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MECHANICAL GENERAL NOTES

1. ALL DRAWINGS AND ALL SPECIFICATION SECTIONS OF THE CONTRACT DOCUMENTS WORK AS A WHOLE, AND THE ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND ARTICLES, AND THE ARRANGEMENT OF DRAWINGS SHALL NOT BE CONSTRUED AS SCOPING THE WORK INTO SUBCONTRACTS, CONTROLLING THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS, OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. THE CONTRACTOR SHALL PROVIDE ALL WORK INDICATED IN THE CONTRACT DOCUMENTS REGARDLESS OF LOCATION PRESENTED.
2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS AND GENERAL NOTES SHOWN ON DWG E-0.1.
3. ALL DUCTWORK DIMENSIONS SHOWN ON PLANS ARE CLEAR INTERNAL SIZES.
4. COORDINATE CONNECTIONS OF NEW WORK WITH EXISTING FIELD CONDITIONS.
5. APPLICABLE CODES AND STANDARDS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CODES AND STANDARDS AND ANY REGULATIONS EFFECTIVE IN THE PROJECT JURISDICTION. ALL CODE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR RESOLUTION. APPLICABLE CODES AND STANDARDS ON THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- 1.1 2018 INTERNATIONAL MECHANICAL CODE  
1.4 2018 NFPA 101 – LIFE SAFETY CODE  
1.6 2014 NFPA 70 – NATIONAL ELECTRIC CODE
6. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION.
7. PENETRATIONS THROUGH ROOF SHALL BE MADE WATERPROOF. ALL PENETRATIONS SHALL BE MADE IN ACCORDANCE WITH SMACNA MANUAL, THE CONTRACT DOCUMENTS AND ANY ROOF WARRANTY REQUIREMENTS.
8. PROVIDE A PULL STRING IN EACH CONTROL CONDUIT TO FACILITATE THE AGENCY PULLING ADDITIONAL CABLES IN THE FUTURE.

B  
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ABBREVIATIONS

- A.F.F. ABOVE FINISHED FLOOR  
AHU AIR HANDLING UNIT  
AI ANALOG INPUT  
AO ANALOG OUTPUT  
ARI AMERICAN REFRIGERATION INSTITUTE  
AS AIR SEPARATOR  
ATC AUTOMATIC TEMPERATURE CONTROL  
AWT AVERAGE WATER TEMPERATURE
- BHP BRAKE HORSEPOWER  
BMS BUILDING MANAGEMENT SYSTEM  
BTU BRITISH THERMAL UNITS
- C COMMON  
CA COMBUSTION AIR PIPING  
CFM CUBIC FEET PER MINUTE  
COMP COMPRESSOR  
CG CEILING GRILLE  
CR CEILING REGISTER  
CS CURRENT SENSOR
- D DAMPER  
DDC DIRECT DIGITAL CONTROL  
DI DIGITAL INPUT  
DO DIGITAL OUTPUT  
DPS DIFFERENTIAL PRESSURE SWITCH  
DW DOMESTIC WATER DRAWING
- EDB ENTERING DRY BULB  
EER ENERGY EFFICIENCY RATIO  
EF EXHAUST FAN  
EFF EFFICIENCY  
ELECT ELECTRIC  
E.S.P. EXTERNAL STATIC PRESSURE  
ERU ENERGY RECOVERY UNIT  
ET EXPANSION TANK  
WB ENTERING WET BULB  
EWT ENTERING WATER TEMPERATURE  
E EXISTING
- F FLUE PIPING  
°F DEGREES FAHRENHEIT  
F.D. FIRE DAMPER AND FLOOR DRAIN  
FLA FULL LOAD AMPS  
FPF FINS PER FOOT  
FS FLOW SWITCH  
FT. FEET  
FT-HD FEET OF HEAD
- GPM GALLONS PER MINUTE  
GVU GAS VENTILATION UNIT
- HP HORSEPOWER  
HPR HEAT PUMP WATER RETURN  
HPRR HEAT PUMP WATER REVERSE RETURN  
HPS HEAT PUMP WATER SUPPLY  
HX HEAT EXCHANGER
- IN. INCHES  
INT. INTERNAL
- KW KILOWATTS  
KWH KILOWATT HOURS
- L LOUVER  
LD LINEAR DIFFUSER  
LDB LEAVING DRY BULB  
LS LEVEL SENSOR  
LWB LEAVING WET BULB
- MBH THOUSANDS OF BTUs PER HOUR  
MCA MINIMUM CIRCUIT AMPACITY  
MCPS MONTGOMERY COUNTY PUBLIC SCHOOLS  
MFV MAXIMUM FACE VELOCITY  
MIN MINIMUM  
MOCP MAXIMUM OVER-CURRENT PROTECTION  
MS MOTOR STARTER  
MU MAKE-UP WATER
- N.C. NORMALLY CLOSED  
N.O. NORMALLY OPEN  
NO. NUMBER
- O.A. OUTSIDE AIR  
OBD OPPOSED BLADE DAMPER  
O.D. OUTSIDE DIAMETER  
OED OPEN END DUCT  
OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
- P PUMP  
P.D. PRESSURE DROP  
PRV PRESSURE REDUCING VALVE
- R.A. RETURN AIR  
RG RETURN GRILLE  
R.P.M. REVOLUTIONS PER MINUTE  
RS REFRIGERANT SUCTON  
RPBP REDUCE PRESSURE BACKFLOW PREVENTOR
- S.A. SUPPLY AIR  
SD SMOKE DETECTOR  
SG SIDEWALL GRILLE  
S.P. STATIC PRESSURE  
SR SIDEWALL REGISTER  
SUP. SUPPLY
- T THERMOSTAT  
T.A. TRANSFER AIR  
TN TRANSITION  
TSP TOTAL STATIC PRESSURE  
TYP TYPICAL
- U.D. UNDER CUT DOOR  
UH UNIT HEATER  
UPS HEAT PUMP SET POINTS
- V VALVE  
VFD VARIABLE FREQUENCY DRIVE  
VAV VARIABLE AIR VOLUME  
V.D. VOLUME DAMPER
- W/ WITH  
WTD WATER TEMPERATURE DROP  
WTR WATER TEMPERATURE RISE

C  
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SYMBOLS

- RETURN AIR DUCT UP WITH SIZE  
FIRST NUMBER IS WIDTH
- EXHAUST AIR DUCT UP
- SUPPLY AIR DUCT UP
- DUCT/PIPING TO BE DEMOLISHED
- DUCT SCHEMATIC REPRESENTATION
- DUCT WITH SIZE, FIRST NUMBER IS  
DIMENSION IN VIEW OF DRAWING
- CHANGE IN ELEVATION, R = RISE, D = DROP
- 90° ELBOW WITH TURNING VANES
- FIRE DAMPER  
AUTOMATED MOTORIZED PARALLEL BLADE CONTROL DAMPER
- SMOKE DAMPER  
AUTOMATED MOTORIZED OPPOSED BLADE CONTROL DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- MANUAL VOLUME DAMPER
- AUTOMATIC DAMPER
- AUTOMATIC DAMPER
- FLEXIBLE DUCT CONNECTION
- SHUT OFF VAV BOX  
MARK  
CFM RANGE
- DIFFUSER DESIGNATION  
BALANCE CFM
- THERMOSTAT OR TEMPERATURE SENSOR
- PRESSURE SENSOR
- CURRENT SENSOR
- DIGITAL OUTPUT
- DIGITAL INPUT
- ANALOG OUTPUT
- ANALOG INPUT
- DRAWING NOTE DESIGNATION
- ROUND OR PHASE
- POINT OF NEW CONNECTION
- END POINT OF DEMOLITION

SCALE & DIMENSIONS

BAR IS ONE (1) INCH LONG  
ON ORIGINAL DRAWING  
0 1

IF BAR IS NOT ONE (1) INCH LONG,  
ADJUST SCALE ACCORDINGLY.  
CONTRACTOR SHALL FIELD VERIFY  
ALL DIMENSIONS. VARIANCE FROM  
CONTRACT NOT PERMITTED  
WITHOUT BUREAU OF ENGINEERING  
AND ARCHITECTURE APPROVAL.

BASE BIDS

VITETTA PROJECT 4645.0000 © 2023 VITETTA  
ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND THE ARCHITECT NOTIFIED  
OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION  
DO NOT SCALE DIMENSIONS

19	20
17	18
15	16
13	14
11	12
09	10
07	08
05	06
03	04
01	02

AS-BUILT REVISIONS

4-4-2024  
MICHAEL A. WEIGAND  
PROFESSIONAL  
REGISTERED  
P.E. 000000-0  
PENNSYLVANIA  
Michael A. Weigand

VITETTA Professional's Signature  
Consultant Professional's Signature  
01.04.2024  
Date

CONSULTANT  
**VITETTA**  
ARCHITECTURE | ENGINEERING | PLANNING  
RENOVATION PRESERVATION  
645 NORTH 12TH STREET • SUITE 100  
LEMOYNE • PENNSYLVANIA • 17043

**WAP** HPE Consulting Engineers  
**WEIGAND ASSOCIATES, INC.**  
20270 GOLDENROD LANE • SUITE 100  
GERMANTOWN • MARYLAND • 20876

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

DGS PROJECT NUMBER  
C-0948-0101 PHASE 001

CAPITOL EAST WING  
REPLACEMENT OF ESCALATORS WITH ELEVATOR,  
HVAC DIFFUSERS, AND CAFETERIA UPGRADES  
500 COMMONWEALTH AVENUE  
HARRISBURG, DAUPHIN COUNTY, PENNSYLVANIA 17101

MECHANICAL COVER SHEET

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