QP2-0P0CSE-120 QP2-1P0CSE-120 QP2-1P2CSE-120 QP2-1P4CSE-120 120V, 20A DEDICATED 120V, 20A DEDICATED NORMAL/EMERGENCY 120V, 20A DEDICATED NORMAL/EMERGENCY NORMAL/EMERGENCY DEDICATED NORMAL/EMERGENCY INPUT FEED INPUT FEED ECOSYSTEM LOOP #1 ECOSYSTEM LOOP #1 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #2 ECOSYSTEM LOOP #2 LINK: A (CONFIGURABLE LINK) 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX (CONFIGURABLE LINK) (CONFIGURABLE LINK) ECOSYSTEM LOOP #3 LINK: B (CONFIGURABLE LINK) 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #4 64 BALLASTS/INTERFACES MAX TO NEXT PANEL TO NEXT PANEL TO NEXT PANEL E TO NEXT PANEL TO NETWORK (QS-EO OR QS-LO) QP2-0P0CSE-120 QP2-1P0CSE-120 QP2-1P4CSE-120 QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB CONTAINING (0) ECOSYSTEM LOOPS CONTAINING (0) ECOSYSTEM LOOPS CONTAINING (2) ECOSYSTEM LOOPS CONTAINING (4) ECOSYSTEM LOOPS (0) QUANTUM PROCESSORS (1) QUANTUM PROCESSORS (1) QUANTUM PROCESSORS (1) QUANTUM PROCESSORS (0) CONFIGURABLE LINKS, AND (2) CONFIGURABLE LINKS, AND (1) CONFIGURABLE LINK, AND (1) CONFIGURABLE LINK, AND (1) 5 PORT ETHERNET SWITCH 31.5"[800mm] (H) X 15.8"[401mm] (W) X 5.8"[147mm] (D) LOCATION TBD LOCATION TBD LOCATION TBD **LOCATION TBD** QP2-1P6CSE-120 QP2-2P0CSE-120 QP2-1P8CSE-120 QP2-2P2CSE-120 ECOSYSTEM LOOP #1 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #2 64 BALLASTS/INTERFACES MAX 120V, 20A DEDICATED 120V, 20A DEDICATED 120V, 20A ECOSYSTEM LOOP #3 120V, 20A DEDICATED NORMAL/EMERGENCY ECOSYSTEM LOOP #1 NORMAL/EMERGENCY DEDICATED NORMAL/EMERGENCY 64 BALLASTS/INTERFACES MAX NORMAL/EMERGENCY 64 BALLASTS/INTERFACES MAX INPUT FEED ECOSYSTEM LOOP #4 ECOSYSTEM LOOP #2 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #5 ECOSYSTEM LOOP #1 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #3 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #6 ECOSYSTEM LOOP #2 ECOSYSTEM LOOP #4 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX (CONFIGURABLE LINK) ECOSYSTEM LOOP #7 ECOSYSTEM LOOP #5 LINK: B (CONFIGURABLE LINK) 64 BALLASTS/INTERFACES MAX LINK: C (CONFIGURABLE LINK) 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #8 ECOSYSTEM LOOP #6 LINK: D (CONFIGURABLE LINK) 64 BALLASTS/INTERFACES MAX (CONFIGURABLE LINK) TO NEXT PANEL TO NEXT PANEL E TO NEXT PANEL E TO NEXT PANEL E TO NETWORK (QS-EO OR QS-LO) QP2-1P6CSE-120 QP2-1P8CSE-120 QP2-2P2CSE-120 QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB CONTAINING (6) ECOSYSTEM LOOPS CONTAINING (8) ECOSYSTEM LOOPS CONTAINING (0) ECOSYSTEM LOOPS CONTAINING (2) ECOSYSTEM LOOPS (1) QUANTUM PROCESSORS (1) QUANTUM PROCESSORS (2) QUANTÚM PROCESSORS (2) QUANTÚM PROCESSORS (1) CONFIGURABLE LINKS, AND (4) CONFIGURABLE LINKS, AND (3) CONFIGURABLE LINKS, AND (1) CONFIGURABLE LINK, AND (1) 5 PORT ETHERNET SWITCH 31.5"[800mm] (H) X 15.8"[401mm] (W) X 5.8"[147mm] (D) **LOCATION TBD LOCATION TBD** LOCATION TBD **LOCATION TBD** QP2-2P4CSE-120 QP2-2P6CSE-120 QP2-2P8CSE-120 QP3-1PL-100-240 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #2 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #3 NORMAL/EMERGENCY 120V, 20A DEDICATED 120V, 20A DEDICATED ECOSYSTEM LOOP #1 INPUT FEED NORMAL/EMERGENCY 64 BALLASTS/INTERFACES MAX NORMAL/EMERGENCY 64 BALLASTS/INTERFACES MAX INPUT FEED ECOSYSTEM LOOP #4 ECOSYSTEM LOOP #2 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #5 ECOSYSTEM LOOP #1 ECOSYSTEM LOOP #3 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX ECOSYSTEM LOOP #6 DEDICATED ECOSYSTEM LOOP #2 ECOSYSTEM LOOP #4 64 BALLASTS/INTERFACES MAX NORMAL/EMERGENCY 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX (CONFIGURABLE LINK) ECOSYSTEM LOOP #7 ECOSYSTEM LOOP #3 ECOSYSTEM LOOP #5 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX (CONFIGURABLE LINK) (CONFIGURABLE LINK) ECOSYSTEM LOOP #8 (CONFIGURABLE LINK) ECOSYSTEM LOOP #4 ECOSYSTEM LOOP #6 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX 64 BALLASTS/INTERFACES MAX (CONFIGURABLE LINK) (CONFIGURABLE LINK) (CONFIGURABLE LINK) TO NEXT PANEL TO NEXT PANEL TO NEXT PANEL TO NETWORK (QS-EO OR QS-LO) QP3-1PL-100-240 QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB QUANTUM LIGHT MANAGEMENT HUB CONTAINING (4) ECOSYSTEM LOOPS CONTAINING (6) ECOSYSTEM LOOPS CONTAINING (8) ECOSYSTEM LOOPS CONTAINING (1) QUANTUM PROCESSOR (2) QUANTÚM PROCESSORS (2) QUANTUM PROCESSORS (2) QUANTUM PROCESSORS WITH 2 CONFIGURABLE LINKS (3) CONFIGURABLE LINKS, AND (3) CONFIGURABLE LINKS, AND (3) CONFIGURABLE LINKS, AND ENCLOSURE DIMENSIONS (mm): (1) 5 PORT ETHERNET SWITCH (1) 5 PORT ETHERNET SWITCH (1) 5 PORT ETHERNET SWITCH 11.25"[286mm] (H) X 7.50"[191mm]) (W) X 3.16"[80mm] (D) 31.5"[800mm] (H) X 15.8"[401mm] (W) X 5.8"[147mm] (D) 31.5"[800mm] (H) X 15.8"[401mm] (W) X 5.8"[147mm] (D) 31.5"[800mm] (H) X 15.8"[401mm] (W) X 5.8"[147mm] (D) **LOCATION TBD LOCATION TBD LOCATION TBD LOCATION TBD** QS-A-CMP-SBO-0 SERVERS SERVER WITH APPLE IPAD CONTROL Green Glance PC and Display QS-A-CMP-S/R SERVERS

DEDICATED

QS-A-CMP-S/R DEDICATED SERVER. TO BE LOCATED IN

CUSTOMERS CORPORATE DATA CENTER.

INSTALLATION TO MEET SPECIFICATIONS AND

REQUIREMENTS IN QS-A-CMP-R-0 SPEC

LOCATION TBD

QS-A-CMP-L-0

QS-A-CMP-L-O

LAPTOP COMPUTER

■ DEDICATED ETHERNET

ENVIRONMENT

TO CORPORATE ▼

UNINTERRUPTIBLE

POWER SUPPLY

BY LUTRON

NETWORK

RECEPTACLE

BY OTHERS

ETHERNET ENVIRONMENT

CORPORATE WIRELESS NETWORK

(BY OTHERS)

INSTALLING CONTRACTOR TO COORDINATE ALL NETWORK CONNECTIONS

AND COMMUNICATION REQUIREMENTS WITH IT CONTRACTOR AND OWNER

(LUTRON Q-CONTROL+ APPLICATION AVAILABLE FOR CLIENT DOWNLOAD)

APPLE IPAD (BY OTHERS)

(AVAILABLE FOR CLIENT DOWNLOAD

REQUIRES MOBILE CONTROL AND PROGRAMMING

SOFTWARE LICENSE (QSW-MC-PS-A)

(1) LICENSE REQUIRED PER IPAD

NETWORK

W/ LUTRON Q-CONTROL + APPLICATION

FOR FREE AT ITUNES)

RECEPTACLE BY OTHERS

USER INTERFACE

CLIENT PC ON CORPORATE INTRANET RUNNING QUANTUM Q-ADMIN LIGHTING MANAGEMENT SOFTWARE

LOCATION TBD

POWER SUPPLY

BY LUTRON QS-A-CMP-S/R

QUANTUM LIGHTING MANAGEMENT SYSTEM DEDICATED SERVER. TO BE LOCATED IN

CUSTOMERS CORPORATE DATA CENTER.

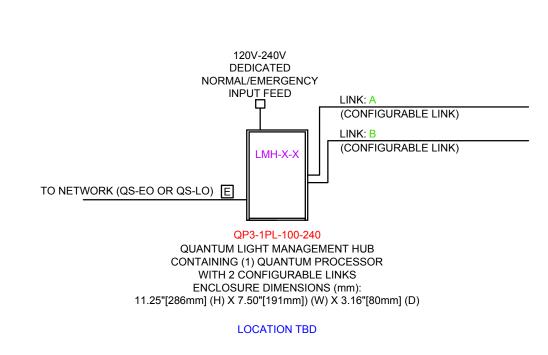
INSTALLATION TO MEET SPECIFICATIONS AND

REQUIREMENTS IN QS-A-CMP-R-0 SPEC

LOCATION TBD

DEDICATED

ETHERNET ENVIRONMENT



LOCATION TBD

APPLE IPAD (BY OTHERS) W/ LUTRON Q-CONTROL + APPLICATION (AVAILABLE FOR CLIENT DOWNLOAD FOR FREE AT ITUNES)

REQUIRES MOBILE CONTROL AND PROGRAMMING SOFTWARE LICENSE (QSW-MC-PS-A) (1) LICENSE REQUIRED PER IPAD

SERVERLESS IPAD CONTROL

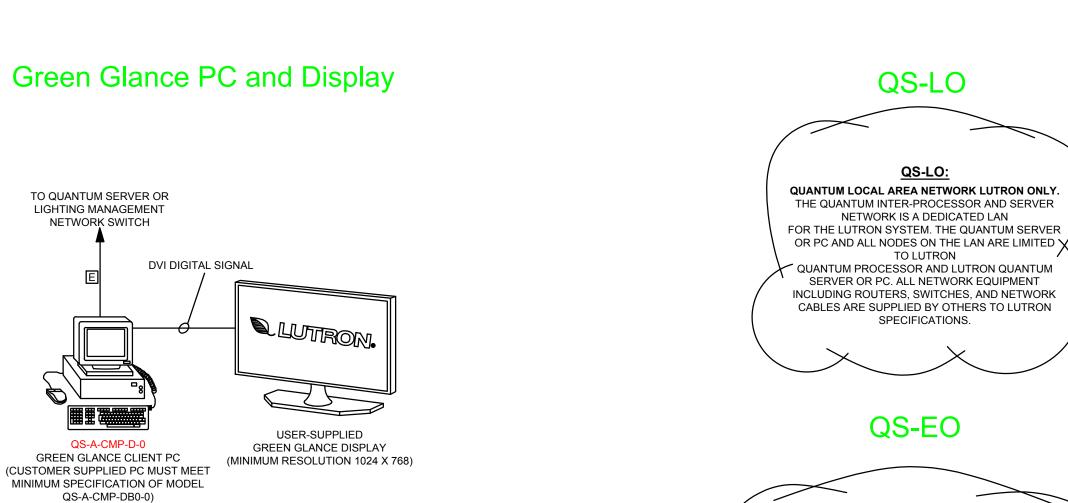
CORPORATE WIRELESS NETWORK

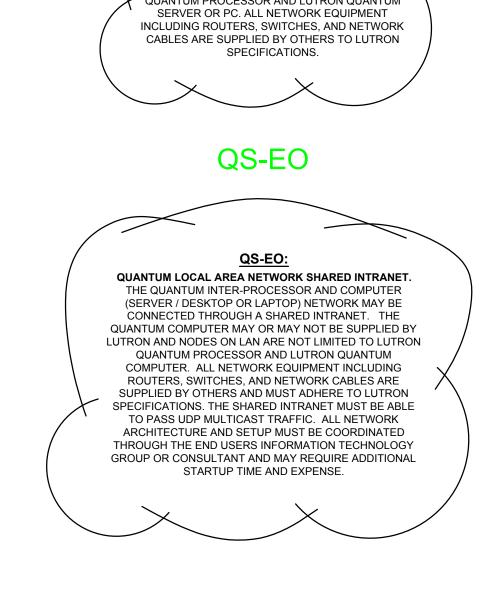
(BY OTHERS) INSTALLING CONTRACTOR TO COORDINATE ALL NETWORK CONNECTIONS AND COMMUNICATION REQUIREMENTS WITH IT CONTRACTOR AND OWNER (LUTRON Q-CONTROL+ APPLICATION AVAILABLE FOR CLIENT DOWNLOAD)

> SERVERLESS IPAD WITH QUANTUM VERSION 3.0 AND HIGHER WILL NO HAVE ACCESS TO QUANTUM VU

A QUANTUM VUE LICENSE PE PROCESSOR IS STILL REQUIRED.

SOFTWARE.





NOTE SENSOR PLACEMENT

IMPORTANT NOTE REGARDING SENSOR PLACEMENT

THE OCCUPANCY SENSORS & DAYLIGHT SENSORS ON THIS ECOSYSTEM LOOP LAYOUT WERE NOT PLACED BY LUTRON.

HIS ECOSYSTEM LOOP LAYOUT ONLY SHOWS THE CONNECTION

OF THE SENSORS TO THE APPROPRIATE ECOSYSTEM

COMPONENT. THE ACTUAL LOCATIONS OF THE SENSORS

SHOULD BE DETERMINED BY FOLLOWING THE LUTRON SPECIFICATION SHEETS AND THE INSTALLATION INSTRUCTIONS.

QS Link Controls

OS LUTRON PART: LOS-CDT-XXXX-WH: DUAL

OSR LUTRON PART: LOS-CDT-2000R-WH: DUAL

TECHNOLOGY CEILING MOUNT SENSOR. PROVIDES POWER FROM A POWER PACK AND WIRE SIGNAL TO

TECHNOLOGY CEILING MOUNT SENSOR. PROVIDES POWER FROM A POWER PACK AND WIRE SIGNAL TO

PP LUTRON PART: PP-120H OR PP-277H: POWER PACK PROVIDES POWER TO LUTRON OCCUPANCY

IO LUTRON PART: QSE-IO: PROVIDES 5 CONTACT INPUTS TO RECEIVE SIGNALS FROM OCCUPANCY

SENSORS, DAYLIGHT SENSORS, ETC. IN THE

LUTRON PART: QSWS2-2B-WH: QS WALL CONTROL WITH 2-BUTTONS FOR ON / OFF. WALLSTATION RECALLS LIGHTING PRESETS FOR ANY GROUP OF

LUTRON PART: QSWS2-5BRL-WH: QS WALL CONTROL WITH 5-BUTTONS, RAISE AND LOWER FOR CONTROL OF 4 SCENES PLUS OFF. WALLSTATION RECALLS LIGHTING PRESETS FOR ANY GROUP OF

7B LUTRON PART: QSWS2-7B-WH: QS WALL CONTROL

FOR ANY GROUP OF LIGHTS IN THE SYSTEM.

RS232 LUTRON PART: QSE-CI-NWK-E: QS INTERFACE TO

COMMUNICATE VIA TCP-IP OR RS232 WITH AV

WITH 7-BUTTONS, FOR CONTROL OF 6 SCENES PLUS

NOTE-EMERGENCY FUNCTION

WHEN NORMAL POWER LOSS IS DETECTED BY THE LUT-ELI-3PH, A

SIGNAL WILL BE SENT TO THE QUANTUM BUS SUPPLY LOCATED IN

THE LIGHT MANAGEMENT HUB. ALL ECOSYSTEM BALLASTS THAT

HAVE EMERGENCY POWER WILL GO TO THEIR EMERGENCY STATE.

NOTE-QUANTUM NETWORK

WHEN A LIGHTING MANAGEMENT NETWORK (LMN) IS REQUIRED TO ENABLE COMMUNICATIONS BETWEEN INDIVIDUAL LIGHT MANAGEMENT HUBS (LMH) AND BETWEEN LMH AND THE SYSTEM SERVER/DESKTOP/LAPTOP (Q-MANAGER). THE LMN REQUIRES A DEDICATED LAN OR VLAN. IT IS THE RESPONSIBILITY OF THE NETWORK PROVIDER TO ENSURE THE RELIABILITY AND SECURITY OF THE LMN.

CAT5E OR BETTER ETHERNET CABLE TO BE RUN FOR DEDICATED LMN TERMINATED WITH RJ45 CONNECTORS (PROVIDED BY OTHERS). THE NUMBER OF ETHERNET HOPS/SEGMENTS BETWEEN THE SERVER/DESKTOP/LAPTOP (Q-MANAGER) AND ANY LMN NODE SHALL NOT EXCEED 6. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT.

IF LONGER RUNS ARE REQUIRED, MULTI-MODE FIBER OPTIC CABLE CAN BE

USED INSTEAD WITH APPROPRIATE FIBER OPTIC CONNECTORS (PROVIDED B OTHERS). CONSULT WITH NETWORK PROVIDER FOR STANDARD ETHERNET AND FIBER OPTIC WIRING RULES FOR DISTANCE AND SEPARATION AS WELL AS FOR PLACEMENT OF SWITCHES, ROUTERS, HUBS, ETC.

FOR MORE INFORMATION REGARDING NETWORK EQUIPMENT REQUIREMENTS AND NETWORK CONFIGURATION, PLEASE REFER TO THE QUANTUM LIGHTING MANAGEMENT NETWORK SPECIFICATION SHEET OR CONTACT LUTRON.

LUTRON WILL TEST BACNET CONNETION TO ENSURE THAT

QUANTUM IS ABLE TO RECEIVE BACNET COMMANDS AND

RESPOND APPROPRIATELY USING A BACNET EMULATION

SERVICES FOR BACNET COMMUNICATION ARE REQUIRED.

INTEGRATOR OR BY THE SYSTEM PROGRAMMER FOR THE

SYSTEM. LUTRON DOES NOT PROVIDE THESE SERVICES.

PLEASE REFER TO THE BACNET SOFTWARE LICENSE FOR

THESE SERVICES ARE NORMALLY PROVIDED BY A THIRD-PARTY

BACNET-ENABLED SYSTEM, SUCH AS A BUILDING MANAGEMENT

QUANTUM SPECIFICATION SUBMITTAL SHEET FOR ADDITIONAL

QUANTUM OUTLET NOTE

*REQUIRED FOR SYSTEM START-UP: AN OUTLET MUST BE INSTALLED

WITHIN 6FT (1.8m) OF THE PANEL. OUTLET SHOULD NOT BE ON THE

SAME CIRCUIT AS THE PANEL

SOFTWARE TOOL. INTEGRATION AND PROGRAMMING

NOTE-QUANTUM BACNET

OFF. WALLSTATION RECALLS LIGHTING PRESETS

SENSORS IN THE SWITCHING AREAS. LOCATED IN

QS LINK CONTROLS

A QS-IO UNIT.

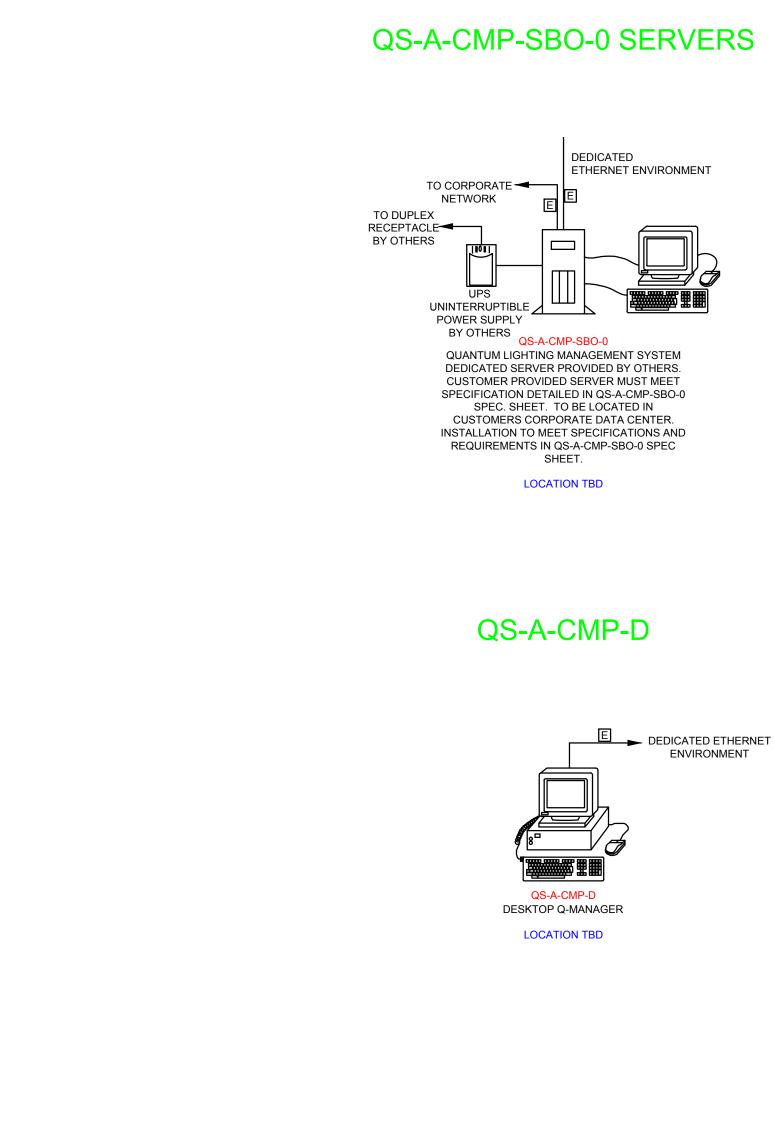
ELECTRICAL CLOSETS.

SWITCHING AREAS.

LIGHTS IN THE SYSTEM.

LIGHTS IN THE SYSTEM.

EMERGENCY FUNCTION



Drawing Revision: OCTOBER 2016 Drawing Date: 7200 Suter Road | Coopersburg, PA 18036 | USA (610) 282-3800 | fax: (610) 282-1146

QUANTUM

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