MAIN SWITCHBOARD '5MSB'

2007-0731 CAÑADA BLDG 5/6

Load No.	Description / Location	Load (VA)	Load Type
1	(E) BLDG 8 (ESTIMATED PER BREAKER SIZE)	22,248	R
-	---	24,509	R
-	---	22,956	R
2	(E) BLDG 2 (ESTIMATED PER BREAKER SIZE)	22,144	R
-	---	22,144	R
-	---	22,144	R
3	(E) DIST. PANEL 'FP3A' (AS-BUILT DOCUMENTATION)	110,000	R
-	---	110,000	R
-	---	110,000	R
4	(E) PANEL 'FE3A' VIA XFMR 'FT3A' (ESTIMATED PER BREAKER SIZE)	6,643	R
-	---	6,643	R
-	---	6,643	R
5	(E) PANEL 'FL3B' (ESTIMTATED PER BREAKER SIZE)	13,840	L
-	---	13,840	L
-	---	13,840	L
6	(E) PANEL 'FL3A' (ESTIMATED PER BREAKER SIZE)	13840	L
-	---	13840	L
-	---	13840	L
7	DIST. PANEL '5DP2'	84,791	S
-	---	78,664	S
-	---	74,140	S
8	PANEL '5L3'	4,629	S
-	---	3,322	S
-	0	0	S
9	ELEVATOR #5-EL-W	9,400	M
-	---	9,400	M
-	---	9,400	M
10	EF-5.1	3,045	M
-	---	3,045	M
-	---	3,045	M
11	DIST. PANEL '5DPR3' VIA XFMR '5T3'	33,499	S
-	---	30,927	S
-	---	29,790	S
12	DIST. PANEL '6DP1'	20,711	S
-	---	20,298	S
-	---	19,357	S
13	AC-5.3	5,813	M
-	---	5,813	M
-	---	5,813	M
14	EF-5.3	830	M
-	---	830	M
-	---	830	M

Total Connected Load:Ph A	351,433 VA	1,268 Amps
Total Connected Load:Ph B	343,275 VA	1,239 Amps
Total Connected Load:Ph C	331,798 VA	1,197 Amps
Total Connected Load	**1,054.3 KVA**	**1,268.1 Amps**
Total Demand Load	**754.1 KVA**	**907.0 Amps**

DIST. PANEL '5DP2'

2007-0731 CAÑADA BLDG 5/6

Load No.	Description / Location	Load (VA)	Load Type
1	(E) LOAD (ESTIMATED PER BREAKER SIZE)	2,768	M
-	---	2,768	M
-	---	2,768	M
2	(E) LOAD (ESTIMATED PER BREAKER SIZE)	2,768	M
-	---	2,768	M
-	---	2,768	M
3	(E) ELEVATOR #5-EL-S	17,992	M
-	---	17,992	M
-	---	17,992	M
4	PANEL '5L2'	2,140	S
-	---	2,604	S
-	---	2,948	S
5	PANEL '5L1'	2,201	S
-	---	1,843	S
-	---	2,110	S
6	DIST. PANEL '5DPR2' VIA XFMR '5T2'	29,285	S
-	---	25,916	S
-	---	19,530	S
7	AC-5.1	5,813	M
-	---	5,813	M
-	---	5,813	M
8	AC-5.2	9,411	M
-	---	9,411	M
-	---	9,411	M
9	ELEVATOR #5-EL-N	9,400	M
-	---	9,400	M
-	---	9,400	M
10			
-			
-			
11			
-			
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12			
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-			
13			
-			
-			
14			
-			
-			

Total Connected Load:Ph A	81,778 VA	295 Amps
Total Connected Load:Ph B	78,515 VA	283 Amps
Total Connected Load:Ph C	72,740 VA	262 Amps
Total Connected Load	**245.3 KVA**	**295.1 Amps**
Total Demand Load	**230.8 KVA**	**277.6 Amps**

DIST. PANEL '6DP1'

2007-0731 CAÑADA BLDG 5/6

Load No.	Description / Location	Load (VA)	Load Type
1	PANEL '6R1' VIA XFMR '6T1'	4,080	S
-	---	3,728	S
-	---	3,428	S
2	PANEL '6L1'	2,612	S
-	---	2,551	S
-	---	1,910	S
3	AC-6.1	13,078	M
-	---	13,078	M
-	---	13,078	M
4	EF-6.1	941	M
-	---	941	M
-	---	941	M
5			
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Total Connected Load:Ph A	20,711 VA	75 Amps
Total Connected Load:Ph B	20,298 VA	73 Amps
Total Connected Load:Ph C	19,357 VA	70 Amps
Total Connected Load	**62.1 KVA**	**74.7 Amps**
Total Demand Load	**71.6 KVA**	**86.1 Amps**

RFI - 293
Panel Provisions
For B8 Elevator Lights.

DIST. PANEL '5DPR2'

2007-0731 CAÑADA BLDG 5/6

Load No.	Description / Location	Load (VA)	Load Type
1	PANEL '5R2A'	6,586	S
-	---	6,360	S
-	---	4,774	S
2	PANEL '5R2B'	9,120	S
-	---	9,100	S
-	---	9,240	S
3	FC-5.1	83	M
-	---	83	M
-			
4	FC-5.2	83	M
-	---	83	M
-			
5	FC-5.3	83	M
-	---	83	M
-			
6	FC-5.4	115	M
-			
-			
7	PANEL '5R1'	7,354	S
-	---	5,882	S
-	---	5,516	S
8	CU-5.4	1,536	M
-			
-			
9	CU-5.1	1,497	M
-	---	1,497	M
-			
10	CU-5.2	1,414	M
-	---	1,414	M
-			
11	CU-5.3	1,414	M
-	---	1,414	M
-			
12	CU-5.4	1,536	M
-			
-			
13			
-			
-			
14			
-			
-			

Total Connected Load:Ph A	30,821 VA	257 Amps
Total Connected Load:Ph B	25,916 VA	216 Amps
Total Connected Load:Ph C	19,530 VA	163 Amps
Total Connected Load	**92.5 KVA**	**256.8 Amps**
Total Demand Load	**55.5 KVA**	**154.1 Amps**

DIST. PANEL '5DPR3'

2007-0731 CAÑADA BLDG 5/6

Load No.	Description / Location	Load (VA)	Load Type
1	PANEL '5R3A'	9,020	S
-	---	7,840	S
-	---	8,200	S
2	(E) PANEL 'FR3C' (ESTIMATED PER BREAKER SIZE)	21,590	R
-	---	21,590	R
-	---	21,590	R
3	FC-5.5	83	M
-	---	83	M
-			
4	CU-5.5	1,414	M
-	---	1,414	M
-			
5	EF-5.4	696	M
-			
-			
6	EF-5.5	696	M
-			
-			
7			
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14			
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-			

Total Connected Load:Ph A	33,499 VA	279 Amps
Total Connected Load:Ph B	30,927 VA	258 Amps
Total Connected Load:Ph C	29,790 VA	248 Amps
Total Connected Load	**100.5 KVA**	**279.2 Amps**
Total Demand Load	**56.7 KVA**	**157.4 Amps**

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	VOLTS/ PHASE	HP	KVA	MCA	MOCP	WIRE/CONDUIT	CIRCUIT	NOTES
AC-5.1	AIR HANDLING UNIT	MECHANICAL ROOM	480/3	15			40A/3P	303	5DP2-7	
AC-5.2	AIR HANDLING UNIT	MECHANICAL ROOM	480/3	25			70A/3P	553	5DP2-8	
AC-5.3	AIR HANDLING UNIT	MECHANICAL ROOM	480/3	15			40A/3P	303	5MSB-13	
AC-6.1	AIR HANDLING UNIT	MECHANICAL ROOM	480/3	(2) 15			70A/3P	553	6DP1-3	
FC-5.1	FAN COIL	TEL./DATA ROOM	208/1			1	20A/2P	202	5DPR2-3	
FC-5.2	FAN COIL	ELEV. MACHINE ROOM	208/1			1	20A/2P	202	5DPR2-4	
FC-5.3	FAN COIL	ELEV. MACHINE ROOM	208/1			1	20A/2P	202	5DPR2-5	
FC-5.4	FAN COIL	ELECTRICAL ROOM	120/1			1.2	20A/1P	202	5DPR2-6	
FC-5.5	FAN COIL	ELEV. MACHINE ROOM	208/1			1	20A/2P	202	5DPR3-3	
CU-5.1	CONDENSING UNIT		208/1			18	30A/2P	303	5DPR2-9	1
CU-5.2	CONDENSING UNIT		208/1			17	20A/2P	303	5DPR2-10	1
CU-5.3	CONDENSING UNIT		208/1			17	20A/2P	303	5DPR2-11	1
CU-5.4	CONDENSING UNIT		120/1			16	20A/1P	303	5DPR2-12	1
CU-5.5	CONDENSING UNIT		208/1			17	20A/2P	303	5DPR3-4	1
EF-5.1	EXHAUST FAN	ROOF	480/3	7.5			20A/3P	203	5MSB-16	
EF-5.3	EXHAUST FAN	ROOF	480/3	1.5			20A/3P	203	5MSB-14	
EF-5.4	EXHAUST FAN	ROOF	480/3	1			20A/3P	203	5DPR3-5	
EF-5.5	EXHAUST FAN	ROOF	120/1	0.25			20A/1P	202	5DPR3-7	
EF-6.1	EXHAUST FAN	ROOF	480/3	2			20A/3P	203	6DP1-3	

GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION.
MCA = MINIMUM CIRCUIT AMPACITY.

MECHANICAL EQUIPMENT CONNECTION NOTES

1 INTERLOCK WITH ASSOCIATED FAN COIL UNIT
2

COPPER FEEDER SCHEDULE

202 2 #12 CU THWN, 1 #12 CU GND., IN 3/4" C.
203 3 #12 CU THWN, 1 #12 CU GND., IN 3/4" C.
303 3 #10 CU THWN, 1 #10 CU GND., IN 3/4" C.
403 3 #8 CU THWN, 1 #10 CU GND., IN 1" C.
503 3 #6 CU THWN, 1 #10 CU GND., IN 1" C.

△4 197. Are lighting control panels required? If so please provide lighting control panel quantity, voltage, # of relays locations and schedules.

Response: Lighting control panels (LCP) are shown as part of this Addendum No. 2. Voltage is 277V. Provide 24 relays per LCP.

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ENGINEER: REGISTERED PROFESSIONAL ENGINEER, JASON LAU, No. E16806, Exp. 09-30-10, ELECTRICAL, STATE OF CALIFORNIA

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REVISION HISTORY

	REMARKS	DATE
△1		
△2		
△3		
△4		
△5		
△6		
△7		
△8		

DRAWING STATUS

	DATE
○ DSA PLAN CHECK	
○ DSA BACK CHECK	
○ BIDDING (BID #86593)	
○ CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
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BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE

4200 Farm Hill Boulevard
Redwood City, CA 94061

PANEL SCHEDULES

Date 01/22/09
Scale AS NOTED
Project Number 07013
Drawing Number E6.1