18/14 🚽

18Ø

RECTANGULAR DUCT SIZE (WIDTH / HEIGHT)

SIDEWALL REGISTER TAP WITH DAMPER

ROUND DUCT SIZE

FLEXIBLE DUCT CONNECTION

**HVAC** 

HVU

**HWR** 

**IPS** 

KW

HEATING/VENTILATING/AIR-CONDITIONING

HEATING AND VENTILATING UNIT

INTERNATIONAL PIPE STANDARD

THERMAL CONDUCTIVITY

HEATING HOT WATER RETURN

HEATING HOT WATER SUPPLY

FREQUENCY INSIDE DIAMETER

IRON PIPE SIZE

KITCHEN HOOD

KILOWATT

WET BULB

WEIGHT

YEAR

(CO2)

(os)

CARBON DIOXIDE SENSOR

OCCUPANCY SENSOR

CONSTRUCTION

ms consultants, inc. engineers, architects, planners 2221 Schrock Road

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## **\( \)** 2 BURGE



460 NE DOUGLAS EE'S SUMMIT, MO

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PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.20012002143 EXP DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01 Client Project No.:

Drawing Title:

SUPPLY AIR STANDARD NON-RADIUS 90° ELBOWS SHALL HAVE TURNING VANES.

AND ARCHITECT.

AIR CONDITIONING LOAD CALCULATIONS BASED ON KANSAS CITY, MISSOURI CLIMATE DATA. ADJUST

UNIT SIZES, AIRFLOW, DUCT SIZES AND AIR DEVICES TO HVAC LOAD CALCULATIONS BASED ON STORE

LOCATION. COORDINATE RTU LOCATIONS, DIMENSIONS, AND WEIGHTS WITH STRUCTURAL ENGINEER

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

BID SET Date: 12/22/2020 Phase: Designed: DCU Drawing No.: Drawn: DCU Checked: KFF

MECHANICAL FLOOR PLAN - LEVEL 1

#### **GENERAL NOTES**

REFER TO M0.1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

- SMOKE DETECTORS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED IN THE SUPPLY AND RETURN SIDES OF RTU. COORDINATE WIRING FOR SHUTDOWN WITH ELECTRICAL SCOPE. MOUNT SMOKE DETECTORS IN ACCESSIBLE LOCATIONS. REFERENCE M6.1 FOR RTU SCHEDULE. ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN RTU AND ACTIVATE THE AUDIBLE AND VISUAL SIGNAL PROVIDED.
- THE EMERSON SITE SUPERVISOR DISPLAY AND CONTROLLER PANEL SHALL BE MOUNTED AND INSTALLED FLUSH IN THE MANAGER'S OFFICE AT 5' AFF TO CENTER.
- PER IECC 2018, PARAGRAPH C408.2.1, A THIRD PARTY SHALL BE HIRED BY THE OWNER AS PART OF THIS PROJECT TO PROVIDE/PERFORM 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 ACTIVITES.
- 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
- 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.
- KITCHEN HOODS, ANSUL FIRE SUPPRESSION SYSTEM AND HOOD CONTROLS SHALL BE OWNER-FURNISHED AND CONTRACTOR-INSTALLED.

#### **KEYNOTES**

- ELECTRIC UNIT HEATER. REFER TO VIEW B2 ON SHEET M5.2.
- SUPPLY AIR DIFFUSER (TYP.), REFER TO VIEW B2 ON SHEET M5.1.
- SUPPLY AIR SLOT DIFFUSER, REFER TO VIEW A3 ON SHEET M5.1.
- 2'X2' LOCKABLE ACCESS DOOR IN HARD CEILING FOR ACCESS TO BATHROOM EXHAUST DAMPERS. RE: ARCHITECTURE.
- 28/20 SUPPLY DUCT UP TO RTU-1.
- 28/20 SUPPLY DUCT UP TO RTU-3/ CONNECT KITCHEN EXHAUST HOOD ABOVE FRYER UP TO KEF-2 WITH 12" DIA. PRE-FABRICATED UL
- 710 LISTED AND LABELED GREASE DUCT. PROVIDE TRANSITIONS AS REQUIRED. CONNECT KITCHEN EXHAUST HOOD ABOVE GRILLS UP TO KEF-1 WITH 16" DIA. PRE-FABRICATED
- UL 710 LISTED AND LABELED GREASE DUCT. PROVIDE TRANSITIONS AS REQUIRED.
- RTU-1\DDC CONTROLLER PANEL\RECESSED MOUNTED IN WALL. RTU-2 DDC CONTROLLER PANEL. RECESSED MOUNTED IN WALL.
- EMERSON SITE SUPERVISOR DISPLAY AND CONTROLLER PANEL. RECESSED MOUNTED IN WALL.
- RTU-3 DDC CONTROLLER PANEL. RECESSED MOUNTED IN WALL.
- 61/15 RETURN AIR DUCT UP TO RTU-1 ON ROOF, REFER TO VIEW A1 ON SHEET M2.1, AND VIEW C4 ON SHEET M5.1.

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PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.20012002143 EXP DATE: 12/31/20

REV	DESCRIPTION	DATE
1	REV-1 Plan Revision	01/27/21

62-40497-01 Project No.: Client Project No.:

Drawing Title:

MECHANICAL FLOOR PLAN -LEVEL 1

Designed: DCU Drawing No.: Drawn: DCU

Checked: KFF

A1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

### **GENERAL NOTES**

A. REFER TO M0.1 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

SMOKE DETECTORS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED IN THE SUPPLY AND RETURN SIDES OF ROOFTOP UNIT. COORDINATE WIRING FOR SHUTDOWN WITH ELECTRICAL SCOPE. MOUNT SMOKE DETECTORS IN ACCESSIBLE LOCATIONS. REFERENCE M6.1 FOR RTU SCHEDULE. ACTIVATION OF SMOKE DETECTORS SHALL SHUT DOWN RTU AND ACTIVATE THE AUDIBLE AND VISUAL SIGNAL PROVIDED.

THE EMERSON SITE SUPERVISOR DISPLAY AND CONTROLLER PANEL SHALL BE MOUNTED AND INSTALLED FLUSH IN THE MANAGER'S OFFICE AT 5' AFF TO CENTER.

PER IECC 2018, PARAGRAPH C408.2.1, A THIRD PARTY SHALL BE HIRED BY THE OWNER AS PART OF THIS PROJECT TO PROVIDE/PERFORM 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 ACTIVITES.
- 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.
- KITCHEN HOODS, ANSUL FIRE SUPPRESSION SYSTEM AND HOOD CONTROLS SHALL BE OWNER-FURNISHED AND CONTRACTOR-INSTALLED.
- MAINTAIN A MINIMUM CLEARANCE OF 10 FEET BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST, FLUES, OR VENTS THROUGH ROOF.

#### **KEYNOTES**

- 1 CENTRIFUGAL UPBLAST GREASE HOOD EXHAUST FAN MOUNTED ON MANUFACTURER PROVIDED ROOF CURB, REFER TO VIEW A2 ON SHEET M5.1.
- 2 CENTRIFUGAL DOWNBLAST EXHAUST FAN MOUNTED ON MANUFACTURER PROVIDED ROOF CURB, REFER TO VIEW A1 ON SHEET M5.1.
- ROOF ACCESS HATCH REFER TO ARCHITECTURAL SHEETS.
- 4 KITCHEN FREEZER CONDENSING UNIT MOUNTED ON ROOFTOP; PROVIDED BY OWNER, COORDINATE EXACT LOCATION ON SITE AND ROUTE REFERIGERATION PIPING THROUGH ROOF PENETRATION (BY OTHERS).
- KITCHEN REFRIGERATOR CONDENSING UNIT MOUNTED ON ROOFTOP; PROVIDED BY OWNER, COORDINATE EXACT LOCATION ON SITE AND ROUTE REFERIGERATION PIPING THROUGH ROOF PENETRATION (BY OTHERS).
- REFRIGERATION PIPING ROOF PENETRATION (BY OTHERS).
- 7 KITCHEN ICEMAKER CONDENSING UNIT MOUNTED ON ROOFTOP, PROVIDED BY OWNER. COORDINATE EXACT LOCATION ON SITE AND ROUTE REFRIGERANT PIPING THROUGH ROOF PENETRATION (BY OTHERS).
- 8 KITCHEN MULTIPLEX CONDENSING UNIT MOUNTED ON ROOFTOP, PROVIDED BY OWNER. COORDINATE EXACT LOCATION ON SITE AND ROUTE REFRIGERANT PIPING THROUGH ROOF PENETRATION (BY OTHERS).
- 9 ROUTE CONDENSATE LINE DOWN THROUGH ROOF. REFER TO SHEET M1.1 FOR CONTINUATION.



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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No.20012002143
EXP DATE: 12/31/20

DESCRIPTION	DATE
	DESCRIPTION

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

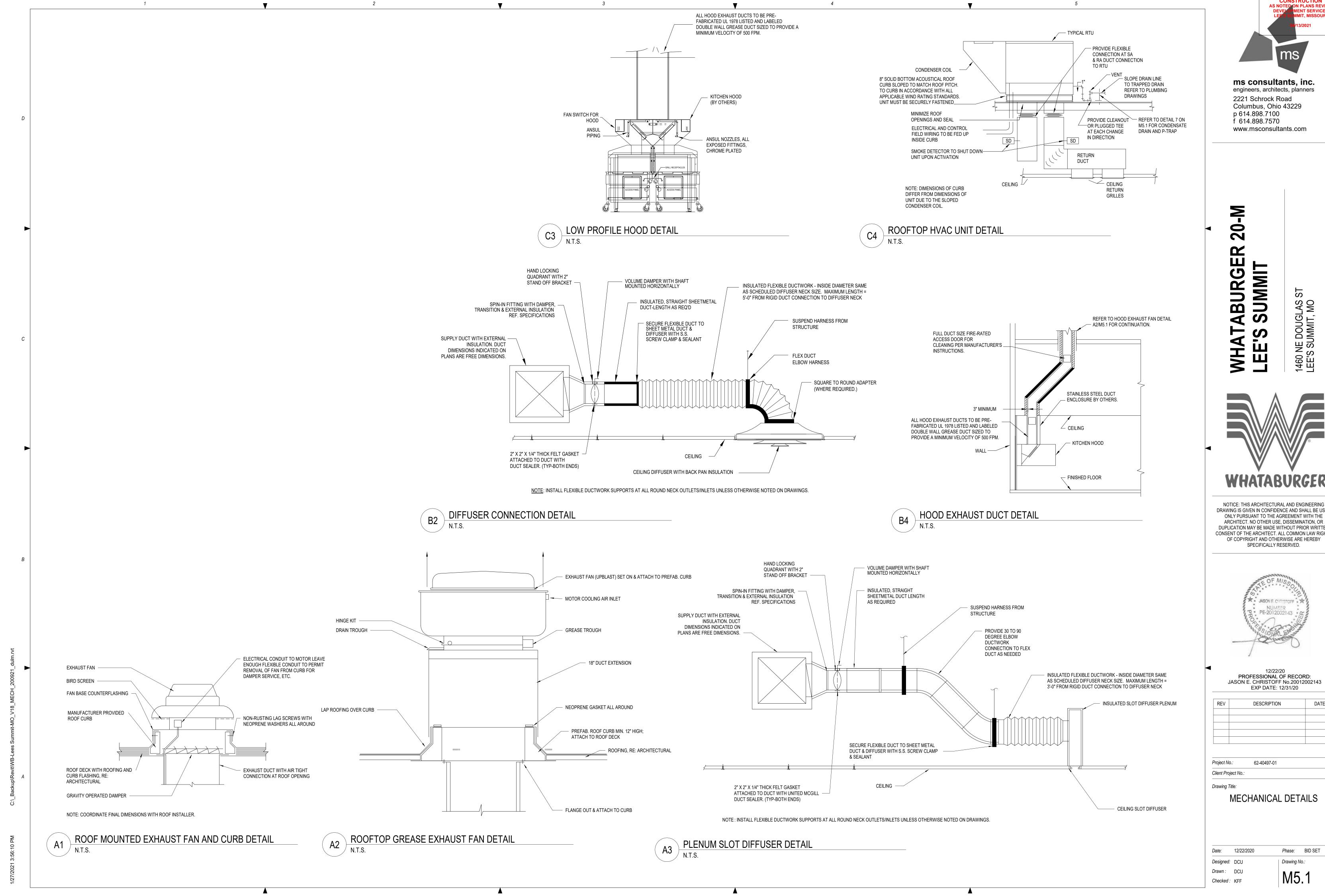
MECHANICAL ROOF PLAN

Date: 12/22/2020 Phase: BID SET

Designed: DCU Drawing No.:

Drawn: DCU
Checked: KFF

M2.1

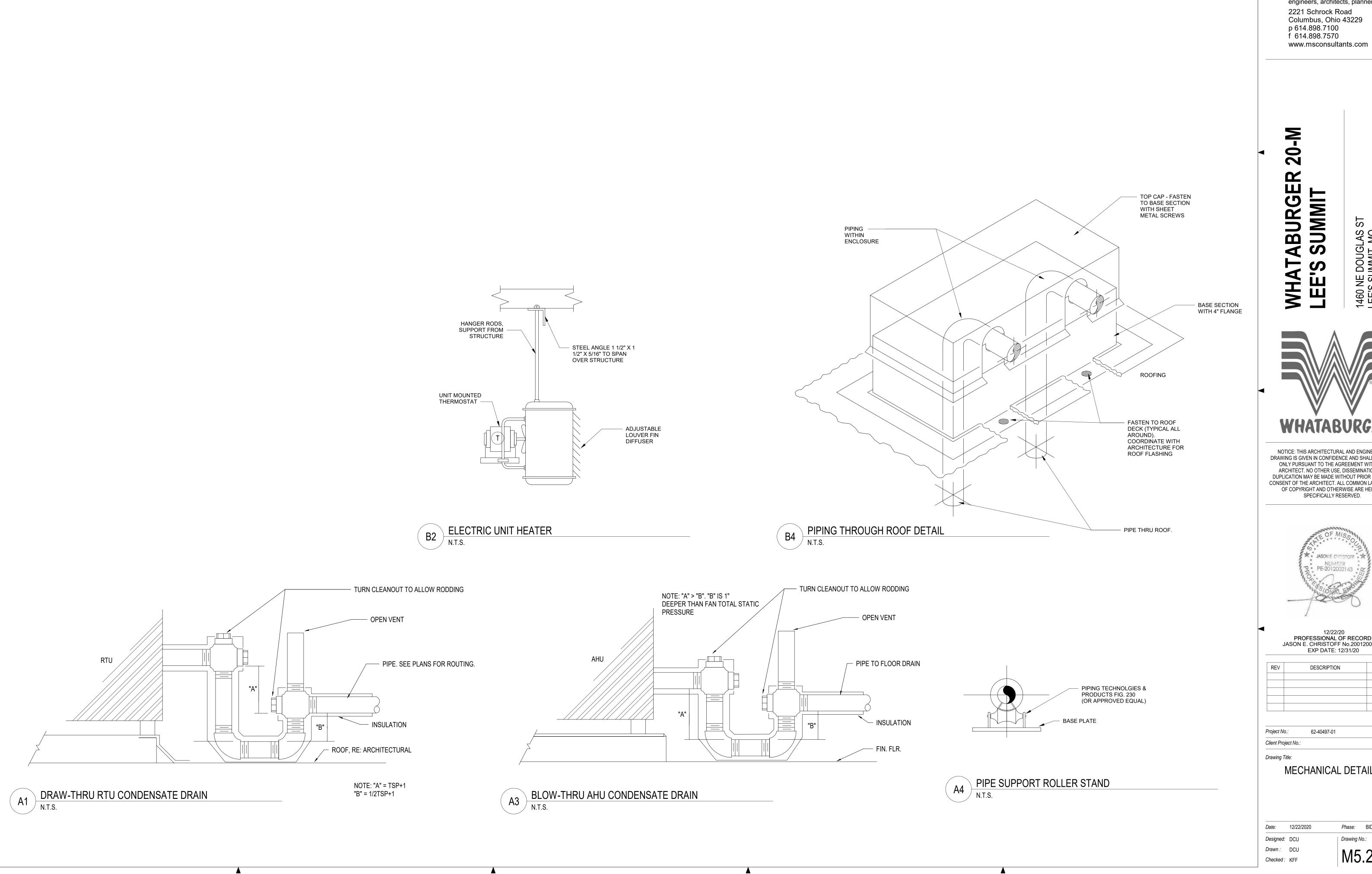


CONSTRUCTION
AS NOTED ON PLANS REVIEW

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		REV	DESCRIPTION	DATE
- 1	1			

Date:	12/22/2020	Phase:	BID SET
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RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW

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12/22/20 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.20012002143

REV	DESCRIPTION	DATE

MECHANICAL DETAILS

Date:	12/22/2020	Phase: BID SET
Designed:	DCU	Drawing No.:
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	ROOFTOP UNIT SCHEDULE																										
		FAN								COOLING				HEATING													
																				TOTAL CAPACITY							
TAG	SERVES	MANUFACTURER	MODEL	REFRIGERANT	AIR FLOW	AIR FLOW VENTILATION	ON FAN TYPE	MOTOR HP	QUANTITY FANS	DRIVE TYPE	RPM	ESP (IN W.C.)	TSP (IN W.C.)	TOTAL CAPACITY (MBH)	CAPACITY SENSIBLE (MBH)	EAT DB	EAT WB	LAT DB	LAT WB	(KW)	EAT (°F)	MAX LAT (°F)	VOLTAGE	PHASE	MCA	WEIGHT (LB)	NOTES
RTU-1	DINING PERIMETER	LENNOX	LCH156H4M	R-410A	4000 CFM	1300 CFM	BELT	3	1	BELT	998	1.00	1.51	154	150	81.6	76.7	56.9	56.3	60	-1	95	208 V	3	139	2056	1,2,3,4,5,6,7,8,9
RTU-2	DINING INTERIOR	LENNOX	LCH156H4M	R-410A	4000 CFM	1300 CFM	BELT	3	1	BELT	998	1.00	1.51	154	150	81.6	76.7	56.9	56.3	60	-1	95	208 V	3	139	2056	1,2,3,4,5,6,7,8,9
RTU-3	KITCHEN	LENNOX	LCH240H4M	R-410A	6000 CFM	1500 CFM	BELT	5	1	BELT	895	1.00	1.15	235	146	81.6	76.7	53.4	54.1	90	-1	95	208 V	3	209	2446	1,2,3,4,5,6,7,8,9

1. PROVIDE WITH PREMIUM EFFICIENCY MOTORS IN ACCORDANCE WITH NEMA MG-1.
2. PROVIDE WITH SUPPLY AND RETURN SMOKE DETECTORS TO SHUT DOWN UNIT UPON SMOKE DETECTION.
3. PROVIDE WITH NETWORK CARD FOR INTERFACE WITH BUILDING MANAGEMENT SYSTEM.
4. SIZE AND SELECT ROOFTOP UNITS BASED ON 0.4% DEHUMIDIFICATION DESIGN DAY CONDITIONS OF 86.7°F DB, 76.5°F DEWPOINT.
5. PROVIDE HOT GAS REHEAT.

6. PROVIDE VARIABLE SPEED MOTOR.
7. PROVIDE MODULATING OUTSIDE AIR DAMPER.
8. PROVIDE ULTRA LOW LEAKAGE ECONOMIZER WITH BAROMETRIC RELIEF DAMPER, AND FAULT DETECTION AND DIAGNOSTIC.
9. PROVIDE FACTORY MOUNTED AND WIRED CONDENSATE OVERFLOW SWITCH.

	EXHAUST FAN SCHEDULE													
TAG	TYPE	MANUFACTURER	MODEL	AIR FLOW	TSP (IN W.C.)	RPM	BHP	HP	DRIVE TYPE	VOLTAGE	PHASE	WEIGHT (LBS.)	NOTES	
EF-1	ROOF-MOUNTED CENTRIFUGAL DOWNBLAST	GREENHECK	G-098-VG	300 CFM	0.60	1257	0.07	0.07	DIRECT	120	1	38	1,2	
KEF-1	ROOF-MOUNTED CENTRIFUGAL UPBLAST	GREENHECK	CUBE-161HP-10	1913 CFM	0.75	1356	0.57	0.75	BELT	208	1	81	2,3,4	
KEF-2	ROOF-MOUNTED CENTRIFUGAL UPBLAST	GREENHECK	CUBE-121	1216 CFM	0.75	1418	0.30	0.33	BELT	208	1	64	2,3,4	

PROVIDE INSULATED 12" ROOF CURB.
 PROVIDE WITH INTEGRAL DISCONNECT SWITCH.

3. PROVIDE GREASE BOX. 4. PROVIDE INSULATED AND VENTED 18" ROOF CURB.

	AIR DEVICE SCHEDULE													
TAG	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE (IN.)	MAX NC	PATTERN	MOUNTING	SLOT LENGTH	SLOT WIDTH	SLOT QTY	SYSTEM CLASSIFICATION	COMMENTS		
A3	TITUS	TMS	24 X 24	6	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1		
A4	TITUS	TMS	24 X 24	8	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1		
A5	TITUS	TMS	24 X 24	10	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1		
A6	TITUS	TMS	24 X 24	12	30	4-WAY	LAY-IN	-	-	-	SUPPLY AIR	1		
В3	TITUS	TMS	24 X 24	6	30	4-WAY	FLANGE	-	-	-	SUPPLY AIR	1,2		
C8	TITUS	50F	24 X 24	18 X 18	30	4-WAY	LAY-IN	-	-	-	RETURN AIR			
F1	TITUS	50F	12 X 12	6 X 6	30	4-WAY	FLANGE	-	-	-	EXHAUST AIR	2		
H1	TITUS	TBDI-30	24 X 3-1/2	12	30	2-WAY	FLANGE	48	3/4	2	SUPPLY AIR	3		
H9	TITUS	TBDI-30	60 X 3-1/2	8	30	2-WAY	FLANGE	60	3/4	2	SUPPLY AIR	3		
H10	TITUS	TBDI-80	60 X 7-1/2	12	30	2-WAY	FLANGE	60	1-1/2	3	SUPPLY AIR	3		
L1	TITUS	FL-15-JT	SEE PLANS		30	1-WAY	FLANGE	CONTINUOUS	1-1/2	1		4		
P1	TITUS	FBPI	48 X 3-1/2	8	30	-	FLANGE	60	-	-	SUPPLY AIR	3		
P3	TITUS	FBPI	60 X 3-1/2	8	30	-	FLANGE	60	-	-	SUPPLY AIR	3		

NOTES:
1. PROVIDE BACKPAN INSULATION.

2. PROVIDE PLASTER FRAME FOR MOUNTING IN GYP. CEILING.

4. CONTINUOUS LINEAR SLOT DIFFUSER TO BE INSTALLED IN GYP. CEILING. PROVIDE INSULATED SUPPLY AIR PLENUMS AS SCHEDULED FOR A COMPLETE SYSTEM.

	ELECTRIC UNIT HEATER SCHEDULE						
	TAG	MANUFACTURER	MODEL	HEATING TOTAL CAPACITY (BTU/HR.)	VOLTAGE	PHASE	WEIGHT (LB.)
[	UH-1	REZNOR	EGW	5118	208 V	1	20

## **AIR BALANCE AND VENTILATION CALCULATION:**

TOTAL OUTSIDE AIR INTAKE = 4100 CFM

TOTAL GREASE HOOD EXHAUST = 3129 CFM TOTAL RESTROOM EXHAUST = 300 CFM

OUTSIDE AIRFLOW - (GREASE HOOD EXHAUST AIRFLOW + RESTROOM EXHAUST AIRFLOW) = NET POSITIVE AIRFLOW

4100 CFM - (3129 + 300) = 671 CFM

ASHRAE 62.1 VENTILATION AIRFLOW REQUIRED = 1457 CFM IMC 2018 VENTILATION AIRFLOW REQUIRED = 1457 CFM



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12/22/20 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No.20012002143 EXP DATE: 12/31/20

REV DESCRIPTION		DATE	

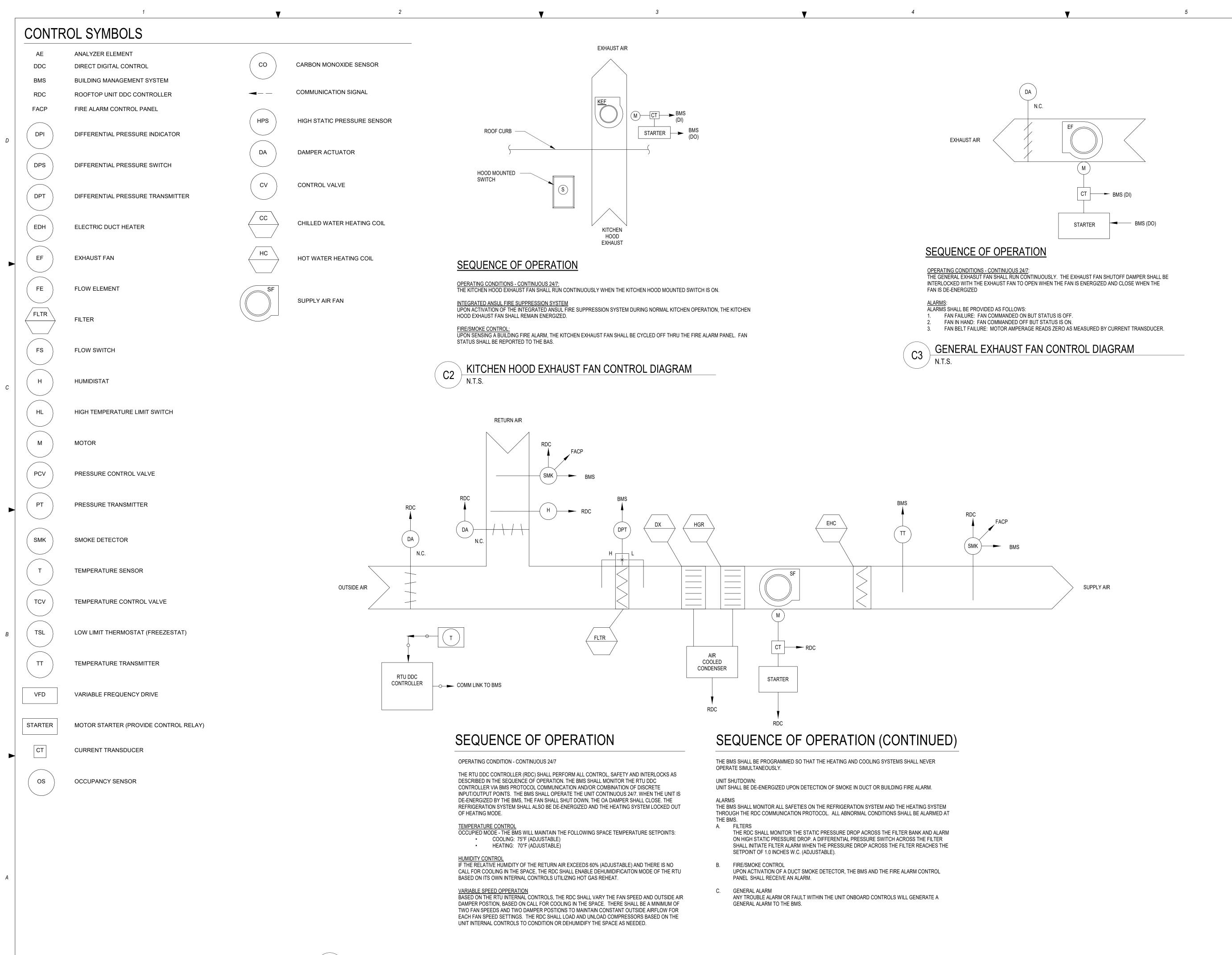
62-40497-01 Project No.: Client Project No.:

Drawing Title:

MECHANICAL SCHEDULES

Date:	12/22/2020	Phase:	BID SET
Designed:	DCU	Drawing No	). <i>:</i>
Drawn :	DCU	140	1
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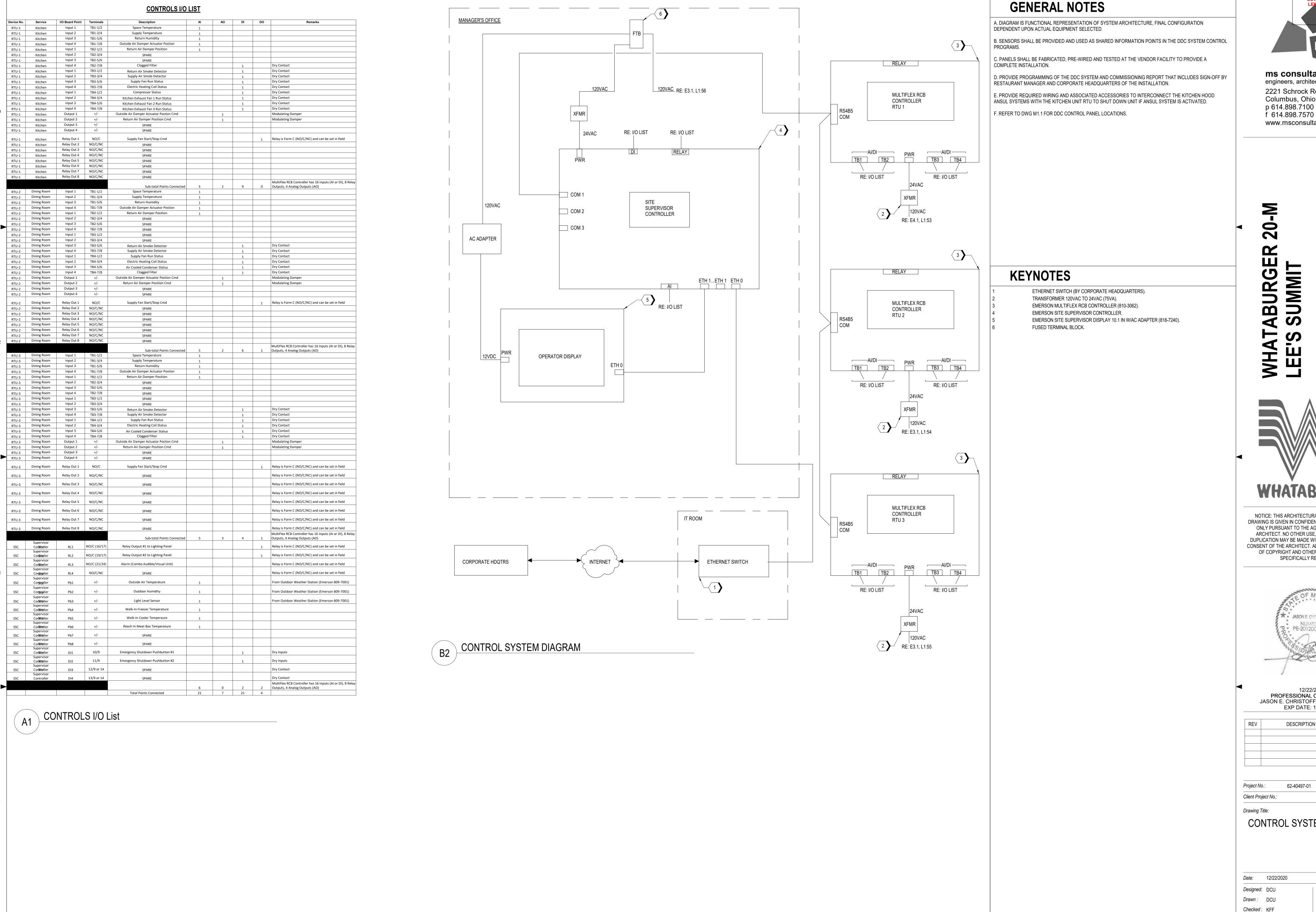
Drawing Title:

MECHANICAL CONTROLS

Phase: BID SET 12/22/2020 Designed: DCU Drawing No.:

Drawn: DCU Checked: KFF

PACKAGED ROOFTOP UNIT CONTROLS DIAGRAM



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REV	DESCRIPTION	DATE

62-40497-01 Client Project No.:

**CONTROL SYSTEM DIAGRAM** 

Phase: BID SET 12/22/2020 Designed: DCU Drawing No.: Drawn: DCU