

| Drawing Index                              |  |
|--|--|
| SHEET #                                    | SHEET NAME   |
| GENERAL<br>G1.0                            | COVER SHEET  |
| MECHANICAL<br>M1.0<br>M2.0<br>M3.0<br>M4.0 | MECHANICAL LEGEND<br>MECHANICAL ROOM PLAN<br>MECHANICAL SCHEMATICS<br>MECHANICAL DETAILS |
| ELECTRICAL<br>E1.0<br>E2.0                 | ELECTRICAL LEGEND<br>MECHANICAL ROOM - ELECTRICAL - POWER PLAN                           |

## GENERAL INFORMATION

### GOVERNING REGULATIONS

|   |      |
|---|------|
| KENTUCKY BUILDING CODE .....                | 2018 |
| INTERNATIONAL MECHANICAL CODE.....          | 2015 |
| INTERNATIONAL ENERGY CONSERVATION CODE..... | 2012 |
| KENTUCKY PLUMBING CODE.....                 | 2020 |
| NATIONAL ELECTRICAL CODE NFPA 70.....       | 2014 |
| SPRINKLER SYSTEMS NFPA 13.....              | 2010 |

### PROJECT DESCRIPTION

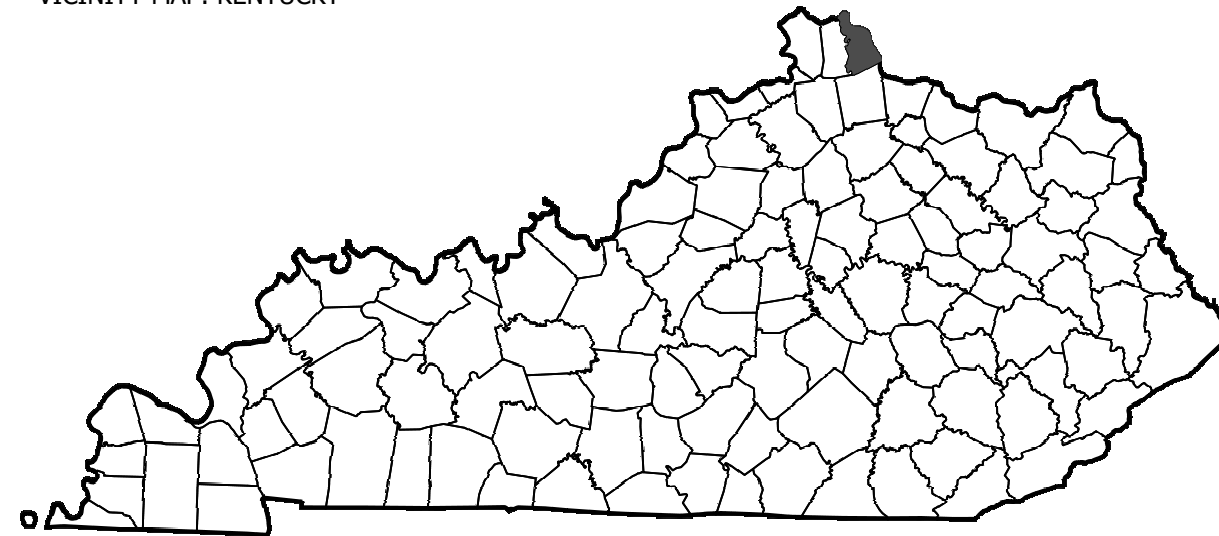
THIS PROJECT CONSISTS OF THE RELOCATION OF STEAM TO HOT WATER HEAT EXCHANGER AND CONDENSATE PUMP, REPLACEMENT OF TWO STEAM CONTROL VALVES, REMOVAL OF A STEAM HOT WATER HEATER, AND THE DISCONNECT AND ABANDONMENT OF AN AIR COMPRESSOR.

### GENERAL NOTES

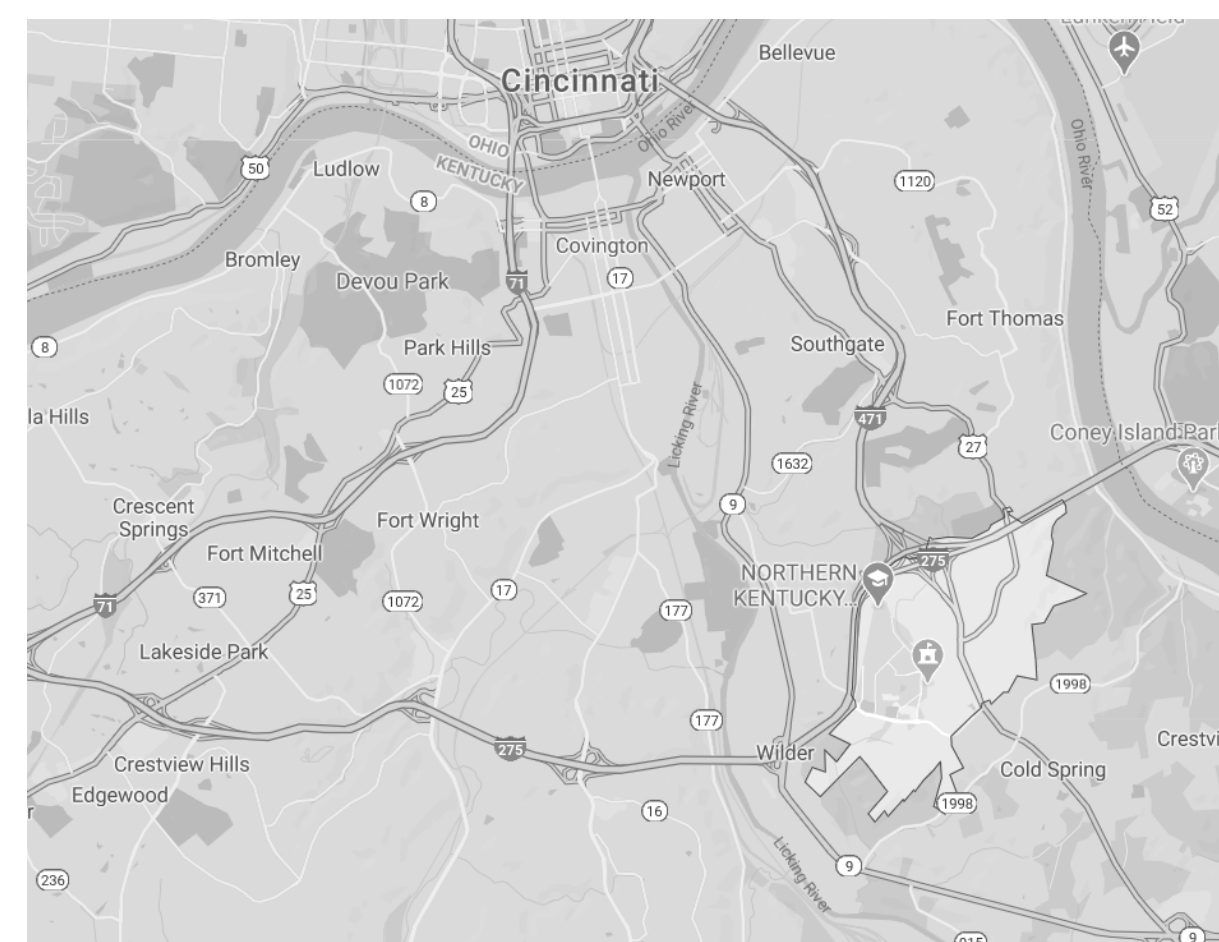
1. THE CURRENT CONTRACT IS TO BE MANAGED BY A GENERAL CONTRACTOR. REFER TO GENERAL AND SPECIAL CONDITIONS FOR WORKING HOURS, SCHEDULE, PARKING, SHIPPING AND RECEIVING, AND ADDITIONAL REQUIREMENTS.
2. ALL WORK SHALL CONFORM TO NORTHERN KENTUCKY UNIVERSITY STANDARDS. THE CONTRACTOR IS TO REVIEW STANDARDS AS LISTED AT <https://inside.nku.edu/campusplanning/design-standards.html> AND INCLUDE ALL WORK REQUIRED FOR CONFORMANCE WITHIN THE BID.

### PROJECT LOCATION

VICINITY MAP: KENTUCKY



VICINITY MAP: HIGHLAND HEIGHTS



VICINITY MAP: NKU ALBRIGHT HALL



# ALBRIGHT HALL CONDENSATE PUMP AND HX RELOCATION

NORTHERN KENTUCKY UNIVERSITY  
KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099

CONSTRUCTION DOCUMENTS  
3/30/21

CLIENT PROJECT #: NKU-35-2021  
NKU PROJECT MANAGER: BOB FOX



BUILDING SCIENCE LEADERSHIP

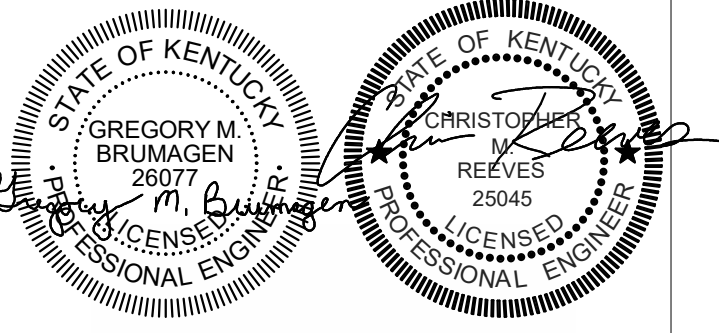
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## CONSTRUCTION DOCUMENTS



ALBRIGHT HALL CONDENSATE PUMP AND HX RELOCATION

NORTHERN KENTUCKY UNIVERSITY  
KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099

COVER SHEET

|               |             |
|---------------|-------------|
| CLIENT JOB #: | NKU-19-0016 |
| DATE:         | 3/29/21     |
| DRAWN:        | SLS         |
| CHECKED:      | CMR         |

### REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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G1.0

**MECHANICAL GENERAL NOTES**

- A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILING, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS, THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- I WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- J ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- K ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- L INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
- M LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- N ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- O COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- P INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- Q SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- R ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- S THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- T WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- U ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISE OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- V DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- W VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEERS PRIOR TO INSTALLATION.
- X WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

**MECHANICAL DEMOLITION NOTES**

- A HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.
- C ALL OUTGAGES SHALL BE SCHEDULED THROUGH THE NKU PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTGAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

**MECHANICAL PHASING NOTES**

- A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BEAR ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

**MECHANICAL HAZARDOUS MATERIALS NOTES**

- A THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
- D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

**ABBREVIATIONS**

|        |  |
|--------|--|
| AC     | ALTERNATING CURRENT  |
| ADJ    | ADJUSTABLE   |
| AFF    | ABOVE FINISHED FLOOR   |
| AFR    | ABOVE FINISHED ROOF  |
| AFUE   | ANNUAL FUEL UTILIZATION EFFICIENCY   |
| AHU    | AUTHORITY HAVING JURISDICTION  |
| AMP    | AMPERE (AMP, AMPS)   |
| ANSI   | AMERICAN NATIONAL STANDARD INSTITUTE                                       |
| APD    | AIR PRESSURE DROP  |
| ASHRAE | AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS |
| ATU    | AIR TERMINAL UNIT  |
| AVG    | AVERAGE  |
| BAS    | BUILDING AUTOMATION SYSTEM   |
| BHP    | BREAK HORSEPOWER   |
| BTU    | BRITISH THERMAL UNIT   |
| CAP    | CAPACITY   |
| CAV    | CONSTANT AIR VOLUME  |
| CD     | CONDENSATE DRAIN   |
| CFM    | CUBIC FEET PER MINUTE  |
| C.I.   | CAST IRON  |
| CLG    | CEILING  |
| CLR    | CLEAR  |
| CO     | CARBON MONOXIDE  |
| CO2    | CARBON DIOXIDE   |
| COND   | CONDENS (-ER, -ING, -ATION, -ATE)  |
| CONT   | CONTINU (-ED, -OUS)  |
| CU FT  | CUBIC FEET   |
| CU IN  | CUBIC INCHES   |
| CV     | VALVE FLOW COEFFICIENT   |
| dB     | DECIBEL  |
| DB     | DRY BULB   |
| DBT    | DRY BULB TEMPERATURE   |
| DC     | DIRECT CURRENT   |
| DD     | DUCT SMOKE DETECTOR  |
| DDC    | DIRECT DIGITAL CONTROLS  |
| DEG    | DEGREE (-S)  |
| DIA    | DIAMETER (-S)  |
| DN     | DOWN   |
| DWG    | DRAWING  |
| EAT    | ENTERING AIR TEMPERATURE   |
| EC     | ELECTRICAL CONTRACTOR  |
| ELEV   | ELEVA (-TION, -TOR)  |
| ENGR   | ENGINEER   |
| EQ     | EQUAL  |
| ESP    | EXTERNAL STATIC PRESSURE   |
| ETR    | EXISTING TO REMAIN   |
| EVAP   | EVAPORAT (-E, -ING, -ED, -OR, -ION)  |
| EWT    | ENTERING WATER TEMPERATURE   |
| EXP    | EXPANSION  |
| EXT    | EXTERIOR   |
| FA     | FREE AREA  |

**ABBREVIATIONS (CONTINUED)**

|       |   |
|-------|---|
| FD    | FIRE DAMPER   |
| FL    | FLOOR   |
| FLO   | FULL LOAD AMPS  |
| FOB   | FLAT ON BOTTOM  |
| FOT   | FLAT ON TOP   |
| FPC   | FIRE PROTECTION CONTRACTOR                            |
| FPM   | FEET PER MINUTE                                       |
| FPS   | FEET PER SECOND                                       |
| FT    | FEET OR FOOT  |
| FUT   | FUTURE  |
| FV    | FACE VELOCITY   |
| GA    | GAGE/GAUGE  |
| GAL   | GALLON (-S)   |
| GC    | GENERAL CONTRACTOR                                    |
| GPD   | GALLONS PER DAY                                       |
| GPH   | GALLONS PER HOUR                                      |
| GPM   | GALLONS PER MINUTE                                    |
| GR    | GRAINS  |
| H     | HUMIDITY  |
| HD    | HEAD  |
| HG    | MERCURY   |
| HORIZ | HORIZONTAL  |
| HP    | H (-ORSEPOWER, -EAT PUMP)                             |
| HR    | HOOR (-S)   |
| HVAC  | HEATING, VENTILATING, & AIR-CONDITIONING              |
| Hz    | HERTZ   |
| ID    | I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION) |
| IN    | INCH (-ES)  |
| INSUL | INSULAT (-ED, -ION)                                   |
| INT   | INTER (-IOR, -ERVAL)                                  |
| IPS   | IRON PIPE SIZE  |
| kW    | KILOWATT  |
| kWh   | KILOWATT HOUR   |
| LAT   | LEAVING AIR TEMPERATURE                               |
| LBS   | POUNDS  |
| LF    | LINEAR FEET/FOOT                                      |
| LRA   | LOCKED ROTOR AMPS                                     |
| LWT   | LEAVING WATER TEMPERATURE                             |
| MAX   | MAXIMUM   |
| MBH   | BTU PER HOUR [THOUSANDS]                              |
| MCA   | MINIMUM CIRCUIT AMPS                                  |
| MFG   | MANUFACTURER  |
| MIN   | MIN (-IMUM, -UTE)                                     |
| MISC  | MISCELLANEOUS   |
| MOCp  | MAXIMUM OVERCURRENT PROTECTION [AMPS]                 |
| MTG   | MOUNTING  |
| N/A   | NOT APPLICABLE  |
| NC    | NOISE CRITERIA OR NORMALLY CLOSED                     |
| NEBB  | NATIONAL ENVIRONMENTAL BALANCING BUREAU               |
| NIC   | NOT IN CONTRACT                                       |

**ABBREVIATIONS (CONTINUED)**

|       |   |
|-------|---|
| NO    | NORMALLY OPEN OR NUMBER                     |
| NTS   | NOT TO SCALE                                |
| OC    | ON CENTER                                   |
| OD    | OUTSIDE DI (-AMETER, -MENSION)              |
| OCFI  | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED  |
| OFCI  | OWNER FURNISHED, CONTRACTOR INSTALLED       |
| OFOI  | OWNER FURNISHED, OWNER INSTALLED            |
| OR    | OPEN RECEPACLE                              |
| OZ    | OUNCE (-S)                                  |
| PC    | PLUMBING CONTRACTOR                         |
| PD    | PRESSURE DROP                               |
| PH    | PHASE [ELECTRICAL]                          |
| PLBG  | PLUMBING                                    |
| PPM   | PARTS PER MILLION                           |
| PRS   | PRESSURE REDUCING STATION                   |
| PRV   | PRESSURE REDUCING VALVE (STEAM, WATER, GAS) |
| PSF   | POUNDS PER SQUARE FOOT                      |
| PSI   | POUNDS PER SQUARE INCH                      |
| PSIG  | PPSI GAUGE                                  |
| RH    | RELATIVE HUMIDITY [%]                       |
| RLA   | RUNNING LOAD AMPS                           |
| RPM   | REVOLUTIONS PER MINUTE                      |
| SD    | SMOKE DAMPER                                |
| SP    | STATIC PRESSURE                             |
| SQ    | SQUARE                                      |
| SQ FT | SQUARE FEET OR FOOT                         |
| SQ IN | SQUARE INCH OR INCHES                       |
| TAB   | TESTING AND BALANCING                       |
| TBD   | TO BE DETERMINED                            |
| TE    | TOP ELEVATION                               |
| TEMP  | TEMPERATURE                                 |
| TSP   | TOTAL STATIC PRESSURE                       |
| TYP   | TYPICAL                                     |
| UNO   | UNLESS NOTED OTHERWISE                      |
| V     | VOLT (-AGE, -S)                             |
| VAR   | VARI (-ABLE, -IES)                          |
| VAV   | VARIABLE AIR VOLUME                         |
| VEL   | VELOCITY                                    |
| VFD   | VARIABLE FREQUENCY DRIVE                    |
| W     | WATT (-AGE, -S)                             |
| WB    | WET BULB                                    |
| WBT   | WET BULB TEMPERATURE                        |
| WPD   | WATER PRESSURE DROP                         |
| WT    | WEIGHT                                      |
| W/    | WITH  |
| W/O   | WITHOUT                                     |
| %     | PERCENT                                     |
| ΔP    | DIFFERENTIAL PRESSURE                       |
| ΔT    | TEMPERATURE DIFFERENCE                      |
| ℄     | CENTERLINE                                  |

**MECHANICAL PIPING LEGEND**

|  |   |
|--|---|
|  | PIPE ELBOW TURNING UP                             |
|  | PIPE ELBOW TURNING DOWN                           |
|  | PIPE TEE; CONNECTION ON TOP                       |
|  | PIPE TEE; CONNECTION ON BOTTOM                    |
|  | PIPE CAP  |
|  | CONDENSATE DRAIN                                  |
|  | CHILLED WATER SUPPLY/RETURN                       |
|  | CONDENSER WATER SUPPLY/RETURN                     |
|  | DUAL TEMP. WATER SUPPLY/RETURN                    |
|  | HIGH PRESSURE STEAM CONDENSATE                    |
|  | HIGH PRESSURE STEAM; (#) DENOTES PRESSURE         |
|  | HEATING WATER SUPPLY/RETURN                       |
|  | LOW PRESSURE STEAM CONDENSATE                     |
|  | LOW PRESSURE STEAM; (#) DENOTES PRESSURE          |
|  | DOMESTIC COLD WATER                               |
|  | DOMESTIC HOT WATER                                |
|  | STEAM CONDENSATE PUMPED DISCHARGE                 |
|  | STEAM VENT PIPING                                 |
|  | PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM    |
|  | EXISTING PIPING - (XXX) DENOTES SYSTEM            |
|  | ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM  |
|  | TWO-WAY CONTROL VALVE                             |
|  | THREE-WAY CONTROL VALVE                           |
|  | AUTOMATIC AIR VENT (AAV)                          |
|  | MANUAL AIR VENT (MAV)                             |
|  | MANUAL BALANCING VALVE (BV)                       |
|  | BALL VALVE  |
|  | GATE VALVE  |
|  | TRIPLE DUTY VALVE (TDV)                           |
|  | STRAINER  |
|  | MANUAL ISOLATION VALVE                            |
|  | GLOBE VALVE                                       |
|  | OS&Y (GATE) VALVE                                 |
|  | PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) |
|  | AUTO-FLOW CONTROL VALVE                           |
|  | CHECK VALVE                                       |
|  | DOUBLE CHECK VALVE ASSEMBLY                       |
|  | FLEXIBLE PIPE CONNECTION                          |
|  | FLOW METER (VENTURI)                              |
|  | PIPING UNION                                      |
|  | FLOW SWITCH                                       |
|  | PRESSURE SWITCH                                   |
|  | TAMPER SWITCH                                     |
|  | THERMOMETER                                       |
|  | PETE'S PLUG; TEMPERATURE/PRESSURE PORT            |
|  | STEAM TRAP  |

**GENERAL SYMBOLS**

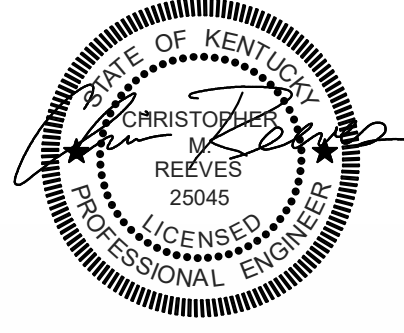
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|--|---|
|  | TAGGED NOTE DESIGNATOR                    |
|  | REVISION TRIANGLE                         |
|  | ROOM TAG                                  |
|  | EQUIPMENT TAG                             |
|  | POINT OF CONNECTION / CONNECT TO EXISTING |
|  | POINT OF DEMOLITION                       |

| APPLICABLE BUILDING CODES                       |               |      |
|---|---------------|------|
| APPLICABLE BUILDING CODES                       | DOCUMENT      | YEAR |
| ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES | ANSI A117.1   | 2009 |
| FIRE SPRINKLER CODE                             | NFPA 13       | 2013 |
| INTERNATIONAL BUILDING CODE (IBC)               | STATE EDITION | 2018 |
| INTERNATIONAL ENERGY CONSERVATION CODE (IECC)   | STATE EDITION | 2012 |
| INTERNATIONAL FIRE CODE (IFC)                   | STATE EDITION | 2015 |
| INTERNATIONAL FUEL GAS CODE (IFGC)              | STATE EDITION | 2015 |
| INTERNATIONAL MECHANICAL CODE (IMC)             | STATE EDITION | 2015 |
| INTERNATIONAL PLUMBING CODE (IPC)               | STATE EDITION | 2020 |
| INTERNATIONAL EXISTING BUILDING CODE (IEBC)     | STATE EDITION | 2009 |
| NATIONAL ELECTRIC CODE (NEC)                    | NFPA 70       | 2017 |
| NATIONAL FIRE ALARM & SIGNALING CODE            | NFPA 72       | 2013 |
| UNIFORM STATEWIDE BUILDING CODE                 |               | 2018 |



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**CONSTRUCTION DOCUMENTS**



**ALBRIGHT HALL CONDENSATE PUMP AND HX RELOCATION**

NORTHERN KENTUCKY UNIVERSITY  
KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099

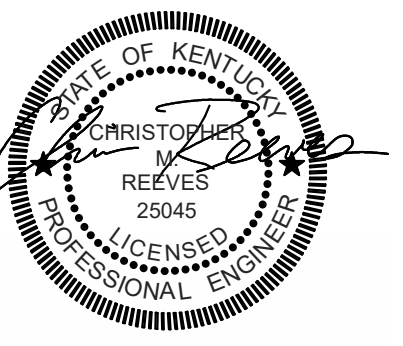
**MECHANICAL LEGEND**

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| CLIENT JOB #: | NKU-19-0016 |
| DATE:         | 3/29/21     |
| DRAWN:        | SLS         |
| CHECKED:      | CMR         |

**REVISIONS**

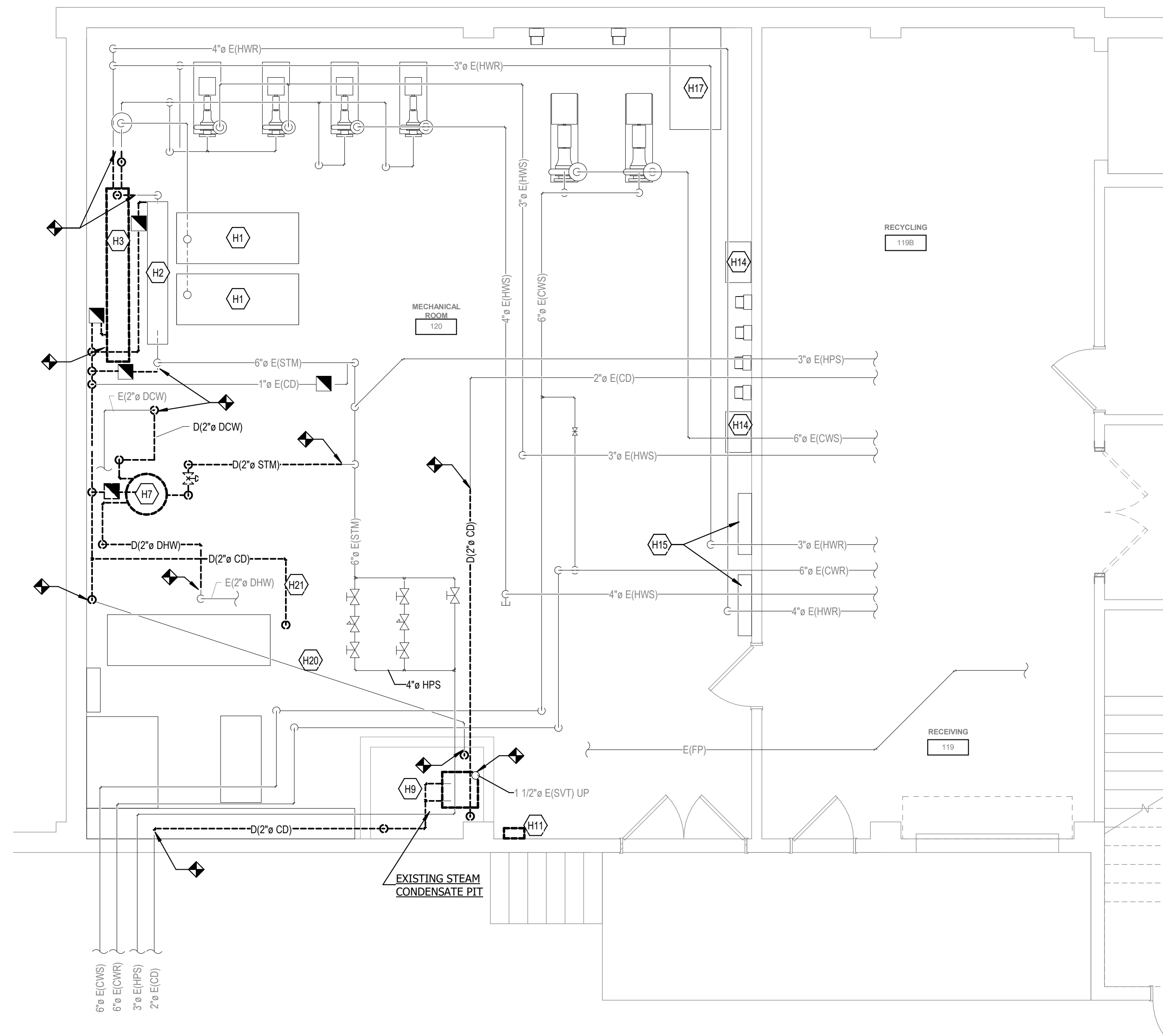
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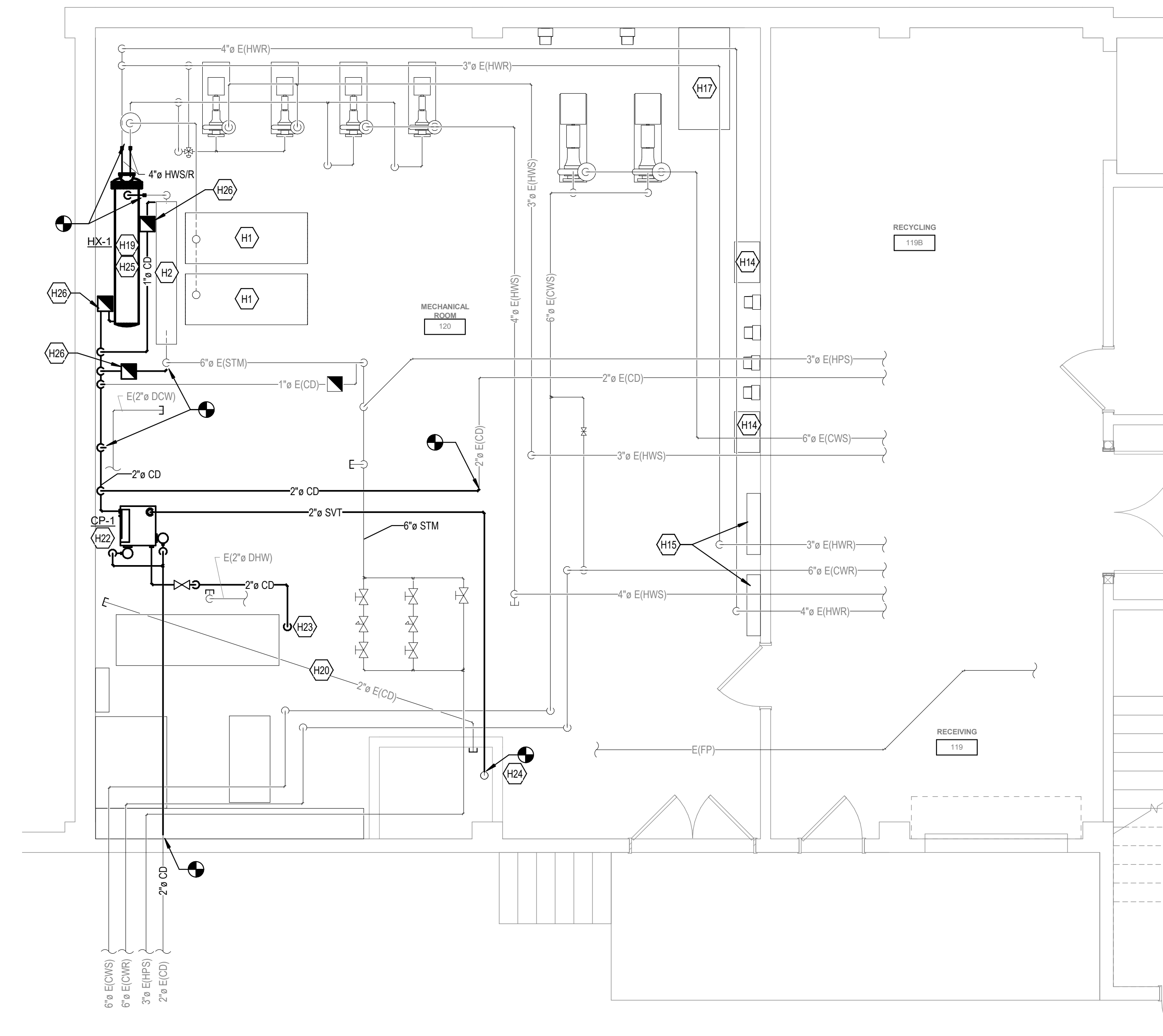
**TAGGED NOTES**

- H1 EXISTING 30" x 90" HOT WATER EXPANSION TANKS LOCATED IN STRUCTURE TO REMAIN.
- H2 EXISTING STEAM PRESSURE REDUCING STATION TO REMAIN. REFER TO PIPING SCHEMATIC ON SHEET M3.0. CONTROL VALVES TO BE REPLACED.
- H3 HEAT EXCHANGER SHALL BE RAISED TO ALLOW CONDENSATE TO DRAIN TO NEW CONDENSATE PUMP. AS AN ALTERNATE BID, THE HEAT EXCHANGER SHALL BE REPLACED.
- H7 DEMOLISH EXISTING STEAM FIRED WATER HEATER, CONTROLS, VALVES, AND RELATED PIPING. REMOVE PIPING BACK TO MAIN AND CAP.
- H9 DEMOLISH EXISTING STEAM CONDENSATE RETURN PUMP, CONTROLS, VALVES AND RELATED PIPING LOCATED IN PIT. EXISTING VENT UP TO REMAIN AND SHALL BE RECONNECTED TO NEW CONDENSATE PUMP VENT PIPING.
- H11 EXISTING CONTROL CABINET TO BE DEMOLISHED.
- H14 EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- H15 EXISTING TEMPERATURE CONTROL PANEL TO REMAIN.
- H17 EXISTING AIR COMPRESSOR SHALL BE DISCONNECTED AND ABANDONED IN PLACE.
- H19 NEW HEAT EXCHANGER ELEVATION TO BE RAISED 3 FEET FROM EXISTING EXCHANGER LOCATION. PROVIDE NECESSARY SUPPORT STRUCTURE. FIELD VERIFY FINAL ELEVATION.
- H20 EXISTING 2" CONDENSATE DRAIN RUNS UNDER SLAB TO CONDENSATE PUMP PIT. DISCONNECT BOTH ENDS WHERE ACCESSIBLE AND CAP. PIPE SHALL BE ABANDONED IN PLACE.
- H21 DEMOLISH EXISTING CONDENSATE DRAIN SPILLING TO FLOOR DRAIN.
- H22 NEW CONDENSATE RECEIVER TANK, PUMP, AND CONTROL PANEL. RECONNECT CONDENSATE PIPING TO ENSURE FUNCTIONALITY.
- H23 CONDENSATE TO FLOOR DRAIN. DRAIN VALVE SHALL NORMALLY BE CLOSED.
- H24 RECONNECT VENT FROM NEW CONDENSATE RECEIVER TANK TO EXISTING VENT PIPE.
- H25 NEW HEAT EXCHANGER. TO BE BID AS AN ALTERNATE. PIPING AND VALVES TO MOUNT NEW SUPPORT STRUCTURE. CMTA TO PROVIDE HEAT EXCHANGER.
- H26 EXISTING CONDENSATE TRAPS TO BE RAISED. PIPE LPC TO CONDENSATE RECEIVER.



**1 MECHANICAL ROOM DEMOLITION PLAN**

SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'



**2 MECHANICAL ROOM NEW WORK PLAN**

SCALE: 1/4" = 1'-0"  
0 1' 2' 4' 8' 12' 16'

ALBRIGHT HALL CONDENSATE PUMP AND HX RELOCATION

NORTHERN KENTUCKY UNIVERSITY  
KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099

MECHANICAL ROOM PLAN

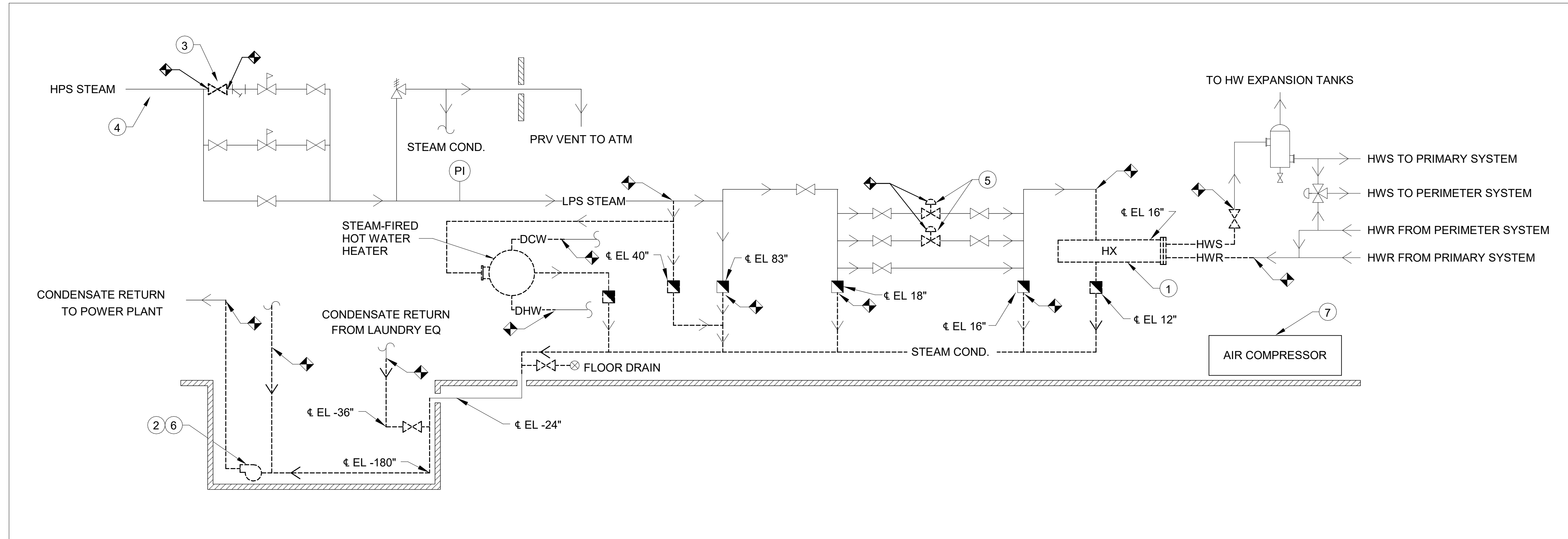
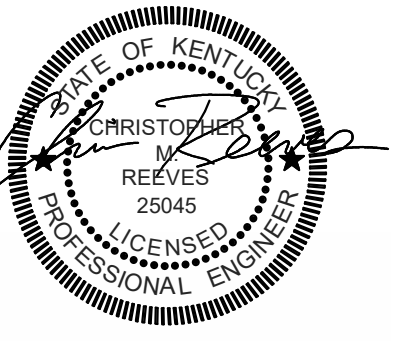
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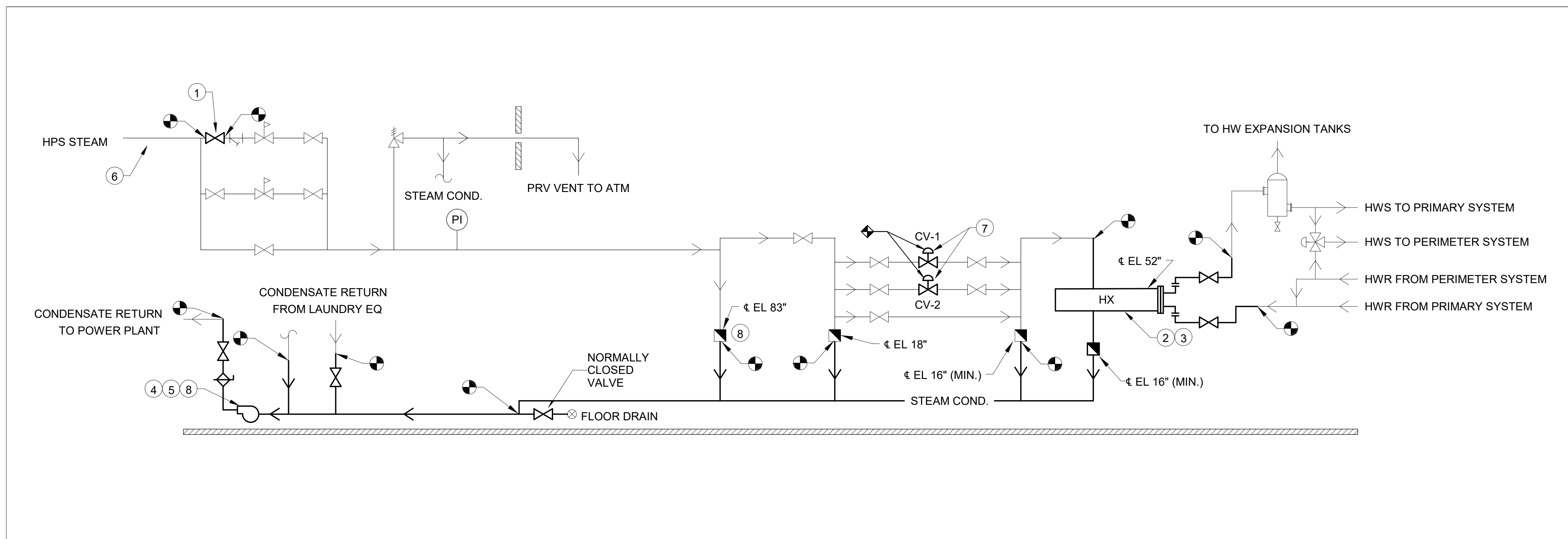
1 STEAM & CONDENSATE MODIFICATIONS - DEMOLITION  
SCALE: NONE

MECHANICAL DEMO NOTES

1. SEE ALTERNATE. EXISTING HEAT EXCHANGER TO BE REMOVED AND REPLACED WITH A NEW HEAT EXCHANGER.
2. CONDENSATE PUMP TO BE REPLACED WITH NEW PUMP AT GROUND LEVEL. DEMO PIPING AS REQUIRED.
3. REPLACE LEAKING ISOLATION VALVE.
4. ISOLATE BUILDING STEAM SYSTEM AT REGENTS HALL ISOLATION VALVE DURING DEMOLITION AND CONSTRUCTION WORK.
5. REPLACE PNEUMATIC VALVES.

ELECTRICAL DEMO NOTES

6. RE-ROUTE EXISTING CONDUIT TO NEW PUMP LOCATION.
7. DISCONNECT POWER FROM AIR COMPRESSOR. DEMO POWER BACK TO PANEL.



2 STEAM & CONDENSATE MODIFICATIONS - NEW WORK  
SCALE: NONE

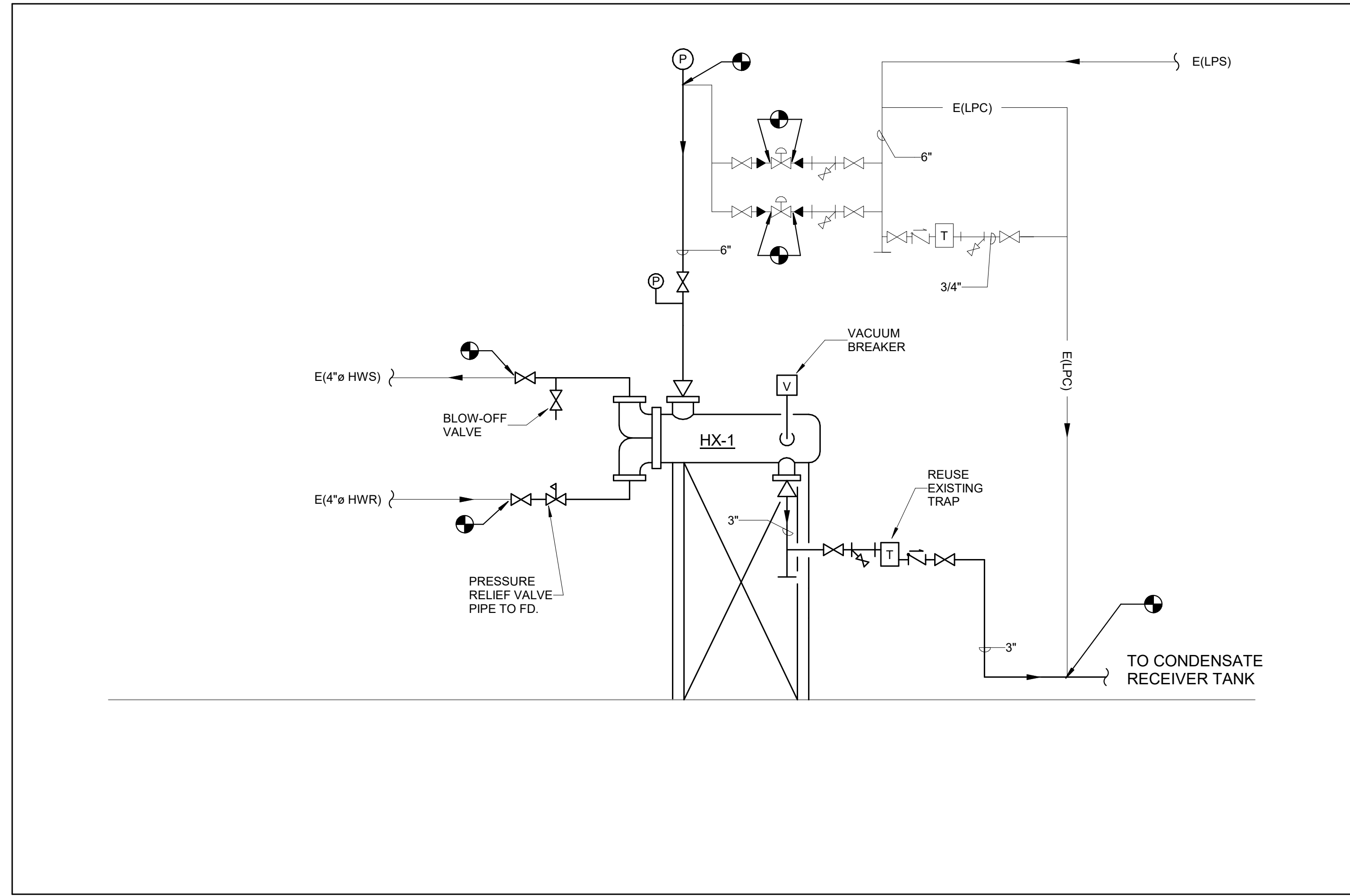
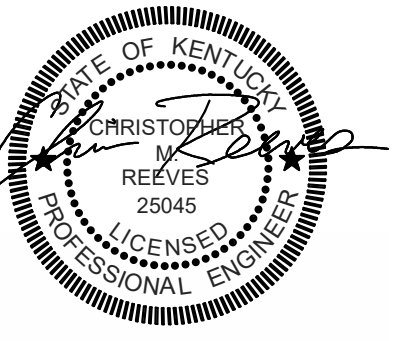
MECHANICAL TAGGED NOTES

1. REPLACE LEAKING ISOLATION VALVE.
2. NEW HEAT EXCHANGER ELEVATION TO BE RAISED 3 FEET FROM EXISTING EXCHANGER LOCATION. FIELD VERIFY FINAL ELEVATION. PROVIDE NECESSARY SUPPORT STRUCTURE.
3. NEW HEAT EXCHANGER, TO BE BID AS AN ALTERNATE AND TO BE PROVIDED BY CMTA.
4. NEW CONDENSATE PUMP TO BE INSTALLED AT GROUND LEVEL.
5. INSULATE ALL NEW PIPING AND EQUIPMENT TO MATCH EXISTING STANDARDS. TYPICAL.
6. ISOLATE BUILDING STEAM SYSTEM AT REGENTS HALL ISOLATION VALVE DURING DEMOLITION AND CONSTRUCTION WORK.
7. NEW ELECTRONICALLY CONTROLLED VALVES TIED TO THE BUILDING MANAGEMENT SYSTEM.
8. THIS STEAM TRAP MAY REMAIN AT THIS ELEVATION.

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3 STEAM PIPING SCHEMATIC (MP/LP PRV AND S-W HX)  
SCALE: NONE

| CONDENSATE PUMP AND RECEIVER |                |              |         |     |                          |     |      |       |         |                          |            |         |
|------------------------------|----------------|--------------|---------|-----|--------------------------|-----|------|-------|---------|--------------------------|------------|---------|
| MARK                         | MANUFACTURER   | MODEL #      | MODEL # | GPM | PUMPS                    |     |      |       |         | RECEIVER CAPACITY (GALS) | INLET SIZE | REMARKS |
|                              |                |              |         |     | DISCHARGE PRESSURE (PSI) | HP  | RPM  | PHASE | VOLTAGE |                          |            |         |
| CP-1                         | BELL & GOSSETT | 223CC DUPLEX | 616PF   | 22  | 30.00                    | 1.5 | 3500 | 3     | 480 V   | 23.0                     | 2"         | ALL     |

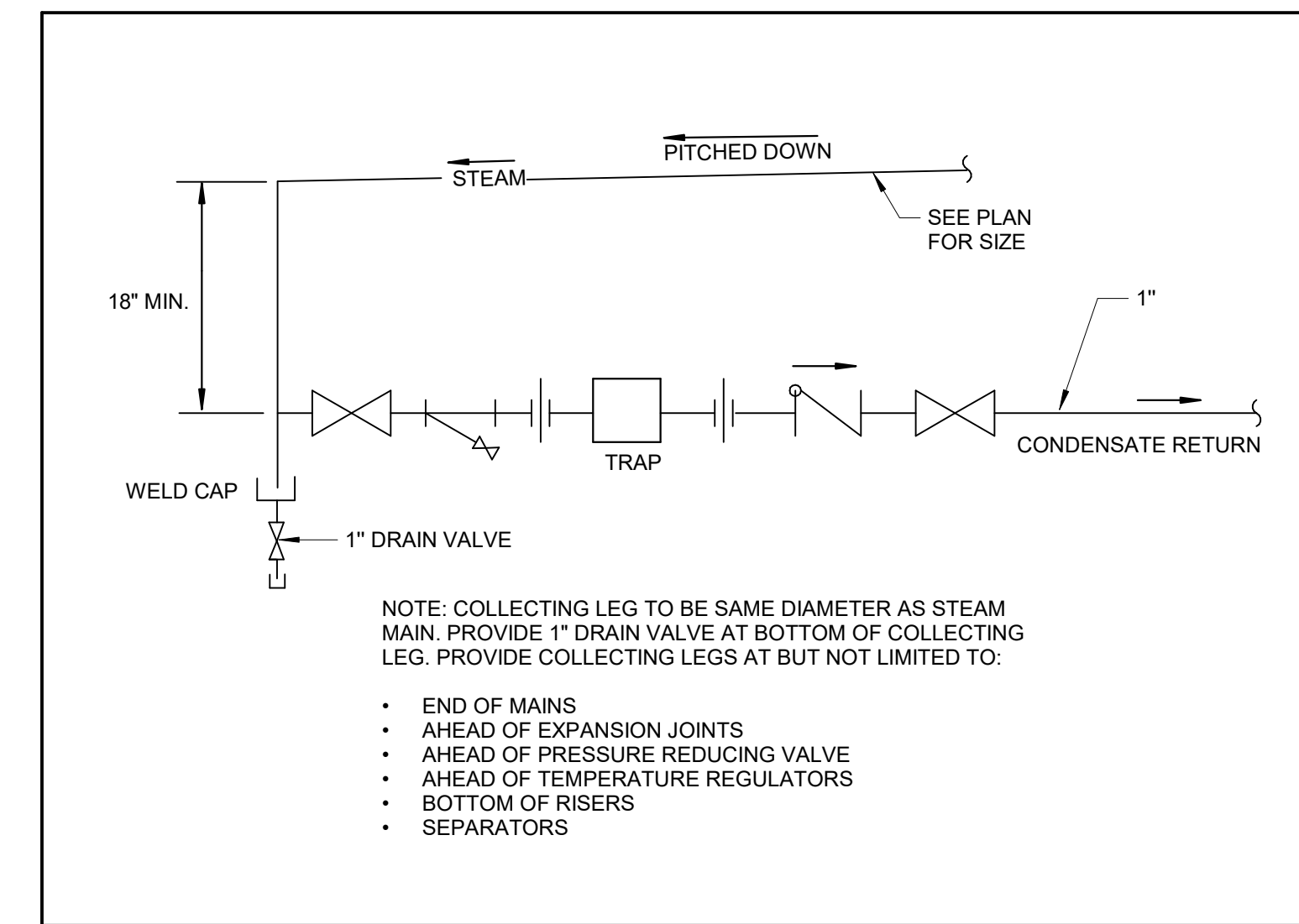
REMARKS:  
1. ACCEPTABLE MANUFACTURERS INCLUDE HOFFMAN, ARMSTRONG.  
2. SINGLE POINT POWER CONNECTION.

| STEAM CONTROL VALVE SCHEDULE |                    |                  |           |                |                       |                |        |                  |                      |                            |                |                    |         |
|------------------------------|--------------------|------------------|-----------|----------------|-----------------------|----------------|--------|------------------|----------------------|----------------------------|----------------|--------------------|---------|
| MARK                         | MANUFACTURER       | MODEL            | ACTUATOR  | TYPE           | VALVE ACTION          | SERVICE        | SIZE   | CAPACITY (LB/HR) | STEAM INLET PRESSURE | ACTUAL PRESSURE DROP (PSI) | PRESSURE PILOT | SPRING RANGE       | REMARKS |
| CV-1                         | SCHNEIDER ELECTRIC | VS-8223-596-5-14 | MS61-7203 | 2-WAY STRAIGHT | FAILS NORMALLY CLOSED | HEAT EXCHANGER | 4"     | 3600             | 15                   | 4.01                       | YES            | 2-10 VDC ; 4-20 mA |         |
| CV-2                         | SCHNEIDER ELECTRIC | VS-8223-596-5-12 | MS61-7203 | 2-WAY STRAIGHT | FAILS NORMALLY CLOSED | HEAT EXCHANGER | 2-1/2" | 1800             | 15                   | 6.71                       | YES            | 2-10 VDC ; 4-20 mA |         |

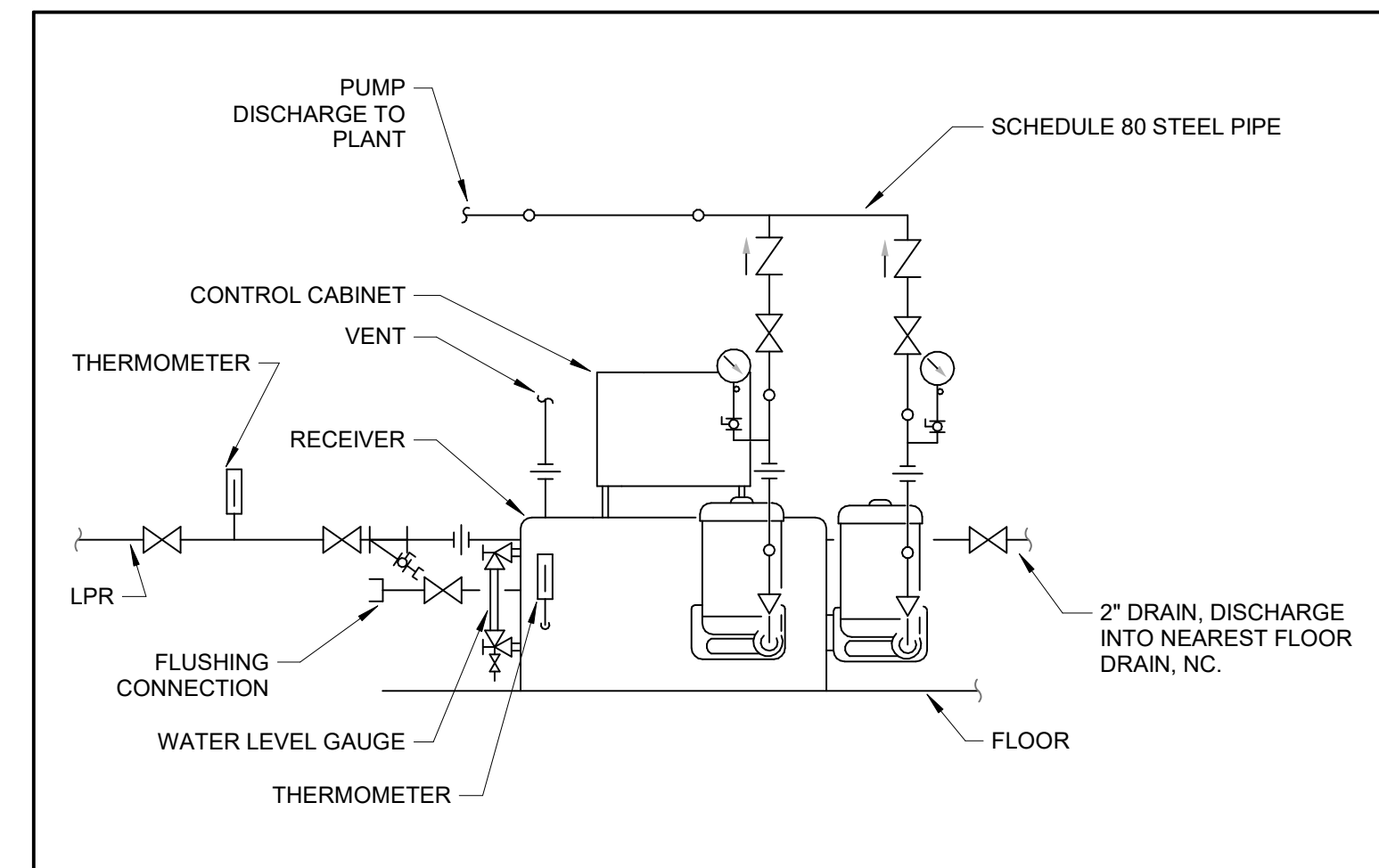
| SHELL & TUBE HEAT EXCHANGER |                |           |              |                    |               |             |        |                      |               |                       |              |           |          |          |                |         |
|-----------------------------|----------------|-----------|--------------|--------------------|---------------|-------------|--------|----------------------|---------------|-----------------------|--------------|-----------|----------|----------|----------------|---------|
| MARK                        | MANUFACTURER   | MODEL #   | TYPE         | SERVICE            | DIAMETER (IN) | LENGTH (IN) | PASSES | TOTAL HEATING (MBTU) | SHELL (STEAM) |                       | TUBE (WATER) |           |          |          |                | REMARKS |
|                             |                |           |              |                    |               |             |        |                      | LBS/HR        | ENTERING PRESS. (PSI) | GPM          | P.D. (FT) | EWT (°F) | LWT (°F) | FOLLING FACTOR |         |
| HX-1                        | BELL & GOSSETT | QSU-147-2 | SHELL & TUBE | BUILDING HOT WATER | 14            | 93          | 2      | 5.4                  | 5548          | 2                     | 220          | 6.50      | 140      | 180      | 0.0005         | ALL     |

REMARKS:  
1. ACCEPTABLE MANUFACTURERS INCLUDE TACO, ARMSTRONG.  
2. K-HEADER ARRANGEMENT.  
3. COPPER TUBES.

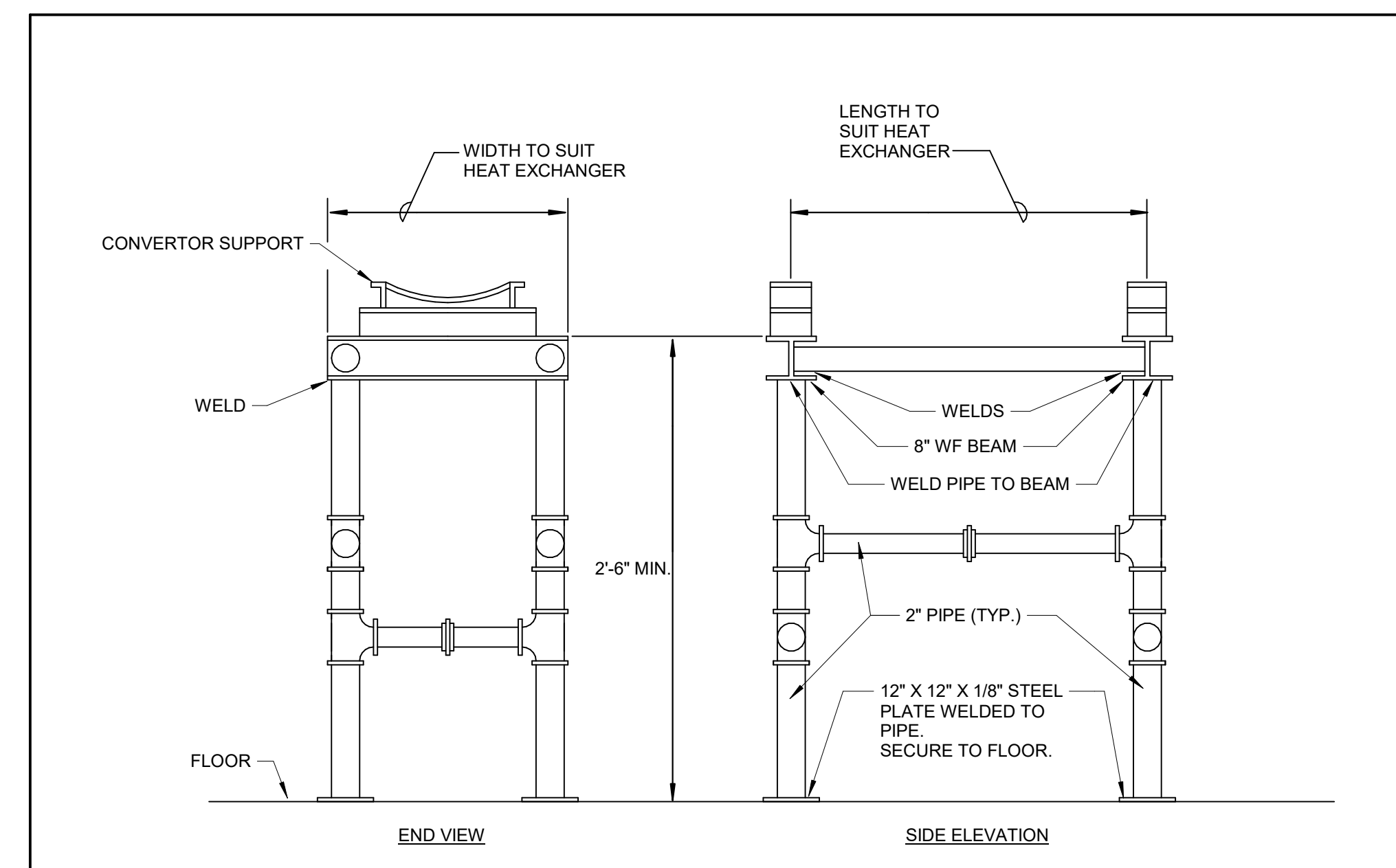
| CONTROLS POINTS LIST             |             |    |    |    |    |          |
|----------------------------------|-------------|----|----|----|----|----------|
| Point Description                | Object Name | DI | DO | AI | AO | Override |
| Low Pressure Steam Pressure      | LPSTM-P     |    |    |    | X  |          |
| Low Pressure Steam - Valve - 1/3 | LPSTM-VLV-1 |    |    |    | X  | X        |
| Low Pressure - Valve - 2/3       | LPSTM-VLV-2 |    |    |    | X  | X        |
| Condensate Pump CP-1A Status     | CNDP-1A-S   | X  |    |    |    |          |
| Condensate Pump CP-1B Status     | CNDP-1B-S   | X  |    |    |    |          |
| Condensate Flow Meter            | CNDP-F      |    |    |    | X  |          |
| Condensate Pump Status Alarm     | CNDP-AL     |    |    | X  |    |          |
| High Level Alarm                 | COND-A      |    |    | X  |    |          |



1 TYPICAL STEAM END OF MAIN DRIP LEG DETAIL  
SCALE: NONE



2 CONDENSATE PUMP - PIPING CONNECTIONS SCHEMATIC  
SCALE: NONE



4 H.W. HEAT EXCHANGER SUPPORT DETAIL  
SCALE: NONE

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ELECTRICAL GENERAL NOTES

- A EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
B ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
C WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC.
D CONTRACTOR SHALL FOLLOW ALL DESIGN RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
E ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE PROVIDED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE NOTED AT EACH PROPOSER'S DISCRETION.
F INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
G ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
H WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
I DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
J OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
K MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNLESS MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNLESS NOTED.
L INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
M DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
N THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
O ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.
P ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.
R WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
S THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).
T COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
U CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2" DIMENSION OF 2'X4" TILE AND ON CENTERLINE OR A QUARTER POINT ON 4" DIMENSION.
V ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
W CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
X PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT.
Y DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
Z THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
AA WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
AB WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
AC COORDINATE THE LOCATION OF DRAINS, ELECTRICAL, GAS, OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE RESPONSIBILITY OF THE CONTRACTOR.
AD ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT. UNLESS OTHERWISE NOTED BY THE ENGINEER IN WRITING.
AE ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTIONS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INsofar AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
AF NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
AG ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
AH ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
AI WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
AJ REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.
AK FLUSH OR RECESSED TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLANS, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
AL AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK. FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN PHASE TO PHASE.
AM THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.
AN ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
AO INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
AP WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY BACKBOX AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
AQ JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
AR ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
AS DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
AT NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
AU ALL ITEMS HAVING KEYS LOCKS/OPERATORS SHALL HAVE KEYS LOCKS/OPERATORS. ALL KEYS SHALL MATCH THE OWNER'S EXISTING KEYS/WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
AV REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

ELECTRICAL DEMOLITION NOTES

- A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALF-TONE LINES INDICATE EXISTING ITEMS TO REMAIN.
B THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT UPSTREAM OR DOWNSTREAM ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPORTION TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
D REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
F COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
G PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
H CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
I UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
J EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
K CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
L DEVICES INDICATED WITH AN "X" SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
M ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
N CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

DESCRIPTION MOUNTING HEIGHT SYMBOL

Table with columns: DESCRIPTION, MOUNTING HEIGHT, SYMBOL. Includes sections for LIGHTING CONTROLS, POWER OUTLETS, and FIRE ALARM.

FIRE ALARM

Table listing fire alarm components such as MAIN CONTROL PANEL, REMOTE L.C.D. FIRE ALARM ANNUNCIATOR, LOCAL OPERATOR CONSOLE, PHOTO-ELECTRIC SMOKE DETECTOR, etc.

DESCRIPTION MOUNTING HEIGHT SYMBOL

Table with columns: DESCRIPTION, MOUNTING HEIGHT, SYMBOL. Includes sections for LIGHTING FIXTURES AND EQUIPMENT, MISCELLANEOUS, and OVERHEAD PAGING.

MISCELLANEOUS

Table listing miscellaneous items like CONDUIT CONCEALED IN WALLS, DUPLEX RECEPTACLE, NON-REVERSING MOTOR STARTER SNAP SWITCH, etc.

OVERHEAD PAGING

Table listing overhead paging equipment like PAGING SPEAKER: CEILING, PAGING SPEAKER W/ VOLUME CONTROL, PAGING SPEAKER: WALL, etc.

CLOCKS

Table listing clock equipment like TYPICAL CLOCK MOUNTING HEIGHTS, ANALOG CLOCK: SINGLE FACE, ANALOG CLOCK: DUAL FACE, etc.

LINETYPE LEGEND

Table defining line types for EXISTING, DEMOLISHED, and NEW items.

DESCRIPTION MOUNTING HEIGHT SYMBOL

Table with columns: DESCRIPTION, MOUNTING HEIGHT, SYMBOL. Includes sections for ABBREVIATIONS and SPECIAL OUTLETS.

SPECIAL OUTLETS

Table listing special outlets like FLOORBOX, AS SCHEDULED, POKE-THRU, AS SCHEDULED, WALLBOX, AS SCHEDULED, etc.

TELEVISION

Table listing television equipment like TELEVISION HEADEND (SPLITTERS/AMPLIFIERS/DISTRIBUTION), TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, etc.

OVERHEAD PAGING

Table listing overhead paging equipment like PAGING SPEAKER: CEILING, PAGING SPEAKER W/ VOLUME CONTROL, PAGING SPEAKER: WALL, etc.

CLOCKS

Table listing clock equipment like TYPICAL CLOCK MOUNTING HEIGHTS, ANALOG CLOCK: SINGLE FACE, ANALOG CLOCK: DUAL FACE, etc.

AV SYSTEMS

Table listing AV systems equipment like PROJECTOR WITH MOUNT (CEILING OR WALL AS INDICATED), LOCAL SOUND SPEAKER: CEILING, WIRELESS MICROPHONE ANTENNA, etc.

PANEL FURNITURE

Table listing panel furniture equipment like PANEL FURNITURE DUPLEX RECEPTACLE, PANEL FURNITURE DATA/VOICE OUTLET, POWER CONNECTION TO PANEL FURNITURE, etc.

DESCRIPTION MOUNTING HEIGHT SYMBOL

Table with columns: DESCRIPTION, MOUNTING HEIGHT, SYMBOL. Includes sections for SECURITY PANIC ALARM and SECURITY INTERCOM.

SECURITY PANIC ALARM

Table listing security panic alarm equipment like PANIC ALARM BUTTON, PANIC ALARM ANNUNCIATOR, PANIC ALARM STROBE, etc.

SECURITY INTERCOM

Table listing security intercom equipment like AUTODIVIDED INTERCOM STATION, AUTODIVIDED INTERCOM STATION, SECURITY ACCESS CONTROL, etc.

SECURITY ACCESS CONTROL

Table listing security access control equipment like DOOR ALARM, DOOR POSITION SWITCH, MAGNETIC LOCK(S), ELECTRIC LOCKSET, etc.

SECURITY CCTV VIDEO SURVEILLANCE

Table listing security CCTV video surveillance equipment like CCTV CAMERA: CEILING MOUNT DOME, CCTV CAMERA: WALL MOUNT DOME, CCTV CAMERA: WALL MOUNT DOME, etc.

SECURITY INTRUSION DETECTION

Table listing security intrusion detection equipment like MOTION DETECTOR (WALL OR CEILING MOUNT), GLASS BREAK SENSOR (WALL OR CEILING MOUNT), LOCAL SOUNDER, etc.

DATA / VOICE

Table listing data/voice equipment like DATA OUTLET, VOICE OUTLET, COMBINATION OUTLET, SLASH THROUGH ANY DEVICE, etc.

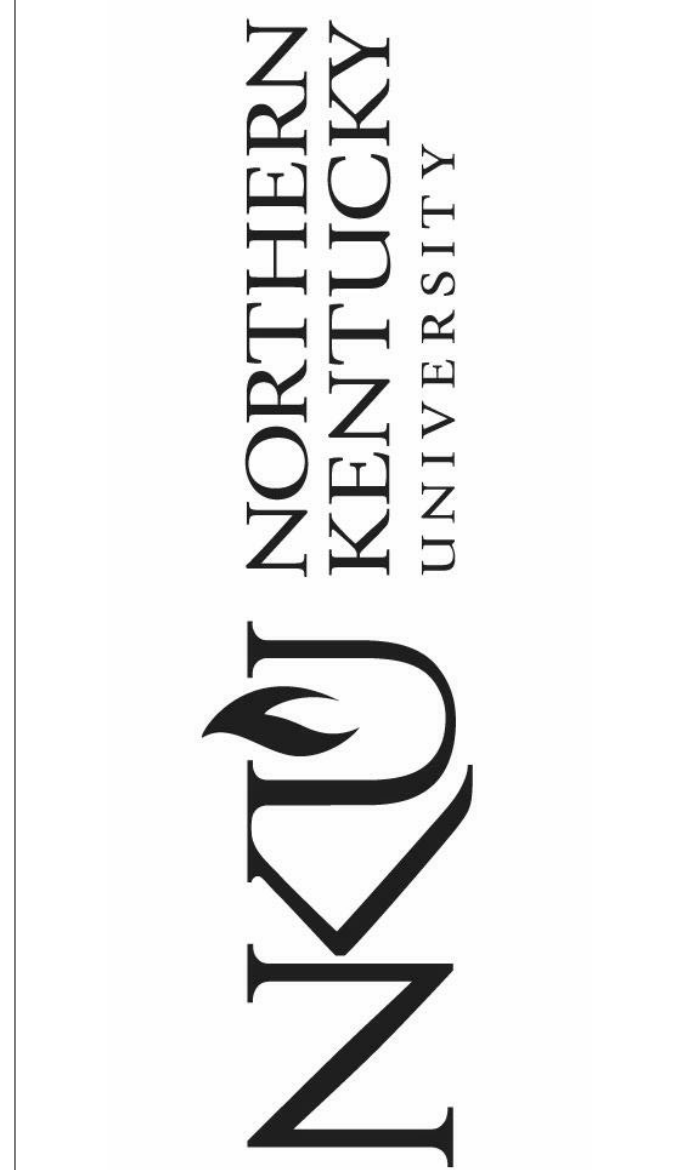
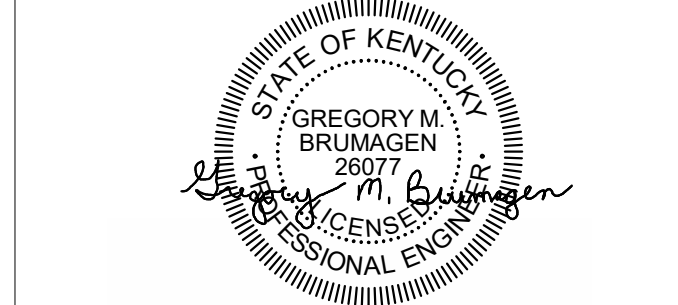
TELECOMMUNICATIONS SYSTEM BACKBOARD

Table listing telecommunication system backboard equipment like TELECOMMUNICATIONS SYSTEM BACKBOARD, WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR 1 DATA OUTLET, etc.



2429 Members Way Lexington, KY 40504 T: 859 253.0892 F: 859 231.8357

CONSTRUCTION DOCUMENTS

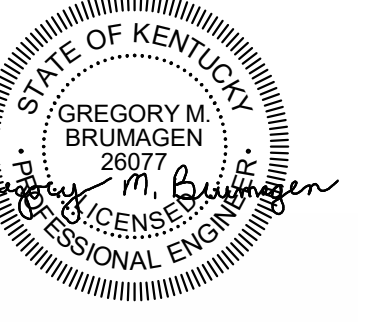


ALBRIGHT HALL CONDENSATE PUMP AND HX RELOCATION NORTHERN KENTUCKY UNIVERSITY KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099 ELECTRICAL LEGEND

Table with fields: CLIENT JOB #, DATE, DRAWN, CHECKED.

Table with columns: REVISIONS, description of changes.

E1.0



ALBRIGHT HALL CONDENSATE PUMP AND HX RELOCATION

NORTHERN KENTUCKY UNIVERSITY  
KENTON DRIVE, HIGHLAND HEIGHTS, KY 41099

MECHANICAL ROOM - ELECTRICAL - POWER PLAN

|               |             |
|---------------|-------------|
| CLIENT JOB #: | NKU-19-0016 |
| DATE:         | 3/29/21     |
| DRAWN:        | ILA         |
| CHECKED:      | GMB         |

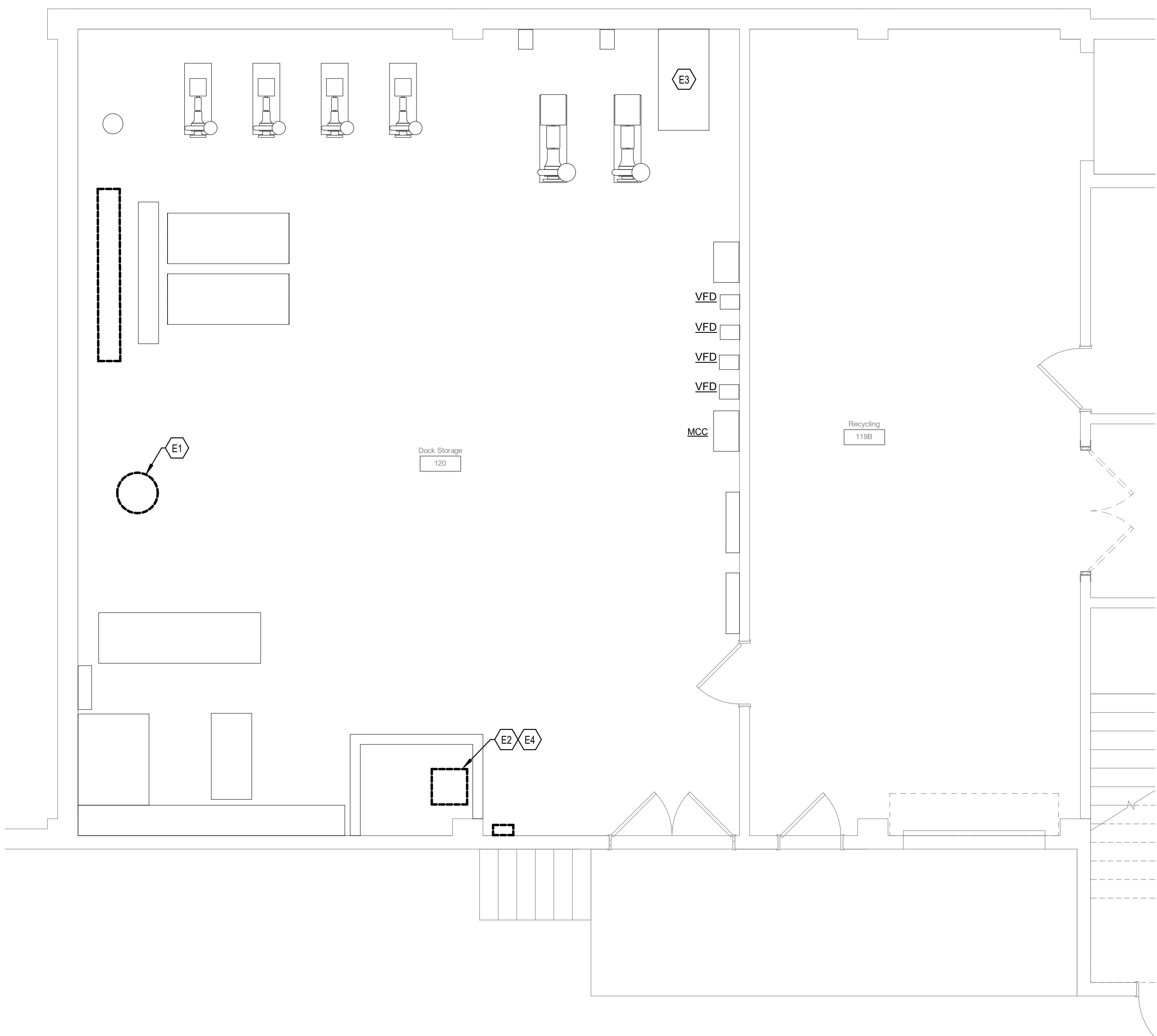
REVISIONS

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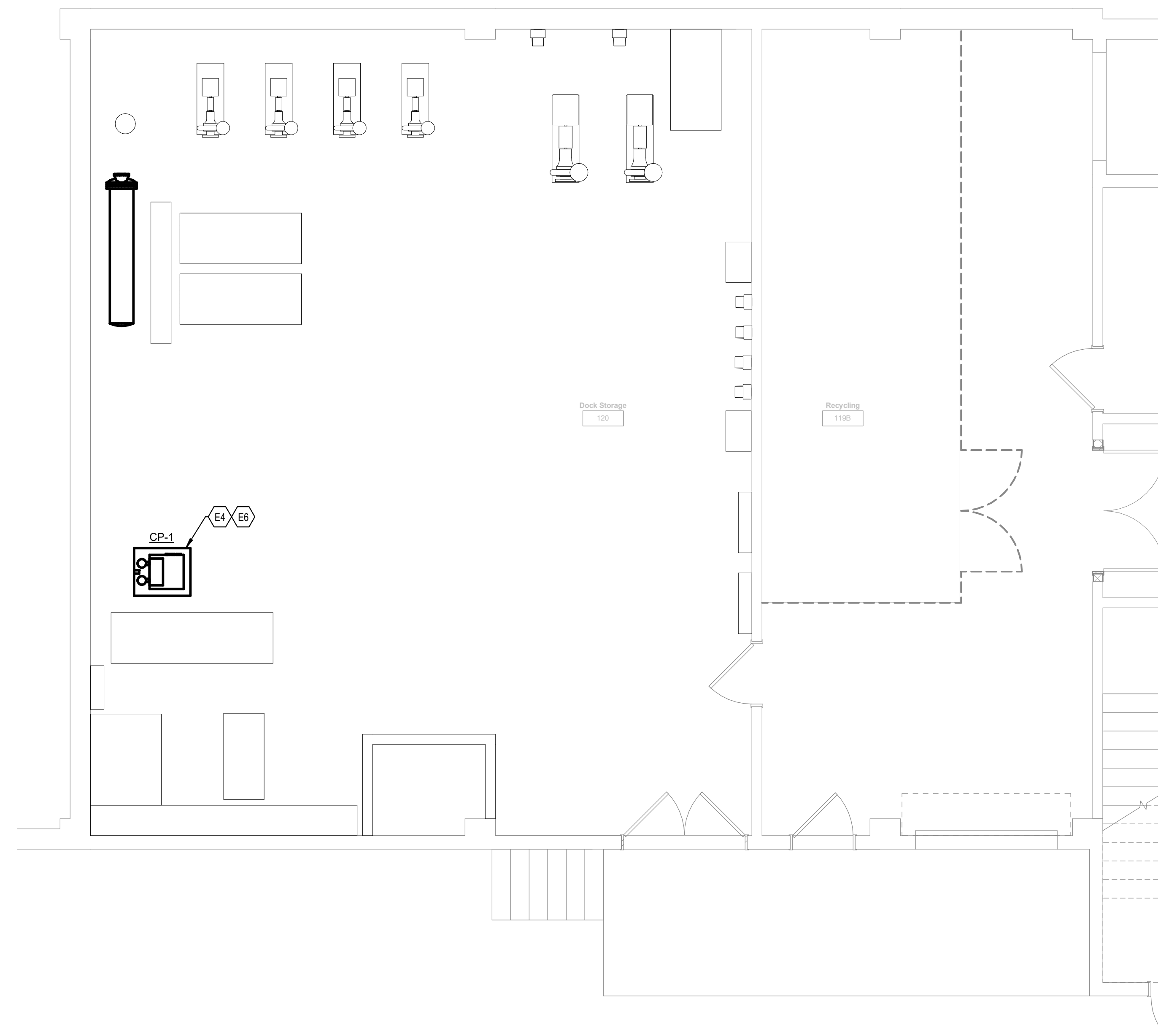
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**TAGGED NOTES**

- E1 DEMOLISH EXISTING CIRCUIT CONDUIT AND WIRE SERVING THE WATER HEATER BACK TO SOURCE.
- E2 DEMOLISH EXISTING CIRCUITS CONDUIT AND WIRE SERVING THE EXISTING CONDENSATE PUMPS. DEMOLISH TO ABOVE PIT LEVEL. CIRCUITS TO BE REUSED AND EXTENDED TO THE NEW CP-1 LOCATION. REFER TO NEW WORK PLAN FOR NEW LOCATION.
- E3 DEMOLISH EXISTING AIR COMPRESSOR CIRCUIT CONDUIT AND WIRE BACK TO CLOSEST JUNCTION BOX. SAFE OFF AND LABEL WITH CIRCUIT INFORMATION AND BREAKER SIZE.
- E4 NEW CONDENSATE PUMP. EXTEND EXISTING CIRCUIT(S) TO NEW LOCATION. REFER TO TAG NOTE E2 ON DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- E6 EXTEND EXISTING STEAM CONDENSATE PUMP CONTROLS CIRCUIT FROM JUNCTION BOX TO NEW CONTROL LOCATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



2 MECHANICAL ROOM - POWER - DEMOLITION



1 MECHANICAL ROOM - POWER - NEW WORK

