MECHANICAL LEGEND - 18x14 + RECTANGULAR DUCT - 60 -ROUND METAL DUCT + 60 + FLEXIBLE ROUND DUCT ELBOW WITH TURNING VANES VOLUME DAMPER SUPPLY TAP WITH VOLUME DAMPER SUPPLY TAP SUPPLY DIFFUSER/GRILLE OR RISER RETURN REGISTER/GRILLE OR RISER CEILING EXHAUST FAN T

T-STAT

CONNECT TO EXISTING

---- EXISTING EQUIPMENT/DUCTWORK

EXISTING DUCTWORK/GRILLE TO BE REMOVED

HVAC GENERAL NOTES

1.	THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND
	EQUIPMENT IN STRICT ACCORDANCE WITH THE 2018 NORTH CAROLINA MECHANICAL CODE, ALL STATE AND LOCAL CODES AND STANDARDS, AND PER
	MANUFACTURER'S DIRECTIONS.

- 2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- 5. DO NOT SCALE DRAWINGS FOR MEASUREMENTS.

THE CEILING OR ITS SUPPORT SYSTEM.

- 6. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
- 7. ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER (COLOR TO MATCH EXTERIOR).
- 8. SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER OR SEALANT MATERIAL APPROVED BY LOCAL CODE. TO BE INSTALLED PER MFG. INSTRUCTIONS.
- 9. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM
- 10. LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).
- II. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
- 12. ALL SUPPLY AND RETURN DUCTS SHALL BE INSULATED AS FOLLOWS:

CONDITIONED SPACES R-6 MINIMUM NON-CONDITIONED SPACES R-8 MINIMUM

- 13. ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST LOCATIONS.
- 14. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- 15. EXISTING HVAC EQUIPMENT HAS BEEN ASSUMED TO BE IN GOOD WORKING ORDER FOR BASIS OF DESIGN. MC TO TEST AND VERIFY PROPER FUNCTION OF EQUIPMENT AND NOTIFY OWNER/ENGINEER OF ANY MALFUNCTIONING
- 16. MC SHALL PREPARE ALL EXPOSED DUCT, GRILLES, PIPING, AND UNITS FOR PAINTING. GC WILL BE RESPONSIBLE FOR PAINTING.
- 17. MC SHALL CONSULT OWNER OR OWNER'S REPRESENTATIVE WITH REGARD TO ALL DEMO/REMOVED EQUIPMENT FOR DISPOSAL OR RESALE.

		Н	OOD 9	SCHEE	DULE			
UNIT DESIG.	LOCATION	MANUFACTURER \$ MODEL #	LENGTH (IN)	EXHAUST CFM	SUPPLY CFM	EXHAUST RISER (IN)	SUPPLY RISER (IN)	NOTES
H-1	FRYER	CAPTIVE AIRE 5412-SND-2	131	2293	-	14φ	-	1-6
H-2	CHAR	CAPTIVE AIRE 54I2-SND-2	78	1462	-	12φ	-	1-6

- I. PROVIDE HOOD MOUNTED DUPLEX SWITCH FOR INDEPENDENT ON/OFF OPERATION OF FANS AND LIGHTS.
- 2. PROVIDE EXHAUST FANS.
- 3. W/ FIRE SUPPRESSION SYSTEM. LOCATE FIRE SYSTEM UTILITY CABINET PER KITCHEN PLANS
- 4. W/ GREASE CUP
- 5. U.L. 710 LISTED, 3" BACK AIR SPACE
- 6. INFORMATION TAKEN FROM KITCHEN EQUIPMENT SUPPLIER DRAWINGS. SEE KITCHEN EQUIPMENT SUPPLIER DRAWINGS & MECHANICAL DETAIL SHEET FOR MORE INFO.

TEMPERATURE SENSOR FOR AUTOMATIC FAN OPERATION, PROVIDED BY HOOD MANUFACTURER, TO BE INSTALLED BY M.C. PER MANUFACTURER'S REQUIREMENTS.

			P	ACKA	GED	DX (COC	DLING	/ GAS	HEATI	NG RO	OF T	OP UI	NT SCHED	ULE			
1 1511-	ADEA		SUPPL	Y - FAN I	DATA			TING ACITY		LING ACITY	ELECT	RICAL D	ATA	MANILIFACTURED	ı mire	eee	1 15 11 ==	
UNIT NO.	AREA SERVED	TOTAL CFM	O/A CFM	MIN.EXT. 5.P. (IN.WG)	FAN RPM	MOTOR H.P.	INPUT M.B.H.	OUTPUT M.B.H.	TOTAL M.B.H.	SENSIBLE M.B.H.	VOLT/PH	MCA	MAX FUSE	MANUFACTURER # MODEL	UNIT CAP. (TONS)	EFF. EER (SEER)	UNIT WEIGHT (LBS)	NOTES
RTU-I	DINING	3000	725	1	MFG	1	1	-	-	-	•	-	-	1	7.5	1	1	1-2
RTU-2	KITCHEN	1200	275	1	MFG	1	1	-	-	-	-	-	-	1	3.0	1	-	1-2

NOTES:

- I. EXISTING ROOFTOP UNIT TO REMAIN, RELOCATE DUCTWORK AS SHOWN ON PLANS.
- 2. BALANCE O.A. TO VALUE SHOWN. CALCULATIONS BASED ON EXCEPTION LISTED IN NCMC SECTION 403.2

						FAN SC	HEDULE				
JNIT No.	SERVICE	AREA SERVED	CFM	S.P.	RPM	TYPE \$ ARRANGEMENT	MIN. MOTOR HP \$ VOLTAGE	MANUFACTURER # MODEL NO.	DRIVE	CONTROL SCHEME	REMARKS
EF-I	EXHAUST	TOILET	80	0.10"	MFG	FAN/LIGHT	43 WATTS/0.4 A 120/1¢	BROAN MODEL HD80L	DIRECT	А	I - 5
EF-2	EXHAUST	RESTROOM	150	0.10"	MFG	CEILING	60 WATTS/0.5 A 120/1¢	BROAN MODEL QT150	DIRECT	В	1-4

NOTES:

- 4. INTEGRAL DISCONNECT SWITCH SCREEN
- 2. BACKDRAFT DAMPER 5. FAN/LIGHT COMBO
- 3. COLOR BY ARCHITECT

2. U.L. OR ETL LISTED.

CONTROL OPTIONS:

- A. CONTROL W/ SWITCH

B. CONTROL W/ ROOM LIGHTS	ò
---------------------------	---

						KITO	CHEN FA	N SCHED	ULE			
UNIT NO.	SERVICE	HOOD SERVED	CFM	INPUT MBH	S.P.	RPM	TYPE \$ ARRANGEMENT	MIN. MOTOR HP \$ VOLTAGE	MANUFACTURER \$ MODEL NO.	MOTOR TYPE	CONTROL SCHEME	REMARKS
KEF-I	EXHAUST	H-1	2293	-	1.0"	MFG	UPBLAST	1.0 HP 120/1¢	CAPTIVE AIRE DU85HFA	TEAO-ECM	A,C	1,3,4,7,8
KEF-2	EXHAUST	H-2	1462	-	1.0"	MFG	UPBLAST	1.0 HP 120/1¢	CAPTIVE AIRE DU85HFA	TEAO-ECM	A,C	1,3,4,7,8
DOAS-I	SUPPLY	H-1,2	3250	328	0.5"	MFG	RTU	3.0 HP 208/3¢	CAPTIVE AIRE CAS-HVAC3-I400-20-20T	20P-3	В	2,3,6,8,9

- 1. U.L. 762 LISTED FOR GREASE REMOVAL 4. W/ GREASE TRAP W/ DRAIN CONNECTION. 7. FURNISH W/ EXHAUST EXTENSION.
- 3. PROVIDE STARTER AS REQUIRED 6. W/ ALUMINUM BIRD SCREEN.
- 5. BACKDRAFT DAMPER
 - 8. COORDINATE W/ KITCHEN EQUIPMENT SUPPLIER DRAWINGS. SEE FOR MORE INFO.

9. COORDINATE GAS INPUT W/ P.C.

CONTROL OPTIONS:

- A. CNTRL W/ HOOD SWITCH
- B. INTERLOCK W/ HOODS
- C. ALL HOODS TO BE INTERLOCKED TOGETHER.

		DO	AS EL	ECTR	CAL S	CHED	ULE	
		CON	Denser Sii	DE				
		ELE	CTRICAL DA	ATA	Gl	ENERAL DAT	Ά	
UNIT TAG	SYSTEM SERVED	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	MANUF. MODEL	TONNAGE	SEER	NOTES
DOAS-I	KITCHEN	208/3φ	81.5	90	20P-3	20	14	1-2

- I. CONDENSERS PART OF PACKAGED UNIT
- 2. CONSULT CAPTIVEAIRE FOR CU MODEL # AND COORDINATE BREAKER SIZES

	DIFFUSER SCHEDULE														
SYMBOL	SIZE SIZE TITE TODELING.														
A	AS NOTED	AS NOTED	24x24	LAY-IN	4-WAY	YES	STEEL	SUPPLY	NOTE 2	TITUS TDC	1-3				
(B)	AS NOTED	AS NOTED	AS NOTED	SURFACE	FIX BLD.	YES	STEEL	SUPPLY	NOTE 2	TITUS 300RS	1-3				
©	AS NOTED	AS NOTED	12x12	SURFACE	4-WAY	YES	STEEL	SUPPLY	NOTE 2	TITUS TDC	1-3				

1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:

DIFFUSER OR

NECK SIZE.

8x4
AS NOTED ABOV. AS NOTED ABOVE AIR QUANTITY -

- 2. FINISH TO MATCH / BE ABLE MATCH CEILING OR WALL OR DOOR.
- 3. FACTORY INSULATION BACKING ON GRILLES EXPOSED TO NON-CONDITIONED AREAS. ALTERNATELY, FIELD SUPPLY AND INSTALL.

	GR	AVITY	VENTILATO	R S	CHEDU	_E	
UNIT DESIG.	AREA SERVED	FUNCTION	MANUFACTURER \$ MODEL #	CFM	MOUNTING	PRESSURE DROP	NOTES
GV-I	RESTROOM	RELIEF	GREENHECK GRSR-10	1	ROOF	0.06	1-4

NOTES:

- I. PROVIDE FACTORY MANUFACTURED ROOF CURB. 3. INSTALL W/ BACKDRAFT DAMPER. 2. COLOR TO MATCH ROOF.

В.	٥.	INSTALL	M/	BACKDE	KAFI	DAIMPER.
	4.	INSTALL	W/	INSECT	SCRI	EEN.

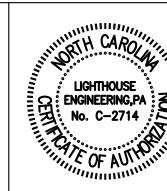
	Drawing Sheet List
#	Title
M001	Mechanical Legend, Notes, and Schedules
M002	Mechanical Details
M003	Mechanical Details
M004	Mechanical Details
M005	Mechanical Details
M006	Mechanical Details
M101	Mechanical Demo Plan - 1st Floor
M102	Mechanical Demo Plan - 2nd Floor
M101	Mechanical Plan - 1st Floor

M102 Mechanical Plan - 2nd Floor

								SPLI	r sys	TEM H	EAT P	JMP U	INIT SO	HED	ULE							
						AIR HAN	DLING UNIT	DATA									HEAT PUMP					
				FAN I	DATA		COO	LING	HEAT	AUX.	ELE	CTRICAL DA	ATA		GE	NERAL DAT	Ά		ELEC	TRICAL DA	ATA	
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (" OF WG)	MOTOR (HP)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	HEAT (KW@240)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	UNIT TAG	MANUF. MODEL	TONNAGE	SEER 2	HSPF 2	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	NOTES
AH-I	MEZZANINE	MITSUBISHI MSZGS36	560	-	-	-	33.2	24.9	22.8	-	POWERED	VIA OUTDO	OOR UNIT	HP-I	MITSUBISHI MUZGS36	3.0	26.0	-	208/Ιφ	22.0	25	1-9
AH-2	STORAGE	MITSUBISHI MSZGSI2	307	-	-	-	12.0	9.0	9.0	-	POWERED	VIA OUTDO	OOR UNIT	HP-2	MITSUBISHI MUZGSI2	1.0	26.0	-	208/1φ	10.0	15	1-9

- 1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS ARE RATED IN ACCORDANCE WITH ARI STANDARD 340.
- 2. REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP.TO BE PROVIDED PER MFG. GUIDELINES WHEN REQUIRED. MC TO CONFIRM ALL LENGTHS WILL MEET MFG. REQUIREMENTS BEFORE INSTALLATION.
- PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT.
- 4. SYSTEMS SHALL HAVE A MINIMUM 14.3 SEER2 AND 7.5 HSPF2 RATING.
- 5. PROVIDE BI-FLOW TXV FOR HEAT PUMP OPERATION.

- 6. DRAIN CONDENSATE TO HUB DRAIN.
- 7. PROVIDE WITH WALL MOUNTED T-STAT
- 8. CONDENSATE AND REFRIGERANT PIPING TO BE LOCATED INSIDE WALL CAVITY. ALL PENETRATIONS TO BE PATCHED AND SEALED.
- 9. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF UNIT DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY UNITS. INFORMATION ON ALTERNATE UNITS PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADD/DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT UNIT (OR THE ALTERNATE PACKAGE AS A WHOLE).







701 W Trinity Ave #117 Durham, NC 27701

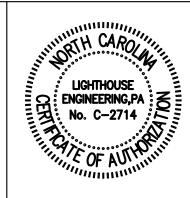
MECHANICAL ELECTRICAL PLUMBING

for permit 10/11/24

02/21/2025

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Mechanical Legend, Notes, and Schedules







701 W Trinity Ave #117 Durham, NC 27701

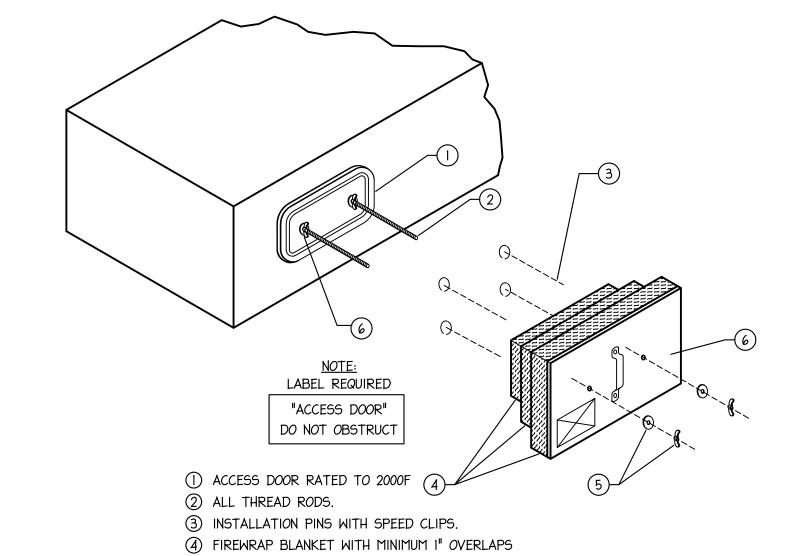
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for permit 10/11/24

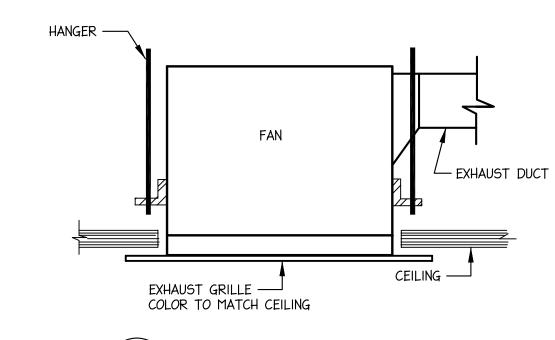


GREASE DUCT CLEANOUT DETAIL

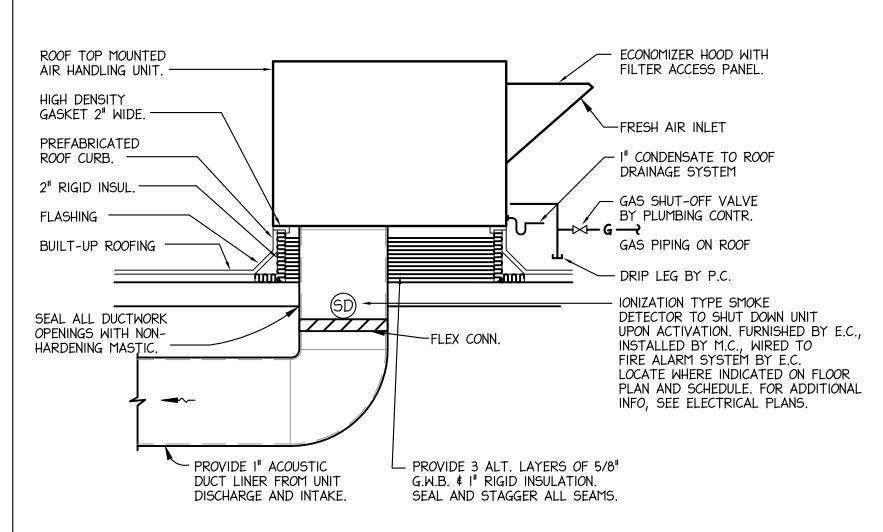
AND ALL EDGES SEALED WITH ALUMINUM TAPE.

(5) WING NUTS AND WASHERS

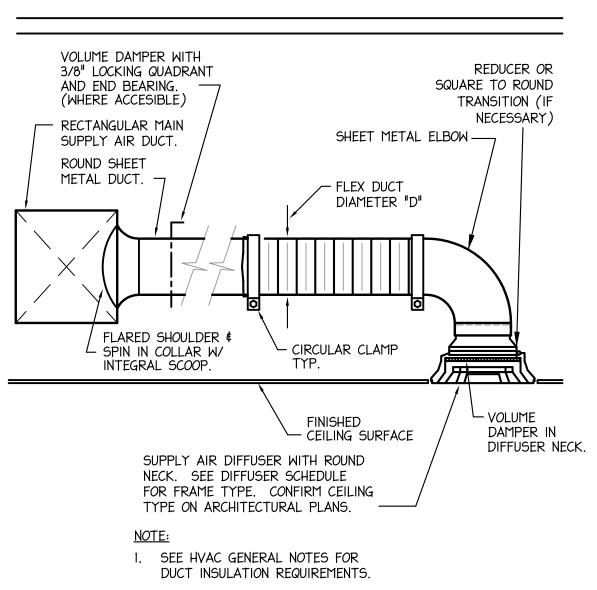
6 OUTER COVER PLATE LABLED



EXHAUST FAN DETAIL NO SCALE



GAS DOAS UNIT



SUPPLY AIR DIFFUSER DETAIL

KITCHEN HOOD NOTES

- KITCHEN EXHAUST DUCT TO BE CONSTRUCTED OF 16 GAUGE BLACK IRON W/CONTINUOUS EXTERNAL LIQUID-TIGHT WELDS
- . SLOPE EXHAUST DUCT ¼" PER FOOT MINIMUM.
- RADIUS THROAT AND ELBOW OF EXHAUST DUCT
- OFFSETS WITH MINIMUM 6" INNER RADIUS PROVIDE CLEAN-OUTS PER CODE.
- WRAP ENTIRE DUCT WITH ASTM E2336 APPROVED FIREWRAP FROM HOOD EXHAUST TO FAN DISCHARGE
- WHERE REQ'D. FOR CLEARANCES PER CODE. DUCT WRAP TO BE INSTALLED PER MFGR'S REQUIREMENTS AND UL CLASSIFICATION
- GC TO SPACE STRUCTURE TO ACCOMMODATE DUCTS W/ WRAP AS REQ'D. (MIN 18" CLEAR TO COMBUSTIBLES) \$ PROVIDE RATED CHASE W/RATED ACCESS DOOR AS REQ'D
- PROVIDE/PROTECT CLEAN-OUTS PER MFGR'S AND U.L. REQUIREMENTS.
- PROVIDE WITH FACTORY PRE-WIRED MOTOR CONTROL PACKAGE.
- 10. INSTALL HOOD AT HEIGHT PER CODE \$ W/ GREASE FILTERS 3.5' ABOVE COOKING SURFACE W/OPEN FLAME, PER CODE.
- HOOD CAPTURE SIZE BASED UPON EQUIP. SCHEDULED TO BE UNDER HOOD PLUS MIN. 6" ON ALL EXPOSED SIDES PER CODE. FIELD VERIFY/COORD. HOOD SIZE # FANS CAPACITIES W/ACTUAL EQUIP. FURNISHED.
- 12. EXACT HOOD-DUCT CONNECTION & TRANSITION SIZES SHALL BE FULLY COORD. W/HOOD MFG. PRIOR TO FABRICATION 13. MAKE-UP AIR FAN TO SHUTDOWN UPON DETECTION OF
- 14. EXHAUST FAN TO REMAIN OPERATING DURING "ALARM".
- 15. HOOD MUST MEET U.L. 710

FIRE SUPPRESSION SYSTEM.

16. SECTIONS OF GREASE DUCT THAT ARE INACCESSIBLE FROM THE HOOD OR DISCHARGE OPENINGS SHALL BE PROVIDED WITH CLEANOUT OPENINGS SPACED NOT MORE THAN 20 FEET APART AND NOT MORE THAN 10 FEET FROM CHANGES IN DIRECTION GREATER THAN 45°.

PROVIDED OPTIONS:

INSULATED CURB

PITCHED CURB

GREASE CUP

HINGED FAN

HASP KIT

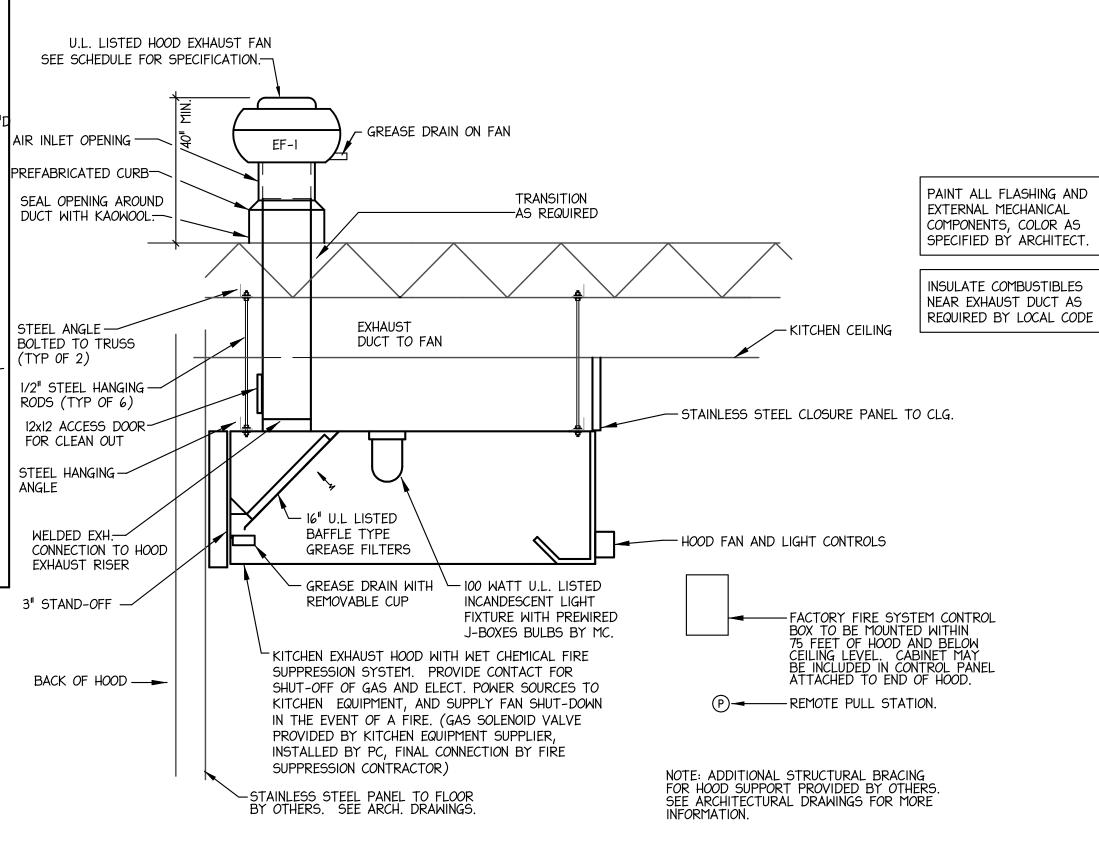
PROVIDED FEATURES: - ROOF MOUNTED FANS

- RESTAURANT MODEL - UL 762 & UL 705 - WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION - HIGH HEAT OPERATION (400°F) - GREASE CLASSIFICATION TESTING:
- CSA APPROVED NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 400°F (204°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY
- DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION. ABNORMAL FLARE-UP TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (315°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING
- DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

KITCHEN HOOD FIRE SUPPRESSION SYSTEM

PROVIDE A PRE-ENGINEERED, WET CHEMICAL, CARTRIDGE OPERATED TYPE FIRE SUPPRESSION SYSTEM. IT SHALL BE A FIXED NOZZLE AGENT DISTRIBUTION NETWORK, AND SHALL BE UL LISTED. THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND REMOTE ACTUATION. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 96 AND AUTHORITY HAVING JURISDICTION. DISCHARGE NOZZLES WILL PROVIDE COVERAGE OF, BUT NOT LIMITED TO, THE HOOD AREA AND EXHAUST DUCT. FURNISH ELECTRIC OPERATED SHUT OFF VALVE.

THE SYSTEM SHALL BE AN ANSUL MODEL R-102 OR APPROVED EQUAL.



KITCHEN HOOD (TYPE 1) DETAIL - GENERIC NO SCALE

M002

Mechanical

Details

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - IOR#6967115

FOR QUESTIONS, CALL THE

Eastern North Carolina REGION 36 PHDNE: (919) 825 - 3566 EMAIL: reg36@captiveaire.com

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						MAX									LENUM					ONFIG
	00D	TAG	MODEL	MANUFACTURER	LENGTH	COOKING	TYPE	APPLIANCE	DESIGN	TOTAL			F	RISER	(2			HOOD	END TO	
	ND	ING	MUDEL	MANOFACTORER	LLNGIII	TEMP		DUTY	CFM/FT	EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	CONSTRUCTION	END RI	ROW
	1	KH-1 LEFT	5412	CAPTIVEAIRE	10′ 11 ″	450	т	MEDIUM	210	2293			1"	14"	2293	2145	-1.052*	430 SS	LEFT	ALONE
	1	KH-I LEFT	SND-2	CHLIIAEHIKE	10 11	DEG	1	MEDIOM	510	EE 93				17	EE 93	5140	-1.032	WHERE EXPOSED		
	2	KH-2	5412	CAPTIVEAIRE	6′ 6 ″	450	т	MEDIUM	225	1462			Α,	12"	1462	1861	-0.749*	430 SS	RIGHT	ALONE
	_	RIGHT	SND-2	CHPTIVEHIRE	0 0	DEG	1	MEDIOM	EEJ	1462			_ 	15	1462	1001	-0.743	WHERE EXPOSED	KIGHT	ALUNE

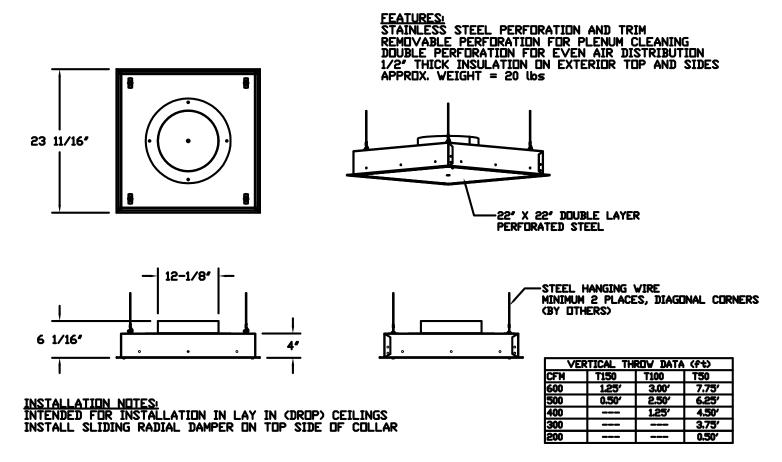
HO	DD INFORMA	ATION															
HOC	ח			FILTER(S >			LIGHT(S)					UTILITY CABINET(S) RE SYSTEM	ELECTRICAL	SWITCHES	FIRE	HOOD
NE		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	MHANGING WEIGHT
1	KH-1 LEFT	CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	5	RECESSED ROUND	NO							YES	662 LBS
2	KH-2 RIGHT	CAPTRATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO							YES	412 LBS

<u>IOOD</u>	<u>OPTIONS</u>	
HOOD NO	TAG	OPTION
		FIELD WRAPPER 18.00° HIGH FRONT.
		BACKSPLASH 68.00" HIGH X 209.00" LONG 430 SS VERTICAL.
		BACK STANDOFF (FLAT) 5' WIDE 131' LONG.
1	KH-1 LEFT	INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		LEFT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 68' HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00° HIGH FRONT.
		INSULATION FOR TOP OF HOOD.
2	KH-2 RIGHT	INSULATION FOR BACK OF HOOD.
-	KII-E KIGIII	RISER SENSOR INSTALL 6IN PLEN.
	F	RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 68" HIGH INSULATED 430 SS.

WALL	-MOUNT	UTILITY	CABINET		
				UTILITY CABINET(S	>
-1002				FIRE SYSTEM	ELECTR
HOOD NO	LOCATION	SIZE	TYPE	SIZE	MODEL
	, and the second				

				UTILITY CABINET(S	>			
ПППЛ			FIF	RE SYSTEM	ELECTRICAL	SWITCHES		
HOOD NO	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	WEIGHT	
a	WALL MNT 12"x60"x24" TA		TANK FS	4.0/4.0/4.0	SC-E012011MA	1 LIGHT	440.00 LBS	
	WHEE PINT	IL XOU XL4	THINK 13	4.07 4.07 4.0	30 LOILOIIMA	1 FAN	1 440.00 LD3	

QTY 6-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



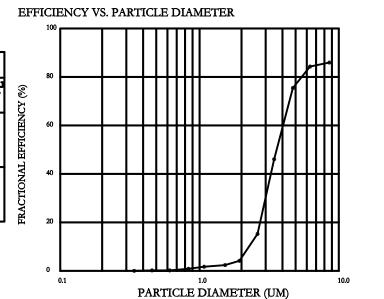
SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

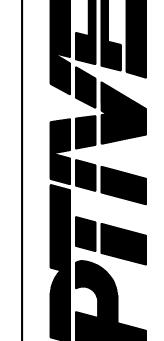


FLOW RATE (CFM)

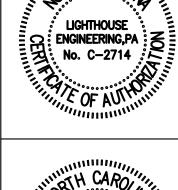
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH. NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC). ULC-S649.

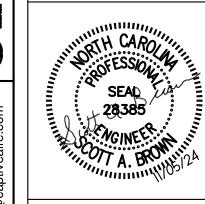






REVISIONS DESCRIPTION DATE:







701 W Trinity Ave #117 Durham, NC 27701

for permit 10/11/24

408 W Geer St. Durham, NC 27701

hins Showro a restaurant upfit Hutchins

Mechanical

Details

HUTCHINS 408 Dur **DATE:** 10/28/2024

DWG.#:

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6967115 DRAWN BY:

-DURHAM-R4

SHOWROOM-

SCALE: 3/4" = 1'-0"

MASTER DRAWING

M003

SHEET NO.

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#6967115

FOR QUESTIONS, CALL THE

Eastern North Carolina REGION 36 PHDNE: (919) 825 - 3566 EMAIL: reg36@captiveaire.com

<u> </u>	<u> </u>	4 <i>1101</i> V — (<i>JUD#030/11</i>	<u> </u>															
					MAX							EXHA	UST P	LENUM				НООД С	ONFIG
HOOD	TAG	MODEL	MANUFACTURER	LENGTH	COOKING	TYPE	APPLIANCE	DESIGN	TOTAL			F	RISER	S >			HOOD	END TO	
NO	ב ב	MUDEL	MANOF ACTORER	LENGTH	TEMP	1112	DUTY	CFM/FT	EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	CONSTRUCTION	END	ROW
1	KH-1 LEFT	5412 SND-2	CAPTIVEAIRE	10′ 11″	450 DEG	I	MEDIUM	210	2293			4"	14"	2293	2145	-1.052*	430 SS WHERE EXPOSED	LEFT	ALONE
2	KH-2 RIGHT	5412 SND-2	CAPTIVEAIRE	6′ 6 ″	450 DEG	I	MEDIUM	225	1462			4"	12"	1462	1861	-0.749*	430 SS WHERE EXPOSED	RIGHT	ALONE

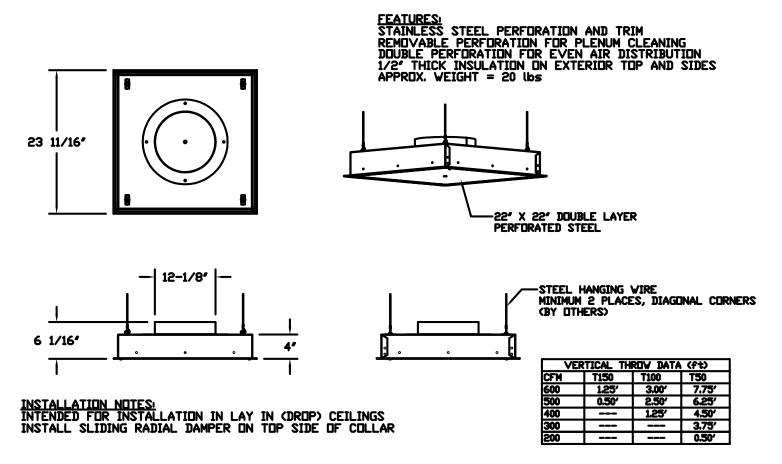
HO	DD INFORMA	ATION															
HOC	ח			FILTER(S >			LIGHT(S)					UTILITY CABINET(S) RE SYSTEM	ELECTRICAL	SWITCHES	FIRE	HOOD
NE		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	MHANGING WEIGHT
1	KH-1 LEFT	CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	5	RECESSED ROUND	NO							YES	662 LBS
2	KH-2 RIGHT	CAPTRATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO							YES	412 LBS

H001	OPTIONS	
HOOD	TAG	OPTION
		FIELD WRAPPER 18.00° HIGH FRONT.
		BACKSPLASH 68.00" HIGH X 209.00" LONG 430 SS VERTICAL.
		BACK STANDOFF (FLAT) 5' WIDE 131' LONG.
1	KH-1 LEFT	INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		LEFT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 68' HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00° HIGH FRONT.
		INSULATION FOR TOP OF HOOD.
2 ا	 KH-2 RIGHT	INSULATION FOR BACK OF HOOD.
-	Kir E Kigiri	RISER SENSOR INSTALL 6IN PLEN.
	F	RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 68" HIGH INSULATED 430 SS.

WALL-MOUNT	UTILITY	CABINE

				UTILITY CABINET(S	>		
ПППЛ			FIF	RE SYSTEM	ELECTRICAL	SWITCHES	
HOOD HOOD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	WEIGHT
٥	WALL MNT	12 * ×60 * ×24 *	TANK FS	4.0/4.0/4.0	SC-E012011MA	1 LIGHT	440.00 LB
	WHEE MINT	IL XOU XL4	THINK 13	4107 4107 410	3C LOILOIIMA	1 FAN	770,00 LB

QTY 6-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



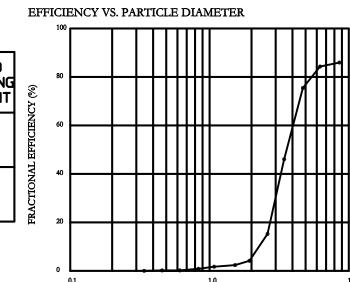
SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



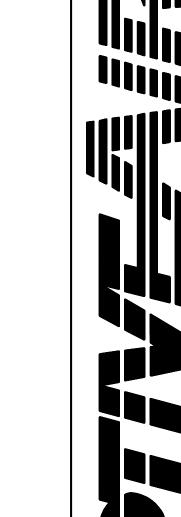
PARTICLE DIAMETER (UM)

FLOW RATE (CFM)

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH. NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC). ULC-S649.







REVISIONS DESCRIPTION DATE:

LIGHTHOUSE

ENGINEERING,PA



701 W Trinity Ave #117 Durham, NC 27701

for permit 10/11/24

408 W Geer St. Durham, NC 27701

hins Showro a restaurant upfit Hutchins

DATE: 10/28/2024

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408 Dur

DWG.#: 6967115

DRAWN BY:

-DURHAM-R4

SHOWROOM-

HUTCHINS

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

M004

Mechanical

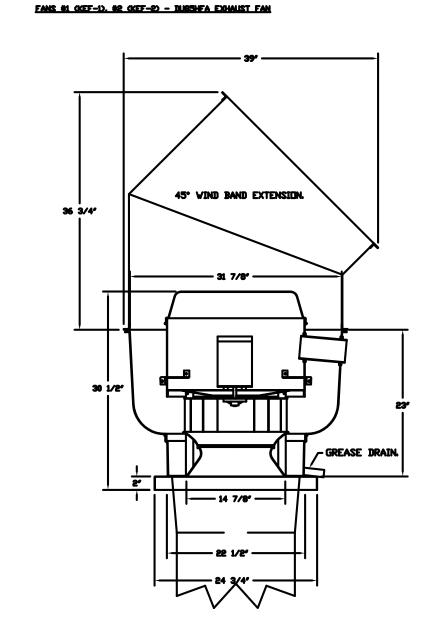
Details

12.	11. 81% EFFICIENT FURNACE, WITH MUDULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FOR 12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE										
			Ting hot gas reheat Be/Down return								
FAN	OPTION	IS									
FAN UNIT NO	TAG	QTY	DESCRIPTION								
		1	GREASE BOX								
1	KEF-1	1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS								
		1	45° VIND BAND EXTENSION 15 (SHIPS LOOSE), ADDS 3 VEEKS TO FAN LEAD TIME								
•		1	ECM VIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCV ROTATION								
		1	2 YEAR PARTS VARRANTY								
		1	GREASE BOX								
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS								
2	KEF-2	1	45° VIND BAND EXTENSION 15 (SHIPS LOUSE), ADDS 3 VEEKS TO FAN LEAD TIME								
2	NEI E	1	ECM VIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCV ROTATION								
		1	2 YEAR PARTS VARRANTY								
		1	INLET PRESSURE GAUGE, 0-35'								

DESCRIPTION TAG				
UNIT TAG GIT GREASE BDX 1 GREASE BDX 1 FAN BASE CERAMIC SEAL - DU/DROSHFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 45° VIND BAND EXTENSION IS CSHIPS LODISE. ADDS 3 VEEKS TO FAN LEAD TIME ECM VIRING PACKAGE - HANNAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO) 1 GREASE BDX 1 FAN BASE CERAMIC SEAL - DU/DROSHFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 GREASE BDX 1 FAN BASE CERAMIC SEAL - DU/DROSHFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 GREASE BDX 1 FAN BASE CERAMIC SEAL - DU/DROSHFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 SY VIND BAND EXTENSION IS GSHIPS LODISE. ADDS 3 VEEKS TO FAN LEAD TIME 1 PAR PARTS VARRANTY 1 DIVERT PRESSURE GAUGE, 0-35° 1 TOTAL CFM HONITORING 1 DIVAGE FIRESTAT SET TO 1840°F 1 DIVAGE FIRESTAT SET TO 1840°F 1 DIVAGE FIRESTAT SET TO 1840°F 1 SINGLE PIDINT ELECTRICAL CONNECTION FOR RTLL 750VA TRANSFORMER USED. IF A HON-DCV 1 PREVIEW CONTROLS THIS UNIT, THE 889, 447, MM, OR "ESP PREVIEW DIFTION MUST 1 RESELECTED DUES NOT PROVIDE SUPPLY STARTER IN PREVIEW 1 REVEN 9 FILTERS FOR RTUS GITY. 40 1 2º MERV 9 FILTERS FOR RTUS GITY. 40 1 2º MERV 9 FILTERS FOR RTUS GITY. 40 1 2º MERV 9 FILTERS FOR RTUS GITY. 40 1 2º MERV 9 FILTERS FOR RTUS GITY. 40 1 COMPRESSOR, COM CONDENSING PARS 1 CONDERSION, ECM CONDENSING PA	FAN	OPTION	IS	
1 FAN BASE CERAMIC SEAL — DU/DR85HFA — INSTALLED AT PLANT — FOR GREASE DUCTS 1 45° VIND BAND EXTENSION 15 CHIPS LIDISEA. ADDS 3 VECKS TO FAN LEAD TIME 2 VIRING PACKAGE — MANUAL OR 0-10VDC REFERENCE SPEED CONTROL —RTC— (TELCO MOTOR), CCV ROTATION 1 2 YEAR PARTS VARRANTY 1 GREASE BOX 1 FAN BASE CERAMIC SEAL — DU/DR85HFA — INSTALLED AT PLANT —FOR GREASE DUCTS 1 45° VIND BAND EXTENSION 15 CHIPS LIDISEA, ADDS 3 VECKS TO FAN LEAD TIME 2 CH VIRRING PACKAGE — HANUAL OR 0-10VDC REFERENCE SPEED CONTROL —RTC— (TELCO MOTOR), CCV ROTATION 1 2 YEAR PARTS VARRANTY 1 INLET PRESSURE GAUGE, 0-35° 1 TOTAL C'PH MONITORING 1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 135°F 1 FREEZESTAT 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED. IF A NON-DCV PREVINCE CONTROLS THIS UNIT, THE 828, 447, 744°, OR "E2" PREVINCE OPTION MUST RE SELECTED. DICES NOT PROVIDE SUPPLY STARTED IN PREVINCE 1 CASLINK BUILDING MONITORING SYSTEM — DITERNET OR CELLULAR CONNECTION REQUIRED 1 2" MERV 13 FILTERS FOR RTUS COTY, 40 1 2" MERV 3 FILTERS FOR RTUS COTY, 40 1 2" MERV 9 FILTERS FOR RTUS COTY, 40 1 COMPRESSIN, ECH CONDENSING FAMS 2 DOAS 3 DOAS 3 DOAS 3 DOAS 4 RTUS CURB DUCT HANGER 1 CONDERCIAL SHOKE DETECTIOR/ALARN INTERLICK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN INTERLICK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN INTERLICK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN INTERLICK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN INTERLICK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN INTERLICK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN DITERLOCK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN DITERLOCK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN DITERLOCK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN DITERLOCK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN DITERLOCK — ALARM SUPPLIED BY OTHERS 1 CONDERCIAL SHOKE DETECTIOR/ALARN DITERLOCK — ALARM	UNIT	TAG	QTY	DESCRIPTION
1 AS* VIND BAND EXTENSION 15 CSHIPS LIDISEX ADDS 3 VEEKS TO FAN LEAD TIME ECM VIRING PACKAGE - MANUAL OR 0-10/VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCV ROTATION 1 2 YEAR PARTS VARRANTY 1 GREASE BOX 1 FAN BASE CERAMIC SEAL - DU/DRSSHFA - INSTALLED AT PLANT - FOR GREASE BUCTS 1 45° VIND BAND EXTENSION 15 CSHIPS LIDISEN, ADDS 3 VEEKS TO FAN LEAD TIME ECM VIRING PACKAGE - MANUAL OR 0-10/VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCV ROTATION 1 2 YEAR PARTS VARRANTY 1 INLET PRESSURE GAUGE, 0-35° 1 TOTAL CPH MONITORING 1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 135°F 1 FREEZESTAT 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED. IF A NON-DCV PREVIRE CONTROLS NOT REQUIRE SPEED CONTROL REQUIRED 1 CASLINK BUILDING MONITORING SYSTEM - DITERNET OR CELLULAR CONNECTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN FREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - DITERNET OR CELLULAR CONNECTION REQUIRED 1 2" MERV 13 FILTERS FOR RTU3 (GTY, 4) 1 2" MERV 9 FILTERS FOR RTU3 (GTY, 4) 1 2" MERV 9 FILTERS FOR RTU3 (GTY, 4) 1 2" MERV 9 FILTERS FOR RTU3 (GTY, 4) 1 1 COVERNESTER, ECM CONDENSING FANS 2 DOAS 3 DOAS 3 DOAS 4 RTU3 CURB DUCT HANGER 1 CONNECSIAN, ECC CONDENSING FANS 2 TO THE MODULATING GENERAL PUTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 CONNECSIAN BUTTAN GENERAL PUTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 CONNECSIAN BUTTAN GENERAL PUTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 DUVN RETURN 1 REMOTE TEMPERATURE AND HANDLITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (77) FD INCLUDEDD 1 VAV PACKAGE V/ MANUAL/DDC CONTROL CR71 VITH QUICK SEAL AND ANTI-RUTATION 2 SYAR ENTIRE UNIT PARTS VARRANTY (SEE ADDITIONAL DETAILS) 3 YEAR ENTIRE MUIT PARTS VARRANTY (TO YEAR ENTIRE UNIT PARTS VARRANTY VITH REMOTE 4 HANDLING AND CONTROL CONTROL CONTROL CR7 SY YEAR STANLESS STEEL FUNNACE 4 PAR			1	GREASE BOX
ECH VIRRING PACKAGE - MANUAL DR 0-10/DC REFERENCE SPEED CONTROL -RTC- (TELCO MOTION), CCV ROTATION 1 2 YEAR PARTS VARRANTY 1 GREASE BOX 1 FAN BASE CERANIC SEAL - DU/DR89HFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 HAS VIND BAND EXTENSION 15 (SHIPS LODSE), ADDS 3 VEEKS TO FAN LEAD TIME 1 CHANGE, CCV ROTATION 1 SYEAR PARTS VARRANTY 1 INLET PRESSURE GAUGE, 0-35° 1 TOTAL CFM MONITORING 1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240°F 1 SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED, IF A NON-DCV 1 PREVINE CONTROLS THIS LOUT, THE MES, 447, "MA", DR "E2" PREVIRE DPTION MUST 1 RE SELECTA, DUCS NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - DITERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2" MERV 13 FLI TERS FOR RTU3 (GTY, 4) 1 DVERHEAT STAT 1 DOVERNEATS STAT 2 DO TON MODULATING COOLING DPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED 1 COMPRESSUR, ECH CONDENSING FAMS 2 DOAS 3 DOAS 3 DOAS 4 RTU3 CURB DUCT HANGER 5 COMPRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - DITEON - SPACE DEVPOINT CONTROL - R410A 1 RTU3 DOWN RETURN 1 REDUITE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1 CLOGGED FILTER SYSTEM - NOT 10° VC, 2 FURNACES 1			1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
ECM VIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- CTELCO MITTOR, CCV ROTATION 1 2 YEAR PARTS WARRANTY 1 GREASE BOX 1 FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 45° VIND BAND EXTENSION 15 CSHPS LODGEA ADDS 3 VEEKS TO FAN LEAD TIME 1 EM WIRDING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- CTELCO MITTOR, CCV ROTATION 1 IN LET PRESSURE GAUGE, 0-35° 1 INTAL CFH MONITORING 1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 1240°F SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREVIRE CONTROLS THIS UNIT, THE 828, 447, 744°, OR "EX" PREVIRE DEPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - BNTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2" MERV 13 FILTERS FOR RTU3 GOTY. 4) 1 2" MERV 3 FILTERS FOR RTU3 GOTY. 4) 1 2" MERV 3 FILTERS FOR RTU3 GOTY. 4) 1 2" MERV 3 FILTERS FOR RTU3 GOTY. 4) 1 2" MERV 3 FILTERS FOR RTU3 GOTY. 4) 1 CONFRESSOR, ECH CONDENSING FANS 3 DOAS 3 DOAS 1 RTU3 CURB DUCT HANGER 1 CONMERCIAL SHORE DETECTOR/ALARH INTERLOCK - ALARM SUPPLIED BY OTHERS 1 CONFRESSOR, ECH CONDENSING FANS 1 CONFRESSOR, ECH CONDENSING FOR SOME SHOP IN THE STATE OF THE STATE OF THE STATE SHOP IN THE STATE SHOP I	,	KEE-1	1	45° VIND BAND EXTENSION 15 (SHIPS LOOSE). ADDS 3 VEEKS TO FAN LEAD TIME
1 GREASE BOX 1 FAN BASE CERAMIC SEAL - DU/DR89HFA - INSTALLED AT PLANT - FOR GREASE DUCTS 1 145° VIND BAND EXTENSION 15 (SMIPS LIDISE) ADDS 3 VEEKS TO FAN LEAD TIME 2 ECH VIRING PACKAGE - HANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO) 1 EVERY PARTS VARRANTY 1 INLET PRESSURE GAUGE, 0-35° 1 TUTAL OF MONITORING 1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 135°F 1 FREEZESTAT 2 DISCHARGE FIRESTAT SET TO 135°F 1 FREEZESTAT 3 DISCHARGE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 135°F 1 FREEZESTAT 2 DISCHARGE FIRESTAT SET TO 135°F 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET DR CELLULAR CONNECTION MUST 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2° MERV 13 FILTERS FOR RTU3 GOTY. 4) 1 2° MERV 13 FILTERS FOR RTU3 GOTY. 4) 1 DIVERNEAT STAT 2 DIA MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED 1 COMPRESSOR, ECH CONDENSING FANS 1 COUPPED SCHEDULING 1 RTU3 CURB DUCT HANGER 1 COUPPED SCHEDULING 1 HIGH TURNOOUN DYTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HIG 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAVY PACKAGE V MANUAL/DOC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DV 1 24VAC FIRE INPUT 1 SYARRANTY (SEE AND HUMIDITY SPACE SENSOR 1 VARY PACKAGE V MANUAL/DOC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DV 1 SYARRANTY VITH REMOTE 1 MENITORING AND CAPITYCAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 HERITORING AND CAPITYCAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 HERITORING AND CAPITYCAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 HERITORING AND CAPITYCAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 HERITORING AND CAPITYCAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE	•		1	
1 FAN BASE CERANIC SEAL - DU/DR89HFA - DISTALLED AT PLANT - FOR GREASE DUCTS 1 45° VIND BAND EXTENSION 15 (SHIPS LIDISE). ADDS 3 VEEKS TO FAN LEAD TIME 1 145° VIND BAND EXTENSION 15 (SHIPS LIDISE). ADDS 3 VEEKS TO FAN LEAD TIME 1 END VIRING PACKAGE - HANNAL OR 0-10/VIC REFERENCE SPEED CONTROL -RTC- (TELCO) 1 INLET PRESSURE GAUGE, 0-35° 1 TOTAL CFM MOINTORING 1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240°F 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREVINE CONTROLS THIS UNIT, THE 828, 847, *MA*, OR *E2* PREVINE OPTION MUST 2 SE SELECTED. DOES NOT PROVIDE SUPPLY STATER IN PREVINE 1 CASIBAK BULDING MOINTORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2* MERV 13 FILTERS FOR RTU3 G(TY, 4) 1 COVERNEAT STAT 1 COVEREAT STAT 1 COVEREAT STAT 1 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED 1 CONNECSION, ECH CONNESSING FANS 1 RTU3 CURB DUCT HANGER 1 CONNECSION, ECH CONNESSING FANS 1 RTU3 CURB DUCT HANGER 1 RTU3 DUVN RETURN 1 RENDITE TEMPERATURE AND HUMIDITY SPACE DEVPOINT CONTROL - R410A 1 RTU3 DUVN RETURN 1 RENDITE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL CS71 VFD INCLUDED) 1 UNIT MOUNTED VFD CONTIGURED FOR DCV 1 24VAG FIRE DIPUT 2 SYER ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY VITH REMOTE PARTS VARRANTY VITH REMOTE PARTS VARRANTY CSEA ADDITIONAL DETAINS VITH FRUITE STATION AND ANTI-ROTATION			1	2 YEAR PARTS WARRANTY
2 KEF-2 1 45° VIND BAND EXTENSION 15 (SHIPS LIDISE). ADDS 3 VEEKS TO FAN LEAD TIME 1 ECH VIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO 1 MIDTOR), CCV RUTATION 1 2 YEAR PARTS VARRANITY 1 INLET PRESSURE GAUGE, 0-35° 1 TOTAL CFM MONITORING 1 INTAL CFM FIRESTAT SET TO 135°F 1 FREEZESTAT 1 IDISCHARGE FIRESTAT SET TO 240°F 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED, IF A NON-DCV 1 PREVINE CONTROLS THIS UNIT, THE 4829, 447, "MA", OF 22° PREVIRE OPTION MUST 2 SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2° MERV 13 FILTERS FOR RTU3 (GTV. 4) 1 COMPRESSOR, ECM CONDENSING FAMS 1 20 TON MODULATING COOLING OPTION, 208/230V. R4IDA REFRIGERANT, VARIABLE SPEED 1 COMPRESSOR, ECM CONDENSING FAMS 1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SHOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 COMMERCIAL SHOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 RTU3 DOWN RETURN 1 RRIGHT TURNOOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION IN HRI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HRI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAYA PACKAGE V/ MANUAL/DDC CONTROL (57) VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 2 SYARE FIRE UNIT PARTS VARRANITY, 10 YEAR ENTIRE UNIT PARTS VARRANITY VITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTROL, 57 YEAR STAINLESS STEEL FURNACE 2 PARTS VARRANITY SEE ADDITIONAL DETAINAL DETAINS VITH QUICK SEAL AND ANTI-ROTATION			1	GREASE BOX
ECH VIRING PACKAGE — MANUAL DR 0-10VDC REFERENCE SPEED CONTROL —RTC— (TELCO MOTING, CCV RUTATION 1 2 YEAR PARTS VARRANTY 1 INLET PRESSURE GAUGE, 0-35' 1 TOTAL CFM HONITORING 1 INTAKE FIRESTAT SET TO 135'F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240'F 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED, IF A NON-DCV PREVINE CONTROLS THIS UNIT, THE 869, 847, "MA", DR "E2" PREVIRE DETION MUST SE SELECTED, DOES NOT PROVIDE SUPPLY STATER IN PREVIRE 1 CASILNE BUILDING MONITORING SYSTEM — INTERNET DR CELLULAR CONNECTION REQUIRED 1 RTU3 DOVN DISCHARGE, 400, 500 MBH 1 2' MERV 13 FILTERS FOR RTU3 GOTY. 4) 1 DVERNEAT STAT 2 DO TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED 2 COMPRESSUR, ECM CONDENSING FANS 1 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED 2 TON MODULATING REHEAT OPTION — SPACE DEVPOINT CONTROL — R410A 2 TRU3 CURB DUCT HANGER 1 CONNECTIAL SHOKE DETECTOR/ALARM INTERLOCK — ALARM SUPPLIED BY OTHERS 1 DOCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 HANFFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH — NOTIFICATION DN HMI 1 RTU DITAKE/RETURN DAMPER — MANUAL CONTROL VIA HMI 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DOC CONTROL G571 VFD INCLUDED) 1 UNIT HOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 2 SYEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY VITH REMOTE MONITURING AND CAPTIVEARRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY CSEE ADDITIONAL DETAILS)			1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
ECM VIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCV ROTATION	ا و ا	KEE-2	1	45° VIND BAND EXTENSION 15 (SHIPS LOOSE). ADDS 3 VEEKS TO FAN LEAD TIME
1 INLET PRESSURE GAUGE, 0-35' 1 TOTAL CFM MONITORING 1 INTAKE FIRESTAT SET TO 135'F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240'F 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED, IF A NON-DCV 2 PREVIRE CONTROLS THIS UNIT, THE 828, 447, "MA", OR "E2" PREVIRE OPTION MUST 3 ES SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BULLDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2" MERV 13 FILTERS FOR RTU3 (GTY, 4) 1 2" MERV 3 FILTERS FOR RTU3 (GTY, 4) 1 1 2" MERV 8 FILTERS FOR RTU3 (GTY, 4) 1 1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED 2 COMPRESSOR, ECM CONDENSING FANS 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 DOCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10" VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RENOTE TEMPERATURE AND HUNDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (S71 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH RENOTE 1 MONITORING AND CAPITIVEARE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	
1 Intake firestat set to 135°F 1 Intake firestat set to 135°F 1 Freezestat 1 Discharge firestat set to 240°F 2 Single point electrical connection for Rtu, 750va transformer used. If a non-dcv 1 Previne controls this unit, the 429, 447, "Ma", or "e2" previne option must 2 Selected Dides not provide supply stater in previne 1 Caslink building monitoring system – internet or cellular connection required 1 Rtus down discharge, 400, 500 mbh 1 2" Merv 8 Filters for Rtus (gty. 4) 1 2" Merv 8 Filters for Rtus (gty. 4) 1 Diverheat stat 2 O ton modulating colling option, 208/230v. R410a refrigerant, variable speed 1 Conpressor, ech condensing fans 1 20 ton modulating reheat option – space devidint control – R410a 1 Rtus ocra language for the speed 1 Conference of the spee			1	2 YEAR PARTS WARRANTY
1 INTAKE FIRESTAT SET TO 135°F 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240°F 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED, IF A NON-DCV 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED, IF A NON-DCV 3 PREVIRE CONTROLS THIS UNIT, THE 4828, 447, "44", OR "52" PREVIRE OPTION MUST 4 E SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE OPTION MUST 5 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2" MERV 9 FILTERS FOR RTU3 (QTY. 4) 1 20" MERV 9 FILTERS FOR RTU3 (QTY. 4) 1 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED 1 COMPRESSOR, ECM CONDENSING FANS 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 CONMERCIAL SHOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DOCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 HANIFOLD PRESSURE GAUGE, 0 TO 10" VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE 1 MONITORING AND CAPITIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY VITH QUICK SEAL AND ANTI-ROTATION			1	INLET PRESSURE GAUGE, 0-35'
1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240°F 2 SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED, IF A NON-DCV 1 PREVIRE CONTROLS THIS UNIT, THE #28, #47, *MA*, OR *E2* PREVIRE OPTION MUST 2 BE SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2' MERV 9 FILTERS FOR RTU3 (QTY. 4) 1 2' MERV 9 FILTERS FOR RTU3 (QTY. 4) 1 1 OVERHEAT STAT 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED 1 COMPRESSOR, ECM CONDENSING FANS 1 20 TON MODULATING COOLING OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 COMPRESSOR, ECM CONDENSING FANS 1 COUPPED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU3 DOWN RETURN 1 RENOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DOC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEARE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY VITH QUICK SEAL AND ANTI-ROTATION			1	TOTAL CFM MONITORING
1 DISCHARGE FIRESTAT SET TO 240°F SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED, IF A NON-DCV 1 PREVIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREVIRE OPTION MUST 2 SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2" MERV 13 FILTERS FOR RTU3 (GTY, 4) 1 2" MERV 3 FILTERS FOR RTU3 (GTY, 4) 1 DIVERHEAT STAT 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED 1 COMPRESSINE, ECH CONDENSING FAMS 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 CONNERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DICCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10" VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HRU 1 RTU3 DOWN RETURN 1 RENOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DOC CONTROL (57) VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY VITH REMOTE 1 MONITORING AND CAPITIVEAUR SERVICE CONTROL, 25 YEAR STAINLESS STEEL FURNACE 1 PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY VITH QUICK SEAL AND ANTI-ROTATION			1	INTAKE FIRESTAT SET TO 135°F
SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED, IF A NON-DCV PREVIRE CONTROLS THIS UNIT, THE 828, 847, 7467, IO 722° PREVIRE OPTION MUST BE SELECTED. DIES NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2' MERV 8 FILTERS FOR RTU3 (QTY. 4) 1 DIVERHEAT STAT 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECH CONDENSING FANS 1 20 TON MODULATING REHAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DICCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DIDAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10' VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU3 INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 RENOTE TEMPERATURE AND HUNDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DIC CONTROL (57) VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY VITH REMOTE MONITORING AND CAPITIVEAIRE SERVICE CONTROL, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY VITH QUICK SEAL AND ANTI-ROTATION			1	FREEZESTAT
1 PREVIRE CONTROLS THIS UNIT, THE #28, #47, "MA", DR "E2" PREVIRE DIPTION MUST BE SELECTED, DOES NOT PROVIDE SUPPLY STARTER IN PREVIRE 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 2" MERV 13 FILTERS FOR RTU3 (QTY. 4) 1 2" MERV 3 FILTERS FOR RTU3 (QTY. 4) 1 DIVERHEAT STAT 20 TON MODULATING CIDILING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECH CONDENSING FAMS 1 20 TON MODULATING REHAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SMIKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DICCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10" VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE HUMITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	DISCHARGE FIRESTAT SET TO 240°F
1 RTU3 DUWN DISCHARGE, 400, 500 MBH 1 2' MERV 13 FILTERS FOR RTU3 (QTY. 4) 1 DVERHEAT STAT 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 CONNERCIAL SHOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DICCUPIED SCHEDULING 1 HIGH TURNDOWN DETION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10' VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY VITH REMOTE HONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY VITH QUICK SEAL AND ANTI-ROTATION			1	PREVIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREVIRE OPTION MUST
1 2' MERV 13 FILTERS FOR RTU3 (QTY. 4) 1 2' MERV 8 FILTERS FOR RTU3 (QTY. 4) 1 DIVERHEAT STAT 2 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED 1 COMPRESSOR, ECH CONDENSING FANS 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DICCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10' VC, 2 FURNACES 1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
1 2' MERV 8 FILTERS FOR RTU3 (QTY. 4) 1 DIVERHEAT STAT 1 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DCCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (57) VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	RTU3 DOWN DISCHARGE, 400, 500 MBH
1 DVERHEAT STAT 1 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DCCUPIED SCHEDULING FOR DOAS UNITS 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - HANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MOINTING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	2' MERV 13 FILTERS FOR RTU3 (QTY. 4)
20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS 1 20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A 1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DOCCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	2' MERV 8 FILTERS FOR RTU3 (QTY. 4)
DUAS			1	DVERHEAT STAT
1 RTU3 CURB DUCT HANGER 1 COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DCCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	
1 COMMERCIAL SNOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS 1 DCCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	20 TON MODULATING REHEAT OPTION - SPACE DEVPOINT CONTROL - R410A
1 DCCUPIED SCHEDULING 1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION	3	DOAS	1	RTU3 CURB DUCT HANGER
1 HIGH TURNDOWN OPTION FOR DOAS UNITS 1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
1 MANIFOLD PRESSURE GAUGE, 0 TO 10° VC, 2 FURNACES 1 CLOGGED FILTER SVITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	DCCUPIED SCHEDULING
1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE IMPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	HIGH TURNDOWN OPTION FOR DOAS UNITS
1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE IMPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	MANIFOLD PRESSURE GAUGE, 0 TO 10' VC, 2 FURNACES
1 RTU3 DOWN RETURN 1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE IMPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY VITH QUICK SEAL AND ANTI-ROTATION			1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR 1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE IMPUT 5 YEAR ENTIRE UNIT PARTS VARRANTY, 10 YEAR ENTIRE UNIT PARTS VARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS VARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY VITH QUICK SEAL AND ANTI-ROTATION			1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
1 VAV PACKAGE V/ MANUAL/DDC CONTROL (571 VFD INCLUDED) 1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	rtus down return
1 UNIT MOUNTED VFD CONFIGURED FOR DCV 1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	REMOTE TEMPERATURE AND HUNIDITY SPACE SENSOR
1 24VAC FIRE INPUT 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE 1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	UNIT MOUNTED VFD CONFIGURED FOR DCV
1 MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION			1	24VAC FIRE INPUT
			1	MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE
			1	

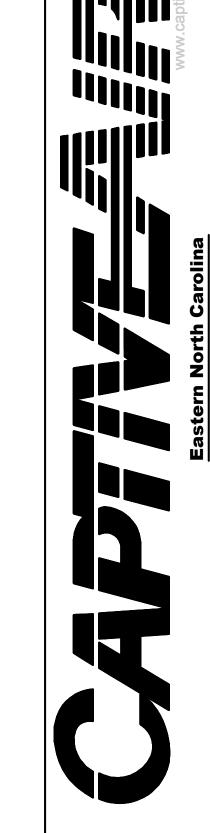
FAN UNIT	TAG	EXHAUST			SUPPLY						
NO OKT		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT			
1	KEF-1	YES									
2	KEF-2	YES									

L			- 1 1-0									
(CURB ASSEMBLIES											
		ON FAN	TAG	VEIGHT	ITEM	SIZE						
	1	# 1	KEF-1	36 LBS	CURB	23.000'V X 23.000'L X 20.000'H VENTED HINGED.						
	2	# 2	KEF-2	36 LBS	CURB	23.000'V X 23.000'L X 20.000'H VENTED HINGED.						
Г	3	# 3	2ADII	104 LRS	CURR	59.500°V X 91.000°L X 14.000°H INSULATED.						



31 7/8"
TOP VIEW

		EXH	AUST	FAN	INFORMATION - JOB#69	67115												
	\bigvee	FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	НР	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1111	- 11	1	KEF-1	1	DU85HFA	CAPTIVEAIRE	2293	1.100	1577	TEAD-ECM	1.000	0.7000	1	115	11.6	726 FPM	126	16.9
// / /	-]]	2	KEF-2	1	DU85HFA	CAPTIVEAIRE	1462	1.000	1270	TEAD-ECM	1.000	0.3660	1	115	11.6	463 FPM	126	10.1
///																		_



(20T)

SHOWROOM-DURHAM-R4

HUTCHINS

DRAWN BY:

Geer C, 27[.]

408 Wes Durham,

DATE: 10/28/2024

DWG.#: 6967115

SCALE: 1/2" = 1'-0"

MASTER DRAWING

REVISIONS

DESCRIPTION DATE:

OM hins Showroc a restaurant upfit Hutchins

408 W Geer St. Durham, NC 27701

THURTH CAROLAL

LIGHTHOUSE

ENGINEERING,PA 以 No. C-2714

WITH CAROUS

SEAD **_28385**′

MECHANICAL ELECTRICAL PLUMBING

701 W Trinity Ave #117 Durham, NC 27701

for permit 10/11/24

Mechanical **Details**

M005

SHEET NO.

DOAS/RTU FAN SCHEDULE - JOB#6967115
FAN INFORMATION MANUFACTURER BLOVER RETURN OUTSIDE AIR CFM OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY

IN MAX CFM OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY

IN MISTURE REMOVAL TO BY OUTSIDE AIR OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY

IN MISTURE REMOVAL RATE

OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY

IN MISTURE REMOVAL RATE

OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY

IN MISTURE REMOVAL RATE

OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY

OUTSIDE AIR MIXED AIR LEAVING AIR LEAVING AIR LEAVING AIR LEAVING AIR CAPACITY

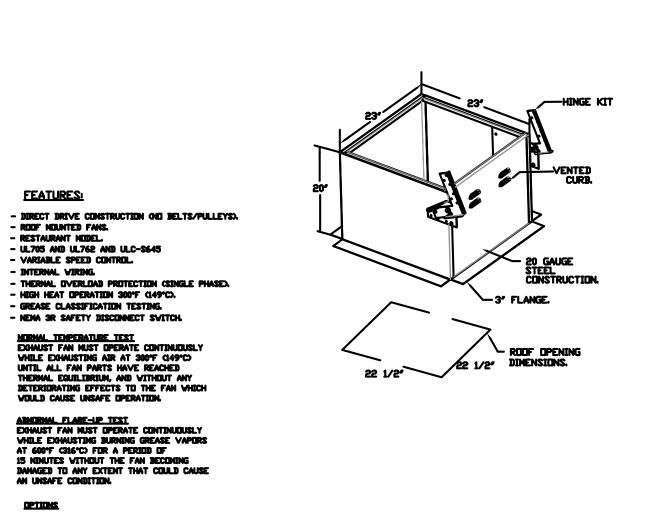
OUTSIDE AIR MIXED AIR LEAVING AIR CAPACITY

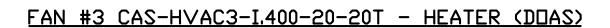
OUTSIDE AIR MIXED AIR LEAVING AIR LE CAS-HIVAC3-I.400-20-20T CAPTIVEAIRE 20P-3 0 3250 3250 2725 0.500 3.00 3 208 81.5A 90A 82.5° 77.2° 82.5° 77.2° 54.4° 54.5° 25.3 MBH 99.3 MBH 18.2 6.0 70.0° 60.4° 56.2 MBH 129.6 MBH 137.8 LBS/HR NATURAL 327573 265334 70° F 3 DOAS 1 1,2,3,4,5,6,7,8,9,10,11,12,13,14 7 IN. W.C. - 14 IN. W.C. NOTES!

1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED DIL SENSOR. DIGITAL DR STAGED SCROLL NOT AN APPROVED EQUAL.
2. DIRECT DRIVE PLENUM BLOVER. BELT DRIVEN BLOVERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOV PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE, TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATIOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS ODISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2° EXTERIOR DUAL—WALL CONSTRUCTION W/ R-13 INSULATION—MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81X EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE, 154 TURNDOWN WITH NG AND 124 TURNDOWN WITH LP
19. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE

<u>FEATURES:</u>

VARIABLE SPEED CONTROL.





1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL

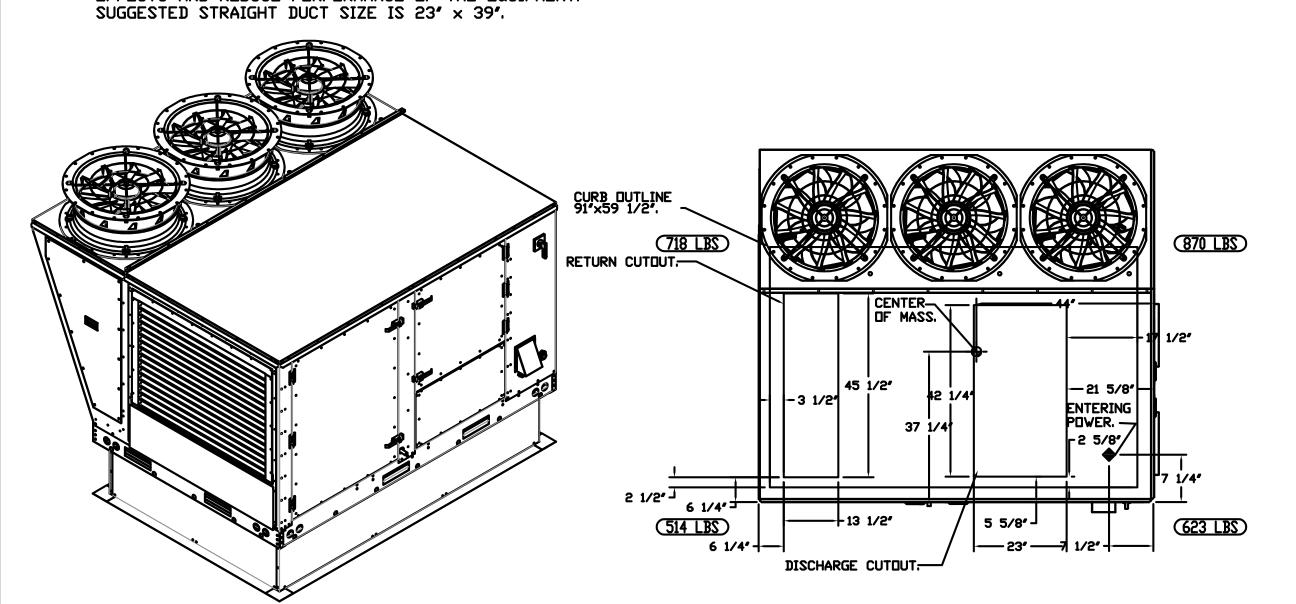
OR DUTSIDE AIR FAN.

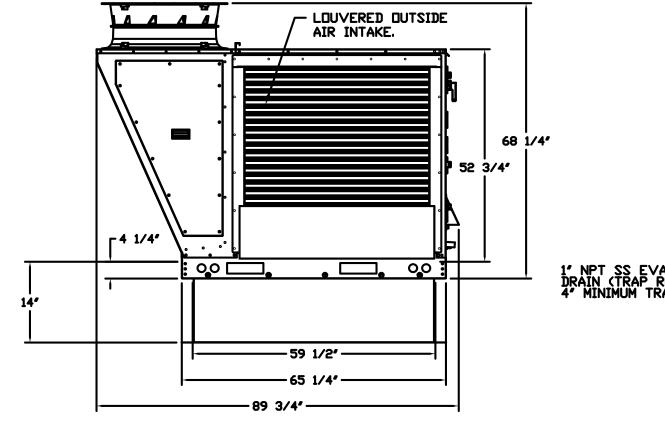
2. DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2' SMALLER THAN CURB

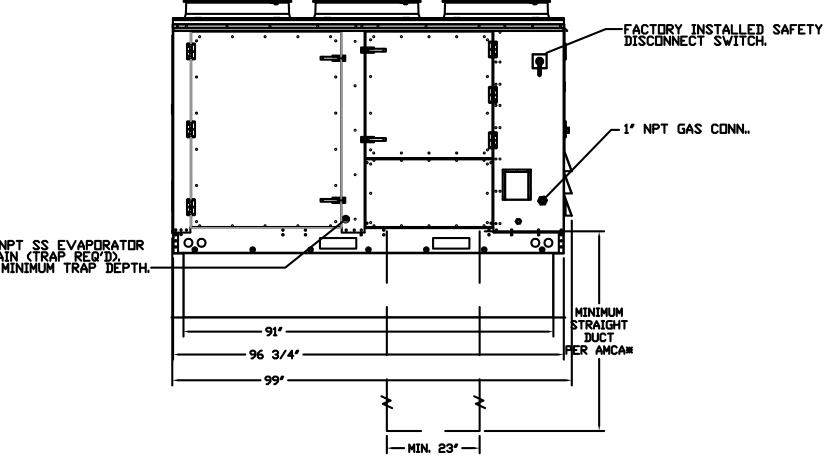
DIMENSIONS IN BOTH DIRECTIONS. 4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

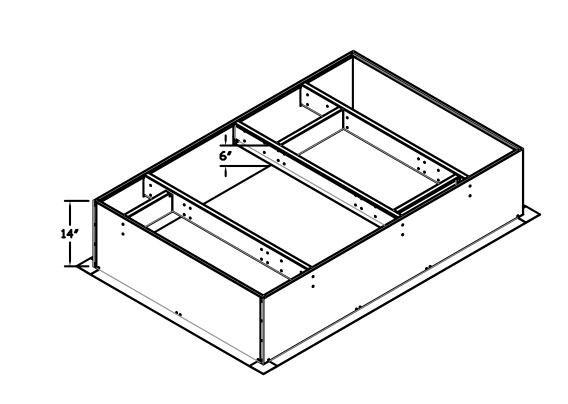
5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

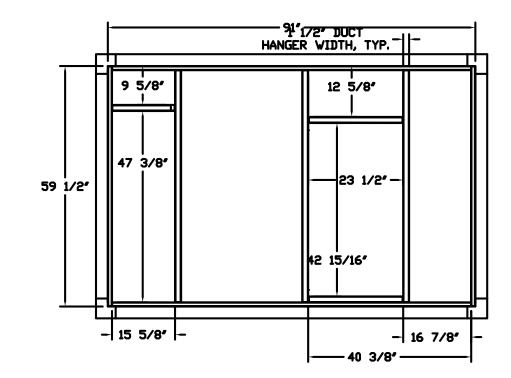
> *NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.











REVISIONS DESCRIPTION DATE:

> 701 W Trinity Ave #117 Durham, NC 27701 for permit 10/11/24

HINTH CAROLA

LIGHTHOUSE ENGINEERING,PA No. C-2714

hins Showro Hutchins

408 W Geer St. Durham, NC 27701

ham, HUTCHINS 408 Dur **DATE:** 10/28/2024

Geer 3, 27

DWG.#:

6967115

-DURHAM-R4

SHOWROOM

DRAWN BY:

SCALE: 1/2" = 1'-0"

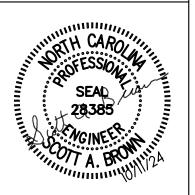
MASTER DRAWING

SHEET NO.

M006

Mechanical

Details





701 W Trinity Ave #117 Durham, NC 27701

for permit 10/11/24

Hutchins Showroc
a restaurant upfit
408 W Geer St.
Durham, NC 27701

Mechanical Demo Plan - 1st Floor

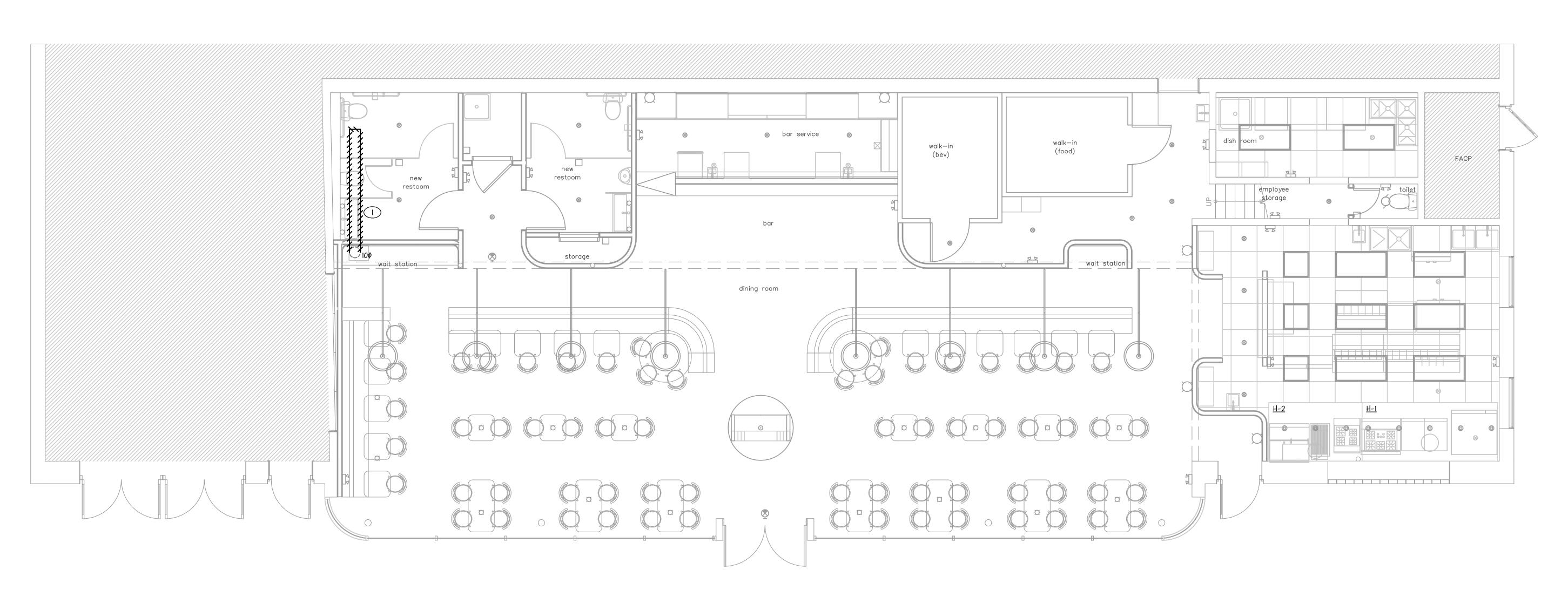
M101

TAGGED NOTES - THIS SHEET

DEMO EXISTING DUCTWORK AS SHOWN.

MECHANICAL NEW PLAN GENERAL NOTES:

EXISTING EQUIPMENT, GRILLES, DUCT ARE SHOWN FAINT AND DASHED, NEW AND RELOCATED ITEMS ARE SHOWN BOLD IN NEW LOCATION.



MECHANICAL DEMO -1ST FLOOR PLAN 1/4" = 1'-0"

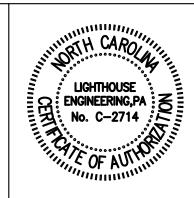
MECHANICAL NEW PLAN GENERAL NOTES:

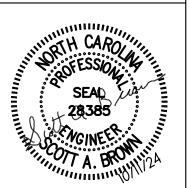
DEMO EXISTING DUCTWORK AS SHOWN.

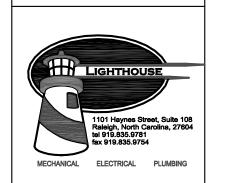
EXISTING EQUIPMENT, GRILLES, DUCT ARE SHOWN FAINT AND DASHED, NEW AND RELOCATED ITEMS ARE SHOWN **BOLD** IN NEW LOCATION.

open to below existing mezzanine dining area

MECHANICAL DEMO -2ND FLOOR PLAN 1/4" = 1'-0"









for permit 10/11/24

Hutchins Showroo a restaurant upfit 408 W Geer St. Durham, NC 27701

Mechanical Demo Plan - 2nd Floor

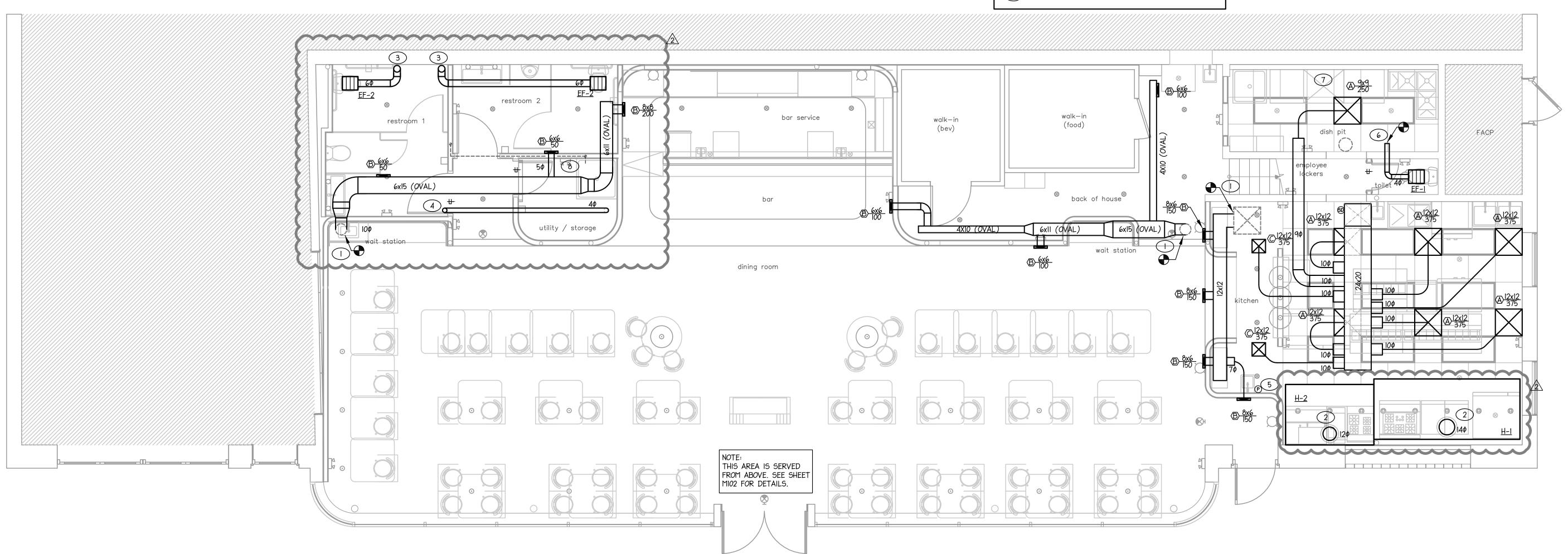
	REFRIGERANT CALCULATION										
UNIT DESIG.	ROOM VOLUME (CUBIC FEET)	R-442A LBS PER 1,000 CUBIC FEET (PER NCMC TABLE 1103.1)	ALLOWABLE REFRIGERANT	R-442A IN SYSTEM							
WALK-IN BEV	544	21	II.4 LBS.	3 LBS.							
WALK-IN FOOD	544	21	II.4 LBS.	3 LBS.							

BLDG AIR BALANCE SUMMARY OUTSIDE AIR									
UNIT NO.	OUTSIDE AIR (CFM)	EXHAUST AIR (CFM)							
K	ITCHEN								
KEF-I	1	2293							
KEF-2	-	1462							
DOAS-I	3250	-							
KITCHEN TOTAL	3250	3755							
KITCHEN BALANCE = 3250	- 3755 = 505 (CFM NEGATIVE							
KITCHEN TRANSFER AIR	1	5 <i>0</i> 5							
EF-I	-	80							
EF-2 (X2)	-	300							
RTU-1,2	1000	1							
TOTALS	1000	885							
BUILDING BALANCE = 1000	- 885 = 115 CF	M POSITIVE							

EXHAUST CALCULATIONS
KITCHEN: = (397 SQFT) X (.7 CFM/SQFT EXHAUST) = 278 CFM
H-1,2 PROVIDE 3764 CFM OF EXHAUST

TAGGED NOTES - THIS SHEET

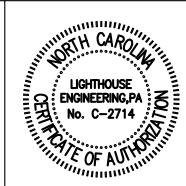
- (I) CONNECT NEW DUCTWORK TO EXISTING AS SHOWN.
- 2 KITCHEN HOOD EXHAUST DUCTWORK UP TO KEF-I AND KEF-2 ON ROOF ABOVE.
- 3 DUCTWORK UP TO LEVEL ABOVE.
- 4 4" WATER HEATER CONCENTRIC VENT TO LEVEL
- 5 REMOTE FIRE SUPPRESSION SYSTEM PULL STATION. VERIFY EXACT LOCATION W/ KITCHEN EQUIPMENT SUPPLIER & LOCAL AHJ.
- 6 CONNECT BATH EXHUAST DUCT TO EXISTING EXHUAST DUCT. FIELD VERIFY EXACT LOCATION. EXTEND DUCTWORK AS REQUIRED.
- 7 LOW TEMP, CHEMICAL TYPE DISHWASHER. NO HOOD REQUIRED.
- 8 CONDENSATE PIPING FROM ABOVE TO MOP SINK.

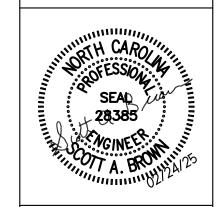


MECHANICAL NEW PLAN GENERAL NOTES:

I. EXISTING EQUIPMENT, GRILLES, DUCT ARE SHOWN FAINT AND DASHED, NEW AND RELOCATED ITEMS ARE SHOWN **BOLD** IN NEW LOCATION.











for permit 10/11/24

02/21/2025

Hutchins Showrc 408 W Geer St. Durham, NC 27701

Mechanical Plan - 1st Floor

TAGGED NOTES - THIS SHEET

- () EXISTING HVAC IN THIS AREA TO REMAIN AS IS.
- 2 ENSURE RTU HAS AN EXISTING DUCT SMOKE DETECTOR. INSTALL NEW DETECTOR IF ABSENT.
- (3) CONNECT NEW DUCTWORK TO EXISTING AS SHOWN.
- 4 TERMINATE DUCTWORK AT ROOF ABOVE WITH GRAVITY VENTILATOR.
- 5 EXISTING MECHANICAL EQUIPMENT ON ROOF ABOVE. EXACT LOCATIONS TO BE FIELD VERIFIED.
- (6) NEW MECHANICAL EQUIPMENT ON ROOF ABOVE. COORDINATE EXACT LOCATIONS IN FIELD WITH EXISTING EQUIPMENT. MAINTAIN 101 FROM ANY INTAKES AND EXHAUST.
- 7 KITCHEN HOOD EXHAUST FAN ON ROOF ABOVE. ENSURE MINIMUM 101 CLEARANCE TO ALL INTAKES.
- 8 WATER HEATER CONCENTRIC VENT TO TERMINATE AT ROOF ABOVE.
- 9 CONDENSATE PIPING FROM MINI-SPLITS DOWN TO MOP SINK BELOW.
- (10) INSTALL UNIT HIGH ON WALL, WHILE MAINTAINING MFG CLEARANCES ABOVE. ALL CONDENSATE AND REFRIGERANT PIPING TO BE RUN WITHIN WALL CAVITY BEHIND UNIT.

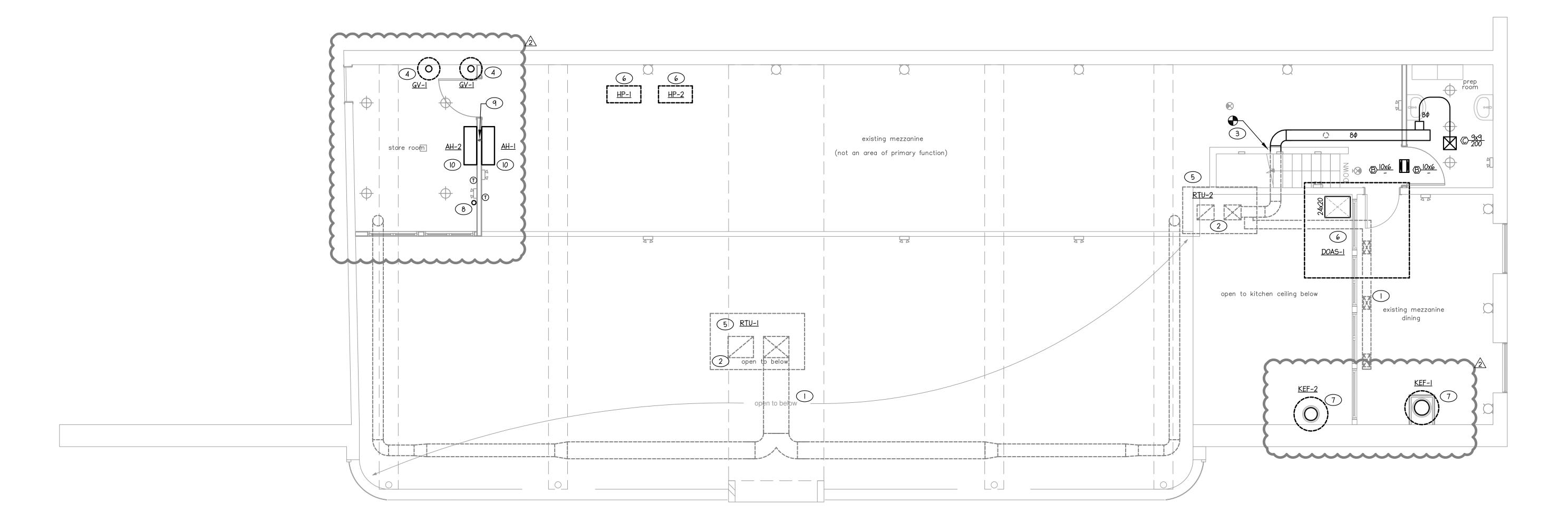
MECHANICAL NEW PLAN GENERAL NOTES:

I. EXISTING EQUIPMENT, GRILLES, DUCT ARE SHOWN

ARE SHOWN **BOLD** IN NEW LOCATION.

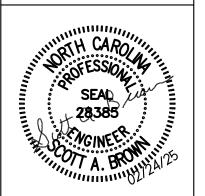
FAINT AND DASHED, NEW AND RELOCATED ITEMS

	MECHANICAL VENTILATION CALCULATIONS												
HVAC Unit	Location	Zone	Occupant Density	Outoor Air	Zone	Outdoor Air	Floor Area	Initial Zone	Zone Area Distribution	Required Zone	Design Zone		
		Occupancy	(People/1000 sf)	CFM/Person	Population	CFM/SQFT		Outdoor Airflow	Effectivness	Outdoor Airflow	Outdoor Airflow		
				(Rp)	(Pz)	(Ra)	(Az)	(Vbz)	(Ez)	(Voz)	(CFM)		
RTU-1&2	DINING	Dining	70	7.5	51	0.18	725	513.0	0.8	641.3			
	BAR	Dining	70	7.5	10	0.18	135	99.3	0.8	124.1			
	WALKWAY	Corridor	0	0	0	0.06	1000	60.0	0.8	75.0			
	MEZZ. DINING	Dining	70	7.5	4	0.18	50	39.0	0.8	48.8			
	MEZZANINE	Dining	70	7.5	7	0.18	100	70.5	0.8	88.1			
										977.3	1000		
			Calculations	are base on t	he 2018 NCN	1C Table 403.3	3, Vbz = RpP	z + RaAz, Voz = Vb	z/Ez				













for permit 10/11/24

02/21/2025

Hutchins Showrc

408 W Geer St. Durham, NC 27701

Mechanical Plan - 2nd Floor