GENERAL NOTES:
A. UNLESS OTHERWISE NOTED, ALL PIPING SHOWN IS NEW. REMOVE ALL EXISTING PIPING NOT USED IN FINAL ARRANGEMENT.
JOB SITE VISIT IS REQUIRED FOR THIS DETERMINATION.
B. PIPING CONTRACTOR SHALL CAREFULLY COORDINATE PIPING LOCATIONS WITH ALL OTHER TRADES BEFORE FABRICATING PIPING. ALL PIPING SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. REFER TO THE SPECIFICATIONS FOR COORDINATION.

DRAWING NOTES:
A. EXISTING PUMPS
B. REFER TO DETAIL SHEET M2.0

REVOLUTIONS
ISSUANCES
DATE
DESCRIPTION
SHEET TITLE
SHEET #
DATE
SCALE
DRAWN BY
PROJECT NO.
XU.2015.02
05.26.16
FOR OWNER REVIEW
HVAC
IMPROVEMENTS
FOR
SECOND FLOOR
AT
SCHMIDT HALL
FOR
XAVIER UNIVERSITY
1518 HERALD AVE
CINCINNATI, OHIO
45207

BASEMENT PIPING PLAN

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BASEMENT PLAN

AS SHOWN

03.09.17
FOR BID AND PERMIT

SCALE: 1/8" = 1'-0"
GENERAL NOTES:

1. CONTRACTOR TO REMOVE EXISTING BRANCH PIPING TO FCU’S 6A, 6B, AND 6C AND CAP EXISTING SUPPLY, RETURN, AND DRAIN PIPING AT P.O.R. INDICATED.

2. CONTRACTOR TO REMOVE EXISTING FAN COIL UNITS. REFER TO SHEET MP1.2 FOR DETAILED WORK IN THIS AREA.

DRAWING NOTES:

A. UNLESS OTHERWISE NOTED, ALL PIPING SHOWN IS NEW. REMOVE ALL EXISTING PIPING NOT USED IN FINAL ARRANGEMENT. JOB SITE VISIT IS REQUIRED FOR THIS DETERMINATION.

B. PIPING CONTRACTOR SHALL CAREFULLY COORDINATE PIPING LOCATIONS WITH ALL OTHER TRADES BEFORE FABRICATING PIPING. ALL PIPING SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. REFER TO THE SPECIFICATIONS FOR COORDINATION.
GENERAL NOTES:

A. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION EFFORTS.
B. COORDINATE ALL NEW HVAC WORK WITH WORK BY OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO WORK IS TO BE INSTALLED OR FABRICATED UNTIL AFTER THE PROJECT COORDINATION HAS BEEN APPROVED BY THE OWNER'S REPRESENTATIVE.
C. ALL OVERHEAD DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE.
D. THE HVAC CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL EQUIPMENT AND DUCTWORK.
E. THE HVAC CONTRACTOR SHALL COORDINATE ALL REQUIRED WALL OPENINGS FOR DUCTWORK WITH THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF THE NEW WALLS. ALL ADDITIONAL OPENINGS FOR DUCT PENETRATIONS SHALL BE PROVIDED BY THE HVAC CONTRACTOR IN COMPLIANCE WITH ALL CONDITIONS OF THE PROJECT SPECIFICATIONS.
F. THE HVAC CONTRACTOR SHALL PROVIDE ALL REQUIRED WALL AND FLOOR OPENINGS FOR PIPING. HVAC CONTRACTOR SHALL FIRESTOP ALL RATED OPENINGS. THE HVAC CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING THAT IS REQUIRED FOR PIPING PENETRATIONS THROUGH WALLS AND FLOORS.

DRAWING NOTES:

1. CONTRACTOR TO REMOVE ALL EXISTING DUCTWORK IN THIS ROOM UP TO P.O.R. INDICATED. CONTRACTOR TO REMOVE ALL FCU'S, DIFFUSERS, AND ASSOCIATED SHEET METAL WORK IN THIS AREA.
SECOND FLOOR PIPING PLAN

DRAWING NOTES:

1. CONSTRUCTION NOTES: AS PIPING IS TO BE PLACED IN ROOMS AND CLEAN OUTS FOR MAINTENANCE, ACCESS ARE TO BE ENSURED NOT TO BE OBSTRUCTED.

2. PIPING CONTRACTOR TO CAREFULLY COORDINATE PIPING LOCATIONS WITH ALL OTHER TRADES BEFORE FABRICATING AND INSTALLATION.

3. CONTRACTOR TO EXTEND EXISTING DTS, DTR, AND DRAIN PIPING TO NEW FAN COIL UNITS AND MAKE CONNECTION THERETO.

4. CONTRACTOR TO CAREFULLY REMOVE EXISTING FAN COIL UNIT LOCATED BEHIND DECORATIVE WOOD CABINETRY. CONTRACTOR SHALL REMOVE PORTION OF CABINETRY TO ALLOW REMOVAL OF EXISTING UNITS AND INSTALLATION OF NEW UNITS. CONTRACTOR SHALL REINSTALL CABINETRY.

5. EXISTING VENTILATION IN THIS ROOM TO REMAIN UNCHANGED.

- CONTRACTOR TO EXTEND EXISTING DTS, DTR, AND DRAIN PIPING TO NEW FAN COIL UNITS AND MAKE CONNECTION THERETO.

- CONTRACTOR TO CARRY OUT REPLACEMENT OF EXISTING UNITS AND INSTALLATION OF NEW UNITS. CONTRACTOR SHALL CLEARLY MARK THE LOCATION OF THE NEW UNITS AND ACCESS TO THE AIR HANDLING UNITS.

- CONTRACTOR TO CARRY OUT REPLACEMENT OF EXISTING UNITS AND INSTALLATION OF NEW UNITS. CONTRACTOR SHALL CLEARLY MARK THE LOCATION OF THE NEW UNITS AND ACCESS TO THE AIR HANDLING UNITS.

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HVAC IMPROVEMENTS
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GENERAL NOTES:

A. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION EFFORTS.

B. COORDINATE ALL NEW HVAC WORK WITH WORK BY OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO WORK IS TO BE INSTALLED OR FABRICATED UNTIL AFTER THE PROJECT COORDINATION HAS BEEN APPROVED BY THE OWNER'S REPRESENTATIVE.

C. ALL OVERHEAD DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE.

D. THE HVAC CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL EQUIPMENT AND DUCTWORK.

E. THE HVAC CONTRACTOR SHALL COORDINATE ALL REQUIRED WALL OPENINGS FOR DUCTWORK WITH THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF THE NEW WALLS. ALL ADDITIONAL OPENINGS FOR DUCT PENETRATIONS SHALL BE PROVIDED BY THE HVAC CONTRACTOR IN COMPLIANCE WITH ALL CONDITIONS OF THE PROJECT SPECIFICATIONS.

F. THE HVAC CONTRACTOR SHALL PROVIDE ALL REQUIRED WALL AND FLOOR OPENINGS FOR PIPING. HVAC CONTRACTOR SHALL FIRESTOP ALL RATED OPENINGS. THE HVAC CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING THAT IS REQUIRED FOR PIPING PENETRATIONS THROUGH WALLS AND FLOORS.

1. EXISTING VENTILATION IN THIS ROOM TO REMAIN UNCHANGED.

DRAWING NOTES:

SECOND FLOOR SHEET METAL ENLARGED PLAN

SECOND FLOOR SHEET METAL PLAN

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HVAC SHEET METAL
SECOND FLOOR PLAN

REVISIONS

ISSUANCES

05.26.16
FOR OWNER REVIEW

03.09.17
FOR BID AND PERMIT

NEW FCU INSTALLED BELOW CEILING. NEW FCU TO BE SUPPORTED ON UNISTRUT ATTACHED TO STRUCTURE ABOVE ACT CEILING.

R-10X20 DN
BELOW CEILING

R-10X20

S-12X20 DN
BELOW CEILING

S-12X20

SEE ENLARGED PLAN THIS SHEET FOR NEW WORK BELOW CEILING

NEW WORK IN THIS AREA
GENERAL NOTES:

A. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION EFFORTS.

B. COORDINATE ALL NEW HVAC WORK WITH WORK BY OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO WORK IS TO BE INSTALLED OR FABRICATED UNTIL AFTER THE PROJECT COORDINATION HAS BEEN APPROVED BY THE OWNER’S REPRESENTATIVE.

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D. THE HVAC CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL EQUIPMENT AND DUCTWORK.

E. THE HVAC CONTRACTOR SHALL COORDINATE ALL REQUIRED WALL OPENINGS FOR DUCTWORK WITH THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF THE NEW WALLS. ALL ADDITIONAL OPENINGS FOR DUCT PENETRATIONS SHALL BE PROVIDED BY THE HVAC CONTRACTOR IN COMPLIANCE WITH ALL CONDITIONS OF THE PROJECT SPECIFICATIONS.

F. THE HVAC CONTRACTOR SHALL PROVIDE ALL REQUIRED WALL AND FLOOR OPENINGS FOR PIPING. HVAC CONTRACTOR SHALL FIRESTOP ALL RATED OPENINGS. THE HVAC CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING THAT IS REQUIRED FOR PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
1. FLOOR OR WALL ASSEMBLY - MIN. 4-1/2" IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL - WALL ASPHALTIC COATING - M9.1 CLASSIFIED CONCRETE BLOCK - MARIO DI ANGELIS LT.

2. METALLIC SLEEVE - (OPTIONAL) - NOM. 16" IN DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, CONDUIT OR TUBING AND TO BE RIGIDLY SUPPORTED ON CONCRETE FLOOR OR WALL ASSEMBLY - THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING WELDED TO SLEEVE AS SHOWN.

3. METALLIC SLEEVE - TO INSTALL SLEEVE AND PROVIDE PIPE SLEEVE INSTALLED ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPES, CONDUITS OR TUBING AND FIRESTOP SYSTEM SHALL EXCEED THE SCHEDULED THICKNESS OF FIRESTOP SYSTEM.

4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING.

B. FILL, VOID, OR CAVITY MATERIAL - CAULK - MIN. 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN MAXIMUM DISTANCE 1 1/2" FOR WALL TYPES.

C. SAFING INSULATION - TIGHTLY PACKED FIBERGLASS INSULATION - SPACING SHALL NOT EXCEED THE SCHEDULED MAXIMUM DISTANCE 1/2" FOR WALL TYPES.

D. CONCRETE - @ 1/2" PER 10 FOOT OF WALL Types, CONCRETE TO BE TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR WALL ASSEMBLY.

E. STEEL PIPE - NOM. 12" DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

F. STEEL DECK - PROVIDE PATCHING FOR PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR WALL ASSEMBLY.

G. FIRE RETARDENT SEALANT - RETARDENT SEALANT FOR ALL PIPE SLEEVES INSTALLED INTO OPENING AS REQUIRED TO ACCOMMODATE THE MAXIMUM DIAMETER OF CONDUIT OR TUBING AND REQUIRED THICKNESS OF FILL MATERIAL.

H. INSULATION - CONVECTION INSULATION TO BE CONTINUOUSLY INSTALLED WITHIN FIRESTOP SYSTEM.

I. EXHAUST FAN - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER WITHIN UNIT OR WITHIN BLDG. PARTITIONS SHALL NOT RUN IF ONE ROOM IS OCCUPIED. WHERE MULTIPLE EXHAUST FANS ARE INSTALLED IN A SINGLE UNIT OR BLDG. PARTITION, MORE THAN ONE EXHAUST FAN SHALL RUN IF ONE ROOM IS OCCUPIED. MAKE CONNECTION TO CONDUIT OR TUBING AT VENTILATION EQUIPMENT Parse error: error
DRAWING NOTES:

NEW VFD PROVIDED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR.

BASEMENT POWER PLAN

03/09/2017

03/09/2017
SECOND FLOOR POWER DEMO PLAN

DRAWING NOTES:
1. E.C. TO DISCONNECT EXISTING FAN COIL UNITS. FIELD COORDINATE WITH MECHANICAL CONTRACTOR.
**DRAWING NOTES:**

1. Connect new fan coil unit and new disconnect to existing circuit, rework circuit as required. Field coordinate with mechanical contractor. New disconnect provided by mechanical contractor installed by electrical contractor.

2. FCU-2-6 located above ceiling. New disconnect provided by mechanical contractor installed by electrical contractor. Coordinate installation with mechanical contractor.

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**SECOND FLOOR POWER PLAN**

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**DATE**: 03/09/2017

**DESCRIPTION**: FOR BID AND PERMIT
EXISTING CONTROL PANEL
EXISTING PHOTO CELL MTD.
EXISTING CONTROL PANEL
EXISTING MAGNETIC STARTER AND DISCONNECT SWITCH COMBINATIONS
EXISTING EXHAUST FAN
EXISTING T-STAT
ROOF BELOW
NEW ACCU-2-6 ON ROOF
LP-2B-21, 23
LP-2B-22, 24
LP-2B-25
WP/GFCI
VFD
2
2

Roof Power Plan

Drawing Notes:
1. New weather-proof disconnect provided and installed by electrical contractor. Field coordinate location with mechanical contractor.
2. New VFD provided by mechanical contractor installed by electrical contractor.

03/09/2017

Roof Power Plan

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HVAC Improvements for Second Floor at Schmidt Hall for Xavier University
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ISSUANCES

REVISIONS

EP1.R