

Bell School - Access Control Package

Project Name: **Security Upgrades**

Project Number:

Prepared for:

Rock Valley College
3301 N. Mulford Rd.
Rockford, IL 61114

Architect: N/A
Contractor: N/A
Engineer: N/A

Table of Contents

Bell School - Access Control Package	1
Specifications	3
Specifications.pdf	4
Drawings set.....	5
Drawing set.pdf	6

Specifications

Access Control

1. Field devices:

- A. Existing Card Readers will be replaced with the new Schlage readers MT15 for regular single gang and MT11 for mullion.
- B. Replace the existing access control EOL resistor at the field devices from the 10K Ohm resistor to the GRI 6644 resistor pack. For wiring details, see drawing A_400.

2. Head-End:

- A. Utilized existing access control enclosures, demoed existing Continuum controllers, and replaced them with the new Genetec Mercury boards (see panel layout drawings A_700s).
- B. Trim existing head-end cables.
- C. Mount and trim the new Wireless lock Genetec LP2500 controllers.
- D. Set up and configure new wireless gateways.
- E. Check and Commission new access control controllers and wireless gateways.

Owner

The Owner will supply the following items for installation and connection by this Contractor:

- 1. IP Network connection from a network switch for the new Wireless Locks system. Document port name and number.

Drawings set

ROCK VALLEY COLLEGE BELL SCHOOL

3350 BELL SHOOD RD.
ROCKFORD, IL 61114

ACCESS CONTROL
PROJECT NUMBER: GA24G3142
ISSUED FOR REVIEW:

TABLE OF CONTENTS:

<u>SHEET NO.</u>	<u>REV.</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>SHEET DESCRIPTION</u>
RVC_BELL_A_001	1	ISSUED FOR REVIEW	07/26/24	TITLE SHEET & TABLE OF CONTENTS
RVC_BELL_A_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_BELL_A_LL	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - ACCESS CONTROL - LOWER LEVEL
RVC_BELL_W_LL	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - LOWER LEVEL
RVC_BELL_A_400	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL & WIRELESS LOCK SYSTEM TERMINATION DETAILS - 1
RVC_BELL_W_400	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL & WIRELESS LOCK SYSTEM TERMINATION DETAILS - 2
RVC_BELL_G_700_DEMO	1	ISSUED FOR REVIEW	07/26/24	MULTIPLE SYSTEMS PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - DEMO
RVC_BELL_G_700	1	ISSUED FOR REVIEW	07/26/24	MULTIPLE SYSTEM PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - NEW WORK



1111 PASQUINELLI RD / WESTMONT, IL 60559
PHONE: 708.271.4700

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:

RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:

ACCESS CONTROL TITLE SHEET &
TABLE OF CONTENTS

PROJECT NUMBER:

GA24G3142

SHEET NUMBER:

RVC_BELL_A_001

ACCESS CONTROL SYSTEM DEVICE LEGEND:

- CR_NDE NDE SCHLAGE WIRELESS LOCK W/ BUILT-IN REQUEST TO EXIT, DOOR STATUS LOCK STATUS
- GWE GATEWAY
- SEC SECURITY SYSTEM CABINET
- DE EXISTING DOOR CONTACT
- DD D.P.D.T. DOOR CONTACT (ONE POLE TO BE WIRED TO ACCESS CONTROL AND THE OTHER TO THE INTRUSION SYSTEM)
- REX REQUEST-TO-EXIT MOTION SENSOR
- CR_P NEW SCHLAGE MTB SERIES CARD READER, WALL-MOUNT
- EL ELECTRIC MORTISE LOCKING HARDWARE W/ BUILT-IN REX
- CB ELECTRONIC CRASH BAR LOCKING HARDWARE

INTRUSION SYSTEM DEVICE LEGEND:

- KP INTRUSION KEY PAD
- MS_C CEILING-MOUNTED MOTION SENSOR
- MS_W WALL-MOUNTED MOTION SENSOR
- DE EXISTING DOOR CONTACT
- DD D.P.D.T. DOOR CONTACT (ONE POLE TO BE WIRED TO ACCESS CONTROL AND THE OTHER TO THE INTRUSION SYSTEM)
- DAED AED CABINET DOOR CONTACT
- GB GLASS BREAK SENSOR
- PB PANIC BUTTON/DURESS BUTTON
- RX_4 INOVONICS EN4240R RECEIVER W/ FOUR RELAYS

POWER / NETWORK / MISC DEVICE LEGEND:

- BRG BURGLAR PANEL

WIRING SPECIFICATIONS & CONDUIT SIZING:

#	WIRE TYPE
A	18AWG / 2 CONDUCTOR, PLENUM
B	18AWG / 4 CONDUCTOR, PLENUM
C	18AWG / 5 CONDUCTOR, SHIELDED, PLENUM
D	23AWG / 4 PAIR CAT-6, PLENUM
E	22AWG / 1 PAIR AND AN 22AWG / 1 CONDUCTOR, SHIELDED, LOW-CAP, PLENUM (RS-485)
F	"NOT USED"
G	"NOT USED"
H	"NOT USED"
J	"NOT USED"
K	"NOT USED"
L	"NOT USED"
M	"NOT USED"
N	"NOT USED"
P	"NOT USED"
Q	"NOT USED"
R	"NOT USED"

PERMISSIBLE CONDUIT FILL BASED ON OCCUPIED AREA (NEC RECOMMENDED 40% FILL FACTOR)

CONDUIT SIZE (IN)	PERMISSIBLE FILL (SQ. IN.)
3/4"	0.21 SQUARE IN.
1"	0.35 SQUARE IN.
1 1/4"	0.60 SQUARE IN.
1 1/2"	0.81 SQUARE IN.
2"	1.34 SQUARE IN.
2 1/2"	1.92 SQUARE IN.
3"	2.96 SQUARE IN.
3 1/2"	3.95 SQUARE IN.
4"	5.09 SQUARE IN.

NOTE 1: TABLE DEVELOPED FOR STEEL OR ALUMINUM ALLOY CONDUIT ONLY.

NOTE 2: NEC PRESCRIBED 40% FILL FACTOR IS FOR (3) OR MORE CABLES. A SINGLE CABLE CAN OCCUPY 53% OR TWO CABLES ARE LIMITED TO 31% CONDUIT FILL.

GENERAL NOTES

- 1) ALL CONDUIT IS TO BE 3/4" WITH PULL STRING UNLESS OTHERWISE SPECIFIED ON DRAWING. ARROW DENOTES HOME RUN BACK TO SECURITY EQUIPMENT LOCATION AS NOTED.
- 2) ALL DEVICES ARE HOME RUN WIRED UNLESS OTHERWISE SPECIFIED.
- 3) VERIFY ALL SITE CONDITIONS AND REPORT ALL PROBLEMS TO SCHNEIDER ELECTRIC.
- 4) FOLLOW CONDUIT FILL REQUIREMENTS AS DOCUMENTED BELOW ON THE WIRING LEGEND AND PRESCRIBED CONDUIT FILL TABLES. CONDUIT SPECIFIED BY ELECTRICAL CONTRACTOR CANNOT EXCEED A 40% FILL UNDER ANY CIRCUMSTANCES.
- 5) ALL CONDUIT FOR SECURITY / CCTV SYSTEM SHALL ONLY CONTAIN SECURITY & CCTV SYSTEM CABLES. WIRE FROM OTHER TRADES IS NOT PERMITTED IN THE SECURITY / CCTV CONDUIT SYSTEM UNDER ANY CIRCUMSTANCES.
- 6) BURIAL RATED CABLE TO BE USED FOR ANY UNDERGROUND RUNS.
- 7) ALL DRAWINGS INDICATE CURRENT PROJECT SCOPE WITH DARKENED PRINT. GRAYED DEVICES & WIRING INDICATE WORK THAT WAS PREVIOUSLY COMPLETED BUT IS CURRENTLY PART OF THE FULL SYSTEM.
- 8) PLENUM RATED CABLE TO BE USED IN ALL PLENUM CEILING AREAS. CONDITIONS TO BE FIELD VERIFIED AND REPORTED BACK TO SCHNEIDER ELECTRIC IF DIFFERENT THAN SHOWN ON DRAWINGS.

SYMBOLS

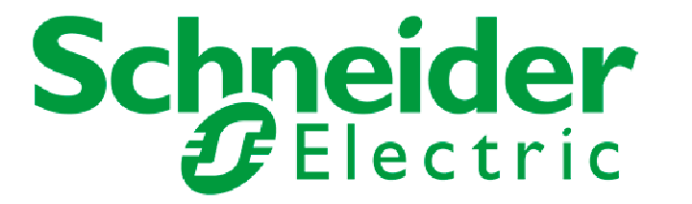
- XX = FLOOR NUMBER OR "ST" FOR SITE
- A = BUILDING AREA OR QUADRANT
- B = SYSTEM TYPE (SEE SYSTEM TYPES/PANEL TYPES LEGEND)
- ?? = SEQUENTIAL NUMBER IDENTIFIER
- ZZZZ = PANEL/HEAD-END LOCATION NUMBER
- YY = CONDUIT DETAIL NUMBER
- B_??? = DRAWING NUMBER
- REVISION NUMBER IDENTIFIER
- KEY NOTE IDENTIFIER

SYSTEM TYPES

- A = ACCESS CONTROL FIELD LOCATION
- C = CAMERA SYSTEM FIELD LOCATION
- W = WIRELESS LOCKS
- B = BURG / INTRUSION DETECTION

PANEL TYPES

- ACC = ACCESS CONTROL PANEL
- CAM = CAMERA SYSTEM HEAD-END/PANEL
- WRLS = LOCK WIRELESS SYSTEM HEAD-END
- BURG = BURG / INTRUSION SYSTEM HEAD-END



1111 PASQUINELLI RD./ WESTMONT, IL 60559
PHONE: 708.271.4700

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
SYMBOL LEGEND &
GENERAL NOTES

PROJECT NUMBER:
GA24G3142

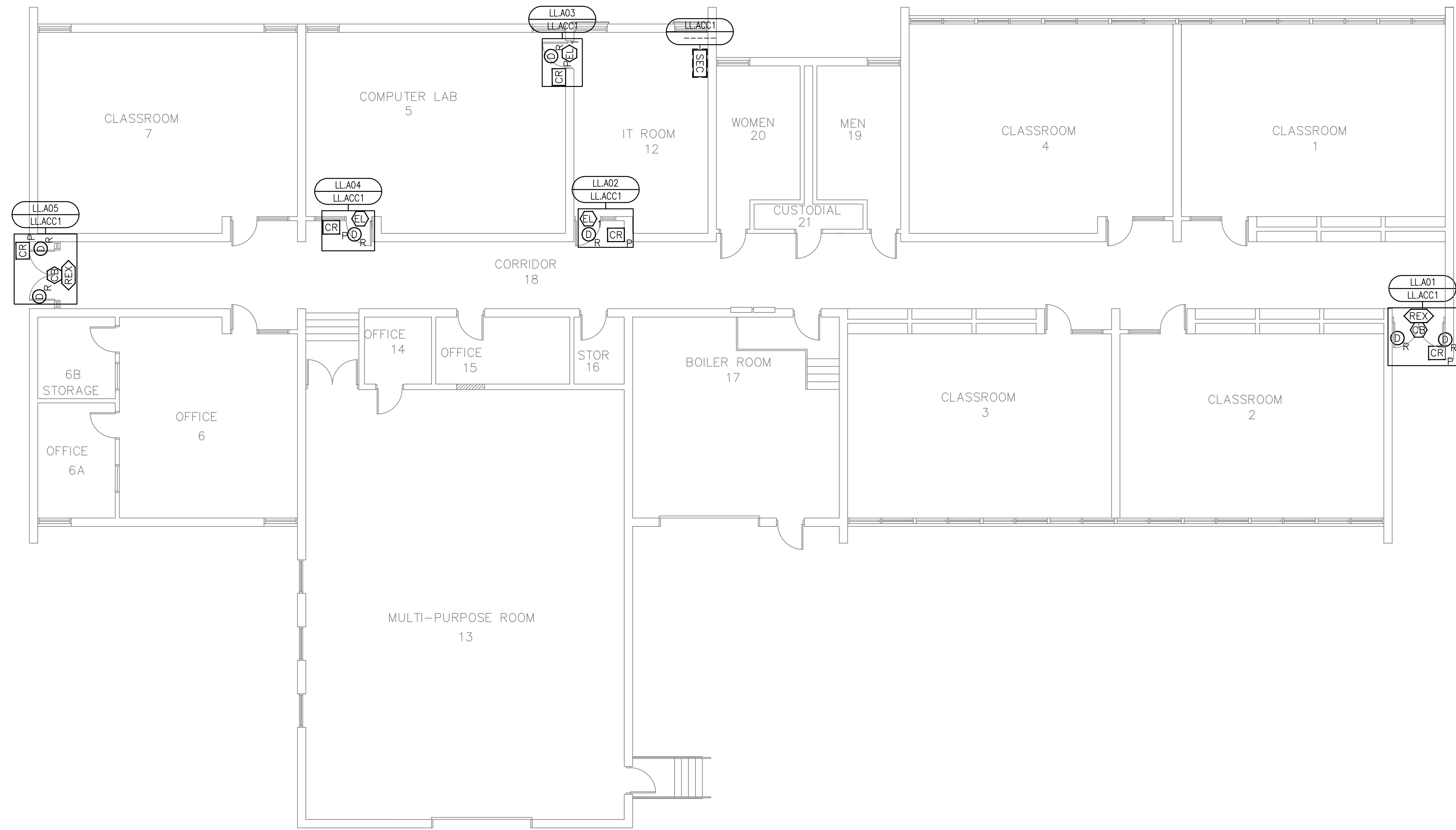
SHEET NUMBER:
RVC_BELL_G_100

GENERAL NOTES:

REMOVE EXISTING ANDOVER ACCESS CONTROL CONTROLLERS AND REPLACE THEM WITH GENETEC MERCURY CONTROLLERS.

REPLACE THE EXISTING CARD READERS WITH THE NEW SCHLAGE MTB SERIES AND UTILIZE THE EXISTING CABLING. BEFORE READER REPLACEMENT, FIELD VERIFY FOR PROPER MODEL REPLACEMENT, STANDARD WALL MOUNT, MULLION, OR READER W/ KEYPAD.

ACCESS CONTROL CONTRACTOR TO REPLACE EXISTING EOL RESISTOR AT THE FIELD DEVICE WITH THE GRI 6644 RESISTOR PACK. SEE DRAWING A_400 FOR WIRING DETAIL.



SITE NAME & ADDRESS
ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 16, 2024
SCALE: 1/8" = 1'-0"
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

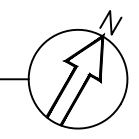
PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
DEVICE LOCATIONS -
ACCESS CONTROL
LOWER LEVEL

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_A_LL

LOWER LEVEL - ACCESS CONTROL
DEVICE LOCATION PLAN
SCALE: AS NOTED



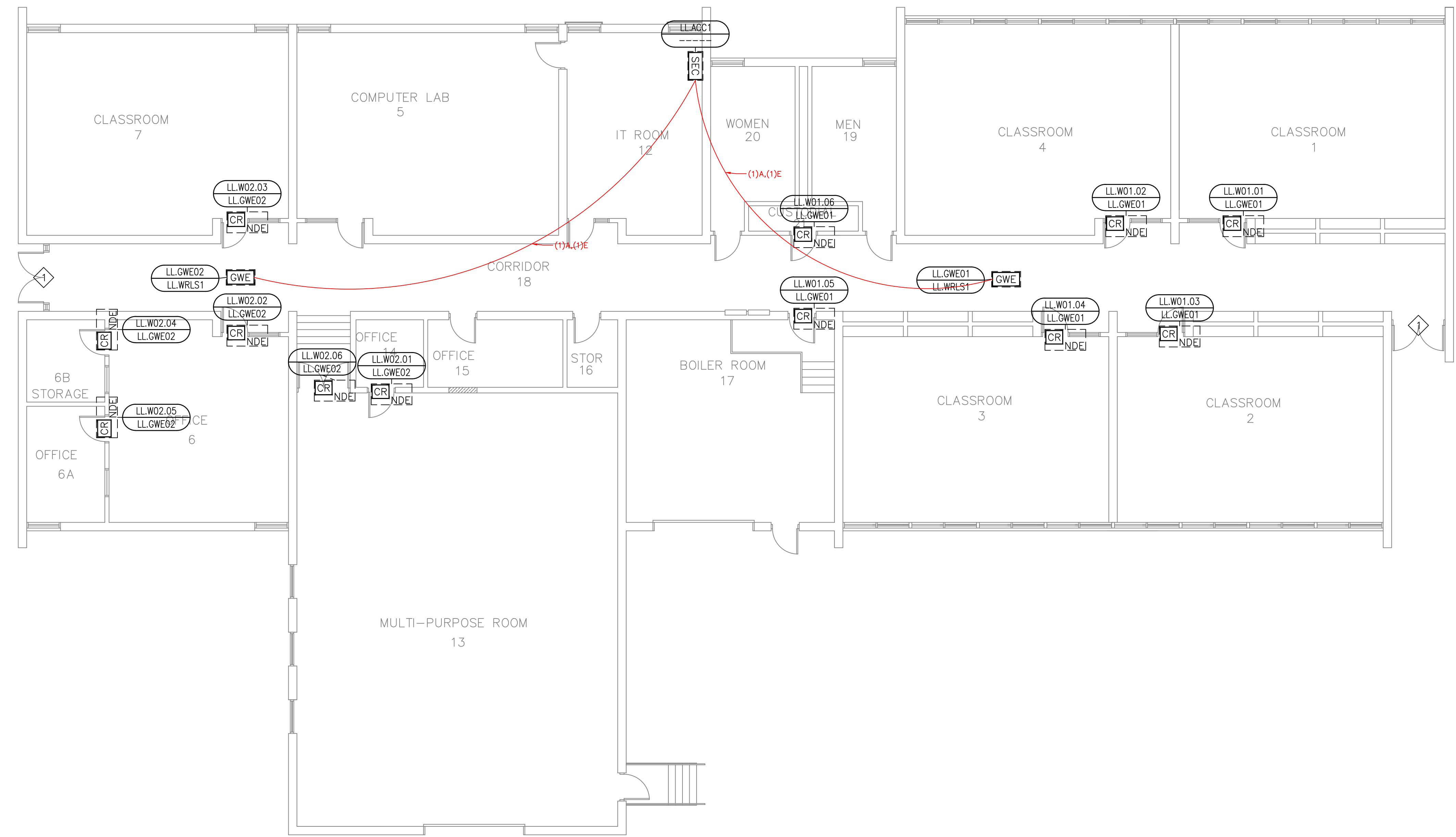
KEY NOTES:

⬠ ELECTRICAL CONTRACTOR TO PROVIDE (2) 18AWG/2C CABLES TO MAIN ENTRANCE AND REAR DOUBLE DOOR FOR NEW DOOR CONTACTS.

SCOPE OF WORK:

ELECTRICAL CONTRACTOR:
RUN COMMUNICATION AND POWER CABLE FROM HEAD-END TO EACH WIRELESS GATEWAY. TRIM, TERMINATE AND SET THE GATEWAYS. SEE LEGEND DRAWING G_100, WIRING DETAIL E_400 AND ELECTRICAL CONTRACTOR SPECIFICATIONS.

ACCESS CONTROL CONTRACTOR:
TRIM AND TERMINATE COMMUNICATION AND POWER CABLES AT THE HEAD-END PANEL, PROGRAM AND CONFIGURE THE GATEWAYS.



SITE NAME & ADDRESS
ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

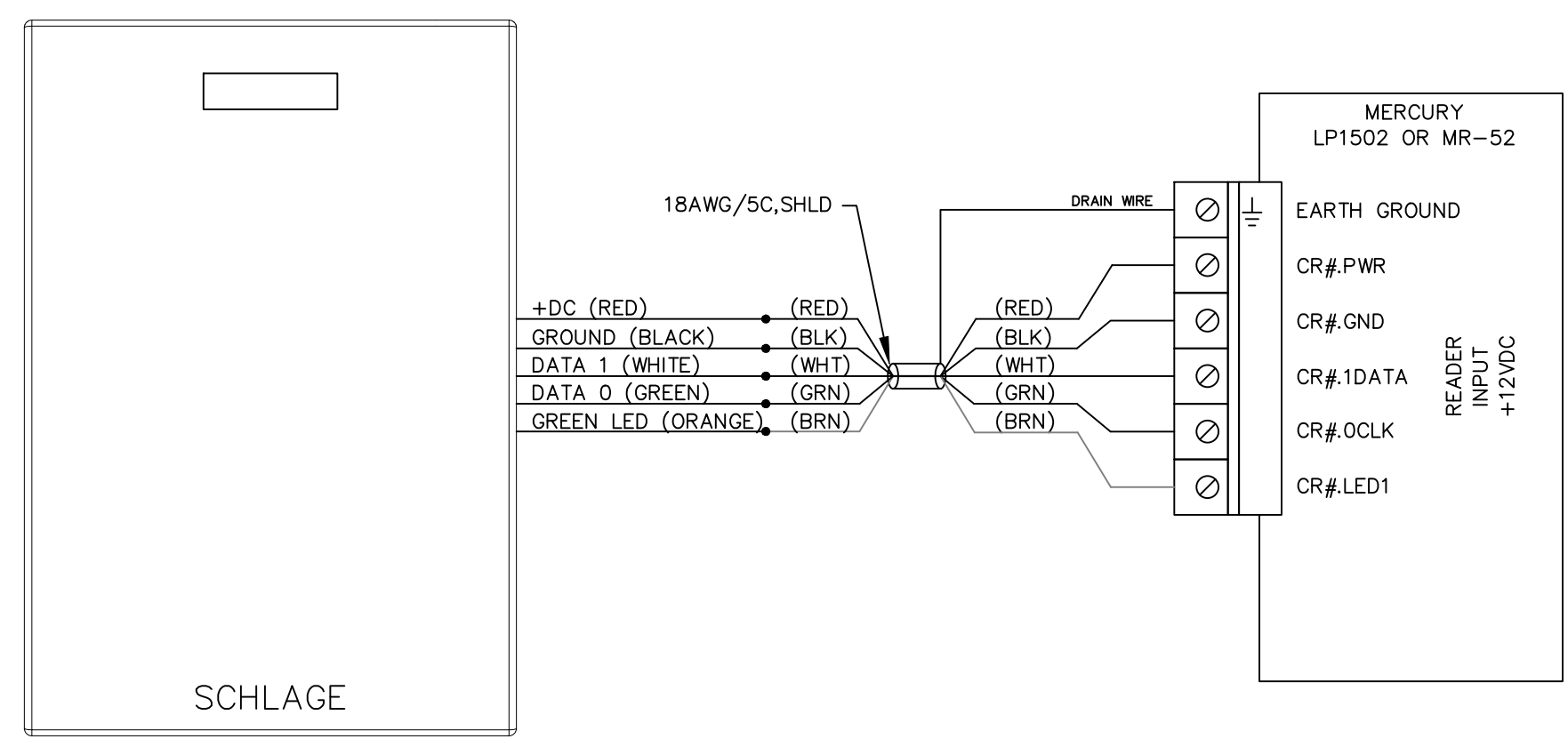
DATE: JULY 16, 2024
SCALE: 1/8" = 1'-0"
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

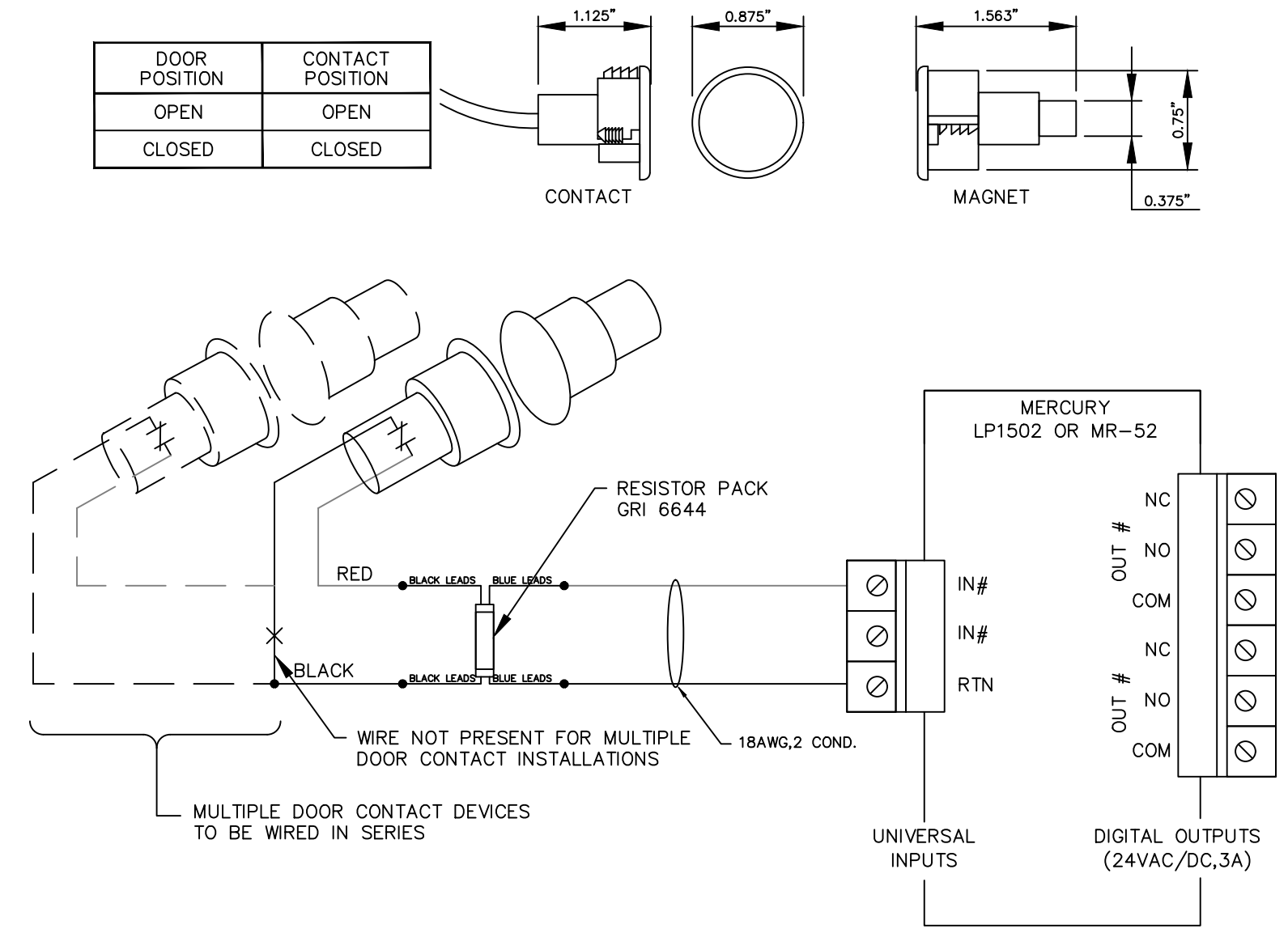
SHEET TITLE:
DEVICE LOCATIONS -
WIRELESS LOCKS
LOWER LEVEL

PROJECT NUMBER:
GA24G3142

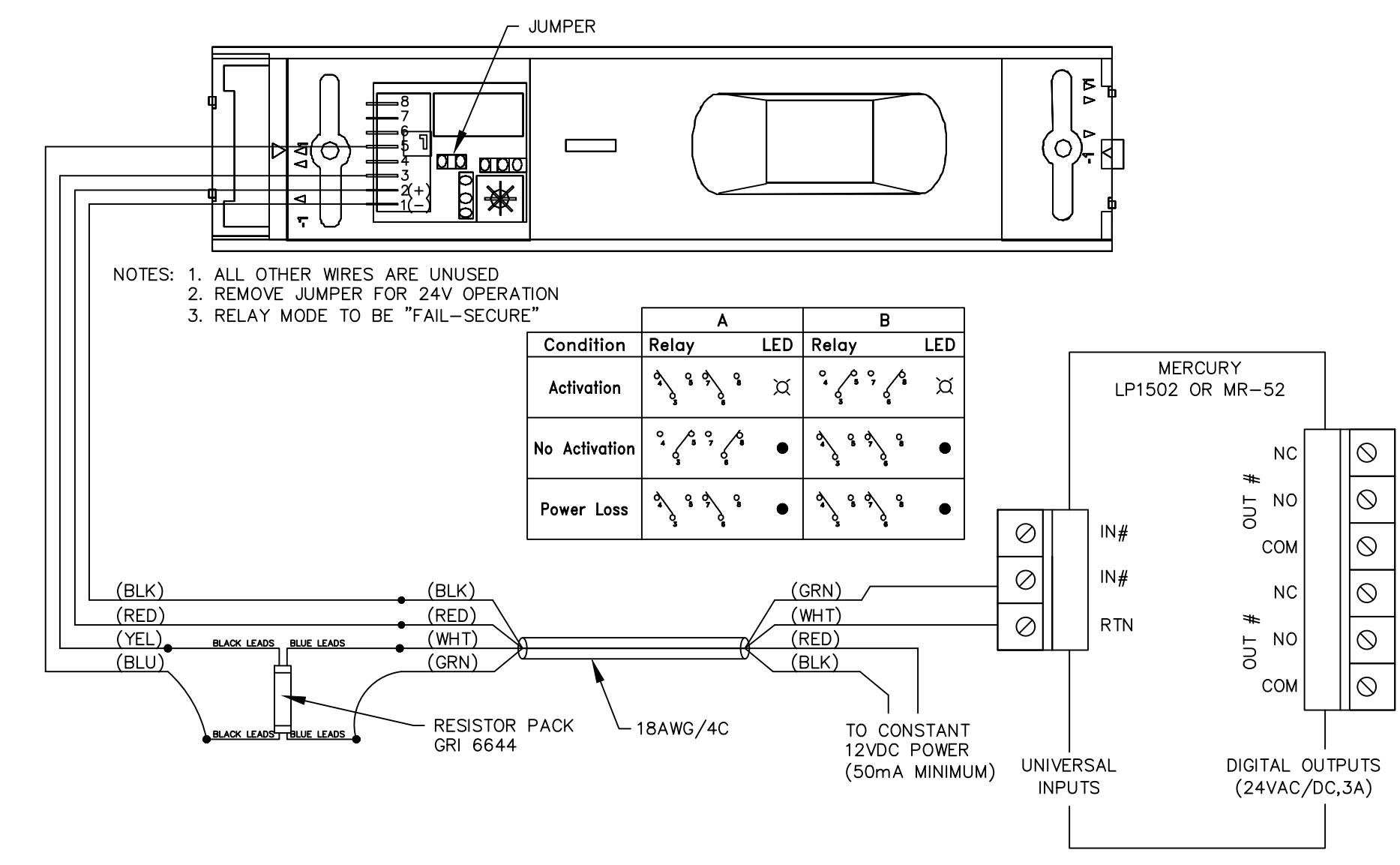
SHEET NUMBER:
RVC_BELL_W_LL



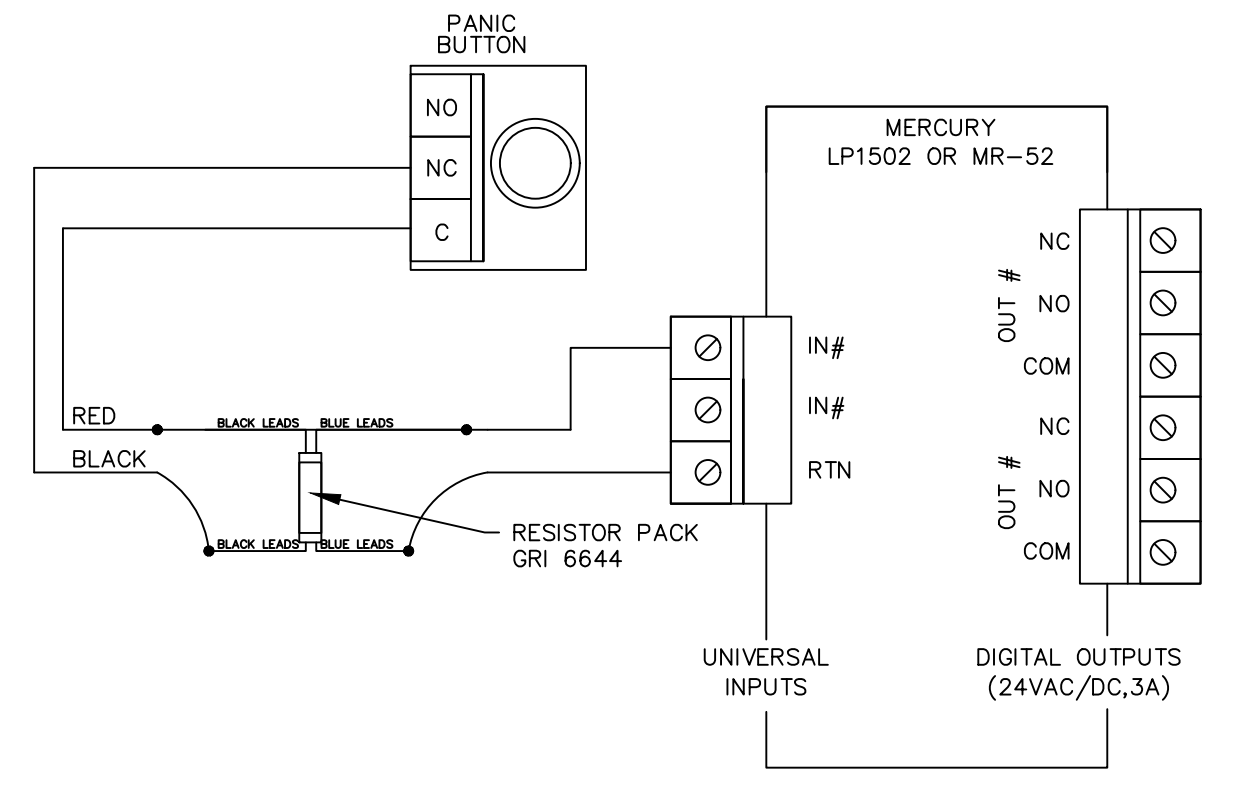
A TYPICAL SCHLAGE CARD READER WIRING DETAIL



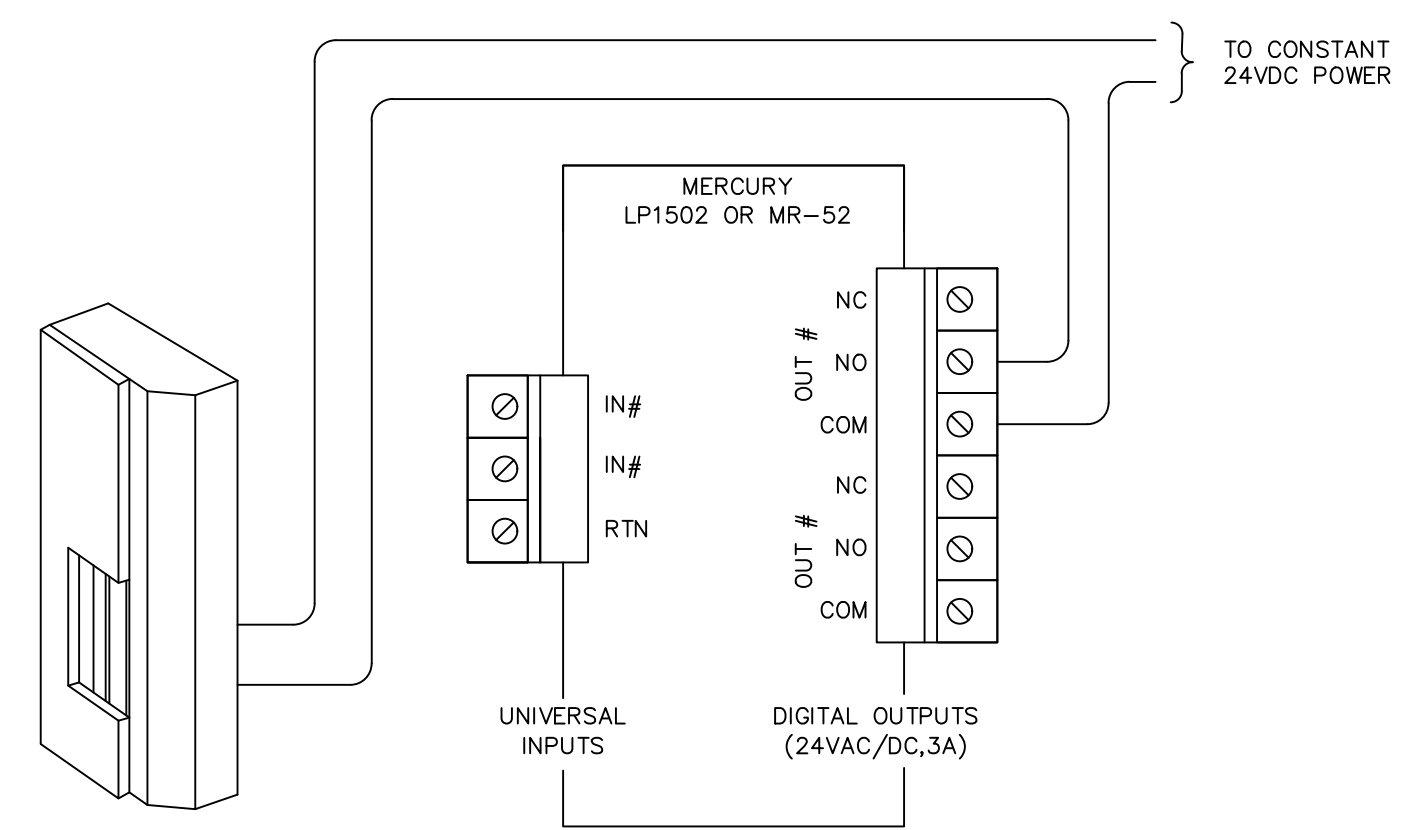
B DEVICE TERMINATION - RECESSED MULTIPLE DOOR MAGNETIC DOOR CONTACT
NOT TO SCALE



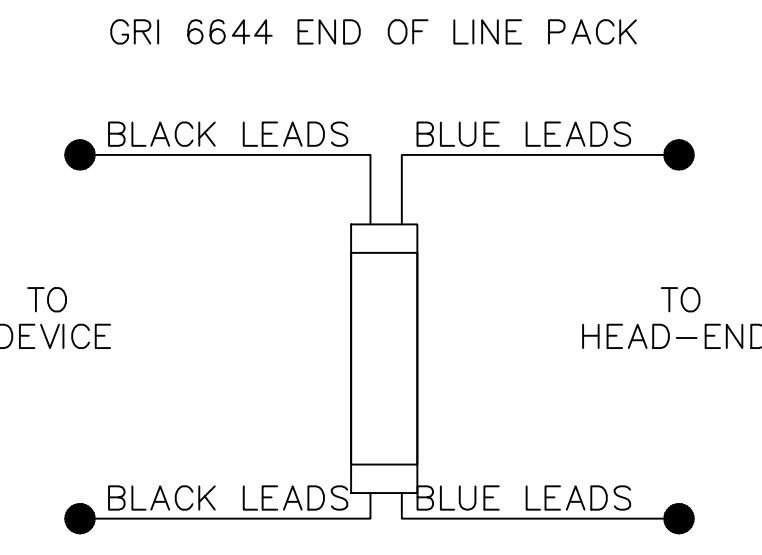
C TYPICAL REQUEST TO EXIT MOTION SENSOR WIRING DETAIL
NOT TO SCALE



D TYPICAL PANIC BUTTON WIRING DETAIL
NOT TO SCALE



E TYPICAL ELECTRIC DOOR STRIKE WIRING DETAIL
NOT TO SCALE



SITE NAME & ADDRESS
ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

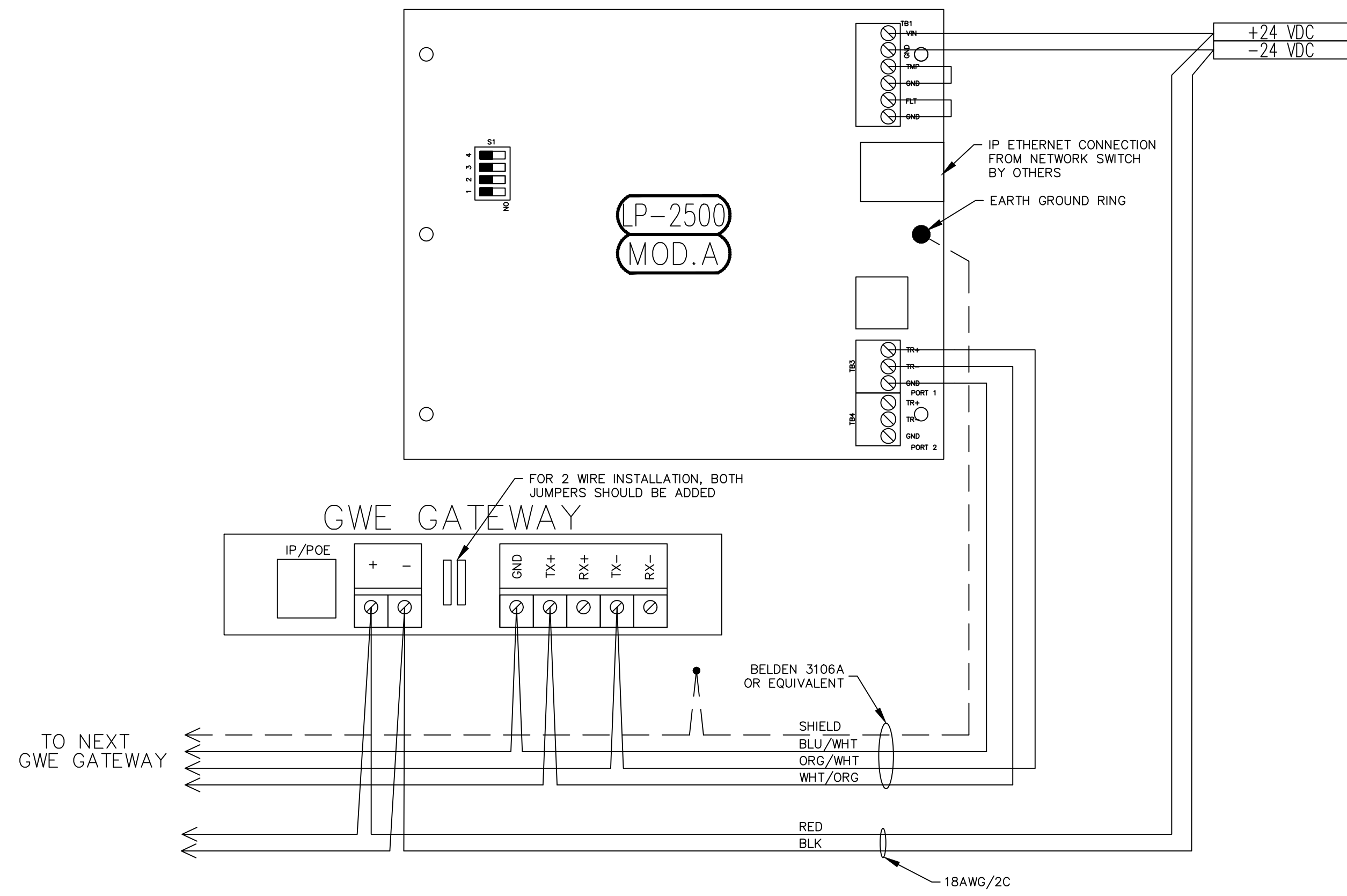
REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
ACCESS CONTROL
SYSTEM TERMINATION DETAILS - 1

PROJECT NUMBER:
GA24G3142
SHEET NUMBER:
RVC_BELL_A_400



A TYPICAL LP2500 CONTROLLER TO GWE GATEWAY WIRING DETAIL

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:

RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:

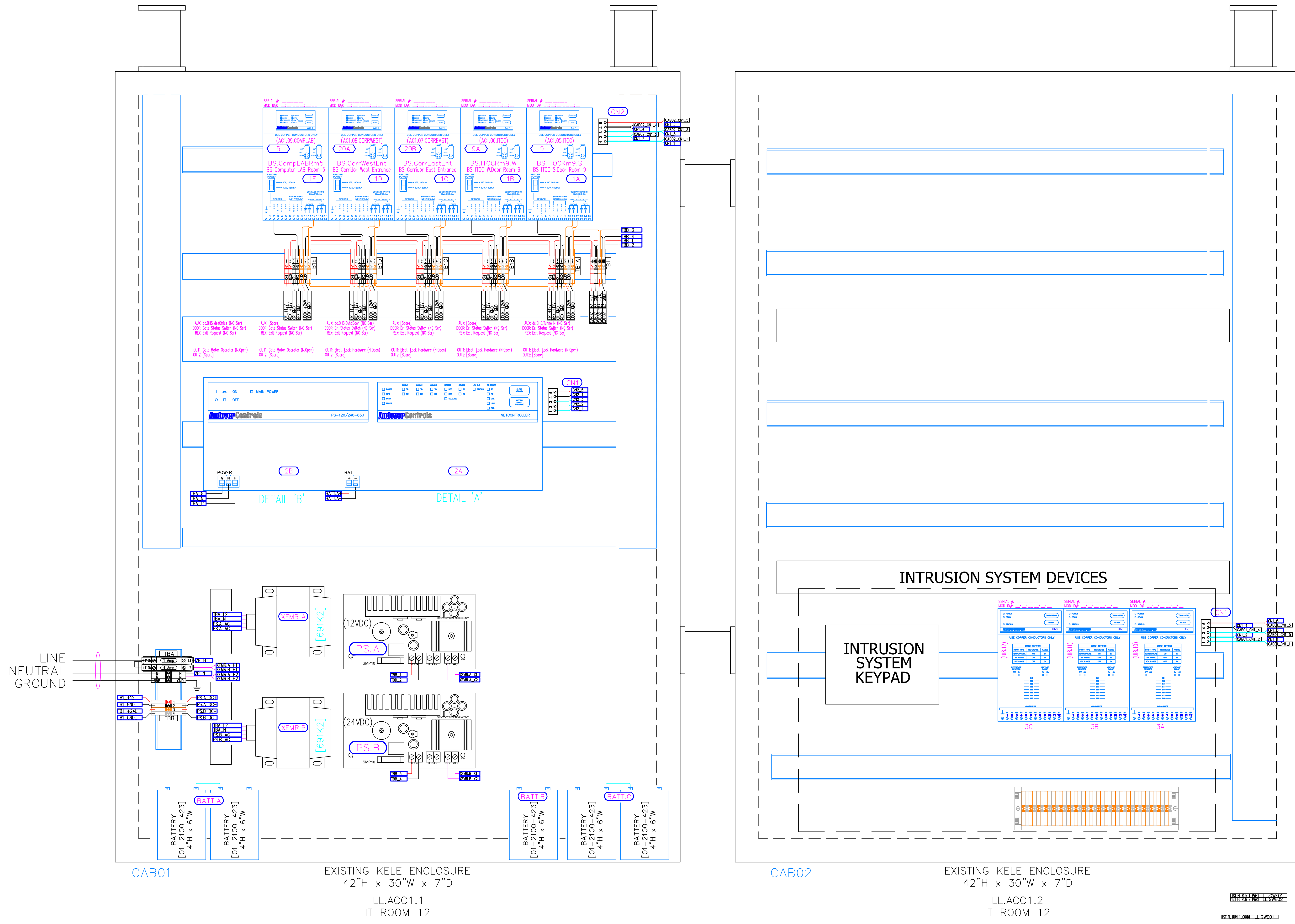
WIRELESS LOCK
SYSTEM TERMINATION DETAILS - 2

PROJECT NUMBER:

GA24G3142

SHEET NUMBER:

RVC_BELL_W_400



CAB01
EXISTING KELE ENCLOSURE
42"H x 30"W x 7"D
LL.ACC1.1
IT ROOM 12

CAB02
EXISTING KELE ENCLOSURE
42"H x 30"W x 7"D
LL.ACC1.2
IT ROOM 12

SITE NAME & ADDRESS
ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 24, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
ACCESS CONTROL & INTRUSION
PANEL BUILD
DETAILS - LL.ACC1.1 (CAB 1) &
LL.ACC1.2 (CAB 2) - DEMO

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_G_700_DEMO

ACCESS CONTROL
GENERAL NOTES:

THE CUSTOMER IS TO PROVIDE A NEW ETHERNET NETWORK CONNECTIONS FOR THE NEW GENETEC CONTROLLER FOR THE WIRELESS LOCK SYSTEM.
UTILIZED EXISTING ACCESS CONTROL NETWORK CONNECTION FOR THE NEW GENETEC CONTROLLERS.
REMOVE EXISTING CONTINUUM ACCESS CONTROL CONTROLLERS AND REPLACE THEM WITH GENETEC LP1502 & MR-52 CONTROLLERS.

KEY NOTES:

- 1 REPLACE EXISTING 12 AND 24VDC POWER SUPPLIES AND WIRE THE AC FAIL AND LOW BATTERY ALARM TO NEW ACCESS CONTROL SYSTEM.
- 2 PROVIDE 12V Ah BATTERY BACK-UP BATTERIES FOR THE NEW 12 AND 24VDC POWER SUPPLIES.
- 3 ADD A NEW LP2500 CONTROLLER FOR THE WIRELESS LOCKS SYSTEM.

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 24, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:

RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:

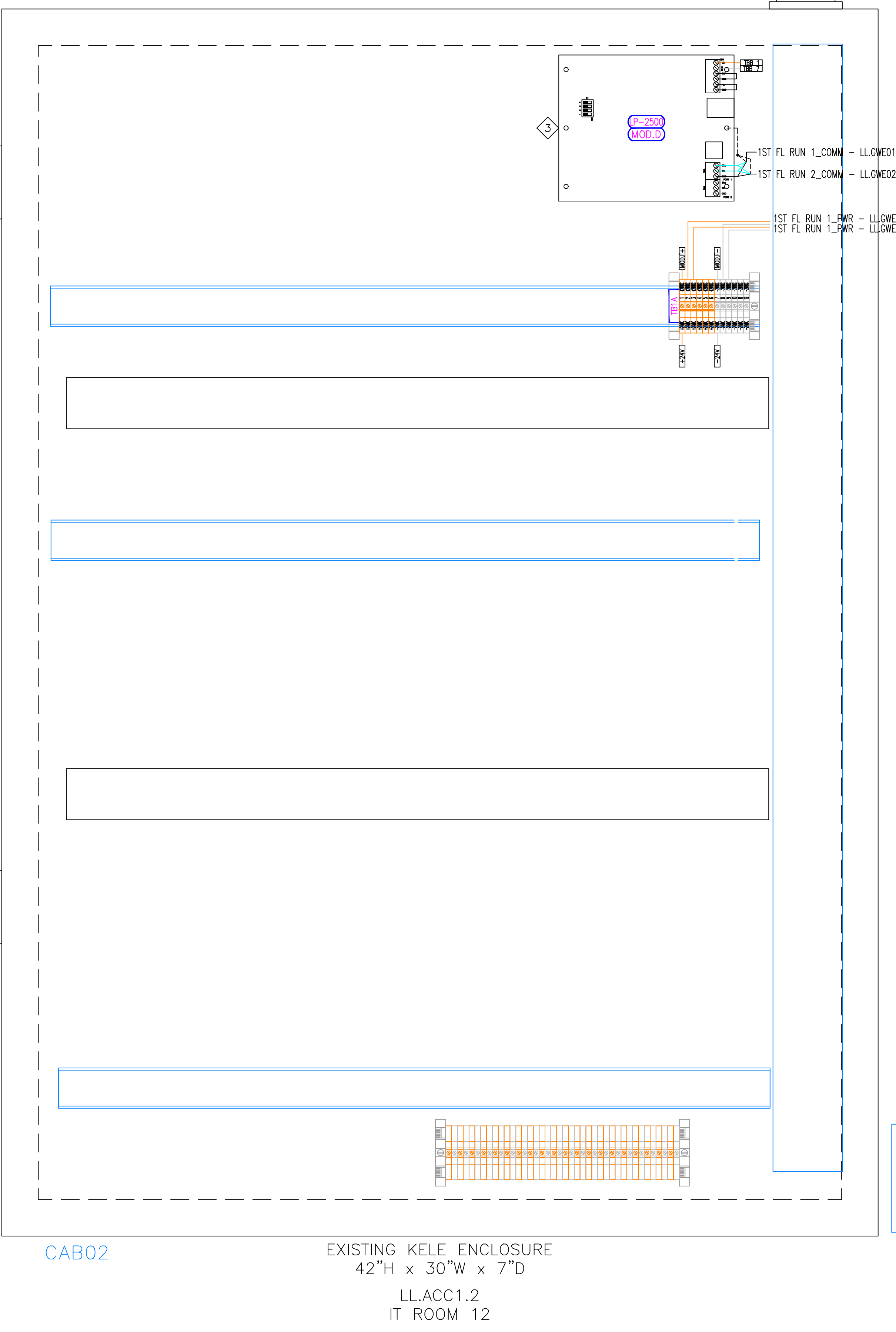
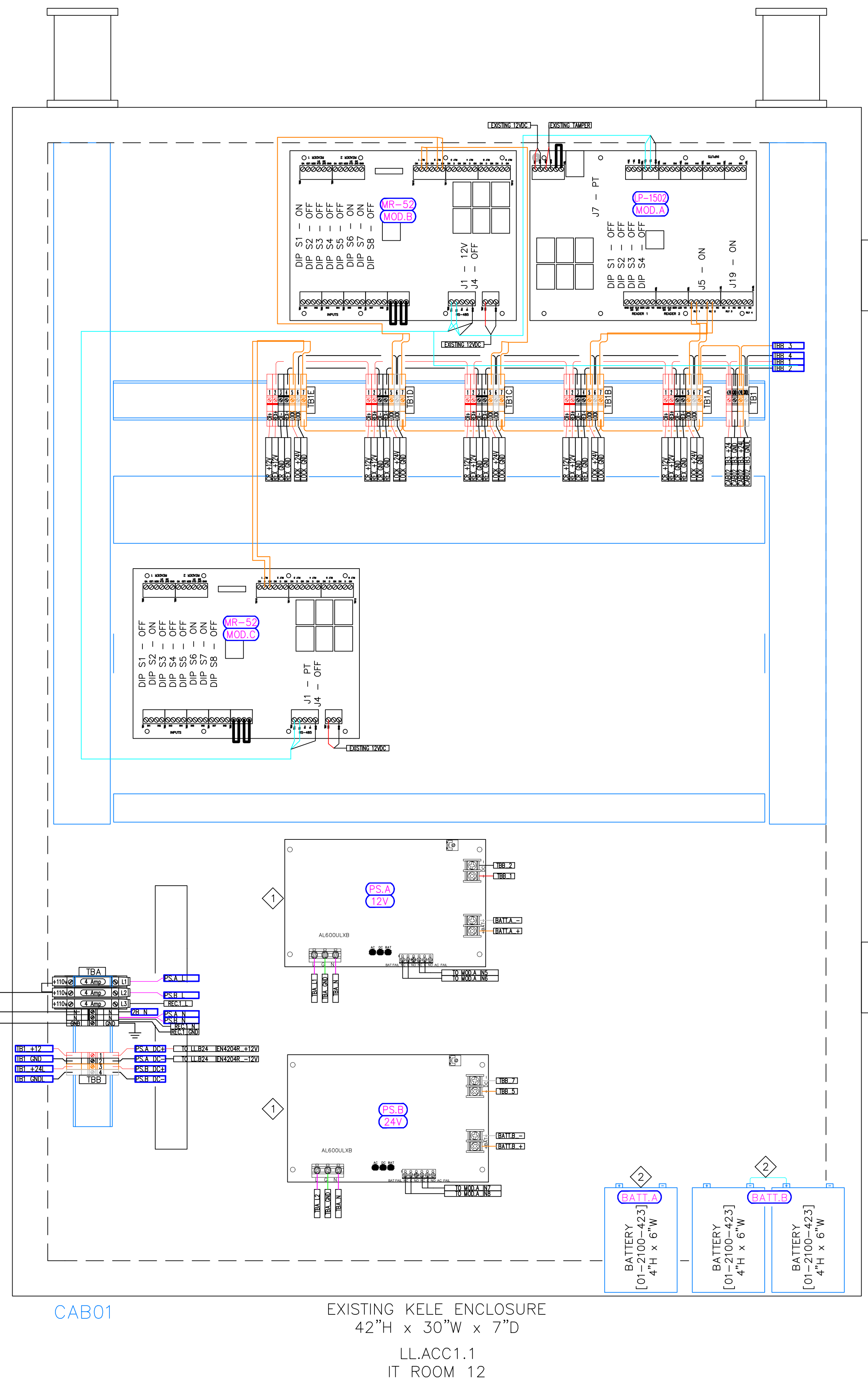
MULTIPLE SYSTEMS
PANEL BUILD DETAILS
LL.ACC1.1 (CAB1) &
LL.ACC1.2 (CAB 2) - NEW WORK

PROJECT NUMBER:

GA24G3142

SHEET NUMBER:

RVC_BELL_G_700



LINE
NEUTRAL
GROUND

1
2
3
4
5
6

1
2
3
4
5
6

Bell School - Door Contractor_Carpenter Package

Project Name: **Security Upgrades**

Project Number:

Prepared for:

Rock Valley College
3301 N. Mulford Rd.
Rockford, IL 61114

Architect: N/A
Contractor: N/A
Engineer: N/A

Table of Contents

Bell School - Door Contractor_Carpenter Package	1
Specifications	3
Specificationsl.pdf	4
Drawings set.....	5
Drawing set.pdf	6
Door Schedule	10
Door Schedule.pdf	11

Specifications

Door Contractor / Carpenter

Wireless Locks

1. Field Devices:

- A. Contractor to demo existing locking hardware and replace them with new Schlage NDE wireless locks.
- B. The contractor will provide any hardware needed for the wireless lock installation, such as scar plates, door drill templates, etc.
- C. Replace locking hardware batteries provided by the owner.

Owner

The Owner will supply the following items for installation and connection by this Contractor:

1. New batteries for the new wireless locks are only available upon upgrade from AD200 locks to AD400 locks or whenever necessary.

Drawings set

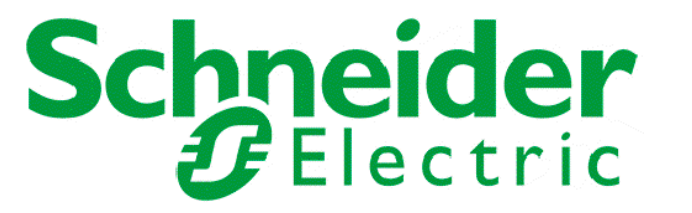
ROCK VALLEY COLLEGE BELL SCHOOL

3350 BELL SHOOOL RD.
ROCKFORD, IL 61114

DOOR CONTRACTOR / CARPENTER
PROJECT NUMBER: GA24G3142
ISSUED FOR REVIEW:

TABLE OF CONTENTS:

<u>SHEET NO.</u>	<u>REV.</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>SHEET DESCRIPTION</u>
RVC_BELL_W_001	1	ISSUED FOR REVIEW	07/26/24	WIRELESS LOCK SYSTEM TITLE SHEET & TABLE OF CONTENTS
RVC_BELL_G_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_BELL_W_LL	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - LOWER LEVEL
RVC_BELL_W_500	1	ISSUED FOR REVIEW	07/26/24	WIRELESS LOCK SYSTEM CONDUIT INSTALLATION DETAILS



1111 PASQUINELLI RD / WESTMONT, IL 60559
PHONE: 708.271.4700

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
WIRELESS LOCKS TITLE SHEET &
TABLE OF CONTENTS

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_W_001

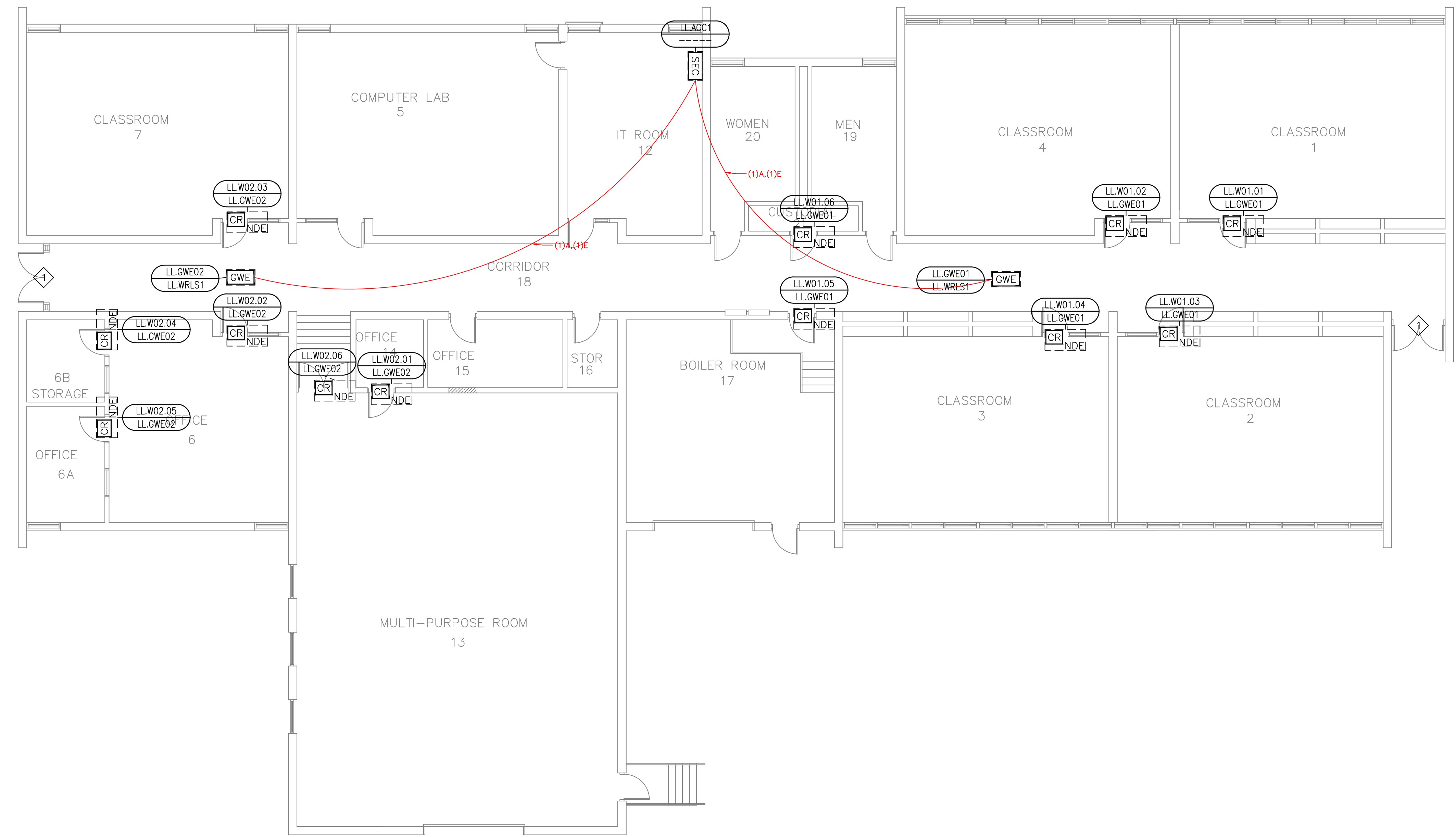
KEY NOTES:

- ⬠ ELECTRICAL CONTRACTOR TO PROVIDE (2) 18AWG/2C CABLES TO MAIN ENTRANCE AND REAR DOUBLE DOOR FOR NEW DOOR CONTACTS.

SCOPE OF WORK:

ELECTRICAL CONTRACTOR:
RUN COMMUNICATION AND POWER CABLE FROM HEAD-END TO EACH WIRELESS GATEWAY. TRIM, TERMINATE AND SET THE GATEWAYS. SEE LEGEND DRAWING G_100, WIRING DETAIL E_400 AND ELECTRICAL CONTRACTOR SPECIFICATIONS.

ACCESS CONTROL CONTRACTOR:
TRIM AND TERMINATE COMMUNICATION AND POWER CABLES AT THE HEAD-END PANEL, PROGRAM AND CONFIGURE THE GATEWAYS.



SITE NAME & ADDRESS
ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 16, 2024
SCALE: 1/8" = 1'-0"
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

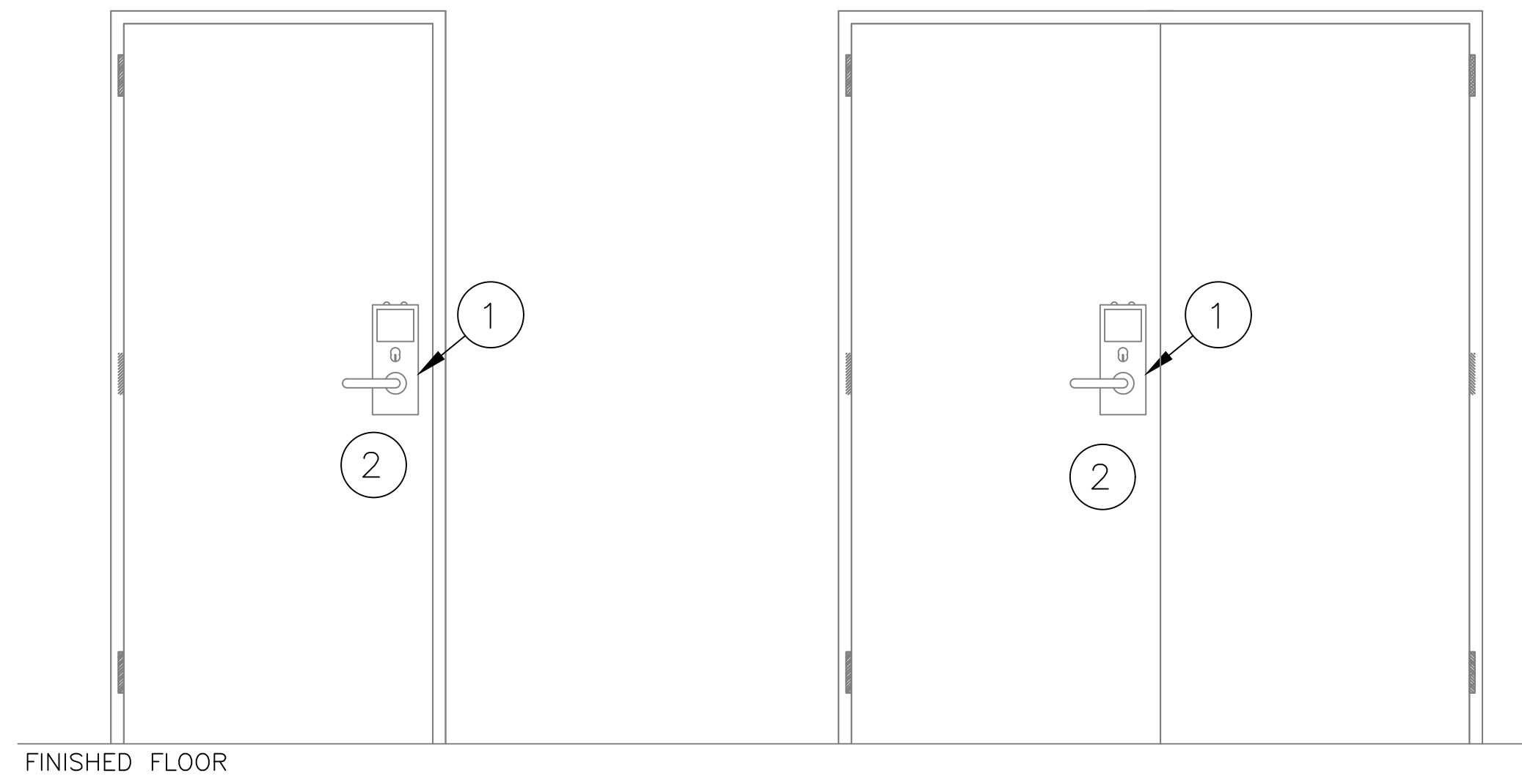
SHEET TITLE:
DEVICE LOCATIONS -
WIRELESS LOCKS
LOWER LEVEL

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_W_LL

GENERAL NOTES:

DOOR CONTRACTOR/CARPENTER TO PROVIDE ANY HARDWARE NECESSARY TO MOUNT NEW WIRELESS LOCK. SEE DETAIL 1.



- ① DOOR CONTRACTOR SHALL FOLLOW THE SCHLAGE NDE LOCK INSTRUCTIONS AND INSTALLATION MANUALS AND PROVIDE ANY SCAR PLATE OR HARDWARE NEEDED FOR THE RETROFIT OR NEW INSTALLATION.
- ② DOOR CONTRACTOR TO INSTALL NEW BATTERIES PROVIDED BY CUSTOMER.

① CONDUIT DETAIL – SINGLE AND DOUBLE DOOR NDE WIRELESS LOCK
NOT TO SCALE

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
WIRELESS LOCK DEVICES
CONDUIT INSTALLATION DETAILS – 1

PROJECT NUMBER:
GA24G3142
SHEET NUMBER:
RVC_BELL_W_500

Door Schedule

Bell - Door Schedule															
Room#	Location	Drawing Loc.	Series / Class	Chasis	Fuction	Reader	Lever	Finish	Cylinder Type	Keyway Type	Handling	Battery holder	Backset/Latch/ Armor front	Door Thinkness	Notes
1	Classroom	LL.W01.01	NDE / Allegion												
2	Classroom	LL.W01.03	NDE / Allegion												
3	Classroom	LL.W01.04	NDE / Allegion												
4	Classroom	LL.W01.02	NDE / Allegion												
6	Office	LL.W02.02	NDE / Allegion												
7	Classroom	LL.W02.03	NDE / Allegion												
13	Multi-Purpose Room	LL.W02.06	NDE / Allegion												
14	Office	LL.W02.01	NDE / Allegion												
17	Boiler Room	LL.W01.05	NDE / Allegion												
21	Custodial	LL.W01.06	NDE / Allegion												
6a	Office	LL.W02.05	NDE / Allegion												
6b	Storage	LL.W02.04	NDE / Allegion												

Note: Door contractor / Carpenter to fill in door information

Bell School - Electric Contractor Package

Project Name: **Security Upgrades**

Project Number:

Prepared for:

Rock Valley College
3301 N. Mulford Rd.
Rockford, IL 61114

Architect: N/A
Contractor: N/A
Engineer: N/A

Table of Contents

Bell School - Electric Contractor Package.....	1
Specifications	3
Specifications.pdf.....	4
Drawings set.....	6
Drawing set.pdf.....	7

Specifications

Electrical Contractor

COORDINATION DRAWINGS

1. Definitions:

A. Coordination Drawings: A compilation of the pertinent layout and system drawings that show the sizes and locations, including elevations, of system components and required access areas to ensure that no two objects will occupy the same space.

1). Electrical trades shall include, but are not limited to, electrical equipment, conduit 3/4" and larger, cable trays, pull boxes, raceway, receptacles, ceiling-mounted devices, and any item that may impact coordination with other disciplines.

Wireless Locks

1. Field Devices:

A. The electrical contractor shall provide cables for the wireless lock gateways, mount them, and trim them. For more information, see device location drawings for every site, riser diagrams (W_300), wiring details (W_400), and conduit details (W_500).

2. Cable requirements:

- A. RS-485 Data: Provide a 22AWG/1 pair and a 22AWG/1C, shielded, low-cap, plenum-rated, or equivalent.
- B. 12/24 VDC power: Provide 18AWG/2C plenum-rated for distances <200ft, otherwise 16AWG/2C plenum-rated.
- C. IP Communication: CAT-6 plenum-rated or better.

3. Head-End:

- A. Mount the new panel and provide any necessary conduit for the incoming field cables or any connection between existing and new panel modifications. See panel layouts.
- B. Provide 120 VAC from a dedicated circuit at the head-end if necessary. See panel Layout.

Intrusion

1. Field Devices:

A. The electrical contractor is to provide two 18-awg/2 conductor per door for the main and rear double doors for the new D.P.D.T door contact. Door contact is to be provided by the intrusion contractor. See drawing W_LL.

Rock Valley College
Bell School

B. Head-End:

- A. Utilize existing 120 VAC to install a new 4 Amp fused receptacle for the new intrusion system panel.

Drawings set

ROCK VALLEY COLLEGE BELL SCHOOL

3350 BELL SHOOD RD.
ROCKFORD, IL 61114

ELECTRICAL PACKAGE
PROJECT NUMBER: GA24G3142
ISSUED FOR REVIEW:

TABLE OF CONTENTS:

<u>SHEET NO.</u>	<u>REV.</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>SHEET DESCRIPTION</u>
RVC_BELL_E_001	1	ISSUED FOR REVIEW	07/26/24	SYSTEM TITLE SHEET & TABLE OF CONTENTS
RVC_BELL_G_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_BELL_W_LL	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - LOWER LEVEL
RVC_BELL_W_300	1	ISSUED FOR REVIEW	07/26/24	WIRELESS LOCKS SYSTEM RISER DIAGRAM
RVC_BELL_E_400	1	ISSUED FOR REVIEW	07/26/24	WIRELESS LOCK SYSTEM GATEWAY TERMINATION AND MOUNTING DETAILS
RVC_BELL_E_700	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - NEW WORK
RVC_BELL_G_800	1	ISSUED FOR REVIEW	07/26/24	MULTIPLE SYSTEMS PANEL ELEVATIONS



1111 PASQUINELLI RD / WESTMONT, IL 60559
PHONE: 708.271.4700

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			










DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM









SHEET TITLE:
WIRELESS LOCKS TITLE SHEET &
TABLE OF CONTENTS


PROJECT NUMBER:
GA24G3142
SHEET NUMBER:
RVC_BELL_E_001

ACCESS CONTROL SYSTEM DEVICE LEGEND:

-  _{NDE} NDE SCHLAGE WIRELESS LOCK W/ BUILT-IN REQUEST TO EXIT, DOOR STATUS LOCK STATUS
-  GWE GATEWAY
-  SECURITY SYSTEM CABINET
-  EXISTING DOOR CONTACT
-  D.P.D.T. DOOR CONTACT (ONE POLE TO BE WIRED TO ACCESS CONTROL AND THE OTHER TO THE INTRUSION SYSTEM)
-  REQUEST-TO-EXIT MOTION SENSOR
-  NEW SCHLAGE MTB SERIES CARD READER, WALL-MOUNT
-  ELECTRIC MORTISE LOCKING HARDWARE W/ BUILT-IN REX
-  ELECTRONIC CRASH BAR LOCKING HARDWARE

INTRUSION SYSTEM DEVICE LEGEND:

-  INTRUSION KEY PAD
-  CEILING-MOUNTED MOTION SENSOR
-  WALL-MOUNTED MOTION SENSOR
-  EXISTING DOOR CONTACT
-  D.P.D.T. DOOR CONTACT (ONE POLE TO BE WIRED TO ACCESS CONTROL AND THE OTHER TO THE INTRUSION SYSTEM)
-  AED CABINET DOOR CONTACT
-  GLASS BREAK SENSOR
-  PANIC BUTTON/DURESS BUTTON

 RX_4 INOVONICS EN4240R RECEIVER W/ FOUR RELAYS

POWER / NETWORK / MISC DEVICE LEGEND:

 BURGLAR PANEL

WIRING SPECIFICATIONS & CONDUIT SIZING:

#	WIRE TYPE
A	18AWG / 2 CONDUCTOR, PLENUM
B	18AWG / 4 CONDUCTOR, PLENUM
C	18AWG / 5 CONDUCTOR, SHIELDED, PLENUM
D	23AWG / 4 PAIR CAT-6, PLENUM
E	22AWG / 1 PAIR AND AN 22AWG / 1 CONDUCTOR, SHIELDED, LOW-CAP, PLENUM (RS-485)
F	"NOT USED"
G	"NOT USED"
H	"NOT USED"
J	"NOT USED"
K	"NOT USED"
L	"NOT USED"
M	"NOT USED"
N	"NOT USED"
P	"NOT USED"
Q	"NOT USED"
R	"NOT USED"

PERMISSIBLE CONDUIT FILL BASED ON OCCUPIED AREA (NEC RECOMMENDED 40% FILL FACTOR)

CONDUIT SIZE (IN)	PERMISSIBLE FILL (SQ. IN.)
3/4"	0.21 SQUARE IN.
1"	0.35 SQUARE IN.
1 1/4"	0.60 SQUARE IN.
1 1/2"	0.81 SQUARE IN.
2"	1.34 SQUARE IN.
2 1/2"	1.92 SQUARE IN.
3"	2.96 SQUARE IN.
3 1/2"	3.95 SQUARE IN.
4"	5.09 SQUARE IN.

NOTE 1: TABLE DEVELOPED FOR STEEL OR ALUMINUM ALLOY CONDUIT ONLY.

NOTE 2: NEC PRESCRIBED 40% FILL FACTOR IS FOR (3) OR MORE CABLES. A SINGLE CABLE CAN OCCUPY 53% OR TWO CABLES ARE LIMITED TO 31% CONDUIT FILL.

GENERAL NOTES

- 1) ALL CONDUIT IS TO BE 3/4" WITH PULL STRING UNLESS OTHERWISE SPECIFIED ON DRAWING. ARROW DENOTES HOME RUN BACK TO SECURITY EQUIPMENT LOCATION AS NOTED.
- 2) ALL DEVICES ARE HOME RUN WIRED UNLESS OTHERWISE SPECIFIED.
- 3) VERIFY ALL SITE CONDITIONS AND REPORT ALL PROBLEMS TO SCHNEIDER ELECTRIC.
- 4) FOLLOW CONDUIT FILL REQUIREMENTS AS DOCUMENTED BELOW ON THE WIRING LEGEND AND PRESCRIBED CONDUIT FILL TABLES. CONDUIT SPECIFIED BY ELECTRICAL CONTRACTOR CANNOT EXCEED A 40% FILL UNDER ANY CIRCUMSTANCES.
- 5) ALL CONDUIT FOR SECURITY / CCTV SYSTEM SHALL ONLY CONTAIN SECURITY & CCTV SYSTEM CABLES. WIRE FROM OTHER TRADES IS NOT PERMITTED IN THE SECURITY / CCTV CONDUIT SYSTEM UNDER ANY CIRCUMSTANCES.
- 6) BURIAL RATED CABLE TO BE USED FOR ANY UNDERGROUND RUNS.
- 7) ALL DRAWINGS INDICATE CURRENT PROJECT SCOPE WITH DARKENED PRINT. GRAYED DEVICES & WIRING INDICATE WORK THAT WAS PREVIOUSLY COMPLETED BUT IS CURRENTLY PART OF THE FULL SYSTEM.
- 8) PLENUM RATED CABLE TO BE USED IN ALL PLENUM CEILING AREAS. CONDITIONS TO BE FIELD VERIFIED AND REPORTED BACK TO SCHNEIDER ELECTRIC IF DIFFERENT THAN SHOWN ON DRAWINGS.

SYMBOLS

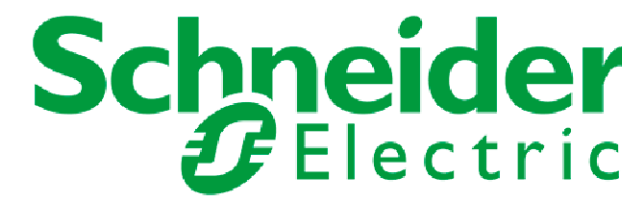
- XX = FLOOR NUMBER OR "ST" FOR SITE
- A = BUILDING AREA OR QUADRANT
- B = SYSTEM TYPE (SEE SYSTEM TYPES/PANEL TYPES LEGEND)
- ?? = SEQUENTIAL NUMBER IDENTIFIER
- ZZZZ = PANEL/HEAD-END LOCATION NUMBER
- YY = CONDUIT DETAIL NUMBER
- B_??? = DRAWING NUMBER
- REVISION NUMBER IDENTIFIER
- KEY NOTE IDENTIFIER

SYSTEM TYPES

- A = ACCESS CONTROL FIELD LOCATION
- C = CAMERA SYSTEM FIELD LOCATION
- W = WIRELESS LOCKS
- B = BURG / INTRUSION DETECTION

PANEL TYPES

- ACC = ACCESS CONTROL PANEL
- CAM = CAMERA SYSTEM HEAD-END/PANEL
- WRLS = LOCK WIRELESS SYSTEM HEAD-END
- BURG = BURG / INTRUSION SYSTEM HEAD-END



1111 PASQUINELLI RD./ WESTMONT, IL 60559
PHONE: 708.271.4700

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:

RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:

SYMBOL LEGEND &
GENERAL NOTES

PROJECT NUMBER:

GA24G3142

SHEET NUMBER:

RVC_BELL_G_100

KEY NOTES:

- ⬡ ELECTRICAL CONTRACTOR TO PROVIDE (2) 18AWG/2C CABLES TO MAIN ENTRANCE AND REAR DOUBLE DOOR FOR NEW DOOR CONTACTS.

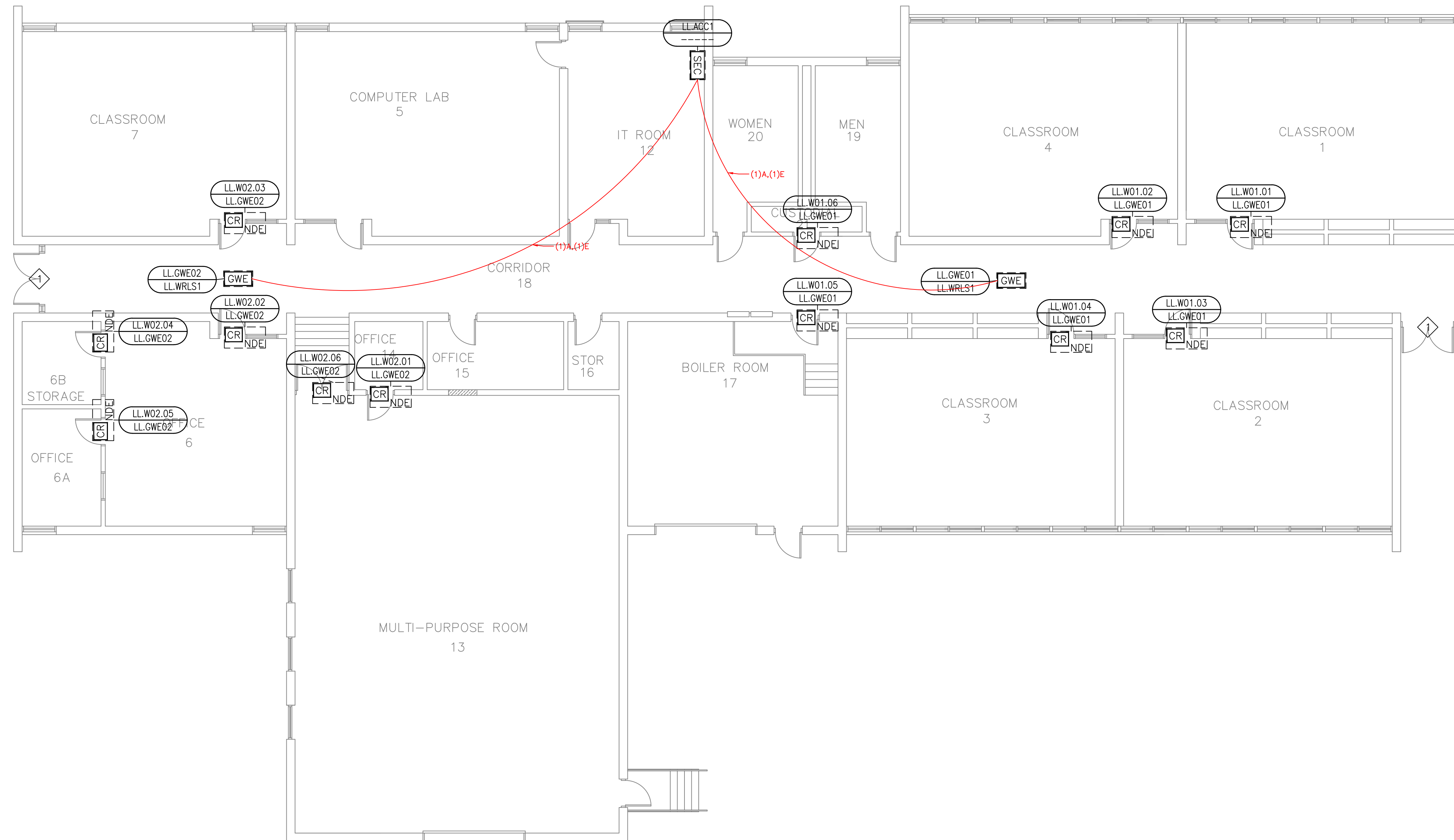
SCOPE OF WORK:

ELECTRICAL CONTRACTOR:

RUN COMMUNICATION AND POWER CABLE FROM HEAD-END TO EACH WIRELESS GATEWAY. TRIM, TERMINATE AND SET THE GATEWAYS. SEE LEGEND DRAWING G_100, WIRING DETAIL E_400 AND ELECTRICAL CONTRACTOR SPECIFICATIONS.

ACCESS CONTROL CONTRACTOR:

TRIM AND TERMINATE COMMUNICATION AND POWER CABLES AT THE HEAD-END PANEL, PROGRAM AND CONFIGURE THE GATEWAYS.



SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

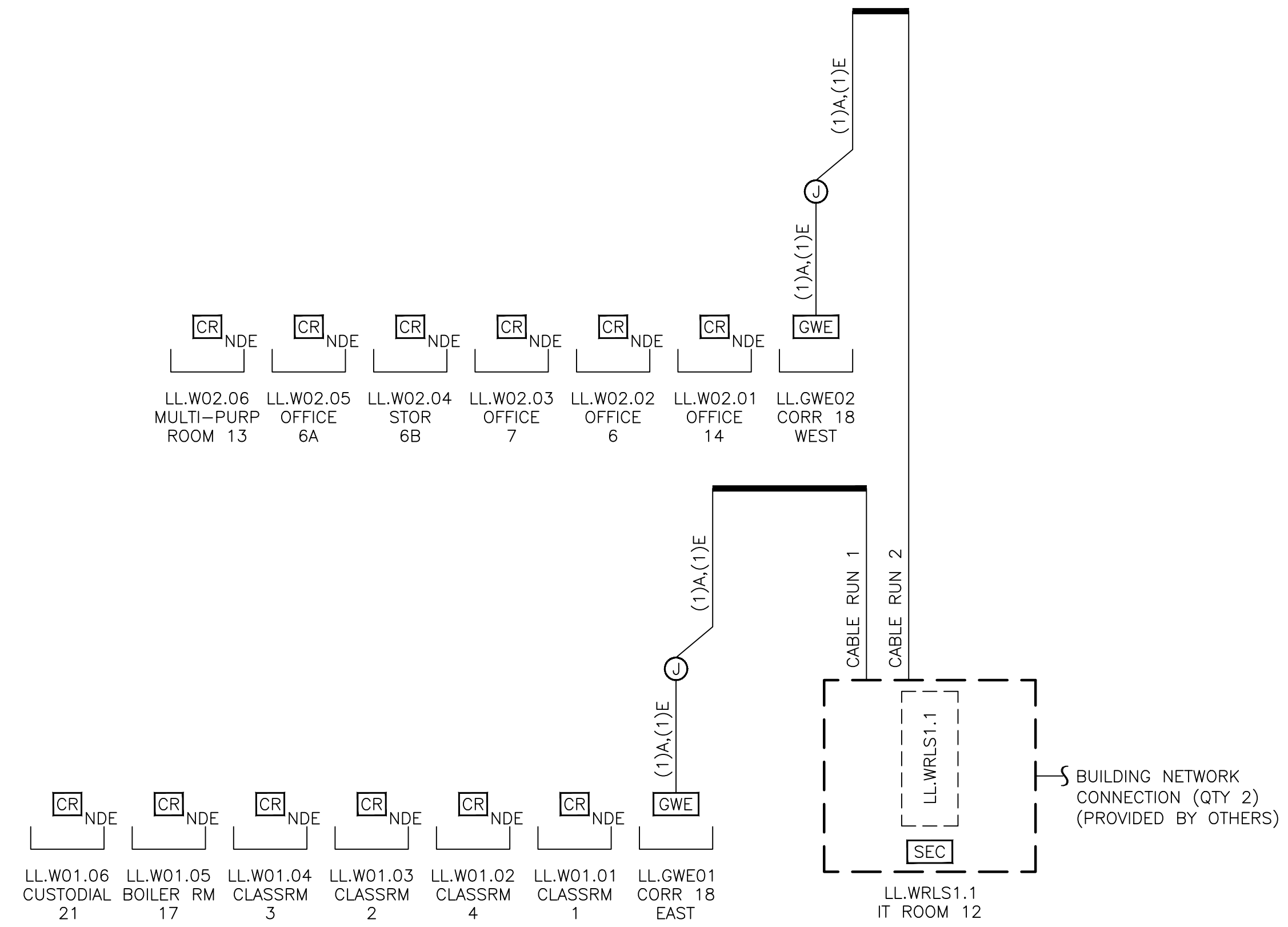
DATE: JULY 16, 2024
SCALE: 1/8" = 1'-0"
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
DEVICE LOCATIONS -
WIRELESS LOCKS
LOWER LEVEL

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_W_LL



LOWER LEVEL

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

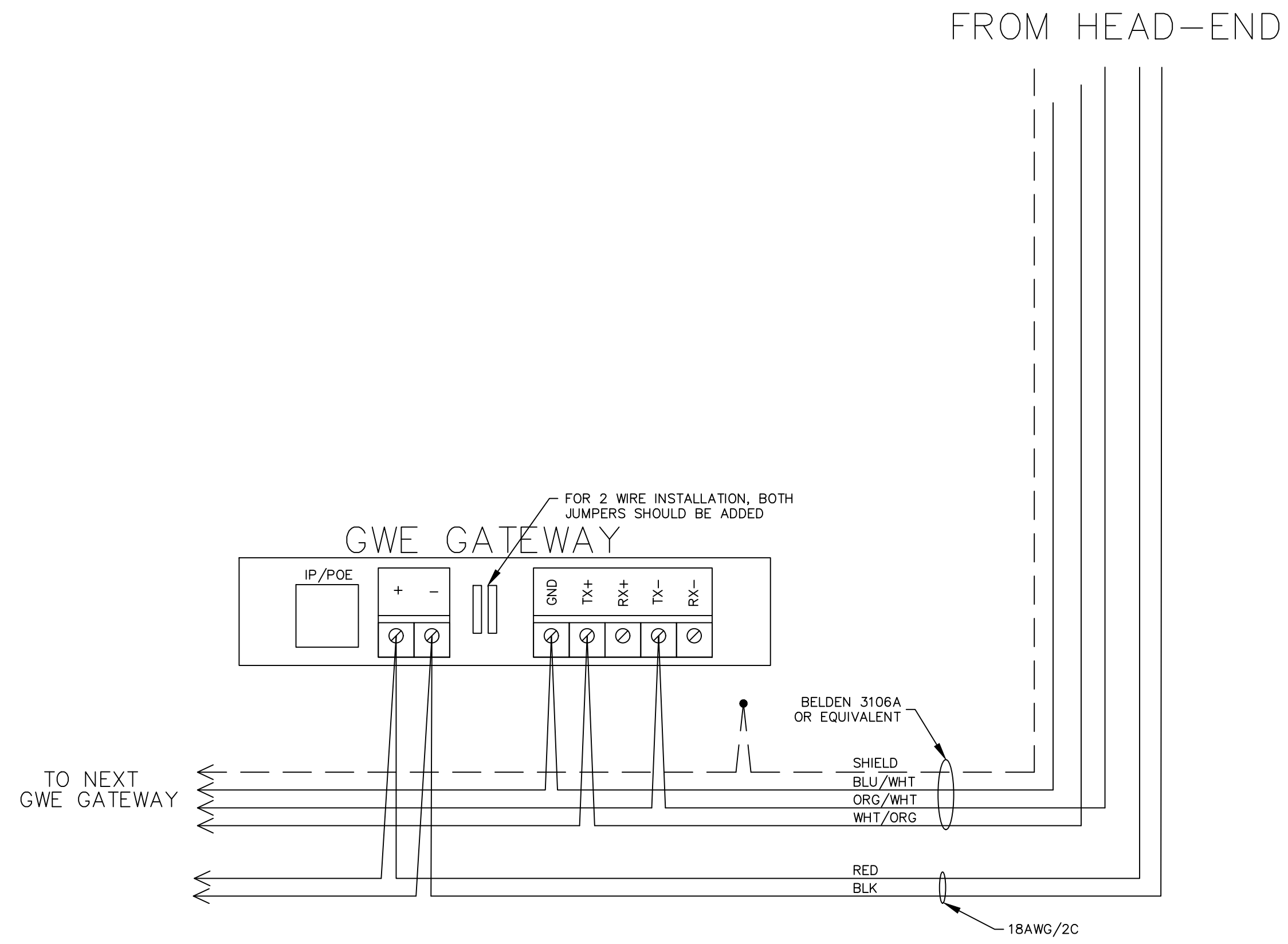
PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
WIRELESS LOCKS
RISER DIAGRAM

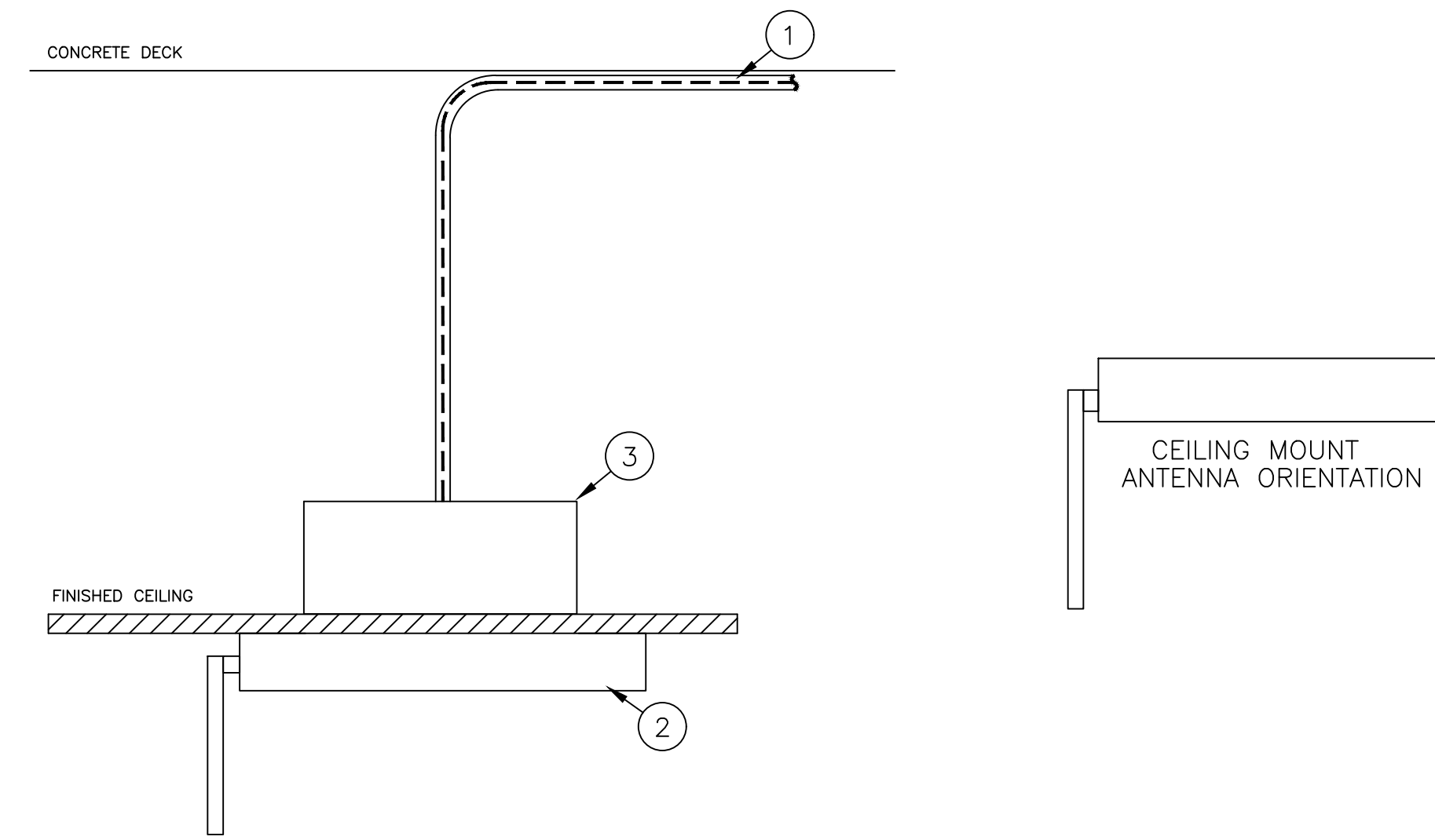
PROJECT NUMBER:
GA24G3142
SHEET NUMBER:
RVC_BELL_W_300

GENERAL NOTES:

ELECTRICAL CONTRACTOR TO MOUNT, TRIM AND SET THE WIRELESS LOCKS GATEWAYS. SEE ELECTRICAL CONTRACTOR SPECIFICATIONS.



A TYPICAL GWE GATEWAY WIRING DETAIL



- ① POWER AND COMMUNICATION CABLE TO BE RUN TO HEAD-END. SEE CABLE RISER DIAGRAM (W_300). CABLE TO BE OPEN RING ROUTED ABOVE CEILING TO THE HEAD-END. ELECTRICAL TO VERIFY PROPER BUILDING CABLING REQUIREMENTS PLENUM OR NON-PLENUM.
- ② GWE GATEWAY TO BE PROVIDED BY SECURITY CONTRACTOR
- ③ NEW GATEWAYS SHALL BE MOUNTED ON CEILING TILES. PROVIDE A 4" x 4" x 2 1/8" DEEP BOX TO MOUNT GATEWAY.

B CONDUIT DETAIL - GWE GATEWAY MOUNT DETAIL

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

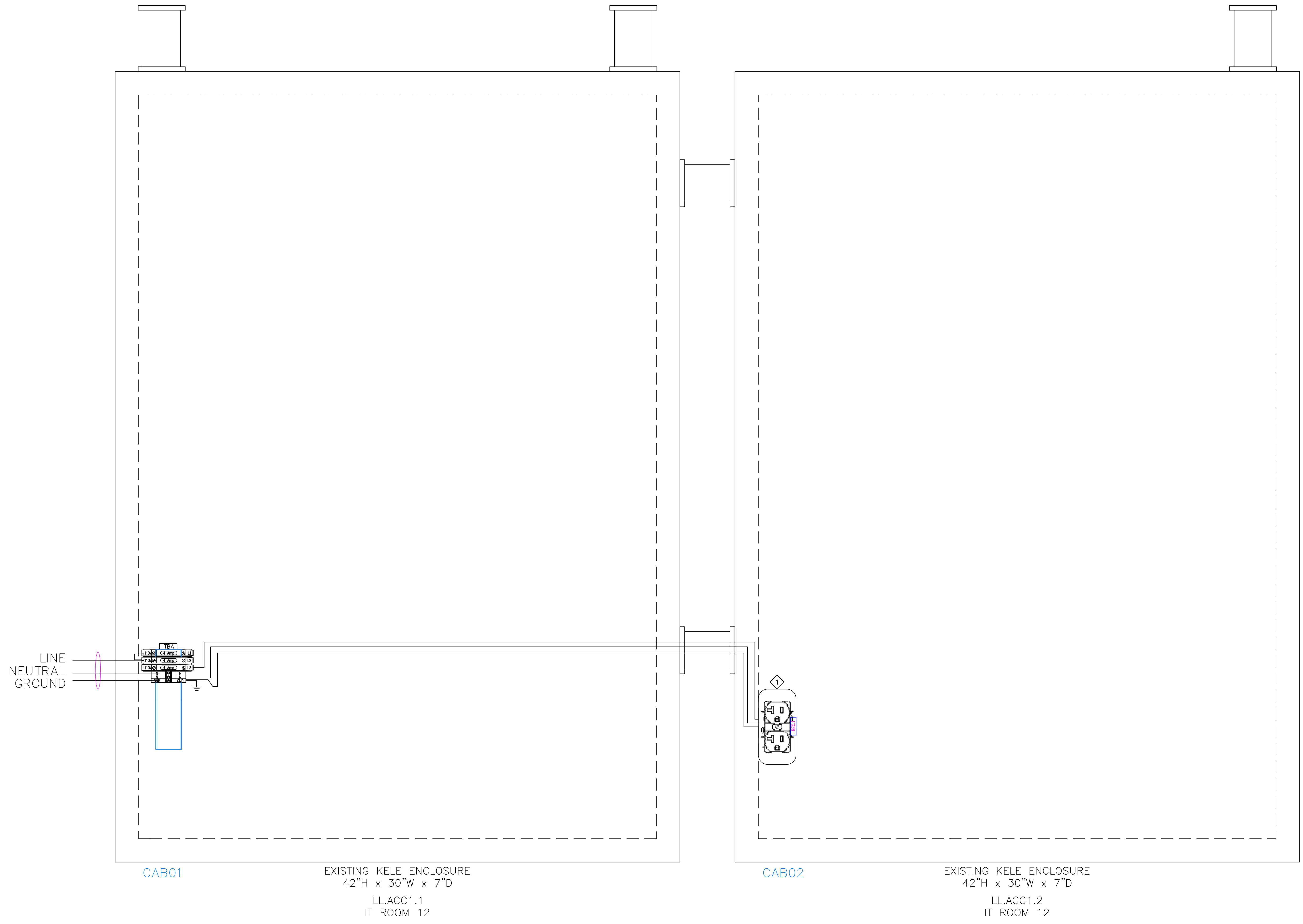
SHEET TITLE:
WIRELESS LOCK SYSTEM
GATEWAY TERMINATION AND MOUNTING
DETAILS

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_E_400

KEY NOTES:

⬠ ELECTRICAL TO PROVIDE A 4AMP FUSED RECEPTACLE FOR THE NEW INTRUSION SYSTEM. UTILIZE EXISTING 120VAC. SEE DRAWING A_800.



SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

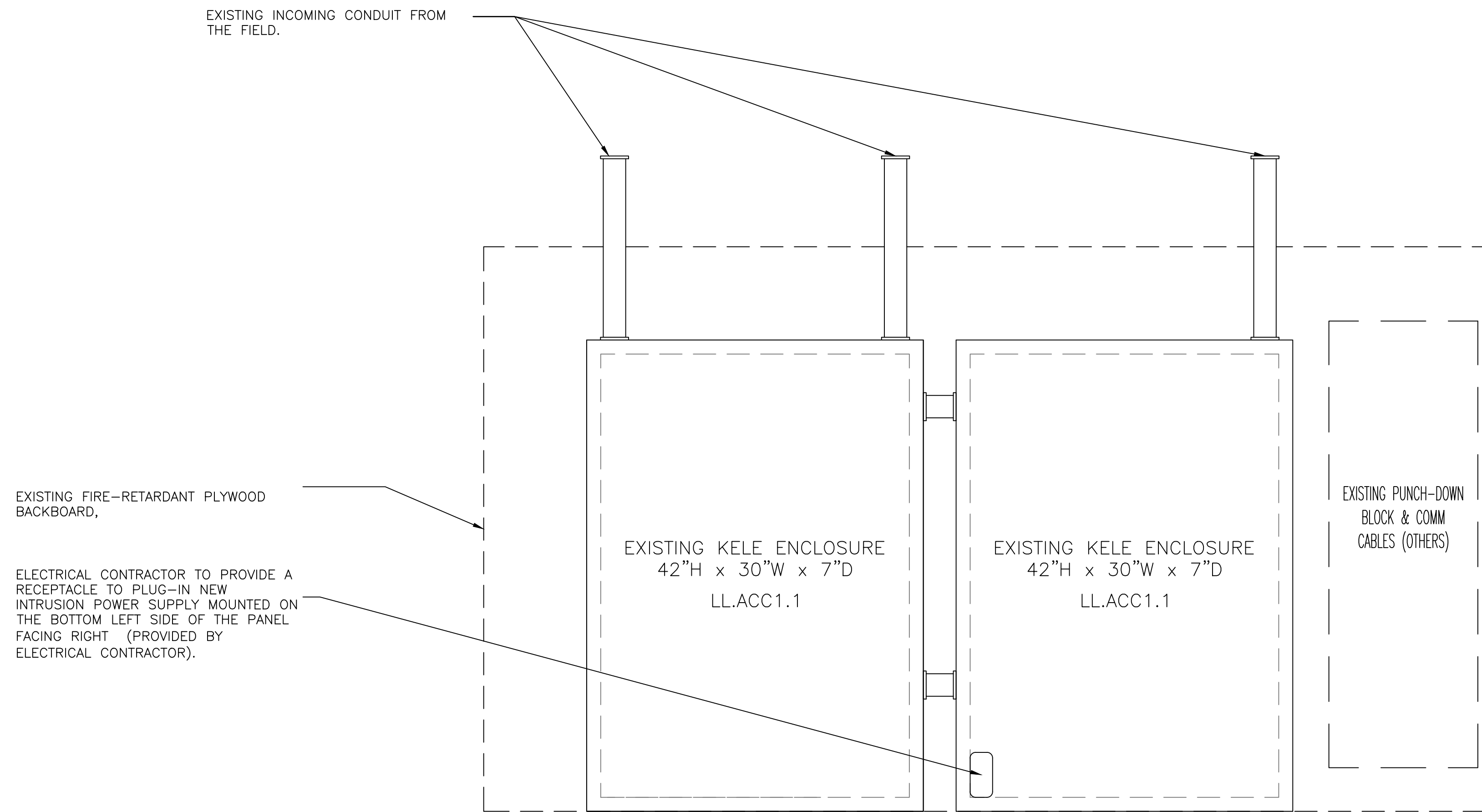
DATE: JULY 24, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
ACCESS CONTROL & WIRELESS
LOCK SYSTEM PANEL BUILD
DETAILS - LL.ACC1.1 (CAB1) &
LL.ACC1.2 (CAB 2) - NEW WORK

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_E_700



FINISHED FLOOR

1 IT CLOSET 12 (LL.ACC1) – ACCESS CONTROL PANEL ELEVATION

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:

RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:

ACCESS CONTROL, INTRUSION
& WIRELESS LOCKS PANEL
ELEVATIONS

PROJECT NUMBER:

GA24G3142

SHEET NUMBER:

RVC_BELL_G_800

Bell School - Intrusion Package

Project Name: **Security Upgrades**

Project Number:

Prepared for:

Rock Valley College
3301 N. Mulford Rd.
Rockford, IL 61114

Architect: N/A
Contractor: N/A
Engineer: N/A

Table of Contents

Bell School - Intrusion Package	1
Specifications	3
Specifications.pdf	4
Drawings set.....	5
Drawing set.pdf	6
Points List	11
Intrusion Points List.pdf	12

Specifications

Intrusion system

1. Field Devices:

- A. Demo and replace existing Intrusion field devices with new intrusion devices. Replace existing door contacts at the main and rear double doors with DPDT door contacts. See drawing B_LL
- B. Replace any intrusion-supervised EOL resistors and install them by the field device if installed at the head-end.
- C. Provide an EN4204R and two EN1235F for the new wireless panic buttons in the office area. See drawing B_LL

2. Head-End:

- A. Mount new panels or utilize existing ones and provide any necessary conduit for incoming cables from the existing intrusion panels (Splice panel) to new ones. See panels layout drawing G_800.
- B. Provide 120 VAC from a dedicated circuit for the head-end panel if necessary.
- C. Utilize the new in-cab 4 Amp fused receptacle for intrusion power supply.
- D. Replace the existing Intrusion system master with the Bosch B8512G (master controller) and power supply, and provide the right expansion module such as B208 (8 input expansion module), B308 (8 output expansion module), B921C (Keypad), etc; to account for the existing and new devices.
- E. Provide and install CAT6 plenum-rated cable from Bosch B8512G to the nearest RVC network switch for communication.

3. Programming:

- A. The intrusion contractor shall program all points as they were previously and separate them into partitions/zones. Verify with the owner if the existing partitions/zones must be updated or modified.
- B. Test and commission all intrusion points with Schneider Electric.

Owner

The Owner will supply the following items for installation and connection by this Contractor:

1. IP Network connection from a network switch to the new Intrusion system. Document port name and number.
2. RVC to provide an IP port on an existing network switch.

Drawings set

ROCK VALLEY COLLEGE BELL SCHOOL

3350 BELL SHOOD RD.
ROCKFORD, IL 61114

INTRUSION SYSTEM
PROJECT NUMBER: GA24G3142
ISSUED FOR REVIEW:

TABLE OF CONTENTS:

<u>SHEET NO.</u>	<u>REV.</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>SHEET DESCRIPTION</u>
RVC_BELL_B_001	1	ISSUED FOR REVIEW	07/26/24	INTRUSION SYSTEM TITLE SHEET & TABLE OF CONTENTS
RVC_BELL_G_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_BELL_B_LL	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - INTRUSION SYSTEM - LOWER LEVEL
RVC_BELL_B_700_DEMO	1	ISSUED FOR REVIEW	07/26/24	INTRUSION SYSTEMS PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - DEMO
RVC_BELL_B_700	1	ISSUED FOR REVIEW	07/26/24	INTRUSION SYSTEM PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - NEW WORK



1111 PASQUINELLI RD / WESTMONT, IL 60559
PHONE: 708.271.4700

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 25, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:

RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:

INTRUSION SYSTEM TITLE SHEET &
TABLE OF CONTENTS

PROJECT NUMBER:

GA24G3142

SHEET NUMBER:

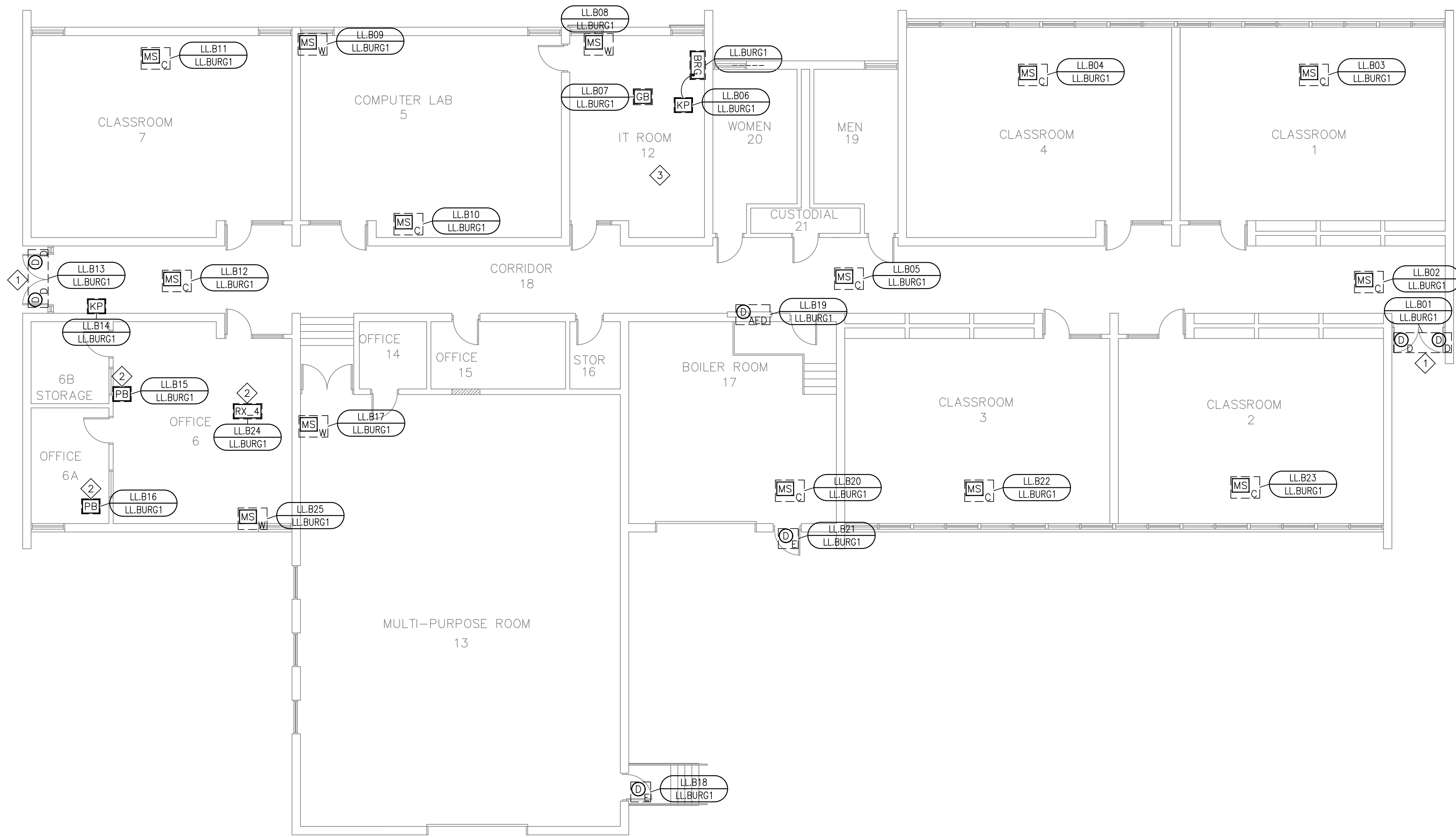
RVC_BELL_B_001

GENERAL NOTES:

UPGRADE EXISTING INTRUSION HEAD-END SYSTEM.
INTRUSION CONTRACTOR TO REPLACE EXISTING SENSORS AND RESISTORS IF NEEDED. VERIFY FIELD RESISTOR TO BE 1K OHM.

KEY NOTES:

- ① INTRUSION CONTRACTOR TO REPLACE EXISTING DOOR CONTACT WITH THE D.P.D.T DOOR CONTACTS FOR MAIN ENTRANCE AND REAR DOUBLE DOOR.
- ② INTRUSION CONTRACTOR TO PROVIDE A NEW EN4204R RECEIVER FOR THE TWO NEW EN1235F WIRELESS PANIC BUTTONS. EACH BUTTON SHALL BE PROGRAMMED AS AN INDIVIDUAL POINT FROM THE RECEIVER, ALSO PROGRAMMED FAULT AND TAMPER OUTPUTS FROM THE RECEIVER. VERIFY THE EXACT PANIC BUTTON LOCATION WITH THE CUSTOMER.
- ③ EXISTING RVC NETWORK SWITCH.



SITE NAME & ADDRESS
ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD			
REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 16, 2024
SCALE: 1/8" = 1'-0"
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

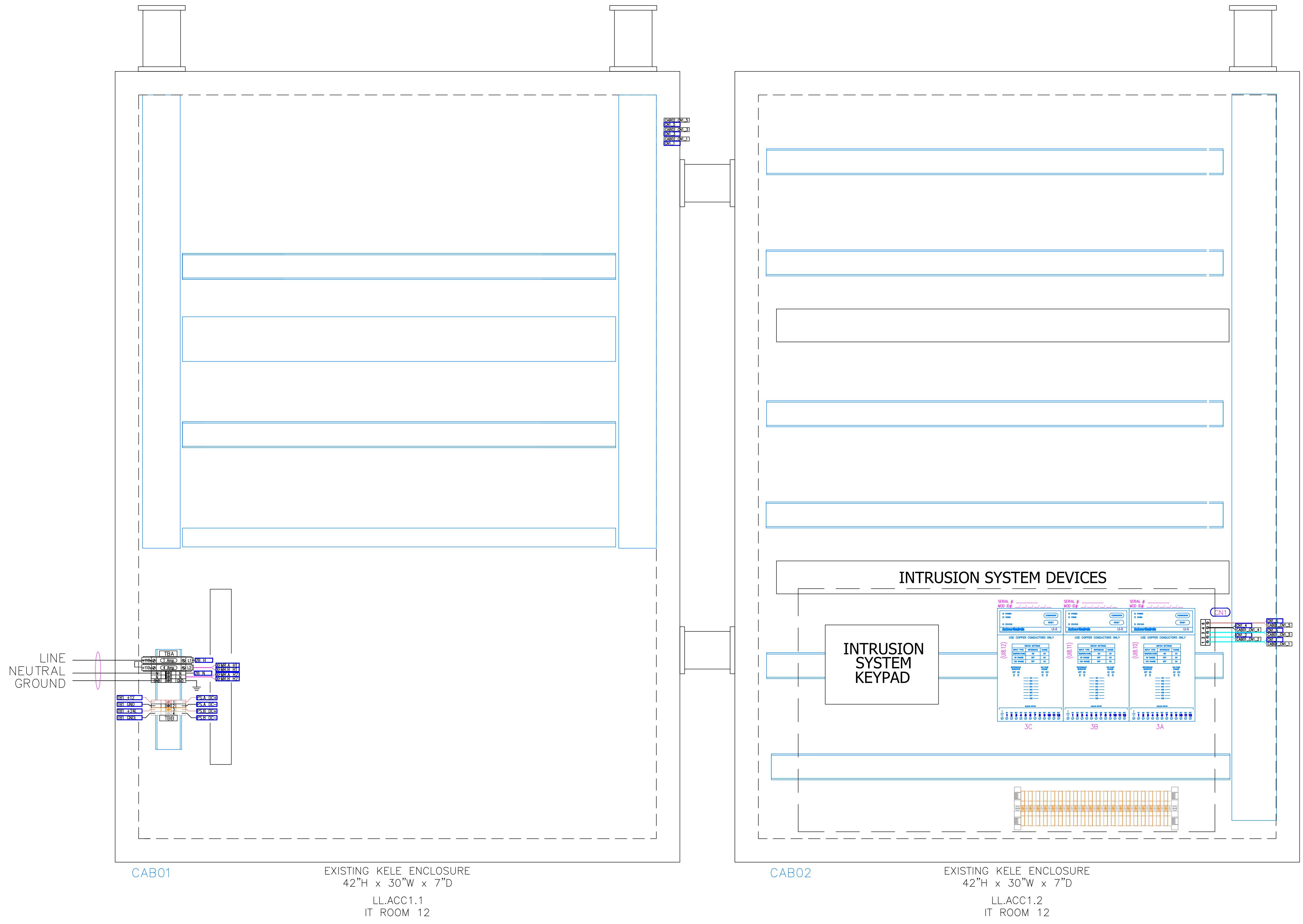
PROJECT NAME:
RVC - BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:
DEVICE LOCATIONS -
INTRUSION SYSTEM
LOWER LEVEL

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_B_LL

LOWER LEVEL - INTRUSION SYSTEM
DEVICE LOCATION PLAN
① SCALE: AS NOTED



SITE NAME & ADDRESS
**ROCK VALLEY COLLEGE
 BELL SCHOOL
 3350 BELL SCHOOL RD.
 ROCKFORD, IL 61114**

DATE: JULY 24, 2024
 SCALE: NONE
 DRAWN: A. BOLANOS
 CHECKED: A. BOLANOS
 APPROVED: A. GAGE

PROJECT NAME:
**RVC – BELL SCHOOL
 WIRELESS LOCKS, ACCESS CONTROL
 & INTRUSION SYSTEM**

SHEET TITLE:
**ACCESS CONTROL & INTRUSION
 PANEL BUILD
 DETAILS – LL.ACC1.1 (CAB 1) &
 LL.ACC1.2 (CAB 2) – DEMO**

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_B_700_DEMO

INTRUSION SYSTEM
GENERAL NOTES:

THE CUSTOMER IS TO PROVIDE A NEW ETHERNET NETWORK CONNECTIONS FOR THE INTRUSION SYSTEM.
REMOVE EXISTING INTRUSION SYSTEM CONTROLLERS AND REPLACE THEM WITH BOSCH G-SERIES CONTROLLERS.

KEY NOTES:

- ① ELECTRICAL TO PROVIDE 4AMP FUSE RECEPTACLE FOR CAB02 (LL.ACC1.2) TO POWER THE INTRUSION CONTROLLERS. UTILIZED EXISTING 120VAC IN CAB01 (LL.ACC1.1).
- ② PROVIDE 12V Ah BATTERY BACK-UP BATTERIES FOR THE NEW INTRUSION PANEL.

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE
BELL SCHOOL
3350 BELL SCHOOL RD.
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 24, 2024
SCALE: NONE
DRAWN: A. BOLANOS
CHECKED: A. BOLANOS
APPROVED: A. GAGE

PROJECT NAME:

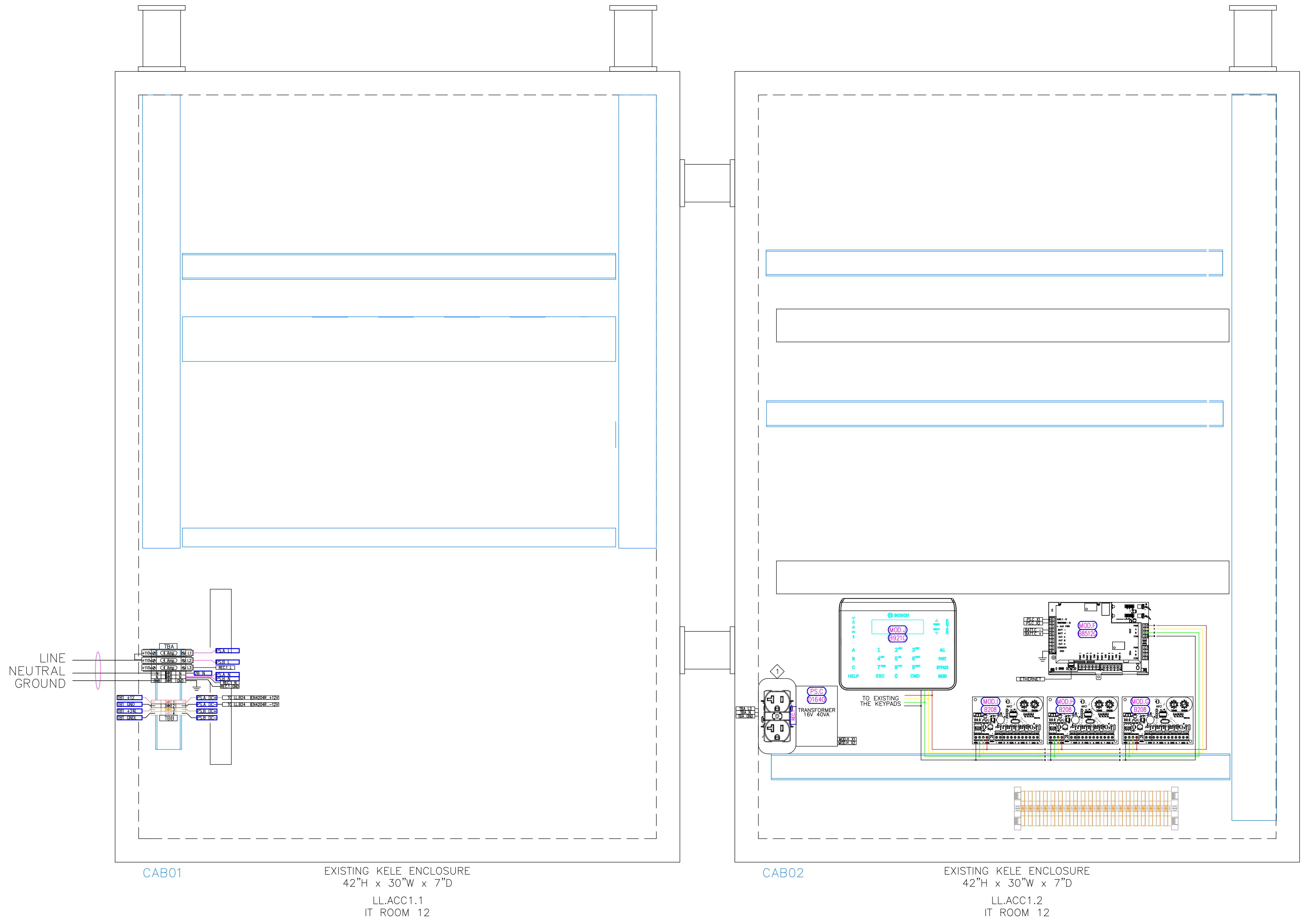
RVC – BELL SCHOOL
WIRELESS LOCKS, ACCESS CONTROL
& INTRUSION SYSTEM

SHEET TITLE:

INTRUSION SYSTEM
PANEL BUILD
DETAILS – LL.ACC1.1 (CAB1) &
LL.ACC1.2 (CAB 2) – NEW WORK

PROJECT NUMBER:
GA24G3142

SHEET NUMBER:
RVC_BELL_B_700



CAB01
EXISTING KELE ENCLOSURE
42"H x 30"W x 7"D
LL.ACC1.1
IT ROOM 12

CAB02
EXISTING KELE ENCLOSURE
42"H x 30"W x 7"D
LL.ACC1.2
IT ROOM 12

BATTERY
[01-21006-423]
4" H x 6" W

Points List

Notes: The information below, such as point count, keypads, and partition/zones, was taken from the existing workstation list. Verify point count and keypads during installation.

Points List						
#	Floor plan location	Name	Point Type	Partition/Zone	Device Type	Notes
1	LL.B13	Main Entry	Standard Delay	1	Door Contact	
2	LL.B11	P-01 Class 7 Motion	Interior	1	Ceiling Motion	
3	LL.B12	P-02 Main Entry Motion	Interior	1	Ceiling Motion	
4	LL.B18	P-04 Office 6 Motion	Interior	1	Ceiling Motion	
5	LL.B09	P-07A Computer Lab 5 Motion	Interior	1	Ceiling Motion	
6	LL.B10	P-07B Computer Lab Motion	Interior	1	Ceiling Motion	
7	LL.B17	P-09 Multi-Purpose Rm 13 Motion	Interior	1	Ceiling Motion	
8	LL.B18	A-13 Multi-Purpose DC	Instant	1	Door Contact	
9	LL.B08	P-10 ITOC 9 Motion	Interior	1	Ceiling Motion	
10	LL.B07	P-11 ITOC Glassbreak	Instant	1	Glassbreak	
11	LL.B19	P-12 AED		1	Door Contact	
12	LL.B20	P-13 Boiler Room Motion	Interior	1	Ceiling Motion	
13	LL.B21	A-17 Boiler Room Door	Instant	1	Ceiling Motion	
14	LL.B05	P-14 RR Hall Motion	Interior	1	Ceiling Motion	
15	LL.B22	P-15 Classroom 3 Motion	Interior	1	Ceiling Motion	
16	LL.B04	P-16 Classroom 4 Motion	Interior	1	Ceiling Motion	
17	LL.B23	P-17 Classroom 2 Motion	Interior	1	Ceiling Motion	
18	LL.B03	P-18 Classroom 1 Motion	Interior	1	Ceiling Motion	
19	LL.B02	P-19 Back Hall Exit Motion	Interior	1	Ceiling Motion	
20	LL.B01	B1-20B Back Door	Standard Delay	1	Door Contact	
21	LL.B15	Office 6		1	Panic Button	New device added per Intrusion upgrade
22	LL.B16	Office 6A		1	Panic Button	New device added per Intrusion upgrade
23	LL.B25	Office 6 - Motion		1	Ceiling Motion	
24	LL.B24	Wireless Receiver tamper		1	Tamper	New device added per Intrusion upgrade

Keypads					
#	Floor plan location	Name	Point Type	Partition/Zone	Notes
1	LL.B14	Main Entry	Pad	1	
2	LL.B06	Head-end panel	Pad	1	New device added per Intrusion upgrade

Partitions / Zone	
#	Name
1	TBD by customer

Note: Verify proper point naming and location before assigning the proper partition during Intrusion configuration.