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TYPICAL SLEEPING UNIT WITH PTAC
PROVIDE CENTRAL DESK CONTROL READY COMPATIBLE, OWNER APPROVED,
HARD WIRED THERMOSTAT WITH OCCUPANCY SENSOR FOR VARIABLE SPEED
PTAC HEAT PUMP WITH AUX ELECTRIC HEAT.

ROOM FREEZE PROTECTION: HEAT INITIATED IF TEMPERATURE FALLS BELOW
40°F IN UNOCCUPIED ROOM.

SEPARATE HEATING AND COOLING SET POINTS SHALL BE ADJUSTABLE THROUGH
THE FRONT END. SLEEPING ROOM THERMOSTATS SHALL HAVE +/- 4°F
ADJUSTABILITY.

WHILE NOT RENTED OR CONTINUOUSLY UNOCCUPIED FOR 16 HOURS AS
DETERMINED BY THERMOSTAT OCCUPANCY SENSOR, SETBACK TEMPERATURE
SETPOINTS TO 80 °F COOLING AND 60°F HEATING.

60 MINUTES PRIOR TO SCHEDULED OCCUPANCY RESET SLEEPING UNIT HEATING
AND COOLING SETPOINTS TO OCCUPIED SETPOINTS.

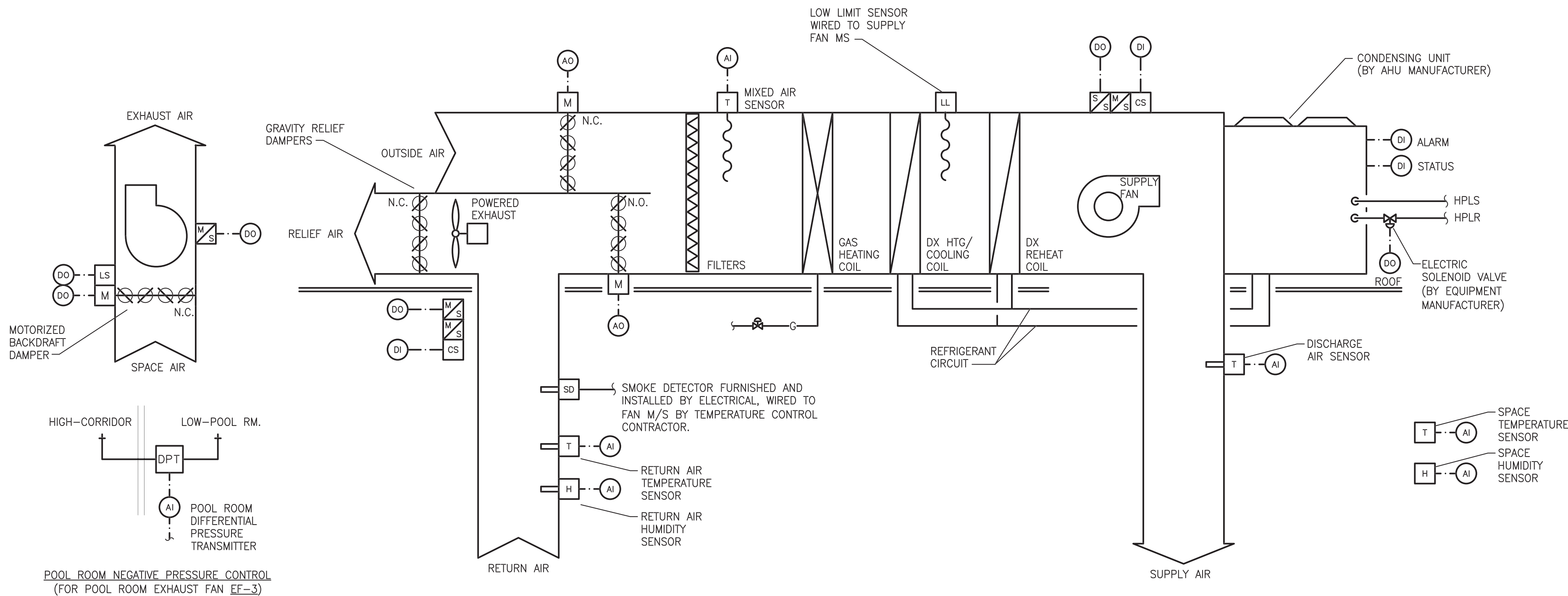
PTAC CONTROLS

NO SCALE

100% OA CAV GAS FIRED DX RTU WITH HOT GAS REHEAT

NO SCALE

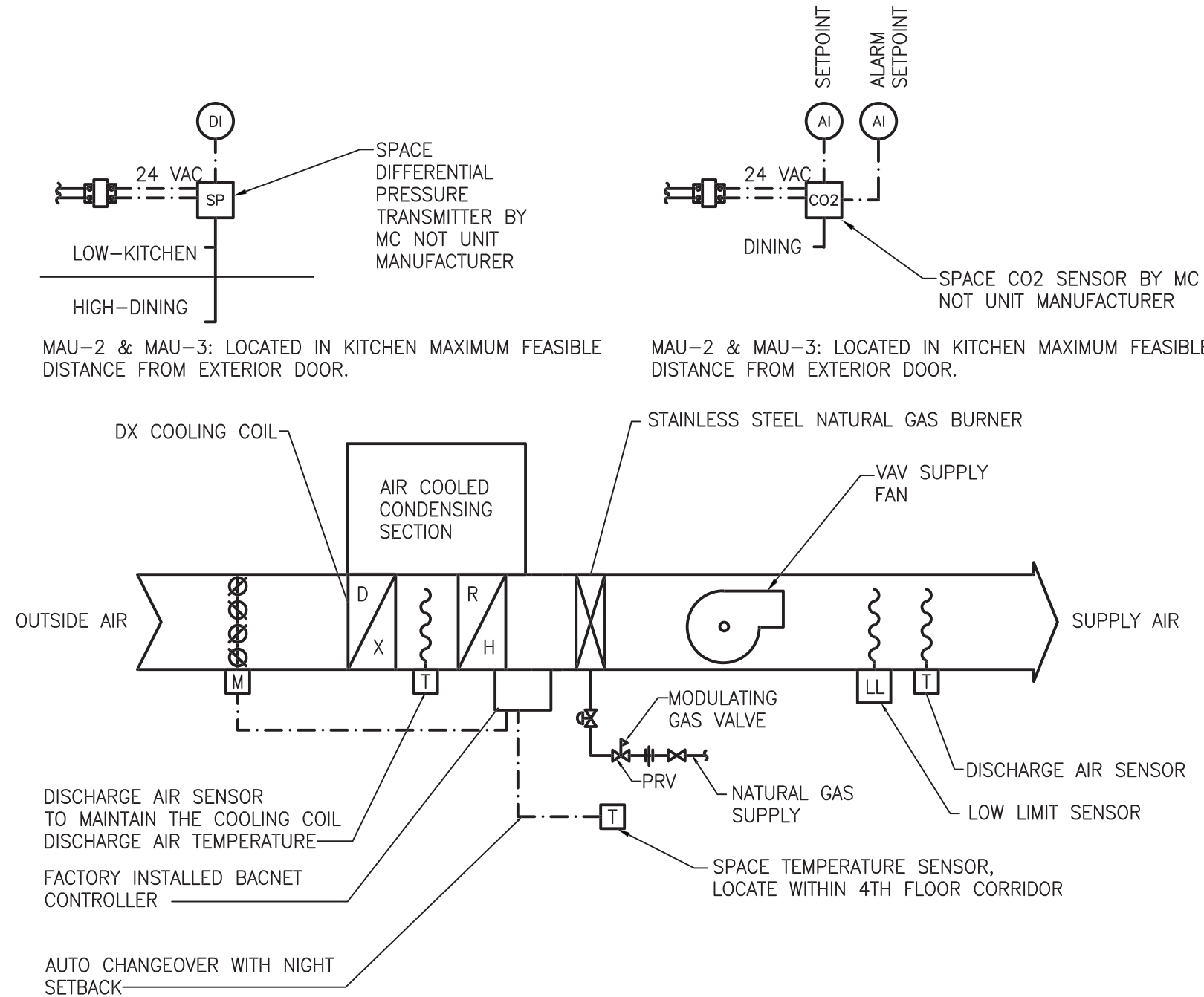
(RTU-1)



POOL DEHUMIDIFICATION UNIT CONTROL DIAGRAM

NO SCALE

(PDU-1)



FAN CONTROL: THE SUPPLY FAN SHALL BE STARTED/STOPPED DURING
OCCUPIED/UNOCCUPIED PERIODS BY THE BMS DIRECT DIGITAL
CONTROLLER (DDC) ACCORDING TO THE MENU DRIVEN, WEEKLY
SCHEDULING PROGRAM WHEN THE VFD IS IN THE AUTO POSITION. UPON
A CALL FOR OPERATION FROM THE BMS, THE OUTSIDE AIR DAMPER SHALL
MODULATE FULLY OPEN. WHEN OUTSIDE AIR DAMPER IS PROVEN OPEN,
THE SUPPLY FAN SHALL BE ENERGIZED. OUTSIDE AIR DAMPER SHALL FAIL
CLOSED. PROVIDE NOTIFICATION THROUGH THE BMS IN THE EVENT OF
DAMPER FAILURE.

HEATING: THE DISCHARGE TEMPERATURE SENSOR THROUGH THE
UNIT CONTROLLER SHALL ENERGIZE THE NATURAL GAS BURNER
TO MAINTAIN A DISCHARGE TEMPERATURE SENSOR SETPOINT. THE
DISCHARGE TEMPERATURE SETPOINT SHALL BE 70°F (ADJUSTABLE).

COOLING: THE COOLING DISCHARGE TEMPERATURE SENSOR
THROUGH THE UNIT CONTROLLER SHALL SUBCOOL THE OUTSIDE
AIR TO A SET TEMPERATURE OF 55°F (ADJUSTABLE) THROUGH
THE D/X COOLING COIL. THIS IS TO REDUCE THE MOISTURE IN
THE AIR WHEN THE SPACE TEMPERATURE SENSOR IS SATISFIED;
OTHERWISE CONTROL TO THE SPACE TEMP AND %RH SETPOINTS.
THE DISCHARGE TEMPERATURE SENSOR THROUGH THE UNIT
CONTROLLER SHALL MODULATE THE REHEAT COIL TO MAINTAIN A
SET DISCHARGE TEMPERATURE OF 70°F (ADJUSTABLE). THE
SUPPLY AIR TEMPERATURE SHALL BE RESET UP ONE DEGREE (F) WHEN
SPACE TEMPERATURE SENSOR IS BELOW THE COOLING SETPOINT
DEADBAND FOR 5 MINUTES (OVERCOOLING IS OCCURRING). REPEAT THE
RESET ROUTINE UNTIL SENSOR HAS ACHIEVED SETPOINT. IF SPACE IS
BEING UNDERCOOLED, SUPPLY AIR TEMPERATURE SHALL BE RESET DOWN
ONE DEGREE (F) WHEN SPACE SENSOR IS ABOVE THE COOLING SETPOINT
DEADBAND FOR FIVE MINUTES (UNDERCOOLING IS OCCURRING). IF SPACE
UNDERCOOLING CONTINUES TO OCCUR, RESET THE SUPPLY AIR
TEMPERATURE DOWN ONE DEGREE (F) UNTIL THE SPACE SETPOINT IS
SATISFIED. THE SPACE TEMPERATURE SENSOR SETPOINT SHALL BE
70°F (ADJUSTABLE).

SAFETY DEVICES: THE LOW LIMIT THERMOSTAT WILL PREVENT THE
FANS FROM OPERATING WHEN THE DISCHARGE AIR FALLS BELOW
45°F (ADJUSTABLE). ONCE TRIPPED, THIS DEVICE MUST BE

MANUALLY RESET BEFORE THE FANS WILL RESUME OPERATION.

SYSTEM SHALL FUNCTION AS STAND-ALONE SYSTEM AND WHEN
THE FIRE ALARM SYSTEM IS ACTIVATED SUPPLY FAN SHALL STOP.
SYSTEM SHALL AUTOMATICALLY RESUME SCHEDULED OPERATION FOLLOWING
RESET OF THE FIRE ALARM CONTROL PANEL TO NORMAL. MOTORIZED
OUTSIDE AIR DAMPER SHALL FAIL SHUT.

DEMAND CONTROLLED VENTILATION (MAU-2 & MAU-3): DURING OCCUPIED
MODE, UNLESS OVERRIDDEN BY PRESSURE OVERRIDE ROUTINE (BY TCC),
SUPPLY AIR FAN SHALL MODULATE IN RESPONSE TO SPACE CO2 SENSOR
CONCENTRATIONS. THE ALLOWABLE CO2 CONCENTRATION FOR ANY SENSOR
SHALL BE 1000 PPM (ADJ). THE MAXIMUM CO2 CONCENTRATION SHALL
BE 1500 PPM (ADJ). SUPPLY AIR FAN AIRFLOW SHALL RAMP LINEARLY
FROM DCV MINIMUM TO MAXIMUM. AFTER MEASURED CONCENTRATION HAS
DROPPED BELOW THE ALLOWABLE CONCENTRATION FOR 15 MINUTES (ADJ),
SUPPLY AIR FAN SHALL MODULATE TO MAINTAIN MINIMUM OA AIRFLOW.

PRESSURE OVERRIDE ROUTINE (MAU-2 & MAU-3)
THE TEMPERATURE CONTROLS CONTRACTOR SHALL COORDINATE WITH UNIT
CONTROLLER MANUFACTURER TO PROVIDE ADDITIONAL TEMPERATURE
CONTROLS TO OVERRIDE DCV AND MODULATE THE SUPPLY FAN TO
MAINTAIN MINIMUM POSITIVE (+) 0.05" W.G. PRESSURE AS MEASURED
FROM THE SPACE DIFFERENTIAL PRESSURE TRANSMITTER ACROSS DINING
AND KITCHEN. SUPPLY AIR FAN AIRFLOW SHALL RAMP LINEARLY.

SEQUENCE OF OPERATION (REFER TO SPECIFICATIONS FOR
ADDITIONAL INFORMATION)

THE SYSTEM SHALL BE DESIGNED AND SIZED TO MAINTAIN THE
SPECIFIED SPACE CONDITIONS

- SYSTEM STARTUP
 - POWER IS TURNED ON OR THE SYSTEM IS RESTARTED
 - AFTER A SHORT INITIAL DELAY TO ALLOW THE SENSORS TO STABILIZE, THE BLOWER STARTS AND OPERATES CONTINUOUSLY
 - BASED ON SENSOR FEEDBACK, THE SYSTEM SHALL BEGIN OR RESUME OPERATION BASED ON THE SEQUENCE BELOW
- AIRSIDE CONFIGURATION
 - THE SYSTEM CONTINUOUSLY DELIVERS THE SPECIFIED SUPPLY AIR VOLUME TO THE MATATORIUM
 - THE MINIMUM EXHAUST AIR VOLUME IS SET TO MEET THE ENGINEER'S SCHEDULE.
 - THE MINIMUM OUTDOOR AIR VOLUME IS SET TO MEET THE ENGINEER'S SCHEDULE.
- DEHUMIDIFICATION MODE
 - THE RETURN AIR RELATIVE HUMIDITY IS ABOVE THE HUMIDITY SETPOINT
 - RETURN AIR DEWPOINT IS ABOVE DEWPOINT SETPOINT.
 - THE COMPRESSOR ENTERS THE COMPRESSOR START SEQUENCE
- AIR CONDITIONING MODE
 - THE RETURN AIR TEMPERATURE IS ABOVE THE ROOM TEMPERATURE SETPOINT
 - THE COMPRESSOR STARTS, IF NOT ALREADY OPERATING IN DEHUMIDIFICATION MODE
 - EXCESS COMPRESSOR HOT GAS IS DIVERTED TO THE OUTDOOR AIR COOLED CONDENSER FOR UP TO 100% HEAT REJECTION AT SUMMER DESIGN AMBIENT CONDITIONS
- SPACE HEATING MODE
 - THE RETURN AIR TEMPERATURE IS BELOW THE ROOM

TEMPERATURE SETPOINT

- THE MICROPROCESSOR SPACE HEATING OUTPUT SIGNAL (0-10 VOLTS) IS SENT TO THE HEATING COIL CONTROLLER. THE SIGNAL OUTPUT WILL REGULATE BASED ON THE RETURN AIR TEMPERATURE
- POOL-WATER-HEATING-MODE
 - THE RETURN-POOL-WATER-TEMPERATURE-IS-BELOW-THE-POOL-WATER-SETPOINT
 - IF-THE-COMPRESSOR-IS-ALREADY-OPERATING-DUE-TO-A-DEHUMIDIFICATION-OR-AIR-CONDITIONING-DEMAND, THE CONTROL VALVES WILL DIVERT THE COMPRESSOR HOT GAS THROUGH THE COAXIAL-HEAT-EXCHANGER-TO-HEAT-THE-POOL-WATER, WITH THE REMAINDER REJECTED AT THE AIR REHEAT COIL OR THE AG-HEAT-EXCHANGER
 - IF-THERE-IS-NO-PRE-EXISTING-DEMAND-FOR-THE-COMPRESSOR-TO-OPERATE, THE MICROPROCESSOR SENDS-A-SIGNAL-TO-THE-AUXILIARY-POOL-WATER-HEATER (REMOTE-BY-OTHERS)-TO-OPERATE. THE COMPRESSOR WILL NOT-OPERATE-SOLELY-FOR-A-POOL-WATER-HEATING-DEMAND-UNLESS-SPECIFICALLY-CONFIGURED-TO-DO-SO-AT-THE-CONTROLLER
- FREEZE PROTECTION
 - THE SUPPLY AIR TEMPERATURE FALLS BELOW THE FREEZESTAT SETPOINT OR THE OPTIONAL FREEZESTAT SENSOR INDICATES A FREEZESTAT CONDITION
 - EXHAUST FAN(S) ARE STOPPED AND OUTDOOR AIR DAMPER(S) ARE FULLY CLOSED
 - WHEN THE FREEZESTAT ALARM IS TRIPPED, IT MUST BE MANUALLY CLEARED BY THE OPERATOR
 - EXHAUST FAN EF-3 SHALL BE INTERLOCKED WITH THE PDU-1 OCCUPANCY SCHEDULE. EF-3' ASSOCIATED MOTORIZED DAMPER SHALL PROVE OPEN PRIOR TO ENERGIZING FAN. EF-3 SHALL MODULATE TO MAINTAIN NEGATIVE 0.05" W.G. IN POOL ROOM (ADJ. VIA VARI-GREEN CONTROLLER IN PUMP ROOM; LOCATION TO BE COODINATED).



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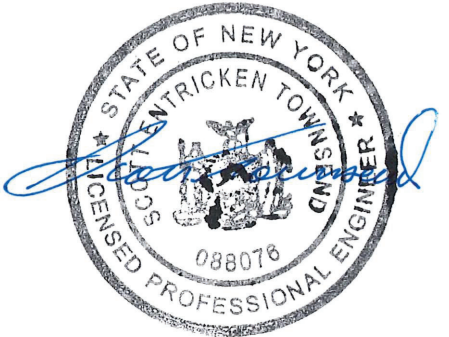
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Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21



04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN
EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS &
SUITES NANUET

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Sheet Title :
TEMPERATURE
CONTROLS

Project No. :
2018.009

Sheet No. :
M800

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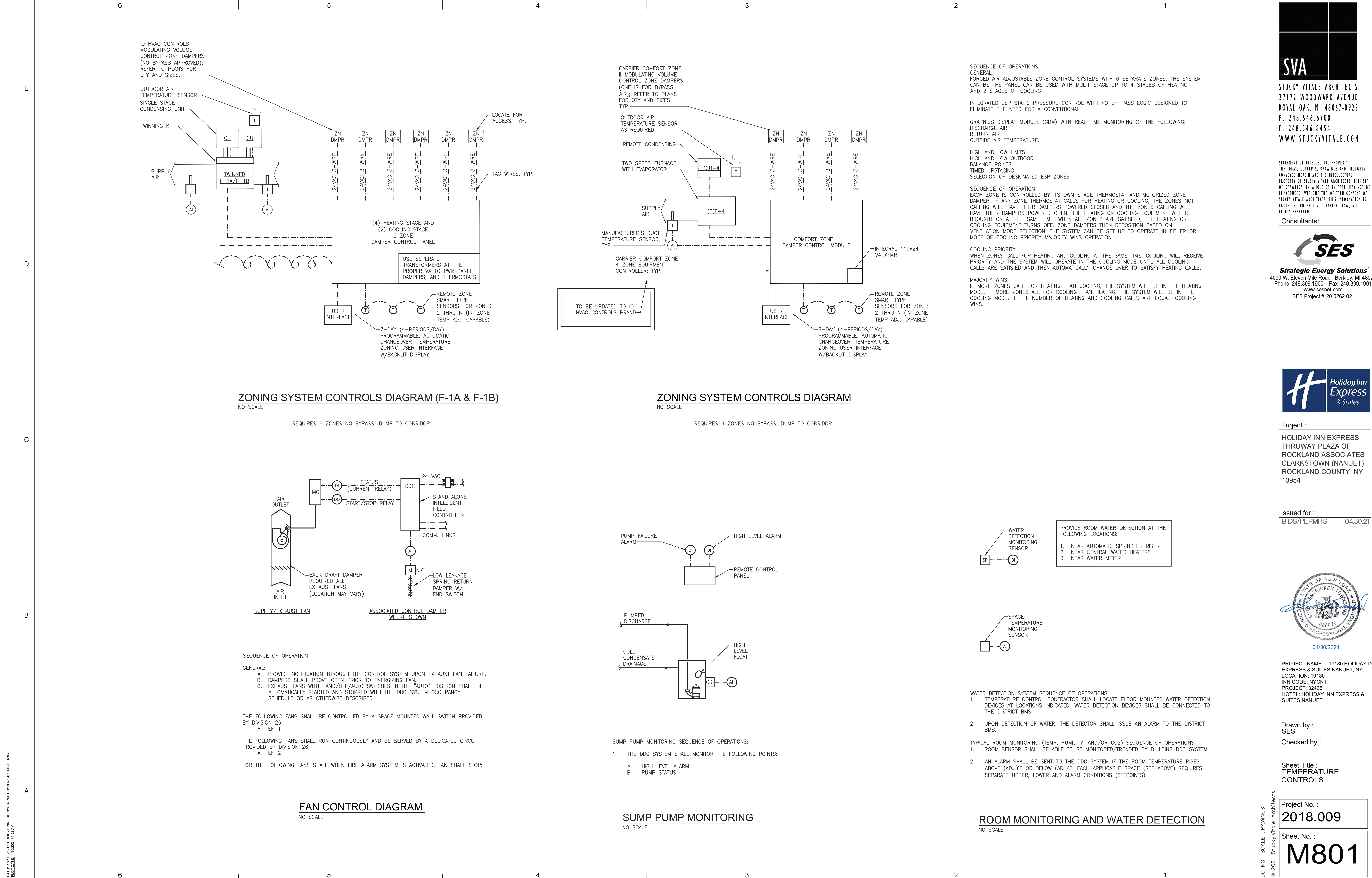
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PROJECT: 32435
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Consultants:



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SES Project # 20 0262 02



Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
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Sheet Title :
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CONTROLS

Project No. :
2018.009

Sheet No. :
M801

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MECHANICAL ABBREVIATIONS	
ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
ASR	AUTOMATIC SPRINKLER RISER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEAN OUT
CONT	CONTINUATION OR CONTINUED
CONV	CONVECTOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EA/EXH	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWV	ELECTRIC WATER COOLER
*F	DEGREES FAHRENHEIT
FA	FACE AREA (COIL) / FREE AREA (LOUVER)
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FFD	FUNNEL FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FS	FLOOR SINK
FT	FEET
FURN	FURNISHED
FV	FACE VELOCITY
FVC	FIRE VALVE CABINET
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HO	HUB OUTLET
HP	HORSEPOWER

MECHANICAL ABBREVIATIONS	
ABBREV.	DESCRIPTION
HR	HOUR
HTG	HEATING
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INST	INSTALLED
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
IW	INDIRECT WASTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.C.	NOISE CRITERIA
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOM	NOMINAL
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER / CENTER TO CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
ORS	OVERFLOW ROOF SUMP
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
PT	PRESSURE / TEMPERATURE PORT
RA	RETURN AIR
RH	RELATIVE HUMIDITY
REQD	REQUIRED
REL.A	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	ROOF SUMP
SA	SUPPLY AIR
SH	SHOWER
SP	STATIC PRESSURE
SqFt / SF	SQUARE FOOT/SQUARE FEET
SS	SERVICE SINK
TC	TEMPERATURE CONTROL
T & P	TEMPERATURE AND PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE

MECHANICAL ABBREVIATIONS	
ABBREV.	DESCRIPTION
UR	URINAL
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VTR	VENT THRU ROOF
W	WASTE
W&V	WASTE AND VENT
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WG	WATER GAUGE
WH	WALL HYDRANT

MECHANICAL PIPING SYMBOLS	
ABBREV.	DESCRIPTION
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	DIRECTION OF FLOW
	UNION
	STRAINER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	PIPE CAP OR PLUG
	ISOLATION VALVE
	CIRCULATING PUMP
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	BACKWATER VALVE
	ANGLE VALVE
	CHECK VALVE (SWING)
	CHECK VALVE (SPRING)
	PLUG VALVE
	NEEDLE VALVE
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	CONTROL VALVE (2-WAY / 3-WAY)
	CENTRIFUGAL FAN
	AUTOMATIC GAS SHUT-OFF VALVE
	TRAP (PLAN VIEW)
	FLOOR DRAIN / FUNNEL FLOOR DRAIN (PLAN VIEW)
	FLOOR DRAIN / FUNNEL FLOOR DRAIN (ELEVATION)
	ROOF SUMP
	CLEAN OUT (IN FLOOR)
	CLEAN OUT (IN LINE)
	CLEAN OUT (WALL)
	BACKFLOW PREVENTER
	WATER METER ASSEMBLY
	HOSE BIBB, WALL HYDRANT
	DIRECTION OF PIPE PITCH
	SPRINKLER HEAD (UPRIGHT)
	SPRINKLER HEAD (SIDEWALL)
	FLOW SWITCH
	SIAMESE CONNECTION (YARD)
	SIAMESE CONNECTION (WALL MOUNTED)
	FIRE HYDRANT
	FLOW MEASURING DEVICE
	BALANCING VALVE
	COMBINATION FLOW MEASURING AND BALANCING DEVICE
	AUTOMATIC AIR VALVE
	MANUAL AIR VALVE









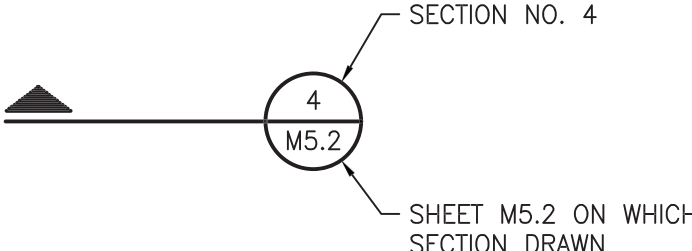
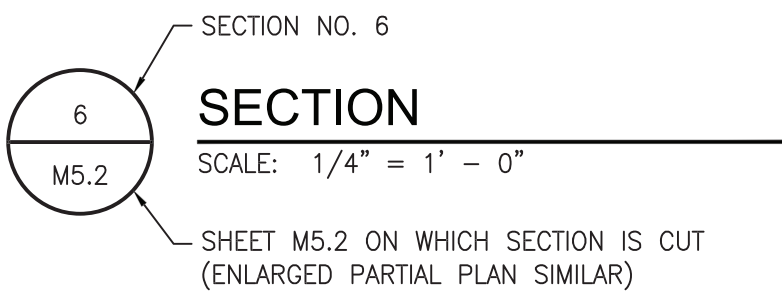
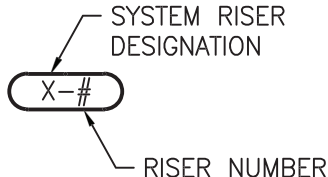
MECHANICAL SYMBOLS	
ABBREV.	DESCRIPTION
	RECTANGULAR TAKE-OFF (SINGLE LINE)
	RECTANGULAR TAKE-OFF (DOUBLE LINE)
	ROUND TAKE-OFF (SINGLE LINE)
	ROUND TAKE-OFF (DOUBLE LINE)
	SPIN-IN FITTING (WITH VOLUME DAMPER)
	ELBOW (WITH TURNING VANES)
	RADIUS RECTANGULAR ELBOW
	RADIUS ROUND ELBOW
	RECTANGULAR ELBOW UP
	ROUND ELBOW UP
	RECTANGULAR ELBOW DOWN
	ROUND ELBOW DOWN
	CONCENTRIC TRANSITION (DOUBLE LINE)
	CONCENTRIC TRANSITION (SINGLE LINE)
	ECCENTRIC TRANSITION (DOUBLE LINE)
	ECCENTRIC TRANSITION (SINGLE LINE)
	INCLINED RISE IN DIRECTION OF AIR FLOW (DOUBLE LINE)
	INCLINED RISE IN DIRECTION OF AIR FLOW (SINGLE LINE)
	INCLINED DROP IN DIRECTION OF AIR FLOW (DOUBLE LINE)
	INCLINED DROP IN DIRECTION OF AIR FLOW (SINGLE LINE)
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER
	SUPPLY DIFFUSER
	LINEAR SLOT DIFFUSER
	RETURN OR EXHAUST GRILLE
	TRANSFER GRILLE
	CROSS SECTION OF SUPPLY AIR DUCT
	CROSS SECTION OF EXHAUST OR RETURN AIR DUCT
	EXISTING FIRE DAMPER (HORIZONTAL)
	NEW FIRE DAMPER (HORIZONTAL)
	EXISTING FIRE DAMPER (VERTICAL)
	NEW FIRE DAMPER (VERTICAL)
	EXISTING SMOKE DAMPER
	NEW SMOKE DAMPER
	EXISTING COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
	NEW COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
	EXISTING COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)
	NEW COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)
	VOLUME DAMPER (MANUALLY ADJUSTABLE)
	MOTORIZED DAMPER
	SMOKE DETECTOR
	CO2 SENSOR
	THERMOSTAT OR TEMPERATURE SENSOR
	HUMIDISTAT OR HUMIDITY SENSOR
	RETURN OR EXHAUST / SUPPLY AIR FLOW

PIPING LEGEND	
ABBREV.	DESCRIPTION
	COMPRESSED AIR PIPING
	CONDENSATE DRAIN PIPING
	DRAIN TILE
	FIRE PROTECTION PIPING
	FUEL OIL RETURN PIPING
	FUEL OIL SUPPLY PIPING
	NATURAL GAS PIPING
	BOOSTED-DOMESTIC COLD WATER PIPING
	BOOSTED-DOMESTIC HOT WATER PIPING
	DOMESTIC COLD WATER PIPING
	NON POTABLE COLD WATER PIPING
	TEMPERED WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC 140°F HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
	SANITARY WASTE PIPING
	PUMPED SANITARY PIPING
	VENT PIPING
	STORM SEWER PIPING
	PUMPED STORM PIPING
	RAIN CONDUCTOR PIPING
	OVERFLOW RAIN CONDUCTOR PIPING
	REFRIGERANT LIQUID PIPING
	REFRIGERANT SUCTION PIPING
	HOT GAS BY-PASS PIPING

APPLICABLE CODES AND REGULATIONS	
YEAR	CODE
2020	BUILDING CODE OF NEW YORK STATE
2020	ENERGY CONSERVATION CODE OF NYS
2020	PLUMBING CODE OF NYS
2020	MECHANICAL CODE OF NYS
2020	FIRE CODE OF NYS
2020	FUEL GAS CODE OF NYS
2017	NFPA 96
2016	NFPA 13, NFPA 14, NFPA 20
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN (DOJ)

WATER FLOW TEST DATA		
DATE PERFORMED	REPORTED PRESSURES	
08-14-2019	STATIC	RESIDUAL
	36 PSI @ 840 GPM	33.7 PSI @500 GPM

DRAWING INDEX	
SHT NO	Sheet Title
M000.M	MECHANICAL GENERAL INFORMATION
M110.M	FIRST FLOOR MECHANICAL PLAN
M120.M	SECOND FLOOR MECHANICAL PLAN
M130.M	THIRD FLOOR MECHANICAL PLAN
M140.M	FOURTH FLOOR MECHANICAL PLAN
M150.M	FIFTH FLOOR MECHANICAL PLAN
M400.M	ENLARGED MECHANICAL PLANS
M401.M	ENLARGED MECHANICAL PLANS

DRAWING NOTATION		
SYMBOL	DESCRIPTION	
	NEW WORK KEY NOTE NO. 1	
	DEMOLITION KEY NOTE NO. 1	
	EQUIPMENT TAG	
	AIR TERMINAL TAG: IE: DIFFUSER TYPE = S-1 NECK SIZE = 10x10 CFM = 100 (TYPICAL FOR 2)	S = SUPPLY R = RETURN E = EXHAUST T = TRANSFER
	EXISTING DEVICES OR EQUIPMENT	
	NEW OR MODIFIED DEVICES OR EQUIPMENT	
	EXISTING SYSTEM COMPONENT TO BE REMOVED	
	POINT OF NEW CONNECTION	
		
		
		
S: SANITARY D: DOMESTIC WATER H: HVAC PIPING SP: STAIRWELL PRESSURIZATION V: VENT E: EXHAUST		



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SES Project # 20 0262 02



Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21



04/30/2021
PROJECT NAME: L 19180 HOLIDAY INN
EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS &
SUITES NANUET

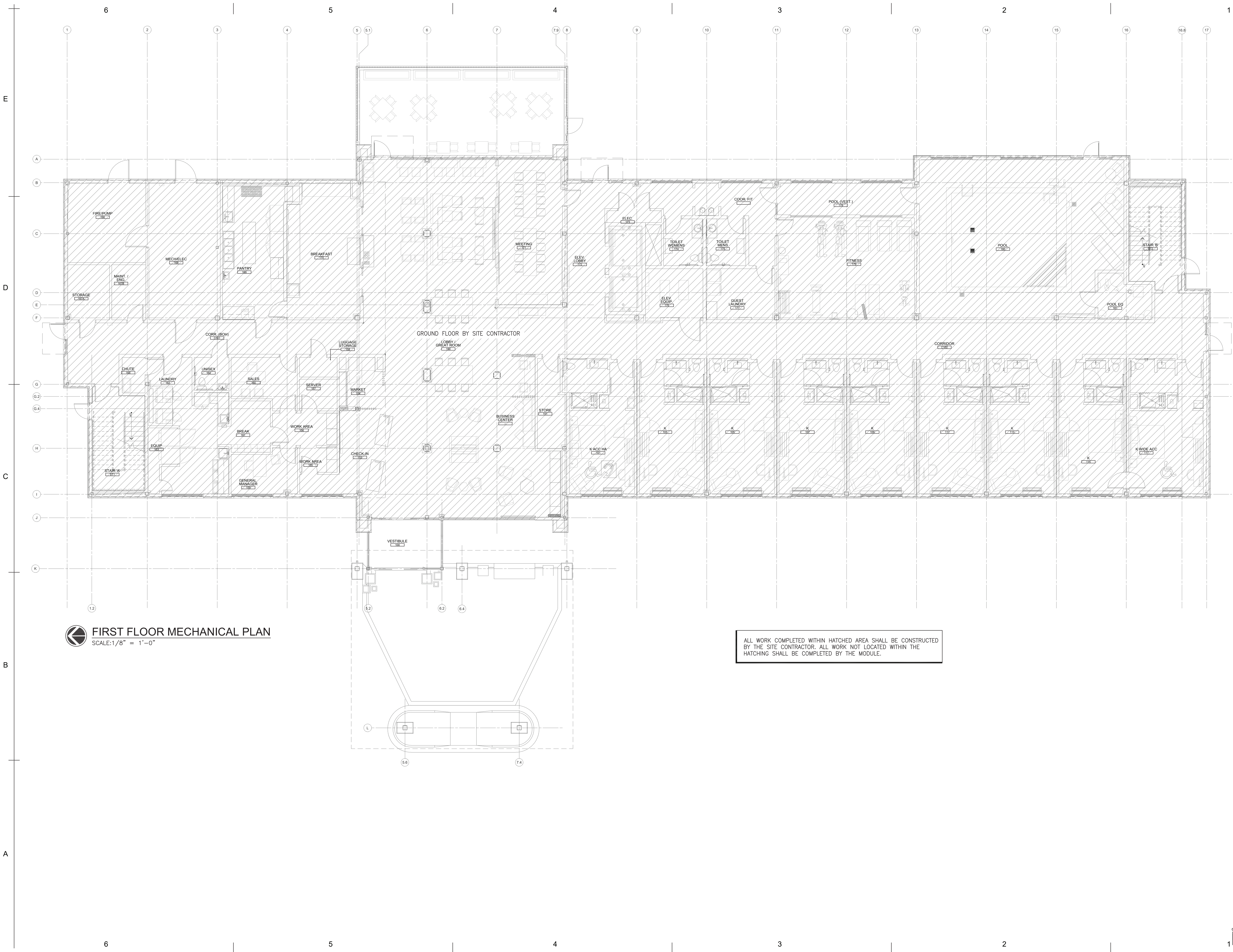
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Sheet Title :
MECHANICAL
GENERAL
INFORMATION

Project No. :
2018.009

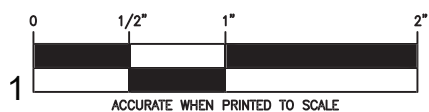
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 **FIRST FLOOR MECHANICAL PLAN**
SCALE: 1/8" = 1'-0"

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EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS &
SUITES NANUET

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Sheet Title :
FIRST FLOOR
MECHANICAL PLAN

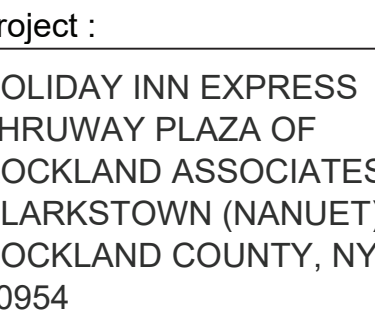
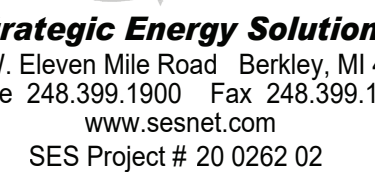
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HVAC GENERAL NOTES

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4/30/2021

PROJECT NAME: L 19180 HOLIDAY
EXPRESS & SUITES NANUET, NY
LOCATION: 19180
IN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS &
SUITES NANUET

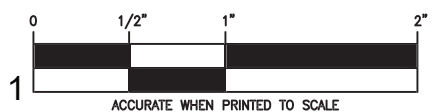
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SECOND FLOOR
MECHANICAL PLAN

Project No. :
2018.009

Sheet No. : **M120 M**



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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS &
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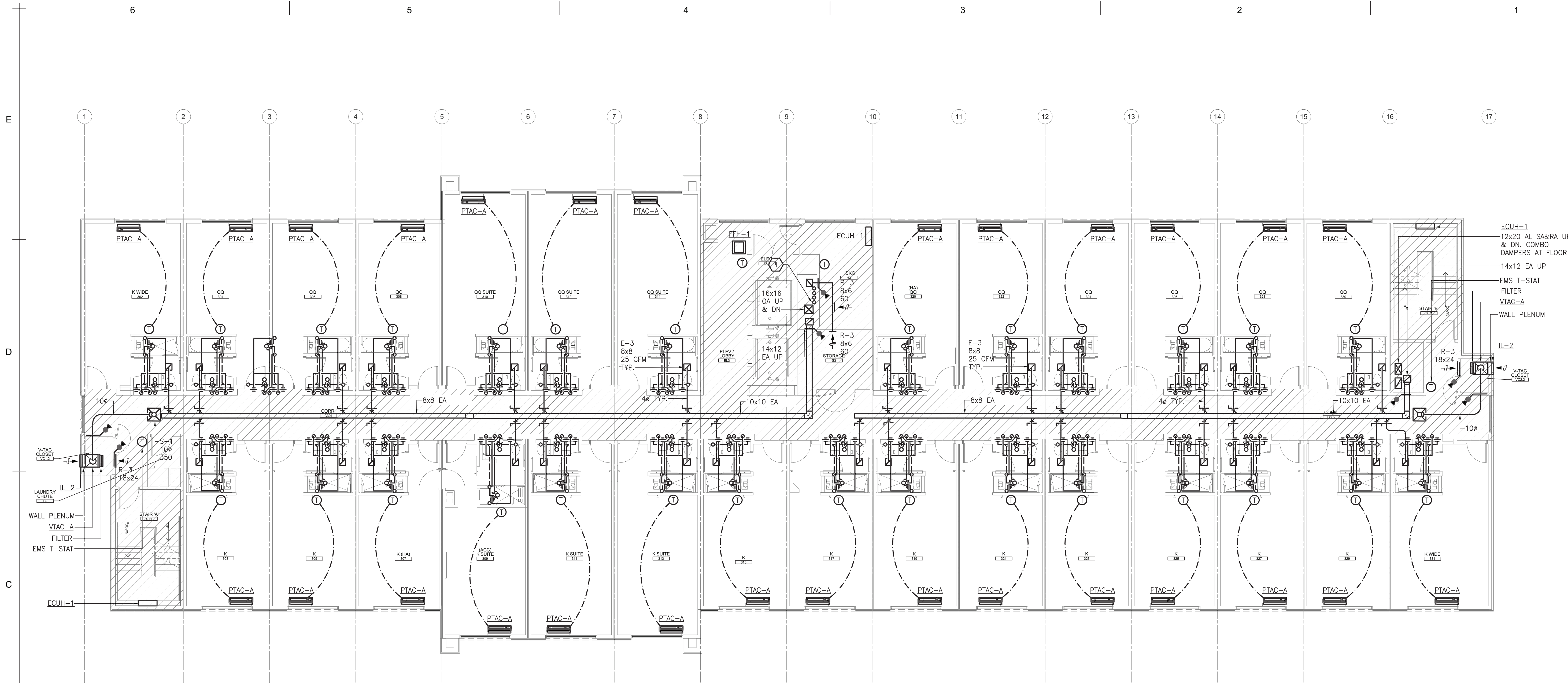
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THIRD FLOOR
MECHANICAL PLAN

Project No. :
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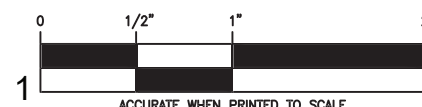


THIRD FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

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BY THE SITE CONTRACTOR. ALL WORK NOT LOCATED WITHIN THE
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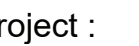
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ROCKLAND COUNTY, NY
0954

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IN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS &
SUITES NANUET

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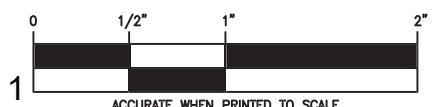
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FOURTH FLOOR
MECHANICAL PLAN

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04/30/2021

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INN CODE: NYCNT
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HOTEL: HOLIDAY INN EXPRESS &
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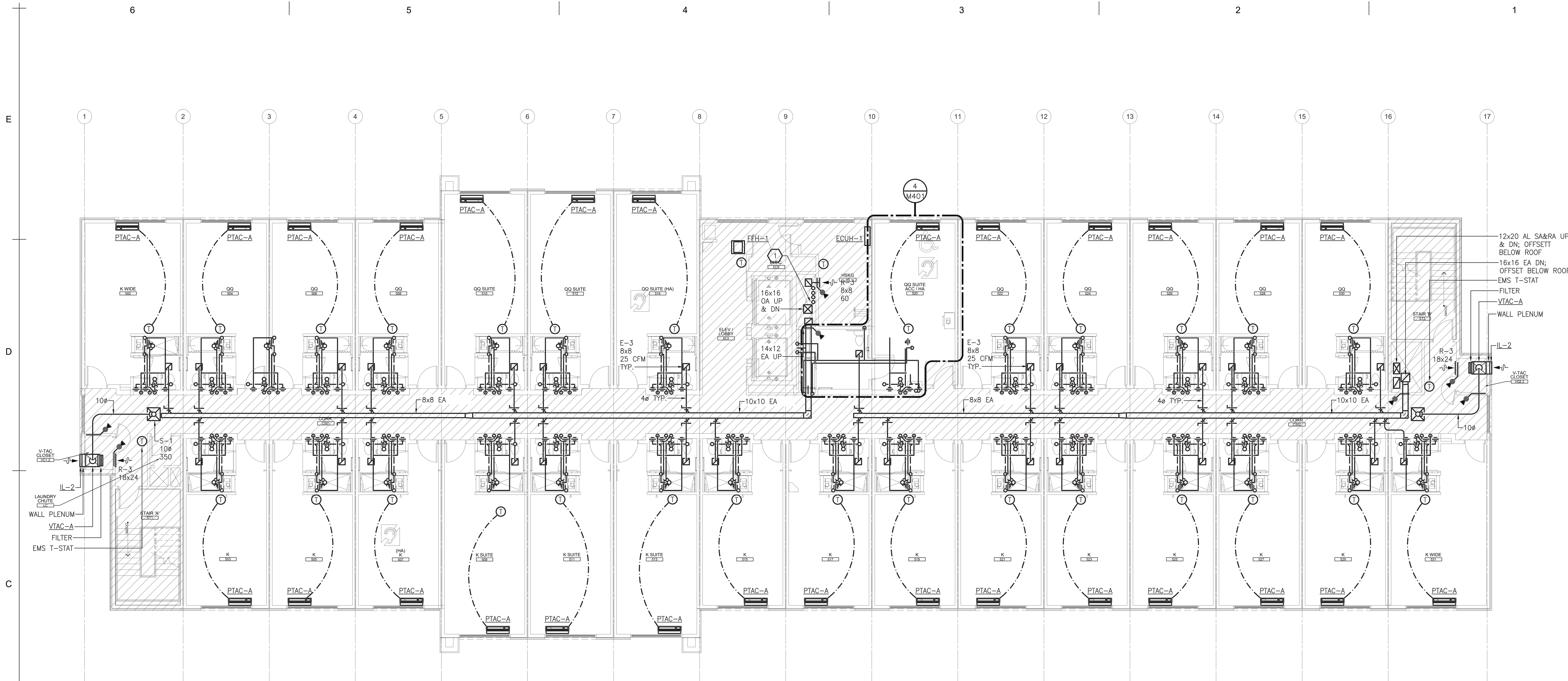
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FIFTH FLOOR
MECHANICAL PLAN

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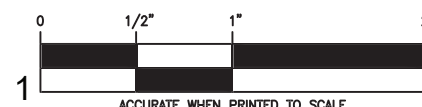


FIFTH FLOOR MECHANICAL PLAN
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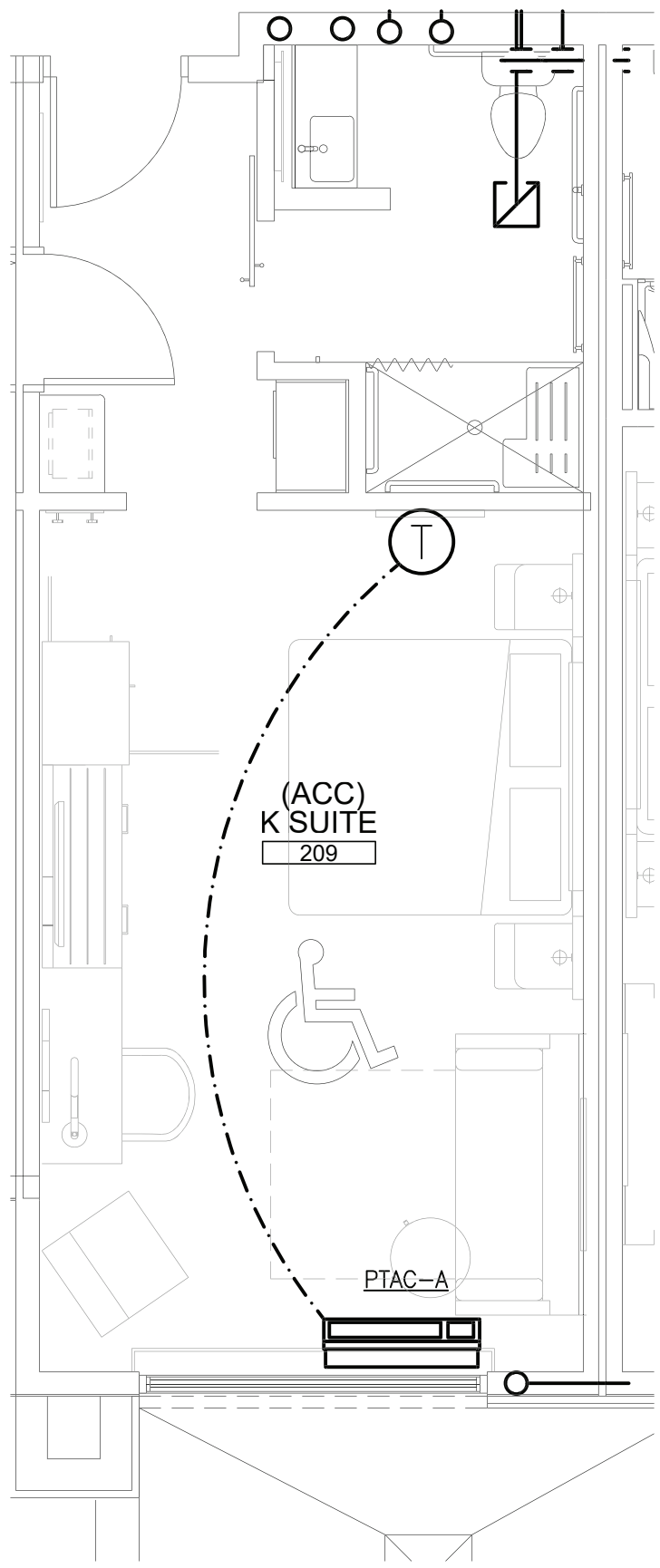
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HVAC GENERAL NOTES

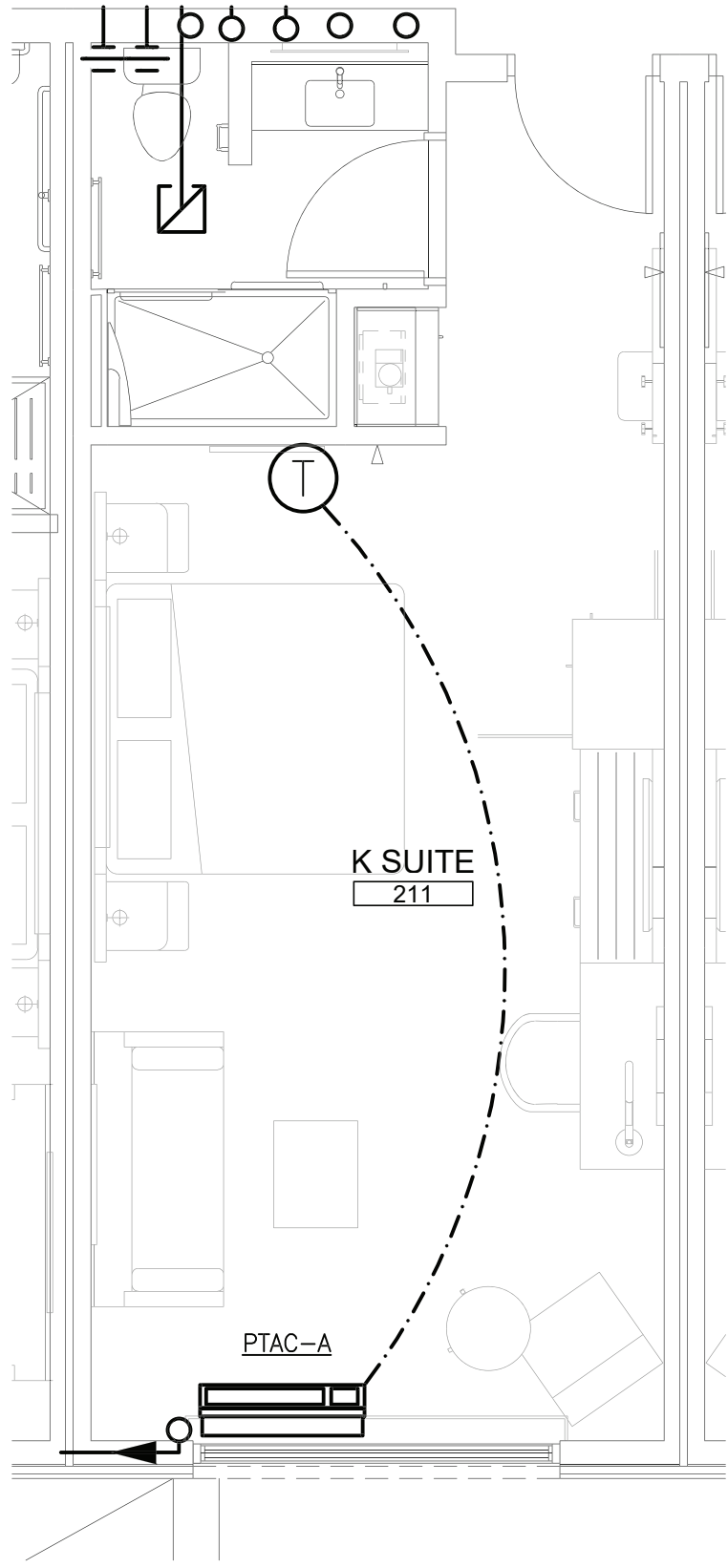
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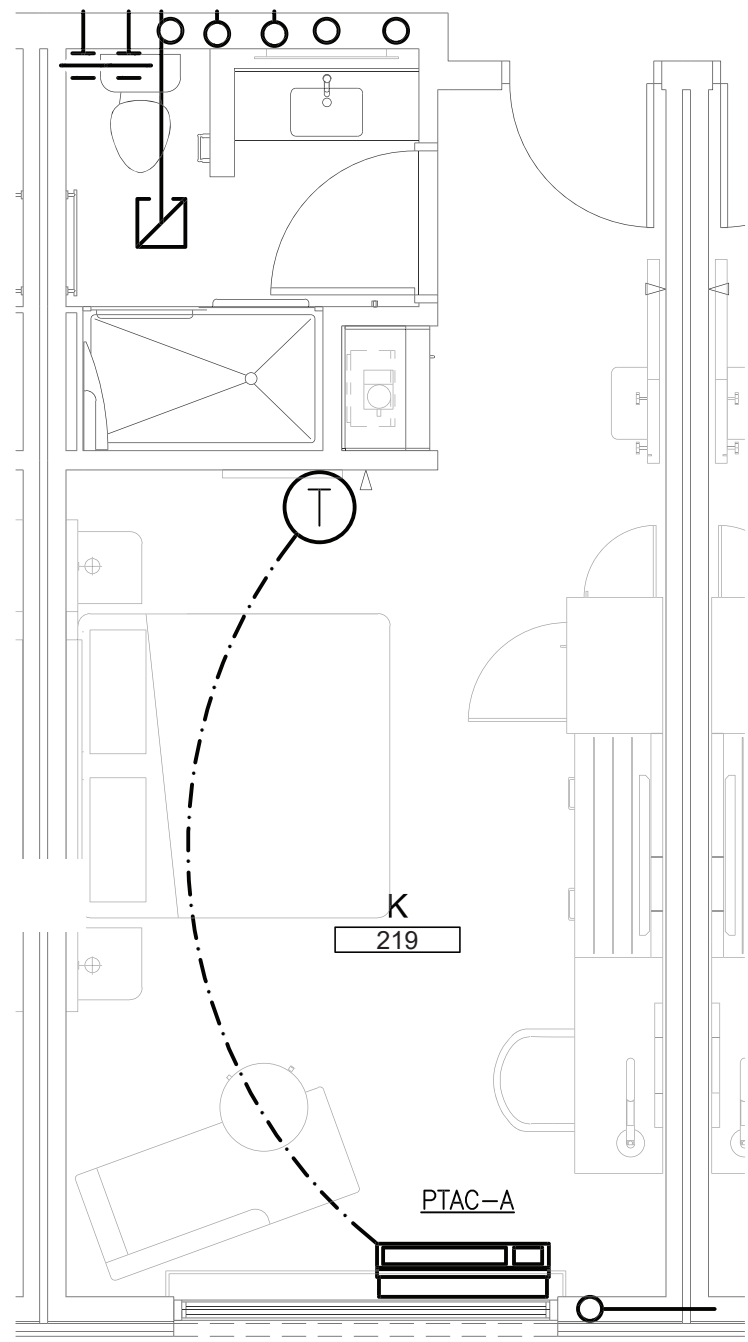
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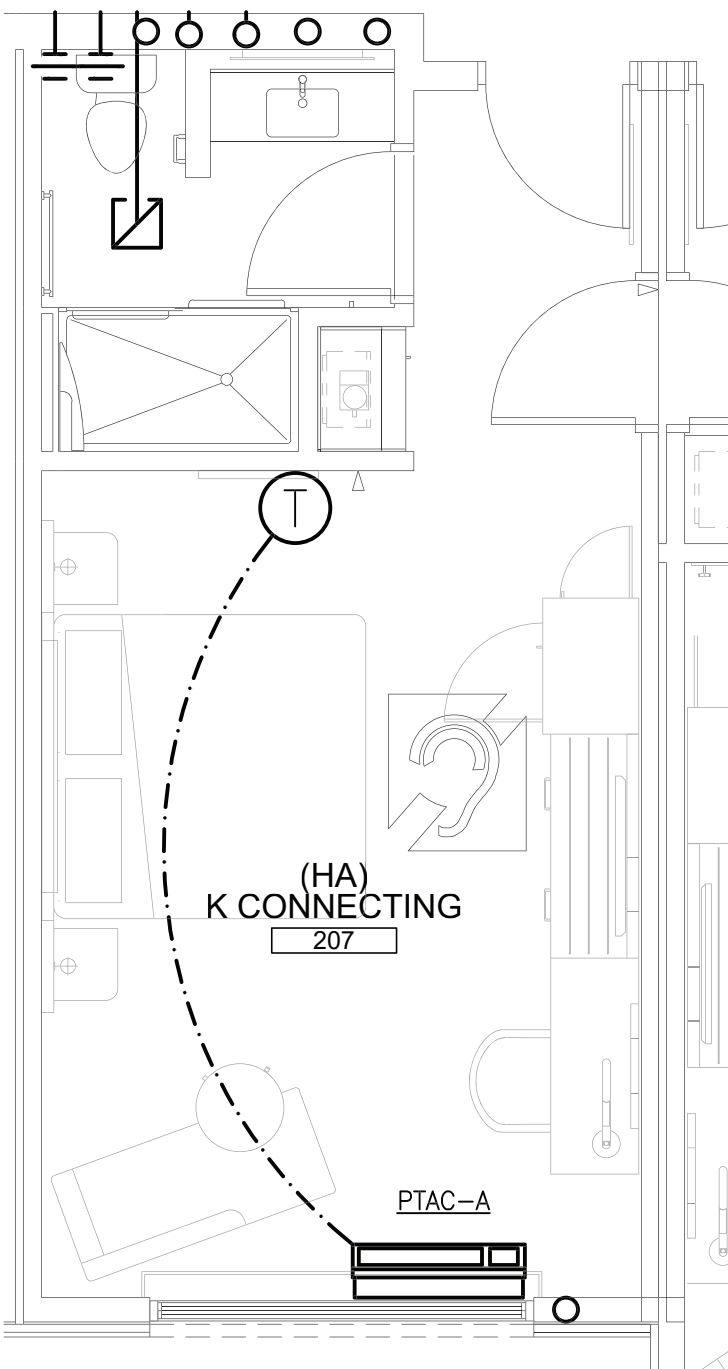
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SCALE: 1/4" = 1'-0"



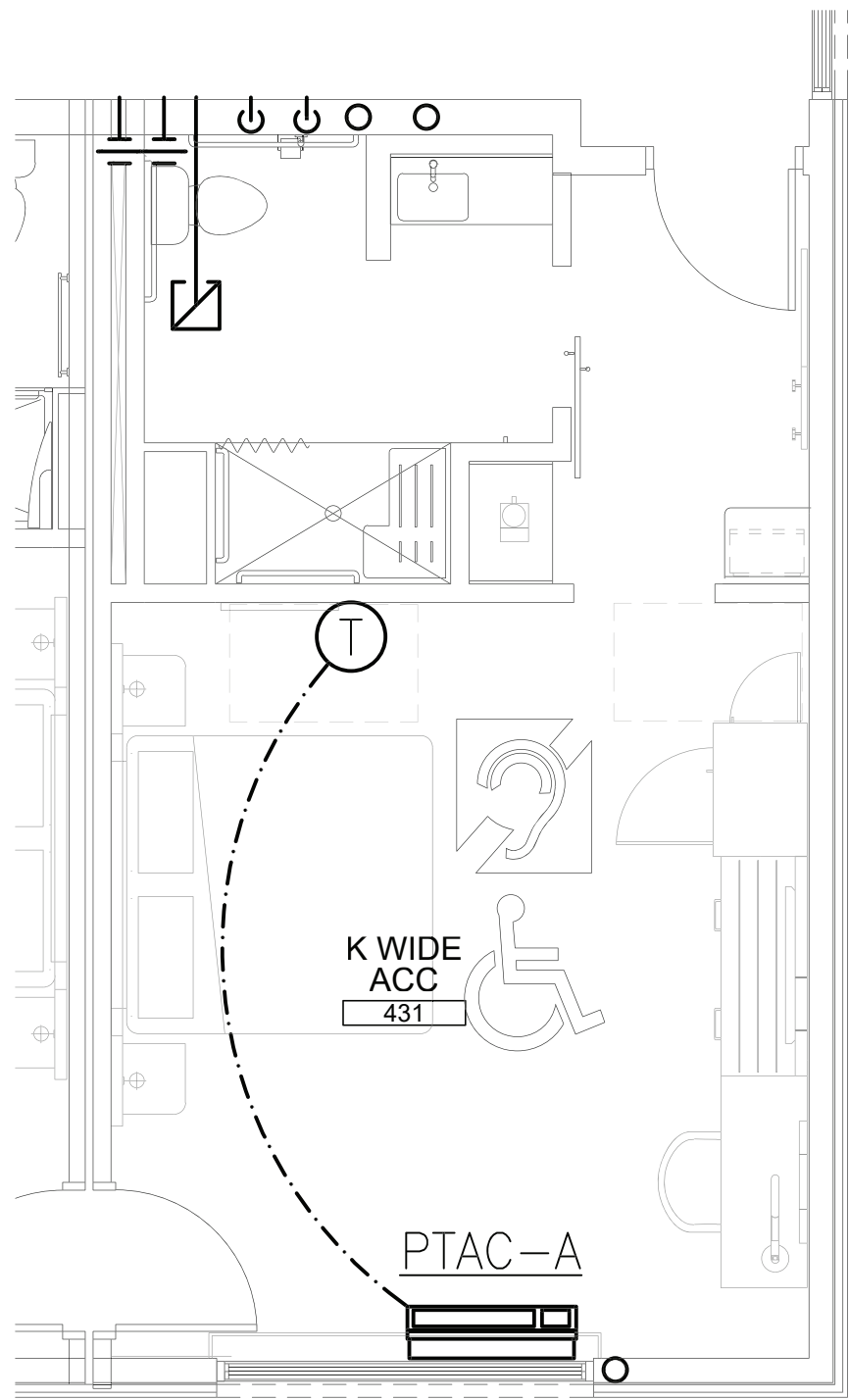
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SCALE: 1/4" = 1'-0"



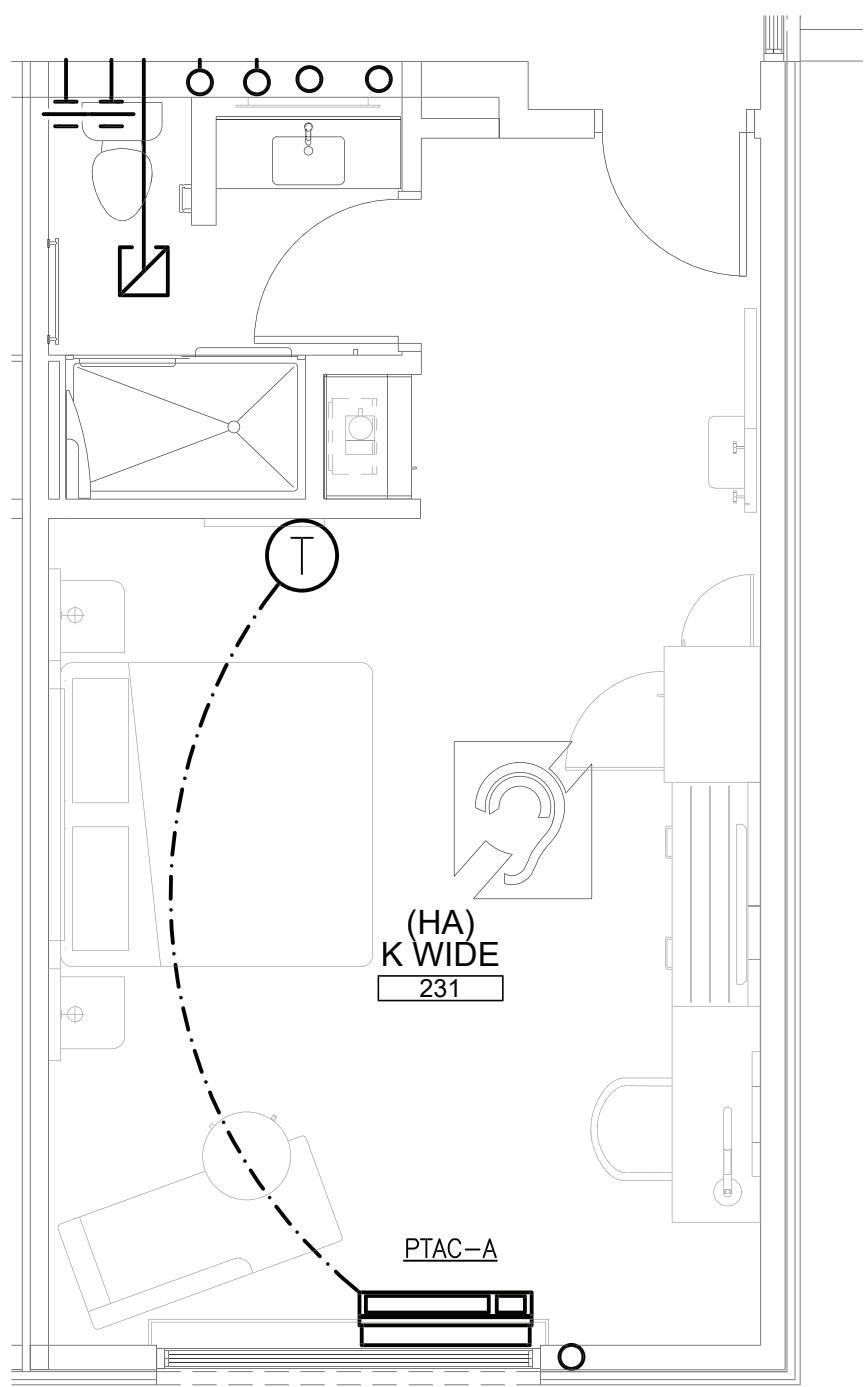
1 ENLARGED KING MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



6 ENLARGED KING MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



5 ENLARGED KING WIDE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



4 ENLARGED KING WIDE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL PLUMBING FIXTURES, BOTH STANDARD AND BARRIER FREE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPES, BRANCH CONNECTION SIZES AND ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE AND LOCAL COUNTY DEPARTMENT OF HEALTH CROSS CONTAMINATION CODE REQUIREMENTS.
4. VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING ANY WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES OR DISCREPANCIES.
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6. PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND SHALL MAINTAIN REQUIRED CLEARANCES OVER, AROUND AND IN FRONT OF ALL ELECTRICAL EQUIPMENT, PANELS, TRANSFORMERS, ETC. PIPING SHALL NOT INTERFERE WITH, OR BE INSTALLED IN A LOCATION THAT RESTRICTS ACCESS OR CLEARANCE TO ELECTRICAL OR MECHANICAL DEVICES. PROVIDE REQUIRED ACCESS AND CLEARANCE AROUND ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
7. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
8. PROVIDE BRANCH LINE ISOLATION VALVES ON DOMESTIC PIPING TO EACH GROUP OF FIXTURES AND TOILET ROOMS.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR VALVES/CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS.
11. RUN ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
12. PROVIDE "INLINE" TRAP SEAL PROTECTION OR TRAP PRIMER ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
13. AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT-OFF VALVE, TEE AND 6" LONG DIRT LEG WITH CAP. WEATHERPROOF PAINT ALL EXTERIOR GAS PIPING.
14. THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.

HVAC GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE HVAC SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS, SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR STRUCTURAL CONDITIONS OR OTHER CONDITIONS.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. ALL DUCTWORK IS TO BE ROUTED AS HIGH AS POSSIBLE. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
5. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
6. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES. SEAL ALL PIPING AND DUCT PENETRATIONS.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
8. COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
9. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
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13. FOR GRILLES, REGISTERS, OR DIFFUSER MOUNTED ON THE UNDERSIDE OF A RATED CEILING MEMBRANE, PROVIDE REGISTER BOOTS WITH RADIATION DAMPER FOR USE WITH RATED FLOOR CEILING ASSEMBLY LISTING. REFER TO ARCHITECTURAL PLANS.



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SES Project # 20 0262 02



Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

BIDS/PERMITS 04.30.21



04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN
EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS &
SUITES NANUET

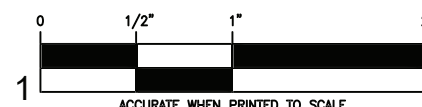
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Sheet Title :
ENLARGED
MECHANICAL PLANS

Project No. :
2018.009

Sheet No. :
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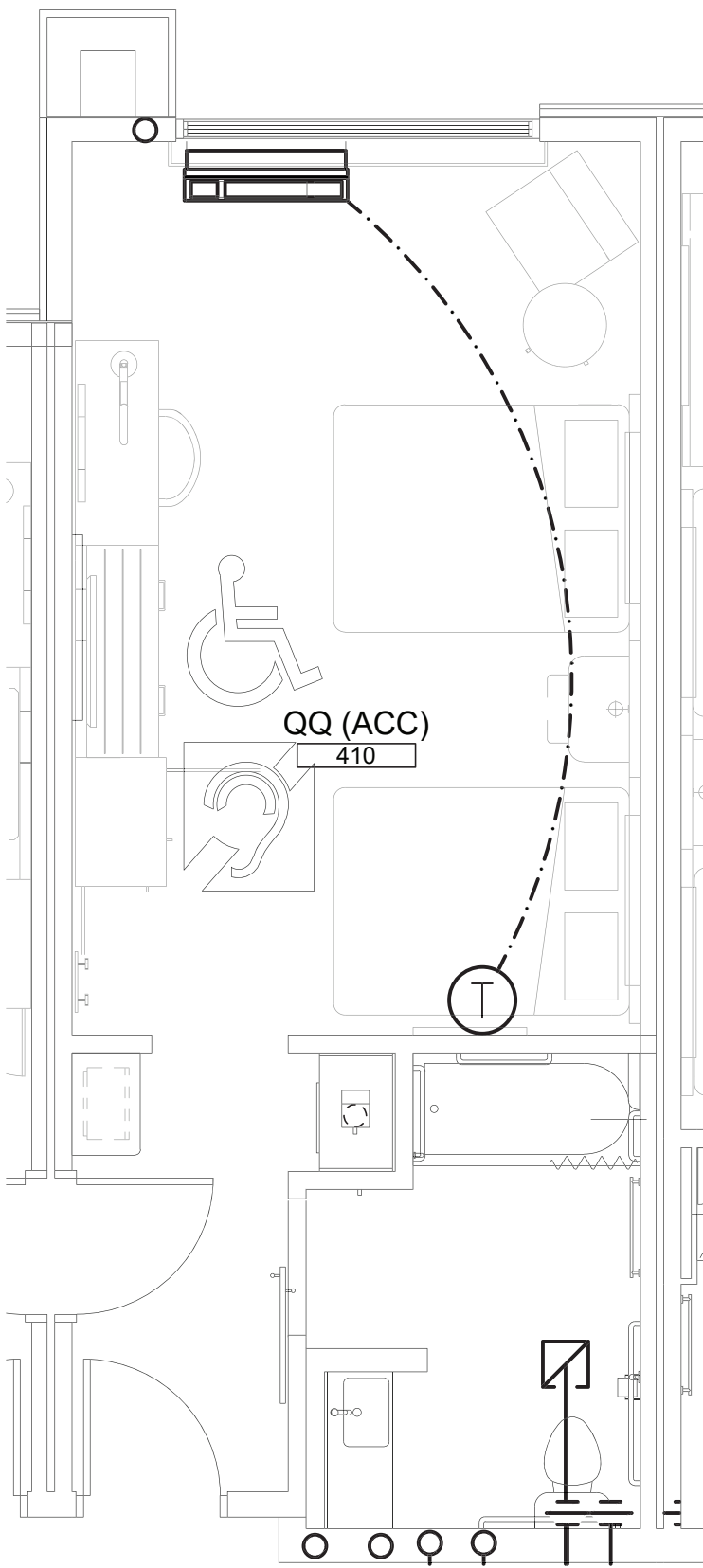


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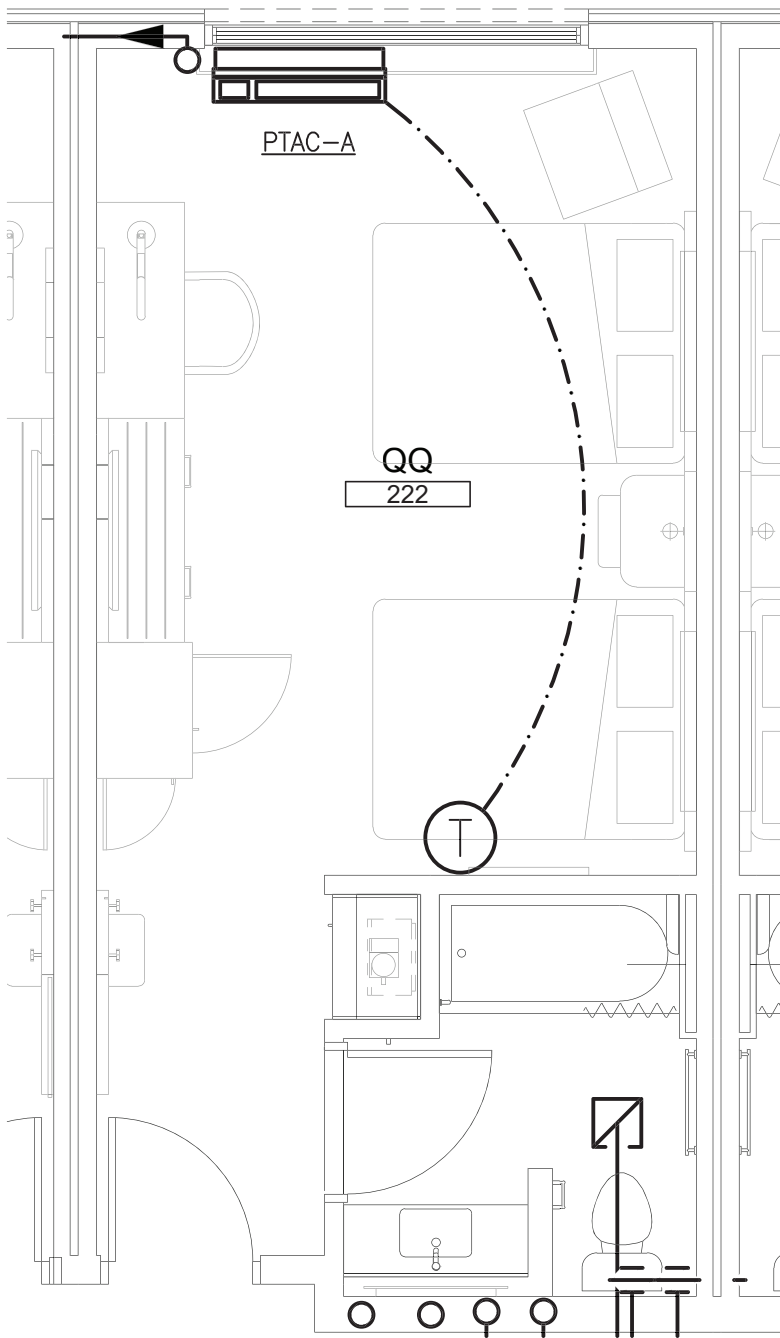
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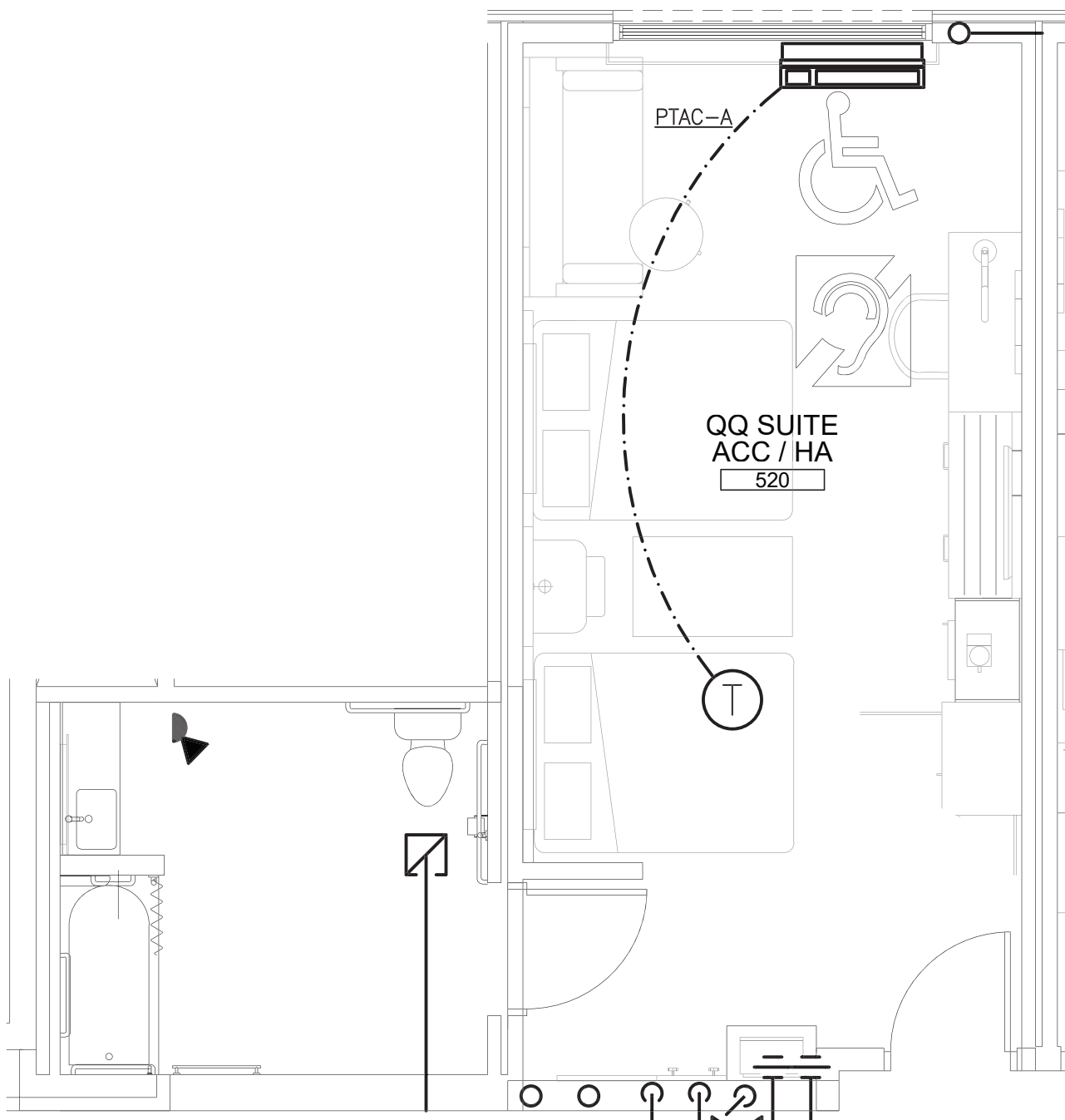
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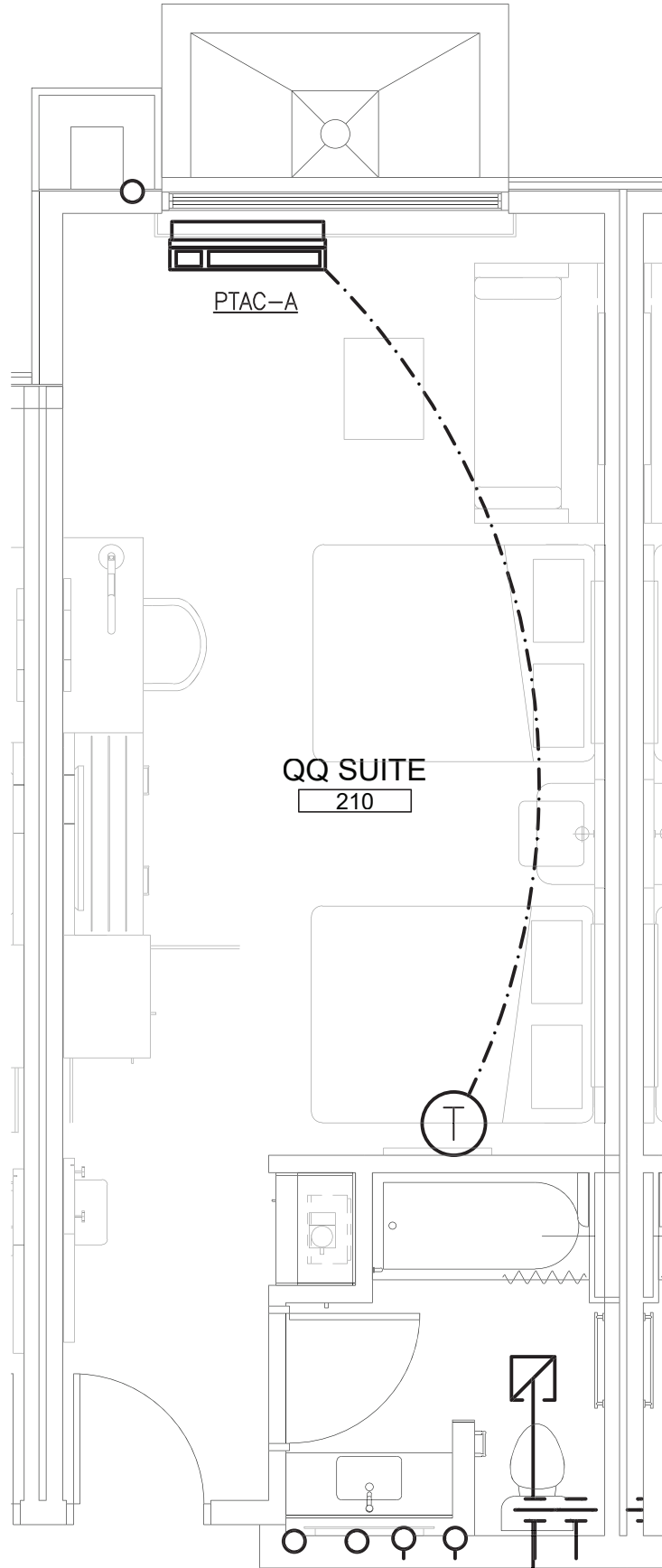
2 ENLARGED QQ SUITE ACCESSIBLE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



1 ENLARGED QQ MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



4 ENLARGED QQ 2-BAY ACCESSIBLE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



3 ENLARGED QQ SUITE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

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- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL PLUMBING FIXTURES, BOTH STANDARD AND BARRIER FREE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPES, BRANCH CONNECTION SIZES AND ADDITIONAL REQUIREMENTS.
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