ROOSEVELT PROJECT NO. 270.032

VOLTS 120/208
PHASE 3PH, 4W
MTG SURFACE

PANELBOARD PK1
LOCATION CUSTODIAN #5

MAIN L.O.
BUS 200A/3P

CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	2736	-----	-----	K	40/3	1	REFRIGERATION SYSTEM	A	2	276	-----	-----	K	20/1	1	WALK IN COOLER
3	-----	2736	-----	K	--	-	---------	B	4	-----	276	-----	K	20/1	1	WALK IN COOLER
5	-----	-----	2736	K	--	-	---------	C	6	-----	-----	1196	K	20/2	1	EVAPORATOR COIL
7	1130	-----	-----	K	20/1	1	INSECT CONTROL FAN	A	8	1196	-----	-----	K	--	-	---------
9	-----	1000	-----	K	20/1	1	X1-EXHAUST HOOD	B	10	-----	516	-----	K	20/1	1	EVAPORATOR COIL
11	-----	-----	720	K	20/1	1	X1-CONVECTION OVEN	C	12	-----	-----	2000	K	20/1	1	HEATED CABINET
13	720	-----	-----	K	20/1	1	X1-CONVECTION OVEN	A	14	3216	-----	-----	K	40/3	1	DISHWASHER
15	-----	500	-----	K	20/1	1	D.W. EXHAUST HOOD	B	16	-----	3216	-----	K	--	-	---------
17	-----	-----	510	M	20/1	1	EF-21	C	18	-----	-----	3216	K	--	-	---------
19	900	-----	-----	K	20/3	1	DISPOSER	A	20	6498	-----	-----	K	60/3	1	BOOSTER HEATER
21	-----	900	-----	K	--	-	---------	B	22	-----	6498	-----	K	--	-	---------
23	-----	-----	900	K	--	-	---------	C	24	-----	-----	6498	K	--	-	---------
25	1498	-----	-----	K	20/2	1	HOT FOOD COUNTER	A	26	70	-----	-----	M	15/2	1	FC-8
27	-----	1498	-----	K	--	-	---------	B	28	-----	70	-----	M	--	-	---------
29	-----	-----	100	G	20/1	2	*SMOKE/FIRE DAMPER	C	30	-----	-----	70	M	15/2	1	FC-7
31	360	-----	-----	R	20/1	2	SHADE RECEPTACLES	A	32	70	-----	-----	M	--	-	---------
33	-----		-----				PROVISION	B	34	-----	100	-----	G	20/1	1	* GAS SOLENOID
35	-----	-----					PROVISION	C	36	-----	-----	200	G	20/1	1	* FSR BELL
37		-----	-----				PROVISION	A	38		-----	-----		20/1		SPARE
39	-----		-----				PROVISION	B	40	-----		-----		20/1		SPARE
41	-----	-----					PROVISION	C	42	-----	-----			20/1		SPARE

CONNECTED:
VA AMPS
PHASE A = 18670 156
PHASE B = 17310 144
PHASE C = 18146 151
TOTAL = 54126 150

L.C.L. @ 125% = 0
RECEPT. ( ) 10 kVA @ 50%) = 360
KITCHEN @ 65% = 34174
OTHER LOAD @ 100% = 1190
TOTAL VA = 35724
TOTAL AMPS = 99

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)

* PROVIDE LOCK-ON DEVICE ON CIRCUIT BREAKER. LABEL 'FIRE ALARM'.

X1 - PROVIDE MULTI-POLE CONTACTOR TO CONTROL EQUIPMENT UNDER KITCHEN HOOD. CONNECT TO FIRE SUPPRESION SYSTEM.

ROOSEVELT PROJECT NO. 270.032

VOLTS 277/480
PHASE 3PH, 4W
MTG SURFACE

PANELBOARD DPHK
LOCATION ELECT. ROOM #4

MAIN 400A/3P
BUS 400A

CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	28470	-----	-----	G	200/3	1	TRANSFORMER KXMR	A	2	18798	-----	-----	L	225/3	1	PANELBOARD HC1
3	-----	26326	-----	G	--	-	---------	B	4	-----	16556	-----	L	--	-	---------
5	-----	-----	27772	G	--	-	---------	C	6	-----	-----	15380	L	--	-	---------
7	1975	-----	-----	L	100/3	1	PANELBOARD HK1	A	8	2936	-----	-----	M1	20/3	1	AC-40
9	-----	2916	-----	L	--	-	---------	B	10	-----	2936	-----	M1	--	-	---------
11	-----	-----	460	L	--	-	---------	C	12	-----	-----	2936	M1	--	-	---------
13		-----	-----				PROVISION	A	14	1915	-----	-----	M1	20/3	1	MUA-1
15	-----		-----				PROVISION	B	16	-----	1915	-----	M1	--	-	---------
17	-----	-----					PROVISION	C	18	-----	-----	1915	M1	--	-	---------
19		-----	-----				PROVISION	A	20		-----	-----				PROVISION
21	-----		-----				PROVISION	B	22	-----		-----				PROVISION
23	-----	-----					PROVISION	C	24	-----	-----					PROVISION
25		-----	-----				PROVISION	A	26		-----	-----				PROVISION
27	-----		-----				PROVISION	B	28	-----		-----				PROVISION
29	-----	-----					PROVISION	C	30	-----	-----					PROVISION
31		-----	-----				PROVISION	A	32		-----	-----				PROVISION
33	-----		-----				PROVISION	B	34	-----		-----				PROVISION
35	-----	-----					PROVISION	C	36	-----	-----					PROVISION
37		-----	-----				PROVISION	A	38		-----	-----				PROVISION
39	-----		-----				PROVISION	B	40	-----		-----				PROVISION
41	-----	-----					PROVISION	C	42	-----	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 54094 195
PHASE B = 50649 183
PHASE C = 48463 175
TOTAL =153206 184

L.C.L. @ 125% = 88298
RECEPT. ( ) 10 kVA @ 50%) = 0
KITCHEN @ 65% = 0
OTHER LOAD @ 100% = 82568
TOTAL VA = 170866
TOTAL AMPS = 206

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)

ROOSEVELT PROJECT NO. 270.032

VOLTS 120/208
PHASE 3PH, 4W
MTG SURFACE

PANELBOARD PK2
LOCATION CUSTODIAN #5

MAIN L.O.
BUS 125A/3P

CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	884	-----	-----	M1	20/2	1	CU-8	A	2	1000	-----	-----	G	20/1	2	COMPUTER RECEPTS.
3	-----	884	-----	M1	--	-	---------	B	4	-----	720	-----	R	20/1	4	CONV. RECEPTS.
5	-----	-----	720	R	20/1	4	ROOF RECEPTS.	C	6	-----	-----	720	R	20/1	4	CONV. RECEPTS.
7	888	-----	-----	M1	20/2	1	CU-7	A	8	552	-----	-----	K	20/1	1	MILK COOLER
9	-----	884	-----	M1	--	-	---------	B	10	-----	1080	-----	R	20/1	6	CONV. RECEPTS.
11	-----	-----	500	G	20/1	1	CP-1	C	12	-----	-----	500	G	20/1	1	IDFK
13	670	-----	-----	M	20/1	1	EF-23	A	14	500	-----	-----	G	20/1	1	EMSK
15	-----		-----		20/1		SPARE	B	16	-----	500	-----	G	20/1	1	IDK
17	-----	-----	670	M	20/1	1	EF-22	C	18	-----	-----	500	G	20/1	1	FXPK
19		-----	-----				PROVISION	A	20		-----	-----				PROVISION
21	-----		-----				PROVISION	B	22	-----		-----				PROVISION
23	-----	-----					PROVISION	C	24	-----	-----					PROVISION
25		-----	-----				PROVISION	A	26		-----	-----				PROVISION
27	-----		-----				PROVISION	B	28	-----		-----				PROVISION
29	-----	-----					PROVISION	C	30	-----	-----					PROVISION
31		-----	-----				PROVISION	A	32		-----	-----				PROVISION
33	-----		-----				PROVISION	B	34	-----		-----				PROVISION
35	-----	-----					PROVISION	C	36	-----	-----					PROVISION
37		-----	-----				PROVISION	A	38		-----	-----				PROVISION
39	-----		-----				PROVISION	B	40	-----		-----				PROVISION
41	-----	-----					PROVISION	C	42	-----	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 4494 37
PHASE B = 4068 34
PHASE C = 3610 30
TOTAL = 12172 34

L.C.L. @ 125% = 4425
RECEPT. ( ) 10 kVA @ 50%) = 3240
KITCHEN @ 65% = 359
OTHER LOAD @ 100% = 4840
TOTAL VA = 12864
TOTAL AMPS = 36

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)

ROOSEVELT PROJECT NO. 270.032

VOLTS 120/208
PHASE 3PH, 4W
MTG SURFACE

PANELBOARD DPPK
LOCATION ELECT. ROOM #4

MAIN 600A/3P
BUS 600A

CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	5666	-----	-----	G	225/3	1	PANELBOARD PC1	A	2	18310	-----	-----	G	200/3	1	PANELBOARD PK1
3	-----	4948	-----	G	--	-	---------	B	4	-----	17310	-----	G	--	-	---------
5	-----	-----	6214	G	--	-	---------	C	6	-----	-----	17946	G	--	-	---------
7		-----	-----				PROVISION	A	8	4494	-----	-----	G	125/3	1	PANELBOARD PK2
9	-----		-----				PROVISION	B	10	-----	4068	-----	G	--	-	---------
11	-----	-----					PROVISION	C	12	-----	-----	3610	G	--	-	---------
13		-----	-----				PROVISION	A	14		-----	-----				PROVISION
15	-----		-----				PROVISION	B	16	-----		-----				PROVISION
17	-----	-----					PROVISION	C	18	-----	-----					PROVISION
19		-----	-----				PROVISION	A	20		-----	-----				PROVISION
21	-----		-----				PROVISION	B	22	-----		-----				PROVISION
23	-----	-----					PROVISION	C	24	-----	-----					PROVISION
25		-----	-----				PROVISION	A	26		-----	-----				PROVISION
27	-----		-----				PROVISION	B	28	-----		-----				PROVISION
29	-----	-----					PROVISION	C	30	-----	-----					PROVISION
31		-----	-----				PROVISION	A	32		-----	-----				PROVISION
33	-----		-----				PROVISION	B	34	-----		-----				PROVISION
35	-----	-----					PROVISION	C	36	-----	-----					PROVISION
37		-----	-----				PROVISION	A	38		-----	-----				PROVISION
39	-----		-----				PROVISION	B	40	-----		-----				PROVISION
41	-----	-----					PROVISION	C	42	-----	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 28470 237
PHASE B = 26326 219
PHASE C = 27770 231
TOTAL = 82566 229

L.C.L. @ 125% =
RECEPT. ( ) 10 kVA @ 50%) =
KITCHEN @ 65% =
OTHER LOAD @ 100% = 82566
TOTAL VA = 82566
TOTAL AMPS = 229

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)

ROOSEVELT PROJECT NO. 270.032

VOLTS 277/480
PHASE 3PH, 4W
MTG SURFACE

PANELBOARD EHK
LOCATION CUSTODIAN #5

MAIN
BUS 100A/3P

CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	105	-----	-----	L	20/1	7	*BUILDING C EXIT SIGNS	A	2	90	-----	-----	L	20/1	6	*BUILDING G EXIT SIGNS
3	-----	165	-----	L	20/1	11	*BUILDING C EMERG. EGRESS LTG.	B	4	-----	210	-----	L	20/1	6	*BUILDING G EMERG. EGRESS LTG.
5	-----	-----	90	L	20/1	2	X1-BUILDING C EXT. EGRESS LTG.	C	6	-----	-----	225	L	20/1	2	X1-BUILDING G EXT. EGRESS LTG.
7	75	-----	-----	L	20/1	5	*BUILDING K EXIT SIGNS	A	8	270	-----	-----	L	20/1	6	LIGHTING
9	-----	140	-----	L	20/1	4	*BUILDING K EMERG. EGRESS LTG.	B	10	-----	360	-----	R	20/1	2	RECEPTACLES
11	-----	-----	225	L	20/1	5	X1-BUILDING K EXT. EGRESS LTG.	C	12	-----	-----	500	G	20/1	1	BATTERY CHARGER
13		-----	-----		20/1		SPARE	A	14	500	-----	-----	G	20/1	1	JACKET HEATER
15	-----		-----		20/1		SPARE	B	16	-----		-----		20/1		SPARE
17	-----	-----			20/1		SPARE	C	18	-----	-----			20/1		SPARE
19		-----	-----				PROVISION	A	20		-----	-----				PROVISION
21	-----		-----				PROVISION	B	22	-----		-----				PROVISION
23	-----	-----					PROVISION	C	24	-----	-----					PROVISION
25		-----	-----				PROVISION	A	26		-----	-----				PROVISION
27	-----		-----				PROVISION	B	28	-----		-----				PROVISION
29	-----	-----					PROVISION	C	30	-----	-----					PROVISION
31		-----	-----				PROVISION	A	32		-----	-----				PROVISION
33	-----		-----				PROVISION	B	34	-----		-----				PROVISION
35	-----	-----					PROVISION	C	36	-----	-----					PROVISION
37		-----	-----				PROVISION	A	38		-----	-----				PROVISION
39	-----		-----				PROVISION	B	40	-----		-----				PROVISION
41	-----	-----					PROVISION	C	42	-----	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 1040 4
PHASE B = 875 3
PHASE C = 1040 4
TOTAL = 2955 4

L.C.L. @ 125% = 1994
RECEPT. ( ) 10 kVA @ 50%) = 360
KITCHEN @ 65% = 0
OTHER LOAD @ 100% = 1000
TOTAL VA = 3354
TOTAL AMPS = 4

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)

X1 - INDICATES CIRCUIT CONTROLLED BY MULTI-POLE RELAY OPERATED BY PHOTOCELL ON/PHOTOCELL OFF FUNCTION OF EXTERIOR LIGHTING CONTROLLER.
MOUNT RELAY IN A SEPARATE BARRIERED COMPARTMENT.

* PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE.

ROOSEVELT PROJECT NO. 270.032

VOLTS 277/480
PHASE 3PH, 4W
MTG SURFACE

PANELBOARD HK1
LOCATION BUILDING K ROOM 4

MAIN L.O.
BUS 100A

CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	A	B	C	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	595	-----	-----	L	20/1	11	SERVING LINE LTG.	A	2	920	-----	-----	L	20/2	2	X1-PARKING LOT LTG.
3	-----	1216	-----	L	20/1	18	KITCHEN LTG.	B	4	-----	920	-----	L	--	-	X1---------
5	-----	-----	600	L	20/1	12X2-	SHADE STRUCT. LIGHTS	C	6	-----	-----	460	L	20/2	2	X2-PARKING LOT LTG.
7		-----	-----		20/1		SPARE	A	8	460	-----	-----	L	--	-	X2---------
9	-----		-----		20/1		SPARE	B	10	-----	780	-----	L	20/1	6	X1-WALKWAY LTS.
11	-----	-----			20/1		SPARE	C	12	-----	-----	300	L	20/1	6	X2-COVERED WALKWAY LTG.
13		-----	-----		20/1		SPARE	A	14		-----	-----		20/1		SPARE
15	-----		-----		20/1		SPARE	B	16	-----		-----		20/1		SPARE
17	-----	-----			20/1		SPARE	C	18	-----	-----			20/1		SPARE
19		-----	-----				PROVISION	A	20		-----	-----				PROVISION
21	-----		-----				PROVISION	B	22	-----		-----				PROVISION
23	-----	-----					PROVISION	C	24	-----	-----					PROVISION
25		-----	-----				PROVISION	A	26		-----	-----				PROVISION
27	-----		-----				PROVISION	B	28	-----		-----				PROVISION
29	-----	-----					PROVISION	C	30	-----	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 1975 7
PHASE B = 2916 11
PHASE C = 1360 5
TOTAL = 6251 8

L.C.L. @ 125% = 7814
RECEPT. ( ) 10 kVA @ 50%) =
KITCHEN @ 65% =
OTHER LOAD @ 100% =
TOTAL VA = 7814
TOTAL AMPS = 9

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) X - X-RAY (100%)
(10 kVA @ 100%) X1 - X-RAY (50%)
K - KITCHEN (65%)

X1 ? INDICATES CIRCUIT CONTROLLED BY MULTI-POLE RELAY OPERATED BY PHOTOCELL ON / PHOTOCELL OFF FUNCTION OF THE ENERGY MANAGEMENT SYSTEM.
MOUNT RELAYS IN LIGHTING TERMINAL CABINET LCK.

X2 ? INDICATES CIRCUIT CONTROLLED BY MULTI-POLE RELAY OPERATED BY PHOTOCELL ON / TIMECLOCK OFF FUNCTION OF THE ENERGY MANAGEMENT SYSTEM.
MOUNT RELAYS IN LIGHTING TERMINAL CABINET LCK.

PK1	DPHK
PK2	DPPK
EHK	HK1

LICENSED ARCHITECT
JAMES M. STINSON
C19098
RENEWAL 02/28/
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
STEPHEN R. ZAJICEK
No. E 10372
Exp. 09-30-12
ELECTRICAL
STATE OF CALIFORNIA

FBA Engineering
Consulting Electrical Engineers
3420 Irvine Avenue Suite 200
Newport Beach, California 92660-3189
TEL: 949 852 9995 FAX: 949 852 1657
EMAIL: fba@fbaengineering.net
FBA # 270.032

REVISIONS	DATE
-	-
-	-
-	-
-	-
-	-

P S W C GROUP
ARCHITECTS / PLANNERS
1887 BUSINESS CENTER DR., SUITE 3, SAN BERNARDINO, CA. 92408
909/890-2233 FAX. 909/890-2644

ROOSEVELT II
ELEMENTARY SCHOOL
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
1261 W. 16TH STREET, SAN BEERNARDINO, CA.

KITCHEN PANEL SCHEDULES

JOB NO. P520
DRAWN BY FBA
DATE 12/8/2011

E-K.4

RE-BID #F09-02 ROOSEVELT II (HENRY) E.S. NEW CONSTRUCTION BID ISSUANCE SET 12/09/11

Filename: I:\270\032\E-K.4.dwg (jmusick)
Dimscale: 1=1(PS) Date: DEC 07, 2011 Time: 1:49 PM
Xrefs: TITLEBLOCK