GENERAL NOTES

1. SYSTEM ARCHITECTURE SHALL INCLUDE VARIABLE FREQUENCY MOTOR SPEED CONTROLLERS WHERE PRESENT. PROVIDE SERIAL INTERFACE TO ALL VFD'S.
2. PROVIDE ACTIVE HUBS AND SWITCHES AS REQUIRED FOR A FUNCTIONAL NETWORK.
3. THE CONTROL SYSTEM ARCHITECTURE SHOWN IS DIAGRAMMATIC. IT IS NOT INTENDED TO DICTATE THE ACTUAL ARCHITECTURE OF THE SYSTEMS, NOR DOES IT SHOW ALL ITEMS REQUIRED. ITS SOLE PURPOSE IS TO PROVIDE A STARTING POINT FOR THE HVAC CONTROLS SUPPLIER WHEN DEVELOPING SUBMITTAL DIAGRAMS AND SEQUENCES OF OPERATION FOR THE PROJECT.
4. HVAC CONTROLS SUPPLIER SHALL PROVIDE 120V POWER TO EACH DCP, ASC AND UCP CONTROL PANEL FROM SPARE CIRCUIT BREAKERS IN ELECTRICAL PANELS PROVIDED BY THE ELECTRICAL CONTRACTOR.
   ALL ACTUATORS SHALL BE 24V OR 120VAC ELECTRIC ACTUATORS, UNLESS OTHERWISE NOTED.
5. COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED WITH 120 VAC ELECTRIC ACTUATORS. THE E.C. WILL PROVIDE ELECTRIC POWER SERVICE TO ALL COMBINATION FIRE/SMOKE DAMPERS.
6. PROVIDE AN END SWITCH WITH EACH DAMPER TO ENSURE THAT THE DAMPER IS PROVEN OPEN BEFORE THE FAN STARTS AND CLOSED AFTER THE FAN IS STOPPED.
7. INSTALLED LOCATION OF DDC PANELS AND CONTROLLED DEVICES SHALL BE INDICATED ON HVAC AS-BUILT PLANS SUBMITTED TO ENGINEER.

F1 TYPE 2: EXHAUST AIR SYSTEMS CONTROLS DIAGRAM

N.T.S.

FOR CONSTRUCTION
FULLY SPRINKLERED

Revisions:	Date
ROB AS-BUILT COORDINATION	9-6-13

CONSULTANTS:

Stantec Architecture and Engineering LLC
400 Morgan Center
101 E. Diamond Street
Butler, PA. 16011

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — TIMOTHY R. BEGGS — No. 054923-E

ARCHITECT/ENGINEERS:

ADVETECT
5700 Powell Grove Dr. Suite 100
Midlothian, Virginia 23112
(804) 282-2403
advetect.com
A certified Service Disabled Veteran Owned Small Business (SDVOSB)

Approved: VAPHS Director	Approved: V.P. Facility Mananger
Approved: Associate Director	Approved: Manager Project Section
Approved: ACOS/R&D	Approved: Project Engineer

Drawing Title	EXHAUST AIR SYSTEMS CONTROLS DIAGRAM
Scale:	N.T.S.
Building Number:	30
Drawn By:	
Checked By:	
Project Title	UNIVERSITY DRIVE RESEARCH OFFICE BUILDING WET LABS
Location	University Drive, Pittsburgh, PA 15240
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