DESIGN DATA

OUTDOOR DESIGN TEMPERATURES

CITY,STATE:	NEW STANTON, PA
WINTER:	4.3° F
SUMMER DRY BULB:	89.9° F
SUMMER WET BULB:	72.5° F

INDOOR DESIGN TEMPERATURES

WINTER:	68-70° F
SUMMER:	72-74° F

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE FOLLOWING CODES/STANDARDS WHICH HAVE BEEN ACCEPTED BY THE AUTHORITY HAVING JURIDICTION: MECHANICAL CODE, BUILDING CODE, NATIONAL ELECTRIC CODE AND ALL LOCAL ORDINANCES.
2. ALL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL , ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS.
3. REFER TO ARCHITECTURAL PLANS FOR EXACT CEILING GRID AND DIFFUSER LOCATIONS.
4. ALL DUCT SIZES SHOWN IN THE PLANS ARE INSIDE CLEAR DIMENSIONS.
5. LOCATE ALL THERMOSTATS AT 44"-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. EXACT LOCATION OF ALL THERMOSTATS SHALL BE APPROVED BY THE ARCHITECT, INTERIOR DESIGNER, AND ENGINEER.
6. CONTRACTOR SHALL CLEAN ALL COILS AND REPLACE FILTERS AT SUBSTANTIAL COMPLETION.
7. AIR CONDITIONING EQUIPMENT SHALL BE AS SPECIFIED. ARCHITECT AND ENGINEER WILL REVIEW SUBSTITUTIONS FOR COMPATIBILITY.
8. SLEEVE AND SEAL ALL PIPING PASSING THROUGH WALLS, FLOORS AND ROOF UNLESS NOTED OTHERWISE.
9. ALL CUTTING, PATCHING AND REPAIR WORK SHALL BE THE RESPONSIBILITY OF THE TRADE INVOLVED.
10. THE MAXIMUM ALLOWABLE LEAKAGE FOR THE DUCTWORK IS 2%.
11. AIR HANDLER UNIT FILTER RACKS SHALL BE READILY ACCESSIBLE FOR MAINTENANCE.
12. CONTRACTOR SHALL INSTALL HVAC SYSTEMS AS REQUIRED BY THE MANUFACTURER TO INSURE QUIET OPERATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELIMINATION OF ANY UNDUE VIBRATION OR SOUND. VIBRATION OR SOUND SHALL NOT BE TRANSMITTED TO BUILDING STRUCTURE AND OCCUPIED AREAS.
13. NOT ALL SYMBOLS, NOTES AND DETAILS MENTIONED HERE ARE USED IN THIS PROJECT.
14. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS. IF NOT SPECIFED, THEN USE TYPE "L" COPPER OR PVC WHERE ALLOWED BY CODE WITH 1/2" ARMAFLEX INSULATION. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR-CONDITIONING. UNIT, AS A SECONDARY DRAIN SYSTEM TO COMPLY WITH LOCAL MECHANICAL AND BUILDING CODE. SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS.
15. PROVIDE ALL CONTROL WIRING AND CONDUIT IN COMPLIANCE WITH NEC.
16. PROVIDE MATERIALS WHICH HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOP RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
17. INSULATE SUPPLY AND RETURN DUCTS TO A MINIMUM R-VALUE OF 6.0 UNLESS INSTALLED IN A MECHANICALLY COOLED SPACE OR IN A CAVITY WHOSE EXTERIOR WALLS ARE INSULATED, IN WHICH CASE THE R-VALUE MAY BE 4.2. ALL INSULATION SHALL BE CLOSED CELL ELASTOMERIC.
18. IN HANDICAPPED ACCESSIBLE AREAS, MOUNT CONTROLS AT 44" ABOVE FINISHED FLOOR.
19. PROVIDE FILTERS IN AHU'S DURING CONSTRUCTION. REPLACE WITH PLEATED MEDIA FILTERS AT SUBSTANTIAL COMPLETION.
20. LOCATE WALL AND ROOF TERMINATIONS AT THE SAME RELATIVE ELEVATION AND HORIZONTAL POSITION TO MAINTAIN AN UNIFORM APPEARANCE. WHEN IN DOUBT, COORDINATE PLACEMENT WITH ARCHITECT. PRIME COAT AND PAINT EXTERIOR TERMINATIONS TO MATCH BUILDING COLOR.
21. SLEEVE AND FIRE STOP PENETRATIONS THROUGH FIRE RATED SYSTEMS TO MAINTAIN RATING OF SYSTEM. USE MINIMUM GALVANIZED STEEL GAUGE DUCT AS REQUIRED TO MAINTAIN RATING OF SYSTEM.
22. PROVIDE MINIMUM 28 GAUGE GALVANIZED STEEL ROUND DUCT FOR DRYER AND BATH EXHAUST. ALUMINUM IS ALLOWED IF 26 GAUGE PER STATE MECHANICAL CODE AND ONLY IF 5 FT AWAY FROM FIRE RATED PENETRATIONS.
23. ASSEMBLE DRYER DUCTS WITHOUT SHEET METAL SCREWS OR OTHER FASTENERS EXTENDING INTO AIR STREAM. RUN EACH JOINT IN THE DIRECTION OF AIRFLOW TO AVOID CATCHING LINT. SEAL JOINTS WITH NON-COMBUSTIBLE MATERIAL.
24. COORDINATE ALL HVAC SYSTEM DRAWINGS WITH TRUSS MANUFACTURER DURING SHOP DRAWING REVIEW TO AVOID INTERFERENCES BETWEEN MECHANICAL SYSTEMS AND ROOF STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH TRUSS INTERFERENCES THAT OCCUR IN THE FIELD DURING CONSTRUCTION. COORDINATE IN ADVANCE.
25. PROVIDE ENGRAVED TAGS FOR ALL CU'S. MOUNT TAGS PERMANENTLY ON CU'S AND DISCONNECTS.
26. PROVIDE OUTSIDE AIR DUCTS AS GALVANIZED STEEL, EXTERNALLY INSULATED IN CONDITIONED SPACES, AHU ROOMS AND CAVITIES BETWEEN CONDITIONED FLOORS.
27. PROVIDE AN AIR BALANCE REPORT FOR THE SUPPLY AIR SYSTEM OF EACH AHU ON THE SCHEDULE. MEASURE THE AIRFLOW OUT OF EACH SUPPLY REGISTER AND ATTEMPT TO BALANCE THE SYSTEM TO THE AIRFLOW LISTED ON THE HVAC PLANS. LIST ANY DIFFICULTIES AND OBSERVATIONS. PERFORM THIS TEST AND BALANCE BEFORE ANY DUCTS ARE CLOSED IN WITH DRYWALL. HAVE THE AIR REGISTERS IN PLACE. PROVIDE TEMPORARY POWER AS REQUIRED. SUBMIT THIS REPORT TO THE ARCHITECT ON CONTRACTOR LETTERHEAD. THE PURPOSE OF THIS PROCEDURE IS TO DETECT AND SOLVE ANY AIRFLOW PROBLEMS WHILE OPTIMIZING THE SYSTEM.TEST AND BALANCE SHALL BE CONDUCTED BY A SEPARATE CONTRACTOR (OTHER THAN PROJECT HVAC CONTRACTOR) CERTIFIED PER AABC OR NEBB.

28. GENERAL

28.1 PROVIDE LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE SYSTEM AS OUTLINED IN THESE SPECIFICATIONS AND AS SHOWN ON DRAWINGS.
28.2 VERIFY ALL EQUIPMENT VOLTAGE CHARACTERISTICS WITH AVAILABLE VOLTAGE USED AT THE SITE PRIOR TO PURCHASING EQUIPMENT.

GENERAL NOTES

29. PRODUCTS

PRODUCTS: PROVIDE ALL EQUIPMENT AND MATERIALS NEW UNLESS NOTED OTHERWISE. SUBMIT CATALOG SHEETS AND/OR SHOP DRAWINGS OF ALL MATERIAL AND EQUIPMENT FOR APPROVAL FROM ARCHITECT/EGNINEER.

A. PIPING - PIPE FITTINGS SHALL BE COMPATIBLE WITH THE APPLICABLE PIPE MATERIALS. PROVIDE DIELECTRIC UNIONS FOR CONNECTIONS BETWEEN DISSIMILAR MATERIAL PIPING.

B. VALVES - VALVES SHALL BE PROVIDED ON SUPPLIES TO EQUIPMENT AND COILS. VALVES OF 2-1/2" AND SMALLER SHALL BE BRONZE WITH THREADED BODIES FOR PIPE AND SOLDER-TYPE CONNECTIONS FOR TUBING. VALVES OF 3" AND LARGER SHALL HAVE FLANGED IRON BODIES AND BRONZE TRIM.

C. DAMPERS - FIRE DAMPERS MUST COMPLY WITH UL555 AND SMOKE DAMPERS MUST COMPLY WITH UL555S PER THE IMC.

D. DUCTWORK - FABRICATE DUCTWORK AS INDICATED AND IN ACCORDANCE WITH SMACNA. CURVED ELBOWS SHALL HAVE A CENTERLINE RADIUS NOT LESS THAN 1-1/2" TIMES DUCT SIZE, PROVIDE TURNING VANES WHERE NOT POSSIBLE. PROVIDE MANUAL VOLUME DAMPERS ON ALL BRANCHES. INSULATE DUCT WITH MINIMUM OF 1-1/2" THICK FOIL SKIN INSULATION.

E. EQUIPMENT - PROVIDE ALL EQUIPMENT WITH HIGH EFFICIENCY MOTORS. EQUIPMENT TO BE AS SPECIFIED ON DRAWINGS, INSTALLED WITH ENERGY ISOLATING VALVES OR DEVICES TO PREVENT ACCIDENTAL START-UP. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

29.1 AIR DISTRIBUTION DEVICES: GRILLE REGISTERS AND DIFFUSERS SHALL BE BY ONE MANUFACTURER WITH CONSTRUCTION MATERIAL, FINISH AND ACCESSORIES AS SCHEDULED ON THE DRAWINGS.

29.2 DUCTWORK PER HOTEL STANDARDS SHALL BE: "GALVANIZED SHEET STEEL: COMPLY WITH ASTM A653/A653M"
29.3. GALVANIZED COATING DESIGNATION: G90 (Z275).
29.4. FINISHES FOR SURFACE EXPOSED TO VIEW: MILL PHOSPHATIZED.

A. EXHAUST, DRYER VENTS, RANGE HOOD VENTS AND OUTSIDE AIR INTAKE DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL. ALL SHEET METAL DUCTWORK SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING MASTIC SEALANT. PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS AND ANGLES FOR SUPPORT OF DUCTWORK.

B. SUPPLY AND RETURN AIR DUCTWORK SHALL BE CONSTRUCTED WITH CLOSED-CELL ELASTOMERIC INSULATION.

C. SUPPLY AND RETURN AIR DUCT WORK IN EXPOSED CEILING AREAS SHALL BE CONSTRUCTED OF SPIRAL METAL DUCT AND COMPLY WITH SMACNA.

D. SHEET METAL MATERIALS TO COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

29.5 PIPING: REFRIGERANT LINES SHALL BE TYPE ASTM B 208, TYPE ACR WITH ASME B16.50 WROUGHT COPPER FITTINGS. CONDENSATE PIPE AND FITTING SHALL BE PVC SCHEDULE 40 WITH SOLVENT WELDS.

30. EXECUTION:

30.1 THE MECHANICAL CONTRACTOR SHALL PROVIDE WIRING DIAGRAMS AND BE RESPONSIBLE FOR THE PROPER OPERATION OF THE MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL FURNISH THE WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR FOR COORDINATION PRIOR TO THE ELECTRICAL CONTRACTOR COMMENCING WORK.

30.2 TEST & BALANCE: THE DESIGNATED TEST AND BALANCE COMPANY SHALL TEST, BALANCE AND RECORD DATA FOR THE PERFORMANCE OF THE AIR CONDITIONING SYSTEM, INCLUDING SUPPLY, RETURN AND MAKEUP AIRFLOW. THE TEST AND BALANCE WORK SHALL BE PERFORMED IN ACCORDANCE WITH AABC OR NEBB STANDARDS. UPON COMPLETION OF TEST AND BALANCE WORK AND PRIOR TO REQUESTING FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT, SUBMIT THREE (3) COMPLETE COPIES OF THE TEST AND BALANCE REPORT TO THE ENGINEER FOR REVIEW.

30.3 GUARANTEE: THE CONTRACTOR SHALL GUARANTEE, THAT ALL WORK INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS. IF DURING THE PERIOD OF ONE YEAR, OR AS OTHERWISE SPECIFIED, FROM DATE OF CERTIFICATION OF COMPLETION AND ACCEPTANCE OF WORK, IF ANY DEFECTS IN WORKMANSHIP, MATERIALS OR PERFORMANCE APPEAR, THE CONTRACTOR SHALL, WITHOUT COST TO THE OWNER, REMEDY SUCH DEFECTS WITHIN A REASONABLE TIME.

30.4 PROPERTY DAMAGE: PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR THE PROPER INSTALLATION OF MATERIALS AND EQUIPMENT SPECIFIED IN THIS SECTION. DO NOT CUT OR DRILL STRUCTURAL MEMBERS WITHOUT THE CONSENT OF THE ARCHITECT/ENGINEER. CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE CAUSED BY HIS WORK UNDER THIS CONTRACT.

30.5 COMPLIANCE: ALL WORK AND MATERIAL SHALL BE SUBJECT TO INSPECTION AT ANY AND ALL TIMES BY REPRESENTATIVES OF THE ARCHITECT/ENGINEER. IF ARCHITECT OR ENGINEER OR OWNER'S INSPECTOR FINDS THAT ANY MATERIAL DOES NOT CONFORM WITH THESE DRAWINGS, THIS CONTRACTOR SHALL, WITHIN THREE WORKING DAYS AFTER BEING NOTIFIED BY THE ARCHITECT/ENGINEER, REMOVE THE MATERIAL. IF THE MATERIAL HAS BEEN INSTALLED, THE ENTIRE EXPENSE OF REMOVAL AND REPLACEMENT INCLUDING CUTTING AND PATCHING THAT MAY BE NECESSARY, SHALL BE BORNE BY THIS CONTRACTOR. WORK SHALL NOT BE CLOSED IN OR COVERED BEFORE INSPECTION AND APPROVAL BY THE ARCHITECT/ENGINEER OR REPRESENTATIVE. COST OF UNCOVERING AND MAKING REPAIRS WHERE UNINSPECTED WORK HAS BEEN CLOSED IN SHALL BE BORNE BY THIS CONTRACTOR.

30.6 CLEAN-UP: AT COMPLETION OF WORK, THIS CONTRACTOR SHALL CLEAN UP AND REMOVE ALL DEBRIS AND MATERIALS NOT INSTALLED IN WORK, LEAVING PREMISES CLEAN.

31. MINIMUM MATERIALS SPECIFICATIONS

THE FOLLOWING ARE MINIMUM MATERIALS SPECIFICATIONS RECOMMENDED TO ACHIEVE A SUBSTANTIALLY TIGHT INSTALLATION THAT WILL LAST:

31.1 ALL MATERIALS
A. SHALL HAVE A MINIMUM PERFORMANCE TEMPERATURE RATINGS PER UL181(DUCTS),UL181A(CLOSURE SYSTEMS FOR RIGID DUCTS), UL181B (CLOSURE SYSTEMS FOR FLEXIBLE DUCTS) AND/OR UL 181BM(MASTIC);
B. SHALL HAVE A FLAME SPREAD RATING OF NO MORE THAN 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 (ASTM E84).

31.2 FACTORY-FABRICATED DUCT SYSTEMS
A. ALL FACTORY-FABRICATED DUCT SYSTEMS SHALL INCLUDE UL 181 LISTED DUCTS WITH APPROVED CLOSURE SYSTEMS INCLUDING COLLARS, CONNECTIONS AND SPLICES.
B. ALL PRESSURE-SENSITIVE TAPES AND MASTICS USED IN THE MANUFACTURING OF FLEXIBLE DUCTS SHALL BE UL 181B(TAPE) OR UL 181BM (MASTIC).

31.3 FIELD-FABRICATED DUCT SYSTEMS
A. DUCTS: FIELD-FABRICATED DUCT SYSTEMS SHALL BE UL 181.
B. MASTIC SEALANTS AND MESH:
1. SEALANTS SHALL BE UL 181BM, NON-TOXIC, AND WATER RESISTANT;
2. SEALANTS FOR INTERIOR APPLICATIONS SHALL PASS ASTM C731 (EXTRUDABILITY AFTER AGING) AND ASTM 2202 (SLUMP TEST ON VERTICAL SURFACES).
3. SEALANTS AND MESHES SHALL BE RATED FOR EXTERIOR USE.
4. SEALANTS FOR EXTERIOR APPLICATIONS SHALL PASS ASTM C731,C732 (ARTIFICIAL WEATHERING TEST), AND D2202.
C. PRESSURE-SENSITIVE TAPES;
1. PRESSURE SENSITIVE TAPE SHALL MEET THE REQUIREMENTS OF THE FLEX DUCT MANUFACTURER.

LEGEND

SYMBOL	DESCRIPTION
	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	RETURN AIR DUCT (UP & DOWN)
	CEILING DIFFUSERS
	CEILING RETURN AIR GRILLE
	SIDE WALL REGISTER OR GRILLE
W x D	NEW DUCT - WIDTH x DEPTH
W x D	EXISTING DUCT TO REMAIN
	FLEXIBLE DUCTWORK
ØD	SPIRAL DUCT
	PIPE RISE UP
	PIPE DOWN OR DROP
	DUCT TRANSITION - CONCENTRIC
	DUCT TRANSITION - ECCENTRIC
	DUCT TRANSITION - RECT TO RND
	REFRIGERANT LINE
	CONDENSATE WATER
VD	MANUAL VOLUME DAMPER
CO	SMOKE/CO SENSOR
T	THERMOSTAT/SENSOR
	EXHAUST & VENT
	GRAVITY LOUVER
	FIRE SMOKE DAMPER
	FIRE DAMPER
	EXHAUST FAN
BD	BALANCING VOLUME DAMPER
SD	DUCT SMOKE DETECTOR/SMOKE DAMPER
	TRANSFER GRILLE
	CEILING-MOUNTED SQUARE SUPPLY AIR DIFFUSER
	SIDEWALL-MOUNTED SQUARE SUPPLY AIR GRILLE
	SIDEWALL-MOUNTED SUPPLY AIR GRILLE
	CEILING-MOUNTED SUPPLY AIR GRILLE
	CEILING-MOUNTED RETURN AIR DIFFUSER
	SIDEWALL-MOUNTED RETURN AIR GRILLE
	SIDEWALL-MOUNTED TRANSFER GRILLE
	CEILING-MOUNTED EXHAUST GRILLE
	CEILING-MOUNTED OA SUPPLY GRILLE

DAMPER

A	24x24	SUPPLY AIR DIFFUSER	FACE SIZE
1	500	NUMBER OF THE SAME SIZE DIFFUSER	AIR FLOW RATE

DAMPER

S	24x24	SUPPLY AIR GRILLE	FACE SIZE
1	500	NUMBER OF THE SAME SIZE GRILLE	AIR FLOW RATE

DAMPER

CS	24x6	SUPPLY AIR GRILLE	FACE SIZE
1	500	NUMBER OF THE SAME SIZE GRILLE	AIR FLOW RATE

DAMPER

MS	48x6	SUPPLY AIR GRILLE	FACE SIZE
1	500	NUMBER OF THE SAME SIZE GRILLE	AIR FLOW RATE

B	24x24	RETURN AIR DIFFUSER	FACE SIZE
1	500	NUMBER OF THE SAME SIZE DIFFUSER	AIR FLOW RATE

CR	24x6	RETURN AIR GRILLE	FACE SIZE
1	500	NUMBER OF THE SAME SIZE GRILLE	AIR FLOW RATE

TG	12x6	TRANSFER GRILLE	FACE SIZE
1	500	NUMBER OF THE SAME SIZE GRILLE	AIR FLOW RATE

E1	8x8	EXHAUST GRILLE	FACE SIZE
1	25	NUMBER OF THE SAME SIZE GRILLE	AIR FLOW RATE

D	8x8	OA GRILLE	FACE SIZE
1	35	NUMBER OF THE SAME SIZE GRILLE	AIR FLOW RATE

ABBREVIATIONS

AABC	ASSOCIATED AIR BALANCE COUNCIL
ABV	ABOVE
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHAP	AS HIGH AS POSSIBLE
AHU	AIR HANDLE UNIT
ARCH	ARCHITECT
BLDG	BUILDING
BSMT	BASEMENT
BTWN	BETWEEN
BTWN JTS	BETWEEN JOISTS
CAB	CABINET
CB	CATCH BASIN
CLG	CEILING
CO	CLEAN OUT
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CU	CONDENSING UNIT
CW	COLD WATER
CCU	CONDENSER UNIT
DBJ	DUCT BETWEEN JOISTS
DIA	DIAMETER
DAMPR	DAMPER
DN	DOWN
DP	DEEP
DRWG	DRAWING
DS	DOWN SPOUT
DSN	DOWN SPOUT NOZZLE
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EH	ELECTRICAL UNIT HEATER
EL	ELEVATION
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ENT	ENTERING
ER	EXHAUST REGISTER
EXIST	EXISTING
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FVD	FIRE VOLUME DAMPER
FLEX	FLEXIBLE
FLR	FLOOR
FM	FROM
FCU	FAN COALING UNIT
GA	GAUGE
GEN	GENERAL
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GV	GRAVITY VENTILATOR
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATING, A/C
IN	INCH
INSUL	INSULATION
INV	INVERT
JTS	JOISTS
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFGR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
MAU	MAKEUP AIR UNIT
MOD	MOTORIZED DAMPER
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OPNG	OPENING
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PLBG	PLUMBING
PRESS	PRESSURE
PRV	POWER ROOF VENTILATOR
PT	POINT
PU	PACKAGED UNIT
RD	ROOF DRAIN
REF	REFERENCE
REFRIG	REFRIGERATION
REG	REGISTER
REQ'D	REQUIRED
RET	RETURN
RIC	RETURN IN COVER
RWL	RAIN WATER LEADER
RTU	ROOF TOP UNIT
SAN	SANITARY
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SHT	SHEET
SP	STATIC PRESSURE
SPF	SUPPLY PRESSURIZATION FAN
SUP	SUPPLY
T/TC	TEMPERATURE CONTROL
TEMP	TEMPERATURE
TFGT	TOP OF FOOTING
TTJ	TIGHT TO JOISTS
TWJ	THRU WEB OF JOISTS
V	VENT
VD	VOLUME DAMPER
VEH	VEHICLE
VEST	VESTIBLE
VIB	VIBRATION
VRV	VARIABLE REFRIGERANT VOLUME
VTR	VENT THRU ROOF
W/	WITH

DRAWING INDEX

M001	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
M101	DETAILS-1
M102	DETAILS-2
M201	FIRST FLOOR MECHANICAL PLAN
M202	SECOND FLOOR MECHANICAL PLAN
M203	THIRD & FOURTH FLOOR MECHANICAL PLAN
M204	ROOF MECHANICAL PLAN
M301	SCHEDULES

JMAC ARCHITECTS
1273 Washington Pike, Bridgeville, PA 15017
t. 412.257.9010

BASE4
BASE4
3858 GLADES ROAD, #237
BOCA RATONFLORIDA 33434
1.720.72BASE4 www.base-4.com

SEAL

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — GARRY W. VERMAAS — ENGINEER — 74404

GARRY VERMAAS, PhD, PE
9011 EDGEWATER BEND
PARKLAND, FLORIDA, 33076

Hampton

ISSUE:

Issued for Permit
08.05.2016

PROJECT: 16-018

Hampton Inn & Suites
New Stanton, PA 15672

OWNER:

Stanton Hospitality LLC
52 Blueberry Lane,
Grove City, PA 16127

No.	Issue Date	Project Status

DATE	2016.08.05
DRAWN BY	HAB
CHECKED BY	GWV
SCALE	AS NOTED
PROJECT NO.	B4-67-1603

SHEET NAME
GENERAL NOTES, LEGENDS AND ABBREVIATIONS

SHEET NO.
M001