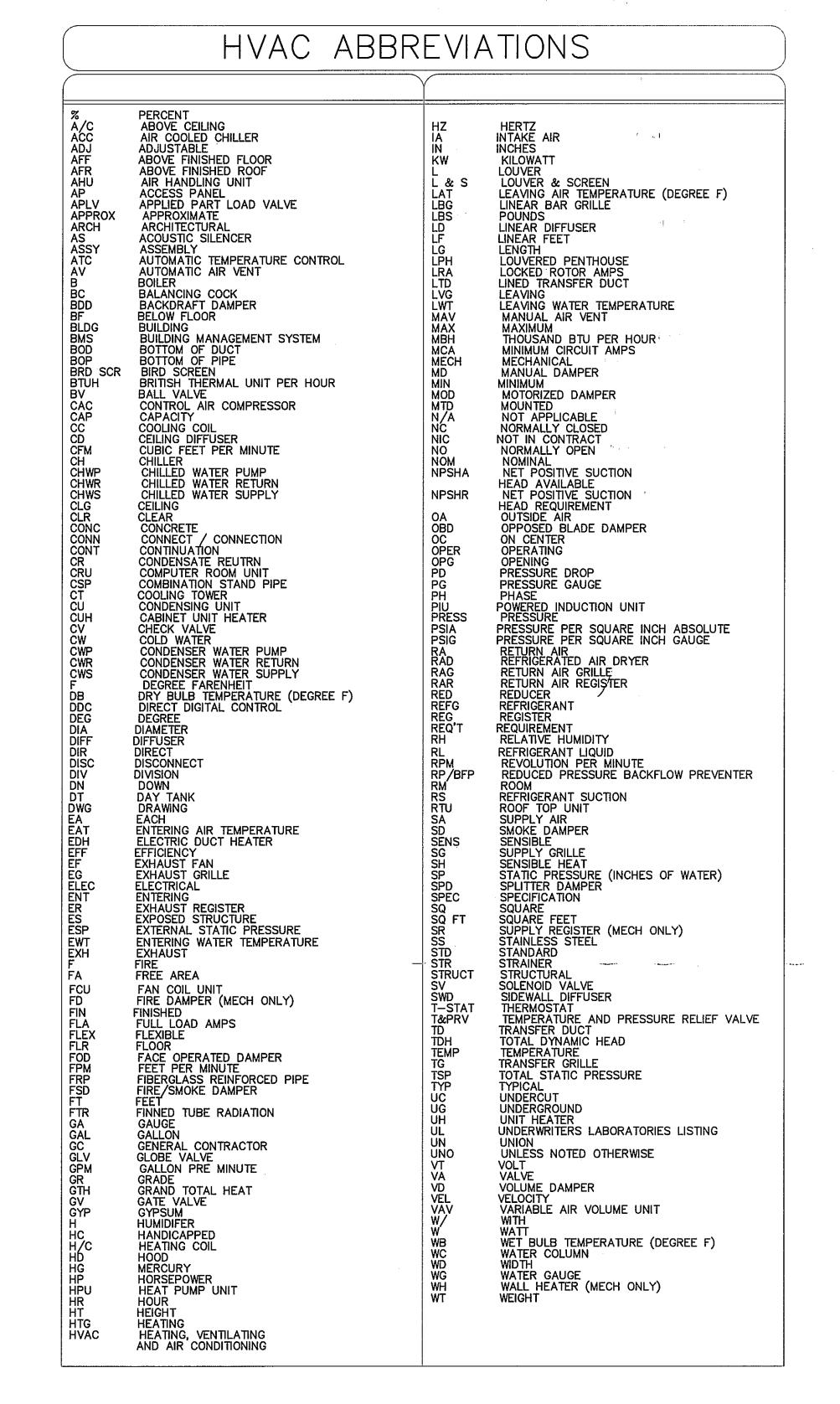
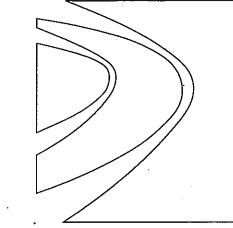
HVAC	SYMBOLS
(T)	THERMOSTAT
	DUCT SECTION RETURN/EXHAUST
	DUCT SECTION SUPPLY
<u>y 00x00 </u>	DUCT SIZE - FIRST FIGURE IS SIDE SHOWN
	LINED DUCTWORK
<u> </u>	MANUAL — DAMPER (MD)
<u> </u>	FLEXIBLE DUCT CONNECTION
	TYPICAL 90° LOW PRESSURE DUCT ELBOW (FURNISH AND INSTALL DOUBLE THICKNESS TURNING VANES)
	TYPICAL 45° LOW PRESSURE DUCT ELBOW
OE OE	TERMINATED OPEN — ENDED DUCT
X-x-x	24'x24' CEILING DIFFUSER (TYPE-NECK Ø-CFM)
✓×	RETURN (EXHAUST) AIR GRILLE
	SLOT DIFFUSER
	WALL MOUNTED PROPELLER FAN
	UNIT HEATER - HORIZONTAL
— — M OR MOD	MOTOR OPERATED DAMPER
	VIBRATION ISOLATOR
—— D ——	CONDENSATE DRAIN
FD	FIRE DAMPER
	SMOKE DAMPER
T,E	BRANCH ROUND DUCT W/ SPIN-IN-FITTING & MANUAL VOLUME DAMPER
	DUCT TURNED DOWN
	DUCT TURNED UP
⊠	FLEXIBLE DUCT
S	SENSOR
(SD)	SMOKE DETECTOR
OAC OAC-FD	OPENING ABOVE CEILING OPENING ABOVE CEILING WITH FIRE DAMPER
**********	DEMOLITION

1 to 1





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TENANT IMPROVEMENT ELLOW MUSHROOM 00 STUEBNER AIRLINE ROAD

SUITEG

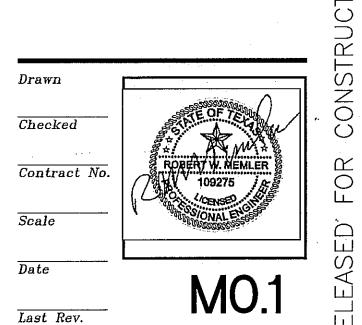
TEXA

SPRING, HARRIS

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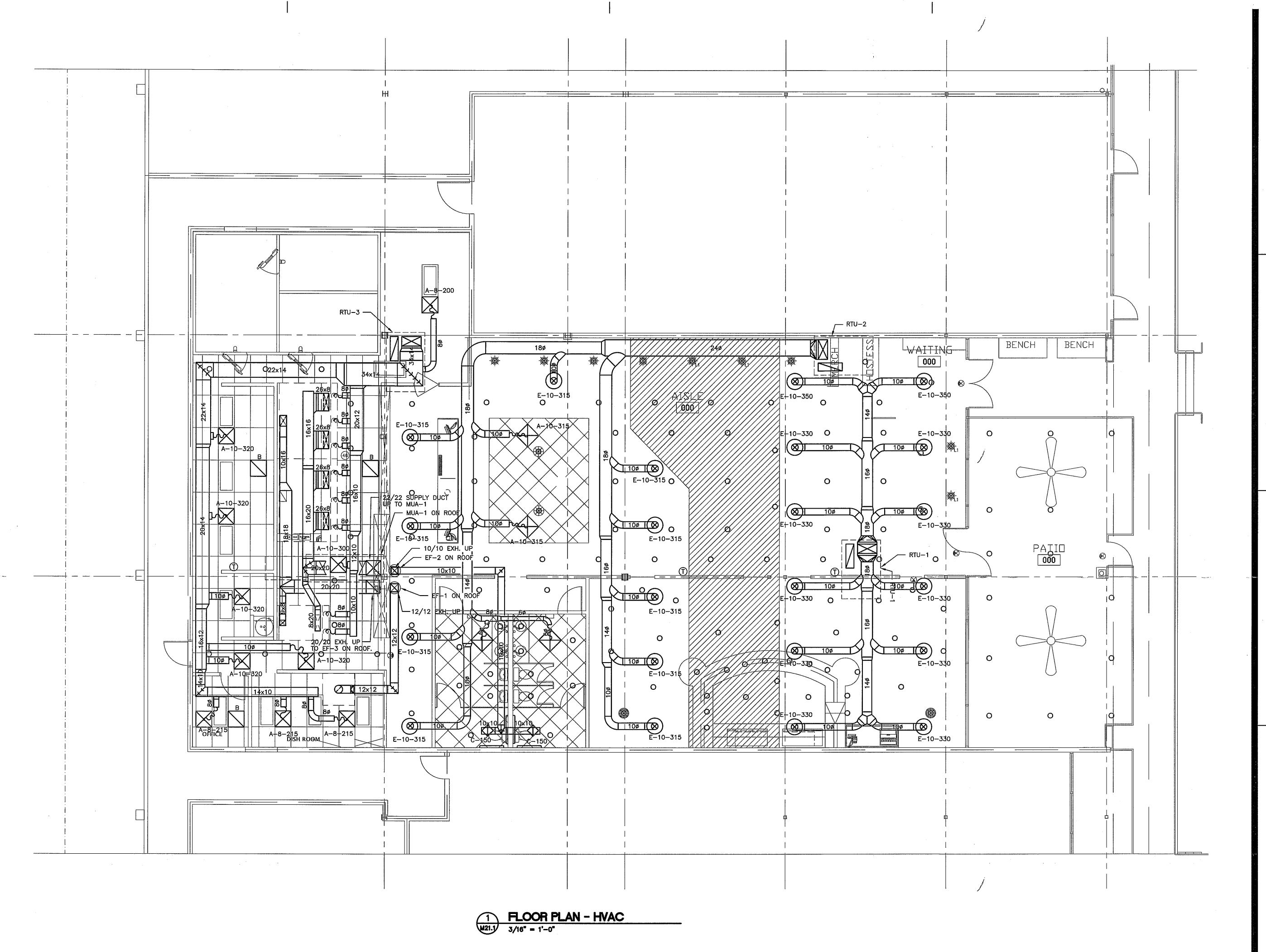
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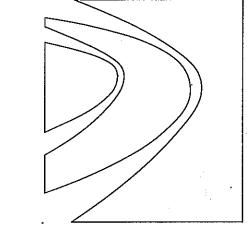
LEGENDS +
ABBREVIATIONS



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_FLOOR PLAN HVAC

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	7,4	BUILDING/KITCHEN E	EXHAUST A	AIR BALANCE	
AREA	SERVICE	EXHAUST AIR CFM		MAKE-UP AIR	APPLICABLE UNIT
KITCHEN	HOOD EXHAUST	18.67 L.F. @ 185 CFM/L.F.	3454 CFM		EF-3
KITCHEN	HOOD EXHAUST	4.33 L.F. @ 185 CFM/L.F.	802 CFM		EF-3
KITCHEN	HOOD SUPPLY	80% HOOD EXHAUST AIR		3508 CFM	MUA-1
KITCHEN	DISH. EXHAUST		600 CFM		EF-1
TOIL. ROOMS	TOILET EXHAUST		450 CFM		EF-2
KIT/DINING	ROOF TOP UNITS	117 PEOPLE @ 20 CFM/PERSON		1798 CFM	RTU-1, 2 & 3
			5306 CFM	5306 CFM	

MARK	SERVICE	WEIGHT	CFM	MIN.	HP	E.S.P.	COOLING			AGED ROOF TOP UNIT SCHEDU					MANUFACTURER & MODEL NUMBER	REMARKS	
				O. A. CFM		" H ₂ 0	TOT. CAP. BTUH	SEN. CAP. BTUH		A.T. WB	E.A.T.	INPUT	OUTPUT BTUH	'AFUE	MIN. EER		,,,
RTU-1	KITCHEN	1099	4000	1348	4.0	1.0	119,500	89,600	80.0	67.0	70.0.	180,000	148,000	80	11.5	CARRIER 48HCDD12	SEE NOTES
RTU-2	DINING ROOM	1099	4000	225	4.0	1.0	119,500	89,600	80.0	67.0	70.0.	180,000	148,000	80	11.5	CARRIER 48HCDD12	SEE NOTES
RTU-3	DINING ROOM	1099	4000	225	4.0	1.0	119,500	89,600	80.0	67.0	70.0.	180,000	148,000	80	11.5	CARRIER 48HCDD12	SEE NOTES
																	,
			<u> </u>							<u> </u>							

- 1. PROVIDE 14" HIGH FACTORY ROOF MOUNTING CURB, 2"-35% PLEATED FILTERS FOR ALL UNITS. MINIMUM EER (AT ARI STANDARD 210 CONDITIONS) TO BE EQUAL TO THAT SCHEDULED: SCHEDULED COOLING CAPACITY IS AT 95 AMBIENT.
- DISCONNECTS AND STARTERS BY MECHANICAL CONTRACTOR. ACCEPTABLE MANUFACTURERS: TRANE, CARRIER, McQUAY.
- 5. OUTSIDE AIR IS BASED ON AN OCCUPANCY OF 100 SQ. FT. PER PERSON AND 15 CFM PER PERSON I.A.W. SMC TABLE 403.3.
 6. RTU'S SHALL BE PROVIDED WITH 100% OUTSIDE AIR ECONOMIZER DAMPERS AND CONTROLS.

HVAC GENERAL NOTES

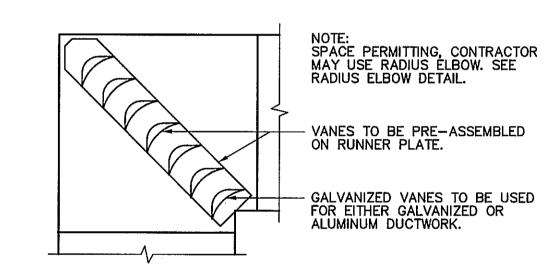
OPEN DRAIN

- 1. THESE GENERAL NOTES SHALL APPLY TO ALL MECHANICAL SHEETS.
- 2. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS INSULATE AS SPECIFIED; PROVIDE FLEXIBLE CONNECTIONS AS DETAILED AT ALL FANS AND ROOFTOP UNITS.
- 3. PROVIDE SHOP DRAWINGS SHOWING EXACT SIZES & LOCATIONS OF ALL ROOF & WALL OPENINGS REQUIRED PRIOR TO CONSTRUCTION. STRUCTURAL FRAMES AROUND ALL OPENINGS SHALL BE FURNISHED AND INSTALLED AS REQUIRED.
- 4. GAS PIPING FOR HVAC EQUIPMENT SHALL BE SUPPLIED COMPLETE INCLUDING ROUGH-IN, FINAL CONNECTIONS AND TESTING.
- 5. SUPPORT ALL DUCTS, PIPES & INSULATION, ETC. FROM BUILDING STRUCTURE WIT HSTEEL ANGLES AND 1", 24 GAGE STRAP.
- 6. HVAC CONTRACTOR SHALL LOCATE ROOF CURBS AND SUPPORTS FOR ROOF MOUNTED EQUIPMENT. ALL UNIT CURBS SHALL BE FACTORY
- REFER TO ARCHITECTURAL DRAWINGS FOR CLEARANCES, CEILING HEIGHTS AND DETAILS - SEE ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES AND EXPOSED DUCTS.
- 8. FLEXIBLE INSULATED DUCT SIZES ARE INSIDE DIMENSIONS -INSULATE AND VAPOR SEAL CEILING DIFFUSER NECKS, TRANSITIONS & "SPIN-IN" TAPS, NO SCOOPS.
- 9. PROVIDE SLEEVES AND FLASHINGS REQUIRED FOR PIPING AND DUCTWORK PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR ALL PIPING PENETRATING FINISHED WALLS & CEILINGS.
- 10. PIPE CONDENSATE DRAINS FROM ALL ROOF TOP UNITS TO NEAREST DOWNSPOUT AT REAR OF BUILDING.

			FAN :	SCHE	DULE	_					,	
DESIG	LOCATION	DESCRIPTION	SERVICE	CFM	EXT SP INCHES WC	APPROX MOTOR HP	TYPE DRIVE	NOM WHEEL DIA INCHES	MAX RPM	MAX TIP SPEED FPM	BASIS OF DESIGN	REMARKS
EF-1	AS SHOWN	PRV	DISHWASHER HOOD	600	0.50	0.333	BELT	-	_	-	BY OTHERS	SEE NOTES
EF-2	AS SHOWN	PRV	TOILET EXHAUST	450	0.25	0.25	BELT	_	_		GREENHECK GB-100	SEE NOTES
EF-3	AS SHOWN	UTILITY FAN	KITCHEN HOOD 2, 3, 4	4256	2.5	5.0	BELT		_	_	BY OTHERS	SEE NOTES
MUA-1	AS SHOWN	PRV	HOOD SUPPLY	3508	0.60	1.5	BELT	_	_	_	BY OTHERS	SEE NOTES
											,	

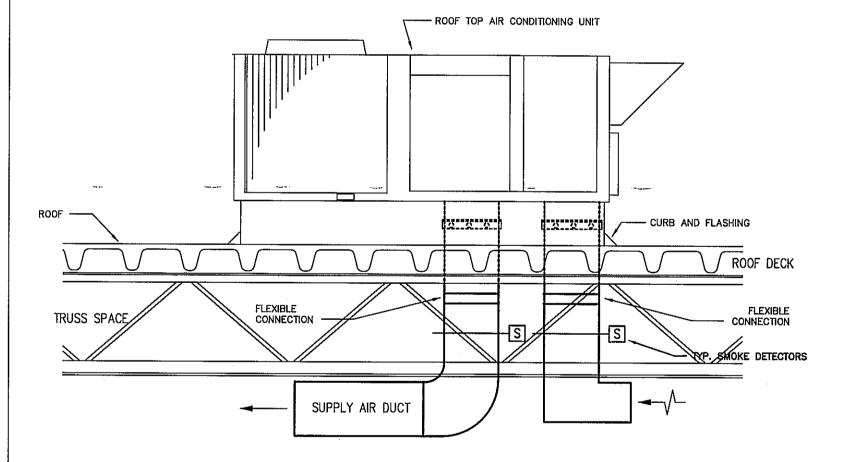
1. MOTOR EFFICIENCY SHALL BE EQUAL TO OR ABOVE GOULD E-PLUS. 2. PROVIDE EF-1 & 2 WITH FACTORY ROOF CURB.

3. INTERLOCK EXHAUST FANS EF-2 WITH ROOF TOP UNITS.



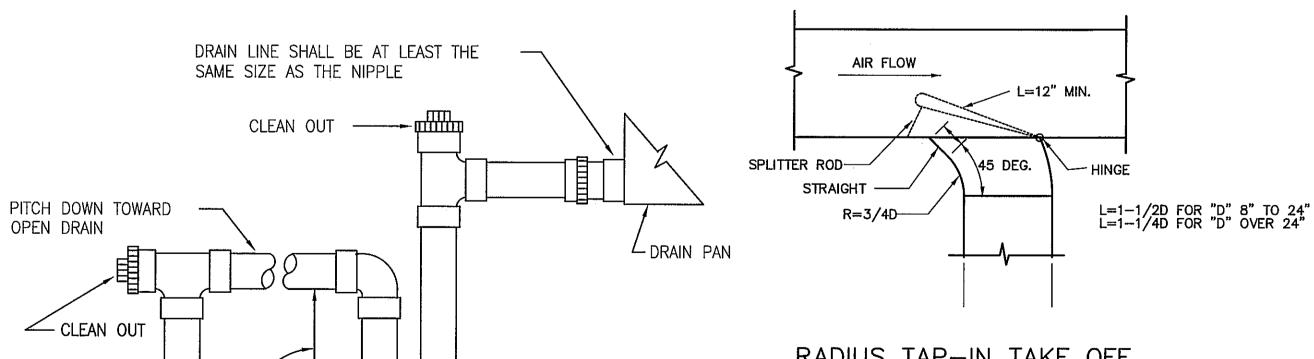
SQUARE ELBOW WITH DOUBLE THICKNESS VANES

	DIFFUSER SCHEDULE											
MARK	; A .	В	ſĊ	D	E.							
FACE SIZE	24x24	12x12	12x12	24x24	24*ø							
NECK SIZE	SHOWN	SHOWN	SHOWN	22x22	SHOWN							
FRAME	LAY-IN	LAY-IN	LAY-IN	LAY-IN	SURFACE							
DAMPER	O.B.D.	0.B.D.	0.B.D.	_	O.B.D.							
MANUFACTURER MODEL NO.	TITUS TMS	TITUS TMS	TITUS 50F	TITUS 50F	TITUS TMR							



ROOF TOP AIR CONDITIONING UNITS

NOT TO SCALE

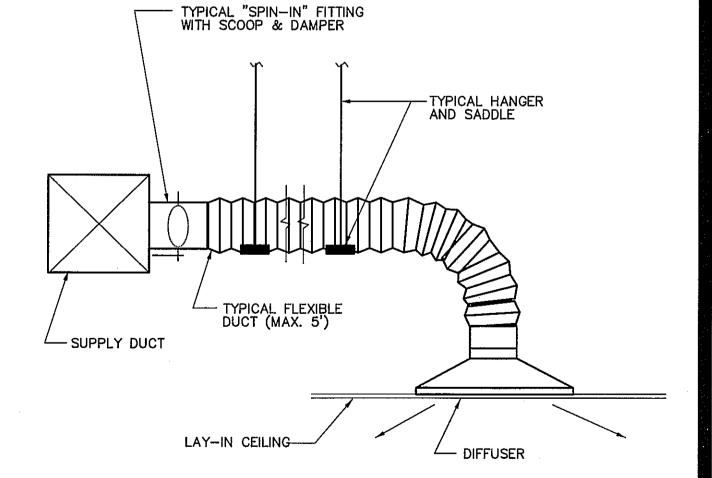


RADIUS TAP-IN TAKE OFF NOT TO SCALE



DEPTH OF SEAL MINIMUM 1 1/2 TIMES

FAN STATIC PRESSRE



TYPICAL FLEXIBLE DUCT TAKE-OFF DETAIL NOT TO SCALE

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DETAILS + SCHEDULES