



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

MECHANICAL VENTILATION BY ZONE CLASSIFICATION											
OCCUPANCY CLASSIFICATION	CONDITION AREA (SQFT)	CFM PER SQ. FT. BY AREA	MIN CFM BY AREA	OCCUPANT DENSITY (#/1000 SQFT)	OCCUPANTS	CFM PER OCCUPANT	MIN CFM BY OCCUPANT	TOTAL CFM	EXHAUST RATE (CFM PER FIXTURE/CFM)	FIXTURES	MIN EXHAUST CFM
SALES	213	0.12	26	15	4	8	30	56	0.0	0	0
BEAUTY/NAIL SALON	457	0.12	55	25	12	20	240	295	0.6	1	275
STORAGE	120	0.00	0	0	0	0	0	14	0.0	0	0
RESTROOM	51	0.06	30	0	0	0	0	0	75.0	1	75
CORRIDOR	172	0.06	30	0	0	0	0	10	0.0	1	0
OFFICE	67	0.06	30	5	1	5	5	9	0.0	0	0
TOTALS	1080	-	109	-	-	-	275	384	-	-	350

(EX)ROOF TOP UNIT SCHEDULE (BY LL)		
MFGR. & MODEL	CARRIER 50TCA07	
6 TON ELECT. ROOF TOP UNIT BY LANDLORD		
CFM	2400	S.P. EXIST
O.A. CFM	480	H.P. EXIST
UNIT WEIGHT	EXIST	VOLTAGE 208 3PH
		32.8 MCA, 50A MOCP
COOLING CAPACITY		
ENTERING W.B.	67	ELECT. HEATING CAPACITY
ENTERING D.B.	85	4.9KW
SENSIBLE M.B.H. 71.8		
TOTAL M.B.H. 79.4		

AIR BALANCE SCHEDULE CFM					
ITEM	OA	RA	SA	EA	PRESSURE
(EX)EF-1	-	-	-	75	-75
(EX)EF-2	-	-	-	275	-275
TU-1	480	-	2400	-	+384
TOTAL	480	-	2400	350	+130

IF YOU HAVE ANY QUESTIONS REGARDING THE MECHANICAL PLANS PLEASE CALL THE MECHANICAL DESIGNER.
DESIGNER: (KEVIN SANCIBRIAN) 214-343-9400
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(EX)DIFFUSER, GRILLE & REGISTER SCHEDULE (BY LL)							
EQUIP. LETTER	SERVICE	MOUNTING TYPE	DESCRIPTION	ACCESSORIES	FINISH	MANUF.	MODEL NO.
A	SUPPLY	LAY-IN	24"x24"	OBD	WHITE	TITUS	TMS
B	RETURN	LAY-IN	24"x24"	---	WHITE	TITUS	50F
C	EXHAUST	LAY-IN	24"x24"	---	WHITE	TITUS	50F

NOTE: ALL DIFFUSERS AND RETURN GRILLES SHALL HAVE A WHITE FINISH COORDINATE WITH TENANT'S CONTRACTOR TO SUPPLY

(EX)EXHAUST FAN SCHEDULE (BY LL)									
UNIT NO.	MANUF.	MODEL	CFM	S.P. IN. WC.	AMPS/WATTS	VOLTAGE	CONTROL	NOTES	
(EX)EF-1	-	-	-	-	-	-	-	-	4
(EX)EF-2	PENNBARRY	DX10S	275	0.125	82W	120/1/60	LT. SWITCH	1, 2, 3	

NOTE 1: LANDLORD TO PROVIDE & INSTALL BOTH EXHAUST FAN WITH BACKDRAFT DAMPER.
2: ROOF MOUNTED GENERAL EXHAUST FAN FURNISHED AND INSTALLED BY CONTRACTOR. PROVIDE WITH BACKDRAFT DAMPER AND BIRDSCREEN.
3: EXHAUST FAN TO BE CONTROLLED BY GENERAL LIGHTING SWITCH.
4: EXISTING RESTROOM EXHAUST FAN BY LANDLORD

- ### HVAC PLAN KEY NOTES
- EXISTING ROOFTOP UNIT W/RA & SA CURB OPENING DUCTED ON FULL SIZE & TRANS INTO DUCTWORK AS SHOWN. ALL UTILITIES CONNECTIONS (GAS, CONDENSATE, ELECTRICAL, ECT. ARE BY LANDLORD.
 - IF NOT EXISTING, INSTALL NEW DUCT MOUNTED SMOKE DETECTOR IN SUPPLY DUCT OF RTU.
 - PROVIDE & INSTALL 4" GALVANIZED SHEET METAL CLOTHES DRYER DUCT FROM CLOTHES DRYER TO NEW DRYER VENT TERMINATION ASSEMBLY THRU ROOF. VERIFY LOCATION IN THE FIELD. (BY L.L.)
 - FLEX, EXTEND W/ RIGID DUCT WHERE FLEX REACHES 5'-0" MAX LENGTH - TYP. (BY LL.)
 - SPIN-IN TAKE-OFF WITH VOLUME DAMPER - TYP FOR ALL. (BY LL.)
 - EXISTING RESTROOM EXHAUST FAN TO REMAIN.
 - UNDERCUT DOOR 1" FOR RETURN TRANSFER AIR.
 - THERMOSTAT 5'-0" A.F.F. - SEE MECHANICAL NOTE #7.

- ### MECHANICAL NOTES
- ALL EQUIPMENT, INSTALLATIONS AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE LANDLORD CRITERIA.
 - VERIFY LOCATION OF ANY ROOF PENETRATION WITH LANDLORD. ALL ROOF PENETRATIONS, PATCHING AND FLASHING SHALL BE PER LANDLORD'S CRITERIA.
 - REMOVE ALL UNUSED PIPING, HVAC EQUIPMENT, DUCTWORK AND ACCESSORIES. DO NOT ABANDON.
 - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING STUB-INS, TAPS, ETC. FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE.
 - NO FIBERGLASS DUCTBOARD ALLOWED.
 - INSULATE ALL NEW SUPPLY, RETURN AND EXHAUST DUCTWORK WITH MINIMUM 6.0 R-VALUE FIBERGLASS DUCT WRAP INSULATION. ALL DUCTWORK, INCLUDING DIFFUSER SURFACES EXPOSED TO THE PLENUM, SHALL HAVE A SEALED VAPOR BARRIER FACE WITH ALL SEAMS TAPED VAPOR BARRIER TIGHT. ALL JOINTS WHERE PRE-INSULATED FLEX TIES TO DIFFUSERS AND DUCT MUST BE DOUBLE SEALED WITH THE INNER SEALED TO THE DIFFUSER OR SPIN-IN AND THE OUTER SEALED TO THE DIFFUSER AND DUCT INSULATION. ALL DUCTWORK SHALL BE SHEET METAL IN ACCORDANCE WITH SMACNA STANDARDS. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - TEMPERATURE CONTROL: ALL CONTROL WIRING FOR COMPLETE OPERATION OF HVAC SYSTEM BY LANDLORD. ACCORDING TO THE FOLLOWING SEQUENCE OF OPERATION. LANDLORD TO MOUNT PER TENANTS DRAWING.
TENANTS G.C. TO PROVIDE PROGRAMMABLE THERMOSTAT, LANDLORD TO INSTALL PROGRAMMABLE THERMOSTAT.
 - SUBMIT TEST AND BALANCE REPORT TO TENANT FOR APPROVAL.

- ### MECHANICAL SYMBOLS
- (EX)SUPPLY DIFFUSER
 - (EX)RETURN GRILLE
 - (EX)EXHAUST GRILLE
 - VOLUME DAMPER
 - SMOKE DETECTOR
 - DIFFUSER TYPE/NECK SIZE CFM REQUIRED
 - THERMOSTAT
 - POINT OF CONNECTION

Order Plans