

## 1 HVAC PLAN M1 SCALE: 1/4" = 1'-0"

EQUIPMENT	TAG	SPECIFIED MFG.	PRICE QUOTE & ORDER THRU	EQUIPMENT PROVIDED BY	ROOF CURB PROVIDED BY	CHECK TEST & BALANCE	EQUIPMENT INSTALLED BY	EQUIPMENT STARTUP BY	1ST YEAR LABOR WARRANTY					UIRED OUTSIDE		REQUIRED E BASED Of		<ol> <li>HVAC CONTRACTOR SHALL PROVIDE FIELD APPLIED FOIL VAPOR BARRIER INSULATION TO ALL DIFF</li> <li>RTU AND EXHAUST FAN ROOF PENETRATIONS SHALL BE COORDINATED WITH STRUCTURAL.</li> <li>MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL VERTICAL AND HORIZONTAL OFFSETS (NOT \$</li> </ol>
EXHAUST FANS	EF-1, EF-2, EF-3	CAPTIVEAIRE		PART OF FRANCHISEE			MECH. CONTR.	MECH. CONTR.	MECH. CONTR.	OCCUPANCY TYPE	GROSS FLOOR AREA (S.F.)	PEOPLE	CFM PER	CFM PER	CFM	CFM PER	CFM	<ol> <li>REFERENCE ALL DETAILS ON SHEETS M3 THROUGH M5 FOR EQUIPMENT INSTALLATION.</li> <li>ALL ROOF CURBS SHALL BE SEALED AIR TIGHT FOR BUILDING PRESSURE TESTING.</li> </ol>
KITCHEN HOOD	HOOD 1, HOOD 2	CAPTIVEAIRE		PART OF FRANCHISEE	S EQUIPMENT PACKA	θE	MECH. CONTR.	MECH. CONTR.	MECH. CONTR.				PERSON	S.F.	REQUIRED	S.F./FIXTURE	EXHAUSTED	<ul> <li>MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REFRIGERANT PIPING. PLUMBING CONTRACTOR V</li> <li>SEE PROJECT MANUAL FOR BUILDING MATERIALS SPECIFICATIONS.</li> </ul>
HOOD FIRE SYS.	HOOD 1, HOOD 2	CAPTIVEAIRE		PART OF FRANCHISEE	S EQUIPMENT PACKA	)E	CAPTIVEAIRE	CAPTIVEAIRE	CAPTIVEAIRE	DINING	929	46**	7.5	0.18	513	0	0	<ol> <li>B. DUCTWORK TO BE INSTALLED TIGHT TO BOTTOM OF STRUCTURE THROUGHOUT. COORDINATE WOL</li> <li>9. CLEAN ALL DUCTWORK BOTH INSIDE AND OUT BEFORE START-UP OF ROOFTOP UNITS.</li> </ol>
DUCT HEATER	DH-1	REDDI	CARRIER	CARRIER	N/A	CAPTIVEAIRE	MECH. CONTR.	MECH. CONTR	MECH. CONTR.	OFFICE	33	1	5.0	0.06	7	0	0	<ol> <li>FLEXIBLE DUCT LIMITED TO 5'-0" MAX.</li> <li>PROVIDE TURNING VANES IN ALL 90 DEG ELBOWS IN SUPPLY AND RETURN DUCTWORK.</li> </ol>
ROOFTOP UNITS	RTU-1, RTU-2	CARRIER	CARRIER	CARRIER	CARRIER	CAPTIVEAIRE	MECH. CONTR.	MECH. CONTR	MECH. CONTR.	KITCHEN	1242	6	0	0	0	0.7	870	12. THE ANSUL FIRE SUPPRESSION SYSTEM, (LIQUID SYSTEM, TYPE-R102, SEE DETAIL 5/M3), IS PRE-PIP
GRILLES/DIFFUSERS	-	KRUEGER	HJC	HJC	N/A	N/A	MECH. CONTR.	MECH. CONTR.	MECH. CONTR.	VESTIBULE	98	2*	0	0	0	75*	150	KEY NOTES
<ul> <li>THE HVAC EG FOR NATIONA</li> <li>THE MECHAN</li> <li>UPON PLACIN</li> <li>THE CONTRA</li> </ul> CARRIER NATIONAL CONTRACT CONTRA	QUIPMENT AND MATER AL ACCOUNT PRICING IICAL CONTRACTOR IS IG AN ORDER THE HV/ CTOR IS RESPONSIBL	RIALS OUTLINED IN THI & SHIPPING REFER TO RESPONSIBLE FOR C AC CONTRACTOR WILL E FOR THE COMPLETE - PROVIDED RO	E RESPONSIBILITY MA NATIONAL VENDORS RDERING, DELIVERY, RECEIVE A CONTRA INSTALLATION OF TH OF TOP EQUIPM	AND STORAGE OF THI CTOR ASSISTANCE MA HE EQUIPMENT AND M/	DED AND INSTALLED F E EQUIPMENT AND MA NUAL FROM THE CAR ATERIALS PACKAGE.	TERIALS PACKAGE. RIER NATIONAL ACCOL	INTS.	K	AL ACCOUNTS".	TOTAL * RA	2366 ATE BASED ON 7 CCUPANT LOAD		ER CLOSET OR UR		524 STROOM FIXTUR	RES	779	Image: Construction of the structure of the
		S - PROVIDED AI																DUCTWORK INSULATION: ALL RETURN AND SUPPLY DUCTWORK SHALL BE WRAPPED WITH 1 1/2 LBS
INCLUDES ALI	L REGISTERS, GRILLE	S & DIFFUSERS WITH	SQUARE TO ROUND T	RANSITIONS WHERE R	EQUIRED AS SPECIFI	D ON THESE PLANS &	SPECIFICATIONS.											6 MINIMUM 1" UNDERCUT DOOR FOR PROPER RETURN AIRFLOW.
	ARRIER NATIONAL ACCOUNTS - PROVIDED CURB PACKAGE INCLUDES ROOF CURBS FOR RTU-1 & RTU-2, ROOF CURBS ARE TO BE ASSEMBLED & INSTALLED ON SITE.										0015	TSIDE AIR REQUIREMENTS					7 RETURN/SUPPLY DUCTWORK DOWN FULL SIZE FROM AIR HANDLING EQUIPMENT WITH NEOPRENE F	
				BLED & INSTALLED ON	SITE.					TAG	CFM S	SUPPLY	CFM RETURN	OSA	TRANS	FER AIR C	FM EXHAUST	AS SHOWN. SEE DETAIL 1/105.       8 VOLUME DAMPER. TYPICAL FOR ALL.
				HESE PLANS & SPECIF	ICATIONS.					RTU-1	34	400	2380	1020		n		FLEX DUCTWORK CONNECTION TO DIFFUSERS/GRILLES TYPICAL. FLEX DUCTWORK TO BE INSULAT
				SYSTEMS PACKA		RT OF THE ERANCHIS	EE'S EOLUPMENT PACK		AND INSTALLED BY	RTU-2		000	3500	1500	(	0	-	10 EF-3: PROVIDE ROOF MOUNTED TOILET EXHAUST FAN WITH BACK DRAFT DAMPER. MAINTAIN 10'-0"
				ONTACT INFORMATION				AGE. COORDINATE		EF-1		-	-	-		-	1100	ADDITIONAL INFORMATION.
		SUPPRESSION S								EF-2		-	-			-	1000	ADDITIONAL INFORMATION.
SUPPLY LINES	S, INSTALLATION OF F	ULL STATION AND FIR	E SUPPRESSION AGE	THE KITCHEN EXHAUS	RE PROVIDED BY CAP	IVEAIRE UNDER THE F	RANCHISEE'S EQUIPM	ENT PACKAGE.		EF-3		-	-	-		-	300	12 REMOTE SENSORS AND THERMOSTATS: REMOTE SENSORS AND THERMOSTATS TO BE MOUNTED V PRIOR TO PERFORMING WORK.
	ARE <u>NOT</u> INCLUDED: S EST IF REQUIRED IS N		AT MAYBE REQUIRED	) BY STATE/LOCAL AUT	HORITIES, INSTALLAT	ON OF GAS SHUNT TY	PE VALVE, ELECTRICA	L INTERLOCK TO E	HAUST FAN BY OTHERS,									(13) EXTEND SHEET METAL RETURN AIR PLENUM UP FROM GRILLE AND CONNECT TO RETURN AIR DUCT
CAPTIVEAIRE -	PROVIDED THIRI	D PARTY CHECK,	TEST & BALANC	E PACKAGE						TOTAL	01	000	5880	2520		n	2400	$\sqrt{14}$ MANUAL PULL STATION FOR ANSUL FIRE SUPPRESSION SYSTEM. VERIFY WITH LOCAL AUTHORITY N
	BUILDING AIR BALANO 'S EQUIPMENT PACKA		R CONDITIONING EQU	JIPMENT, TO ENSURE (	CORRECT KITCHEN HO	OD CAPTURE & OCCU	PANT COMFORT PROV	IDED BY "CAPTIVE	RE" UNDER THE				5000	2020			2400	EXACT LOCATION OF ALL HOODS SHALL BE DETERMINED BY THE KITCHEN EQUIPMENT DRAWINGS
HVAC/KITCHEN	VENTILATION SE	RVICES AND WA	RRANTY PACKA	GE							DTES:							(16) <u>KITCHEN HOOD SYSTEM, EF-1, &amp; EF-2:</u> INSTALL KITCHEN EXHAUST SYSTEM FROM INDICATED VENDO CATCH PAN, WIRE WAYS, INCANDESCENT LIGHT FIXTURE RATED FOR EXHAUST HOODS, EXHAUST F
MECHANICAL CONTRACTOR WILL PROVIDE THE HVAC SERVICES AND WARRANTY PACKAGE.							<ol> <li>BUILDING AIR BALANCE: (120) CFM POSITIVE PRESSURE</li> <li>KITCHEN AIR BALANCE: (750) CFM NEGATIVE TO DINING ROOM</li> </ol>							INSTALL KITCHEN HOOD EXHAUST DUCTWORK AS INDICATED ON PLANS. DUCTWORK SIZES AND LA				
<ul> <li>HVAC SERVICES AND WARRANTY PACKAGE: SEE MATRIX ABOVE.</li> <li>MECHANICAL CONTRACTOR IS RESPONSIBLE TO CORRECT INSTALLATION DEFICIENCIES THAT OBSTRUCT THE COMPLETION OF THE BUILDING AIR BALANCING AND HVAC SERVICES WARRANTY PACKAGE.</li> </ul>														10 HOOD SYSTEM AND DUCT PROVIDED BY CAPTIVEAIRE, SEE SHEETS M4.1-M4.7, COORDINATE ANY M				

DIFFUSER BACKS.

NOT SHOWN) FOR DUCT AND EQUIPMENT INSTALLATION.

TOR WILL PROVIDE ALL CONDENSATE PIPING. ALL EQUIPMENT FURNISHED WITH PRE CHARGED LINE SETS. E WORK WITH OTHER TRADES TO AVOID CONFLICTS. MAINTAIN CLEARANCE ABOVE DUCT FOR INSULATION.

E-PIPED INTO HOOD BY HOOD MANUFACTURER AS PART OF THEIR PACKAGE. SEE "RESPONSIBILITY MATRIX."

FIGURATION. PROVIDE WITH ROOF CURB, ECONOMIZER, SMOKE DETECTORS, THERMOSTAT AND STAINLESS NAL INFORMATION. FIGURATION. PROVIDE WITH ROOF CURB, MOTORIZED OSA DAMPER, SMOKE DETECTORS, THERMOSTAT AND OR ADDITIONAL INFORMATION.

PMENT SHALL BE INTERLOCKED WITH THE DETECTOR TO SHUT DOWN THE UNIT. FURNISH AND INSTALL AN 2 LBS BLANKET INSULATION, WITH FOIL FACING.

ENE FLEX CONNECTORS. SUPPORT DUCTWORK TO RELEASE TENSION IN FLEX CONNECTORS. TRANSITION

ULATED WITH FOIL VAPOR BARRIER. FLEX DUCTWORK NOT TO EXCEED 5'-0" IN LENGTH. SEE DETAIL 4/M3. 10'-0" FROM ALL OUTSIDE AIR INTAKES. SEE SHEET M3 EQUIPMENT SCHEDULE AND DETAILS FOR

RICAL. WIRING BY ELECTRICAL CONTRACTOR. SEE SHEET M3 EQUIPMENT SCHEDULE AND DETAILS FOR

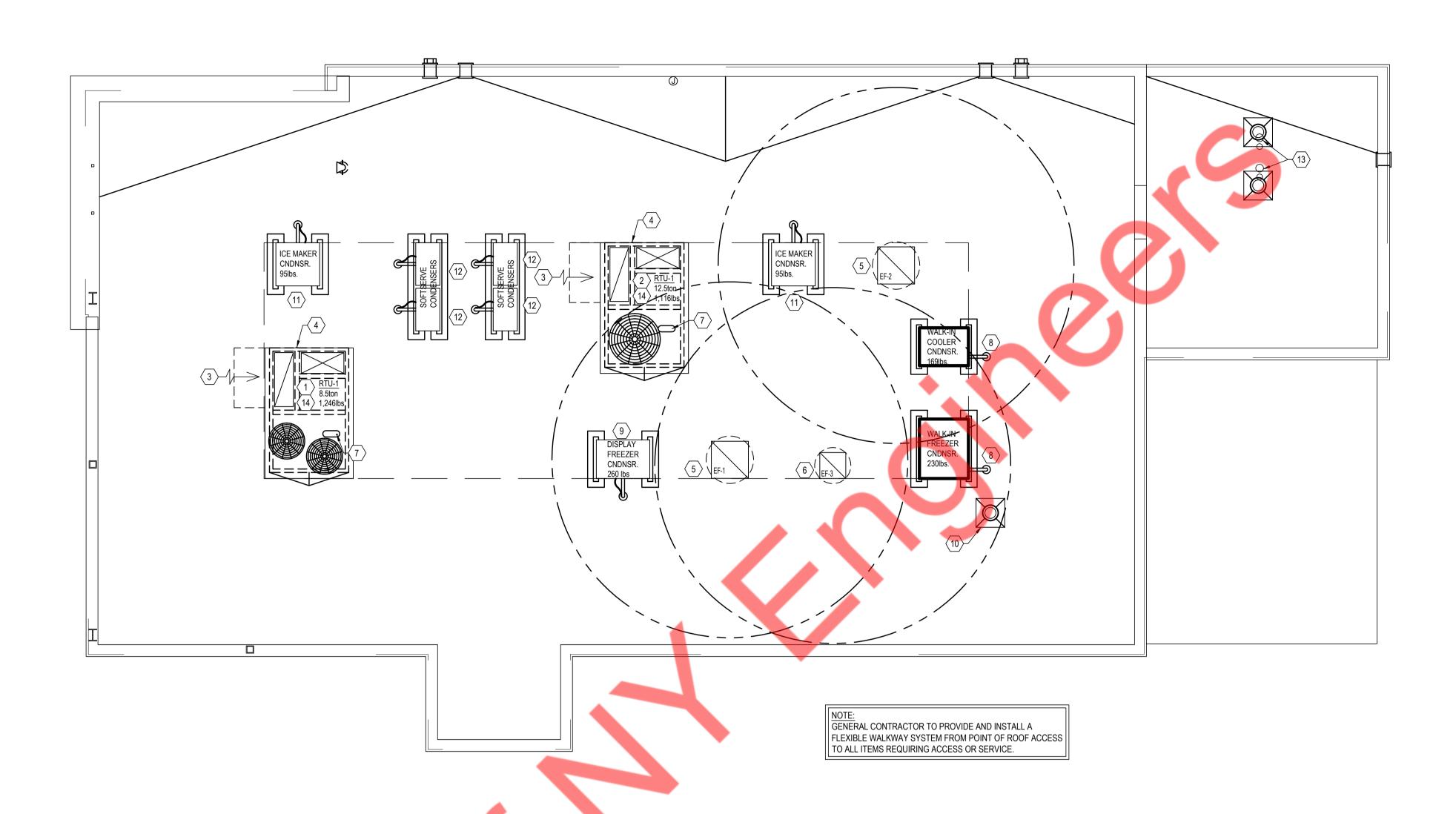
TED WHERE INDICATED. FIELD-VERIFY THE LOCATION WITH ARCHITECT, OWNER, AND ON-SITE CONDITIONS DUCT AS INDICATED.

RITY NUMBER OF PULLS, LOCATION, AND HEIGHT ABOVE FINISH FLOOR. SEE DETAIL 5/M3.

NGS AND EQUIPMENT CUT SHEETS. COORDINATE WITH ALL DISCIPLINES PRIOR TO INSTALLATION. ENDOR, THE PACKAGE TO INCLUDE THE STAINLESS STEEL EXHAUST HOOD, GREASE FILTERS, GREASE UST FAN, AND ROOF CURB.

ND LAYOUTS SHALL NOT BE MODIFIED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

NY MODIFICATIONS WITH HOOD VENDOR/CAPTIVEAIRE.







## GENERAL NOTES

- RTU AND EXHAUST FAN ROOF PENETRATIONS SHALL BE COORDINATED WITH STRUCTURAL PRIOR TO BEGINNING WORK.
   REFERENCE ALL DETAILS ON SHEET NUMBERS M3, M4 AND M5 FOR EQUIPMENT INSTALLATION.
   ALL ROOF CURBS SHALL BE SEALED AIR TIGHT FOR BUILDING PRESSURE TESTING.
- 6. THE MECHANICAL CONTRACTOR SHALL INSTALL ALL REFRIGERANT PIPING.

## KEY NOTES

1 ROOF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT RTU-1: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRUCTION OF TOP UNIT IN VERTICAL DISCHA
2 ROOF TOP UNIT RTU-2: PROVIDE NEW CARRIER ROOFTOP UNIT IN VERTICAL DISCHARGE CONSTRAINLESS STEEL HEAT EXCHANGER. SEE SHEET M3 EQUIPMENT SCHEDULE AND DETAILS
3 FRESH AIR INTAKE MAINTAIN 10'-0" CLEAR FROM EXHAUST OR VENTS.
4 CONDENSATE TRAP SEE DETAIL 2/P4.
5 EF-1 & EF-2: PROVIDE KITCHEN HOOD EXHAUST SYSTEM FROM INDICATED VENDOR. MAINTA
$\underbrace{6}_{\text{DETAIL 3/M3}} EF-3: PROVIDE ROOF MOUNTED TOILET EXHAUST FAN WITH BACK DRAFT DAMPER. MAINTAI DETAIL 3/M3 FOR ADDITIONAL INFORMATION.$
$\overline{7}$ GAS PIPING UP THROUGH ROOF CURB SEE SHEET P1 FOR CONTINUATION.
8 WALK-IN FREEZER/COOLER REFRIGERANT SYSTEM. COORDINATE INSTALLATION WITH OTH LOCATION.
9 DISPLAY FREEZER REFRIGERANT SYSTEM. COORDINATE MOUNTING LOCATION WITH OTHE
(10) PLUMBING VENT SEE DETAIL ON P4. MAINTAIN 10'-0" FROM ALL OUTSIDE AIR INTAKES.
(11) ICE MAKER REFRIGERANT SYSTEM. COORDINATE MOUNTING LOCATION WITH OTHER MECH
SOFT SERVE REFRIGERANT SYSTEM. COORDINATE MOUNTING LOCATION WITH OTHER MED BE EVEN WITH PARAPET.
(13) WATER HEATER VENT SEE DETAIL 8/P4. MAINTAIN 10'-0" FROM ALL OUTSIDE AIR INTAKES.
RTU MUST BE PROPERLY ALIGNED ON ROOF CURB TO ENSURE AIR SUPPLY AND RETURNS

MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND ROOF MOUNTED EQUIPMENT. MINIMUM OF 3'-0".
 COORDINATE ALL EQUIPMENT LOCATIONS AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR PRIOR TO BEGINNING WORK. USE SHOP DRAWINGS PROVIDED BY THE EQUIPMENT MANUFACTURER.

CONFIGURATION. PROVIDE WITH ROOF CURB, ECONOMIZER, SMOKE DETECTORS, THERMOSTAT AND STAINLESS TIONAL INFORMATION. CONFIGURATION. PROVIDE WITH ROOF CURB, MOTORIZED OSA DAMPER, SMOKE DETECTORS, THERMOSTAT AND S FOR ADDITIONAL INFORMATION.

TAIN 10'-0" FROM ALL OUTSIDE AIR INTAKES. REFER TO SHEETS M4.1 THRU M4.7 FOR ADDITIONAL INFORMATION. AIN 10'-0" FROM ALL OUTSIDE AIR INTAKES. REFER TO SHEETS M4.1 THRU M4.7 FOR ADDITIONAL INFORMATION.

HER MECHANICAL EQUIPMENT, MOUNTED BUILDING ROOF, SEE MANUFACTURES INSTALL INSTRUCTIONS FOR ER MECHANICAL EQUIPMENT ON ROOF TO MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

HANICAL EQUIPMENT ON ROOF TO MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ECHANICAL EQUIPMENT ON ROOF TO MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. TOP OF FAN TO

S ARE NOT OBSTRUCTED