

Date: October 03, 2016
From: 20/10 Engineering

To:
SUBJECT: ADDENDUM NO. 2 TO THE BID DOCUMENTS FOR:

Building 'A' 2019 HVAC Improvements
McHenry County College
8900 US Hwy 14 – Building 'A'
Crystal Lake, IL 60012
Proj. No. 1550-a-18

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated September 6, 2019. Acknowledge receipt of this addendum in the space provided on the Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

SPECIFICATION

1. None.

DRAWINGS

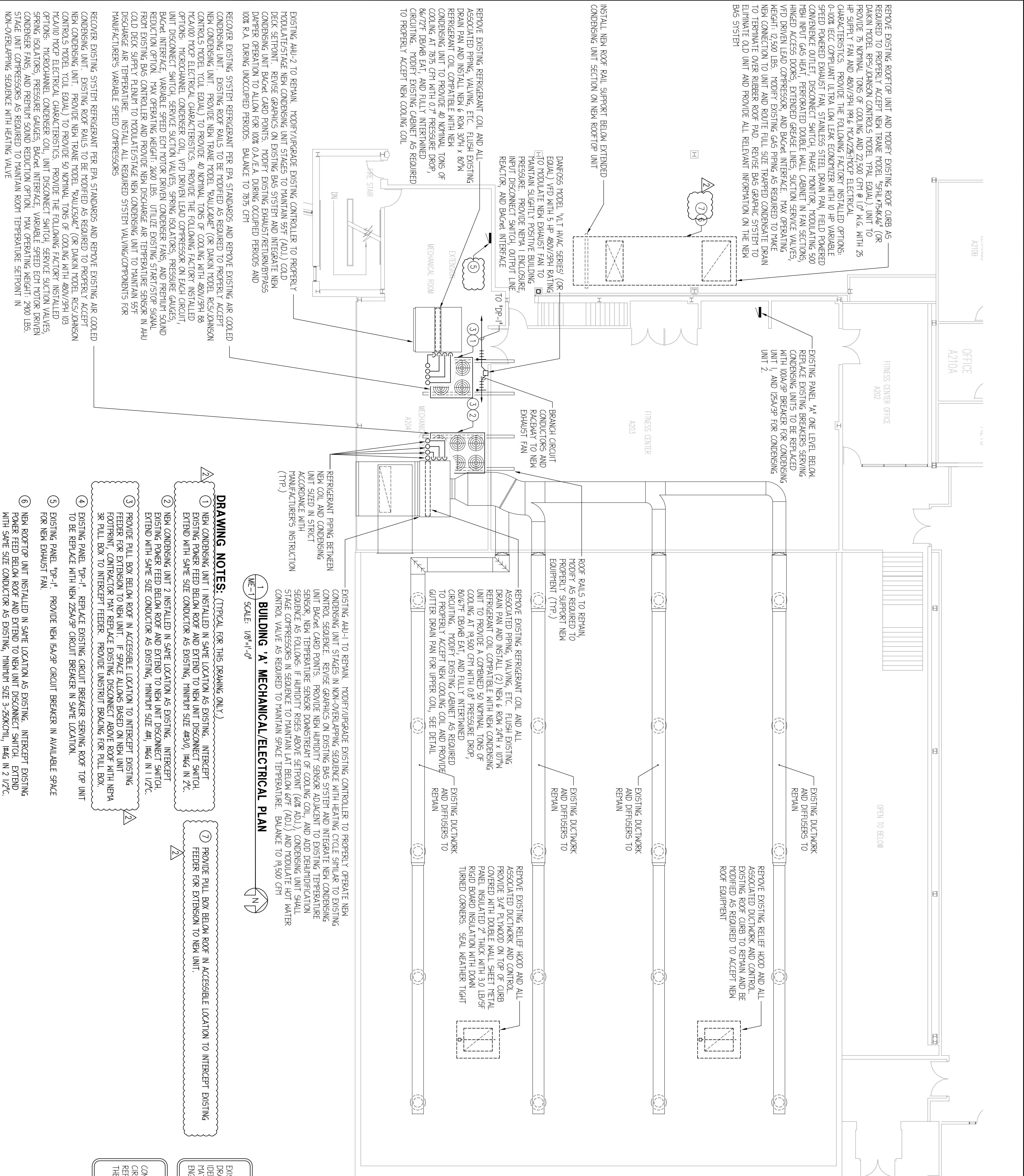
1. Replace Sheet ME-1 with new Sheet ME-1 attached.
2. Add Sheet ME-3 attached.

CLARIFICATION

1. None.

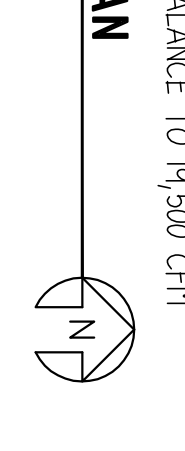
This addendum consists of the following: (1) 8 ½" x 11" pages and (2) revised sheets.

END OF ADDENDUM 2



- RECOVER EXISTING SYSTEM REFRIGERANT PER EPA STANDARDS AND REMOVE EXISTING AIR COOLED CONDENSING UNIT. EXISTING ROOF RAILS TO BE MODIFIED AS REQUIRED TO PROPERLY ACCEPT NEW CONDENSING UNIT. PROVIDE NEW TRANE MODEL 'SALUDAD' (OR DAIKIN MODEL R5J/JOHNSON CONTROL'S MODEL YCAL EQUAL) TO PROVIDE 40 NOMINAL TONS OF COOLING WITH 480V/3PH 3Ø 340/000 TROP ELECTRICAL CHARACTERISTICS. PROVIDE THE FOLLOWING FACTORY INSTALLED OPTIONS: MICROCHANNEL CONDENSER COIL, VFD DRIVEN LEAD COMPRESSOR ON EACH CIRCUIT, UNIT DISCONNECT SWITCH, SERVICE SUCTION VALVES, SPRING ISOLATORS, PRESSURE GAUGES, BACKUP INTERFACE, VARIABLE SPEED ECH MOTOR DRIVEN CONDENSER FANS, AND PREMIUM SOUND REDUCTION OPTION. MAX OPERATING HEIGHT: 2400 LBS. UTILIZE EXISTING START/STOP SIGNAL FROM EXISTING BAS CONTROLLER AND PROVIDE NEW DISCHARGE AIR TEMPERATURE SENSOR IN AHU COLD DECK SUPPLY PLENUM TO MODULATE/STAGE NEW CONDENSING UNIT TO MAINTAIN 55°F DISCHARGE AIR TEMPERATURE. INSTALL ALL REQUIRED SYSTEM VALVING/COMPONENTS FOR MANUFACTURER'S VARIABLE SPEED COMPRESSORS**
- RECOVER EXISTING SYSTEM REFRIGERANT PER EPA STANDARDS AND REMOVE EXISTING AIR COOLED CONDENSING UNIT. EXISTING ROOF RAILS TO BE MODIFIED AS REQUIRED TO PROPERLY ACCEPT NEW CONDENSING UNIT. PROVIDE NEW TRANE MODEL 'SALUDAD' (OR DAIKIN MODEL R5J/JOHNSON CONTROL'S MODEL YCAL EQUAL) TO PROVIDE 50 NOMINAL TONS OF COOLING WITH 480V/3PH 3Ø 340/000 TROP ELECTRICAL CHARACTERISTICS. PROVIDE THE FOLLOWING FACTORY INSTALLED OPTIONS: MICROCHANNEL CONDENSER COIL, UNIT DISCONNECT SWITCH, SERVICE SUCTION VALVES, SPRING ISOLATORS, PRESSURE GAUGES, BACKUP INTERFACE, VARIABLE SPEED ECH MOTOR DRIVEN CONDENSER FANS, AND PREMIUM SOUND REDUCTION OPTION. MAX OPERATING HEIGHT: 2900 LBS. NON-OVERLAPPING SEQUENCE WITH HEATING VALVE**

1 BUILDING 'A' MECHANICAL/ELECTRICAL PLAN
SCALE: 1/8"=1'-0"



2 PARTIAL BUILDING 'A' MECHANICAL/ELECTRICAL PLAN
SCALE: 1/8"=1'-0"



DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

- NEW CONDENSING UNIT 1 INSTALLED IN SAME LOCATION AS EXISTING. INTERCEPT EXISTING POWER FEED BELOW ROOF AND EXTEND TO NEW UNIT DISCONNECT SWITCH. EXTEND WITH SAME SIZE CONDUCTOR AS EXISTING. MINIMUM SIZE 48/0, 1H46 IN 2/C.
- NEW CONDENSING UNIT 2 INSTALLED IN SAME LOCATION AS EXISTING. INTERCEPT EXISTING POWER FEED BELOW ROOF AND EXTEND TO NEW UNIT DISCONNECT SWITCH. EXTEND WITH SAME SIZE CONDUCTOR AS EXISTING. MINIMUM SIZE 441, 1H46 IN 1/2/C.
- PROVIDE PULL BOX BELOW ROOF IN ACCESSIBLE LOCATION TO INTERCEPT EXISTING FEEDER FOR EXTENSION TO NEW UNIT. IF SPACE ALLOWS BASED ON NEW UNIT FOOTPRINT, CONTRACTOR MAY REPLACE EXISTING DISCONNECT ABOVE ROOF WITH NEPA 3R PULL BOX TO INTERCEPT FEEDER. PROVIDE UNSTRUT BRACING FOR PULL BOX.
- EXISTING PANEL 'DP-1'. REPLACE EXISTING CIRCUIT BREAKER SERVING ROOF TOP UNIT TO BE REPLACED WITH NEW 25kVA/3P CIRCUIT BREAKER IN SAME LOCATION.
- EXISTING PANEL 'DP-1'. PROVIDE NEW 15kVA/3P CIRCUIT BREAKER IN AVAILABLE SPACE FOR NEW EXHAUST FAN.
- NEW ROOFTOP UNIT INSTALLED IN SAME LOCATION AS EXISTING. INTERCEPT EXISTING POWER FEED BELOW ROOF AND EXTEND TO NEW UNIT DISCONNECT SWITCH. EXTEND WITH SAME SIZE CONDUCTOR AS EXISTING. MINIMUM SIZE 3-250KCT/1L, 1H46 IN 2 1/2/C.
- PROVIDE PULL BOX BELOW ROOF IN ACCESSIBLE LOCATION TO INTERCEPT EXISTING FEEDER FOR EXTENSION TO NEW UNIT.

NOTE
EXISTING CONDITIONS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD REGARDING EXISTING MATERIALS TO BE RE-USED AND/OR MODIFIED AND REPORT THEM TO THE ENGINEER.

NOTE
CONTRACTOR SHALL VERIFY THE EXISTING SIZE OF ALL ELECTRICAL CIRCUITS AND OVERCURRENT DEVICES TO BE REUSED OR REPLACED AND REPORT DISCREPANCIES IN EXISTING SIZES WHERE THEY DO NOT MATCH THE MINIMUM CONDUCTOR SIZES STATED ON THE DRAWINGS.



McHENRY COUNTY COLLEGE - BUILDING 'A' 2009 HVAC IMPROVEMENTS
8900 US HWY 14 - BLDG. 'A'
CRYSTAL LAKE, IL 60012

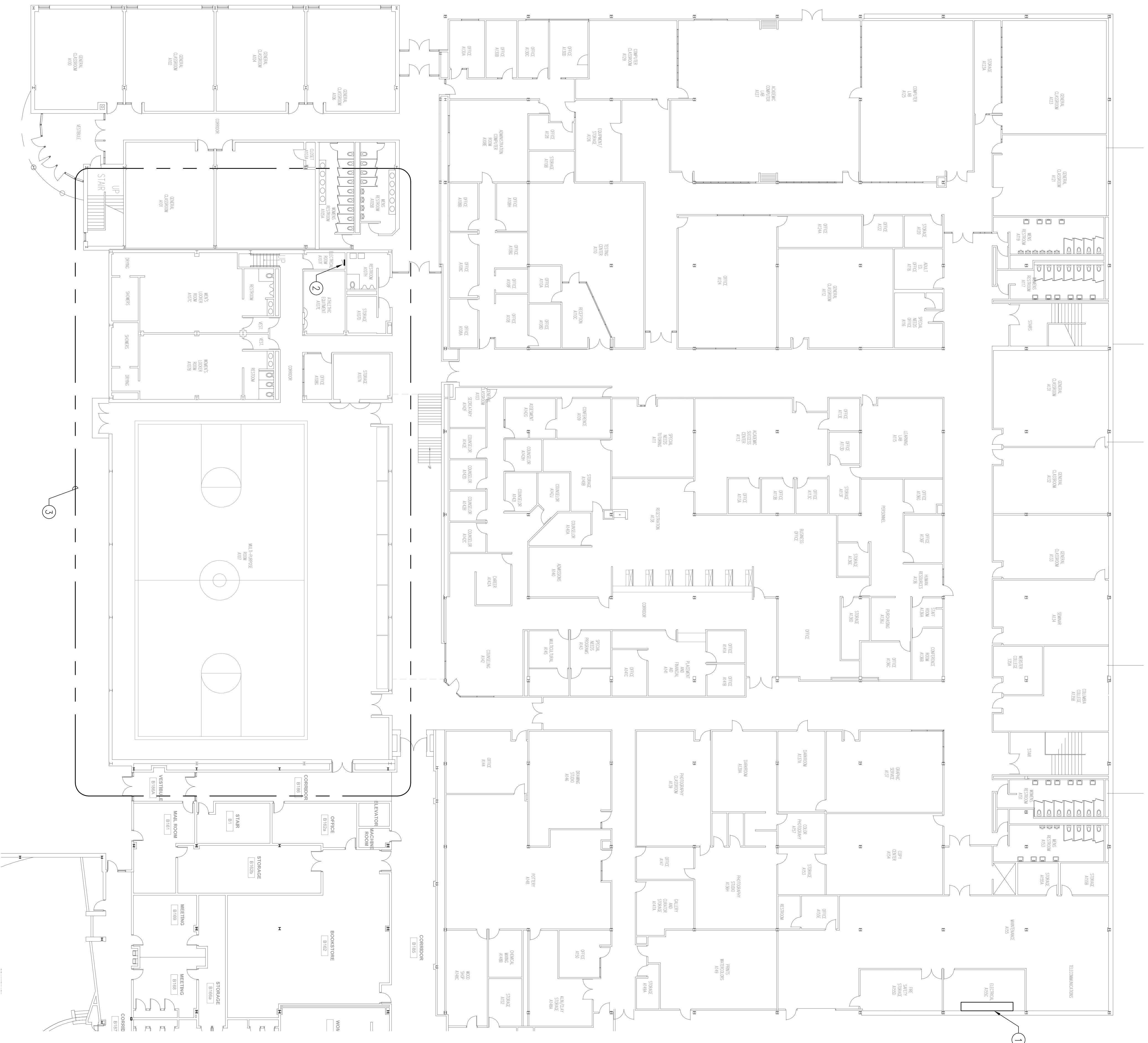
MECH-ENGINEERING GROUP LLC
Schaumburg, Illinois 60173
847.882.2010
Fax 847.882.2201

PROJ. NO. 2010
DRAWN BY: 2010
CHECKED BY: 2010

Sheet Title
BUILDING 'A' MECHANICAL/ELECTRICAL PLAN

ME-1

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1 BUILDING 'A' MECHANICAL/ELECTRICAL PLAN 1ST FLOOR
 ME-3 SCALE: 1/8"=1'-0"
 N

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

- ① EXISTING DISTRIBUTION PANEL FEEDING RTU-1. RTU-1 SERVED FROM 400A 3P FUSIBLE SWITCH. REMOVE EXISTING 300A FUSES AND REPLACE WITH NEW 225A FUSES TO SERVE NEW RTU-1 UNIT. EXISTING CONDUCTORS TO REMAIN AND BE EXTENDED TO NEW UNIT.
- ② EXISTING PANEL 'A' ONE LEVEL BELOW. REPLACE EXISTING BREAKERS SERVING CONDENSING UNITS TO BE REPLACED WITH 100A/9P BREAKER FOR CONDENSING UNIT 1, AND 125A/3P FOR CONDENSING UNIT 2. EXISTING CONDUCTORS TO REMAIN AND BE EXTENDED TO NEW UNIT.
- ③ AREA OF WORK ABOVE.

McHENRY COUNTY COLLEGE - BUILDING 'A' 2019 HVAC IMPROVEMENTS
 8900 US HWY 14 - BLDG. 'A'
 CRYSTAL LAKE, IL 60012

10/2/2018	ADDITION 2
9/6/2018	BID EXCERPTS
DATE	DESCRIPTION
Mechanical - Electrical Engineers 1216 Tower Road Schaumburg, Illinois 60173 847.882.2010 Fax 847.882.2201	

Sheet Title
MECHANICAL/ELECTRICAL NOTES

10/2/2018
 PM
 ENGINEERING
 GROUP LLC

PROJ. NO. 2010
 DRAWN BY: 2010
 CHECKED BY: 2010
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