

General Building Design Information

Lighting Schedule	
Space Type	LPD
Offices -Open	0.8
Office - Enclosed	0.9
Conference	1
Corridor	0.5
Stair	0.5
Mechanical	0.8
Office Printing	0.8
Reception	0.9
Kitchen	0.85

Opaque Envelope			
	Type	U - value	F- Value
Roof	4" LW concrete	0.033	---
Walls	4" Lightweight Block	0.02	---
slab on grade floor	4" slab	---	0.7
Partitions	Lightweight	0.08	---
Opaque doors	Swinging	0.07	---

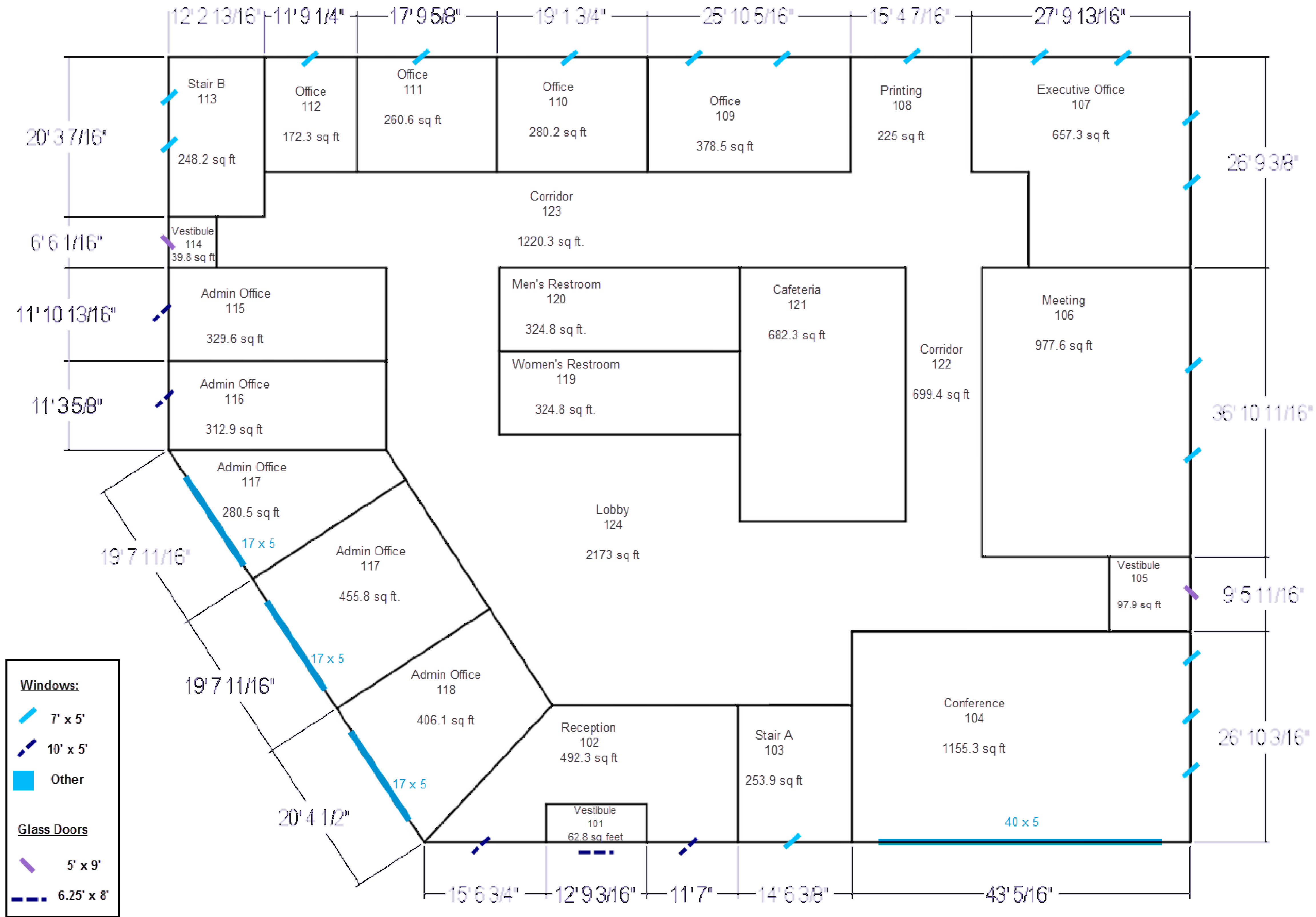
Geometry		
Floor to floor height	12 feet	
Plenum Height	3 feet	Return air plenum

Fenestration				
	Type	U	SC	Notes
Glass	Double Coated 1/4"	0.25	0.36	Metal Frame
Glass doors	Triple Clear 1/4"	0.21	0.4	Metal Frame

System Information		
Type	Serves Rooms	Notes
Unit Heaters	Vestibules 101,105, 114	
Split system heat pump	Mechanical 206	
VAV with HW reheat	All Remaining	Each room = 1 zone

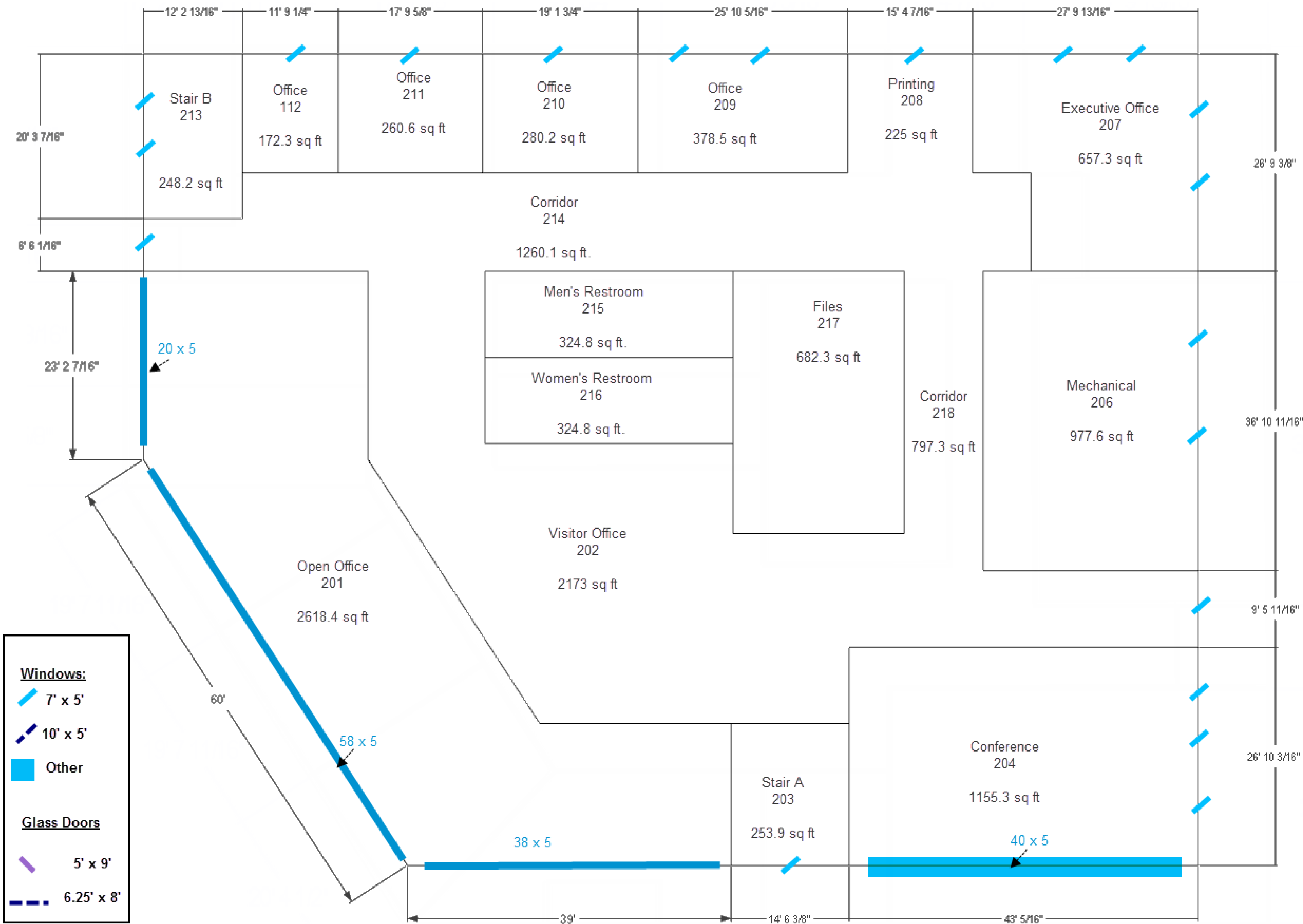
Exterior Lighting Details				
Area Type	Length	Width	Area	Watts
Parking Lot	---	---	20084	1600
Sidewalk 1	197.4	7	1382	105
Sidewalk 2	47.25	7.5	363	22
Sidewalk 3	61.6	7.5	462	30

First Floor Layout



Scale: 1" = 6.5'

Second Floor Layout



Equipment Specifications

Radiant Unit Heater Schedule		
Equipment	Serves	MBH
UH-1	101	2
UH-2	105	2
UH-3	114	2

Room Exhaust Fan Schedule				
Equipment	Serves	CFM	Static	BHP
EF-1	119	200	0.5	0.1
EF-2	120	200	0.5	0.1
EF-3	215	200	0.5	0.1
EF-4	216	200	0.5	0.1

Pump Schedule					
	Serves	BHP	GPM	Head	VFD
Heating Water	B-1	7.5	110	50	Yes
Heating Water	B-2	7.5	110	50	Yes
Domestic Hot Water	B-3	5	110	50	Yes
Circulating pump	VAV	2.5	50	35	No
Circulating pump	VAV	2.5	50	35	No

Boiler Schedule						
Unit	Serves	MBH	Efficiency	Fuel	Type	Notes
B-1	VAV,UH, hp	600	95%	Gas	condensing	
B-2	VAV,UH, hp	600	95%	Gas	condensing	1
B-3	Domestic hot water	120	94%	Gas	condensing	

1. Redundant - Backup boiler

AHU Schedule														
	Cooling				Heating		Supply Fan				Return Fan/exhaust			Notes
Unit	Serves	Tons	Efficiency	Supply Air	MBH	Efficiency	OA CFM	CFM	BHP	Static	CFM	HP	Static	
AHU-1	All but 206, 101,105, 114	55	14 EER	55	300	-	3900	16000	25	2	15600	15	1	1, 2, 3, 4
HP-1	206	1.3	6.1 COP	55	18	5.2 COP	60	500	0.25	1	---	---	---	1, 3

- 1. Assume all efficiencies = Packaged Efficiency
- 2. VFD on Supply/Return Fans
- 3. Optimum Start Controls available
- 4. Comparative Enthalpy Economizer