

MECHANICAL SYMBOLS ABBREVIATIONS

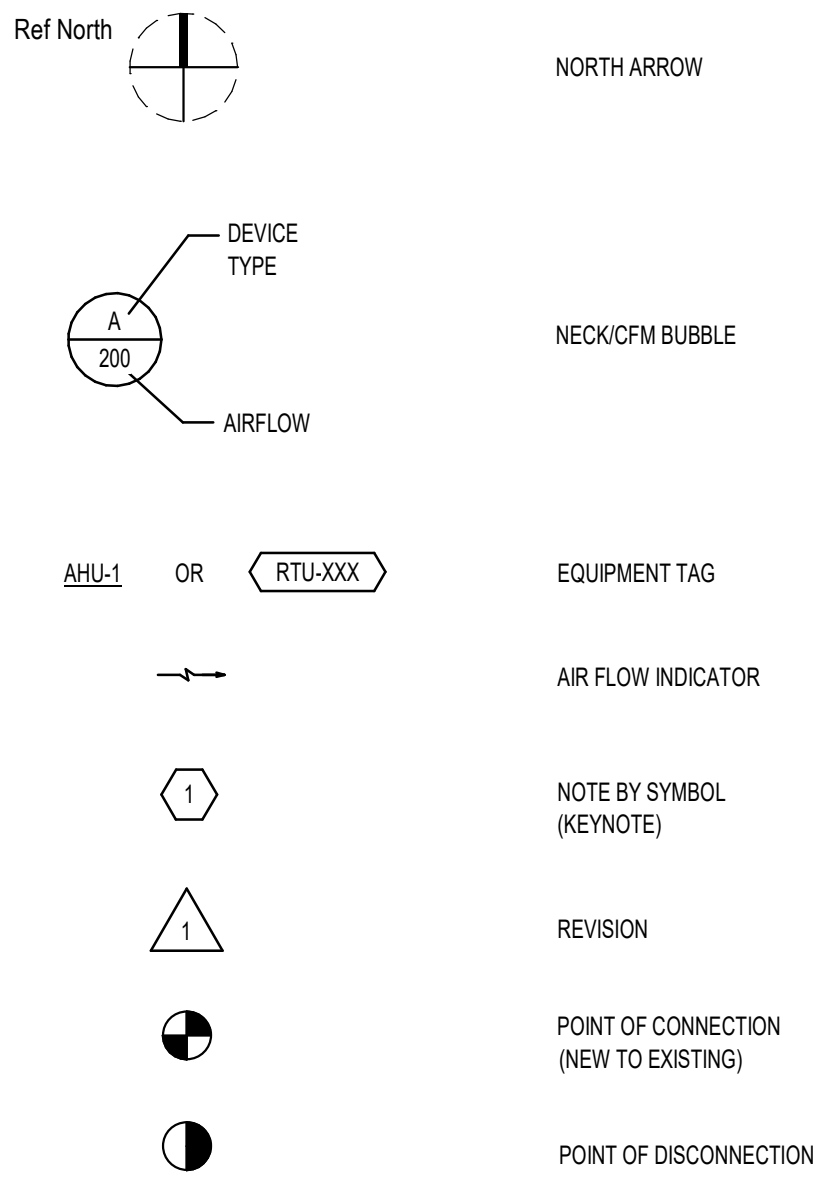
(SOME SYMBOLS MAY NOT BE USED ON THE DRAWINGS)

%	PERCENT
ABS	ABSOLUTE
ACC	AIR-COOLED CHILLER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTITUDE
AMB	AMBIENT
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARI	AIR-CONDITIONING AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AVG	AVERAGE
B	BOILER
BD	BACKDRAFT DAMPER
BG	BELOW GRADE
BEMCS	BUILDING ENERGY MANAGEMENT AND CONTROL SYSTEM
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CD	COLD DECK
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CHET	CHILLED WATER EXPANSION TANK
CMPR	COMPRESSOR
COND	CONDENSER
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CU IN	CUBIC INCH
dB	DECIBEL
DB	DRY BULB
DCP	DISTRIBUTED CONTROL PANEL
DEG	DEGREE
DIA	DIAMETER
DWG	DRAWING
DX	DIRECT-EXPANSION
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EXP	EXPANSION
F	FAHRENHEIT
FA	FACE AREA
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FH	FUME HOOD
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PIPE
FS	FLOW SWITCH
FSD	COMBINATION FIRE-SMOKE DAMPER
FT	FEET OR FOOT
FTU	FAN TERMINAL UNIT
GA	GAUGE OR GAGE
GAL	GALLONS
GALV	GALLVANIZED
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	ENTHALPY
HD	HEAD
HD	HOT DECK
HG	HEAT GAIN OR MERCURY
HGT	HEIGHT
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HR	HOUR
HTHW	HIGH TEMPERATURE HEATING WATER
HVAC	HEATING/VENTILATING/AIR-CONDITIONING
HVU	HEATING AND VENTILATING UNIT
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HZ	FREQUENCY
ID	INSIDE DIAMETER
IPS	INTERNATIONAL PIPE STANDARD
ips	IRON PIPE SIZE
K	THERMAL CONDUCTIVITY
KH	KITCHEN HOOD
KW	KILOWATT

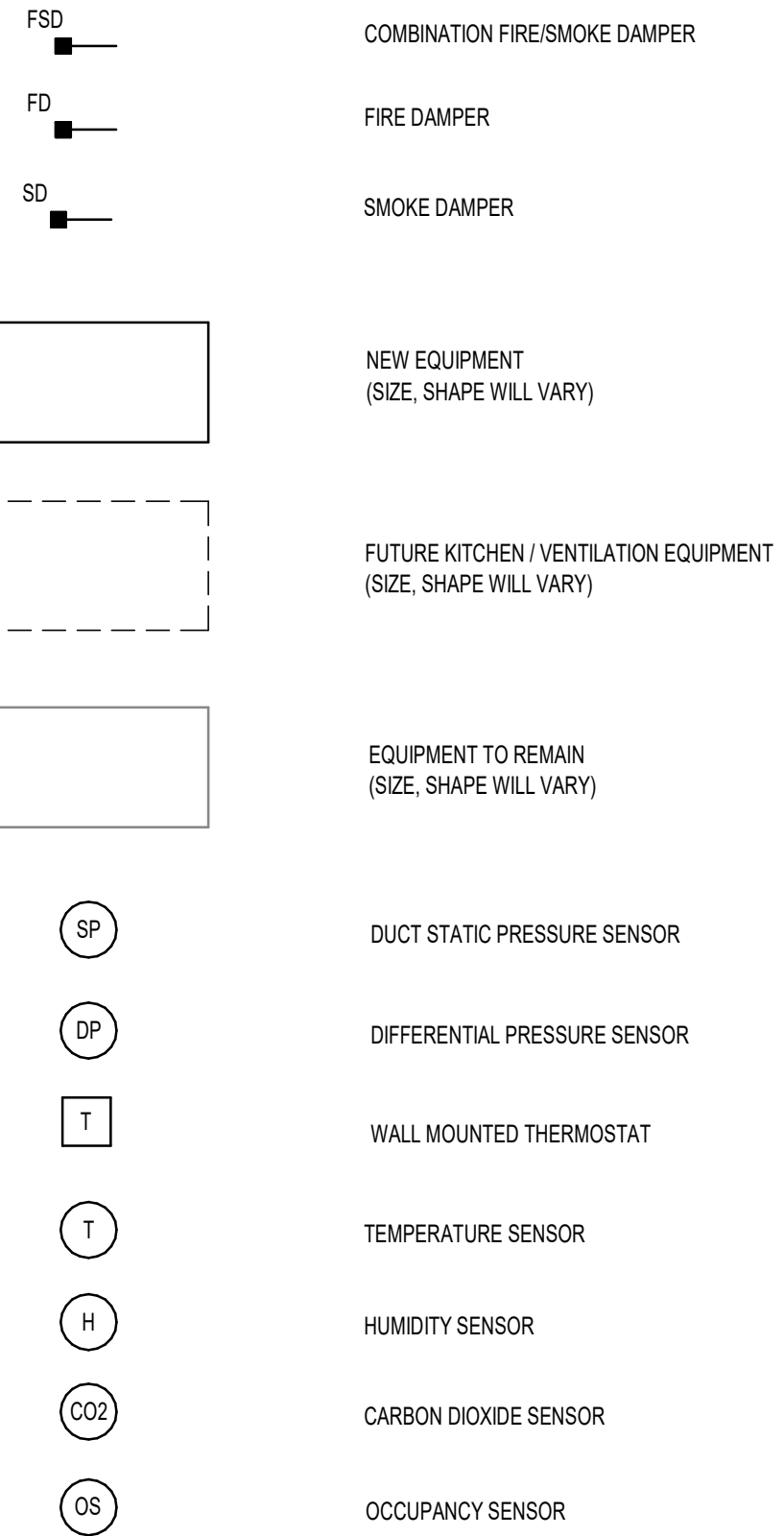
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LPS	LOW PRESSURE STEAM
LTHW	LOW TEMPERATURE HOT WATER
LWT	LEAVING WATER TEMPERATURE
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MIN	MINIMUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
PD	PUMPED DISCHARGE
PBD	PARALLEL BLADE DAMPER
PH	PHASE (ELECTRICAL)
PPM	PARTS PER MILLION
PRESS	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAGE
R	RANKINE
R-22	REFRIGERANT (NUMBER INDICATES TYPE)
RA	RETURN AIR
RAF	RELIEF AIR FAN
RECIRC	RECIRCULATE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SC	SHADING COEFFICIENT
SCFM	CUBIC FEET PER MINUTE-STANDARD CONDITIONS
SD	SMOKE DAMPER
SEC	SECOND
SF	SQUARE FEET
SG	SPECIFIC GRAVITY
SHG	SENSIBLE HEAT GAIN
SHR	SENSIBLE HEAT RATIO
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SSD	SUB-SOIL DRAINAGE
STD	STANDARD
SUCT	SUCTION
T	TEMPERATURE SENSOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOD	TOP OF DUCT
TONS	TONS OF REFRIGERATION
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
T-STAT	THERMOSTAT
TU	TERMINAL UNIT
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UH	UNIT HEATER
UF	UNDER FLOOR
V	VOLT
VA	VOLT AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VENT	VENTILATION
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VLP	VELOCITY PRESSURE
W	HUMIDITY RATIO OR WATT
W.C.	WATER COLUMN
W.G.	WATER GAUGE
WB	WET BULB
WT	WEIGHT
YR	YEAR

SHEET SYMBOLS

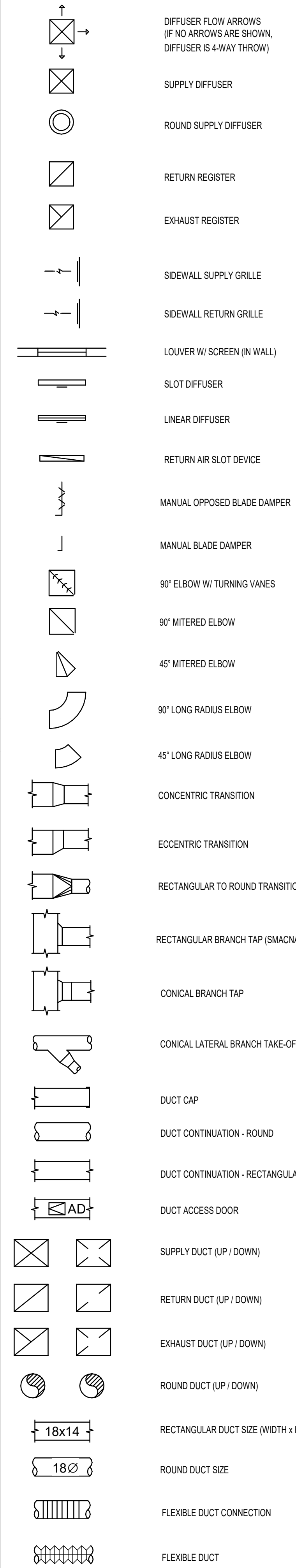
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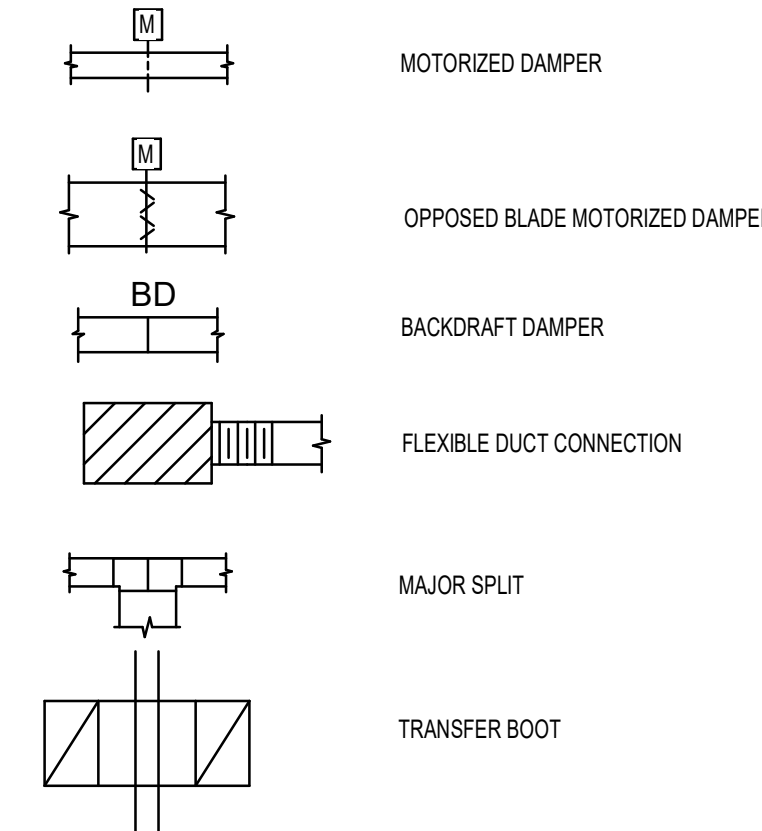
MECHANICAL EQUIPMENT



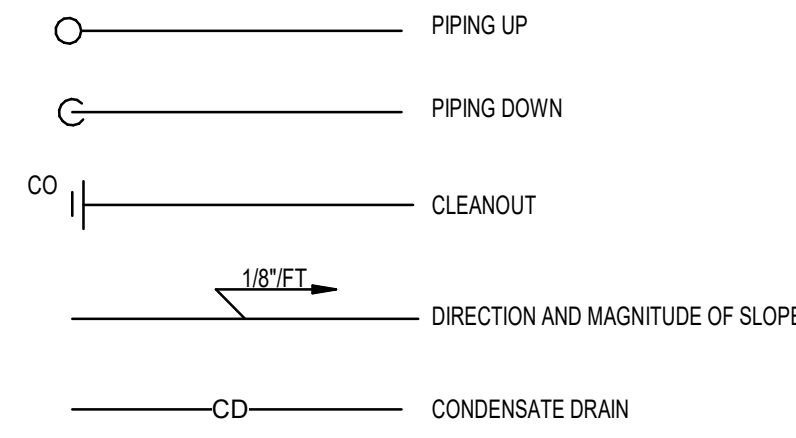
DUCTWORK



DUCTWORK



PIPING SYMBOLS



HVAC DESIGN CRITERIA

ASHRAE FUNDAMENTALS - 2021:
WEATHER STATION - HICKORY, NC
ELEVATION: 1175'
WINTER HEATING DESIGN (99.6%):
19.3 °F DRY BULB

SUMMER COOLING DESIGN (0.4%):
92.0 °F DRY BULB
76.2 °F WET BULB

GENERAL NOTES

- PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
- PROVIDE ALL SYSTEMS AS COMPLETE WITH ALL REQUIRED ACCESSORIES FOR CODE COMPLIANCE.
- REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR CONSTRUCTION.
- DUCTWORK SIZES SHOWN ARE FREE AIR STREAM DIMENSIONS.
- INSTALL DUCTWORK AND PIPING TO PROVIDE THE MAXIMUM POSSIBLE CLEAR HEIGHT UNDERNEATH. (BETWEEN STRUCTURE OR CEILING AND TOP OF DUCT).
- WHERE APPROVAL CODES HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITER'S LABORATORY, AMERICAN CODES, ANSI, ASME, ASA, ASHRAE, ASTM, ARI, NEL, NFPA, SMACNA, OR THE STATE FIRE INSURANCE REGULATORY BODY, FOLLOW THESE STANDARDS WHETHER OR NOT INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- PROVIDE THE ENTIRE SYSTEM AND ITS COMPONENT ITEMS OF EQUIPMENT IN OPERATING CONDITION FREE OF OBJECTIONABLE VIBRATION OR NOISE.
- COORDINATE WORK SO THAT INTERFERENCES BETWEEN PIPING, DUCTWORK, EQUIPMENT, PLUMBING WORK, ELECTRICAL WORK, AND BUILDING STRUCTURE WILL BE AVOIDED.
- FURNISH ACCESS DOORS FOR INSTALLATION IN WALLS AND CEILINGS WHERE ACCESS IS REQUIRED TO CONCEALED MECHANICAL EQUIPMENT, VALVES, DAMPERS, CONTROLS AND OTHER DEVICES.
- COORDINATE THE EXACT LOCATION OF DRAIN AND MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL, ARCHITECTURAL, AND STRUCTURAL DRAWINGS PRIOR TO INSTALLATION.
- RECTANGULAR ELBOWS SHALL BE LONG-RADIUS ELBOWS UNLESS OTHERWISE SHOWN OR NOTED. SUPPLY AIR STANDARD NON-RADIUS 90° ELBOWS SHALL HAVE TURNING VANES.



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PREPARED FOR:



△ Date Description



Seal / Signature

WHATABURGER HICKORY, NC

Project Name

WHATABURGER

Date: 06/14/2024

Project Number

2302500

Description

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

Scale

NOT TO SCALE

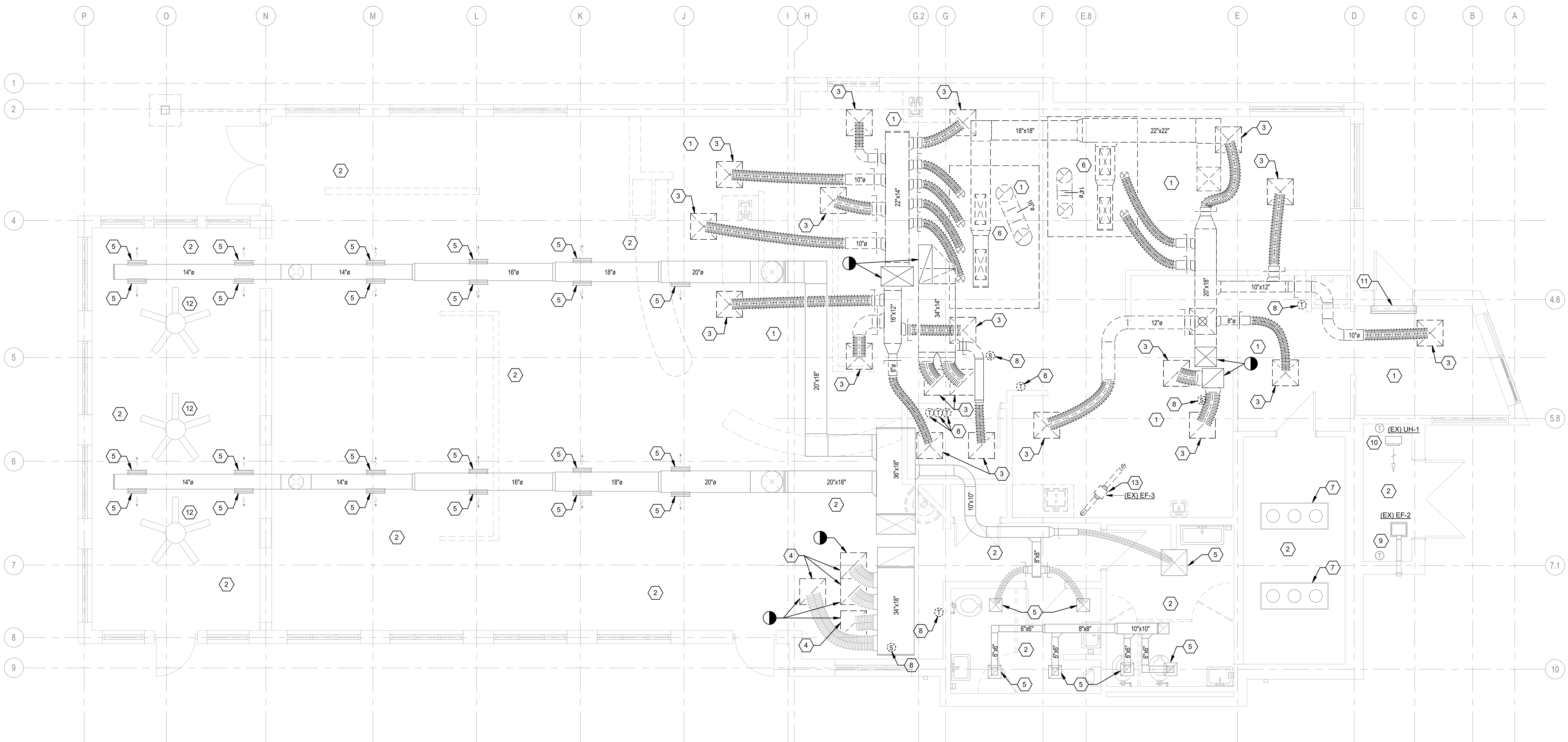
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MECH. DEMOLITION KEY NOTES

- 1 UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL REMOVE ALL HVAC ITEMS SERVING THIS AREA INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: EQUIPMENT, PIPING, DUCTWORK, ACCESSORIES, HANGERS, REGISTERS, GRILLES & DIFFUSERS, CONTROL COMPONENTS, ETC... ALL WIRING, LINE & LOW VOLTAGE, SHALL BE TERMINATED BACK TO THEIR SOURCE. COORDINATE WITH GC AND THE WORK OF DIV. 22 & 28. ROOF OPENINGS DUE TO REMOVED COMPONENTS SHALL BE CAPPED AND SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 UNLESS OTHERWISE NOTED, ALL ITEMS SERVING THIS AREA ARE EXISTING TO REMAIN.
- 3 DEMOLISH EXISTING SUPPLY/RETURN/EXHAUST GRILLE/DIFFUSER AND REMOVE ALL CONNECTED DUCTWORK BACK TO DUCT RISER.
- 4 DEMOLISH EXISTING RETURN GRILLE. ATTACHED DUCTWORK TO REMAIN.
- 5 EXISTING SUPPLY/RETURN/EXHAUST GRILLE/DIFFUSER AND ATTACHED DUCTWORK TO REMAIN.
- 6 DEMOLISH EXISTING KITCHEN HOOD AND ALL WIRING, PIPING, AND CONTROLS. REMOVE ALL EXHAUST DUCTWORK UP TO ROOF PENETRATION. COORDINATE REMOVAL OF EQUIPMENT WITH GENERAL CONTRACTOR.
- 7 EXISTING COOLER/FREEZER EVAPORATOR AND ALL PIPING, WIRING, AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 8 DEMOLISH EXISTING THERMOSTAT/SENSOR/SWITCH. ALL WIRING SHALL BE TERMINATED BACK TO ITS SOURCE. COORDINATE WITH GC AND THE WORK OF DIV. 28.
- 9 EXISTING EXHAUST FAN AND ALL DUCTWORK, WIRING, AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 10 EXISTING UNIT HEATER AND ALL WIRING AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 11 EXISTING AIR CURTAIN AND ALL WIRING AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 12 EXISTING CEILING FAN AND ALL WIRING AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 13 DEMOLISH EXISTING EXHAUST FAN AND ALL WIRING AND CONTROLS. REMOVE ALL EXHAUST DUCTWORK UP TO ROOF PENETRATION. COORDINATE REMOVAL OF EQUIPMENT WITH GENERAL CONTRACTOR.

MECH. DEMOLITION GENERAL NOTES

1. THE CONTRACTOR SHALL REMOVE ALL HVAC ITEMS AS INDICATED INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: EQUIPMENT, LOW & LINE VOLTAGE WIRING, PIPING, DUCTWORK, SPECIALTIES & ACCESSORIES, HANGERS, REGISTERS, GRILLES & DIFFUSERS, CONTROL COMPONENTS, ETC... ALL WIRING SHALL BE TERMINATED BACK TO THEIR SOURCE AND ANY GAS BRANCH PIPING SHALL BE CAPPED BACK TO THE NEAREST MAIN. REFER TO WORK BY DIV. 22 & 28 FOR ANY ADDITIONAL INFORMATION.
2. ANY ROOF OPENINGS DUE TO THE REMOVAL OF ANY ROOFTOP EQUIPMENT OR RELATED APPURTENANCES THEREOF, SHALL BE STRUCTURALLY PATCHED AND THE ROOFING SEALED WEATHERTIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AND MAKE THE APPROPRIATE REPAIRS TO MAINTAIN THE EXISTING ROOFING SYSTEM R-VALUE. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO.
3. THE CONTRACTOR SHALL VISIT THE SITE AND ADJOINING AREAS, EXAMINE, AND BE FAMILIAR WITH ALL EXISTING CONDITIONS AND DETERMINE THE IMPACT ON THE EXECUTION OF WORK OF THIS CONTRACT. THE CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
4. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF THE DEMOLITION, THE CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
5. THE DEMOLITION WORK SHALL INCLUDE PROVIDING ALL MATERIALS AND LABOR FOR, EXTENSIONS, CONNECTIONS, CUTTING, PATCHING, REPAIRING, ELECTRICAL WORK, AND TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. NOTES AND GRAPHIC REPRESENTATION SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. EXTENT OF THE DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECT.
6. PRIOR TO ANY WORK BEING PERFORMED, THIS CONTRACTOR SHALL COORDINATE WITH ALL APPROPRIATE TRADES AND BUILDING MANAGEMENT TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING.
7. COORDINATE WITH GENERAL CONTRACTOR FOR REMOVAL AND/OR ALTERATION OF CEILING. REFER TO ARCHITECTURAL PLANS.
8. ANY EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH NEW WORK SHALL BE RELOCATED AND RECONNECTED USING LIKE MATERIALS AND METHODS OF THE EXISTING SERVICE AND SHALL CONFORM TO STANDARDS OF THIS CONTRACT. THIS WORK MAY NOT BE REPRESENTED IN THE DRAWINGS, BUT SHOULD BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN HIS PROPOSAL. COORDINATE WITH BUILDING MANAGEMENT PRIOR TO ANY SHUTDOWN OR DISRUPTION OF SERVICES THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
9. ALL NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH BUILDING MANAGEMENT SO AS TO MINIMIZE DISRUPTION OF EXISTING SERVICES. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.
10. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING DUCTWORK, PIPING, CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN, WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
11. PROTECT THE INTEGRITY OF ALL ITEMS (I.E. EQUIPMENT, DUCTWORK, PIPING, INSULATION, ETC...) THAT ARE INDICATED TO REMAIN. MAINTAIN THE FULL FUNCTIONALITY OF ALL ITEMS THAT ARE TO REMAIN. REPLACE AND/OR REPAIR ANY DAMAGE TO THE ABOVE MENTIONED ITEMS RESULTING FROM THEIR WORK. WHERE ITEMS THAT ARE INDICATED TO REMAIN ARE NOT IN PROPER WORKING ORDER PRIOR TO THE START OF THE MC'S WORK, REPORT ANY ISSUES IMMEDIATELY TO THE ENGINEER OF RECORD AND THE OWNER'S REPRESENTATIVE. UNLESS OTHERWISE NOTED, REMOVE CONDUIT AND WIRING TO POINTS OF ORIGIN WITHIN THE DESIGNATED AREA OF CONSTRUCTION FOR ALL EXISTING EQUIPMENT TO BE REMOVED.
12. ANY DEMOLITION MATERIALS, EQUIPMENT, ETC... REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION. THE ITEMS TO BE TURNED OVER AND LOCATION FOR THEIR STORAGE SHALL BE COORDINATED WITH THE OWNER'S REP. ALL MATERIALS AND EQUIPMENT SLATED TO BE REMOVED AND NOT DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
13. NO DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE SITE. THE CONSTRUCTION SITE SHALL BE SWEEPED CLEAN EACH DAY AND NO DUST OR DEBRIS SHALL BE PERMITTED TO ENTER THE AREA DRAINS SERVING THE BUILDING.
14. WHERE PORTIONS OF ANY EXISTING SERVICE IS TO BE DEMOLISHED, THE CONTRACTOR SHALL PROVIDE A TEMPORARY CAP TO THE EXISTING SERVICE AND MAKE SAFE ANY UNPROTECTED, EXPOSED ELECTRICAL WIRING AT POINT OF DEMOLITION. CAPS SHALL BE AIRTIGHT OR WATERTIGHT DEPENDING ON TYPE OF SERVICE.



M1 MECHANICAL DEMOLITION FLOOR PLAN
1/4" = 1'-0"

PREPARED FOR:



Date	Description
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Seal / Signature

WHATABURGER HICKORY, NC

Project Name
WHATABURGER

Date: 06/14/2024

Project Number

2302500

Description

MECHANICAL DEMOLITION FLOOR PLAN

Scale

1/4" = 1'-0" Ref North

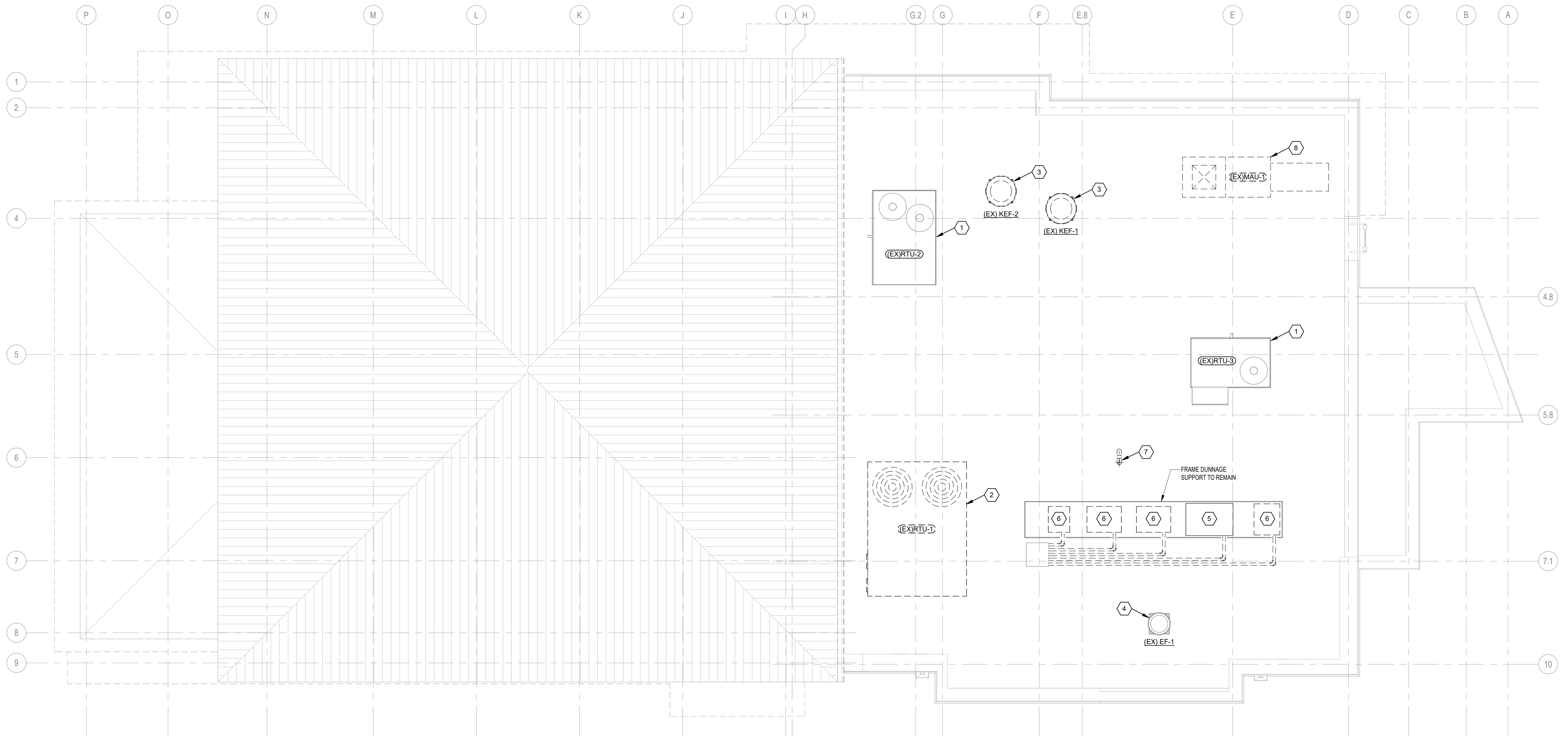
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MECH. DEMOLITION KEY NOTES

- 1 EXISTING ROOFTOP UNIT, CURB, AND DUCT RISERS TO REMAIN. ALL ASSOCIATED DUCTWORK, DIFFUSERS, AND CONTROLS TO BE DEMOLISHED. UON. COORDINATE WITH GC AND THE WORK OF DIV. 22 & 26.
- 2 EXISTING ROOFTOP UNIT AND ALL ASSOCIATED CONTROLS TO BE DEMOLISHED. UON. CURB AND ALL ASSOCIATED DUCTWORK AND DIFFUSERS TO REMAIN. UON. ALL WIRING, LINE AND LOW VOLTAGE, SHALL BE TERMINATED BACK TO THEIR SOURCE. COORDINATE WITH GC AND THE WORK OF DIV. 22 & 26. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF REPAIR INFORMATION.
- 3 EXISTING KIT CHEN EXHAUST FAN, CURB, AND ALL ASSOCIATED DUCTWORK, DIFFUSERS, AND CONTROLS TO BE DEMOLISHED. ALL WIRING, LINE AND LOW VOLTAGE, SHALL BE TERMINATED BACK TO THEIR SOURCE. COORDINATE WITH GC AND THE WORK OF DIV. 26. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF REPAIR INFORMATION.
- 4 EXISTING EXHAUST FAN, CURB, AND ALL ASSOCIATED DUCTWORK, DIFFUSERS, WIRING, AND CONTROLS TO REMAIN. COORDINATE WITH GC AND THE WORK OF DIV. 26.
- 5 EXISTING REFRIGERATION CONDENSING UNIT TO BE DISCONNECTED AND STORED FOR REINSTALLATION IN THE NEW WORK PHASE. ALL ASSOCIATED ROOF MOUNTED PIPING SHALL BE DEMOLISHED. ALL ASSOCIATED SUPPORTS AND CONTROLS TO REMAIN. COORDINATE WITH GC AND THE WORK OF DIV. 26.
- 6 EXISTING REFRIGERATION CONDENSING UNIT AND ALL ASSOCIATED PIPING AND CONTROLS TO BE DEMOLISHED. ALL WIRING, LINE AND LOW VOLTAGE, SHALL BE TERMINATED BACK TO THEIR SOURCE. COORDINATE WITH GC AND THE WORK OF DIV. 26.
- 7 EXISTING GOOSENECK AND ALL ASSOCIATED DUCTWORK TO BE DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF REPAIR INFORMATION.
- 8 EXISTING MAKEUP AIR UNIT, CURB, AND ALL ASSOCIATED DUCTWORK AND CONTROLS TO BE DEMOLISHED. UON. ALL WIRING, LINE AND LOW VOLTAGE, SHALL BE TERMINATED BACK TO THEIR SOURCE. COORDINATE WITH GC AND THE WORK OF DIV. 22 & 26. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF REPAIR INFORMATION.

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M1 MECHANICAL DEMOLITION ROOF PLAN
1/4" = 1'-0"

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PREPARED FOR:



Date	Description
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Seal / Signature

WHATABURGER HICKORY, NC

Project Name

WHATABURGER

Date: 06/14/2024

Project Number

2302500

Description

MECHANICAL DEMOLITION ROOF PLAN

Scale

1/4" = 1'-0" Ref North

MD1.2

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MECHANICAL KEY NOTES

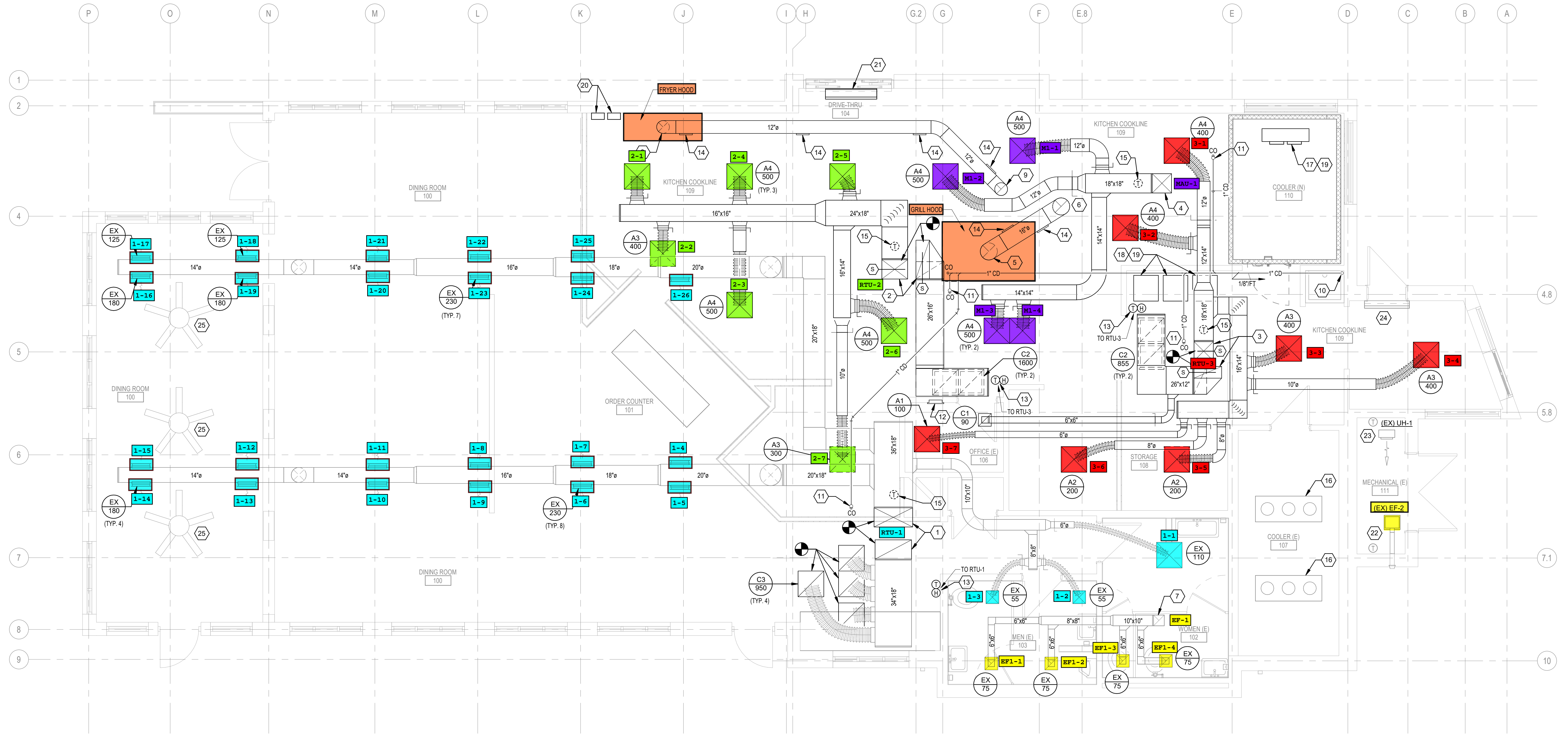
- 1 EXISTING SUPPLY AND RETURN DUCTS UP TO RTU. PROVIDE CONNECTION TO NEW UNIT. RE: C3M5.1. REBALANCE TO SPECIFIED AIRFLOWS.
- 2 24"x18" SUPPLY AND 26"x18" RETURN DUCTS UP TO RTU. PROVIDE DUCT TRANSITIONS TO CONNECT TO EXISTING DUCT RISER. PROVIDE NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS.
- 3 18"x18" SUPPLY AND 26"x12" RETURN DUCTS UP TO RTU. PROVIDE DUCT TRANSITIONS TO CONNECT TO EXISTING DUCT RISER. PROVIDE NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS.
- 4 18"x18" SUPPLY DUCT UP TO MAU. PROVIDE DUCT TRANSITION TO MATCH UNIT CONNECTION SIZE.
- 5 CONNECT KITCHEN EXHAUST HOOD ABOVE GRILL UP TO KEF-1 WITH 16" DIA. PRE-FABRICATED UL 1978 LISTED AND LABELED GREASE DUCT (DURAVENT DIS1 OR EQUAL). PROVIDE TRANSITION ABOVE CEILING TO MATCH HOOD CONNECTION SIZE.
- 6 16" GREASE EXHAUST DUCT UP TO KEF-1 ON ROOF. RE: A2M5.1
- 7 EXISTING EXHAUST DUCT UP TO EF-1 ON ROOF. REBALANCE EXHAUST TO SPECIFIED AIRFLOWS.
- 8 CONNECT KITCHEN EXHAUST HOOD ABOVE FRYER UP TO KEF-2 WITH 12" DIA. PRE-FABRICATED UL 1978 LISTED AND LABELED GREASE DUCT (DURAVENT DIS1 OR EQUAL). PROVIDE TRANSITION ABOVE CEILING TO MATCH HOOD CONNECTION SIZE.
- 9 12" GREASE EXHAUST DUCT UP TO KEF-2 ON ROOF. RE: A2M5.1
- 10 1" CONDENSATE DOWN TO MOP SINK. TERMINATE CONDENSATE 1" ABOVE MOP SINK RM.
- 11 FULLY INSULATED 1" COPPER CONDENSATE PIPE UP THROUGH ROOF. RE: C4M5.1
- 12 THE PILOT RDM SYSTEM CONTROLLER PANEL SHALL BE MOUNTED AND INSTALLED FLUSH IN THE MANAGER'S OFFICE AT 5' AFF TO CENTER. COORDINATE FINAL LOCATION OF PANEL WITH OWNER AND GC.
- 13 TEMPERATURE AND HUMIDITY SENSORS "T" AND "H" TO BE CEILING MOUNTED AND TIED INTO THE BUILDING CONTROL SYSTEM.

- 14 LISTED GREASE DUCT ACCESS DOOR ASSEMBLY. INSTALL ON SIDE OF DUCT.
- 15 SUPPLY AIR DUCT MOUNTED TEMPERATURE SENSOR. INSTALL ON BOTTOM OR SIDE OF DUCT.
- 16 EXISTING COOLER EVAPORATOR UNIT. COORDINATE STARTUP WITH EQUIPMENT MANUFACTURER AND GC. REPORT DEFICIENCIES TO ENGINEER AND CLIENT.
- 17 KITCHEN FREEZER EVAPORATOR UNIT. FURNISHED BY OWNER. INSTALLED BY MC IN COORDINATION WITH GC.
- 18 KITCHEN ICEMAKER EVAPORATOR UNIT. FURNISHED BY OWNER. INSTALLED BY MC IN COORDINATION WITH GC.
- 19 MECHANICAL CONTRACTOR TO PROVIDE EQUIPMENT SUPPORTS, REFRIGERANT LINES, AND COMPLETE EQUIPMENT INSTALLATION. COORDINATE EXACT LOCATION OF EQUIPMENT ON-SITE AND ROUTE REFRIGERANT PIPING THROUGH ROOF PENETRATION. COORDINATE PIPING AND UNIT INSTALLATION REQUIREMENTS AND STARTUP WITH KITCHEN EQUIPMENT MANUFACTURER AND GC.
- 20 REMOTE ANSUL SYSTEM MOUNTED ON WALL. CONFIRM FINAL LOCATION OF STATION WITH OWNER, ARCHITECT, AND OTHER TRADES. REFER TO DETAILS AND SPECIFICATIONS.
- 21 AIR CURTAIN MOUNTED ON WALL. FURNISHED BY OWNER. INSTALLED BY MC IN COORDINATION WITH GC.
- 22 EXISTING EXHAUST FAN AND ALL DUCTWORK, WIRING, AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 23 EXISTING UNIT HEATER AND ALL WIRING AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 24 EXISTING AIR CURTAIN AND ALL WIRING AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.
- 25 EXISTING CEILING FAN AND ALL WIRING AND CONTROLS TO REMAIN. COORDINATE WITH GENERAL CONTRACTOR.

MECHANICAL GENERAL NOTES

- A. REFER TO M0.1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B. SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE RTU MANUFACTURER IN THE SUPPLY AND RETURN SIDES OF RTU. COORDINATE INSTALLATION AND CONNECTION OF SMOKE DETECTORS WITH FA CONTRACTOR, EC, AND GC. REFERENCE M0.1 FOR RTU SCHEDULE. ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN RTU AND ACTIVATE THE AUDIBLE AND VISUAL SIGNAL PROVIDED.
- C. PROVIDE NECESSARY ACCESS AND CLEARANCES AROUND ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- D. MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN ALL NEW ROOF MOUNTED EQUIPMENT AND EDGE OF ROOF WITH THE EXCEPTION OF EQUIPMENT LOCATED BEHIND AN ARCHITECTURAL GUARD (MINIMUM 42" HIGH) OR PROVIDED WITH AN APPROVED FALL ARREST ANCHORAGE CONNECTOR DEVICE.
- E. MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN MECHANICAL AIR INTAKES AND ALL MECHANICAL EXHAUSTS OR PLUMBING VENTS.
- F. AN APPROVED AGENCY SHALL BE HIRED BY THE OWNER AS PART OF THIS PROJECT TO PROVIDE A COMMISSIONING PLAN THAT INCLUDES THE FOLLOWING ITEMS:
 - A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.
 - A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.
 - FUNCTIONS TO BE TESTED INCLUDING, BUT NOT LIMITED TO, CALIBRATIONS AND ECONOMIZER CONTROLS.
 - CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED. TESTING SHALL AFFIRM WINTER AND SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS.
 - MEASURABLE CRITERIA FOR PERFORMANCE.

- G. KITCHEN HOODS, ANSUL FIRE SUPPRESSION SYSTEM AND HOOD CONTROLS SHALL BE OWNER-FURNISHED AND CONTRACTOR-INSTALLED. COORDINATE WITH GC.
- H. FINAL LOCATION OF ALL TEMPERATURE AND HUMIDITY SENSORS TO BE COORDINATED IN FIELD. LOCATE SENSORS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION.
- I. ALL TESTS AND BALANCES TO BE PERFORMED BY A THIRD PARTY - NOT BY MEP SUBCONTRACTOR.
- J. MECHANICAL CONTRACTOR SHALL VERIFY ALL OF THE EXISTING EQUIPMENT THAT IS TO REMAIN IS IN GOOD WORKING ORDER AND FUNCTIONAL. VERIFY THE COMPLETE OPERATION OF EACH PIECE OF EXISTING EQUIPMENT AS ORIGINALLY INSTALLED.
 1. WHERE ANY EXISTING EQUIPMENT IS NOT DEEMED FUNCTIONAL AND/OR OPERATIONAL, IT SHALL BE DOCUMENTED IN AN ITEMIZED DEFICIENCY REPORT AND BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE REPORT SHALL CONTAIN, BUT IS NOT LIMITED TO:
 - a. A DESCRIPTION OF THE EQUIPMENT AND A LIST OF ALL ITS COMPONENTS.
 - b. COMPONENT CONDITION.
 - c. RECOMMENDATION TO CORRECT THE CONDITION, INCLUDING A PROPOSED COST.
 2. THE OWNER'S REP. SHALL MAKE ANY DETERMINATIONS FOR CORRECTIVE ACTIONS AND SHALL ADVISE.
 3. WHERE EXISTING EQUIPMENT HAS NOT BEEN INCLUDED IN A DEFICIENCY REPORT, IT SHALL BE CONSIDERED FUNCTIONAL AND OPERATIONAL AS ORIGINALLY INTENDED.
 4. ALL SYSTEMS THAT ARE EXISTING TO REMAIN SHALL BE SERVICED, INCLUDING, BUT NOT LIMITED TO:
 - a. CLEANING ALL DUCTS/PIPES/VENTS/GRILLES/EQUIPMENT/COILS
 - b. REPLACING ALL BELTS AND FILTERS.
 - INSTALL ONE SET OF NEW FILTERS FOR EQUIPMENT THAT IS EXISTING TO REMAIN AT THE START OF CONSTRUCTION.
 - INSTALL NEW SET OF FILTERS AT PROJECT COMPLETION.



M1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"



Date	Description
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Seal / Signature

WHATABURGER HICKORY, NC

Project Name

WHATABURGER

Date: 06/14/2024

Project Number

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Description

MECHANICAL FLOOR PLAN

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1/4" = 1'-0" Ref North

M1.1

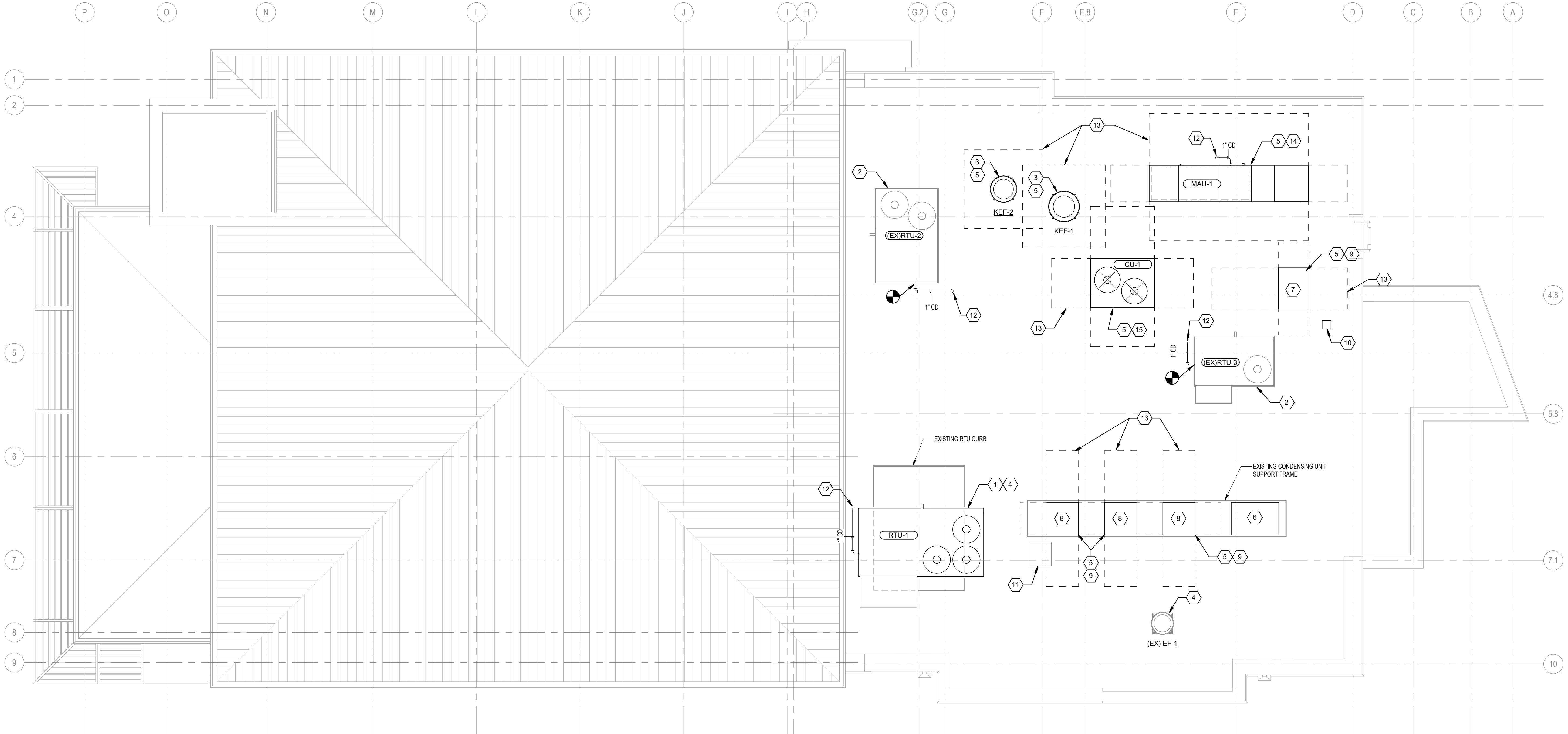
MECHANICAL KEY NOTES

- 1 NEW ROOFTOP HVAC UNIT MOUNTED ON EXISTING CURB. VERIFY DIMENSIONS AND COMPATIBILITY OF EXISTING CURB AND NEW UNIT IN FIELD PRIOR TO ORDERING.
- 2 EXISTING ROOFTOP HVAC UNIT. REBALANCE AIRFLOW. PROVIDE NEW CONTROLS TO UNIT PER SHEET M7.1.
- 3 CENTRIFUGAL UPBLAST GREASE HOOD EXHAUST FAN MOUNTED ON MANUFACTURER PROVIDED ROOF CURB. RE: AZM5.1. ALIGN WITH EXISTING ROOF OPENING.
- 4 EXISTING EXHAUST FAN AND CONTROLS TO REMAIN. REBALANCE AIRFLOW. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.
- 5 PRIOR TO BEGINNING WORK, COORDINATE COMPLETE INSTALLATION OF ALL ROOFTOP EQUIPMENT AND ACCESSORIES WITH GC AND OTHER TRADES.
- 6 EXISTING KITCHEN REFRIGERATION CONDENSING UNIT TO BE REINSTALLED ON EXISTING SUPPORT FRAME. PROVIDE NEW UNISTRUTS AND PROVIDE REQUIRED CLEARANCES TO ALL EQUIPMENT. PROVIDE NEW REFRIGERANT LINES FROM ROOF PENETRATION TO UNIT. SIZE TO MATCH EXISTING. COORDINATE REQUIRED REFRIGERANT TYPE/CHARGE AND STARTUP WITH EQUIPMENT MANUFACTURER AND GC. REPORT DEFICIENCIES TO ENGINEER AND CLIENT. CHEMICAL CLEAN UNIT AND PROVIDE NEW REAR WIRE GUARD.
- 7 KITCHEN FREEZER CONDENSING UNIT MOUNTED ON ROOFTOP. PROVIDE ROOFTOP SUPPORT RAILS. FURNISHED BY OWNER, INSTALLED BY MC IN COORDINATION WITH GC. PROVIDE R404A REFRIGERANT. 3/8" LIQUID LINE AND 7/8" SUCTION LINE BETWEEN INDOOR AND OUTDOOR UNIT PER EQUIPMENT MFR.
- 8 KITCHEN ICEMAKER CONDENSING UNIT MOUNTED ON EXISTING SUPPORT FRAME. PROVIDE NEW UNISTRUTS. FURNISHED BY OWNER, INSTALLED BY MC IN COORDINATION WITH GC. PROVIDE R404A REFRIGERANT. 3/8" LIQUID LINE AND 7/8" SUCTION LINE BETWEEN INDOOR AND OUTDOOR UNIT PER EQUIPMENT MFR.

- 9 MECHANICAL CONTRACTOR TO PROVIDE EQUIPMENT SUPPORTS, REFRIGERANT LINES, AND COMPLETE EQUIPMENT INSTALLATION. COORDINATE EXACT LOCATION OF EQUIPMENT ON-SITE AND ROUTE REFRIGERANT PIPING THROUGH ROOF PENETRATION. COORDINATE PIPING AND UNIT INSTALLATION REQUIREMENTS AND STARTUP WITH KITCHEN EQUIPMENT MANUFACTURER AND GC.
- 10 NEW REFRIGERATION PIPING ROOF PENETRATION. RE: CSMS.1
- 11 EXISTING REFRIGERATION PIPING ROOF PENETRATION. ALL REFRIGERANT PIPING SERVING EQUIPMENT ON SUPPORT FRAME SHALL BE ROUTED THROUGH EXISTING PENETRATION. ENSURE PENETRATION IS WATERTIGHT. RECONSTRUCT AS NECESSARY.
- 12 ROUTE CONDENSATE LINE DOWN THROUGH ROOF. RE: A1M1.1 FOR CONTINUATION AND RE: CSMS.1 FOR DETAIL.
- 13 REQUIRED UNIT CLEARANCE. COORDINATE EXACT CLEARANCE REQUIREMENTS WITH INSTALLED EQUIPMENT AND EXISTING CONDITIONS.
- 14 ROOFTOP MAKEUP AIR UNIT MOUNTED ON PRE-FABRICATED CURB. RE: A1M5.1.
- 15 MAKEUP AIR CONDENSING UNIT MOUNTED ON ROOFTOP. RE: C2M5.1. UNIT SHALL BE SECURED TO EQUIPMENT RAILS. MECHANICAL CONTRACTOR TO PROVIDE EQUIPMENT SUPPORTS, R-410A REFRIGERANT, DUAL CIRCUIT REFRIGERANT LINES (1/2" LIQUID, 1-3/8" SUCTION), AND COMPLETE EQUIPMENT INSTALLATION. COORDINATE PIPING AND UNIT INSTALLATION REQUIREMENTS AND STARTUP WITH EQUIPMENT MANUFACTURER AND GC.

MECHANICAL GENERAL NOTES

- A. REFER TO M0.1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B. SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE RTU MANUFACTURER IN THE SUPPLY AND RETURN SIDES OF RTU. COORDINATE INSTALLATION AND CONNECTION OF SMOKE DETECTORS WITH FA CONTRACTOR, EC, AND GC. REFERENCE M6.1 FOR RTU SCHEDULE. ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN RTU AND ACTIVATE THE AUDIBLE AND VISUAL SIGNAL PROVIDED.
- C. PROVIDE NECESSARY ACCESS AND CLEARANCES AROUND ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- D. MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN ALL NEW ROOF MOUNTED EQUIPMENT AND EDGE OF ROOF WITH THE EXCEPTION OF EQUIPMENT LOCATED BEHIND AN ARCHITECTURAL GUARD (MINIMUM 42" HIGH) OR PROVIDED WITH AN APPROVED FALL ARREST ANCHORAGE CONNECTOR DEVICE.
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- G. KITCHEN HOODS, ANSUL FIRE SUPPRESSION SYSTEM AND HOOD CONTROLS SHALL BE OWNER-FURNISHED AND CONTRACTOR-INSTALLED. COORDINATE WITH GC.
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 4. ALL SYSTEMS THAT ARE EXISTING TO REMAIN SHALL BE SERVICED, INCLUDING, BUT NOT LIMITED TO:
 - a. CLEANING ALL DUCTS/PIPES/VENTS/GRILLES/EQUIPMENT/COILS
 - b. REPLACING ALL BELTS AND FILTERS.
 - INSTALL ONE SET OF NEW FILTERS FOR EQUIPMENT THAT IS EXISTING TO REMAIN AT THE START OF CONSTRUCTION.
 - INSTALL NEW SET OF FILTERS AT PROJECT COMPLETION.



M1 MECHANICAL ROOF PLAN
1/4" = 1'-0"

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Date	Description
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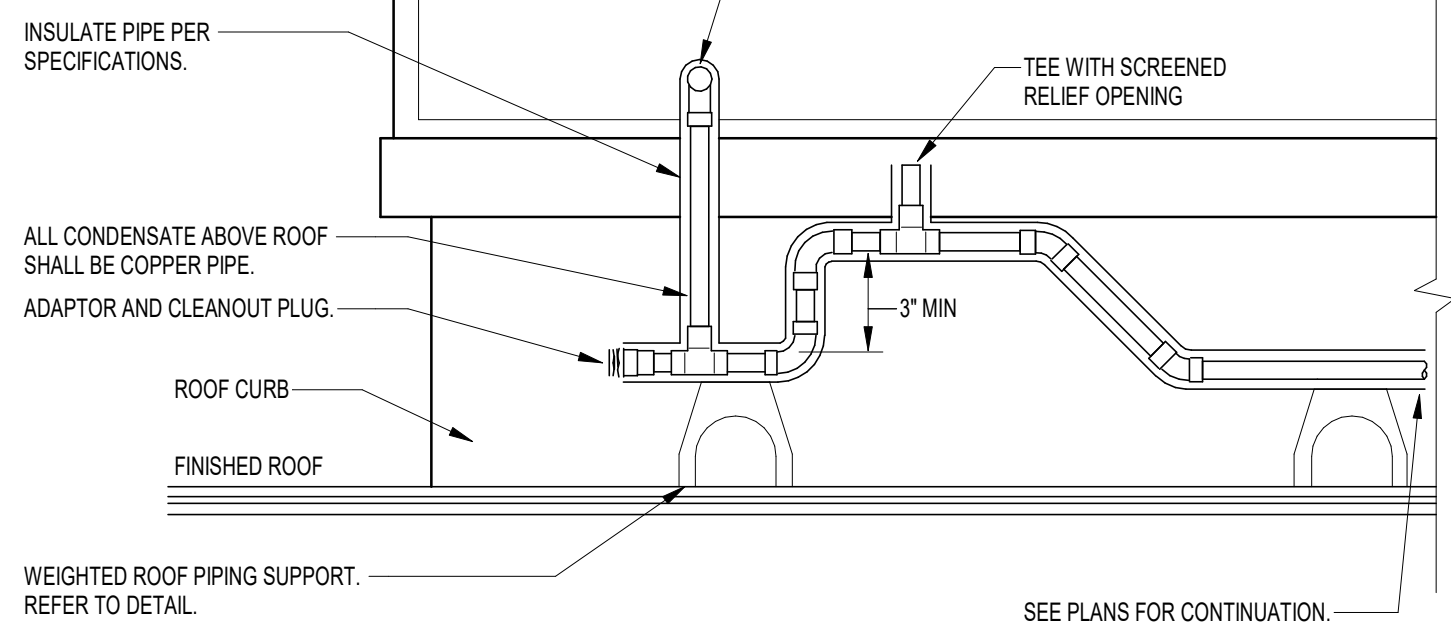
WHATABURGER HICKORY, NC
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MECHANICAL ROOF PLAN

Scale
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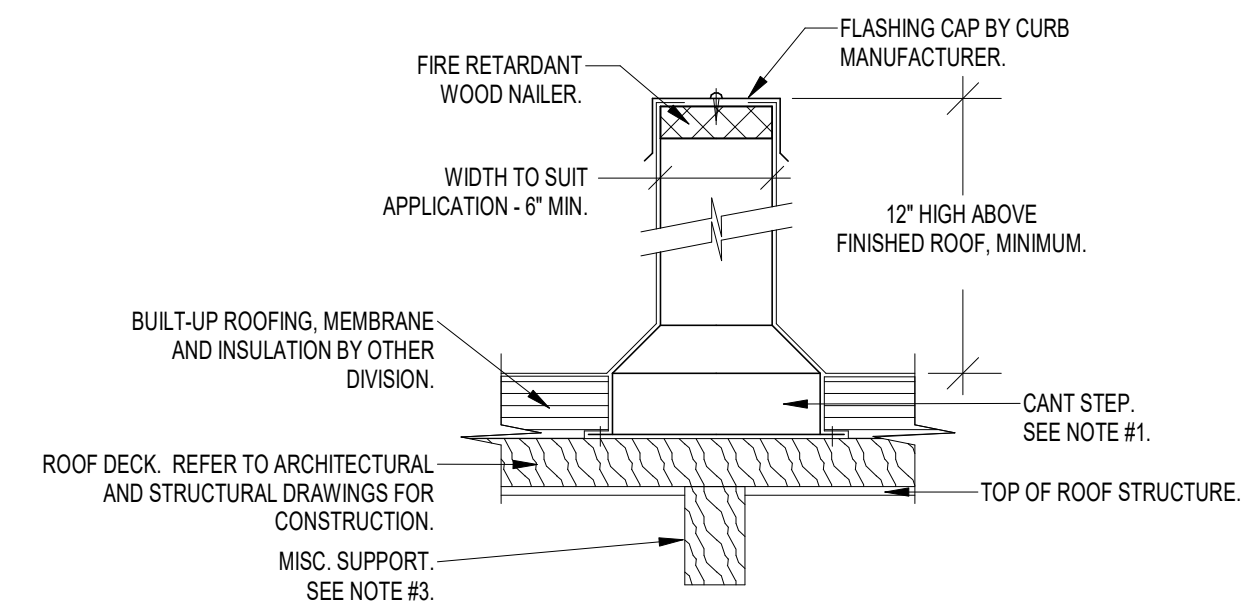
M2.1

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TONS	DRAIN SIZE
UP TO 40	1"
UP TO 90	1-1/4"
UP TO 125	1-1/2"

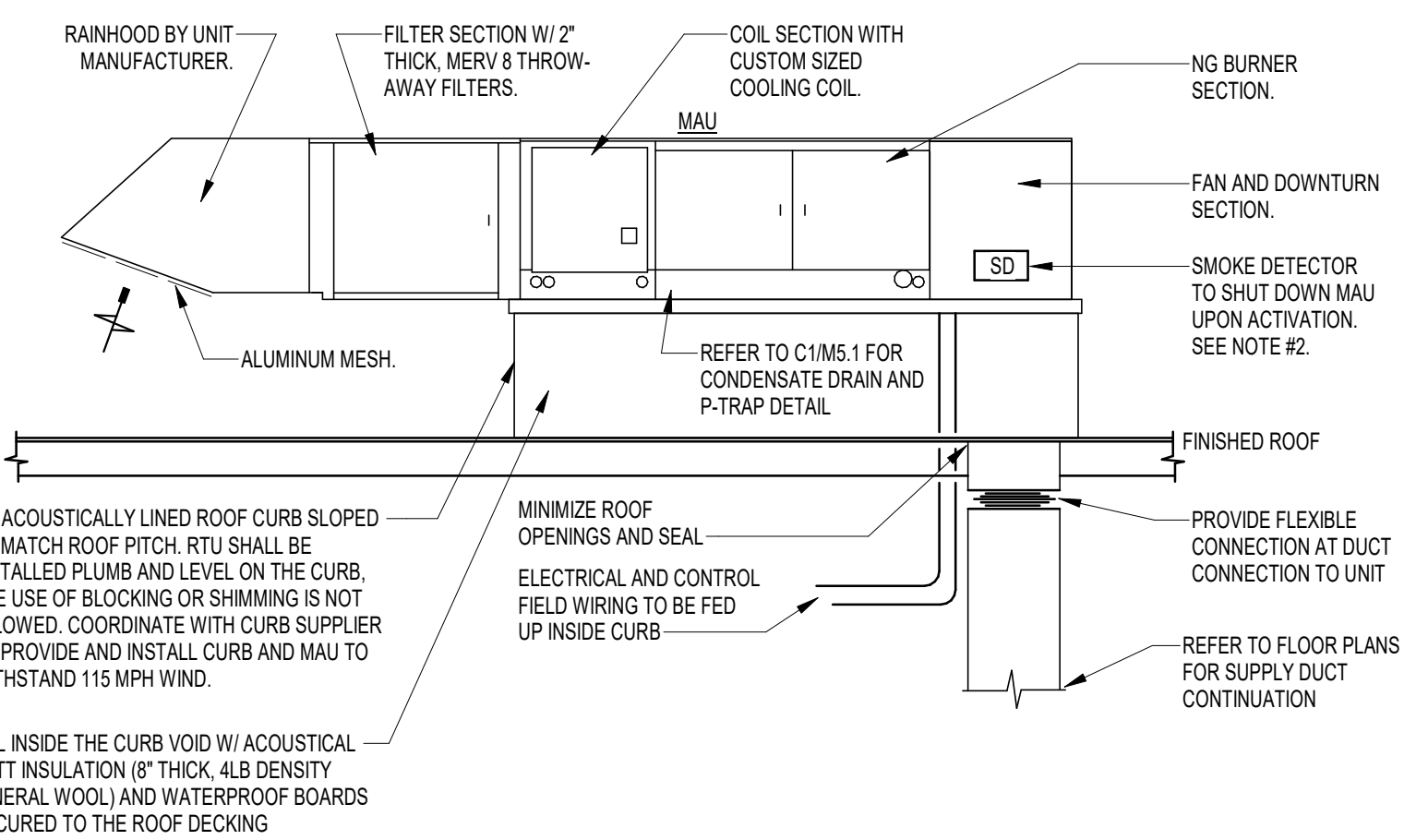


C1 RTU CONDENSATE DRAIN DETAIL
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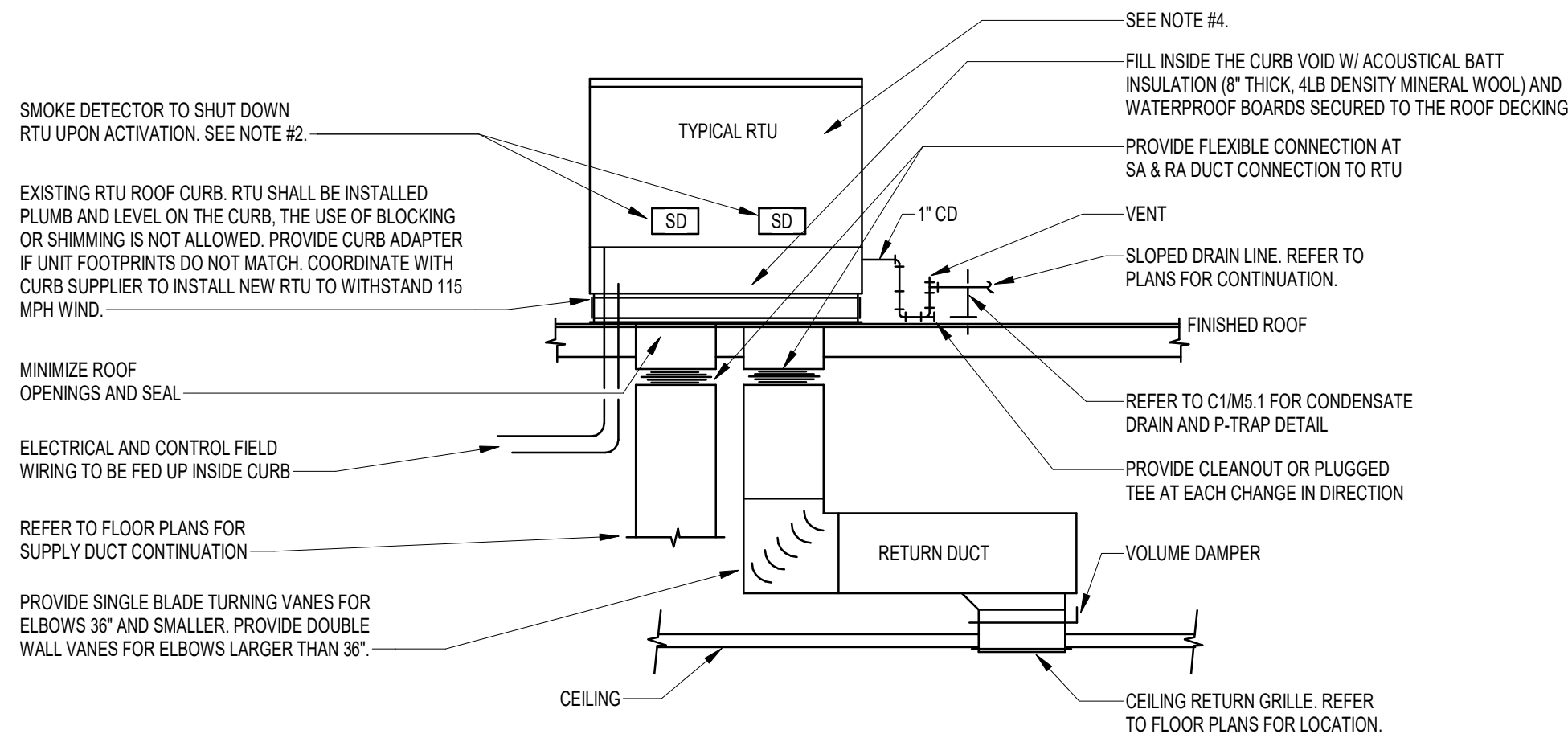
- NOTES:
1. THE RAISED CANT STEP HEIGHT SHALL BE COORDINATED WITH THICKNESS OF ROOF INSULATION ON ARCHITECTURAL DRAWINGS AND WITH THE ROOFING CONTRACTOR. SECURE RAIL TO THE ROOF DECK WITH LOAD RATED, RUST RESISTANT FASTENERS.
 2. THE RAIL SHALL BE DESIGNED AND FABRICATED TO THOROUGHLY SUPPORT ITS RESPECTIVE COMPONENT. AS A MINIMUM, RAILS SHALL BE FABRICATED OF 18 GAUGE GALVANIZED STEEL WITH BUILT-UP CANT, MONOLITHIC CONSTRUCTION WITH INTEGRAL BASE PLATE AND CONTINUOUS MITERED AND WELDED CORNER SEAMS. WITH FACTORY INSTALLED FIRE RETARDANT WOOD NAILER. EACH RAIL SHALL INCLUDE A MATCHING 18 GAUGE GALVANIZED STEEL COUNTERFLASHING CAP WITH INTEGRAL DRIP EDGE. ALL CORNERS MITERED AND WELDED, AND SCREWS FOR ATTACHMENT. EQUIPMENT CURBS OVER 3 FEET LONG SHALL INCORPORATE 1/4" GALVANIZED INTERNAL GUSSET REINFORCING. SECURELY FASTEN TO ROOF DECK AND INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHEN THE UNIT IS TO BE INSTALLED ON A PITCHED ROOF, COORDINATE WITH THE RAIL MANUFACTURER TO PROVIDE A PITCHED RAIL TO MATCH THE PITCH OF THE ROOF. THE EQUIPMENT PIPING/DUCTWORK SHALL BE INSTALLED LEVEL AND PLUMB.
 3. THE MECH. CONTRACTOR SHALL COORDINATE THE ORIENTATION OF THE EQUIP. RAILS TO SPAN A MINIMUM OF TWO ROOF BEAMS/JOISTS BELOW. PROVIDE MISC. FRAMING TO CONTINUOUSLY SUPPORT THE RAILS FROM BELOW.
 4. REFER TO THE KITCHEN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MOUNTING REQUIREMENTS TO DETERMINE THE FINAL LOCATION OF THE EQUIPMENT SUPPORT RAILS AND THEIR LENGTH. SECURE EQUIPMENT AS RECOMMENDED BY MANUFACTURER.

C2 ROOFTOP CONDENSING UNIT SUPPORT RAILS
N.T.S.



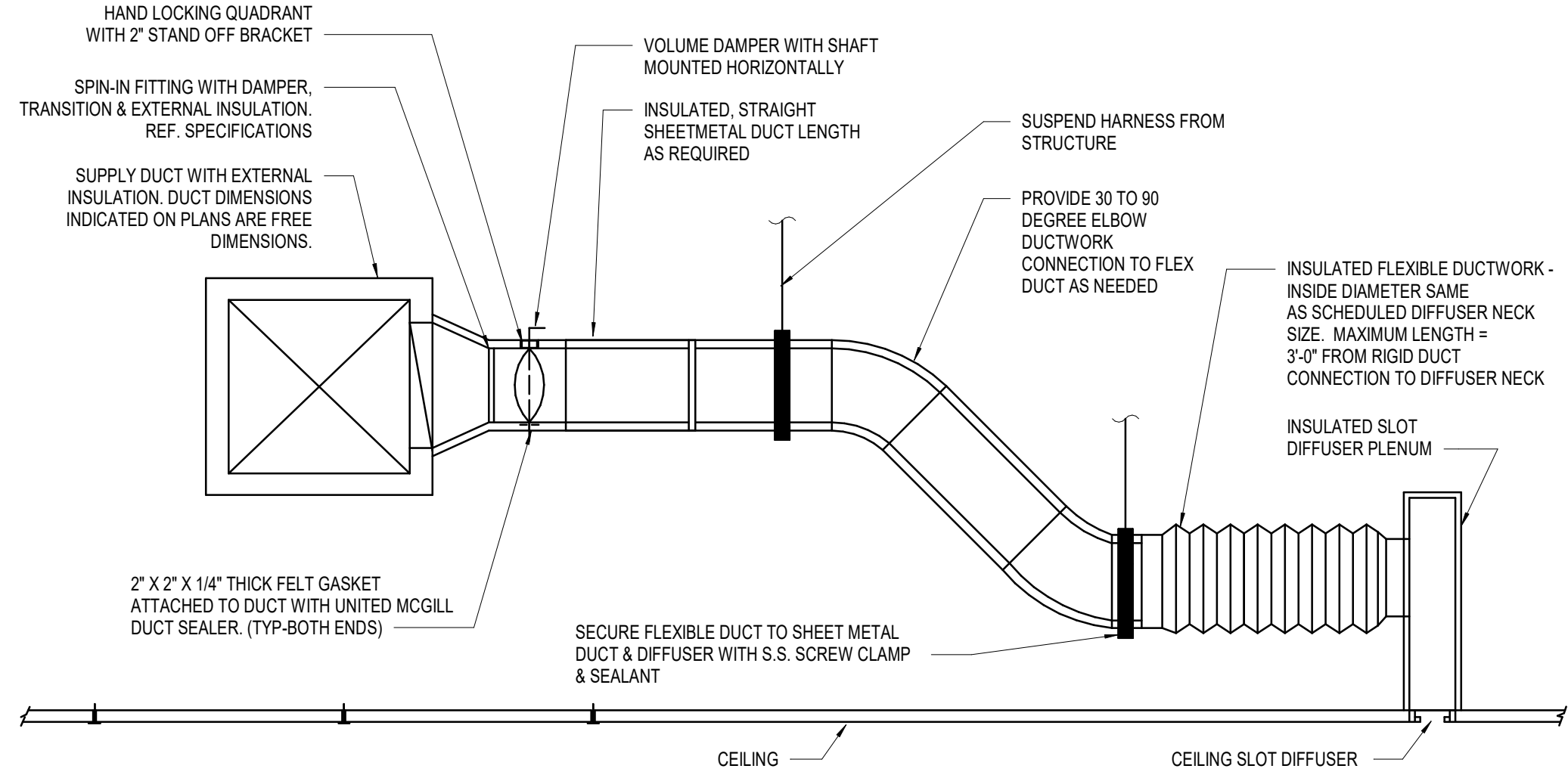
- NOTES:
1. DIMENSIONS OF CURB DIFFER FROM DIMENSIONS OF UNIT DUE TO THE FILTER BOX AND RAINHOOD.
 2. SMOKE DETECTOR SHALL BE PROVIDED AND INSTALLED BY THE MAU MANUFACTURER IN THE SUPPLY AIR STREAM OF THE UNIT. COORDINATE INSTALLATION AND CONNECTION OF SMOKE DETECTORS WITH EC AND GC. REFERENCE M6.1 FOR MAU SCHEDULE. ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN MAU AND ACTIVATE THE AUDIBLE AND VISUAL SIGNAL PROVIDED.
 3. GAS PIPING AND CONNECTIONS BY DIV. 22.
 4. PROVIDE ALL MANUFACTURER REQUIRED CLEARANCES TO UNIT.

A1 ROOFTOP MAKEUP AIR UNIT DETAIL
N.T.S.



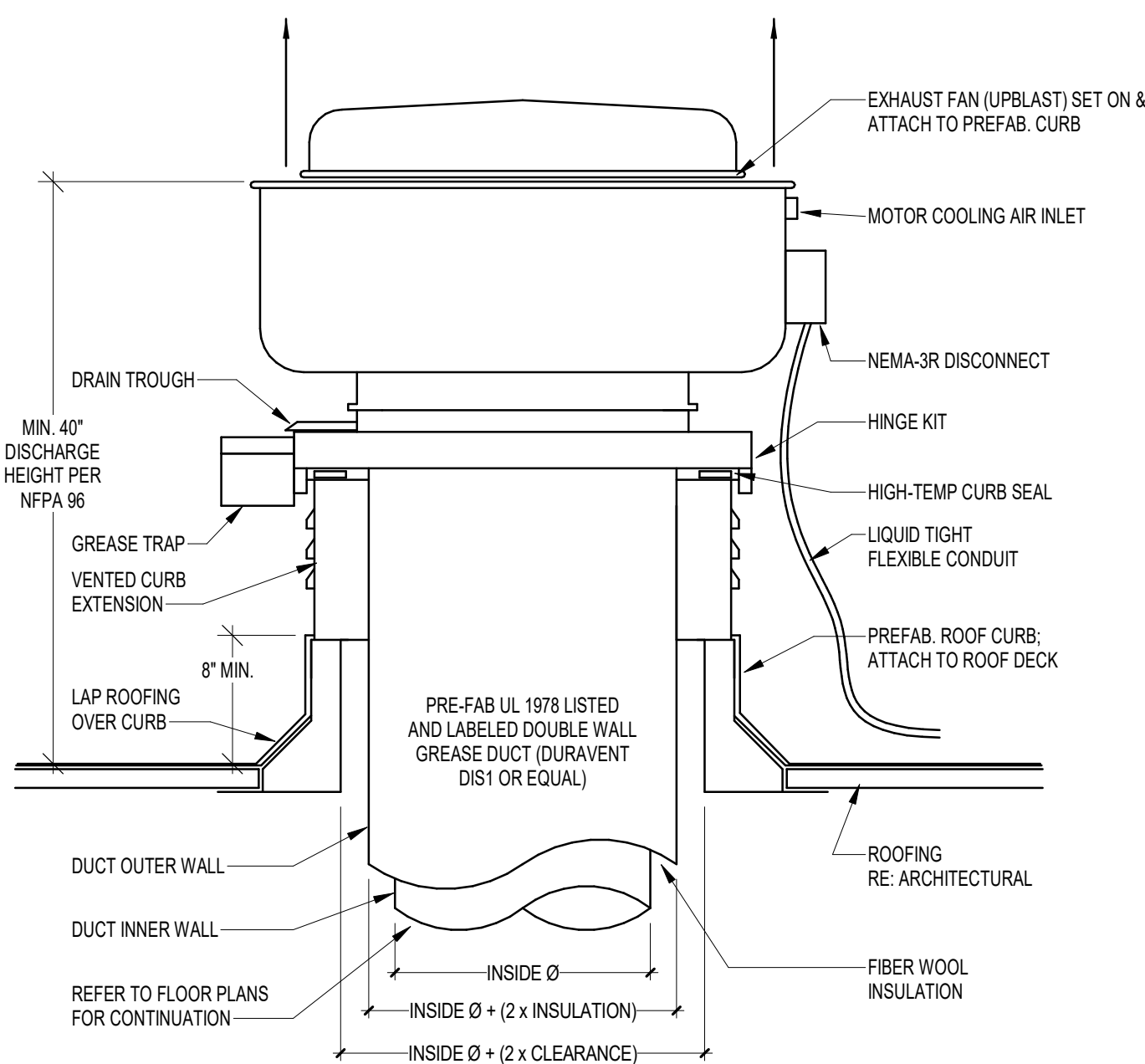
- NOTES:
1. DIMENSIONS OF CURB DIFFER FROM DIMENSIONS OF UNIT DUE TO THE SLOPED CONDENSER COIL.
 2. SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE RTU MANUFACTURER IN THE SUPPLY AND RETURN SIDES OF RTU. COORDINATE INSTALLATION AND CONNECTION OF SMOKE DETECTORS WITH FA CONTRACTOR, EC, AND GC. REFERENCE M6.1 FOR RTU SCHEDULE. ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN RTU AND ACTIVATE THE AUDIBLE AND VISUAL SIGNAL PROVIDED.

C3 ROOFTOP HVAC UNIT DETAIL
N.T.S.



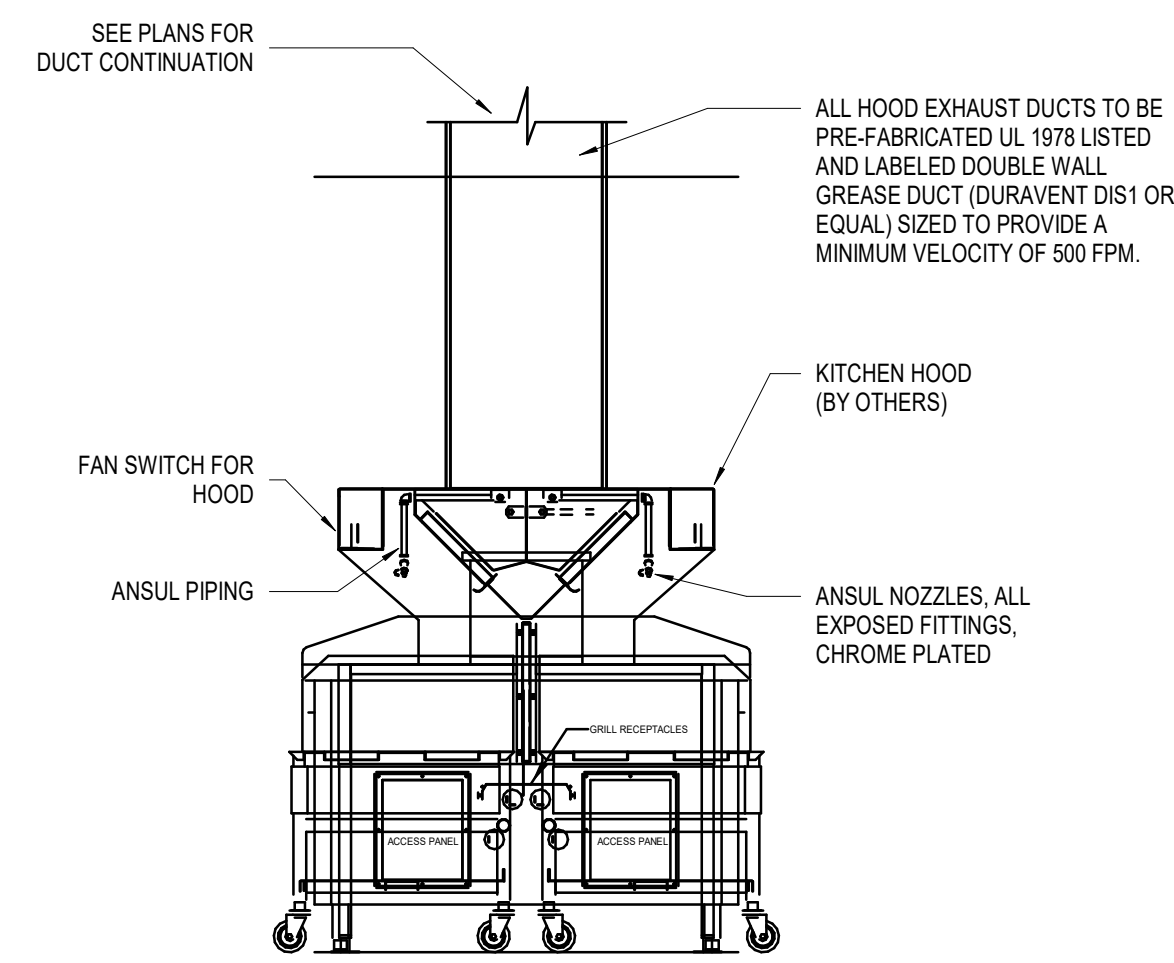
NOTE: INSTALL FLEXIBLE DUCTWORK SUPPORTS AT ALL ROUND NECK OUTLETS/INLETS UNLESS OTHERWISE NOTED ON DRAWINGS.

B1 PLENUM SLOT DIFFUSER DETAIL
N.T.S.

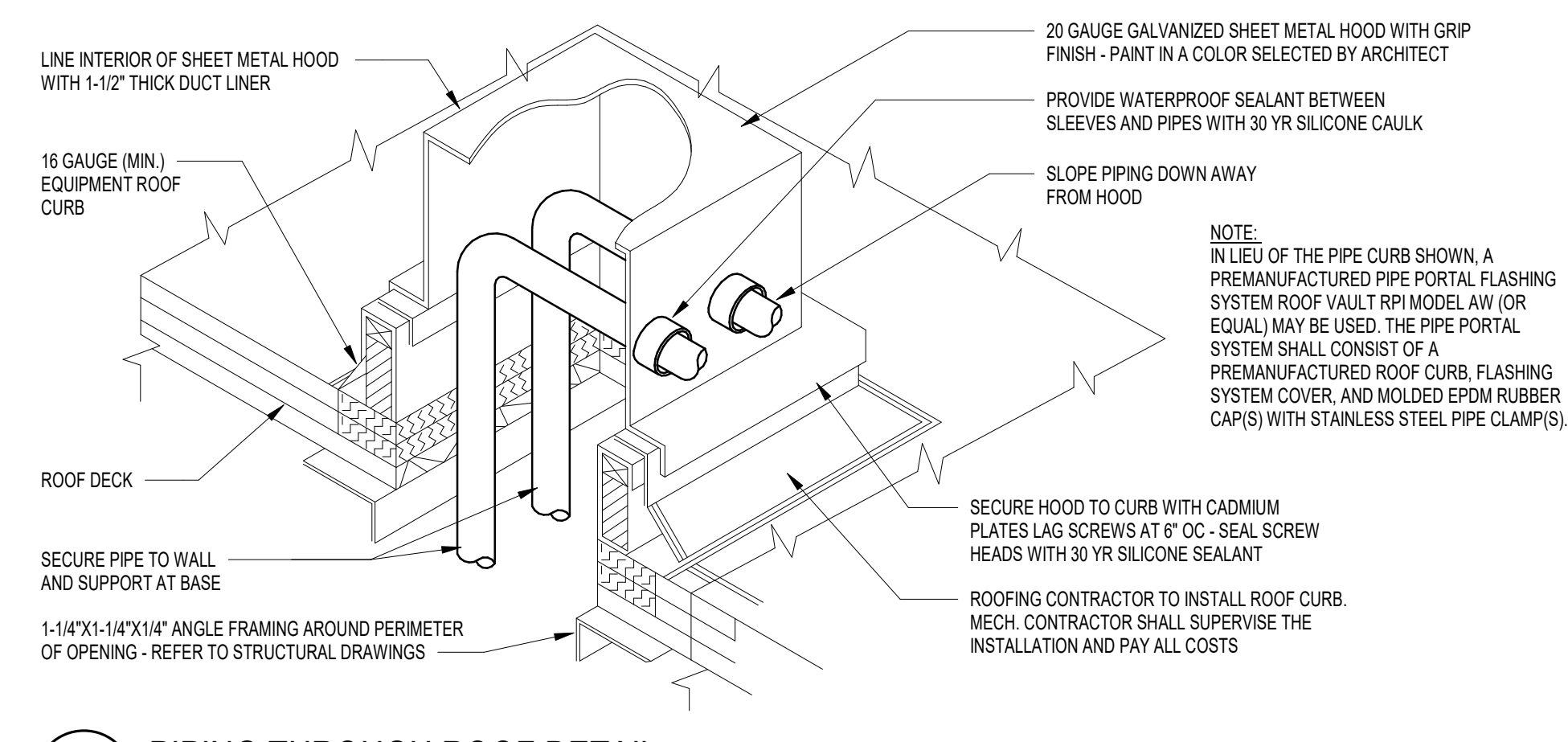


NOTE: ROOF OPENING DIMENSIONS BASED ON DUCT MANUFACTURER'S CLEARANCE REQUIREMENTS. MC TO PROVIDE FAN CURB WITH OPENING SIZE TO MEET GREASE DUCT CLEARANCE REQUIREMENTS.

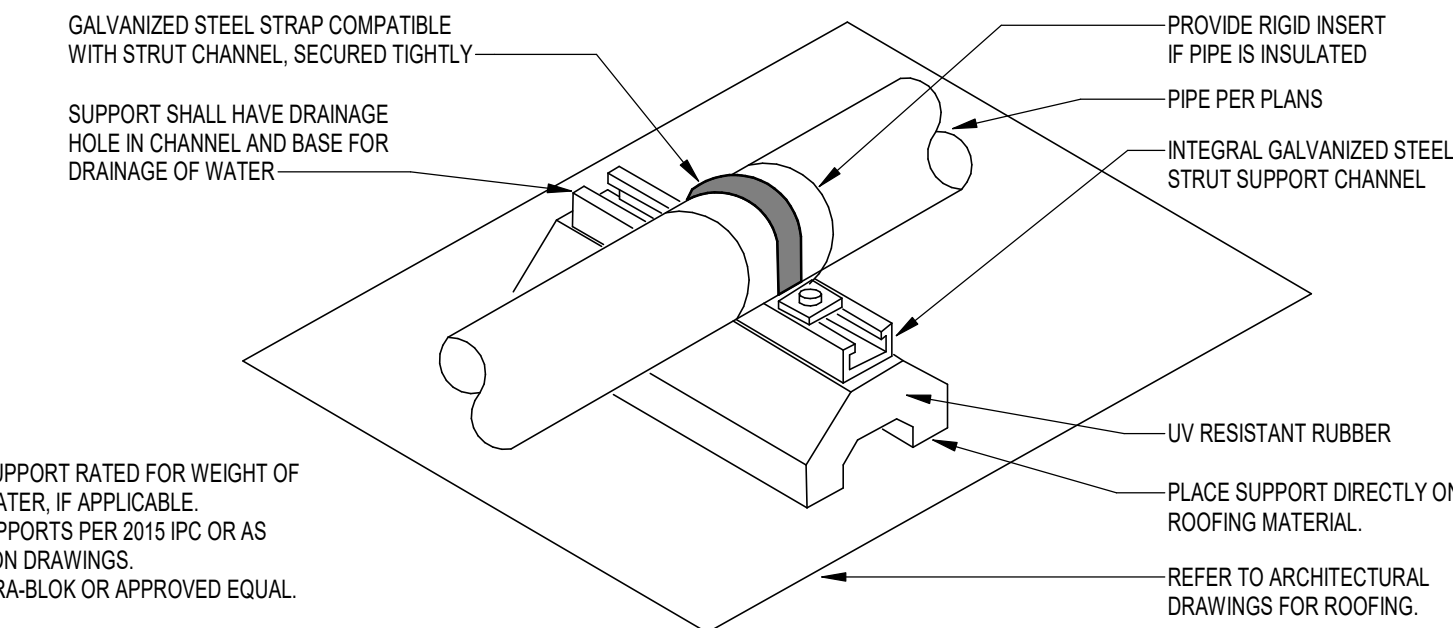
A2 ROOFTOP GREASE EXHAUST FAN DETAIL
N.T.S.



A3 LOW PROFILE HOOD DETAIL
N.T.S.

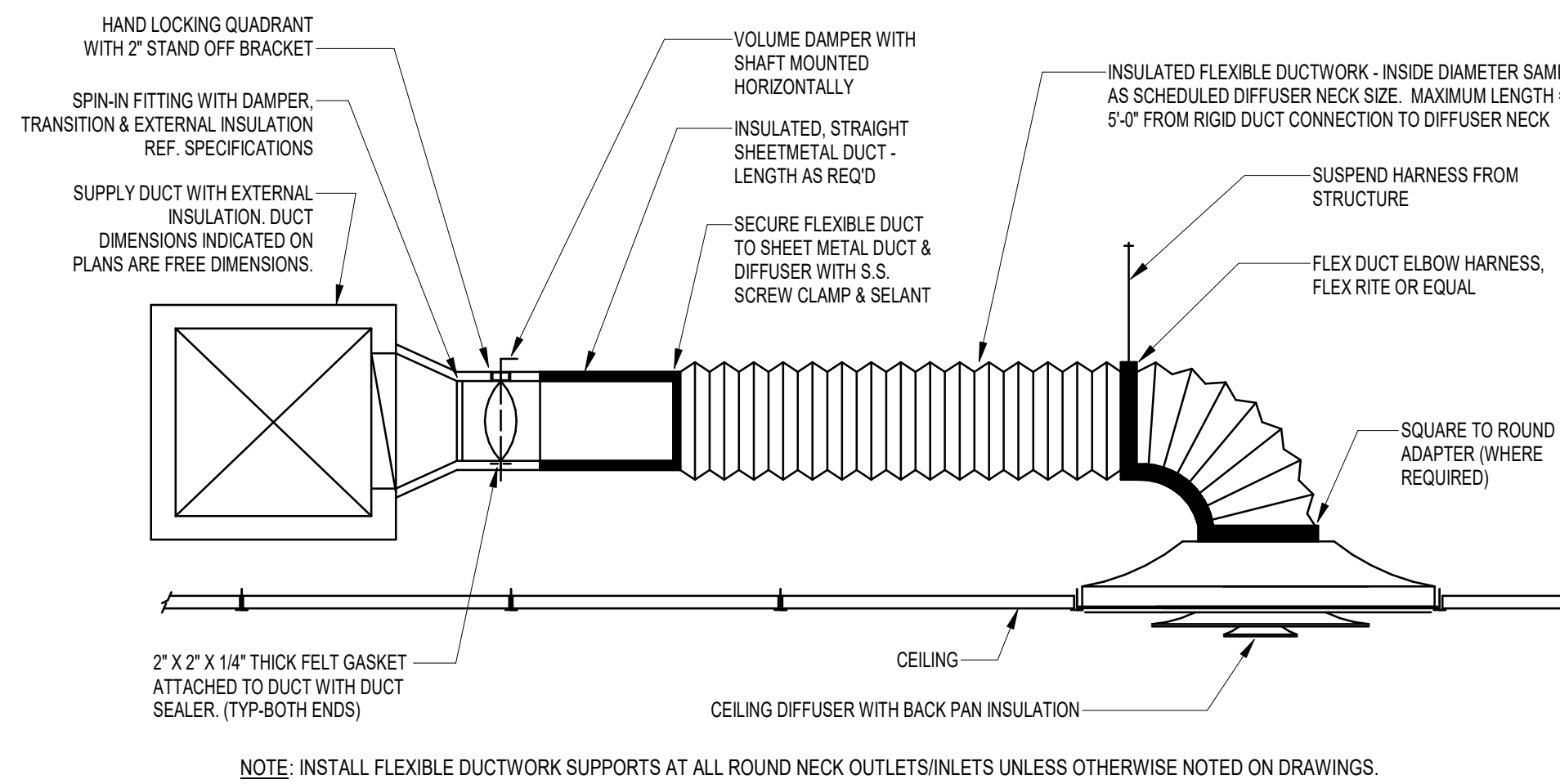


C4 PIPING THROUGH ROOF DETAIL
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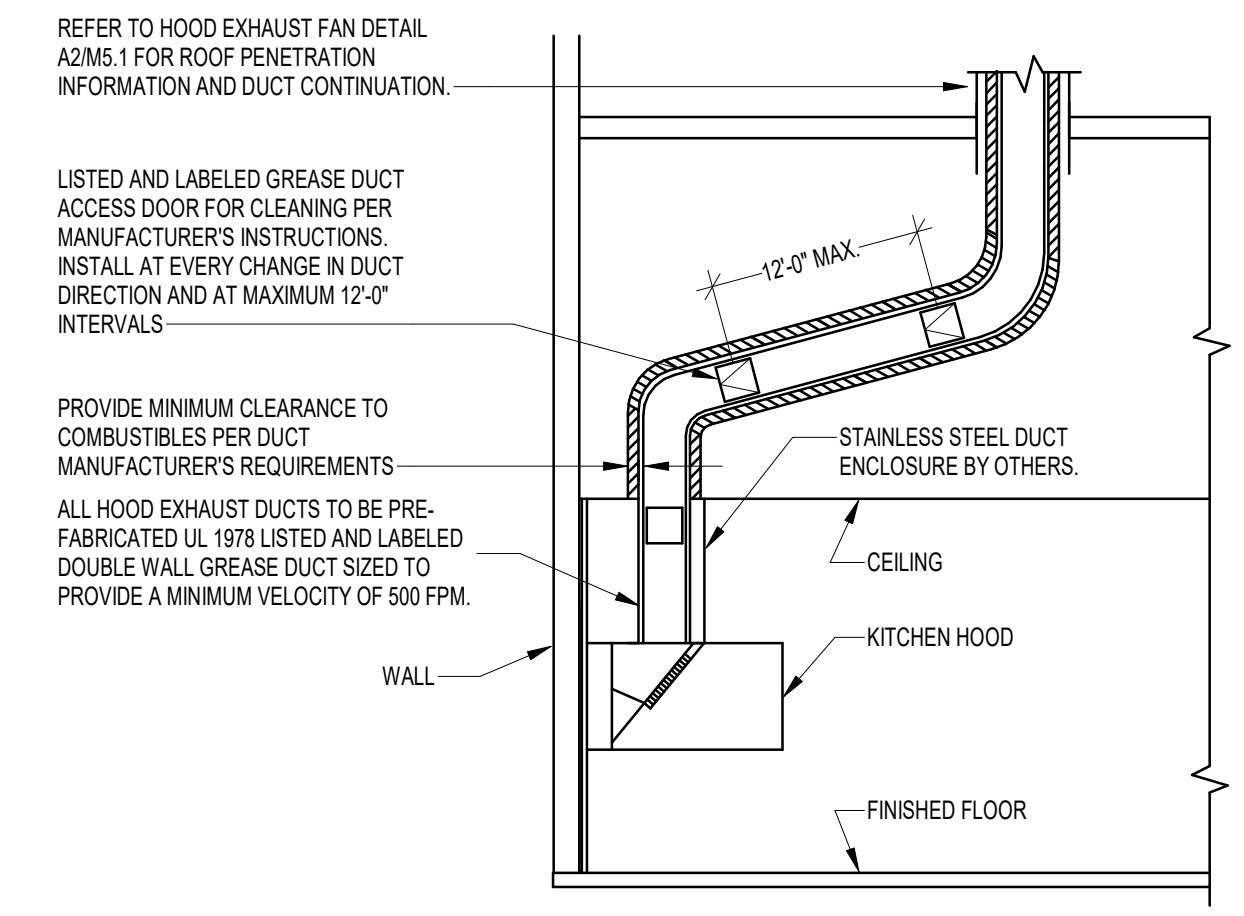
- NOTES:
1. SELECT SUPPORT RATED FOR WEIGHT OF PIPE AND WATER, IF APPLICABLE.
 2. SPACE SUPPORTS PER 2015 IPC OR AS INDICATED ON DRAWINGS.
 3. B-LINE DURA-BLOK OR APPROVED EQUAL.

C5 ROOFTOP PIPE SUPPORT DETAIL
N.T.S.



NOTE: INSTALL FLEXIBLE DUCTWORK SUPPORTS AT ALL ROUND NECK OUTLETS/INLETS UNLESS OTHERWISE NOTED ON DRAWINGS.

B2 DIFFUSER CONNECTION DETAIL
N.T.S.



A4 HOOD EXHAUST DUCT DETAIL
N.T.S.



Date	Description
------	-------------



Seal / Signature

WHATABURGER HICKORY, NC

Project Name

WHATABURGER

Date: 06/14/2024

Project Number

2302500

Description

MECHANICAL DETAILS

Scale

NOT TO SCALE

M5.1

FLEX DUCT SCHEDULE	
CFM RANGE	SIZE (DIAMETER)
<50	5
51-100	6
101-250	8
251-400	10
401-650	12
651-900	14
901-1300	16
1301-1800	18
1800-2300	20

NOTES:
1. ALL FLEX DUCT SHALL BE SIZED IN ACCORDANCE WITH FLEX DUCT SCHEDULE. PROVIDE RIGID REDUCER AT NECK OF AIR DEVICE TO TRANSITION FROM FLEX DUCT SIZE TO DIFFUSER INLET CONNECTION SIZE. FLEX DUCT LENGTH NOT TO EXCEED 5 FT.

ROOFTOP UNIT SCHEDULE																													
MARK	MANUFACTURER	MODEL	AREA SERVED	OA CFM	SUPPLY FAN				COOLING SECTION						HEATING SECTION					ELECTRICAL				FILTER TYPE	WEIGHT (LBS)	NOTES			
					CFM	ESP (*WG)	RPM	BHP	TYPE	REFRIG. TYPE	AMBIENT (*F) DB/WB	TOTAL OUTPUT (MBH)	SENS. OUTPUT (MBH)	EAT (*F) DB/WB	LAT (*F) DB/WB	EER / IEER	TYPE	AMBIENT (*F) DB/WB	INPUT (MBH)	OUTPUT (MBH)	STAGES	GAS PRESS. MIN / MAX (* WC)	VOLTS				PH	MCA	MOP
RTU-1	CARRIER	48FCN16	DINING	1250	5000	0.85	1651	2.24	DX	R-410A	92.0762	178.9	118.1	80.0674	57.5559	10.8/14.5	NAT. GAS	19.3	350	280	2	4.0/13.0	208	3	67	80	2" MERV 8	1845	1-12
(EX)RTU-2	CARRIER	48FCM09	KITCHEN	0	3200	0.7	1531	1.28	DX	R-410A	92.0762	95.7	77.7	75.0625	54.8523	11.2/15.0	NAT. GAS	19.3	180	148	2	4.0/13.0	208	3	41	50	2" MERV 8	1150	3.13,14,15
(EX)RTU-3	CARRIER	48FCM07	KITCHEN	410	2100	0.7	2134	1.03	DX	R-410A	92.0762	72.3	52.5	78.2655	58.7542	11.2/15.2	NAT. GAS	19.3	110	88	1	4.0/13.0	208	3	29	45	2" MERV 8	750	3.13,14,15

NOTES:
1. PROVIDE PREMIUM EFFICIENCY MOTORS IN ACCORDANCE WITH NEMA MG-1.
2. PROVIDE MANUFACTURER'S SUPPLY AND RETURN SMOKE DETECTORS TO SHUT DOWN UNIT UPON SMOKE DETECTION. COORDINATE CONNECTION TO AUDIBLE AND VISUAL ALARM WITH EC AND GC.
3. PROVIDE TERMINAL STRIP FOR FIELD INSTALLED CONTROLS.
4. UNIT CASING TO BE FULLY INSULATED AND COATED WITH SALT SPRAY RESISTANT PAINT.
5. UNIT TO HAVE MODULATING ADAPTIVE DEHUMIDIFICATION SYSTEM.
6. PROVIDE FACTORY INSTALLED HAIL GUARDS AND HINGED PANELS.
7. PROVIDE PRE-COATED EVAPORATOR AND CONDENSER COILS COIL AND CORROSION RESISTANT DRAIN PAN.
8. PROVIDE FACTORY MOUNTED AND WIRED CONDENSATE FLOW SWITCH AND FILTER SWITCH.
9. PROVIDE ULTRA-LOW LEAKAGE ECONOMIZER WITH BAROMETRIC RELIEF DAMPER, AND FAULT DETECTION AND DIAGNOSTIC.
10. PROVIDE 15-YEAR STAINLESS STEEL GAS HEAT EXCHANGER WITH STAGED CONTROL AND HIGH-LOW GAS PRESSURE SWITCHES.
11. PROVIDE NON-FUSED DISCONNECT.
12. UNIT TO BE INSTALLED ON EXISTING RTU CURB. PROVIDE COMPATIBLE CURB ADAPTER, CAMBRIDGEPORT MODEL 2010313 OR EQUAL. VERIFY DIMENSIONS AND CONFIGURATION IN FIELD PRIOR TO ORDERING.
13. PROVIDE FIELD INSTALLED HAIL GUARDS.
14. UNIT IS EXISTING TO REMAIN. DATA PROVIDED IS FOR REBALANCING AND COORDINATION PURPOSES.
15. PROVIDE NEW DUCT MOUNTED SUPPLY AND RETURN SMOKE DETECTORS TO SHUT DOWN UNIT UPON SMOKE DETECTION. COORDINATE CONNECTION TO AUDIBLE AND VISUAL ALARM WITH EC AND GC.

MAKEUP AIR UNIT SCHEDULE																																					
MARK	MANUFACTURER	MODEL	AREA SERVED	OA CFM	SUPPLY FAN					COOLING PERFORMANCE						COOLING COIL				HEATING SECTION					ELECTRICAL				FILTER TYPE	WEIGHT (LBS)	NOTES						
					TYPE	CFM	ESP (*WG)	TSP (*WG)	RPM	HP	DRIVE	TYPE	REFRIG. TYPE	TOTAL OUTPUT (MBH)	SENS. OUTPUT (MBH)	EAT (*F) DB/WB	LAT (*F) DB/WB	STAGES	ASSOCIATED UNIT	CIRCUITS	FPI	ROWS	SUCTION TEMP (*F)	TYPE	INPUT (MBH)	OUTPUT (MBH)	EAT (*F) DB	LAT (*F) DB				TURN DOWN	GAS PRESS. MIN / MAX (* WC)	VOLTS	PH	MCA	MOP
MAU-1	GREENHECK	DGX-P112-H12-MF	KITCHEN	2000	MIXED FLOW	2000	0.5	1.8	2375	1.5	DIRECT	SPLIT DX	R-410A	109.9	62.4	92.0762	63.7614	3	CU-1	2	10	4	45	NAT. GAS	130.8	120.3	19.3	75.0	30.1	7.0/14.0	208	3	8.7	15	2" MERV 8	1014	ALL

NOTES:
1. PROVIDE WITH PREMIUM EFFICIENCY MOTORS IN ACCORDANCE WITH NEMA MG-1.
2. PROVIDE WITH SUPPLY AIR SMOKE DETECTOR TO SHUT DOWN UNIT UPON SMOKE DETECTION. COORDINATE WITH ELECTRICAL CONTRACTOR AND GC.
3. PROVIDE WITH TERMINAL STRIP FOR FIELD INSTALLED CONTROLS.
4. PROVIDE DOUBLE WALL INSULATED UNIT CONSTRUCTION WITH MINIMUM 2500-HOUR SALT SPRAY RESISTANT PAINT AND HINGED ACCESS DOORS.
5. PROVIDE COOLING SECTION WITH DUAL CIRCUIT DX COIL, STAINLESS STEEL DRAIN PAN, AND CONDENSATE FLOW SWITCH. COORDINATE FINAL SELECTION OF COOLING COIL TO MATCH CAPACITY AND COMPATIBILITY WITH SPLIT CONDENSING UNIT.
6. PROVIDE WEATHER HOOD WITH ALUMINUM MESH AND LOW LEAKAGE CLASS 1A MOTORIZED OUTSIDE AIR DAMPER WITH ECONOMIZER CONTROLS AND FAULT DETECTION DIAGNOSTICS.
7. PROVIDE STAINLESS STEEL GAS HEAT EXCHANGER WITH MODULATING CONTROL, HIGH & LOW GAS PRESSURE SWITCHES, FLAME SENSING, AND FIRE STAT TYPE II.
8. PROVIDE FACTORY POWERED GFCI CONVENIENCE OUTLET, NON-FUSED DISCONNECT, AND AUXILIARY CONTACTS FOR INTERLOCK WITH KITCHEN EXHAUST.
9. PROVIDE V-BANK FILTER SECTION WITH 2" MERV 8 FILTERS AND DIRTY FILTER SWITCH.
10. PROVIDE 14" HIGH INSULATED PRE-FABRICATED CURB FOR PITCHED ROOF.
11. PROVIDE DOWNFLOW CONFIGURATION SUPPLY FAN WITH VFD.

AIR DEVICE SCHEDULE									
MARK	MANUFACTURER	MODEL	FACE SIZE (IN.)	NECK SIZE (IN.)	MAX NC	PATTERN	MOUNTING	SYSTEM CLASS	COMMENTS
A1	TITUS	TMS	24x24	8	30	4-WAY	LAY-IN	SUPPLY AIR	1
A2	TITUS	TMS	24x24	8	30	4-WAY	LAY-IN	SUPPLY AIR	1
A3	TITUS	TMS	24x24	10	30	4-WAY	LAY-IN	SUPPLY AIR	1
A4	TITUS	TMS	24x24	12	30	4-WAY	LAY-IN	SUPPLY AIR	1
C1	TITUS	350FL	12x12	6x6	30	-	LAY-IN	RETURN AIR	2
C2	TITUS	350FLF1	24x24	20x20	30	-	LAY-IN	RETURN AIR	
C3	TITUS	350FLF1	24x24	20x20	30	-	FLANGE	RETURN AIR	

NOTES:
1. PROVIDE MOLDED INSULATION BLANKET (R-6).
2. PROVIDE PANEL FOR MOUNTING IN CEILING GRID.

CONDENSING UNIT SCHEDULE																			
MARK	MANUFACTURER	MODEL	ASSOCIATED UNIT	NOMINAL TONS	COOLING PERFORMANCE					COOLING COIL			ELECTRICAL				WEIGHT (LBS)	NOTES	
					TYPE	REFRIG. TYPE	AMBIENT TEMP (*F) DB/WB	TOTAL OUTPUT (MBH)	SENS. OUTPUT (MBH)	STAGES	EER / IEER	CIRCUITS	SUCTION TEMP (*F)	VOLTS	PH	MCA			MOP
CU-1	CARRIER	38AUDT12	MAU-1	10	SCROLL	R-410A	95	115.7	65.7	3	11.2/11.6	2	45	208	3	38.8	50	516	ALL

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING SIZES SHALL BE BY UNIT MANUFACTURER.
2. PROVIDE TXV, REFRIGERANT FILTER DRIER, AND ISOLATION VALVES (INSTALL PER MANUFACTURER'S RECOMMENDATION).
3. COORDINATE FINAL SELECTION OF UNIT TO MATCH CAPACITY AND COMPATIBILITY WITH MAU COOLING COIL.
4. PROVIDE HAIL GUARDS, CRANKCASE HEATER, ANTI-SHORT-CYCLING PROTECTION, AND HIGH-LOW PRESSURE SAFETY SWITCHES.
5. SUBJECT TO COMPLIANCE WITH ALL CRITERIA, EQUAL PRODUCTS BY DAIKIN, LENNOX, YORK OR TRANE.

EXHAUST FAN SCHEDULE													
MARK	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	TSP (*WG)	RPM	BHP	HP	DRIVE TYPE	VOLTS	PH	WEIGHT (LBS.)	NOTES
(EX) EF-1	COOK	90C15DH	ROOF-MOUNTED CENTRIFUGAL DOWNBLAST	300	0.50	1500	0.05	0.13	DIRECT	120	1	40	1
KEF-1	GREENHECK	CUE-140-VG	ROOF-MOUNTED CENTRIFUGAL UPBLAST	1994	1.00	1519	0.66	1.00	DIRECT	208	1	148	3,4,5,6
KEF-2	GREENHECK	CUE-120-VG	ROOF-MOUNTED CENTRIFUGAL UPBLAST	1216	1.00	1539	0.33	0.50	DIRECT	208	1	115	3,4,5,6

NOTES:
1. EXHAUST FAN AND CONTROLS ARE EXISTING TO REMAIN. DATA PROVIDED IS FOR REBALANCING AND COORDINATION PURPOSES.
2. NOT USED.
3. PROVIDE WITH INTEGRAL DISCONNECT SWITCH NEMA-3R.
4. PROVIDE GREASE BOX.
5. PROVIDE INSULATED AND VENTED 24" HIGH ROOF CURB AND HIGH TEMPERATURE CURB SEAL.
6. PROVIDE HINGED ACCESS KIT.

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)**

**MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT**

Thermal Zone

winter dry bulb: 19.3°F
summer dry bulb: 92.0°F

Interior design conditions

winter dry bulb: 70°F
summer dry bulb: 75°F
relative humidity: 50%

Building heating load: 424.8 MBh

Building cooling load: 393.5 MBh

Mechanical Spacing Conditioning System

Unitary description of unit: Packaged RTUs, Split DX Makeup Air
heating efficiency: 80% to 92%
cooling efficiency: 10.8 to 11.2 EER, 11.6 to 15.2 IEER
size category of unit: 6 to 15 tons

Boiler Size category. If oversized, state reason.: N/A

Chiller Size category. If oversized, state reason.: N/A

List equipment efficiencies: See Above

2018 NC Administrative Code and Policies

Revised 6/15/2020



**COMcheck Software Version 4.1.5.1
Mechanical Compliance Certificate**

Project Information

Energy Code: 2015 IECC
Project Title: Whataburger
Location: Hickory (Catawba), North Carolina
Climate Zone: 4a
Project Type: Alteration

Construction Site: 2060 US Hwy 70 SE
Greenville, NC 28602

Owner/Agent: Whataburger

Designer/Contractor: BL Companies, Inc.
355 Research Parkway
Meriden, CT 06450

Mechanical Systems List

Quantity System Type & Description
1 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 280 kBtu/h
Proposed Efficiency = 80.00% EER, Required Efficiency: 80.00 % EER
Cooling: 1 each - Single Package DX Unit, Capacity = 179 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 10.80 EER, Required Efficiency: 10.80 EER + 12.2 IEER
Fan System: FAN SYSTEM 1 | RTU-1 -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 1 Supply, Constant Volume, 5000 CFM, 5.0 motor nameplate hp, 0.0 fan efficiency grade
1 MAU-1/CU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h
Proposed Efficiency = 91.90% EER, Required Efficiency: 80.00 % EER or 78% AFUE
Cooling: 1 each - Split System, Capacity = 116 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.20 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: FAN SYSTEM 4 | MAU-1 -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 4 Supply, Constant Volume, 2000 CFM, 1.5 motor nameplate hp, 0.0 fan efficiency grade

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Philip Anderson - Project Engineer Signature: *Philip Anderson* Date: 06/12/2024

Project Title: Whataburger Report date: 06/12/24
Data filename: G:\08523\24\2302500\DOCs\Comcheck\2302500-Comcheck WB Hickory, NC.cck

AIR BALANCE AND VENTILATION CALCULATION:

TOTAL OUTSIDE AIR INTAKE = 3660 CFM
TOTAL GREASE HOOD EXHAUST = 3210 CFM
TOTAL RESTROOM EXHAUST = 300 CFM
OUTSIDE AIRFLOW - (GREASE HOOD EXHAUST AIRFLOW + RESTROOM EXHAUST AIRFLOW) = NET POSITIVE AIRFLOW
3660 CFM - (3210 + 300) = 150 CFM
BALANCE REPORT TO BE PROVIDED TO INSPECTOR, OWNER, AND ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

VENTILATION CALCULATION PER IMC 2021, TABLE 403.3.1.1:

HVAC UNIT	AREA SERVED	CLASSIFICATION	OCCUPANT LOAD	REQUIRED VENTILATION	O.A./E.A. REQUIRED (CFM)	O.A./E.A. DESIGN (CFM)	REMARKS
RTU-1	DINING ROOM 100	CAFETERIA, FAST FOOD	110 (1648 SQFT)	7.5 CFM / PERSON 0.18 CFM / SQFT	1122	1195	
	ORDER COUNTER 101	RECEPTION AREAS	4 (144 SQFT)	5 CFM / PERSON 0.06 CFM / SQFT	29		
	WOMEN 102	TOILET ROOMS (PRIVATE)	0 (120 SQFT)	0 CFM / PERSON 0 CFM / SQFT	0	27.5	
	MEN 103	TOILET ROOMS (PRIVATE)	0 (92 SQFT)	0 CFM / PERSON 0 CFM / SQFT	0	27.5	
CALCULATED OUTSIDE AIR FOR SYSTEM TOTAL					1151	1250	
RTU-2, RTU-3, MAU-1	DRIVE-THRU 104	KITCHENS (COOKING)	1 (28 SQFT)	7.5 CFM / PERSON 0.12 CFM / SQFT	11	2351	
	KITCHEN COOKLINE 109	KITCHENS (COOKING)	15 (1380 SQFT)	7.5 CFM / PERSON 0.12 CFM / SQFT	278		
	OFFICE 106	OFFICE SPACES	40 (SQFT)	5 CFM / PERSON 0.06 CFM / SQFT	8	20	
	STORAGE AREA 108	STORAGE ROOMS	1 (84 SQFT)	0 CFM / PERSON 0.12 CFM / SQFT	10	39	
CALCULATED OUTSIDE AIR FOR SYSTEM TOTAL					307	2410	OA ADDED FOR KITCHEN EXHAUST MAKEUP
KEF-1, KEF-2	TOTAL KITCHEN AREAS	KITCHENS (COOKING)	1408 SQFT	0.7 CFM / SQFT	986	3210	
	CALCULATED EXHAUST AIR FOR SYSTEM TOTAL					986	3210
(EX) EF-1	WOMEN 102	TOILET ROOMS (PRIVATE)	2 W.C.	50 CFM / W.C.	100	150	
	MEN 103	TOILET ROOMS (PRIVATE)	2 W.C.	50 CFM / W.C.	100	150	
CALCULATED EXHAUST AIR FOR SYSTEM TOTAL					200	300	



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Meriden, CT 06450
(203) 630-1466
(203) 630-2615 Fax

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PREPARED FOR:



△ Date Description

Seal / Signature



WHATABURGER HICKORY, NC

Project Name

WHATABURGER

Date: 06/14/2024

Project Number

2302500

Description

MECHANICAL SCHEDULES

Scale

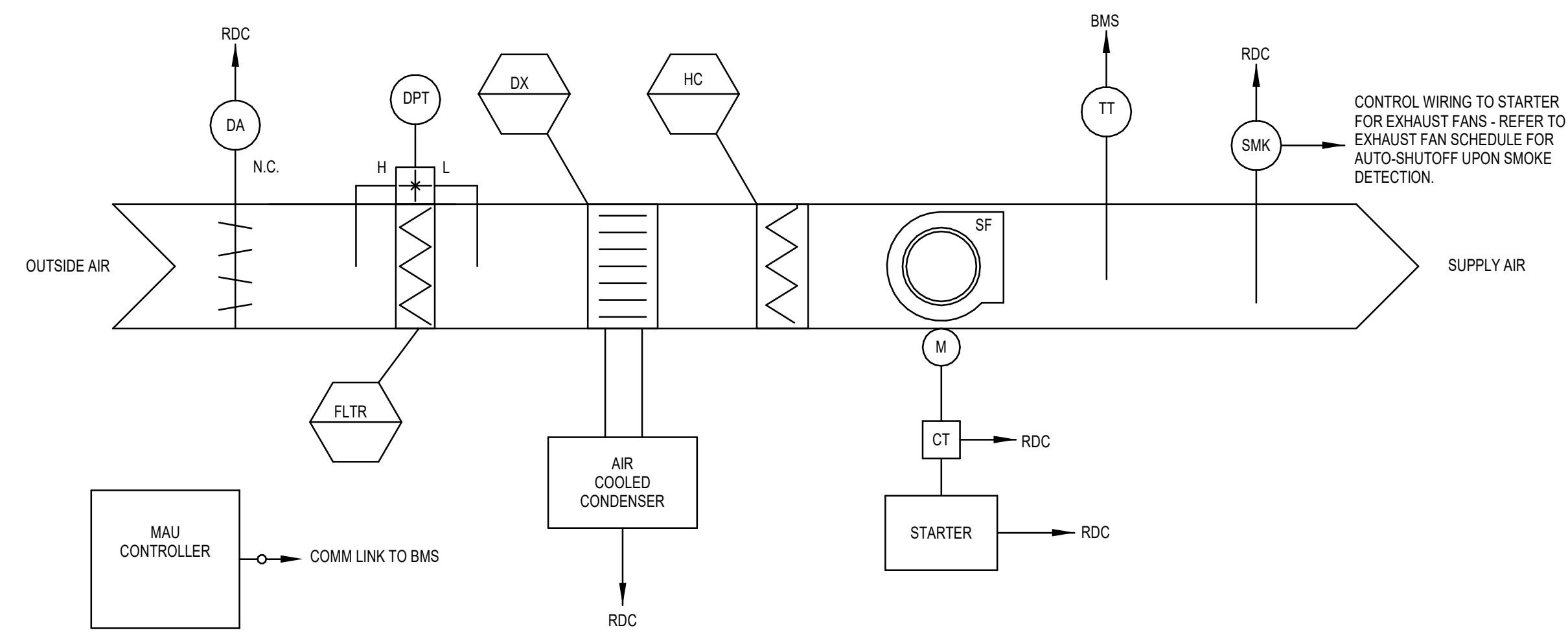
NOT TO SCALE

M6.1

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CONTROL SYMBOLS

AE	ANALYZER ELEMENT	CO	CARBON MONOXIDE SENSOR
DDC	DIRECT DIGITAL CONTROL	COMMUNICATION SIGNAL	
BMS	BUILDING MANAGEMENT SYSTEM	HPS	HIGH STATIC PRESSURE SENSOR
RDC	ROOFTOP UNIT DDC CONTROLLER	DA	DAMPER ACTUATOR
FACP	FIRE ALARM CONTROL PANEL	CV	CONTROL VALVE
DPI	DIFFERENTIAL PRESSURE INDICATOR	DX	DX COOLING COIL
DPS	DIFFERENTIAL PRESSURE SWITCH	HC	NATURAL GAS HEATING COIL
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	HGR	HOT GAS REHEAT
EDH	ELECTRIC DUCT HEATER	SF	SUPPLY AIR FAN
EF	EXHAUST FAN		
FE	FLOW ELEMENT		
FLTR	FILTER		
FS	FLOW SWITCH		
H	HUMIDISTAT		
HL	HIGH TEMPERATURE LIMIT SWITCH		
M	MOTOR		
PCV	PRESSURE CONTROL VALVE		
PT	PRESSURE TRANSMITTER		
SMK	SMOKE DETECTOR		
T	TEMPERATURE SENSOR		
TCV	TEMPERATURE CONTROL VALVE		
TSL	LOW LIMIT THERMOSTAT (FREEZE/STAT)		
TT	TEMPERATURE TRANSMITTER		
VFD	VARIABLE FREQUENCY DRIVE		
STARTER	MOTOR STARTER (PROVIDE CONTROL RELAY)		
CT	CURRENT TRANSDUCER		
OS	OCCUPANCY SENSOR		



SEQUENCE OF OPERATION

OPERATING CONDITION - INTERLOCKED WITH KITCHEN EXHAUST

THE MAU CONTROLLER (RDC) SHALL PERFORM ALL CONTROL, SAFETY AND INTERLOCKS AS DESCRIBED IN THE SEQUENCE OF OPERATION. THE BMS SHALL MONITOR THE MAU DDC CONTROLLER VIA BMS PROTOCOL COMMUNICATION AND/OR COMBINATION OF DISCRETE INPUT/OUTPUT POINTS. THE BMS SHALL OPERATE THE UNIT INTERLOCKED WITH THE KITCHEN EXHAUST FANS. WHEN THE UNIT IS DE-ENERGIZED BY THE BMS, THE FAN SHALL SHUT DOWN. THE OA DAMPER SHALL CLOSE. THE REFRIGERATION SYSTEM SHALL ALSO BE DE-ENERGIZED AND THE HEATING SYSTEM LOCKED OUT OF HEATING MODE.

THE BMS SHALL BE PROGRAMMED SO THAT THE HEATING AND COOLING SYSTEMS SHALL NEVER OPERATE SIMULTANEOUSLY.

TEMPERATURE CONTROL

OCCUPIED MODE - THE BMS WILL MAINTAIN THE FOLLOWING SPACE TEMPERATURE SETPOINTS:

- COOLING: 75°F, 55% RH (ADJUSTABLE)
- HEATING: 70°F (ADJUSTABLE)

SETBACK MODE - THE BMS WILL MAINTAIN THE FOLLOWING SPACE TEMPERATURE SETPOINTS:

- COOLING: 85°F (ADJUSTABLE) (ADJUST TO 80°F 1-HR PRIOR TO OCCUPANCY)
- HEATING: 60°F (ADJUSTABLE) (ADJUST TO 65°F 1-HR PRIOR TO OCCUPANCY)

THERE SHALL BE A DEADBAND OF +/- 5°F ON ALL TEMPERATURE CONTROL.

SEQUENCE OF OPERATION (CONTINUED)

ECONOMIZER OPERATION

THE UNIT SHALL OPERATE AS A 100% OA UNIT. THERE SHALL BE ONE FAN SPEED.

UNIT SHUTDOWN

UNIT SHALL BE DE-ENERGIZED UPON DETECTION OF SMOKE IN DUCT.

ALARMS

THE BMS SHALL MONITOR ALL SAFETIES ON THE REFRIGERATION SYSTEM AND THE HEATING SYSTEM THROUGH THE RDC COMMUNICATION PROTOCOL. ALL ABNORMAL CONDITIONS SHALL BE ALARMED AT THE BMS.

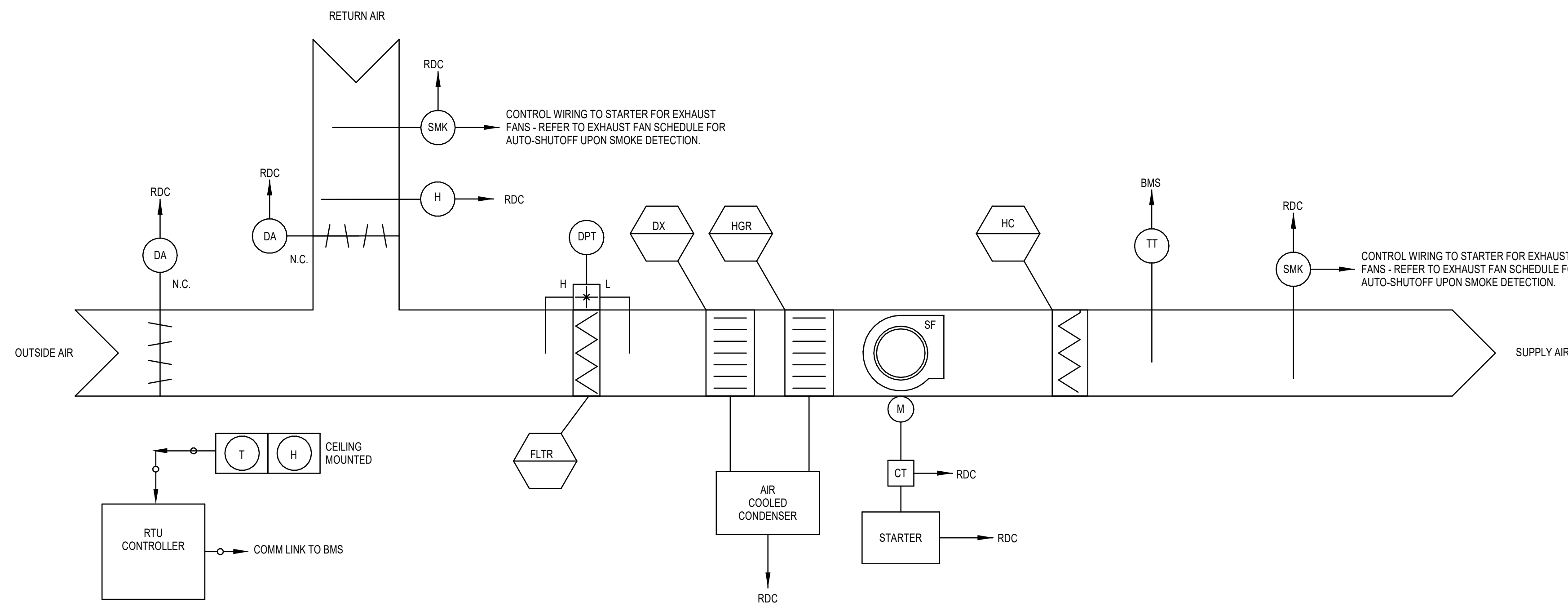
A. **FILTERS:**
THE RDC SHALL MONITOR THE STATIC PRESSURE DROP ACROSS THE FILTER BANK AND ALARM ON HIGH STATIC PRESSURE DROP. A DIFFERENTIAL PRESSURE SWITCH ACROSS THE FILTER SHALL INITIATE FILTER ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER REACHES THE SETPOINT OF 1.0 INCHES W.C. (ADJUSTABLE).

B. **FIRE/SMOKE CONTROL:**
UPON ACTIVATION OF A DUCT SMOKE DETECTOR, THE BMS SHALL RECEIVE AN ALARM.

C. **GENERAL ALARM:**
ANY TROUBLE ALARM OR FAULT WITHIN THE UNIT ONBOARD CONTROLS WILL GENERATE A GENERAL ALARM TO THE BMS.

D. **ACTIVATION OF ANSUL SYSTEM SHALL SHUT DOWN ALL RTU/MAU.**

A2 MAKEUP AIR UNIT CONTROLS DIAGRAM
N.T.S.



SEQUENCE OF OPERATION

OPERATING CONDITION - CONTINUOUS 24/7

THE PILOT RTU CONTROLLER (RDC) SHALL PERFORM ALL CONTROL, SAFETY AND INTERLOCKS AS DESCRIBED IN THE SEQUENCE OF OPERATION. THE BMS SHALL MONITOR THE RTU DDC CONTROLLER VIA BMS PROTOCOL COMMUNICATION AND/OR COMBINATION OF DISCRETE INPUT/OUTPUT POINTS. THE BMS SHALL OPERATE THE UNIT CONTINUOUS 24/7. WHEN THE UNIT IS DE-ENERGIZED BY THE BMS, THE FAN SHALL SHUT DOWN, THE OA DAMPER SHALL CLOSE. THE REFRIGERATION SYSTEM SHALL ALSO BE DE-ENERGIZED AND THE HEATING SYSTEM LOCKED OUT OF HEATING MODE.

THE BMS SHALL BE PROGRAMMED SO THAT THE HEATING AND COOLING SYSTEMS SHALL NEVER OPERATE SIMULTANEOUSLY.

TEMPERATURE CONTROL

OCCUPIED MODE - THE BMS WILL MAINTAIN THE FOLLOWING SPACE TEMPERATURE SETPOINTS:

- COOLING: 75°F, 55% RH (ADJUSTABLE)
- HEATING: 70°F (ADJUSTABLE)

SETBACK MODE - THE BMS WILL MAINTAIN THE FOLLOWING SPACE TEMPERATURE SETPOINTS:

- COOLING: 85°F (ADJUSTABLE) (ADJUST TO 80°F 1-HR PRIOR TO OCCUPANCY)
- HEATING: 60°F (ADJUSTABLE) (ADJUST TO 65°F 1-HR PRIOR TO OCCUPANCY)

THERE SHALL BE A DEADBAND OF +/- 5°F ON ALL TEMPERATURE CONTROL.

HUMIDITY CONTROL

IF THE RELATIVE HUMIDITY OF THE RETURN AIR EXCEEDS 60% (ADJUSTABLE) AND THERE IS NO CALL FOR COOLING IN THE SPACE, THE RDC SHALL ENABLE DEHUMIDIFICATION MODE OF THE RTU BASED ON ITS OWN INTERNAL CONTROLS UTILIZING HOT GAS REHEAT.

SEQUENCE OF OPERATION (CONTINUED)

ECONOMIZER OPERATION

BASED ON THE RTU INTERNAL DIFFERENTIAL ENTHALPY CONTROLS, THE RDC SHALL VARY THE OUTSIDE AIR DAMPER POSITION, BASED ON CALL FOR COOLING IN THE SPACE. THERE SHALL BE ONE FAN SPEED. THE RDC SHALL LOAD AND UNLOAD COMPRESSORS BASED ON THE UNIT INTERNAL CONTROLS TO CONDITION OR DEHUMIDIFY THE SPACE AS NEEDED.

UNIT SHUTDOWN

UNIT SHALL BE DE-ENERGIZED UPON DETECTION OF SMOKE IN UNIT OR BUILDING FIRE ALARM.

ALARMS

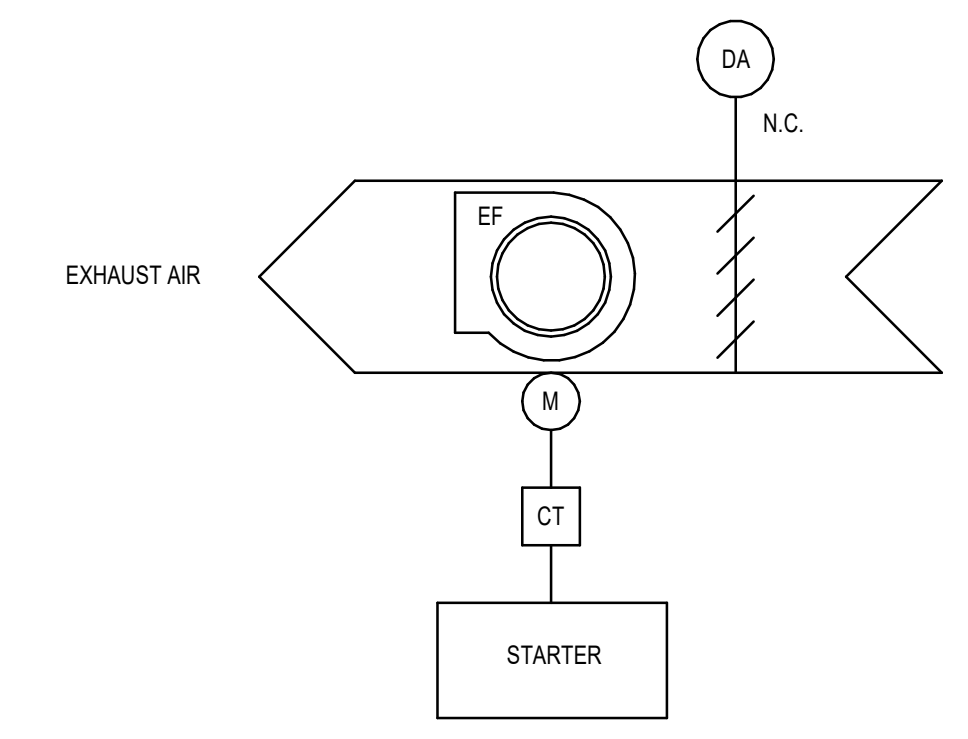
THE BMS SHALL MONITOR ALL SAFETIES ON THE REFRIGERATION SYSTEM AND THE HEATING SYSTEM THROUGH THE RDC COMMUNICATION PROTOCOL. ALL ABNORMAL CONDITIONS SHALL BE ALARMED AT THE BMS.

A. **FILTERS:**
THE RDC SHALL MONITOR THE STATIC PRESSURE DROP ACROSS THE FILTER BANK AND ALARM ON HIGH STATIC PRESSURE DROP. A DIFFERENTIAL PRESSURE SWITCH ACROSS THE FILTER SHALL INITIATE FILTER ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER REACHES THE SETPOINT OF 1.0 INCHES W.C. (ADJUSTABLE).

B. **FIRE/SMOKE CONTROL:**
UPON ACTIVATION OF A DUCT SMOKE DETECTOR, THE BMS SHALL RECEIVE AN ALARM.

C. **GENERAL ALARM:**
ANY TROUBLE ALARM OR FAULT WITHIN THE UNIT ONBOARD CONTROLS WILL GENERATE A GENERAL ALARM TO THE BMS.

A1 PACKAGED ROOFTOP UNIT CONTROLS DIAGRAM
N.T.S.



B2 RESTROOM EXHAUST FAN CONTROL DIAGRAM
N.T.S.

SEQUENCE OF OPERATION

OPERATING CONDITIONS:

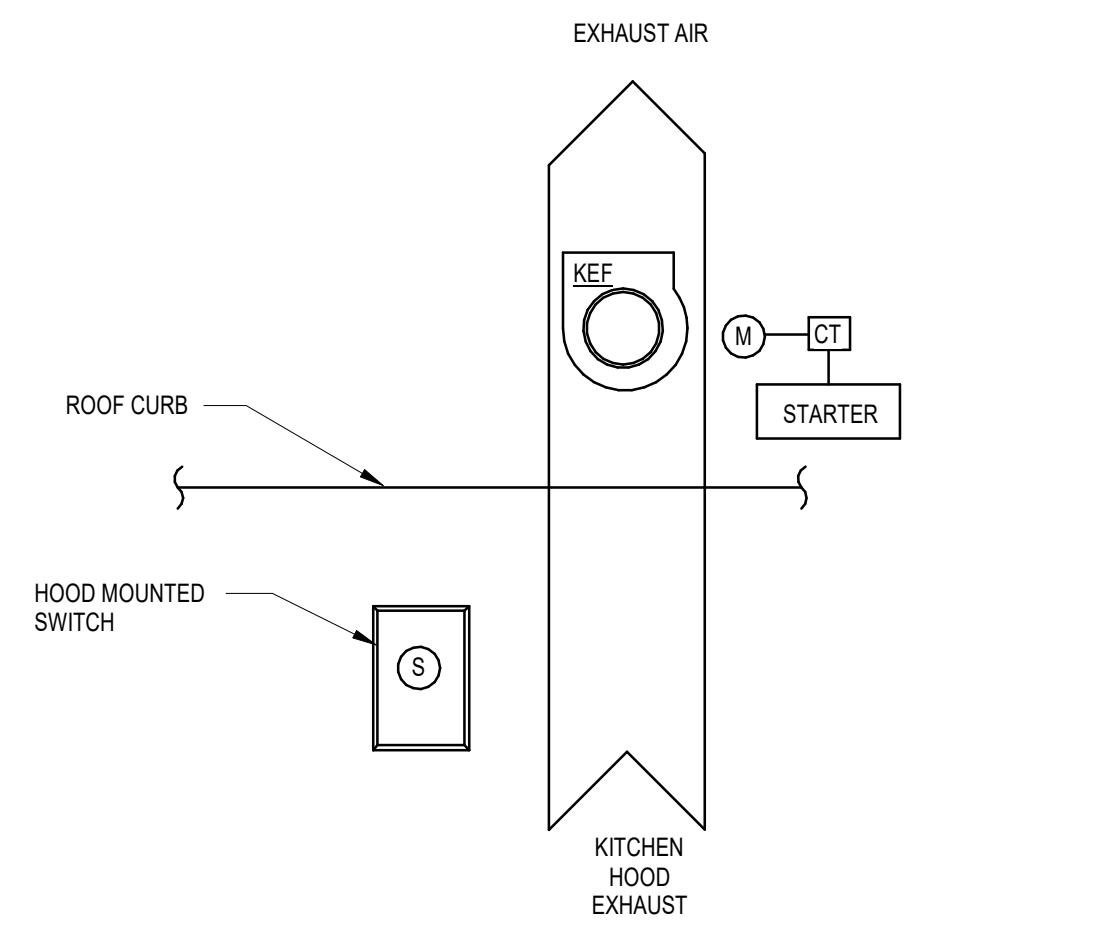
THE GENERAL EXHAUST FAN SHALL BE INTERLOCKED WITH THE RESTROOM OCCUPANCY SENSORS. THE EXHAUST FAN SHUT OFF DAMPER SHALL BE INTERLOCKED WITH THE EXHAUST FAN TO OPEN WHEN THE FAN IS ENERGIZED AND CLOSE WHEN THE FAN IS DE-ENERGIZED.

ALARMS:

ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. FAN FAILURE: FAN COMMANDED ON BUT STATUS IS OFF.
2. FAN IN HAND: FAN COMMANDED OFF BUT STATUS IS ON.
3. FAN BELT FAILURE: MOTOR AMPERAGE READS ZERO AS MEASURED BY CURRENT TRANSDUCER.

B2 RESTROOM EXHAUST FAN CONTROL DIAGRAM
N.T.S.



B1 KITCHEN HOOD EXHAUST FAN CONTROL DIAGRAM
N.T.S.

SEQUENCE OF OPERATION

OPERATING CONDITIONS - CONTINUOUS 24/7:

THE KITCHEN HOOD EXHAUST FAN SHALL RUN CONTINUOUSLY WHEN THE KITCHEN HOOD MOUNTED SWITCH IS ON.

INTEGRATED ANSUL FIRE SUPPRESSION SYSTEM

UPON ACTIVATION OF THE INTEGRATED ANSUL FIRE SUPPRESSION SYSTEM DURING NORMAL KITCHEN OPERATION, THE KITCHEN HOOD EXHAUST FAN SHALL REMAIN ENERGIZED.

FIRE/SMOKE CONTROL:

UPON SENSING DUCT SMOKE, THE KITCHEN EXHAUST FAN SHALL BE CYCLED OFF. FAN STATUS SHALL BE REPORTED TO THE BMS.

B1 KITCHEN HOOD EXHAUST FAN CONTROL DIAGRAM
N.T.S.

PREPARED FOR:



Date	Description
------	-------------



Seal / Signature

WHATABURGER HICKORY, NC

Project Name

WHATABURGER

Date: 06/14/2024

Project Number

2302500

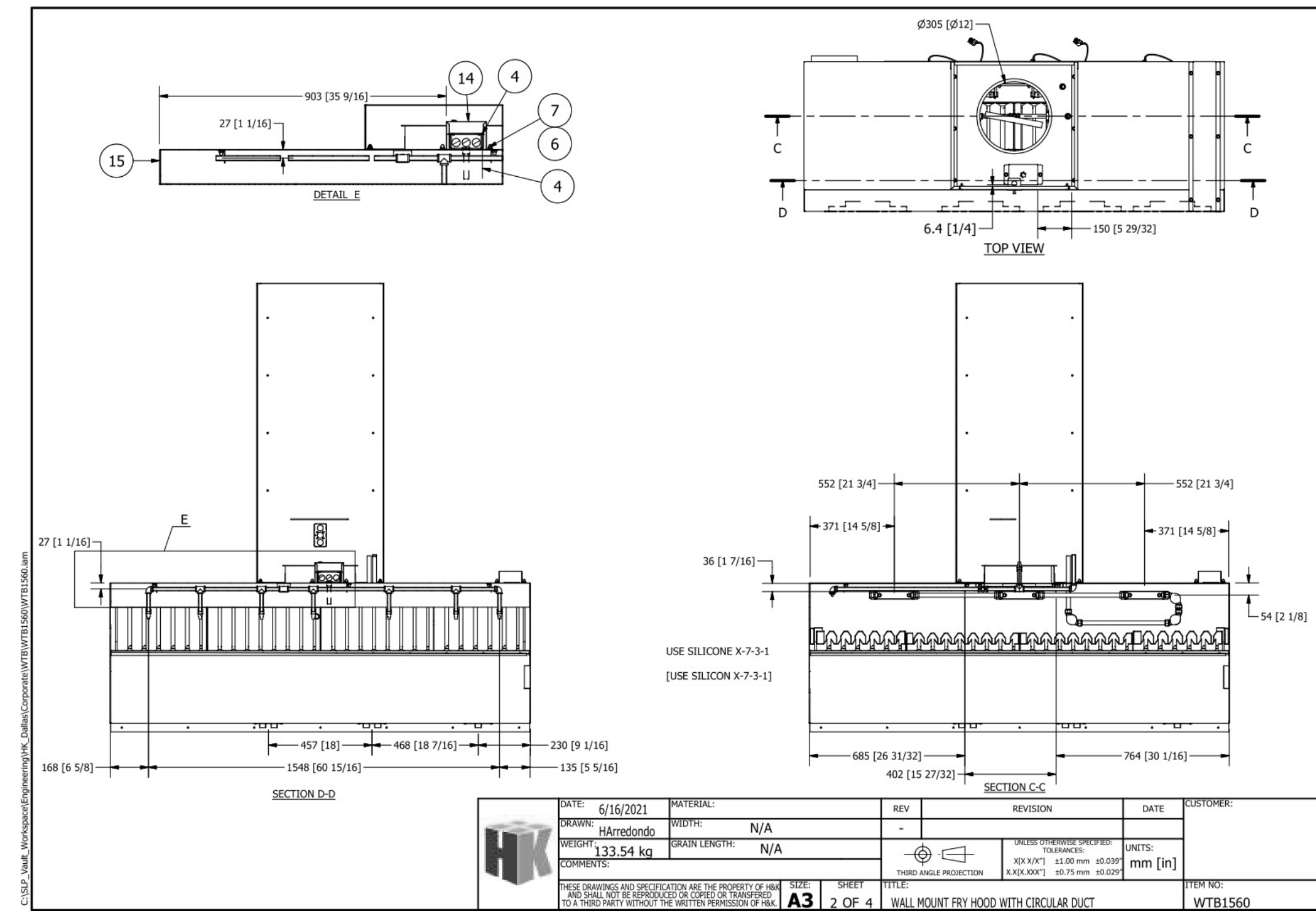
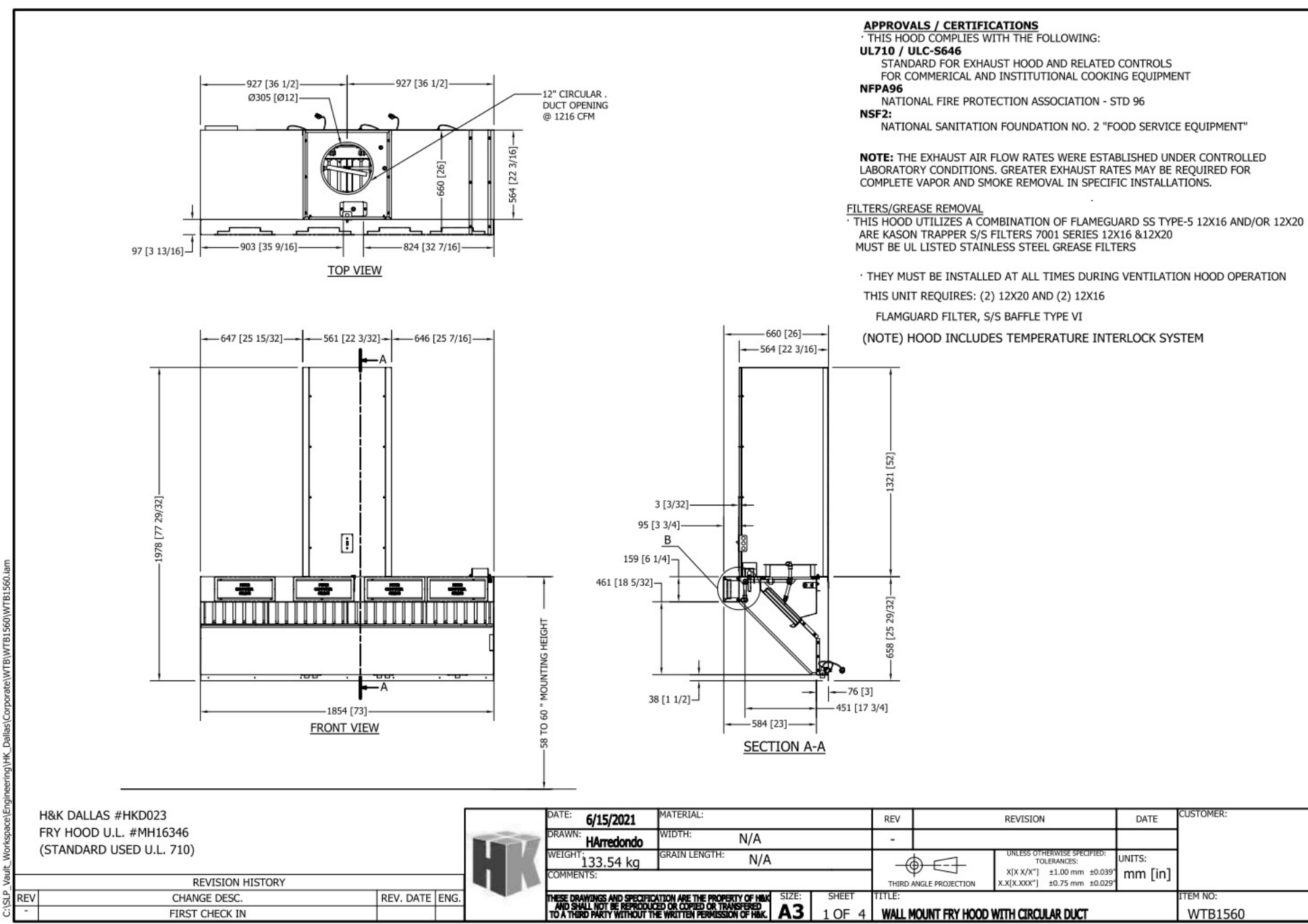
Description

MECHANICAL CONTROLS

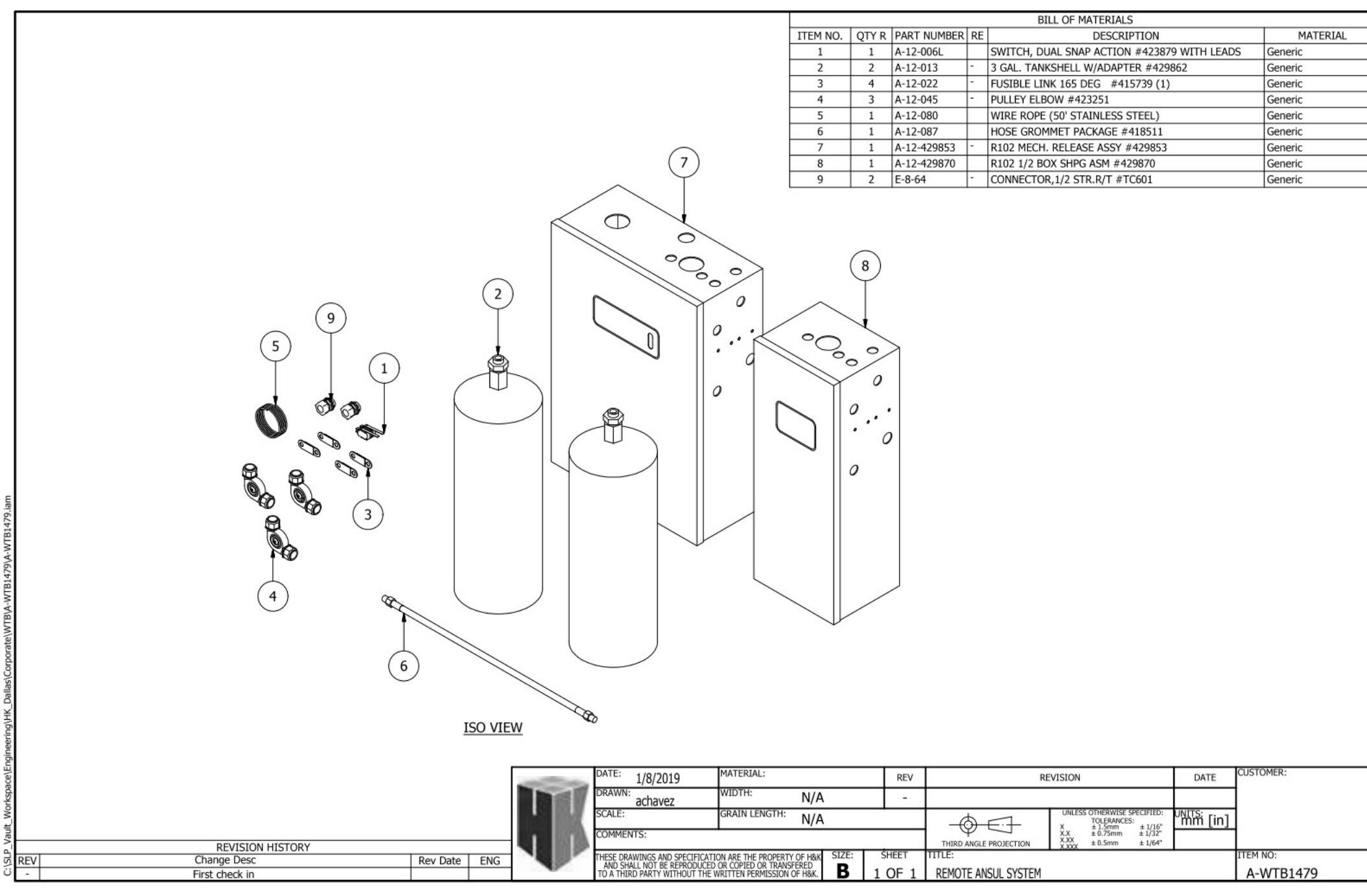
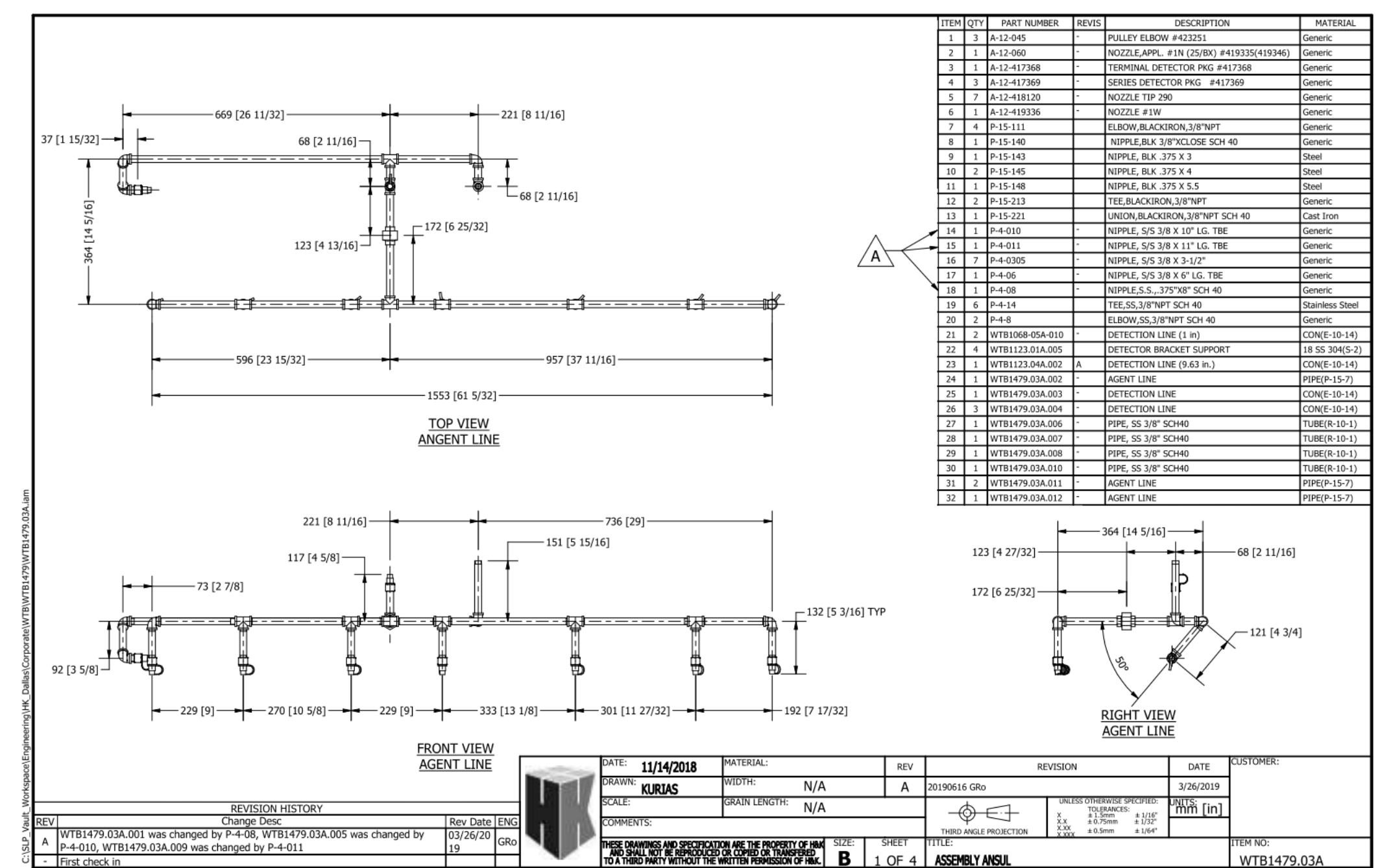
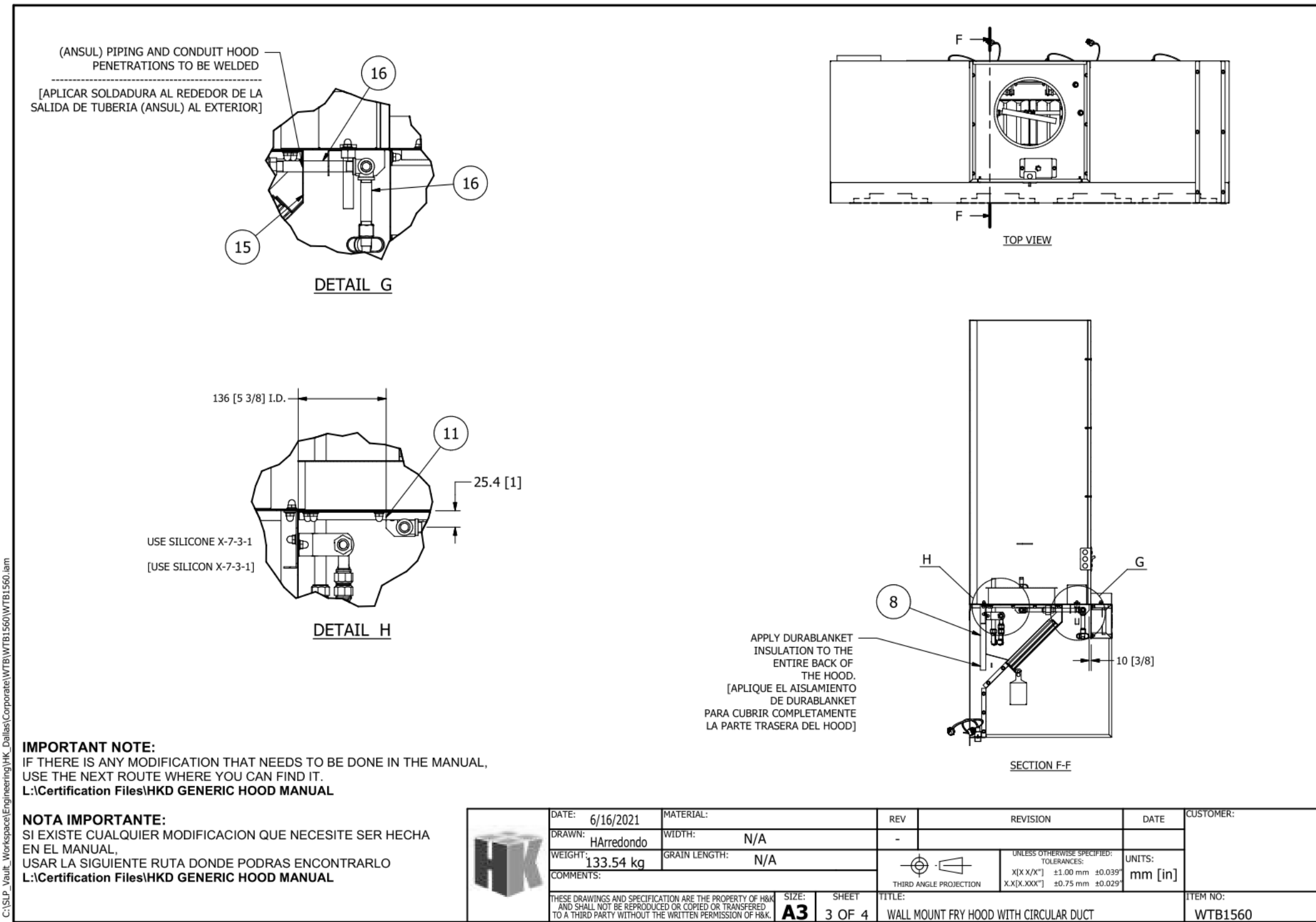
Scale

NOT TO SCALE

M7.1



FOR REFERENCE ONLY
 THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AUTOMATIC FIRE PROTECTION SYSTEM FOR THE RANGE HOODS APPROVED EQUAL TO ANSUL SYSTEM. COMPLETE HOOD AND ANSUL SYSTEM INFORMATION TO BE SUBMITTED BY OTHERS IN FUTURE SUBMISSION.



Date	Description
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Seal / Signature

WHATABURGER HICKORY, NC

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Description

HOOD DRAWINGS

Scale

NOT TO SCALE

M8.1

TOP VIEW
1105 [43 1/2]
1045 [41 5/32]
1413 [55 5/8]
292 [11 1/2]

FRONT VIEW
689 [27 1/8]
760 [29 29/32]
761 [29 15/16]
34 [1 11/32]
2124 [83 5/8] L.D.
2204 [86 25/32]

RIGHT VIEW
616 [24 1/4]
762 [30 1/32]
912 [36]
596 [23 15/32]
1343 [52 7/8]
152 [6]
38 [1 1/2]

ISOMETRIC BACK VIEW

NOTE: 275 CFM'S PER LINEAR FOOT INCLUDES BOTH SIDES MINIMUM REQ'D. 1994 CFM'S

APPROVALS / CERTIFICATIONS
THIS HOOD COMPLIES WITH THE FOLLOWING:
UL710 / ULC-S646
STANDARD FOR EXHAUST HOOD AND RELATED CONTROLS FOR COMMERCIAL AND INSTITUTIONAL COOKING EQUIPMENT
NFPA96
NATIONAL FIRE PROTECTION ASSOCIATION - STD 96
NSF2:
NATIONAL SANITATION FOUNDATION NO. 2 "FOOD SERVICE EQUIPMENT"

NOTE: THE EXHAUST AIR FLOW RATES WERE ESTABLISHED UNDER CONTROLLED LABORATORY CONDITIONS. GREATER EXHAUST RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND SMOKE REMOVAL IN SPECIFIC INSTALLATIONS.

FILTERS/GREASE REMOVAL
THIS HOOD UTILIZES A COMBINATION OF FLAMEGUARD SS TYPE-5 12X16 AND/OR 12X20 ARE KASON TRAPPER S/S FILTERS 7001 SERIES 12X16 & 12X20 MUST BE UL LISTED STAINLESS STEEL GREASE FILTERS
THEY MUST BE INSTALLED AT ALL TIMES DURING VENTILATION HOOD OPERATION
THIS UNIT REQUIRES: FILTERS (8)
FLAMEGUARD FILTER, S/S BAFFLE TYPE VI
(8) 12X20
(NOTE) HOOD INCLUDES TEMPERATURE INTERLOCK SYSTEM

DATE:	8/11/2022	MATERIAL:		REV:	B	REVISION:	20230019 FR	DATE:	1/10/2023	CUSTOMER:	
DRAWN:	GOVIEDO	WIDTH:	N/A								
WEIGHT:	N/A	GRAIN LENGTH:	N/A								
COMMENTS:	UNLESS OTHERWISE SPECIFIED: TOLERANCES: X.XX (X/16) ±1.00 mm ±0.039" X.XX (X/32) ±0.75 mm ±0.030"										
THIRD ANGLE PROJECTION											
TITLE: 87 DOUBLE SIDED CLAM SHELL GRILL HOOD											
ITEM NO: WTB1603											

metric
ALL DOCUMENTATION RELATED TO THIS UNIT IS RELEASED ON METRIC SYSTEM (TODA LA DOCUMENTACION RELACIONADA CON ESTA UNIDAD ESTA LIBERADA EN SISTEMA METRICO)

DOUBLE SIDE GRILL HOOD SUPPLIED WITH (1) 3.0 GAL TANK

DOUBLE SIDE GRILL HOOD INCLUIDO CON (1) TANQUE DE 3.0 GAL

ISOMETRIC VIEW
1W NOZZLE DUCT
DETECTION LINE LINEA DE DETECCION
LIQUID LINE LINEA DE LIQUIDO
#2120 NOZZLE & #418569 SWIVEL ADAPTOR
#1N NOZZLE PLENUM
#2120 NOZZLE & #418569 SWIVEL ADAPTOR

ISOMETRIC BACK VIEW
#2120 NOZZLE & #418569 SWIVEL ADAPTOR
#1N NOZZLE PLENUM
#2120 NOZZLE & #418569 SWIVEL ADAPTOR

DATE:	8/9/2022	MATERIAL:		REV:	-	REVISION:		DATE:		CUSTOMER:	
DRAWN:	GOVIEDO	WIDTH:	N/A								
WEIGHT:	5.25 kg	GRAIN LENGTH:	N/A								
COMMENTS:	UNLESS OTHERWISE SPECIFIED: TOLERANCES: X.XX (X/16) ±1.00 mm ±0.039" X.XX (X/32) ±0.75 mm ±0.030"										
THIRD ANGLE PROJECTION											
TITLE: ANSUL ASSY											
ITEM NO: WTB1603.5000											

ANSUL BOX FRONT

REMOTE ANSUL SYSTEM

DATE:	6/3/2013	MATERIAL:		SYM:		REVISION:		DATE:		CUSTOMER:	
DRAWN:	D.BOOTE	WIDTH:	N/A								
SCALE:		GRAIN LENGTH:	N/A								
COMMENTS:	UNLESS OTHERWISE SPECIFIED: TOLERANCES: X.XX (X/16) ±1.00 mm ±0.039" X.XX (X/32) ±0.75 mm ±0.030"										
THIRD ANGLE PROJECTION											
TITLE: REMOTE ANSUL SYSTEM											
ITEM NO: A-WTB1263											

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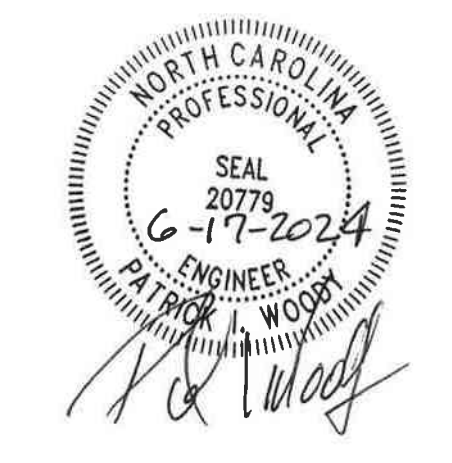
BILL OF MATERIALS					
ITEM NO.	QTY REQD.	PART NUMBER	REV	DESCRIPTION	MATERIAL
1	1	WTB1603.5100	-	LIQUID LINE ASSEMBLY	
2	1	WTB1603.5200	-	DETECTION LINE ASSEMBLY	

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PREPARED FOR:



Date	Description
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Seal / Signature

WHATABURGER HICKORY, NC

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Description

HOOD DRAWINGS

Scale

NOT TO SCALE

M8.2