## LIGHTING CONTROL SYSTEM NOTES:

1. SYSTEM OVERVIEW:

   A. SYSTEM SHALL BE AN LCD GR1404 SERIES PRE–MANUFACTURED LIGHTING CONTROL PANEL, PRE–WIRED AT FACTORY AND FACTORY PRE–PROGRAMMED.

   B. LIGHTING CONTROL PANEL AND CONTROL SWITCHES SHALL BE FURNISHED BY THE OWNER FOR THE COMPLETE INSTALLATION BY THE ELCTRICAL SUB–CONTRACTOR

   C. ELECTRICAL SUB–CONTRACTOR SHALL PROVIDE THE INSTALLATION, COMMISSIONING, LCD CHECKOUT, DEMONSTRATION, AND TRAINING FOR THE LIGHTING CONTROL SYSTEM.

2. INSTALLATION AND COORDINATION:

   A. THE ELECTRICAL SUB–CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION OF THE LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH THE PLANS AND THE MANUFACTURER'S REQUIREMENTS. THE INSTALLATION SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

   - MOUNT THE LIGHTING CONTROL PANEL(S) AT LOCATIONS INDICATED ON THE PLANS.
   - INSTALL THE REMOTE WALL MOUNT CONTROL SWITCH(ES) AT LOCATIONS INDICATED ON THE PLANS
   - PROVIDE THE CATEDORY 5e CABLING (IN CONDUIT) FROM THE CONTROL PANEL TO THE REMOTE WALL MOUNT CONTROL SWITCHES. CATEGORY 5e CABLING AND CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL SUB–CONTRACTOR.
   - PROVIDE THE OUTLET BOX AND RACEWAY FOR THE INSTALLATION OF THE TELEPHONE LINE AT THE LIGHTING CONTROL PANEL – TELEPHONE CABLE AND JACK SHALL BE INSTALLED BY THE OWNER'S TELEPHONE CABLING VENDOR.
   - PROVIDE 120VAC CONNECTION TO POWER THE LIGHTING CONTROL PANEL.
   - PROVIDE COMPLETE DEMONSTRATION AND TRAINING FOR SYSTEM OPERATION.
   - PROVIDE ALL CONTACT AND COORDINATION WITH LCD FOR REMOTE PROGRAMMING OF THE SYSTEM. CONFIRM THE FINAL PROGRAMMING IS IN ACCORDANCE WITH THE ELECTRICAL RECORD SET OF PLANS.
   - PROVIDE TECHNICAL SUPPORT FOR 1 YEAR FROM STORE OPENING. THIS SHALL INCLUDE TROUBLESHOOTING AND REPAIR AND RE–PROGRAMMING.

3. COMMISSIONING:

   A. THE ELECTRICAL SUB–CONTRACTOR SHALL BE RESPONSIBLE FOR START–UP AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEM AND SHALL COMPLETE THE FOLLOWING COMMISSIONING CHECKLIST:

| LIGHTING CONTROL COMMISSIONING CHECKLIST (TO BE PERFORMED BY THE E.C.) | DATE COMPLETE |
|---|---|
| ☐ CONTROL PANEL, REMOTE SWITCHES, AND CATEGORY 5e CABLING INSTALLED | |
| ☐ 120 VAC POWER PROVIDED AT PANEL. | |
| ☐ LIGHTING BRANCH CIRCUITS INSTALLED AND LIVE. | |
| ☐ TELEPHONE LINE INSTALLED AT CONTROL PANEL, CONNECTED TO CONTROL PANEL, AND PHONE NUMBER ASSIGNED AND LIVE. COORDINATE WITH WSI FOR PHONE NUMBER. | |
| ☐ CONTACT LCD AND PROVIDE THEM WITH THE TELEPHONE NUMBER OF THE LINE TO THE CONTROL PANEL. | |
| ☐ COORDINATE WITH LCD TO REMOTELY CONFIRM THE CONTROL PANEL IS OPERATING PROPERLY. | |
| ☐ HAVE LCD REMOTELY CONTROL EACH LIGHTING ZONE AND CONFIRM THE ASSIGNED LIGHT FIXTURES GROUPS ARE OPERATING PROPERLY. IF NOT, ADJUST THE BRANCH WIRING TO THE CONTROL RELAYS AS REQUIRED FOR PROPER ZONE CONTROL. | |
| ☐ ONE WEEK PRIOR TO STORE OPENING, REVISIT STORE TO CONFIRM LIGHTING CONTROL SYSTEM IS OPERATING PROPERLY. HAVE LCD CALLUP CONTROL PANEL AND REMOTELY CONFIRM THE CONTROL AND TIME SCHEDULE FOR EACH ZONE. WITNESS EACH ZONE OPERATION | |
| ☐ PROVIDE WRITTEN DOCUMENTATION TO GENERAL CONTRACTOR THAT COMMISSIONING AND CORRECTIVE ACTION IS COMPLETE. | |

4. DEMONSTRATION:

   A. PRIOR TO TURNOVER, ELECTRICAL SUB–CONTRACTOR SHALL SCHEDULE A TIME WITH THE GENERAL CONTRACTOR AND WSI TO DEMONSTRATE THE LIGHTING CONTROL SYSTEM OPERATION.

   B. ELECTRICAL SUB–CONTRACTOR SHALL DEMONSTRATE THE ENTIRE SYSTEM FOR THE GENERAL CONTRACTOR AND WSI. THIS SHALL INCLUDE CONTACTING LCD TO DEMONSTRATE THE REMOTE OPERATION OF THE LIGHTING ZONES. OBTAIN SIGNATURES CONFIRMING DEMONSTRATION HAS OCCURED:

   G.C. SIGNATURE/DATE _____

   WSI SIGNATURE/DATE _____

5. TRAINING:

   A. PRIOR TO STORE OPENING, ELECTRICAL SUB–CONTRACTOR SHALL SCHEDULE A TIME WITH WSI TO PROVIDE TRAINING FOR THE WSI STAFF. PROVIDE A COMPLETE OVERVIEW OF THE LIGHTING CONTROL SYSTEM INCLUDING THE FOLLOWING:

   - LOCATION OF THE CONTROL PANEL, CONTROL SWITCHES, AND PHONE LINE
   - ILLUSTRATE HOW TO MANUALLY CONTROL THE STORE LIGHTING AT THE CONTROL PANEL AND THE REMOTE SWITCHES.
   - INSTRUCT HOW TO CALL LCD AND REMOTELY OPERATE THE LIGHTING ZONES, MODIFY THE LIGHTING ON/OFF CONTROL TIMES, AND HAVE LCD CHECK FOR PROPER SYSTEM OPERATION.

   B. OBTAIN WSI SIGNATURE THAT SYSTEM TRAINING IS COMPLETE:

   WSI SIGNATURE/DATE _____

6. GENERAL NOTES:

   A. ELECTRICAL CONTRACTOR TO PROVIDE AND TERMINATE ALL LOW VOLTAGE CABLING AND SWITCH WIRING.

   B. ELECTRICAL CONTRACTOR TO CONNECT RELAY PANELS ( IF MULTIPLE PANELS REQUIRED) WITH CAT 5 DATA CABLE IN A DAISY CHAIN, STARTING WITH THE MASTER PANEL THEN TO NEXT NEAREST PANEL AND SO ON.

   C. REFER TO ALL WIRING AND INSTALLATION DETAILS AND DIAGRAM PROVIDED.

   D. BIDDERS CONTACT THE FOLLOWING FOR TECHNICAL ASSISTANCE INFORMATION: LIGHTING CONTROL AND DESIGN (LCD). PHONE: (800) 345–4448.

LCD TELEPHONE NUMBER FOR REMOTE PROGRAMMING:

(800) 345–4448

OWNER:
WILLIAMS-SONOMA, INC.
3250 Van Ness Avenue
San Francisco, CA 94109
T 415 616 8602
F 415 439 8164
www.williams-sonomainc.com

EEA
EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 200
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com

State of Registration MAINE
Firm Registration No. N/A
EEA Project No. 201665J8

DRAWN BY: BMW
CHECKED BY: SMR

Digitally Signed
STATE OF MAINE
Michael N. Hart
No. 10507
LICENSED PROFESSIONAL ENGINEER
Michael N Hart, PE (ME)
2017.03.08 15:25:28-06'00'

west elm
Dowtown Portland
164 Middle Street
Portland, ME 04101
PROJECT #006-160335.00

| ISSUED / REVISED | DATE |
|---|---|
| PRELIMINARY SET | 09/08/16 |
| LL COORDINATION SET | 11/08/16 |
| LL/PERMIT SET | 11/21/16 |

LIGHTING CONTROLS

E-004