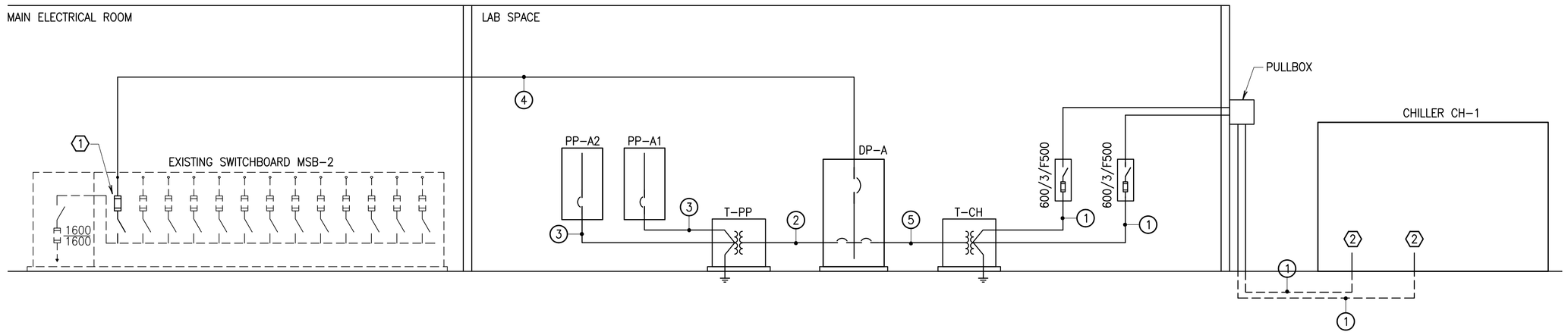

ONE-LINE DIAGRAM

KEYED NOTES: (APPLIES TO THIS DRAWING ONLY)

1. INSTALL NEW 800A FUSED SWITCH IN EMPTY CUBICLE OF EXISTING SWITCHBOARD MSB-2. SWITCH SHALL BE SAME MANUFACTURER AS EXISTING SWITCHBOARD.
2. MAKE FINAL CONNECTION TO CHILLER PER MANUFACTURER'S REQUIREMENTS.

DRY-TYPE TRANSFORMER SCHEDULE

NO.	kVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	GROUNDING ELECTRODE CONDUCTOR	REMARKS
T-PP	150	480	120/208	#1/0	
T-CH	300	480	120/208	#1/0	

FEEDER SCHEDULE

1	2 SETS (3-350 kcmil AND 1#2/0 G - 3" C)
2	3#4/0 AND 1#4 G - 2.5" C
3	4#4/0 AND 1#4 G - 2.5" C
4	2 SETS (3-500 kcmil AND 1#2/0 G - 3.5" C)
5	3-500 kcmil AND 1#3 G - 3.5" C

DISTRIBUTION PANEL DP-A SCHEDULE

CIRCUIT NUMBER	BREAKERS TRIP	BREAKERS FRAME	BREAKERS POLES	EQUIPMENT SERVED	LOAD kVA	REMARKS
1	20	3	3	CRACU-1	9.1	
2	20	3	3	CRACU-2	9.1	
3	20	3	3	CRACU-3	9.1	
4	20	3	3	CRACU-4	9.1	
5	20	3	3	CHP-1	6.3	
6	225	3	3	PP-A1 AND PP-A2 VIA XFMR	107.3	
7	400	3	3	CH-1 VIA XFMR	278.7	
8	--	--	3	SPACE		
9	--	--	3	SPACE		
10	--	--	3	SPACE		

CONNECTED kVA: 429 CONNECTED AMPS: 516

NOTES:
1. PROVIDE MINIMUM AMPERES INTERRUPTING CAPACITY (AIC) AND BUS BRACING EQUAL TO MSB-2 AIC RATING.
2. CHARACTERISTICS:

VOLTS: 480 HERTZ: 60
PHASE: 3 MCB: 800 (SHUNT TRIP)
WIRE: 3 + G

PANEL: PP-A1 AMP: 225
VOLTAGE: 208/120 MAIN: MCB
PHASE: 3, 4 WIRE + G, AIC RATING: 10,000

EQUIPMENT	kVA	CB	CKT	A	B	C	CKT	CB	kVA	EQUIPMENT
COMP RACK PDU-1	2.2	20/3	1	4.4			2	20/3	2.2	COMP RACK PDU-5
	2.2		3		4.4		4		2.2	
	2.2		5			4.4	6		2.2	
COMP RACK PDU-2	2.2	20/3	7	4.4			8	20/3	2.2	COMP RACK PDU-6
	2.2		9		4.4		10		2.2	
	2.2		11			4.4	12		2.2	
COMP RACK PDU-3	2.2	20/3	13	4.4			14	20/3	2.2	COMP RACK PDU-7
	2.2		15		4.4		16		2.2	
	2.2		17			4.4	18		2.2	
COMP RACK PDU-4	2.2	20/3	19	4.4			20	20/3	2.2	COMP RACK PDU-8
	2.2		21		4.4		22		2.2	
	2.2		23			4.4	24		2.2	
CH-1 CONTROL	0.8	20/1	25	1.6			26	20/1	0.8	RECEPT
CH-1 HEAT TRACE	0.4	20/1	27		1.2		28	20/1	0.8	RECEPT
FA PANEL	0.5	20/1	29			0.9	30	20/1	0.4	RECEPT
SECURITY CAMERAS	0.5	20/1	31	0.5			32	1	0.0	SPARE
TELECOM RACK	0.8	20/1	33		0.8		34	1	0.0	SPARE
LIGHTING	1.6	20/1	35			1.6	36	1	0.0	SPARE
SECURITY CAMERAS	0.5	20/1	37	0.5			38	1		SPACE
EX RECEPT	1.2	20/1	39		1.2		40	1		SPACE
SPARE	0.0	20/1	41			0.0	42	1		SPACE
PHASE TOTALS				20.2	20.8	20.1				

CONNECTED AMPS: 170 CONNECTED kVA: 61

PANEL: PP-A2 AMP: 225
VOLTAGE: 208/120 MAIN: MCB
PHASE: 3, 4 WIRE + G, AIC RATING: 10,000

EQUIPMENT	kVA	CB	CKT	A	B	C	CKT	CB	kVA	EQUIPMENT
COMP RACK PDU-9	2.2	20/3	1	4.4			2	20/3	2.2	COMP RACK PDU-13
	2.2		3		4.4		4		2.2	
	2.2		5			4.4	6		2.2	
COMP RACK PDU-10	2.2	20/3	7	4.4			8	20/3	2.2	COMP RACK PDU-14
	2.2		9		4.4		10		2.2	
	2.2		11			4.4	12		2.2	
COMP RACK PDU-11	2.2	20/3	13	4.4			14	20/3	2.2	COMP RACK PDU-15
	2.2		15		4.4		16		2.2	
	2.2		17			4.4	18		2.2	
COMP RACK PDU-12	2.2	20/3	19	2.2			20	20/1	0.0	SPARE
	2.2		21		2.2		22	20/1	0.0	SPARE
	2.2		23			2.2	24	20/1	0.0	SPARE
SPACE		1	25	0.0			26	1		SPACE
SPACE		1	27		0.0		28	1		SPACE
SPACE		1	29			0.0	30	1		SPACE
SPACE		1	31	0.0			32	1		SPACE
SPACE		1	33		0.0		34	1		SPACE
SPACE		1	35			0.0	36	1		SPACE
SPACE		1	37	0.0			38	1		SPACE
SPACE		1	39		0.0		40	1		SPACE
SPACE		1	41			0.0	42	1		SPACE
PHASE TOTALS					15.4	15.4	15.4			

CONNECTED AMPS: 128 CONNECTED kVA: 46

NO.	REVISIONS	DATE
	ISSUED FOR CONSTRUCTION	09/13/04

NO.	REVISIONS	DATE

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TITLE
ELECTRICAL ONE-LINE AND SCHEDULES

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