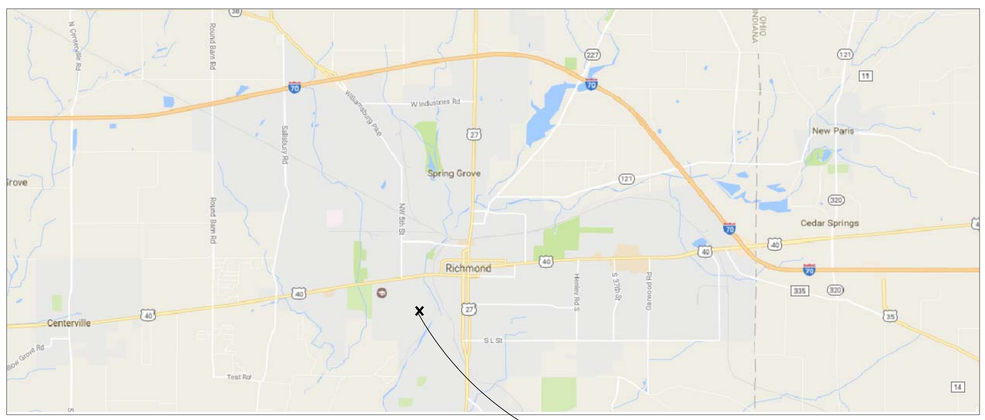
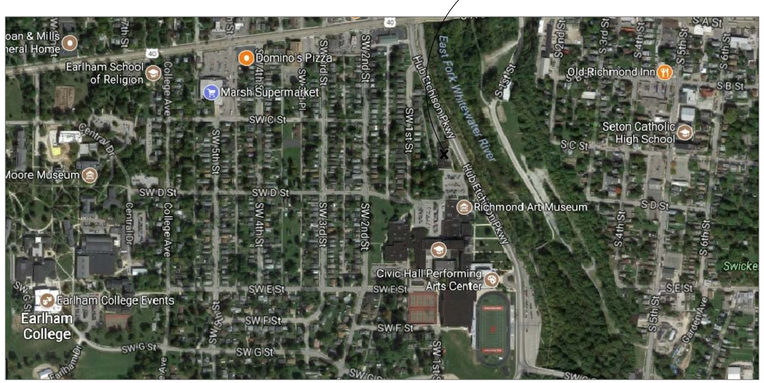
SERVER SUPPORT SYSTEMS IMPROVEMENTS
ADMINISTRATION BUILDING
RICHMOND COMMUNITY SCHOOLS
300 HUB ETCHISON PARKWAY
RICHMOND, INDIANA 47374

OCTOBER 5, 2017

PLAN INDEX:

NUMBER	DRAWING TITLE
T001	TITLE SHEET
D001	DEMOLITION PLAN
M101	MECHANICAL PLAN
E101	ELECTRICAL PLAN





VICINITY MAPS

GENERAL NOTES

1. ALTERNATES TO BE BID ARE IDENTIFIED IN DIVISION 1 OF THE PROJECT MANUAL.
2. THE CONTRACTOR MAY UTILIZE ANY EXISTING DRINKING FOUNTAINS, HOSE BIBS, OR 120 VOLT, 15 AMP RECEPTACLES WITHIN THE CONSTRUCTION AREA. NO OTHER OWNER FACILITIES MAY BE USED BY THE CONTRACTOR'S PERSONNEL.
3. THE ENTIRE BUILDING WILL REMAIN OCCUPIED THROUGHOUT CONSTRUCTION. IN FINISHED AREAS, DO NOT PERFORM SELECTIVE DEMOLITION WORK UNTIL IMMEDIATELY BEFORE INSTALLING NEW WORK. PERFORM PATCHING IMMEDIATELY AFTER INSTALLING NEW WORK.
4. EXCEPT WHERE SELECTIVE DEMOLITION IS REQUIRED, THE CONTRACTOR SHALL NOT DAMAGE ANY EXISTING SURFACES.
5. ALL ITEMS SHOWN ON DEMOLITION PLANS ARE EXISTING AND SHALL REMAIN IN PLACE UNLESS OTHERWISE INDICATED. DO NOT DAMAGE ITEMS TO REMAIN.
6. MINIMUM ACCEPTABLE CONDUCTOR SIZES PROTECTED BY PANELBOARD CIRCUIT BREAKERS SHALL BE AS FOLLOWS:

BREAKER TRIP AMPS	CONDUCTOR SIZE, AWG
15	#12
20	#12
30	#10
40	#8
50	#6
60	#4
75	#3
90	#2

PROVIDE LARGER CONDUCTORS WHERE INDICATED.

7. WHERE EXISTING ELECTRICAL CONDUITS TO REMAIN WOULD OTHERWISE PREVENT THE INSTALLATION OF DUCTWORK AT THE LOCATIONS AND HEIGHTS INDICATED, PROVIDE ELECTRICAL JUNCTION BOXES, SPLICE CONDUCTORS, AND EXTEND RACEWAYS AND CONDUCTORS OUTSIDE OF THE SPACE NEEDED FOR THE NEW DUCTWORK.
8. ALL REQUIRED SUBMITTALS FOR THE COMPUTER ROOM COOLING EQUIPMENT AND FOR THE STANDBY GENERATOR SHALL BE SUBMITTED AS PART OF EACH BIDDER'S BID PACKAGE. APPROVED SUBMITTALS WILL BE RETURNED TO THE CONTRACTOR ALONG WITH THE CONTRACT AND EQUIPMENT SHALL THEN BE ORDERED IMMEDIATELY. IF SUBMITTALS DON'T SHOW FULL COMPLIANCE WITH REQUIREMENTS, MEETINGS WITH THE APPARENT LOW BIDDER, THE EQUIPMENT SUPPLIERS, THE ENGINEER, AND THE OWNER WILL BE REQUIRED BETWEEN THE DATES OF BID OPENING AND CONTRACT AWARD TO RESOLVE ANY AND ALL ISSUES WITH SUBMITTALS SO THAT THEY CAN BE APPROVED BY THE TIME OF CONTRACT AWARD.
9. ALL CONNECTIONS TO THE COMPUTER ROOM AIR CONDITIONING EQUIPMENT SHALL BE MADE TO MEET ALL RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURER.
10. ALL CIRCUIT BREAKER AND FUSE RATINGS INDICATED ON THE DRAWINGS SHALL BE VERIFIED WITH THE SERVED EQUIPMENT MANUFACTURER BY THE CONTRACTOR BEFORE ORDERING THE CIRCUIT BREAKERS AND FUSES. IF THE SUBMITTED AND APPROVED EQUIPMENT REQUIRES DIFFERENT RATINGS FOR FUSES AND CIRCUIT BREAKERS THAN INDICATED ON THE DRAWINGS THE CONTRACTOR SHALL PROVIDE UNITS WITH RATINGS AS REQUIRED BY THE MANUFACTURER.
11. AWARD OF A CONSTRUCTION CONTRACT IS ANTICIPATED TO OCCUR ON OR BEFORE NOVEMBER 10, 2017.
12. ALL EXTERIOR UNDERGROUND WORK, CONCRETE WORK, AND PAVEMENT REPAIR WORK SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS OF CONTRACT AWARD. IF NECESSARY, IT WILL BE ACCEPTABLE FOR TRENCH SURFACE RESTORATION TO BE TEMPORARY COLD-PATCH PAVEMENT, WITH COLD-PATCH MATERIALS TO BE REMOVED AND REPLACED WITH SPECIFIED PAVING MATERIALS BEFORE APRIL 30, 2018.
13. THE TRANSFER SWITCH SHALL BE INSTALLED AND ALL WIRING SHALL BE TERMINATED WITHIN IT SO THAT ALL POWER SYSTEMS WITHIN THE FACILITY WILL BE OPERATIONAL AND NO FURTHER POWER OUTAGE WILL BE NECESSARY TO BRING THE GENERATOR ON LINE. IT IS NOT NECESSARY THAT THE GENERATOR BE OPERATIONAL BY THIS DATE.
14. WORK WITHIN THE ADMINISTRATION BUILDING, EXCEPT FOR WORK IN THE WAREHOUSE ROOM, SHALL NOT BEGIN BEFORE FRIDAY, DECEMBER 8, 2017.
15. ALL OWNER EQUIPMENT EXISTING IN THE SERVER ROOM SHALL REMAIN IN THE SERVER ROOM AT CURRENT LOCATIONS THROUGHOUT THE DURATION OF THE PROJECT.
16. DURING PERMITTED DATA EQUIPMENT SHUTDOWNS, THE CONTRACTOR SHALL PROTECT AND COVER ALL DATA EQUIPMENT, INCLUDING UPS EQUIPMENT. PROTECTIVE COVERINGS SHALL BE SEALED TO PREVENT THE ENTRY OF DUST. THE CONTRACTOR SHALL REMOVE COVERINGS PRIOR TO RESTART OF THE DATA EQUIPMENT.
17. THREE SEPARATE SHUTDOWNS OF DATA EQUIPMENT WILL BE PERMITTED. SHUTDOWN AND RESTART OF ALL DATA EQUIPMENT WILL BE ACCOMPLISHED BY THE OWNER. THE CONTRACTOR MAY SELECT THE SPECIFIC SHUTDOWN AND RESTART TIMES WITHIN THE TIME LIMITATIONS SPECIFIED.
18. ONE 24-HOUR SHUTDOWN WILL BE PERMITTED FOR REMOVAL OF THE SERVER ROOM CEILING AND ALL ITEMS INDICATED TO BE REMOVED FROM ABOVE THE CEILING. THIS 24-HOUR SHUTDOWN MAY BEGIN AFTER 5:00 PM ON FRIDAY, DECEMBER 8 AND SHALL END NOT LATER THAN 6:00 PM ON SUNDAY, DECEMBER 10.
19. THE SECOND SHUTDOWN MAY LAST FOR UP TO 48 HOURS FOR INSTALLATION OF THE NEW CEILING ALL NEW ABOVE CEILING CONSTRUCTION. THIS 48-HOUR SHUTDOWN MAY BEGIN AFTER 2:00 PM ON THURSDAY, DECEMBER 21 AND SHALL END NOT LATER THAN 10:00 PM ON SATURDAY, DECEMBER 23.
20. A FINAL 4-HOUR SHUTDOWN WILL BE PERMITTED FOR A POWER OUTAGE TO TRANSFER POWER FEEDS FROM THE EXISTING COOLING EQUIPMENT TO THE NEW COOLING EQUIPMENT. THIS SHUTDOWN MAY OCCUR AT ANY MUTUALLY AGREEABLE TIME DURING NON-BUSINESS HOURS. DATA EQUIPMENT IS NOT REQUIRED TO BE COVERED DURING THIS SHUTDOWN.
21. INSTALLATION AND CONNECTION OF THE NEW AIR HANDLING UNITS IN THE SERVER ROOM MAY OCCUR DURING NON-BUSINESS HOURS OUTSIDE OF THE SHUTDOWN PERIODS SO LONG AS NO DUST-CREATING OPERATIONS ARE PERFORMED IN THE SERVER ROOM.
22. ALL NEW COOLING EQUIPMENT AND THE GENERATOR SHALL BE COMPLETELY INSTALLED, TESTED, AND OPERATIONAL BEFORE FEBRUARY 23, 2018.
23. THE EXISTING THROUGH-WALL AIR CONDITIONING EQUIPMENT SHALL BE REMOVED AND ALL WALL PATCHING AND FINISHING SHALL BE ACCOMPLISHED BETWEEN THE DATES OF MARCH 25 AND MARCH 31, 2018. DATA EQUIPMENT SHALL REMAIN OPERATIONAL AND THE CONTRACTOR SHALL PROVIDE A DUST TIGHT PROTECTIVE BARRIER TO SEPARATE AND PROTECT ALL INTERIOR EQUIPMENT AND SURFACES FROM DAMAGE FROM DUST, DEMOLITION AND CONSTRUCTION OPERATIONS, AND THE ELEMENTS FOR THE DURATION OF THIS WORK. INSTALLATION OF TH VERTICAL DUCTS ON THE WEST WALL OF THE SERVER ROOM MAY BE DELAYED UNTIL THIS TIME.

PROJECT DESCRIPTION

1. THESE DRAWINGS DESCRIBE RENOVATION WORK AT THE RICHMOND SCHOOL'S ADMINISTRATION BUILDING REQUIRED TO REPLACE TWO 6-TON PACKAGED AIR CONDITIONING UNITS WITH TWO SPLIT 5-TON COMPUTER ROOM AIR CONDITIONING SYSTEMS, AND TO INSTALL A STANDBY GENERATOR TO POWER ELECTRONIC EQUIPMENT AND ONE OF THE NEW COMPUTER ROOM AIR CONDITIONING SYSTEMS.

DON R. MILLER ENGINEERING
ENGINEERING SERVICES
2529 NEW MADISON-COLETOWN ROAD
NEW MADISON, OHIO 45346
TELEPHONE (937) 621-9323
EMAIL: DON@DONRMILLERPE.COM

DON R. MILLER REGISTERED NO. PE60860109 STATE OF INDIANA PROFESSIONAL ENGINEER

SERVER SUPPORT SYSTEMS IMPROVEMENTS
ADMINISTRATION BUILDING
RICHMOND COMMUNITY SCHOOLS
300 HUB ETCHISON PARKWAY
RICHMOND, INDIANA 47374

TITLE SHEET

PROJECT NO.	E17013
DESIGNED BY	D.R.M.
DRAWN BY	D.A.L.
CHECKED BY	D.R.M.
DATE	10/05/2017
FILE NO.	
REVISIONS	

DRAWING OF T001