GENERAL NOTES:
1. SEE DRAWING DE-301 FOR EQUIPMENT LOCATION.
2. SEE ALL DE-600 DRAWINGS FOR LOCKING TERMINATIONS.
3. SEE ALL DE-600 DRAWINGS FOR LIGHTING/POWER TERMINATIONS.

SCHNEIDER ELECTRIC LPB CABINET
DATA TERMINAL STRIP
(TYPICAL OF EIGHT)

L	L	L	L	N	N	B+	A-	B+	A-			

FROM RED LION DATA PLUS RS485 CONNECTION (BELDEN 5300FE OR WP 293 OR EQ.)
Pin 1 WHT/BLU TX B+
Pin 2 BLU TX A-
TO NEXT RBL LIGHTING CABINET'S TERMINAL STRIP (BELDEN 5300FE OR WP 293 OR EQ.)
BLU TX A-
WHT/BLU TX B+

DETAIL : DE-402.C

TYPE	NONFLEXDUM WIRE	USE
A	2-#18 THHN (DRY) OR THWN (WET) STRANDED (BLU, WHT)	24VDC POWER
B	6-#14 THHN (DRY) OR THWN (WET) STRANDED (MATCH PISTAL)	CONTROLLED SLIDER OR OVERHEAD DOOR*
C	4-#14 THHN (DRY) OR THWN (WET) STRANDED (WHT, BLU, BRN,GRN)	CONTROLLED SWING DOOR*
D	2-#18 THHN (DRY) OR THWN (WET) STRANDED (BLK, RED)	DOOR POSITION SWITCH (DPS)
E	BELDEN 5300FE OR WP 293 OR EQ.	1-18 AWG STRANDED, TWISTED, SHIELDED PAIR (RED, BLK, SHLD)
F	BELDEN 8498	4-18 AWG STRANDED, TWISTED (BLK, WHT, RED, GRN)
G	BELDEN 7923A OE WP 4245 (WHT/BLU, WHT/ORG, WHT/GRN, WHT/BRN)	CAT 5e - 4-24 AWG SOLID, TWISTED PAIR
H	BELDEN 8205 OR WP 222 (DRY) WP AC2224 (WET)	1-20 AWG STRANDED, TWISTED PAIR (RED, BLK) 1-18 AWG STRANDED, TWISTED PAIR (RED, BLK)
J	BELDEN 9462 OR WP 222 (DRY)	1-20 AWG STRANDED, TWISTED TRIAD (DRY) (RED, BLK, WHT) (TRIAD = THREE CONDUCTORS)

WIRE LEGEND

* DOOR CONTROL WIRING DOES NOT INCLUDE DPS

DETAIL : DE-402.A

CAT 5 CABLE WIRING

Pin 8	BRN	4	UNUSED
Pin 7	WHT/BRN	4	UNUSED
Pin 6	GRN	3	RXD&TX-
Pin 5	WHT/BLU	1	UNUSED
Pin 4	BLU	1	UNUSED
Pin 3	WHT/GRN	3	RXD&TX+
Pin 2	ORG	2	TXD&TX-
Pin 1	WHT/ORG	2	TXD&TX+
PIN	COLOR	PAIR	DESCRIPTION

USE PANDUIT PART #PDT110M PUNCHDOWN TOOL OR EQUIVALENT FOR CABLE TERMINATION.

DETAIL : DE402.B

RS485

RED LION RS485 CABLE WIRING

(BELDEN 5300FE OR WP 293 OR EQ.)

Pin 8	N/A		UNUSED
Pin 7	N/A		UNUSED
Pin 6	N/A		UNUSED
Pin 5	N/A		UNUSED
Pin 4	N/A		UNUSED
Pin 3	N/A		UNUSED
Pin 2	BLK	TX A-	
Pin 1	RED	TX B+	
PIN	COLOR	DESCRIPTION	

USE PANDUIT PART #PDT110M PUNCHDOWN TOOL OR EQUIVALENT FOR CABLE TERMINATION.

LOCKING RELAY DETAIL
PHOENIX CONTACT ORDER #2963620
(2967722 BASE AND 2951312 RELAY)

24	N.C.		
23	N.O.		
22	RELAY COM		
21	PLC WDRD	TO LOCK	
14	PLC BIT		
A2	COIL -		
A1	COIL +		

CONTROL POST 109

CONTROL POST
TS01
TOUCH SCREEN
ELO 2200L
MOUNTED IN TURRET

SPEAKERS

VGA, AUDIO & USB (TOUCH) CABLES

BLACK BOX ACU5050A-R2 (REMOTE)

BLACK BOX ACU5050A-R2 (LOCAL)

(1) G

CONTROL POST
TS02
TOUCH SCREEN
ELO 2200L
MOUNTED IN TURRET

SPEAKERS

VGA, AUDIO & USB (TOUCH) CABLES

BLACK BOX ACU5050A-R2 (REMOTE)

BLACK BOX ACU5050A-R2 (LOCAL)

(1) G

COMMUNICATION ROOM 303

OMRON CS1W-BC083-SG BACKPLANE

CS1W-CN223-SG CABLE

OMRON CS1W-BI083-SG BACKPLANE

RED LION DATA STATION PLUS MODEL DSP

RED LION RS485 WIRING BUSS

A−
B+

REF. DETAIL DE-402.C

REF. DETAIL DE-402.B

REF. DETAIL DE-402.A

PHOENIX CONTACT 2832632

RELAY BLK #39A

TS/PB DUESS OUTPUT

ER MODE OUTPUT

(1) G

(1) F

STARTECH EXT. AUDIO CARD

TS02 DELL POWEREDGE R210 RACK MOUNT COMPUTER

TS01 DELL POWEREDGE R210 RACK MOUNT COMPUTER

FRONT

REAR

HEWLETT PACKARD NETWORK HUB

STARTECH RACKCONS150T

CER BUILDING 1

(2) H

SENSTAR LTU EQUIPMENT (BY OTHERS)

SENSTAR

BY OTHERS

MAIN COMMUNICATIONS AND CONTROL POST COMPUTER (BY OTHERS)

MCCP

ATTIC SPACE C301

ATTIC SPACE D301

ATTIC SPACE A301

ATTIC SPACE B301

HOFFMAN A20160L8P CABINET JCAB-C3
LOCATION: ATTIC SPACE C301
16"(w)x20"(h)x6.62"(d)

HOFFMAN A20160L8P CABINET JCAB-D3
LOCATION: ATTIC SPACE D301
16"(w)x20"(h)x6.62"(d)

HOFFMAN A20160L8P CABINET JCAB-B3
LOCATION: ATTIC SPACE B301
16"(w)x20"(h)x6.62"(d)

OMRON CRT1-ID16 2076 Address
OMRON CRT1-ID16 2077 Address
OMRON CRT1-ID16 2078 Address
OMRON CRT1-ID16 2079 Address
OMRON CRT1-ID16 2080 Address
OMRON CRT1-ID16 2081 Address
OMRON CRT1-ID16 2082 Address
OMRON CRT1-ID16 2083 Address
OMRON CRT1-ID16 2084 Address
OMRON CRT1-ID16 2085 Address
OMRON CRT1-ID16 2086 Address
OMRON CRT1-ID16 2087 Address
OMRON CRT1-ID16 2036 Address
OMRON CRT1-ID16 2037 Address
OMRON CRT1-ID16 2038 Address
OMRON CRT1-ID16 2039 Address
OMRON CRT1-ID16 2040 Address
OMRON CRT1-ID16 2041 Address
OMRON CRT1-ID16 2042 Address
OMRON CRT1-ID16 2043 Address
OMRON CRT1-ID16 2044 Address
OMRON CRT1-ID16 2045 Address
OMRON CRT1-ID16 2046 Address
OMRON CRT1-ID16 2047 Address

SONNEDER ELECTRIC LPB CABINET 32 RELAY PANEL CABINET JCAB-A2
LOCATION: ATTIC SPACE C301
20"(w)x33.5"(h)x4"(d)

SONNEDER ELECTRIC LPB CABINET 48 RELAY PANEL CABINET JCAB-A1
LOCATION: ATTIC SPACE C301
20"(w)x49.2"(h)x4"(d)

SONNEDER ELECTRIC LPB CABINET 32 RELAY PANEL CABINET JCAB-B2
LOCATION: ATTIC SPACE D301
20"(w)x33.5"(h)x4"(d)

SONNEDER ELECTRIC LPB CABINET 48 RELAY PANEL CABINET JCAB-B1
LOCATION: ATTIC SPACE B301
20"(w)x49.2"(h)x4"(d)

(1)E Wired (1)E,(1)G Future

DEVICE INSTANCE: 1
DEVICE ID (MAC): 2

DEVICE INSTANCE: 2
DEVICE ID (MAC): 3

DEVICE INSTANCE: 3
DEVICE ID (MAC): 4

DEVICE INSTANCE: 4
DEVICE ID (MAC): 5

DEVICE INSTANCE: 5/6
DEVICE ID (MAC): 6

DEVICE INSTANCE: 7/8
DEVICE ID (MAC): 7

DEVICE INSTANCE: 9/10
DEVICE ID (MAC): 8

DEVICE INSTANCE: 11/12
DEVICE ID (MAC): 9

NO.	DATE	REVISION DESCRIPTION	CHKD BY
1	5/09/12	UPDATED PER RFI #46 ANSWERS DATED MAY 03, 2012	
2	4/08/13	UPDATED PER CCN #70 DATED JAN. 28, 2013	

Security Electronics Controls
SYSTEM NETWORK & COMM. DIAGRAM
SPRINGHILL INSTITUTION – BUILDING 52
SPRINGHILL, NOVA SCOTIA

DRAWN BY:	DATE:
JDB	2/27/12
CHECKED BY:	DATE:
CH	2/27/12

PROJECT NUMBER:
625 – 462222401

SHEET TITLE:
Security Electronics Controls
SYSTEM NETWORK & COMM. DIAGRAM

SHEET NUMBER:
DE-402
DE-402.dwg

SimplexGrinnell BE SAFE.
A Tyco International Company
9620 10TH AVENUE SOUTH, SUITE 100
SEATTLE, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1400
FAX: 206-291-1500

© 2010 SIMPLEXGRINNELL LP
ALL RIGHTS RESERVED

24" x 36"

LAST PRINTED: 4/12/2013 2:24:04 PM LAST SAVED BY: JBARNETT

FILE PATH: C:\JOBS\springhill\building 52\Dwgs\DE-402.dwg