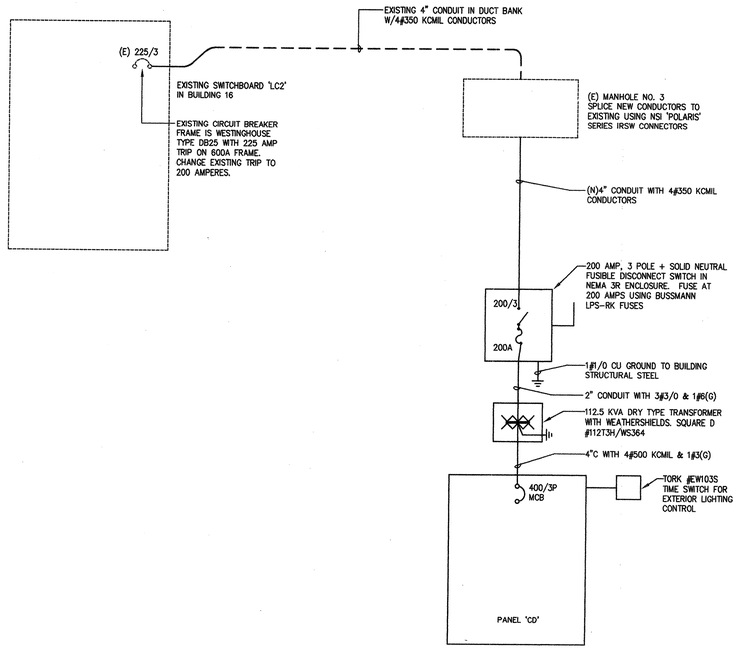

ONE LINE DIAGRAM

PANEL CD

VOLTS: 120 / 208 V
PHASE: 3
WIRE: 4 W
BUSSING: 400A
POLES: 42P

MAIN: 400/3
MOUNTING: SURFACE
AIC RATING: 22K
CONDUIT: 4"
FEEDER: 4 # 500KCMIL & 1 # 3 (G)

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
LIGHTING	L	1.13			20/1	1	2	20/1	1.24			L	LIGHTING
LIGHTING	L		1.60		20/1	3	4	20/1		1.54		L	LIGHTING
LIGHTING	L			1.55	20/1	5	6	20/1			1.56	L	LIGHTING
LIGHTING	L	1.29			20/1	7	8	20/1	1.20			R	RECEPTACLE
EXTERIOR LIGHTING	L		0.49		20/1	9	10	20/1		0.80		R	RECEPTACLE
SITE LIGHTING	L			1.40	20/1	11	12	20/1			0.80	R	RECEPTACLE
STORAGE EXHAUST	H	1.20			20/1	13	14	20/1	0.75			R	RECEPTACLE
PLUGMOLD	R		1.00		20/1	15	16	20/1		1.20		R	RECEPTACLE
PLUGMOLD	R			1.00	20/1	17	18	20/1			1.25	R	WASHER
RECEPTACLE	R	1.00			20/1	19	20	20/1	1.60			R	RECEPTACLE
RECEPTACLE	R		1.00		20/1	21	22	20/1		1.60		R	RECEPTACLE
RECEPTACLE	R			1.20	20/1	23	24	20/1			1.60	R	RECEPTACLE
KITCHEN RECEPTACLE	R	1.20			20/1	25	26	20/1	1.20			R	KITCHEN RECEPTACLE
GARBAGE DISPOSAL/DISHWASHER	R		1.50		20/1	27	28	20/1		1.20		R	KITCHEN RECEPTACLE
KITCHEN RECEPTACLE	R				20/1	29	30	20/1			1.20	R	REFRIGERATOR
RECEPTACLE	R	1.00			20/1	31	32	20/1	1.20			R	REFRIGERATOR
RECEPTACLE	R		1.00		20/1	33	34	20/1		1.40		R	RECEPTACLE
RECEPTACLE	R			0.20	20/1	35	36	20/1			1.60	R	RECEPTACLE
SPARE					20/1	37	38	20/1	0.50			R	IRRIGATION CONTROLLER
SPARE					20/1	39	40	20/1		0.50		M	FACP
SPARE					20/1	41	42	20/1			1.20	R	TELEPHONE TERMINAL BOARD
		6.82	6.59	5.35					7.69	8.24	9.21		

DEMAND LOAD SUMMARY		CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M":	NON-CONTINUOUS / MISC. LOADS	0.50	100%	0.50
TYPE "L":	LIGHTING / CONTINUOUS LOADS	11.80	125%	14.75
TYPE "R":	RECEPTACLES (FIRST 10KVA)	10.00	100%	10.00
TYPE "R":	RECEPTACLES (OVER 10KVA)	20.40	50%	10.20
TYPE "H":	HVAC / MECHANICAL LOADS	1.20	100%	1.20
	TOTALS:	43.90		36.65

PHASE A: 14.51 KVA
PHASE B: 14.83 KVA
PHASE C: 14.56 KVA

123.58 MAX AMPS / PHASE

REGISTERED PROFESSIONAL ENGINEER RICHARD A. MAURER No. E 8626 Exp. 9-30-02 ELECTRICAL STATE OF CALIFORNIA

PANEL CD

VOLTS: 120 / 208 V
PHASE: 3
WIRE: 4 W
BUSSING: 400A
POLES: 42P

MAIN: 400/3
MOUNTING: SURFACE
AIC RATING: 22K
CONDUIT: 4"
FEEDER: 4 # 500KCMIL & 1 # 3 (G)

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
FCU-5 (1/2 HP)	H	1.20			20/1	43	44	30/1	1.66			H	FCU-1 (3/4HP) / EF-6
EF-1/FCU-6 (1/2 HP)	H		1.50		20/1	45	46	30/1		1.66		H	FCU-8 (3/4 HP) / EF-2
FCU-4 (1/2 HP)	H			1.20	20/1	47	48	30/1			1.66	H	FCU-2 (3/4 HP) / EF-5
EF-4/FCU-3 (1/2 HP)	H	1.50			20/1	49	50	20/1	1.00			R	COMPUTER RACK
FCU-9 (1/2 HP)	H		1.20		20/1	51	52	30		2.50		M	DRYER
EF-7/FCU-7 (3/4 HP)	H			1.85	30/1	53	54	2			2.50	M	
SPACE						55	56						SPACE
						57	58						
						59	60						
						61	62						
						63	64						
						65	66						
						67	68						
						69	70						
						71	72						
						73	74						
						75	76						
						77	78						
						79	80	125	11.80			H	
						81	82	--		11.80		H	CHILLER CH-1
						83	84	3			11.80	H	
		2.70	2.70	3.05					14.46	15.96	15.96		

DEMAND LOAD SUMMARY		CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M":	NON-CONTINUOUS / MISC. LOADS	5.00	100%	5.00
TYPE "L":	LIGHTING / CONTINUOUS LOADS	0.00	125%	0.00
TYPE "R":	RECEPTACLES (FIRST 10KVA)	1.00	100%	1.00
TYPE "R":	RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H":	HVAC / MECHANICAL LOADS	48.83	100%	48.83
	TOTALS:	54.83		54.83

SECTION 1
PHASE A: 14.51 KVA
PHASE B: 14.83 KVA
PHASE C: 14.56 KVA
TOTAL: 43.90 KVA

SECTION 2
PHASE A: 17.16 KVA
PHASE B: 18.66 KVA
PHASE C: 19.01 KVA
TOTAL: 54.83 KVA

282.00 MAX AMPS / PHASE

LIGHTING FIXTURE SCHEDULE

Type	Mfgr.	Catalog Number	Volts	Lamping	Watts	Ballast	Description	Mounting	Detail #
A	FINELITE	S2-12-2TB-SC-120-AC	120	2-F032T8	170	2-ELEC.	PERFORATED METAL DIRECT/INDIRECT	SUSPENDED	2
A1	FINELITE	S2-8-2TB-SC-120-AC	120	2-F032T8	109	1-ELEC.	SAME AS TYPE 'A'	SUSPENDED	2
B	DABCO	3764-WH	120	4-26W PLC	102	1-ELEC.	24" SURFACE ACRYLIC BOWL	SURFACE	3
B1	DABCO	3764-WH-DIM	120	4-26W PLC	102	ELEC. DIMMING	SAME AS 'B' EXCEPT DIMMING BALLAST	SURFACE	3
C	COLUMBIA	4PS24-232G-RA-DR12-EB8-SLL	120	2-F032T8	58	1-ELEC.	2X4 LAY-IN TROFFER W/ DR ACRYLIC LENS	RECESSED	1
C1	COLUMBIA	4PS24-332G-RA-A12.125-EB8-SLL	120	3-F032T8	84	1-ELEC.	2X4 LAY-IN TROFFER	RECESSED	1
D	COLUMBIA	WWN8-232-EB8120	120	4-F032T8	109	1-ELEC.	8' SURFACE WRAPAROUND	SURFACE	3
D1	COLUMBIA	WWN4-232-EB8120	120	2-F032T8	58	1-ELEC.	SAME AS 'D' EXCEPT 4'	SURFACE	3
E	COLUMBIA	CS8-232-EB8120-CSWG4	120	2-F032T8	59	1-ELEC.	8' - 2 LAMP STRIP	SURFACE	3
E1	COLUMBIA	CS4-232-EB8120-CSWG4	120	2-F032T8	59	1-ELEC.	4' - 2 LAMP STRIP	SURFACE	3
F	PRESCOLITE	CFT832EB-STF802-B24	120	1-42W TT	44	ELEC.	8" VERTICAL LAMP DOWNLIGHT	RECESSED	4
G	PRESCOLITE	CFT832EB-STF802-B24	120	1-26W TT	29	ELEC.	8" VERTICAL LAMP DOWNLIGHT	RECESSED	4
H	ALKCO	SFLNCS150-048/ECB	120	1-F032T8	30	ELEC.	EXTRUDED UNDERCOUNTER	SURFACE	
I	COLUMBIA	WMP2TB-PERF-WM-EB8-MW-8	120	4-F032T8	111	1-ELEC.	STEEL PERF. METAL WALL INDIRECT	SURFACE	5
J	DAVIS/MULLER	P-1123-1-36-S-(8)026-SA/SWV-SN	120	8-26W PLC	204	ELEC.	36" DIA. ACRYLIC PENDANT	PENDANT	2
K	COLUMBIA	4PS14-232-RA-A12.125-EB8-SLL	120	2-F032T8	58	1-ELEC.	1X4 LAY-IN TROFFER	RECESSED	1
L	DAVIS/MULLER	S-2210-1-0-(1)026-SA-1-SN	120	1-26W PLC	29	ELEC.	14" DIA. ACRYLIC SCONCE	SURFACE	5
M	KIM	FM-MX21PF5-150HPS120-WHP RSS164120 FM WHP	120	1-150W HPS	198	CWA	CAST VERTICAL LAMP POLE MTD. LUMINAIRE	POLE	6
N	KIM	1A-MX21A3-150HPS120-WHP RSS 204120 A WHP	120	1-150W HPS	198	CWA	CAST VERTICAL LAMP POLE MTD. LUMINAIRE	POLE	7
O	NOT USED								
P	SPAULDING	WLR1-S50-120-PC-DBZ	120	1-50W HPS	55	MAGNETIC	POLYCARBONATE WALL PACK	SURFACE	NA
X	PRESCOLITE	EDC-1-G-EN-W	120	LED	10	NA	CAST LED EXIT SIGN	SURFACE	NA

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REVISIONS: (△ INDICATES REVISIONS MADE TO THIS SHEET)

NO.:	DATE	REASON	BY

ISSUE FOR PROGRESS REVIEW	1/15/01
ISSUE FOR PLAN CHECK	1/25/01
ISSUE FOR FINAL REVIEW	5/9/01
ISSUE FOR BID	
ISSUE FOR CONSTRUCTION	

SEAL: LICENSED ARCHITECT RICHARD CIANFICHI No. C-8510 REN. 10-31-01 STATE OF CALIFORNIA

ARCHITECT: CONSULTANT:

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CANADA COLLEGE
4200 FARM HILL BLVD.
REDWOOD CITY, CA 94061
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

STAMP:
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL.01 10529
APPL. NUMBER:

KEY PLAN:

AS-BUILTS

SHEET TITLE:
ELECTRICAL ONE LINE DIAGRAM, PANEL SCHEDULES AND FIXTURE SCHED.

DRAWN BY: AK	PROJECT NO.: 304.99
CHECKED BY: FR	DATE: 01-25-2001
APPL NO.:	SHEET: E-0.3
DATA NO.:	NO.: OF: