WIRING LEGEND:

△ \ ▽QS CONTROL LINK (*SEE BELOW)

▲ \ ▼QS CONTROL LINK (*SEE BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH:

Control Link Length	Wire Gauge	Available from Lutron in one cable:
Less than 500ft (153m) use:△ or ▲	Power (terminals 1&2): 1 pair 18 AWG (1.0mm²)	GRX-CBL-346S or GRX-PCBL-346S
	Data (terminals 3&4): 1 pair 22 AWG (0.5mm²), twisted and shielded*	
500ft (153m) to 2000ft (610m)** use:▽ or ▼	Power (terminals 1&2): 1 pair 12 AWG (1.0mm²)	GRX-CBL-46L or GRX-PCBL-46L
	Data (terminals 3&4): 1 pair 22 AWG (0.5mm²), twisted and shielded*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5MM²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9461).

**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2000FT (610M).

***QS LINK CAN HAVE A MAXIMUM OF 99 DEVICES, 100 ZONES, AND 512 SWITCH LEGS.

□ NORMAL INPUT POWER

◪ NORAML/EMERGENCY INPUT POWER

● 2 #12AWG

◇ ECOSYSTEM BUS:
LUTRON CABLE C-CBL-216-GR-1 (2 #16 CONDUCTOR NON-PLENUM) OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #16 AWG BY OTHERS.

△E CAT5E OR BETTER CABLE FOR DEDICATED LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (TO BE PROVIDED BY OTHERS). 328 FEET (100M) MAXIMUM RUN.

◆ 0-10V SIGNAL 2 #18

WIRING NOTES:

QS CONTROL LINK

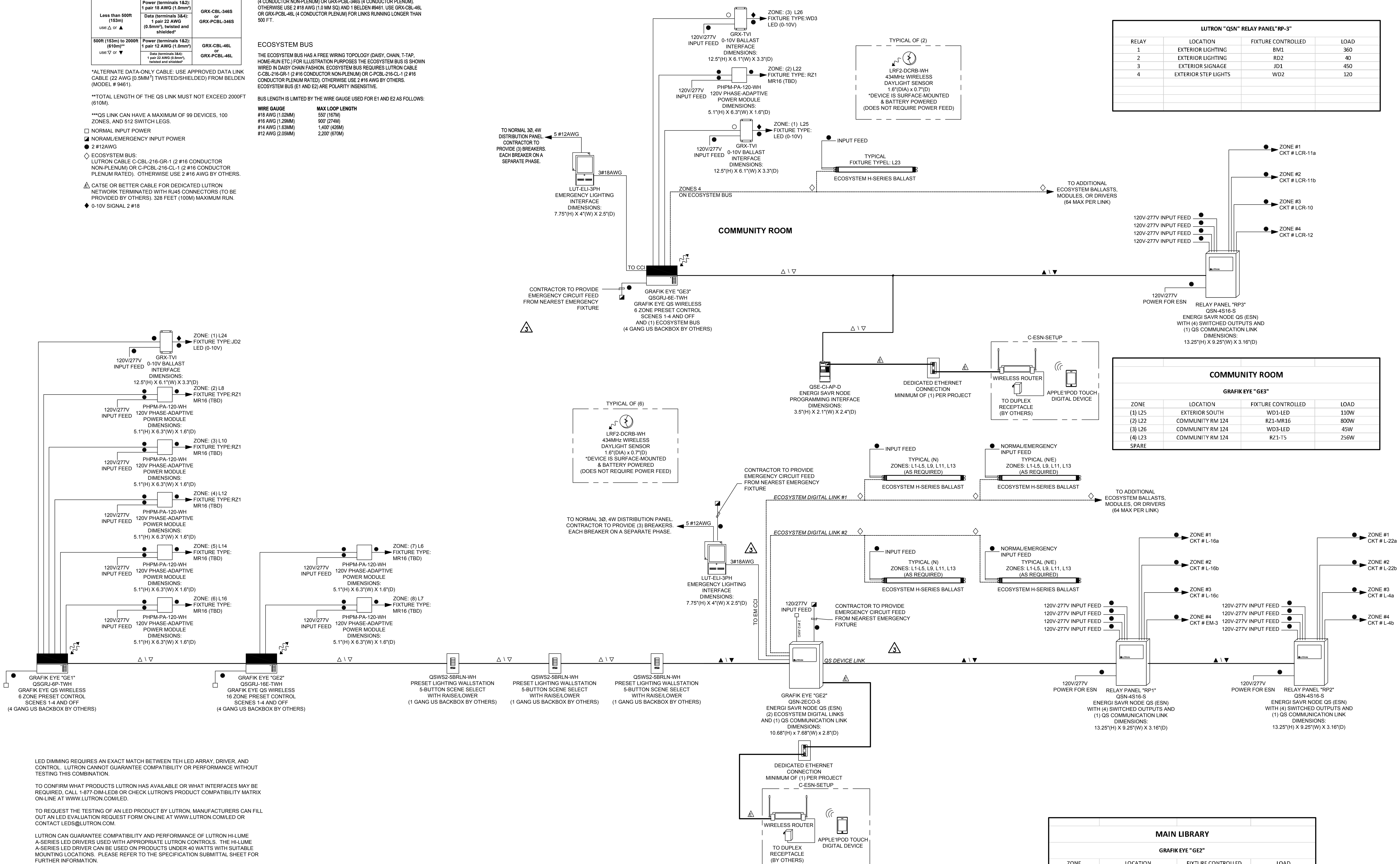
THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC.) FOR ILLUSTRATION PURPOSES THE QS CONTROL LINK IS SHOWN WIRED IN THE DAISY CHAIN FASHION. ADDITIONALLY, CONTROLS HAVE BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. CHECK POWER REQUIREMENTS BEFORE MODIFYING DEVICE WIRING ORDER. USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM) OR GRX-PCBL-346S (4 CONDUCTOR PLENUM). OTHERWISE USE 2 #18 AWG (1.0 MM SQ) AND 1 BELDEN #9461. USE GRX-CBL-46L OR GRX-PCBL-46L (4 CONDUCTOR PLENUM) FOR LINKS RUNNING LONGER THAN 500 FT.

ECOSYSTEM BUS

THE ECOSYSTEM BUS HAS A FREE WIRING TOPOLOGY (DAISY, CHAIN, T-TAP, HOME-RUN ETC.) FOR ILLUSTRATION PURPOSES THE ECOSYSTEM BUS IS SHOWN WIRED IN DAISY CHAIN FASHION. ECOSYSTEM BUS REQUIRES LUTRON CABLE C-CBL-216-GR-1 (2 #16 CONDUCTOR NON-PLENUM) OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #16 AWG BY OTHERS. ECOSYSTEM BUS (E1 AND E2) ARE POLARITY INSENSITIVE.

BUS LENGTH IS LIMITED BY THE WIRE GAUGE USED FOR E1 AND E2 AS FOLLOWS:

WIRE GAUGE	MAX LOOP LENGTH
#18 AWG (1.02MM)	550' (167M)
#16 AWG (1.29MM)	900' (274M)
#14 AWG (1.63MM)	1,400' (426M)
#12 AWG (2.05MM)	2,200' (670M)



LUTRON "QSN" RELAY PANEL"RP-3"			
RELAY	LOCATION	FIXTURE CONTROLLED	LOAD
1	EXTERIOR LIGHTING	BM1	360
2	EXTERIOR LIGHTING	RD2	40
3	EXTERIOR SIGNAGE	JD1	450
4	EXTERIOR STEP LIGHTS	WD2	120

COMMUNITY ROOM

GRAFIK EYE "GE3"

ZONE	LOCATION	FIXTURE CONTROLLED	LOAD
(1) L25	EXTERIOR SOUTH	WD1-LED	110W
(2) L22	COMMUNITY RM 124	RZ1-MR16	800W
(3) L26	COMMUNITY RM 124	WD3-LED	45W
(4) L23	COMMUNITY RM 124	RZ1-T5	256W
SPARE			

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN TEH LED ARRAY, DRIVER, AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LED8 OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON, MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP THE USER'S DISCRETION.

IS USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

LUTRON QSN RELAY PANEL "RP-1"			
RELAY	LOCATION	FIXTURE CONTROLLED	LOAD
1	WORK ROOM 102	RZ1A-T5	102W
2	WORK ROOM 102	RZ1A-MR16	400W
3	WORK ROOM 102	DT1/RD1-CFL	435W
4	WORK ROOM 102	RZ1A/RD1-T5/CFL	195W

LUTRON QSN RELAY PANEL "RP-2"			
RELAY	LOCATION	FIXTURE CONTROLLED	LOAD
1	EXTERIOR SOUTH	RD2-LED	60W
2	EXTERIOR EAST	RF1-T5/RF3-T5	252W
3	EXTERIOR WEST	RD2-LED	60W
4	EXTERIOR WEST CANOPY	FF1-T5/RF3-T5	224W

MAIN LIBRARY

GRAFIK EYE "GE1"

ZONE	LOCATION	FIXTURE CONTROLLED	LOAD
L24	EXTERIOR LIGHTING	JD2-LED	427W
L8	CHILDRENS LIB. 120/	RZ1-MR16	400W
-	POPULAR MATERIALS 121	-	-
L10	CHILDRENS LIB. 120/	RZ1-MR16	800W
-	POPULAR MATERIALS 121	-	-
L12	CHILDRENS LIB. 120/	RZ1-MR16	900W
-	POPULAR MATERIALS 121	-	-
L14	COMPUTER	RZ1-MR16	800W
L16	COLLECTION AND SEATING	RZ1-MR16	900W
-	103	-	

MAIN LIBRARY

GRAFIK EYE "GE2"

ZONE	LOCATION	FIXTURE CONTROLLED	LOAD
L1	CHILDRENS LIB. 120	WF3/WF3a-T5	378W
L2	POPULAR MATERIALS 121	WF3/WF1-T5	230W
L3	COMPUTER COMMONS 123	WF1-T5	240W
L4	COLLECTION AND SEATING 103	WF2a-T5	420W
L5	COLLECTION AND SEATING 103	WF1-T5	252W
L6	COMPUTER COMMONS 123	DT2-LED	17W
L7	COLLECTION AND SEATING 103	DT2a-LED	152W
L9	CHILDRENS LIB. 120	RZ1-T5	128W
L11	CHILDRENS LIB. 120	RZ1-T5	256W
L13	CHILDRENS LIB. 120/ POPULAR MATERIALS 121	RZ1-T5	288W
L15	COMPUTER COMMONS	RZ1-T5	256W
L17	COLLECTION AND SEATING 103	RZ1-T5	288W
L18	CHILDRENS LIB. 120	PC1-CF2	210W
L19	CUSTOMER SERVICE 122	PC1-CF2	150W
L20	COLLECTION AND SEATING 103	PC1-CF2	210W
L21	GROUP STUDY ROOMS	SF1/SF1a-T5	196W

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenbergArchitecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.
1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eizenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.

REGISTERED PROFESSIONAL ENGINEER JACOB CHAN No. E13358 Exp. 09/30/12 ELECTRICAL STATE OF CALIFORNIA

GLUMAC
617 W. 7th Street, Suite 500
Los Angeles, CA 90017
T. 213.239.8866 F. 213.239.8816
www.glumac.com
Job No.: 06.11.00192
Contact: E. LEE
engineers for a sustainable future™

CONSULTANT

City of Santa Monica
Architecture Services
1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

DATE : ______ 20 __
SUBMITTED BY :

DATE : ______ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : ______ 20 __

REVIEWED BY : DATE : ______ 20 __

REVIEWED BY : DATE : ______ 20 __

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
3	05/07/12		PLAN CHECK 1
2	03/06/12		ADDENDUM 3
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

PLAN CHECK CORRECTIONS

DATE
05/07/2012

DRAWING NO. **6693**

SHEET TITLE
LIGHTING CONTROL DIAGRAM △1

SHEET NO.
E5.2

SHEET OF

DWG. NO. : -

TITLE OF PROJECT :