

GENERAL NOTES:

1. VERIFY EQUIPMENT ON THIS SHEET WITH SUBMITTALS PRIOR TO ANY ELECTRICAL ROUGH-IN.

Fixture Schedule						
Type	Description	Location	Volts	Lamp	V/A	Mounting
D	2-LAMP, 4' FLUORESCENT STRIP LIGHT WITH REFLECTOR TO MATCH EXISTING FAN LOFT FIXTURES	FAN LOFT	277.	2-32W T8 CW LAMPS	64	SURFACE
Exp	CLASS 1, DIV2, RATED 2-LAMP, 4' FLUORESCENT STRIP LIGHT WITH REFLECTOR	LAB	277.	2-32W T8 CW LAMPS	64	SURFACE
WPS	SMALL EXTERIOR WALL PACK FIXTURE WITH LOW TEMP ELECTRONIC BALLAST TO MATCH NREL STANDARD	BUILDING EXTERIOR	277.	LED	21	EXTERIOR AT HEIGHT TBD
N	2x4 3 LAMP ACRYLIC TROFFER WITH A-12 LENS	LAB	277.	3-32W T8 CW LAMPS	96	GRID

## MECHANICAL EQUIPMENT SCHEDULES

AIR HANDLING UNIT SCHEDULE						
PLAN CODE	MANUF. & MODEL NO.	LOCATION	ELECTRICAL		DISC. CONNECTION	
			HP	VOLT / Ø		
MAU-5	TEMPROL	FAN LOFT	(4)27/5	460/3		GROUP 60A, 1"-#6, INDIVIDUAL 1/2"-#12
NOTES:						
1. VARIABLE VOLUME AIR HANDLING UNIT WITH FAN WALL. PROVIDE (1) VFD FOR (4) SUPPLY FANS.						
2. 2-VFD UNITS TO CONTROL 2 MOTORS EACH.						
3.						

BLOWER COIL UNIT SCHEDULE						
PLAN CODE	MANUF. & MODEL NO.	LOCATION	UNIT TYPE	ELECTRICAL		
				VOLTS/ PHASE	MOTOR HP	DISC. CONNECTION
FCU-112	INTERNATIONAL ENVIRONMENTAL CBX10	LAB 101	HORIZONTAL CEILING EXPOSED	115/1	1/12 (2x)	20A, 1/2"-H12
NOTES:						
1.						
2.						

FAN SCHEDULE						
PLAN CODE	MANUFACTURER & MODEL NO.	MOTOR		CONTROL	DAMPER TYPE	DISC. CONNECTION
		HP	V/φ/HZ			
EF-54	GREENHECK 30-BISW	25	460/3/60	NDIE: 8	NDIE: 2	60A, 3/4"-#8
EF-5B	GREENHECK 30-BISW	25	460/3/60	NDIE: 8	NDIE: 2	60A, 3/4"-#8
EF-308	GREENHECK CW-141-A	1	460/3/60	-	-	30A, 1/2"-#12
<u>NOTES:</u>						
1. REFER TO SPECIFICATIONS FOR VIBRATION AND SOUND ISOLATION REQUIREMENTS.						
2. MOTORIZED BACKDRAFT DAMPER.						
3. INTEGRAL DISCONNECT.						
4. FAN SPEED TO BE CONTROLLED BY VFD.						
5. FUTURE FAN INDICATED FOR REFERENCE ONLY.						



PUMP SCHEDULES						
PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	ELECTRICAL			DISC. CONNECTION
			HP	VOLT/ Ø/HZ	RPM	
P-9A	ARMSTRONG 4280-3x2x8	MUA-1 HEATING COIL	2	460/3/60	1800	30A, 1/2"-#12
P-9B	ARMSTRONG 4280-3x2x8	MUA-1 HEATING COIL	2	460/3/60	1800	30A, 1/2"-#12
P-11A	ARMSTRONG 4280-3x2x5x6	MUA-1 COOLING COIL	2	460/3/60	1800	30A, 1/2"-#12
P-11B	ARMSTRONG 4280-3x2x5x6	MUA-1 COOLING COIL	2	460/3/60	1800	30A, 1/2"-#12
P-10A	ARMSTRONG 4380 2x2x8	ENERGY RECOVERY LOOP	3	460/3/60	1800	30A, 1/2"-#12
P-10B	ARMSTRONG 4380 2x2x8	ENERGY RECOVERY LOOP	3	460/3/60	1800	30A, 1/2"-#12
NOTES:						

UNIT HEATER SCHEDULE (HDT WATER)						
PLAN CODE	MANUFACT. & MODEL NO.	LOCATION	ELECTRICAL			DISC. CONNECTION
			HP	VOLTS	Ø	
UH-309	TRANE UHSA-060S	FAN LFT	1/20	115	1	20A, 1/2" #12
UH-308	TRANE UHSA-060S	PENTHOUSE	1/20	115	1	20A, 1/2" #12
NOTES						
1. PROVIDE WALL MOUNTED THERMOSTAT AND STRAP ON AQUA STAT.						
2.						

GLYCOL FEEDER SCHEDULE					
PLAN CODE	MANUFACTURER	MODEL	ELECTRICAL		DISC. CONNECTION
			VOLTS/ PHASE	WATTS	
GF-1	AXIOM	MF-300S	115/1	50.0	20A, 1/2" #12

NOTES:

- UNIT TO BE C/V FUSED POWER SUPPLY ADAPTER WITH LED POWER INDICATOR LIGHT, 115/60/1 50 WATTS AC SUPPLIED LOOSE FOR FIELD INSTALLATION.

REVISIONS										FILE INFORMATION			ENGINEERING REVIEW		FLTR		ELEC							
NO.		DATE	BY	APP'D.	BAE	NO.	DATE	BY	APP'D.	BAE	USER	??	DATE: ??	TIME	REF'S.	DESIGNER	APPROVAL	DATE	FLTR	THERMO-CHEM TASK ORDER 13	LAB 101 SCHEDULES			
0	50% CONSTRUCTION DOCUMENTS	08-12-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1	90% CONSTRUCTION DOCUMENTS	09-29-11	-	-	-	-	-	-	-	-	DWG. FILE	-	-	-	-	-	-	-	-	-	-			
2	100% CONSTRUCTION DOCUMENTS	11-3-11	-	-	-	-	-	-	-	-	DWG. FOLDER	-	-	-	-	-	-	-	-	-	-			
3	FOR CONSTRUCTION	01-20-12	-	-	-	-	-	-	-	-	ACQ. VERSION AUTOCAD 2007	-	-	-	-	-	-	-	-	-	-			
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<div><div><b>NREL</b></div><div><b>National Renewable Energy Laboratory</b> 800 Colorado Avenue, Golden, Colorado 80601-3333 Generalized for the U.S. Department of Energy by National Renewable Energy Laboratory's Services Division</div><div></div></div>																					DRAWING NO. PERTX E-10		REVISION NO. 0	
NREL PROJECT NO. EX20100034		NREL WORK ORDER NO. 13		N/A/ PROJECT NO.																				