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ENGINEERING, INC.

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554 OLD SPANISH TRAIL  
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ARCHITECTURE  
ENGINEERING  
STUDIES  
PLANNING  
INVESTIGATION  
EXPERT WITNESS

SLIDELL  
ATHLETIC CLUB

BOB THIRSTRUP  
OAK SAC PROPERTY, LLC  
OAK HARBOR BLVD.  
SLIDELL, LA  
70458

MECHANICAL  
PLAN

REV:

SCALE: AS NOTED

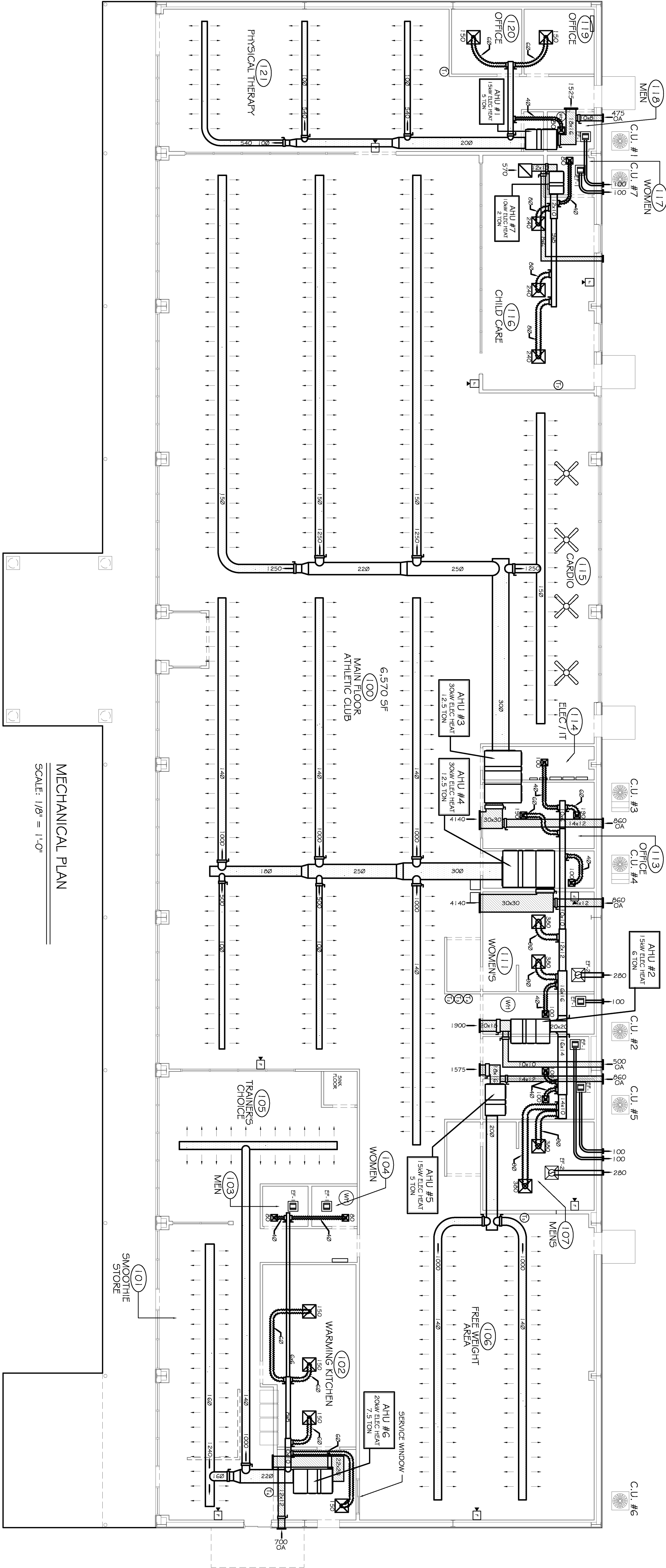
JOB#: 2121

DATE: 06-22-11

SHEET

M-1

OF 1



MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

EXHAUST FAN SCHEDULE

FAN No.	CFM	VOLTAGE	TYPE	MANF.
EF-1	100	120	VENTILIGHT	
EF-2	280	120	VENT	

A/C UNIT SCHEDULE TOTAL HVAC TONS = 50.5

NO.	TOTAL BTU	CFM	O.A.	HEAT ELEC.		ELECTRICAL		COMMENTS
				VOLTAGE	MCA	CKT BRKR		
1	60,000	2,000	475	15 KW	208V, 3Ø	-	PNL I	CARRIER (VERIFY WITH OWNER)
2	72,000	2,400	500	15 KW	208V, 3Ø			
3	150,000	5,000	860	30 KW	208V, 3Ø			
4	150,000	5,000	860	30 KW	208V, 3Ø			
5	60,000	2,000	425	15 KW	208V, 3Ø			
6	90,000	3,000	700	20 KW	208V, 3Ø			
7	24,000	800	230	10 KW	208V, 3Ø			

LEGEND

- ☒ - INDICATES NEW CEILING DIFFUSER - CFM AS NOTED - 24x24 UNLESS OTHERWISE NOTED. SIZE INDICATES NECK SIZE
- ☒ - INDICATES NEW RETURN AIR CEILING GRILLE OF SIZE INDICATED. TRANSFER DUCT TO BE RECTANGULAR AS INDICATED.
- ☐ - VENT / LIGHT COMBINATION
- ☒ - THERMOSTAT
- INDICATES NEW SHEET METAL DUCTWORK FOR SUPPLY AIR, SIZES INDICATED ARE SHEET METAL DIMENSIONS
- INDICATES NEW SHEET METAL DUCTWORK FOR RETURN AIR, SIZES INDICATED ARE SHEET METAL DIMENSIONS
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6 PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS, SIZE AS INDICATED
- A/C UNIT

FRESH AIR REQUIREMENTS

PER IMC 2009 TABLE 403.3

ROOM NAME	SF	OCC/ 1000 SF	CFM/ OCC	CFM/ SF	TOTAL OA
AHU #1					475
PHYSICAL THERAPY 121	1265	20	15	-	383
TOILET	70 CFM PER TOILET FIXTURE				70
OFFICE	260	5	5	0.06	22
AHU #2					500
TOILET	70 CFM PER TOILET FIXTURE				490
OFFICE	120	5	5	0.06	10
AHU #3					860
HEALTH CLUB	3300	10	20	0.06	860
AHU #4					860
HEALTH CLUB	3300	10	20	0.06	860
AHU #5					425
TREADMILL AREA	1635	10	20	0.06	425
AHU #6					700
SMOOTHIE STORE	1675	100	7.5	0.18	425
TOILET	70 CFM PER TOILET FIXTURE				140
RETAIL	584	15	7.5	0.12	135
AHU #7					230
TOILET	70 CFM PER TOILET FIXTURE				70
CHILD CARE		25	10	0.18	160