

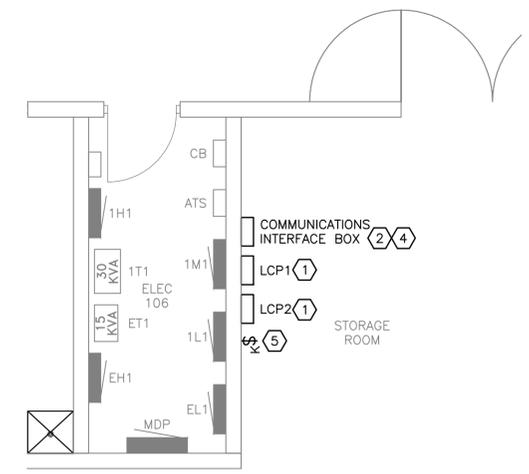
ELECTRICAL LIGHTING CONTROL PLAN - GARAGE FIRST FLOOR
 NORTH
 SCALE: 1" = 30'-0"

GENERAL NOTES

- EXISTING LIGHTING CIRCUITS ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL LIGHTING CIRCUITS AND ASSOCIATE LIGHTING CIRCUIT NUMBER WHERE POSSIBLE WITH SAME CONTROL RELAY NUMBER TO BE ROUTED THROUGH CONTROL PANELS LCP1 AND LCP2. UNUSED CONTROL RELAYS SHALL BE LABELED AS SPARE FOR FUTURE USE.
- PROVIDE A RELAY BASED LIGHTING CONTROL SYSTEM TO AUTOMATICALLY TURN LIGHTS OFF AND ON BASED ON GARAGE OCCUPANCY. THE SYSTEM SHALL INCLUDE RELAY PANEL(S) AND OCCUPANCY SENSORS. SEE SYSTEM CONTROL DIAGRAM ON E6.2. SYSTEM SHALL BE AS MANUFACTURED BY COOPER CONTROLS, GREENGATE CONTROLKEEPER OR APPROVED EQUAL.

KEYED NOTES

- PROVIDE DEDICATED 277 VOLT CIRCUITS FROM PANEL "1H1" TO FEED LIGHTING CONTROL PANEL "LCP1" AND FROM PANEL "EH1" TO FEED LIGHTING CONTROL PANEL "LCP2".
- PROVIDE A MINIMUM 20"H x 16"W x 10"D NON-METALLIC, LOCKABLE, HINGED ENCLOSURE TO HOUSE A NEMA 5-20R QUAD OUTLET TO POWER GATEWAY AND ETHERNET INTERFACE MODULE. GATEWAY SHALL BE SIMILAR TO COOPER CONTROL, GREENGATE MODEL "GATEWAY" AND ETHERNET INTERFACE MODULE SHALL BE SIMILAR TO COOPER CONTROLS, GREENGATE MODEL "EIM". PROVIDE A 1 POLE, 20 AMP CIRCUIT FROM AVAILABLE SPACE IN PANEL "1L1" INSIDE ELEC ROOM 106. 120 VOLT POWER SHALL BE RUN IN CONDUIT INSIDE NON-METALLIC ENCLOSURE TO DEVICE OUTLET BOX.
- PROVIDE A 1" CONDUIT FROM CONTROL PANEL LCP1 WITH A COMPOSIT CONTROL CABLE SIMILAR TO COOPER CONTROLS/GREENGATE CATALOG NUMBER "LCCNP" NON PLENUM RATED CABLE OR APPROVED EQUAL. CABLE CONSIST OF 2/C#18 FOR POWER, #22UTP FOR DATA, AND 1#24 GROUND.
- PROVIDE A 1" CONDUIT WITH PULL WIRE TO NEAREST COMMUNICATION CLOSET FOR CONTROL PANEL INTERFACE.
- PROVIDE A MASTER OVERRIDE SWITCH, SIMILAR TO GREENGATE KEYED SWITCH MODEL - "MAIN-KEY".
- PROVIDE INFRARED TECHNOLOGY OCCUPANCY AS MANUFACTURED BY COOPER CONTROLS GREENGATE MODEL # OXC-P-2MH0-R.



ENLARGED PARTIAL PLAN - GROUND FLOOR ROOM #106
 NORTH
 SCALE: 1/4" = 1'-0"



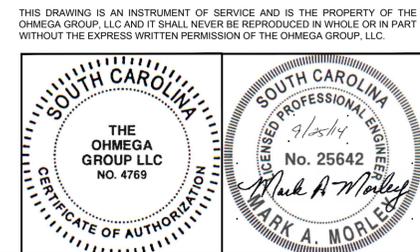
COLUMBIA METROPOLITAN AIRPORT RENTAL CAR READY/RETURN RELOCATION

REVISIONS		
No.	Date	Description

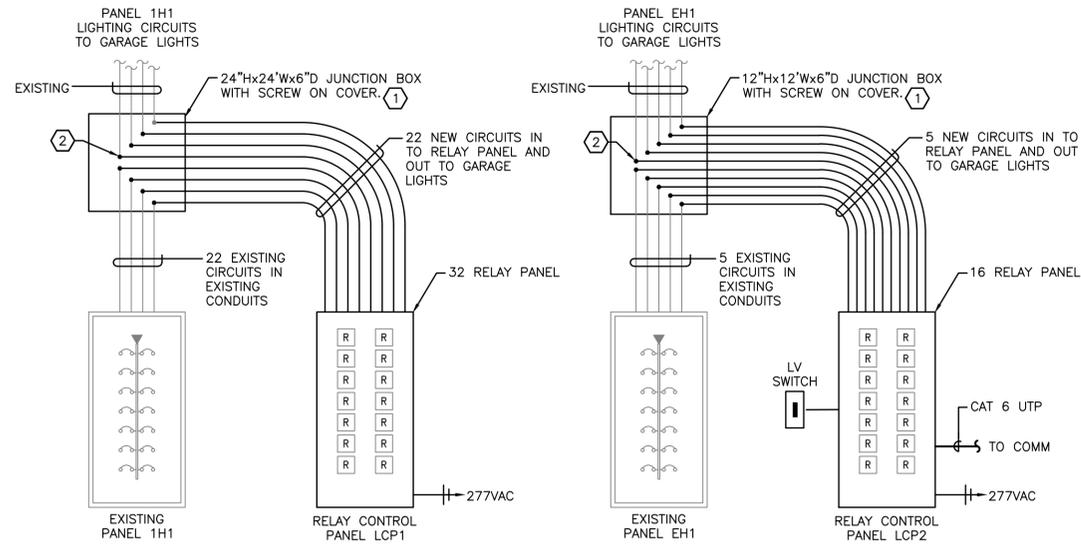
JOB NUMBER: 02393-0714
 DESIGNED BY: R. DEYO
 CHECKED BY: M. MORLEY
 DRAWN BY: R. DEYO
 CAD DATE: 09/25/2014

DRAWING NAME:
ELECTRICAL LIGHTING CONTROLS PLAN - GARAGE 1ST FLOOR

PROJECT NUMBER: 14C003.00
 PROJECT DATE: 9/25/14
 DRAWING NUMBER: **E2.0**



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LIGHTING CONTROL PANEL LCP1							
RELAY #	POWER PANEL CKT #	AREA CONTROLLED	CONTROLLED BY	RELAY #	POWER PANEL CKT #	AREA CONTROLLED	CONTROLLED BY
31	1H1-31	PARKING GARAGE GROUND LEVEL	OS	32	---	SPARE	---
29	1H1-29	PARKING GARAGE GROUND LEVEL	OS	30	---	SPARE	---
27	1H1-27	PARKING GARAGE GROUND LEVEL	OS	28	---	SPARE	---
25	1H1-25	PARKING GARAGE GROUND LEVEL	OS	26	---	SPARE	---
23	1H1-23	PARKING GARAGE GROUND LEVEL	OS	24	1H1-41	PARKING GARAGE GROUND LEVEL	OS
21	1H1-21	PARKING GARAGE GROUND LEVEL	OS	22	1H1-39	PARKING GARAGE GROUND LEVEL	OS
19	1H1-19	PARKING GARAGE GROUND LEVEL	OS	20	1H1-37	PARKING GARAGE GROUND LEVEL	OS
17	1H1-17	PARKING GARAGE GROUND LEVEL	OS	18	1H1-35	PARKING GARAGE GROUND LEVEL	OS
15	1H1-15	PARKING GARAGE GROUND LEVEL	OS	16	1H1-33	PARKING GARAGE GROUND LEVEL	OS
13	1H1-13	PARKING GARAGE GROUND LEVEL	OS	14	1H1-14	PARKING GARAGE GROUND LEVEL	OS
11	1H1-11	PARKING GARAGE GROUND LEVEL	OS	12	---	SPARE	---
9	1H1-9	PARKING GARAGE GROUND LEVEL	OS	10	---	SPARE	---
7	1H1-7	PARKING GARAGE GROUND LEVEL	OS	8	---	SPARE	---
5	1H1-5	PARKING GARAGE GROUND LEVEL	OS	6	---	SPARE	---
3	1H1-3	PARKING GARAGE GROUND LEVEL	OS	4	---	SPARE	---
1	1H1-1	PARKING GARAGE GROUND LEVEL	OX	2	---	SPARE	---

LIGHTING CONTROL PANEL LCP2							
RELAY #	POWER PANEL CIRCUIT NO.	AREA CONTROLLED	CONTROLLED BY	RELAY #	POWER PANEL CIRCUIT NO.	AREA CONTROLLED	CONTROLLED BY
15	---	SPARE	---	16	---	SPARE	---
13	EH1-13	PARKING GARAGE GROUND LEVEL	OS	14	---	SPARE	---
11	EH1-11	PARKING GARAGE GROUND LEVEL	OS	12	---	SPARE	---
9	---	SPARE	---	10	---	SPARE	---
7	EH1-7	PARKING GARAGE GROUND LEVEL	OS	8	---	SPARE	---
5	EH1-5	PARKING GARAGE GROUND LEVEL	OS	6	---	SPARE	---
3	---	SPARE	---	4	---	SPARE	---
1	EH1-1	PARKING GARAGE GROUND LEVEL	OS	2	---	SPARE	---

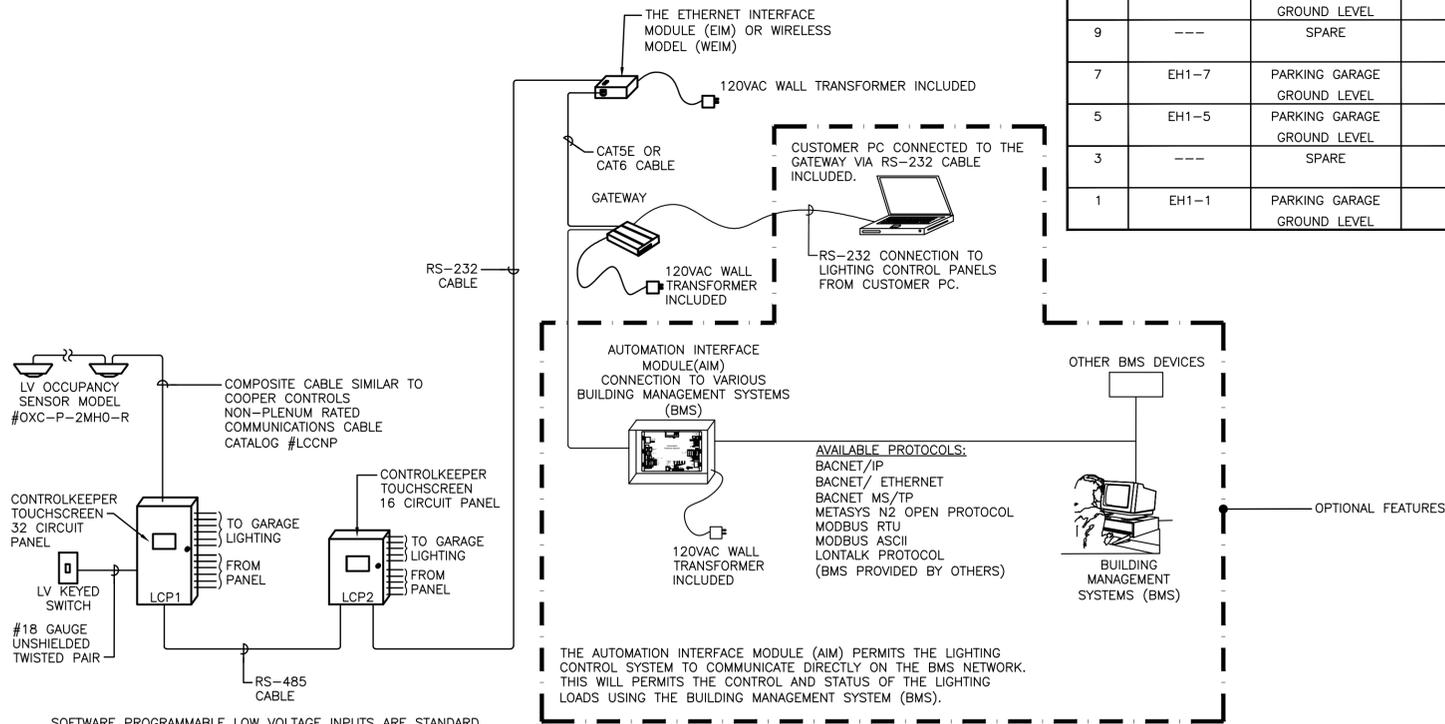
KEYED NOTES

- (1) BOXES HAVE BEEN SIZED BASE ON 1" HOMERUN CONDUITS. CONTRACTOR SHALL FIELD VERIFY ACTUAL SIZES OF LIGHTING CIRCUITS CONDUITS AND SIZE BOX PER NEC. ART. 314.28.
- (2) TYPICAL SPLICING CONNECTION OF EXISTING LIGHTING CIRCUIT GOING IN TO AND OUT OF RELAY CONTROL PANEL.

LIGHTING CONTROL GENERAL NOTES

1. BASIS OF DESIGN FOR THE LIGHTING CONTROL RELAY PANEL IS COOPER CONTROLS, GREENGATE CONTROLKEEPER TOUCHSCREEN SYSTEM, OR EQUAL SYSTEMS SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS,
 - A. UL LISTED - 916 STANDARD.
 - B. 32 LOW VOLTAGE INPUT CONNECTIONS.
 - C. DIGITAL SWITCH INTERFACE.
 - D. TIME SCHEDULED WITH ASTRONOMIC CLOCK.
 - E. PRIORITIZATION AND MASKING OF SWITCH INPUTS, TIME SCHEDULES AND REMOTES.
 - F. TIMED INPUTS.
 - G. OCCUPANT WARN-OFF AND OVERRIDES
 - H. TOUCHSCREEN.
 - J. RS-232 PORT STANDARD.
 - K. RS-485 NETWORK STANDING
 - L. 4 ANALOG INPUTS.
 - M. UL LISTED - UL 924 WITH RIM

1 ELECTRICAL RISER DIAGRAM
SCALE: NONE



SOFTWARE PROGRAMMABLE LOW VOLTAGE INPUTS ARE STANDARD ON THE CONTROLKEEPER LIGHTING CONTROL PANELS. EACH INPUT CAN BE PROGRAMMED TO CONTROL ANY RELAY OR GROUP OF RELAYS IN THE SYSTEM.

BASIS OF DESIGN IS THE COOPER CONTROLS / GREENGATE CONTROLKEEPER LIGHTING CONTROL SYSTEM AND ACCESSORIES.

NOTE: SHADED PORTIONS OF THIS RISER INDICATE AVAILABLE OPTIONS WHICH CAN BE IMPLEMENTED WITH THE ADDITION OF VARIOUS GREENGATE ACCESSORIES AND OR OWNER PROVIDED EQUIPMENT.

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REVISIONS

No.	Date	Description

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 CHECKED BY: M. MORLEY
 DRAWN BY: R. DEYO
 CAD DATE: 09/25/2014

DRAWING NAME:
ELECTRICAL LIGHTING CONTROL DIAGRAM

PROJECT NUMBER: 14C003.00
 PROJECT DATE: 9/25/14
 DRAWING NUMBER: **E6.2**

THE OHMEGA GROUP LLC
 No. 25642
 SOUTH CAROLINA PROFESSIONAL ENGINEER
 MARK A. MORLEY

2 LIGHTING CONTROL SYSTEM DIAGRAM
SCALE: NONE



COLUMBIA METROPOLITAN AIRPORT
 RENTAL CAR READY/RETURN
 RELOCATION