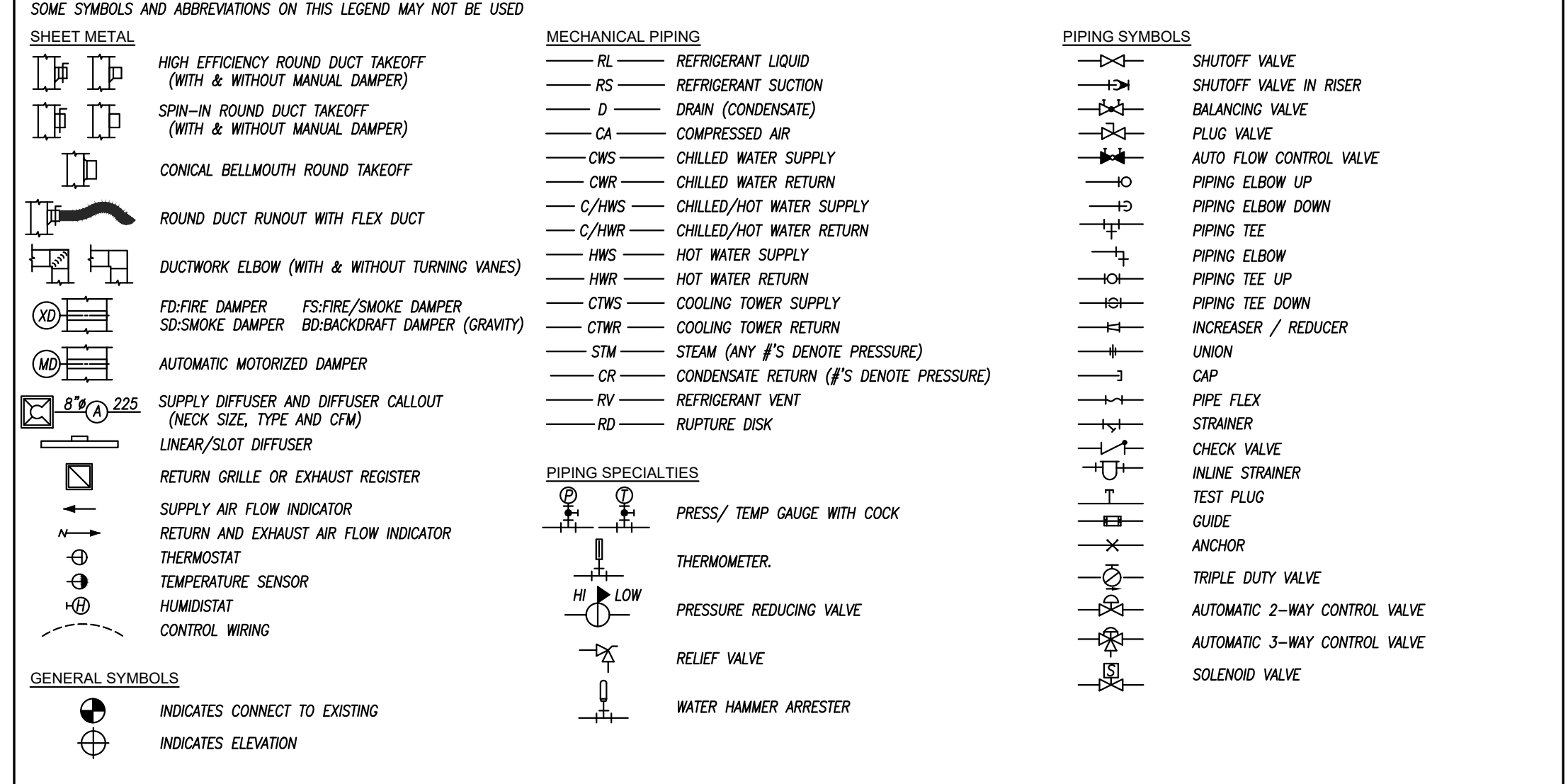


TOPEKA METRO

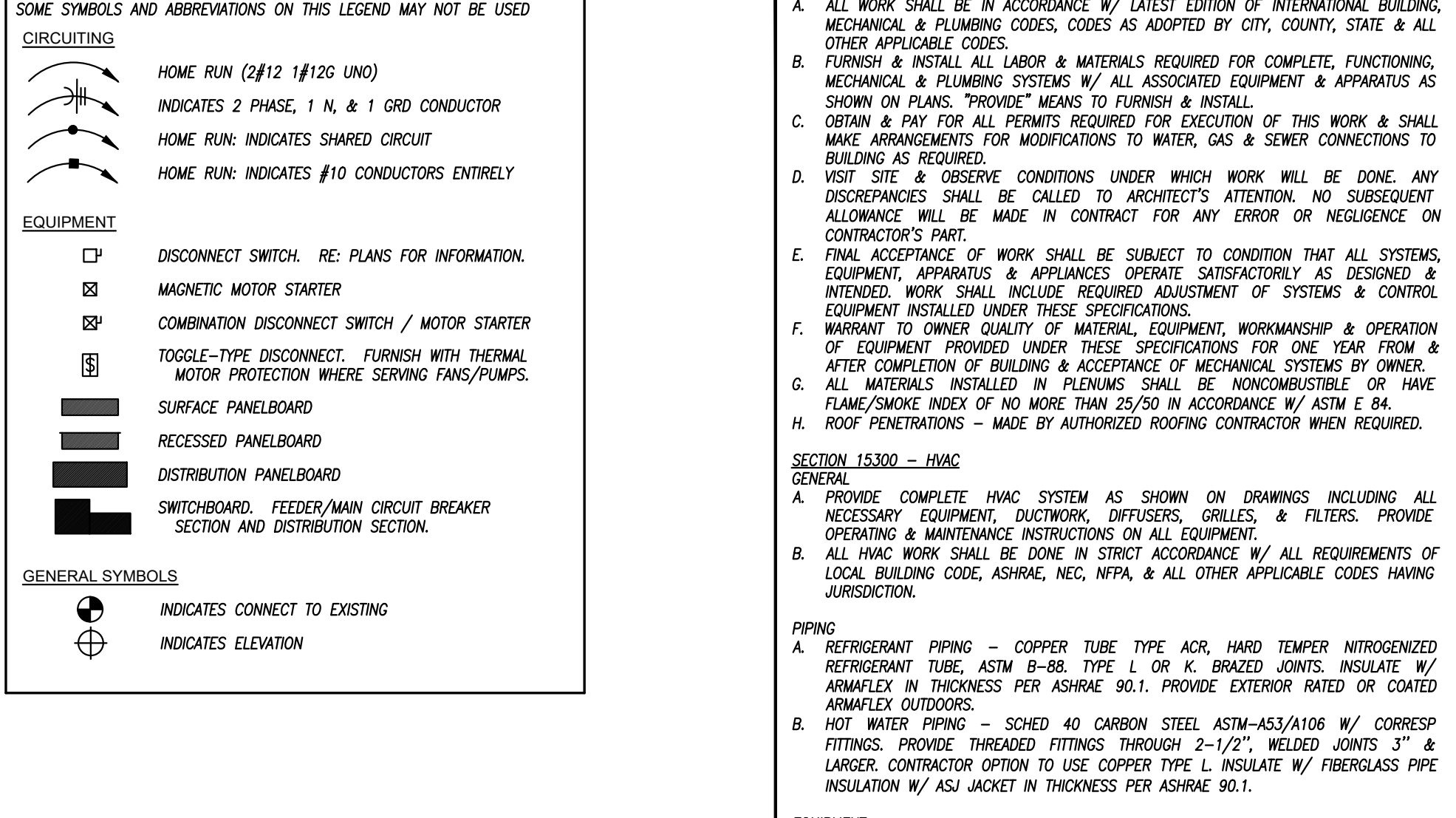
**REQUEST FOR BIDS
QSS HVAC Equipment Upgrade
TO-25-03**

**Appendix 3
Engineering Plans**

MECHANICAL AND PLUMBING SYMBOL LEGEND
SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

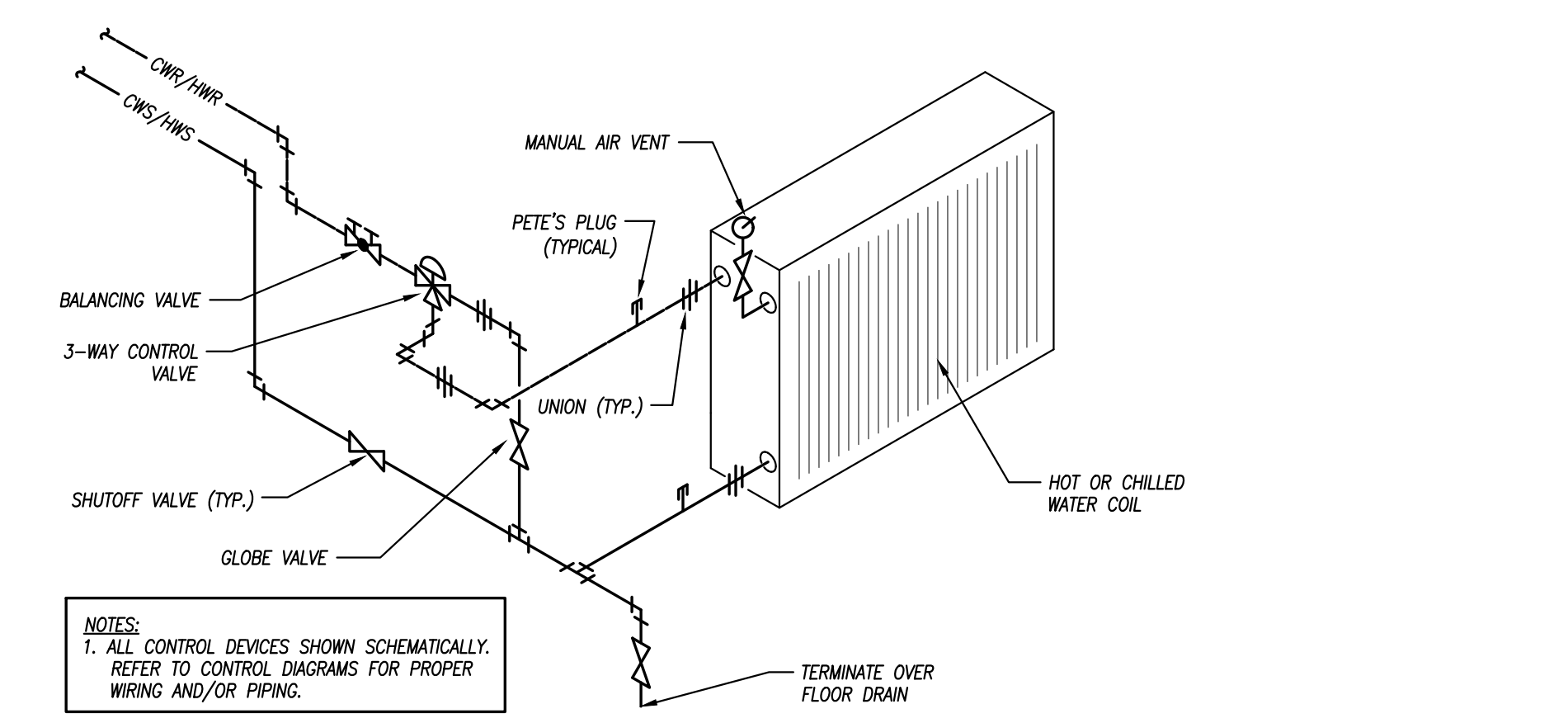


15000 - MECHANICAL REQUIREMENTS



16000 - ELECTRICAL SPECIFICATIONS

- SECTION 16000 - ELECTRICAL REQUIREMENTS**
- GENERAL REQUIREMENTS**
- A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
 - B. ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.
 - C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
 - D. CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
 - E. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.
 - F. CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
 - G. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
 - H. WARRANT TO OWNER QUALITY OF MATERIAL, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
 - I. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
 - J. ROOF PENETRATIONS - MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.
- SECTION 15300 - HVAC GENERAL**
- A. PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES & FILTERS. PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.
 - B. ALL HVAC WORK SHALL BE DONE IN STRICT ACCORDANCE W/ ALL REQUIREMENTS OF LOCAL BUILDING CODE, ASHRAE, NECA, NFPA, & ALL OTHER APPLICABLE CODES HAVING JURISDICTION.
- PIPING**
- A. REFRIGERANT PIPING - COPPER TUBE TYPE ACR, HARD TEMPER NITROGENIZED REFRIGERANT TUBE, ASTM B-88, TYPE L OR K, BRAZED JOINTS. INSULATE W/ ARMAFLEX IN THICKNESS PER ASHRAE 90.1. PROVIDE EXTERIOR RATED OR COATED ARMAFLEX OUTDOORS.
 - B. HOT WATER PIPING - SCHED 40 CARBON STEEL, ASTM-A53/A106 W/ CORRESP FITTINGS. PROVIDE THREADED FITTINGS THROUGH 2-1/2", WELDED JOINTS 3" & LARGER. CONTRACTOR OPTION TO USE COPPER TYPE L, INSULATE W/ FIBERGLASS PIPE INSULATION W/ ASJ JACKET IN THICKNESS PER ASHRAE 90.1.
- EQUIPMENT**
- A. SPLIT SYSTEM AHUS, EVAPORATORS, & CONDENSING UNITS AS SCHEDULED. MODIFY EXISTING AHUS, CONDENSING UNIT - HEAVY GAUGE BASE, SCROLL COMPRESSOR(S). RATED SEER NOT LESS THAN 10.3. (1) YR PARTS & LABOR SYSTEM WARRANTY & ADDITIONAL 4 YR COMPRESSOR ONLY WARRANTY. ANTI-SHORT CYCLE PREVENTION CONTROLS. LOUVERED COIL HAIL GUARDS, 30 DEG LOW AMBIENT.
- EXECUTION**
- A. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. PROVIDE ANY REQUIRED INTERFACES TO FIRE ALARM OR SIMILAR SYSTEMS.
 - B. PROVIDE FACTORY-AUTHORIZED SERVICE START UP ON EQUIPMENT. TRAIN OWNER'S MAINTENANCE PERSONNEL ON STARTUP, SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE.



SINGLE WATER COIL DETAIL
NOT TO SCALE

FIRE SEALING NOTES

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE U.L. REQUIREMENTS.
- COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENINGS, AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FULL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
- PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILING, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN U.L. LISTING FOR CONSTRUCTION.

GEN. MECHANICAL NOTES

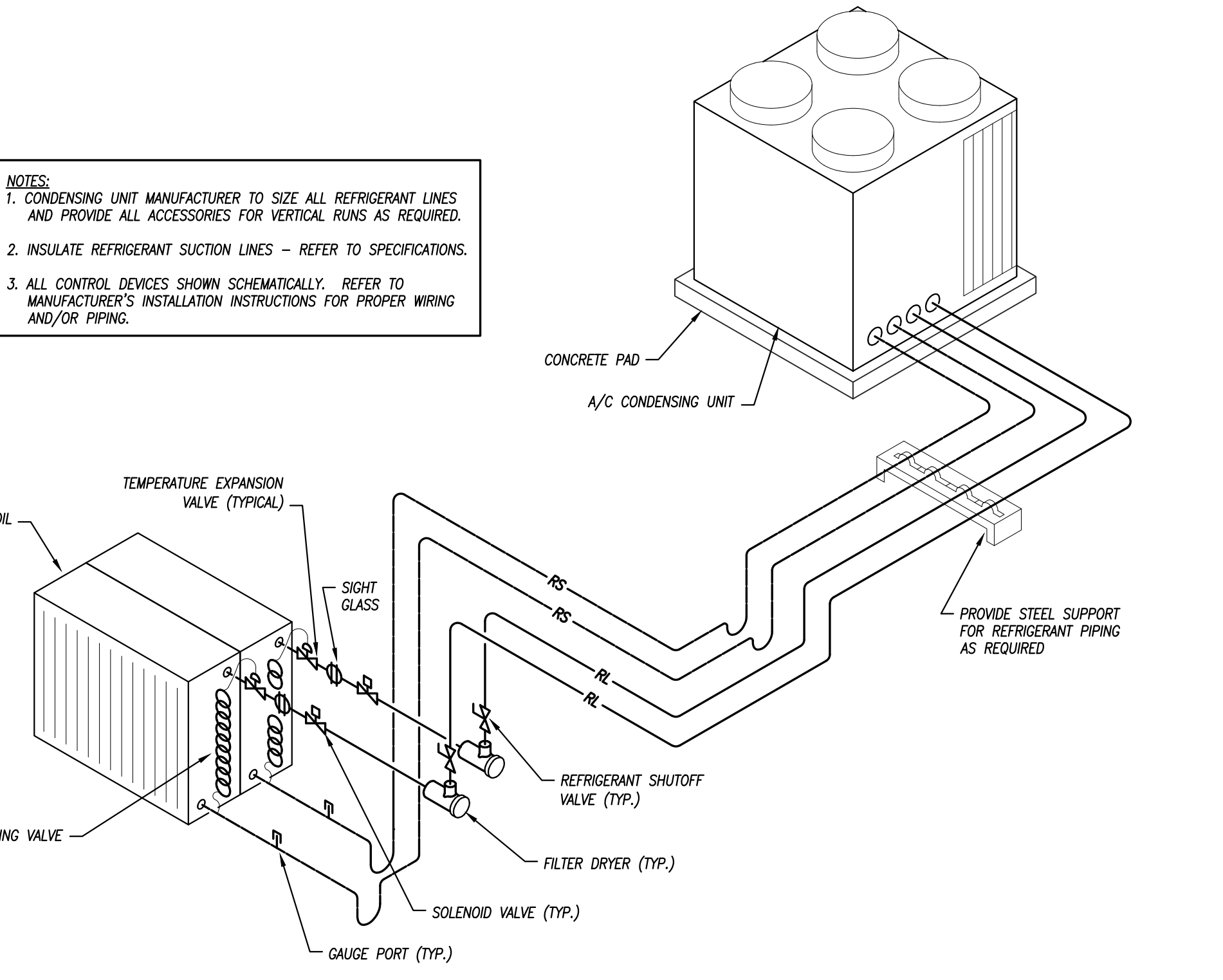
- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
- ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
- ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CERILING THEY ARE INSTALLED.
- START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATION IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

COORDINATION NOTES

- COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
- THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS INCLUDING RISERS, RISES, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILING, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
- CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO INSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILING AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
- TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
- WHENEVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO INSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADES WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
- COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
- DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- ADJUST LOCATION OF PIPING, DUCTWORK, ETC TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND UNANTICIPATED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
- WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
- COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PERMITS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.

GENERAL NOTES

- SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF RECORD DRAWINGS SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
- THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS. EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.



AHU D/X COIL & AIR-COOLED CONDENSING DETAIL
NOT TO SCALE

GENERAL ELECTRICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

GEN. RENOVATION NOTES

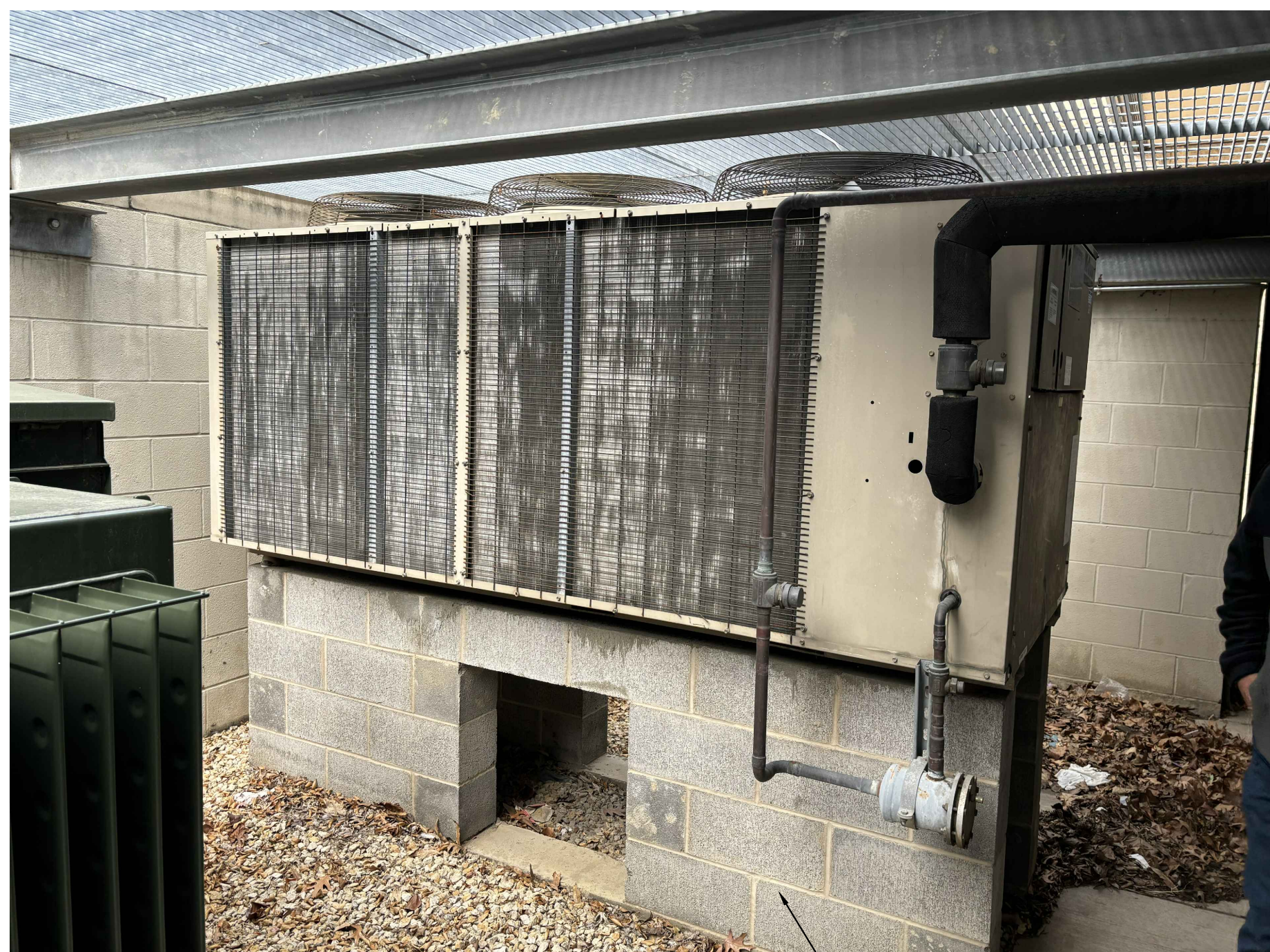
- EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
- EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.
- CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALED AS AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.

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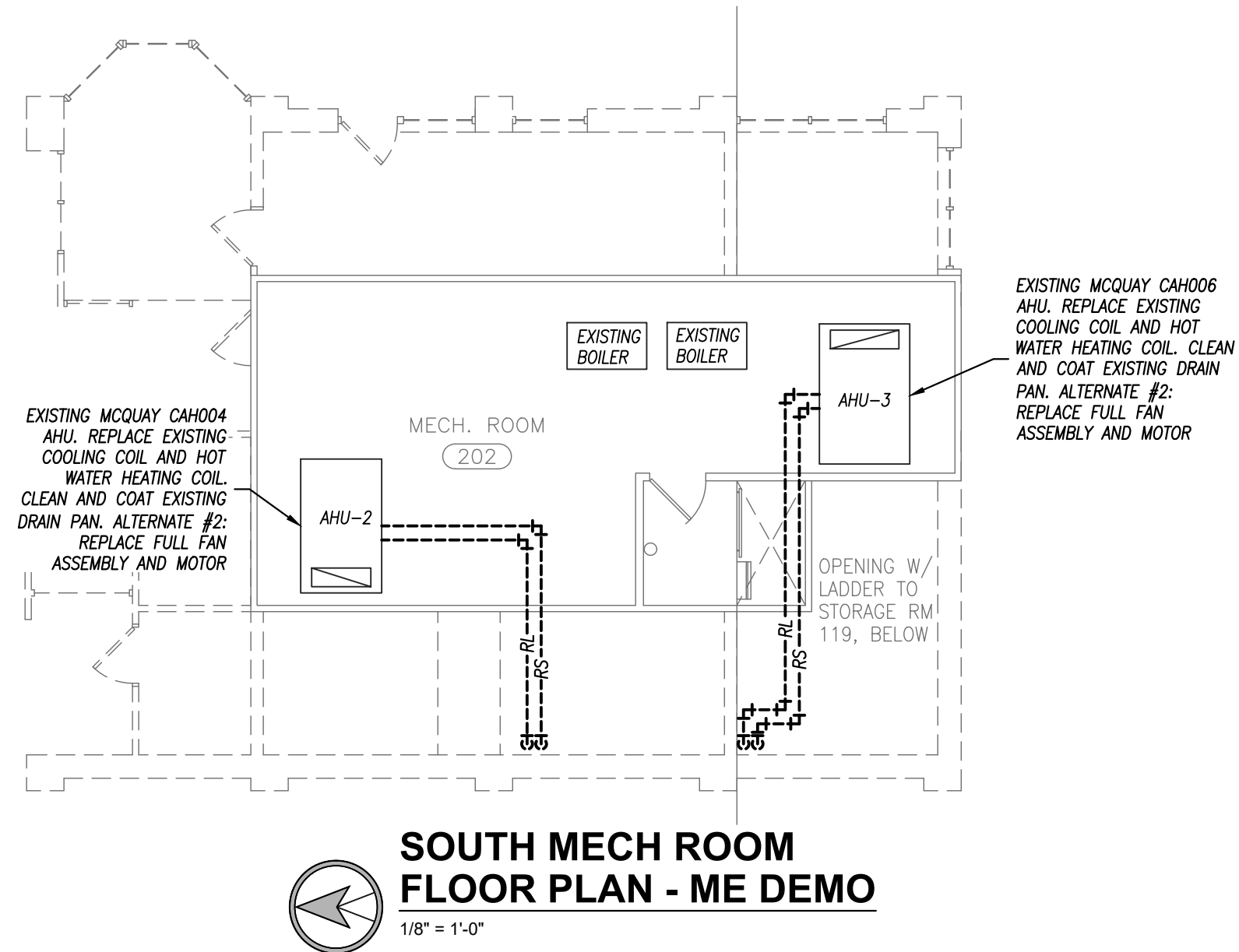
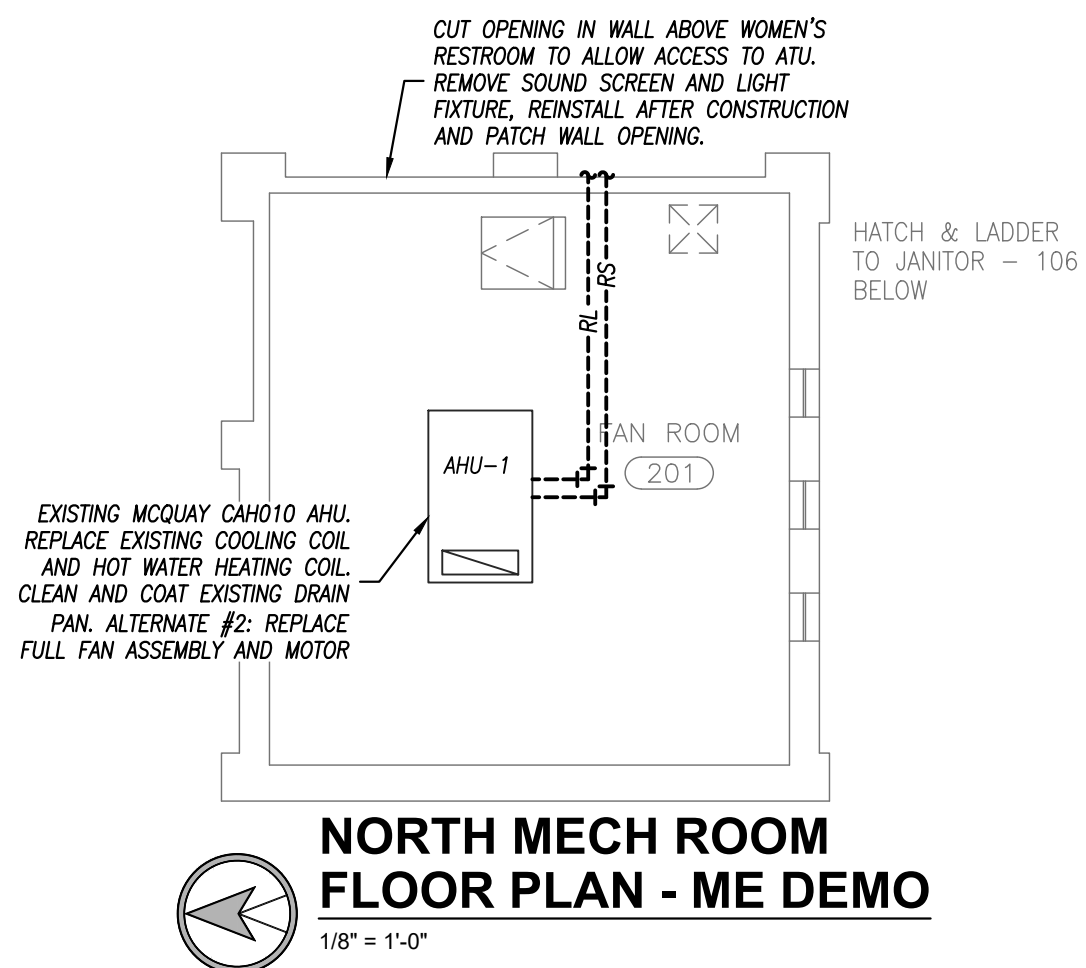
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NOTES & SYMBOLS
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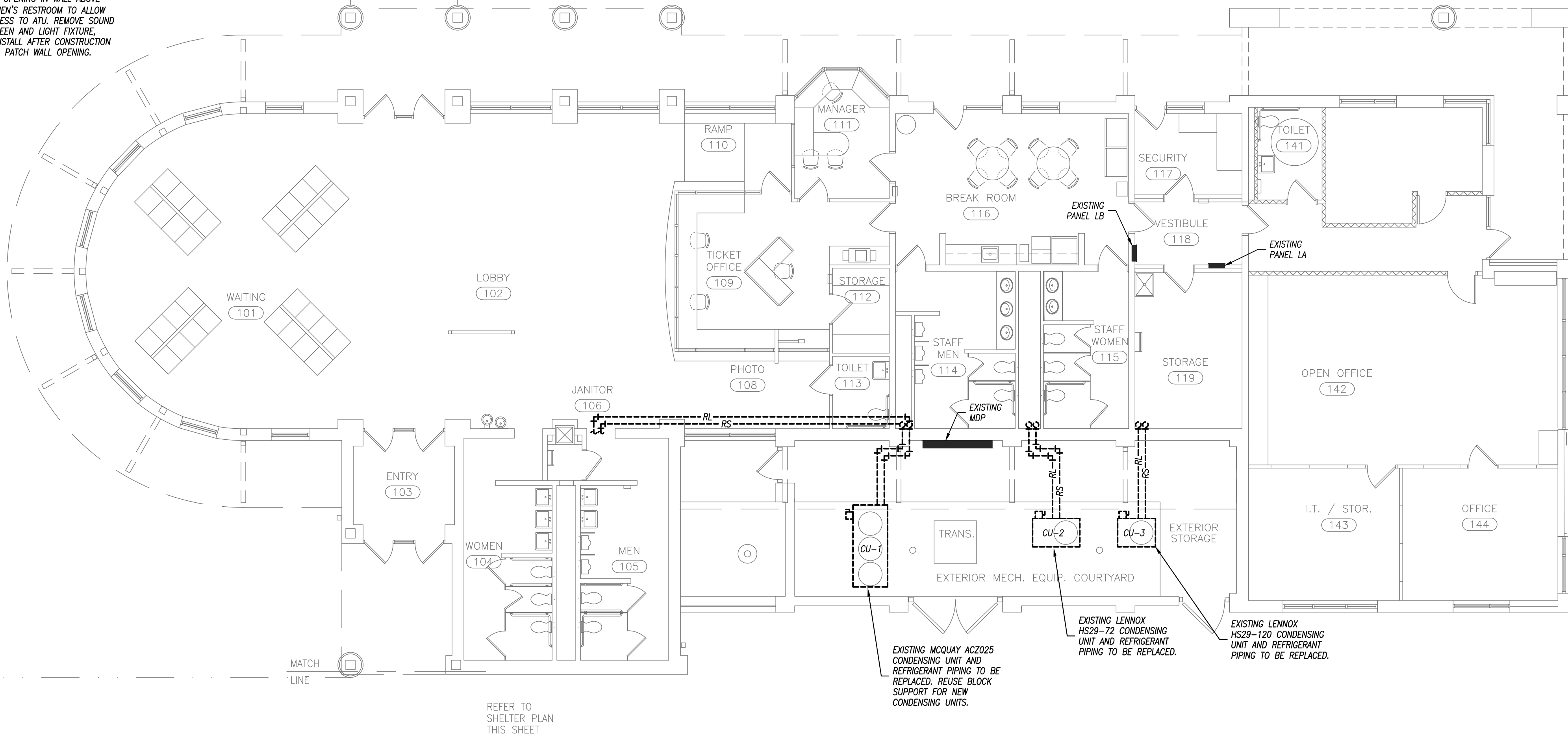
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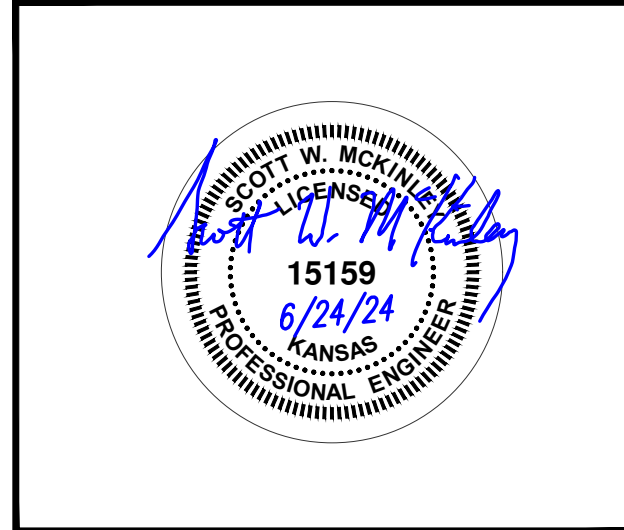
REUSE EXISTING BLOCK SUPPORT



CUT OPENING IN WALL ABOVE WOMEN'S RESTROOM TO ALLOW ACCESS TO ATU. REMOVE SOUND SCREEN AND LIGHT FIXTURE. REINSTALL AFTER CONSTRUCTION AND PATCH WALL OPENING.



FLOOR PLAN - ME DEMO
1/8" = 1'-0"



pkmr
ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
2949 SW WANAMAHER DRIVE, TOPEKA, KANSAS 66614
785.273.2447 WWW.PKMRENG.COM

**TOPEKA METROPOLITAN TRANSIT
AUTHORITY AC REPLACEMENT**

**820 SE QUINCY STREET
TOPEKA, KS**

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| EXISTING AIR HANDLING UNIT | | | | | | | | | |
|----------------------------|--------------|------------|-------|-----|------|------|-------|------|------------|
| MARK | MANUFACTURER | MODEL | FAN | | | | MOTOR | | |
| | | | CFM | BHP | RMP | ESP | HP | RPM | ELECTRICAL |
| EX AHU-1 | MCQUAY | CAH10FDAC | 4,930 | 4.8 | 1495 | 1.1" | 7.5 | 1800 | 208/3ø |
| EX AHU-2 | MCQUAY | CAH004FDAC | 1,960 | 2.2 | 2053 | 1.0" | 3.0 | 1800 | 208/3ø |
| EX AHU-3 | MCQUAY | CAH008FDAC | 2,390 | 1.3 | 1365 | 1.0" | 2.0 | 1800 | 208/3ø |

BASE BID: EXISTING FAN AND MOTOR TO REMAIN
ALTERNATE #2: REPLACE EXISTING FULL FAN ASSEMBLY AND MOTOR

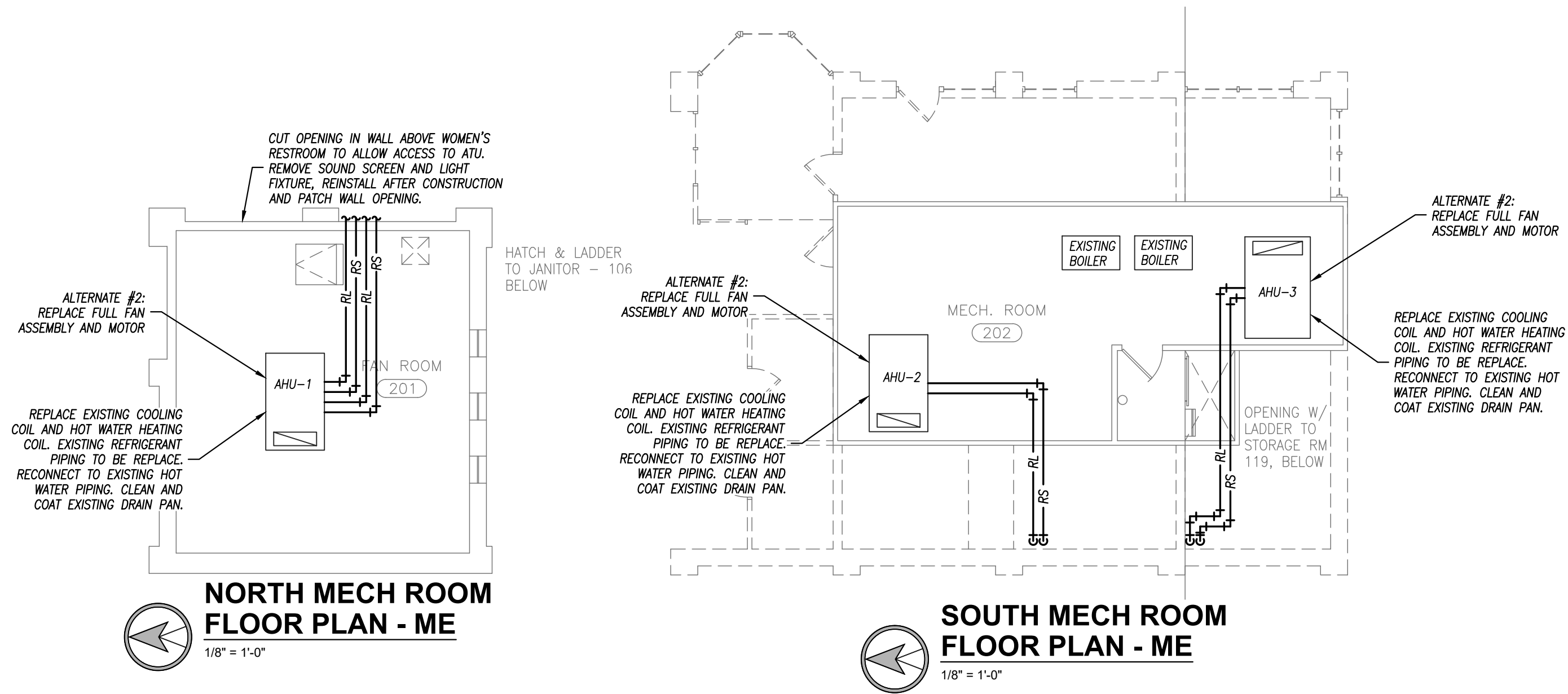
| HOT WATER HEATING COIL | | | | | | | | | | |
|------------------------|--------------|----------|-------|------|----------|--------|---------|-----------|------|----------------|
| MARK | MANUFACTURER | MODEL | CFM | GPM | CAPACITY | WPD | EAT/LAT | EWTLWT | ROWS | FIN DIMENSIONS |
| EX AHU-1 | DAIKIN | 5WB0802B | 4,930 | 14.1 | 219 MBH | 1.1 FT | 50/90.7 | 170/139.5 | 2 | 27" H X 48" L |
| EX AHU-2 | DAIKIN | 5WH0702B | 1,960 | 4.3 | 64 MBH | 0.1 FT | 60/90.2 | 170/139.8 | 2 | 18" H X 28" L |
| EX AHU-3 | DAIKIN | 5WH0802B | 2,390 | 5.3 | 79 MBH | 0.2 FT | 60/90.3 | 170/139.9 | 2 | 18" H X 28" L |

| COOLING COIL SCHEDULE | | | | | | | | | |
|-----------------------|--------------|--------------|-------|-------------|------------------|----------------------|---------------------|----------------|--|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | CFM | REFRIGERANT | COOLING CAPACITY | ENTERING AIR DRY/WET | LEAVING AIR DRY/WET | FIN DIMENSIONS | |
| EX AHU-1 | DAIKIN | 5EJ0806B | 4,930 | R-410A | 183 MBH | 80.0/67.0 | 57.0/55.0 | 27" H X 51" L | |
| EX AHU-2 | DAIKIN | 5EN0704B | 1,960 | R-410A | 63 MBH | 80.0/67.0 | 60.3/57.1 | 24" H X 32" L | |
| EX AHU-3 | DAIKIN | 5EN1204B | 2,390 | R-410A | 96 MBH | 78.7/64.7 | 52.8/50.9 | 21" H X 39" L | |

BASE BID: CONDENSING UNITS AS SCHEDULED ABOVE WITH R-410A REFRIGERANT
ALTERNATE #1: CONDENSING UNITS ABOVE TO BE USED WITH EITHER REFRIGERANT R32 OR R454B. PROVIDE WITH REFRIGERANT MONITORS IN COIL SECTIONS TO SHUT THE SYSTEM OFF IN THE EVENT OF A LEAK DETECTION (REQUIRED BY ASHRAE 15 FOR A2L REFRIGERANTS).

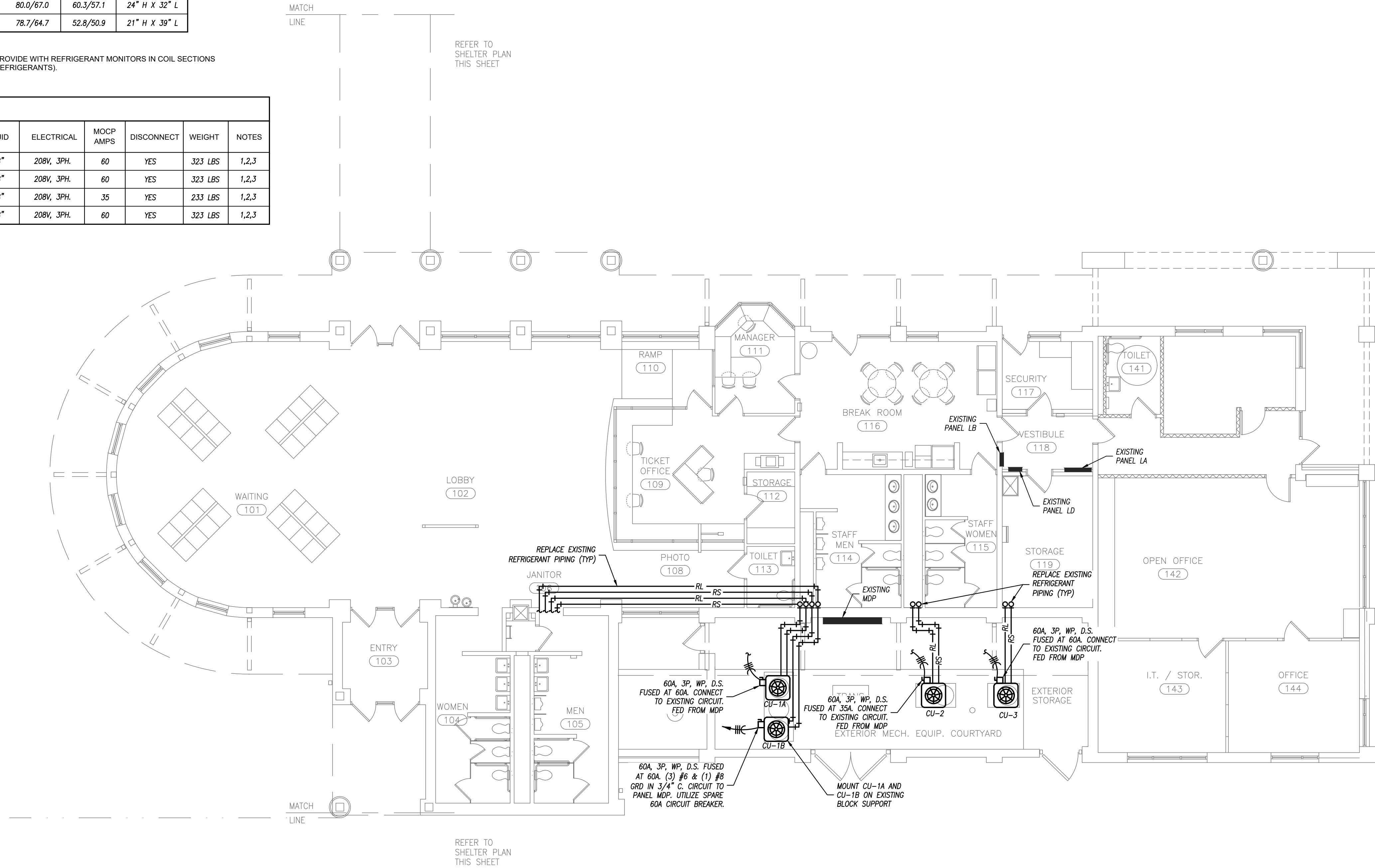
| CONDENSING UNIT SCHEDULE | | | | | | | | | | | | |
|--------------------------|--------------|--------------|--------------|----------------|---------|---------|--------|------------|------------|------------|---------|-------|
| PLAN MARK | MANUFACTURER | MODEL NUMBER | NOMINAL SIZE | TOTAL CAPACITY | AMBIENT | SUCTION | LIQUID | ELECTRICAL | MOCAP AMPS | DISCONNECT | WEIGHT | NOTES |
| CU-1A | DAIKIN | DX14XA0903A | 7.5 TONS | 96 MBH | 105 | 1-3/8" | 5/8" | 208V, 3PH. | 60 | YES | 323 LBS | 1,2,3 |
| CU-1B | DAIKIN | DX14XA0903A | 7.5 TONS | 96 MBH | 105 | 1-3/8" | 5/8" | 208V, 3PH. | 60 | YES | 323 LBS | 1,2,3 |
| CU-2 | DAIKIN | DX13SA0603 | 5 TONS | 56 MBH | 105 | 7/8" | 3/8" | 208V, 3PH. | 35 | YES | 233 LBS | 1,2,3 |
| CU-3 | DAIKIN | DX14XA0903A | 7.5 TONS | 96 MBH | 105 | 1-3/8" | 5/8" | 208V, 3PH. | 60 | YES | 323 LBS | 1,2,3 |

- NOTES LEGEND
- PROVIDE TXV VALVE, SERVICE VALVES, AND REFRIGERANT ACCUMULATOR AT SUCTION LINE
 - PROVIDE COIL HAIL GUARDS
 - VERIFY EXACT REFRIGERANT LINE SIZES WITH MANUFACTURER

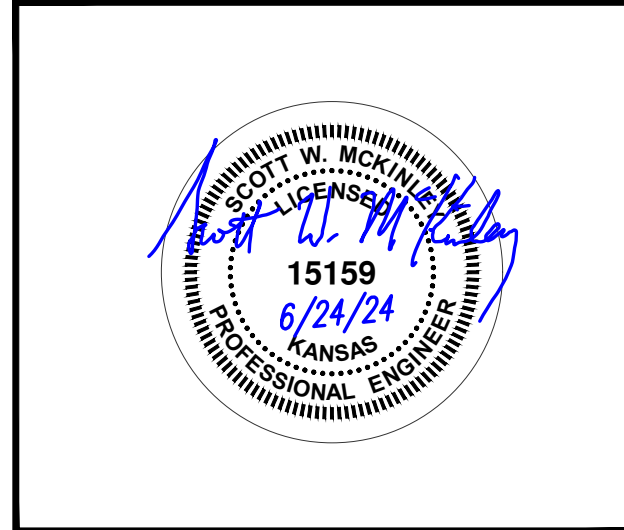


NORTH MECH ROOM FLOOR PLAN - ME
1/8" = 1'-0"

SOUTH MECH ROOM FLOOR PLAN - ME
1/8" = 1'-0"



FLOOR PLAN - ME
1/8" = 1'-0"



TOPEKA METROPOLITAN TRANSIT AUTHORITY AC REPLACEMENT
820 SE QUINCY STREET TOPEKA, KS

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SHEET TITLE:
HVAC PLAN

DATE: **6/24/24** PKMR PROJECT: **24.137**

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