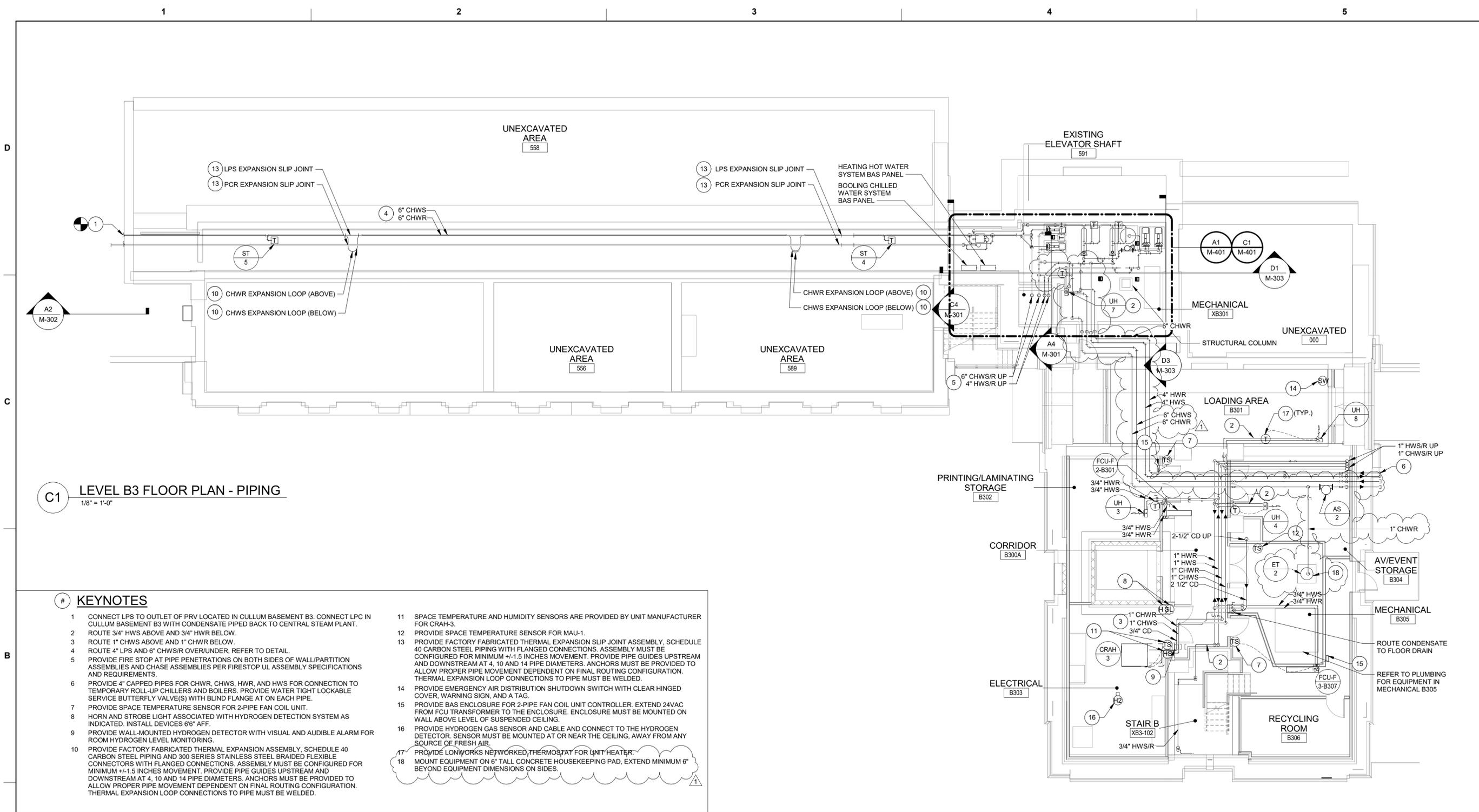


06/16/2023	DATE
ISSUED VIA AMENDMENT	DESCRIPTION
1	MARK

DESIGNED BY: N. SLEEM	ISSUE DATE: 07 MARCH 2023
DRAWN BY: D. GORDON	SOLICITATION NO.: W91ZDS-19-R0014
CHECKED BY: D. GORDON	FILE NUMBER: W91ZDS-19-C-0031-L
SUBMITTED BY: FILE NAME: ANSI'D	

BUILDINGS 605/607 RENOVATION - LINCOLN HALL  
 LEVEL B3 FLOOR PLAN - PIPING

SHEET ID  
**MP101**



**C1** LEVEL B3 FLOOR PLAN - PIPING  
 1/8" = 1'-0"

**KEYNOTES**

- CONNECT LPS TO OUTLET OF PRV LOCATED IN CULLUM BASEMENT B3. CONNECT LPC IN CULLUM BASEMENT B3 WITH CONDENSATE PIPED BACK TO CENTRAL STEAM PLANT.
- ROUTE 3/4" HWS ABOVE AND 3/4" HWR BELOW.
- ROUTE 1" CHWS ABOVE AND 1" CHWR BELOW.
- ROUTE 4" LPS AND 6" CHWS/R OVER/UNDER. REFER TO DETAIL.
- PROVIDE FIRE STOP AT PIPE PENETRATIONS ON BOTH SIDES OF WALL/PARTITION ASSEMBLIES AND CHASE ASSEMBLIES PER FIRESTOP UL ASSEMBLY SPECIFICATIONS AND REQUIREMENTS.
- PROVIDE 4" CAPPED PIPES FOR CHWR, CHWS, HWR, AND HWS FOR CONNECTION TO TEMPORARY ROLL-UP CHILLERS AND BOILERS. PROVIDE WATER TIGHT LOCKABLE SERVICE BUTTERFLY VALVE(S) WITH BLIND FLANGE AT ON EACH PIPE.
- PROVIDE SPACE TEMPERATURE SENSOR FOR 2-PIPE FAN COIL UNIT.
- HORN AND STROBE LIGHT ASSOCIATED WITH HYDROGEN DETECTION SYSTEM AS INDICATED. INSTALL DEVICES 66" AFF.
- PROVIDE WALL-MOUNTED HYDROGEN DETECTOR WITH VISUAL AND AUDIBLE ALARM FOR ROOM HYDROGEN LEVEL MONITORING.
- PROVIDE FACTORY FABRICATED THERMAL EXPANSION ASSEMBLY, SCHEDULE 40 CARBON STEEL PIPING AND 300 SERIES STAINLESS STEEL BRAIDED FLEXIBLE CONNECTORS WITH FLANGED CONNECTIONS. ASSEMBLY MUST BE CONFIGURED FOR MINIMUM +/-1.5 INCHES MOVEMENT. PROVIDE PIPE GUIDES UPSTREAM AND DOWNSTREAM AT 4, 10 AND 14 PIPE DIAMETERS. ANCHORS MUST BE PROVIDED TO ALLOW PROPER PIPE MOVEMENT DEPENDENT ON FINAL ROUTING CONFIGURATION. THERMAL EXPANSION LOOP CONNECTIONS TO PIPE MUST BE WELDED.
- SPACE TEMPERATURE AND HUMIDITY SENSORS ARE PROVIDED BY UNIT MANUFACTURER FOR CRAH-3.
- PROVIDE SPACE TEMPERATURE SENSOR FOR MAU-1.
- PROVIDE FACTORY FABRICATED THERMAL EXPANSION SLIP JOINT ASSEMBLY, SCHEDULE 40 CARBON STEEL PIPING WITH FLANGED CONNECTIONS. ASSEMBLY MUST BE CONFIGURED FOR MINIMUM +/-1.5 INCHES MOVEMENT. PROVIDE PIPE GUIDES UPSTREAM AND DOWNSTREAM AT 4, 10 AND 14 PIPE DIAMETERS. ANCHORS MUST BE PROVIDED TO ALLOW PROPER PIPE MOVEMENT DEPENDENT ON FINAL ROUTING CONFIGURATION. THERMAL EXPANSION LOOP CONNECTIONS TO PIPE MUST BE WELDED.
- PROVIDE EMERGENCY AIR DISTRIBUTION SHUTDOWN SWITCH WITH CLEAR HINGED COVER, WARNING SIGN, AND A TAG.
- PROVIDE BAS ENCLOSURE FOR 2-PIPE FAN COIL UNIT CONTROLLER. EXTEND 24VAC FROM FCU TRANSFORMER TO THE ENCLOSURE. ENCLOSURE MUST BE MOUNTED ON WALL ABOVE LEVEL OF SUSPENDED CEILING.
- PROVIDE HYDROGEN GAS SENSOR AND CABLE AND CONNECT TO THE HYDROGEN DETECTOR. SENSOR MUST BE MOUNTED AT OR NEAR THE CEILING, AWAY FROM ANY SOURCE OF FRESH AIR.
- PROVIDE LONWORKS NETWORKED THERMOSTAT FOR UNIT HEATER.
- MOUNT EQUIPMENT ON 6" TALL CONCRETE HOUSEKEEPING PAD, EXTEND MINIMUM 6" BEYOND EQUIPMENT DIMENSIONS ON SIDES.

**GENERAL NOTES**

- REFER TO M-001 AND M-002 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS, AND SYMBOLS.
- PROVIDE FIRE-STOPPING AT FIRE-RATED PENETRATIONS.
- PROVIDE DRIP PAN FOR PIPING RUNNING IN ELECTRICAL AND TELECOM ROOMS WITH WATER LEAK DETECTOR AND CABLE. INSTALL CABLE IN TRAY IN SERPENTINE PATTERN.
- LOCATE PIPING IN OR AT CEILING UNLESS OTHERWISE INDICATED. BRANCH RUNOUTS TO TERMINAL EQUIPMENT MUST BE MINIMUM 3/4 INCH UNLESS NOTED OTHERWISE.
- PROVIDE PIPING ISOLATION VALVES IN ACCESSIBLE LOCATIONS, AS CLOSE TO MAIN RISERS AND BRANCH TAKE-OFFS AS POSSIBLE.
- CONNECTED PIPING SYSTEMS MUST NOT IMPART ANY WEIGHT TO EQUIPMENT ITSELF, AND VICE VERSA.
- MAINTAIN EQUIPMENT ACCESS CLEARANCES FOR ELECTRICAL, MAINTENANCE, REPAIRS, MOTOR REPLACEMENT, ETC. ON SIDES.
- PROVIDE DUCTED FCUs WITH BOTTOM ACCESS FOR FILTER CHANGES AND MAINTENANCE ACCESS. COORDINATED REQUIRED LEFT HAND/RIGHT HAND SIDE FCU PIPING CONNECTIONS TO MAINTAIN ACCESS.
- PROVIDE FIRE STOP AT PIPE PENETRATIONS ON BOTH SIDES OF WALL/PARTITION ASSEMBLIES AND CHASE ASSEMBLIES PER FIRESTOP UL ASSEMBLY SPECIFICATIONS AND REQUIREMENTS.

