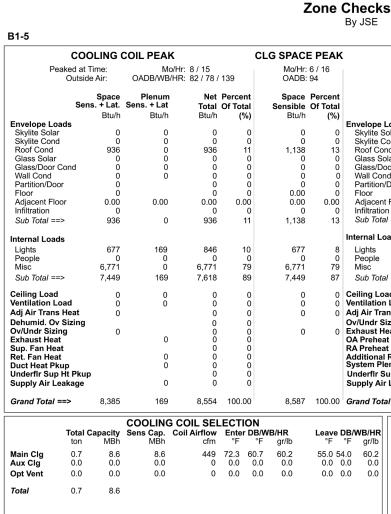
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 700
 17
 0.0 0.00 Fn Frict AIRFLOWS 0.00 19.47 Cooling Heating 1,783 1,783 -2,066 12.49 0.00 Diffuser 0.00 Terminal 0.00 Main Fan 1,783 1,783 0.00 0.00 0.00 Sec Fan Sub Total ==> 967 5,799 Sub Total ==> -6.637 31.96 Nom Vent 4,908 AHU Vent Internal Loads Internal Loads Infil 0.00 MinStop/Rh 0.00 Return 0.00 Exhaust 0.00 Rm Exh Auxiliary 0.00 Leakage Dwn 1,859 9,297 0 0 0 18,594 7,438 0 18,594 26,032 Lights People Misc 1,859 22 Lights 0 People 54 Misc 7,438 1,783 18,594 26,032 Sub Total ==> 1,859 27,891 76 Sub Total ==> Ceiling Load Ventilation Load Adj Air Trans Heat 2,090 -2,090 0 7 Ceiling Load 2,310 0 Ventilation Load 0 Adj Air Trans Hea 20,541 -16,601 70.72 Leakage Ups Dehumid. Ov Sizing Ov/Undr Sizing Exhaust Heat Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup Underfir Sup Ht Pkup 0.00 0.00 0.00 0.00 0.00 0.00 % OA cfm/ft² 0.00 cfm/tton Btu/hr:ft² 100.00 No. People Ov/Undr Sizing Exhaust Heat OA Preheat Diff. RA Preheat Diff. ENGINEERING CKS 0
 Cooling
 Heating

 18.3
 18.3

 0.65
 0.65

 394.07
 601.91

 19.94
 -8.62
 Additional Reheat System Plenum Heat Underflr Sup Ht Pkup 0 Supply Air Leakage Supply Air Leakage Grand Total ==> 34,141 100.00 Grand Total ==> 736 54,307 100.00 No. People COOLING COIL SELECTION AREAS HEATING COIL SELECTION tal Capacity Sens Cap. Coil Airflow Enter DB/WB/HR MBh MBh cfm °F °F gr/lb Gross Total Capacity Coil Airflow Ent Lvc MBh cfm °F °F F °F gr/lb | ' 55.0 53.0 56.2 Floor 0.0 0.0 0.0 Part 2,724 1,783 61.7 73 0 0.0 0 Main Clg Aux Clg 1,783 76.3 63.3 65.3 0 0.0 0.0 0.0 Main Htg Aux Htg -23.5 0.0 4.5 54.3 0.0 0.0 42.3 0.0 0.0 0.0 0.0 Int Door ExFir Roof Wall 0 0.0 0.0 0.0 Preheat 0.0 0 0.0 0.0 Opt Vent 0.0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 Total 4.5 54.3 Humidif Opt Vent 0.0 772 Ext Door 144 0 | Total



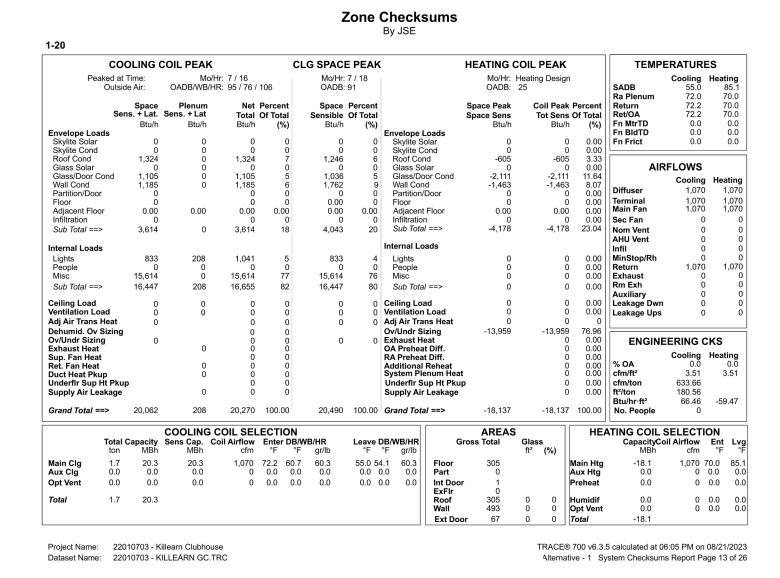
4

Project Name: 22010703 - Killearn Clubhouse Dataset Name: 22010703 - KILLEARN GC.TRC

TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023 Alternative - 1 System Checksums Report Page 9 of 21

TRACE® 700 v6.3.5 calculated at 05:07 PM on 08/21/2023

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	HEATING	COIL	. PEAK	TEMPERATURES						
	Mo/Hr: OADB:		ng Desigr	n	SADB	Cooling 55.0	Heating 85.1			
	Space Peak		Coil Peak	Porcont	Ra Plenum Return	72.0 72.3	70.0 70.0			
	Space Sens			Of Total	Ret/OA	72.3	70.0			
	Btu/h		Btu/h		Fn MtrTD	0.0	0.0			
Loads					Fn BldTD	0.0	0.0			
Solar	0		0		Fn Frict	0.0	0.0			
Cond ond	0 -492		0 -492							
Solar	0		0		AIR	FLOWS				
Door Cond	0		0			Cooling	Heating			
ond NDoor	0		0		Diffuser	449	449			
n/Door	0		0		Terminal	449	449			
nt Floor	0.00		0.00		Main Fan	449				
on	0		0	0.00	Sec Fan	0	0			
tal ==>	-492		-492	6.47	Nom Vent	0	0			
					AHU Vent	0	0			
.oads					Infil	0	0			
	0		0		MinStop/Rh	0	0			
	0 0		0		Return Exhaust	449 0	449 0			
al ==>	0		0		Rm Exh	0	0			
ai/	0		0	0.00	Auxiliary	0	0			
oad	0		0	0.00	Leakage Dwn	0	0			
n Load	0		0		Leakage Ups	0	0			
ans Heat	0		0	- 1						
Sizing Heat	-7,109		-7,109 0							
at Diff.			0		ENGINE					
at Diff.			0	0.00		Cooling	Heating			
al Reheat			0		% OA	0.0 1.81	0.0			
'lenum Hea Sup Ht Pku			0		cfm/ft ² cfm/ton	1.81 629.27	1.81			
ir Leakage	4		0		ft²/ton	347.91				
ii Leanage			0	0.00	Btu/hr·ft ²	34.49	-30.65			
tal ==>	-7,601		-7,601	100.00	No. People	0				
]	AREAS	5		HEA			ON			
G	Gross Total	Gla ft ²	ss (%)		CapacityCo MBh	il Airflow cfm	Ent Lv °F °I			
Floor	248			Main Htg	-7.6	449				
Part	0			Aux Htg	0.0	0	0.0 0.			
Int Doo				Preheat	0.0	0	0.0 0.0			
ExFlr	0	0		L	0.0	0	0.0 0.			
Roof Wall	248 0	0 0	0	Humidif Opt Vent	0.0 0.0	0	0.0 0.0			
Ext Do		0	0	Total	-7.6	0	0.0 0.			

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	cod	DLING C	OIL PEAK			CLO	G SPACE	PEAK			HEATING C		EAK		ТЕМ	PERATURE	s	
Pea	ked at T			lr: 8 / 15			Mo/Hr:				Mo/Hr: H					Cooling	Heat	tina
	Outside	Air:	OADB/WB/H	R: 82/78/	139		OADB:	87			OADB:	25	Ū		SADB Ra Plenum	55.0 74.3		73.4 59.7
		Space	Plenum	Net	Percen		Space	Percent			Space Peak			Percent	Return	72.0	7	70.0
	Sen	s. + Lat. Btu/h	Sens. + Lat Btu/h	Total Btu/h	Of Tota (%		Sensible Btu/h	Of Total (%)			Space Sens Btu/h		Tot Sens Btu/h		Ret/OA Fn MtrTD	73.5 0.0		63.3 0.0
Envelope Loads		Dtu/II	Dtu/II	Dtu/II	(70	1	Dtu/II	(70)	Envelope Lo	hads	Btu/II		Dtu/II	(70)	Fn BldTD	0.0		0.0
Skylite Solar		0	0	0	(0	0	Skylite So		0		0	0.00	Fn Frict	0.0		0.0
Skylite Cond		0	Ō	Ō	(,	0	0	Skylite Co		Ō		0					
Roof Cond		õ	ŏ	Ő	Ċ		õ	õ	Roof Con		Ő		Ő					-
Glass Solar		ŏ	ő	0		j:	õ	ő	Glass So		0		Ő		Δ	IRFLOWS		
Glass/Door Cond	1	ŏ	õ	ő			õ	ŏ	Glass/Do		ő		ő					
Wall Cond		ŏ	ő	Ő			Ő	Ő	Wall Con		0		Ő			Cooling	Hea	atin
Partition/Door		Ő	0	0	Č		0	ő	Partition/I		0		Ő		Diffuser	3,890	3	3,89
Floor		Ő		0	(0.00	0	Floor	5001	0		Ő		Terminal	3.890	3	3.89
Adjacent Floor		0.00	0.00	0.00	0.00		0.00	0.00	Adjacent	Floor	0.00		0.00		Main Fan	3,890		3,89
Infiltration		0.00	0.00	0.00	0.00		0.00	0.00	Infiltration		0.00		0.00		Sec Fan	0		
		0	0	0	(0	0	Sub Total		0		0					
Sub Total ==>		0	0	0	(2	0	0	Sub Total	/	0		0	0.00	Nom Vent	576		57
Internal Loads									Internal Loa	ds					AHU Vent Infil	576 0		57
		40.000	0.074	10.070			40.000	10			0			0.00		0		
Lights		13,098	3,274	16,372	14		13,098	18	Lights		0		0		MinStop/Rh			
People		0	0	0	(0	0	People		0		0		Return	3,890	3	3,890
Misc		57,303	0	57,303	50) (57,303	77	Misc		0		0		Exhaust	576		57
Sub Total ==>		70,400	3,274	73,675	65	5	70,400	95	Sub Total	==>	0		0	0.00	Rm Exh	0		(
Ceiling Load		3,532	-3,532	0	(4,068	5	Ceiling Loa	4	-417		0	0.00	Auxiliary Leakage Dwn	0		
Ventilation Load		3,532	-3,532	40.402	35		4,068	5	Ventilation I		-417		-29,235			0		
			0	,							-		-29,200		Leakage Ups	0		
Adj Air Trans Hea		0		0	(0	0	Adj Air Tran		0		-	- 1				
Dehumid. Ov Sizi	ng			0)			Ov/Undr Siz		-14,576		-14,576					
Ov/Undr Sizing		0	_	0			0	0	Exhaust He				0		ENGI	NEERING C	KS	
Exhaust Heat			0	0)			OA Preheat				0			0		
Sup. Fan Heat				0) (RA Preheat				0	0.00	~ ~ ~	Cooling	Heat	
Ret. Fan Heat			0	0)			Additional F				0		% OA	14.8		14.8
Duct Heat Pkup			0	0)			System Plei				-417		cfm/ft²	0.81	0	0.81
Underflr Sup Ht P				0)			Underflr Su				0		cfm/ton	409.20		
Supply Air Leakag	je		0	0	()			Supply Air I	_eakage			0	0.00	ft²/ton	504.61		
															Btu/hr·ft ²	23.78	-9	9.22
Grand Total ==>		73,933	-258	114,077	100.00)	74,469	100.00	Grand Total	==>	-14,993		-44,229	100.00	No. People	0		
			COOLING	COIL SEL	ECTION	1					AREAS			н		SELECTIO	N	
	Total C	Capacity	Sens Cap. C	oil Airflow	Ente	DB/WE	B/HR		e DB/WB/HR		Gross Total	Glass	.		Capacity	Coil Airflow	Ent	L
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F gr/lb			ft²	(%)		MBh	cfm	°F	
Main Clg	9.5	114.1	80.2	3,890	73.5	62.9	68.1	55.0 5	3.0 56.2	Floor	4,797			Main Htg	-44.2	3,890	63.3	73
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0 0.0	Part	0			Aux Htg	0.0	0	0.0	(
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0 0.0	Int Door	1			Preheat	0.0	0	0.0	(
		0.0		Ũ						ExFir	O				2.0	Ū		
Total	9.5	114.1								Roof	õ	0	0	Humidif	0.0	0	0.0	(
	2.0									Wall	õ	ŏ		Opt Vent	0.0	ŏ	0.0	Ċ
																0	5.0	`
										Ext Door	· U	0	0	Total	-44.2			

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