

# SSB - 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

SSB - Access Control Package .....	1
Specifications .....	3
Specifications.pdf .....	4
Drawings set.....	9
Drawing set.pdf .....	10

# 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.
- C.

### 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 drawing 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.

# 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), and wiring details (W\_400).

### 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 will provide 18AWG/4C for the new keypad (01.B30) and 18AWG/2C for the new door contact (01.B44) in the HR area. The intrusion contractor will provide the keypad and door contacts.
- B. The keypad will be mounted on a cinder block wall. The electrical contractor will provide the wire mold and back box.

**1. Head-End:**

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

## Intrusion system

### 1. Field Devices:

- A. Demo and replace existing Intrusion field devices with new Bosch intrusion devices.
- B. Replace any intrusion-supervised EOL resistors and install them by the field device if installed at the head-end.
- C. Provide EN4204R and four EN1235F for the new wireless panic buttons in the office area. See drawing B\_210B
- D. Provide a new D.P.D.T door contact and a ceiling mount motion sensor for the human resources area. See drawing B\_210B.

### 2. Head-End:

- A. Utilize the new in-cab 4 Amp fused receptacle for intrusion power supply.
- B. 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.
- C. Utilize the new in-cab 4 Amp fused receptacle for intrusion power supply.
- D. Provide and install CAT6 plenum-rated cable from Bosch B8512G to the nearest RVC network switch for communication.
- E.

### 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.

## **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 SUPPORT SERVICES BUILDING

3301 N. MULFORD  
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_SSB_A_001	1	ISSUED FOR REVIEW	07/26/24	TITLE SHEET & TABLE OF CONTENTS
RVC_SSB_G_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_SSB_W_200A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - BASEMENT - AREA A
RVC_SSB_W_200B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - BASEMENT - AREA B
RVC_SSB_A_210A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - ACCESS CONTROL - FIRST FLOOR - AREA A
RVC_SSB_A_210B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - ACCESS CONTROL - FIRST FLOOR - AREA B
RVC_SSB_W_210A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - FIRST FLOOR - AREA A
RVC_SSB_W_210B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - FIRST FLOOR - AREA B
RVC_SSB_W_220A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - SECOND FLOOR - AREA A
RVC_SSB_W_220B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - SECOND FLOOR - AREA B
RVC_SSB_G_400	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL & WIRELESS LOCK SYSTEM TERMINATION DETAILS - 1
RVC_SSB_G_700_DEMO	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - DEMO
RVC_SSB_G_701_DEMO	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.PWR01.1, 2 & 3 - DEMO
RVC_SSB_A_700	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - NEW WORK
RVC_SSB_A_701	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.PWR1.1, 2 & 3 - NEW WORK
RVC_SSB_W_700	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.WRLS1.1



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### SITE NAME & ADDRESS

ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
TITLE SHEET &  
TABLE OF CONTENTS




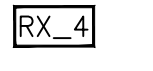




PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_A\_001

**ACCESS CONTROL SYSTEM DEVICE LEGEND:**

-  NDE SCHLAGE WIRELESS LOCK W/ BUILT-IN REQUEST TO EXIT, DOOR STATUS LOCK STATUS
-  GWE GATEWAY
-  SECURITY SYSTEM CABINET
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  REQUEST-TO-EXIT MOTION SENSOR
-  CARD READER, PROXIMITY, WALL-MOUNT
-  ELECTRIC LOCKING HARDWARE
-  ELECTRIC LOCKING HARDWARE W/ BUILT-IN REX SWITCH
-  EXISTING AD-400 WIRELESS LOCKS
-  EXISTING WIRELESS PIM RECEIVER

**INTRUSION SYSTEM DEVICE LEGEND:**

-  INTRUSION KEY PAD
-  CEILING-MOUNTED MOTION SENSOR
-  PANIC BUTTON/DURESS BUTTON
-  INOVONICS EN4240R RECEIVER W/ FOUR RELAYS
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  AED CABINET DOOR CONTACT
-  RECESSED MAGNETIC DOOR CONTACT IN DOOR FRAME/HEADER

**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.


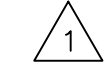
NOTE 1: TABLE DEVELOPED FOR STEEL OR ALUMINUM ALLOY CONDUIT ONLY.

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



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ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

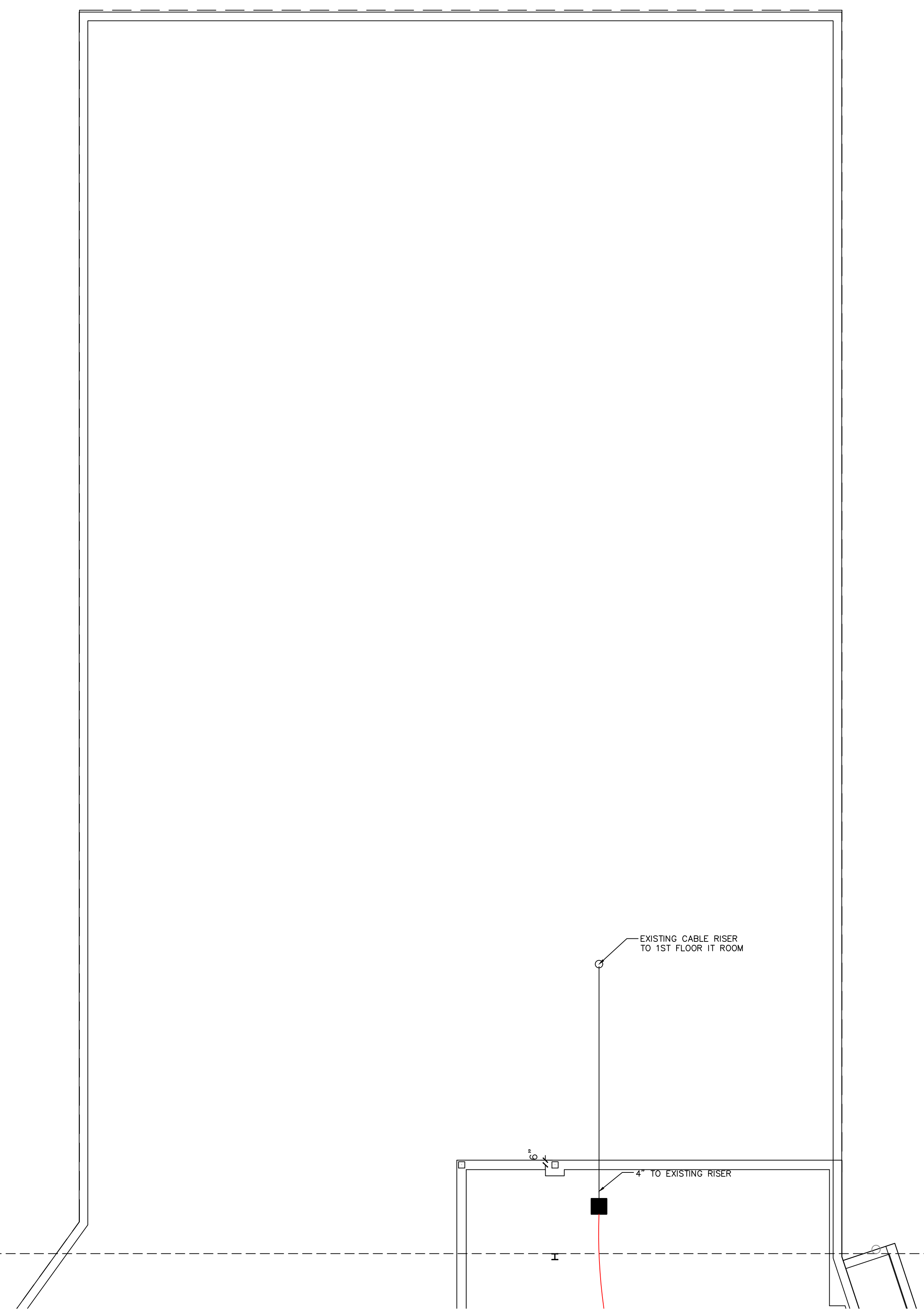
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SCALE: NONE  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
SYMBOL LEGEND &  
GENERAL NOTES

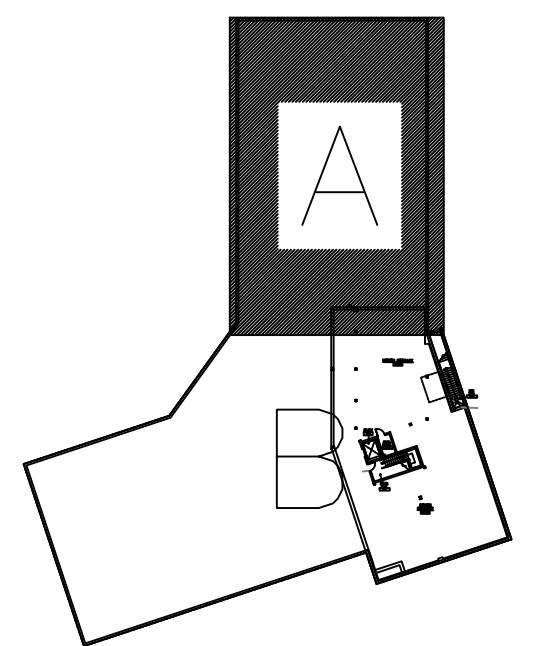
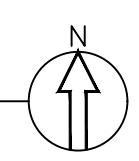
PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_G\_100



SEE G\_200B

BASEMENT – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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: F. MACIEL

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
DEVICE LOCATIONS  
WIRELESS LOCKS  
BASEMENT – AREA A

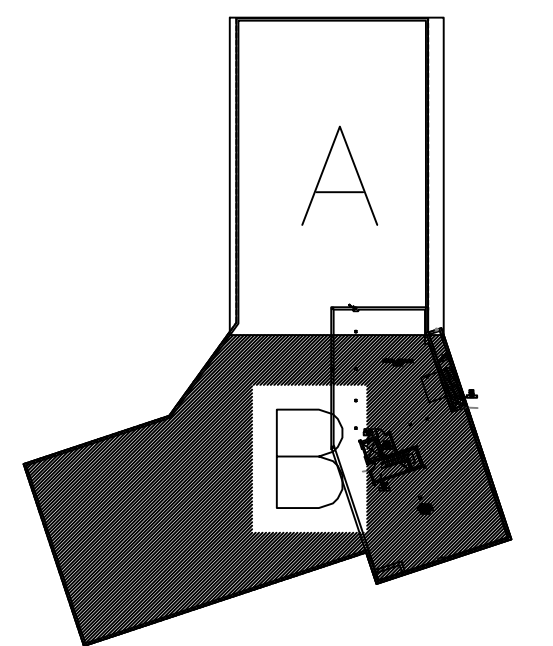
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GA24G3142

SHEET NUMBER:  
RVC\_SSB\_W\_200A

**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**

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REV	DESCRIPTION	BY	DATE
1			

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

**PROJECT NAME:**

RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**

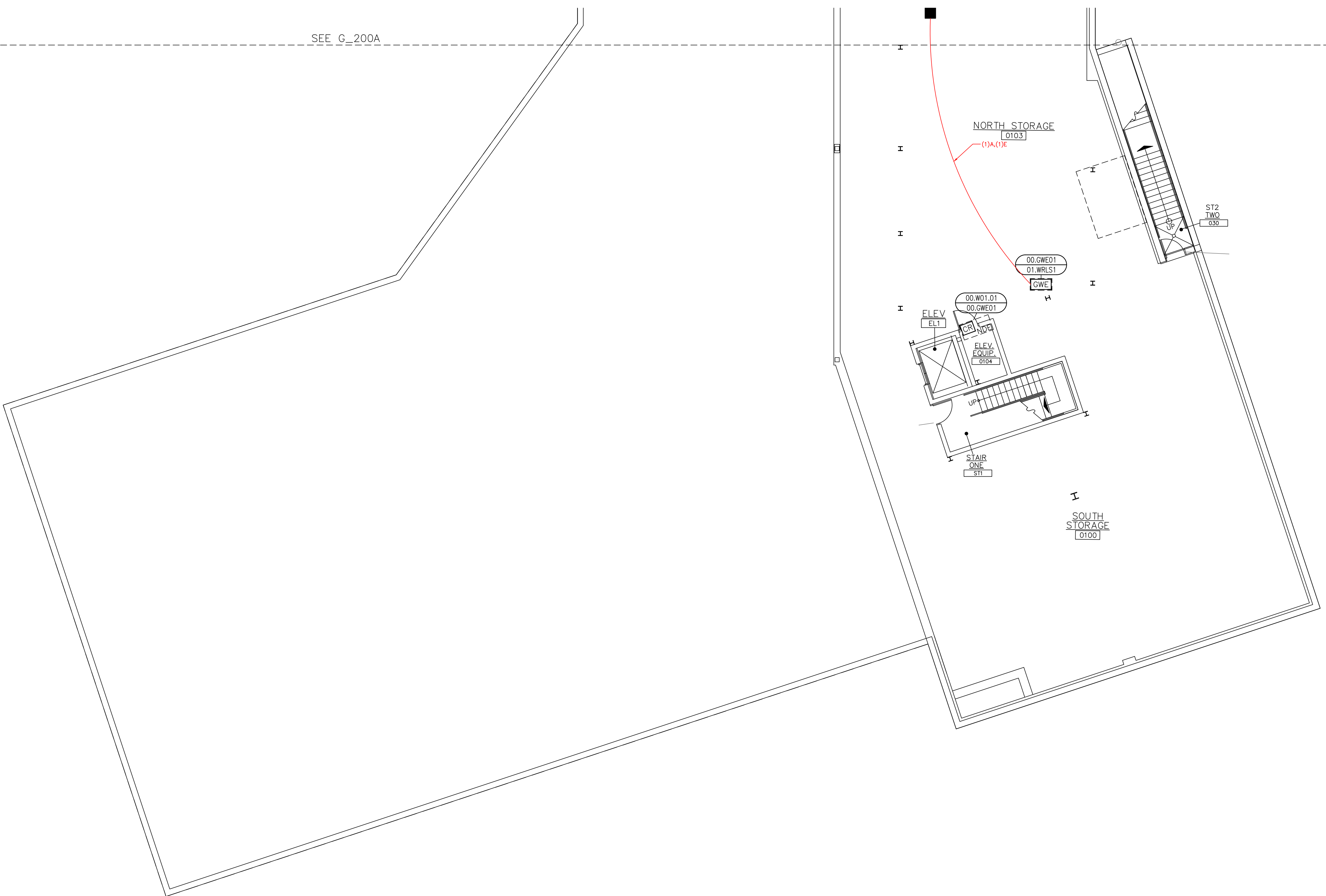
DEVICE LOCATIONS –  
WIRELESS LOCKS  
BASEMENT – AREA B

**PROJECT NUMBER:**

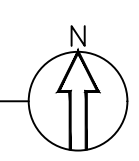
GA24G3142

**SHEET NUMBER:**

RVC\_SSB\_W\_200B



BASEMENT – WIRELESS LOCKS – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



**GENERAL NOTES:**

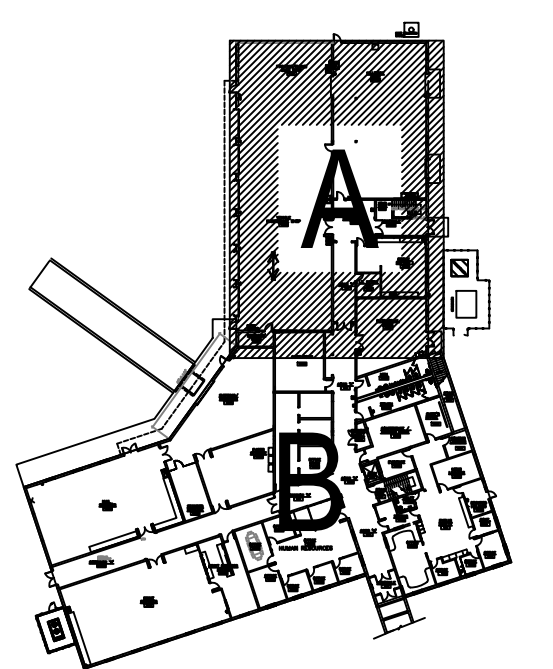
REMOVE EXISTING ANDOVER ACCESS CONTROL CONTROLLERS AND REPLACE THEM WITH GENETEC CONTROLLERS.

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.

**KEY NOTES:**

◊ EXISTING MECHANICAL ROOM 1310 DOOR CONTACTS TO BE WIRED INTO NEW ACCESS CONTROL SYSTEM FROM THE EXISTING INTRUSION SYSTEM. UTILIZED EXISTING CABLE.



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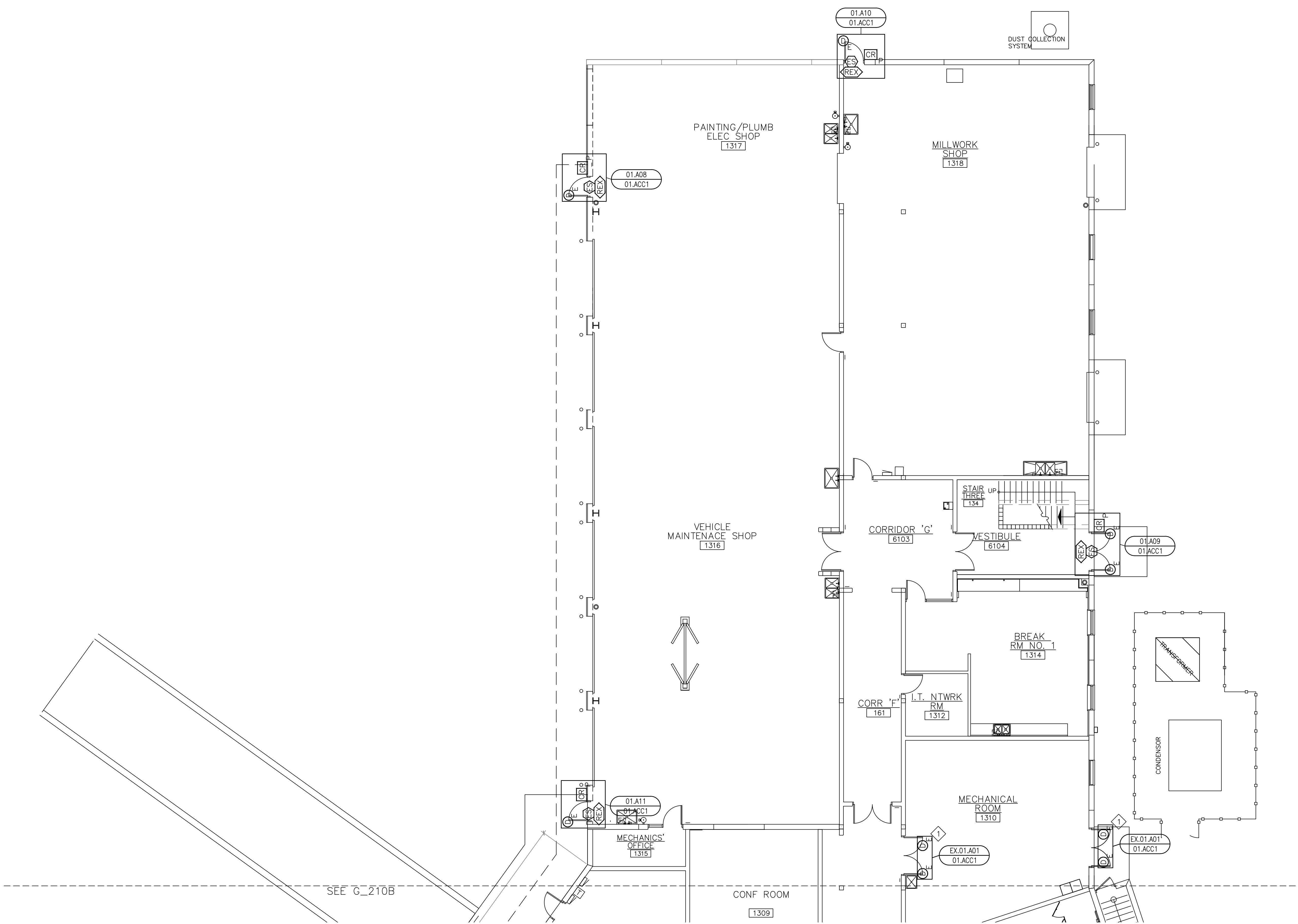
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

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RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

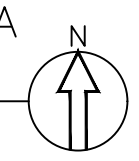
**SHEET TITLE:**  
DEVICE LOCATIONS  
ACCESS CONTROL  
FIRST FLOOR – AREA A

**PROJECT NUMBER:**  
GA24G3142

**SHEET NUMBER:**  
RVC\_SSB\_A\_210A



**1** FIRST FLOOR – ACCESS CONTROL – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

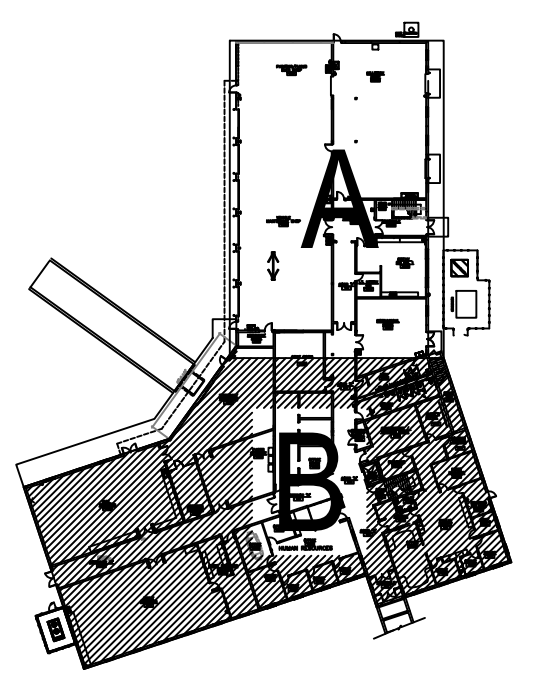


**GENERAL NOTES:**

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



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REVISION RECORD

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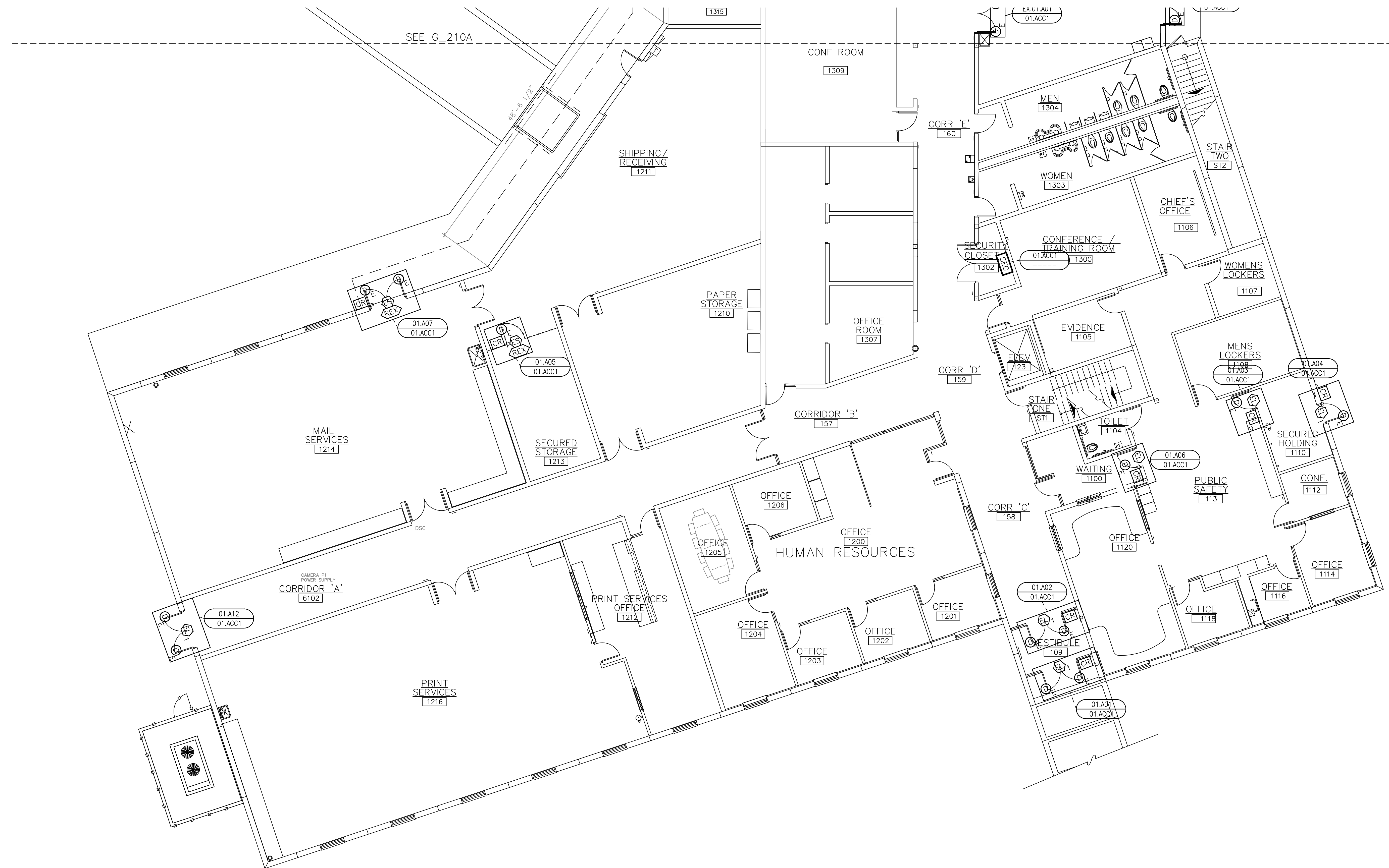
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

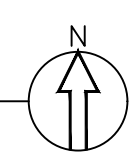
SHEET TITLE:  
DEVICE LOCATIONS –  
ACCESS CONTROL  
FIRST FLOOR – AREA B

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_A\_210B



FIRST FLOOR – ACCESS CONTROL – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



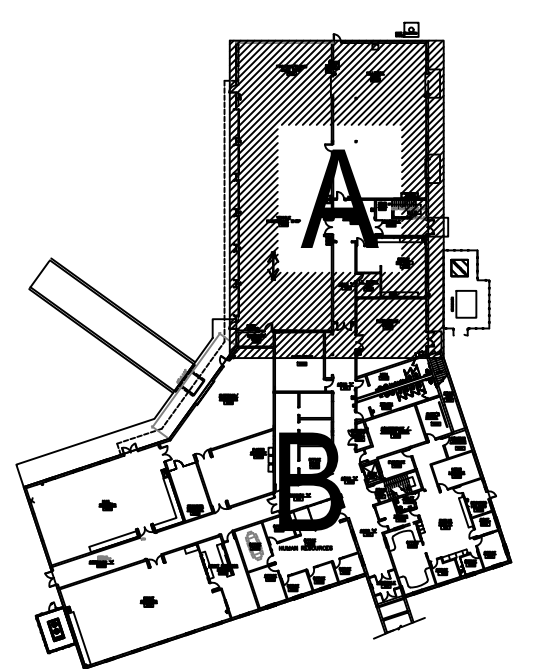
**SCOPE OF WORK:**

**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.

**KEY NOTES:**

- 1 REPLACE EXISTING AD400 BROKEN LOCK WITH A NEW NDE LOCK.



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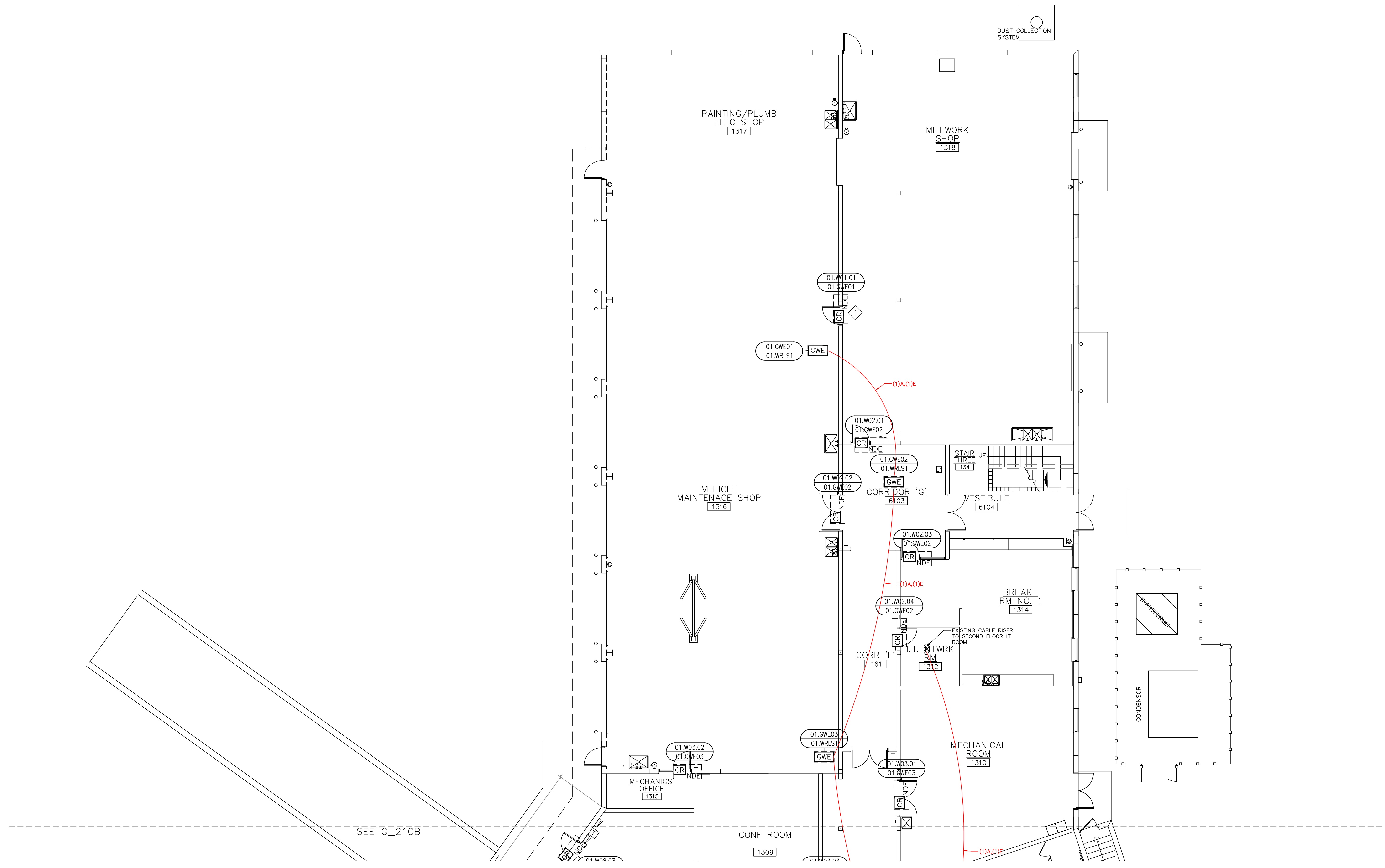
REV	DESCRIPTION	BY	DATE
1			

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

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS  
WIRELESS LOCKS  
FIRST FLOOR – AREA A

**PROJECT NUMBER:**  
GA24G3142  
**SHEET NUMBER:**  
RVC\_SSB\_W\_210A



SEE G\_210B

1 FIRST FLOOR – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



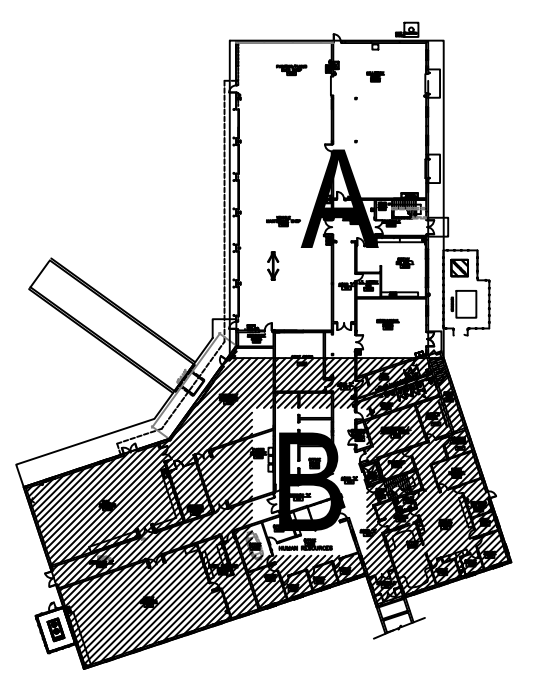
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ACCESS CONTROL CONTRACTOR:  
TRIM AND TERMINATE COMMUNICATION AND POWER CABLES AT THE HEAD-END PANEL, PROGRAM AND CONFIGURE THE GATEWAYS.

**KEY NOTES:**

- 1 EXISTING KEYPAD AT HR AREA TO BE MOUNTED ON GINDER BLOCK WALL. ELECTRICAL TO PROVIDE BACK BOX AND WIRE MOLD. VERIFY EXACT LOCATION WITH OWNER AND INTRUSION CONTRACTOR.



SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

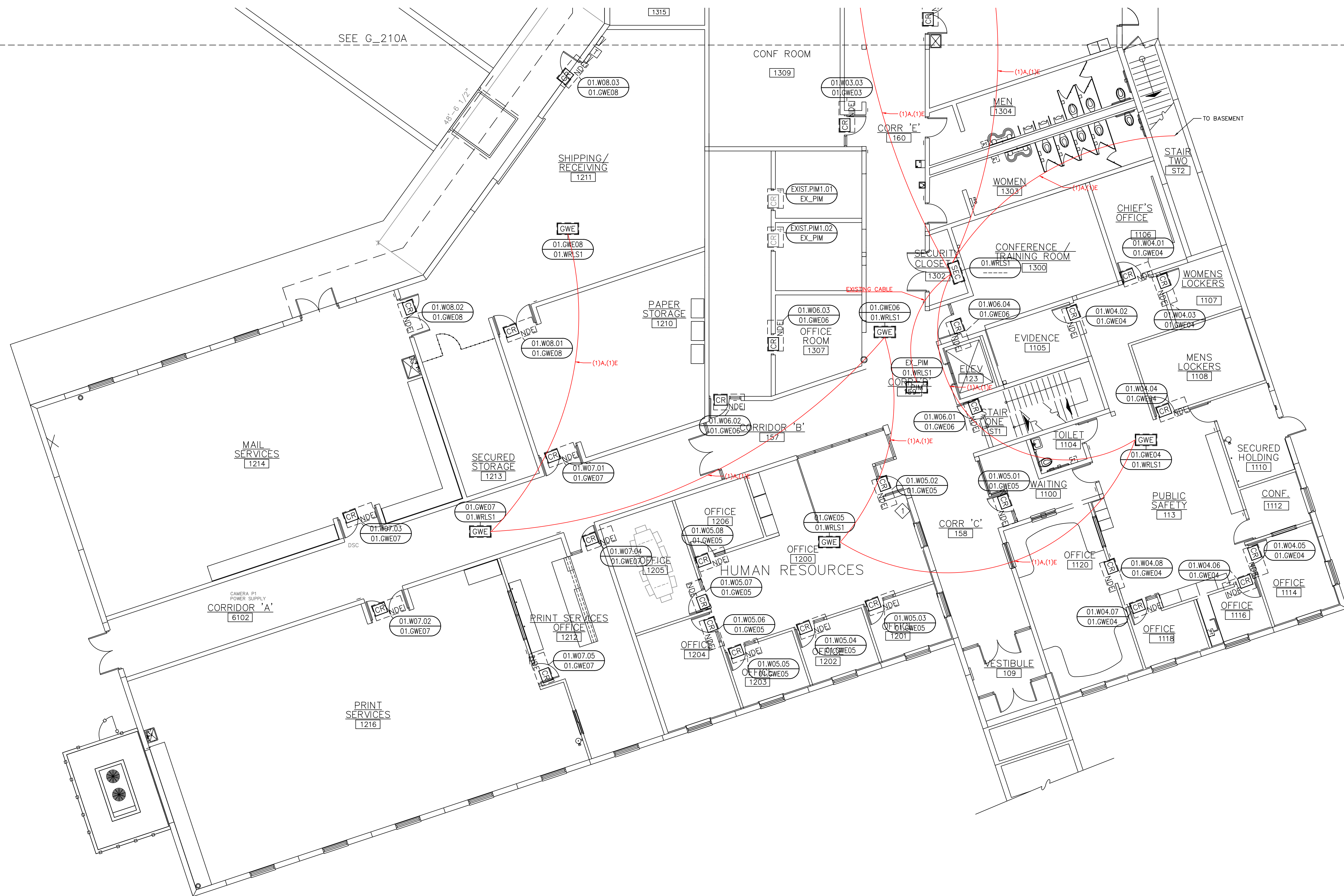
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

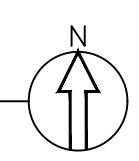
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DEVICE LOCATIONS –  
WIRELESS LOCKS  
FIRST FLOOR – AREA B

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_W\_210B



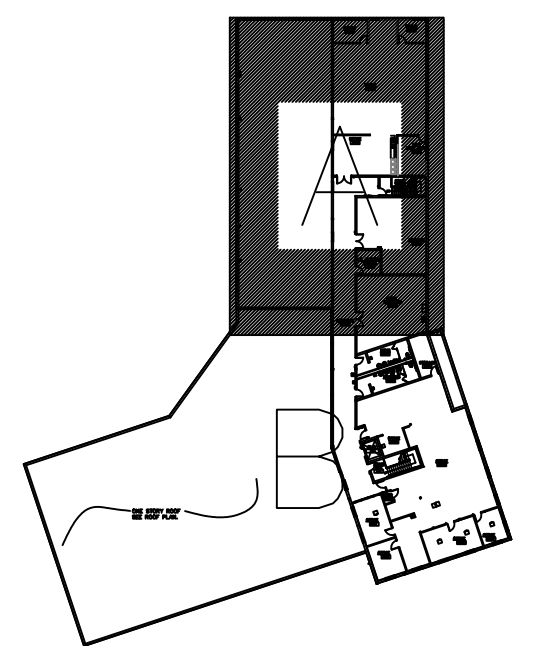
FIRST FLOOR – WIRELESS LOCKS – AREA B  
1 DEVICE LOCATION PLAN  
SCALE: AS NOTED



**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**  
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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

**REVISION RECORD**

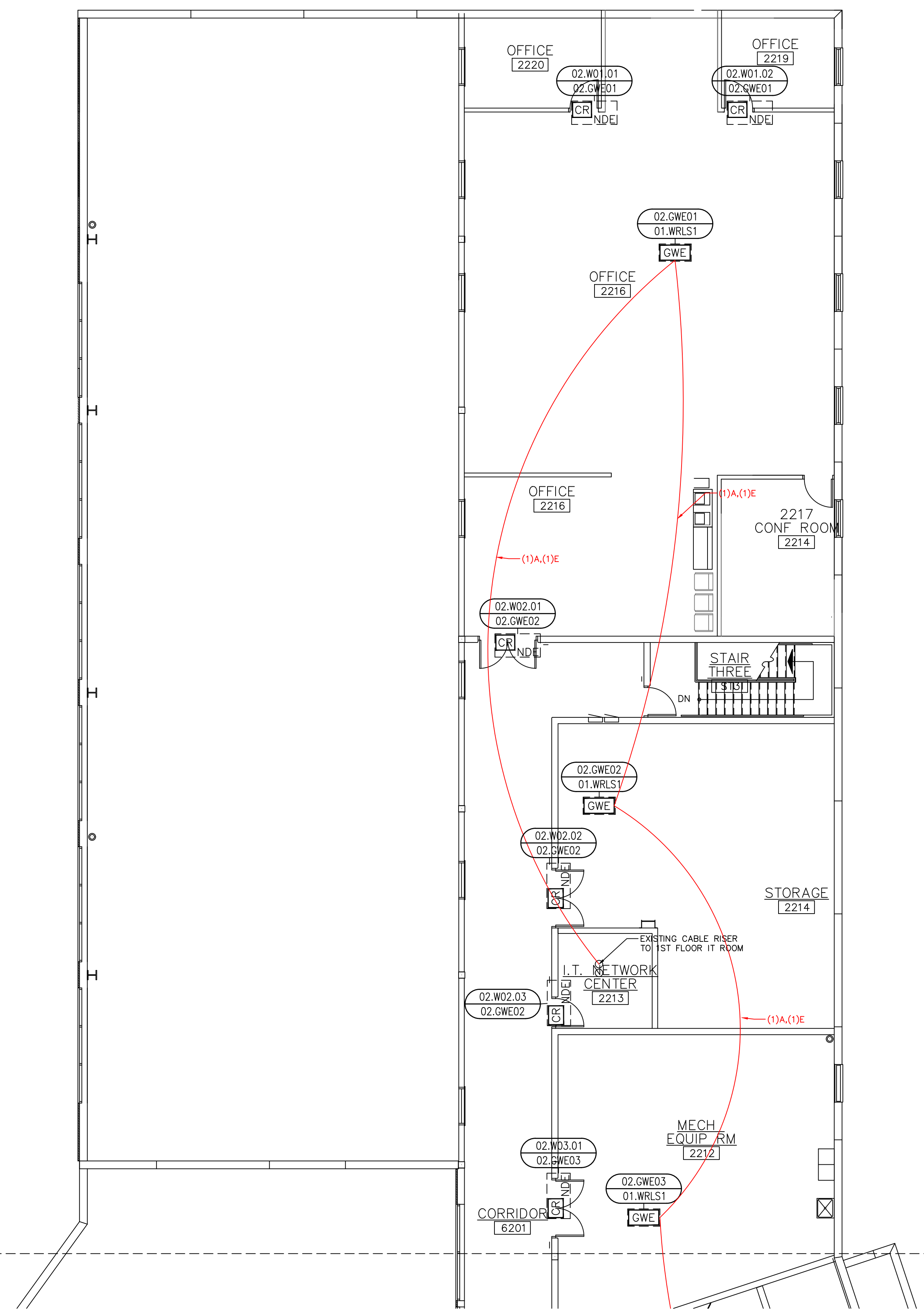
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DATE: JULY 16, 2024  
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS  
WIRELESS LOCKS  
SECOND FLOOR – AREA A

**PROJECT NUMBER:**  
GA24G3142  
**SHEET NUMBER:**  
RVC\_SSB\_W\_220A



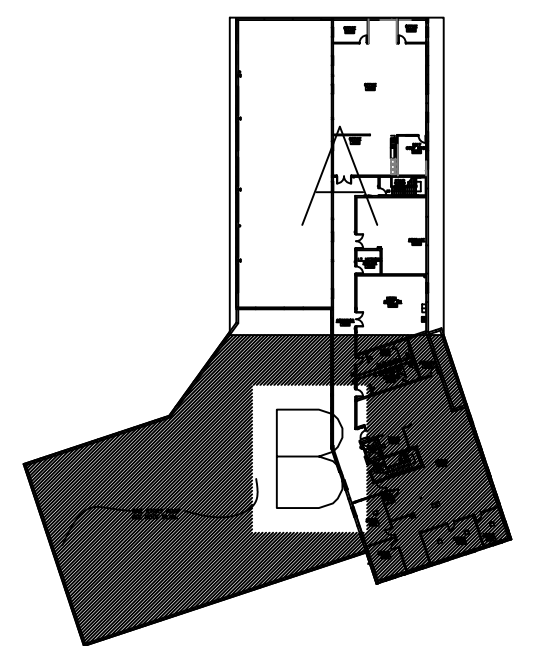
SEE G\_220B

1 SECOND FLOOR – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

**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  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

**REVISION RECORD**

REV	DESCRIPTION	BY	DATE
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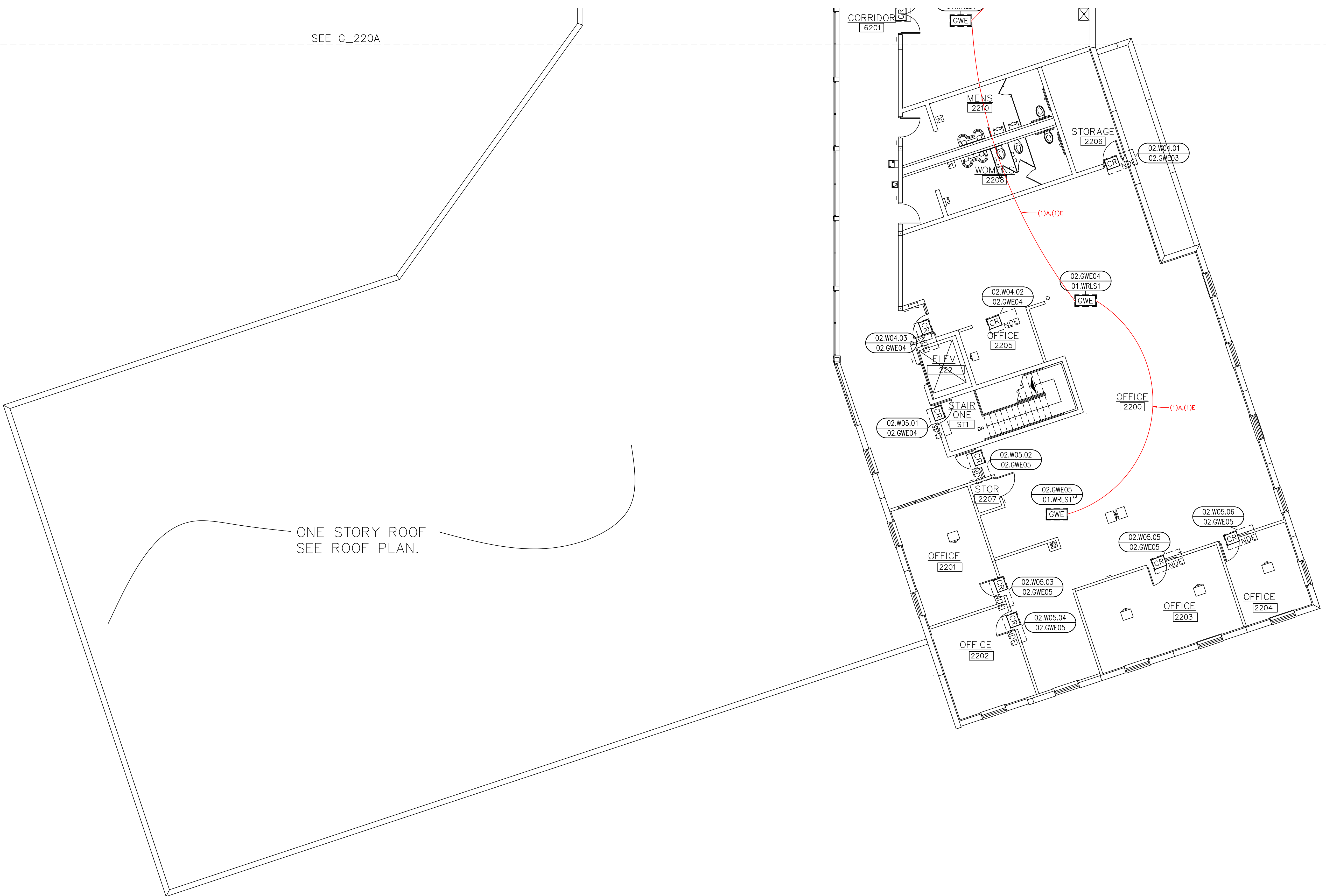
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS –  
WIRELESS LOCKS  
SECOND FLOOR – AREA B

**PROJECT NUMBER:**  
GA24G3142

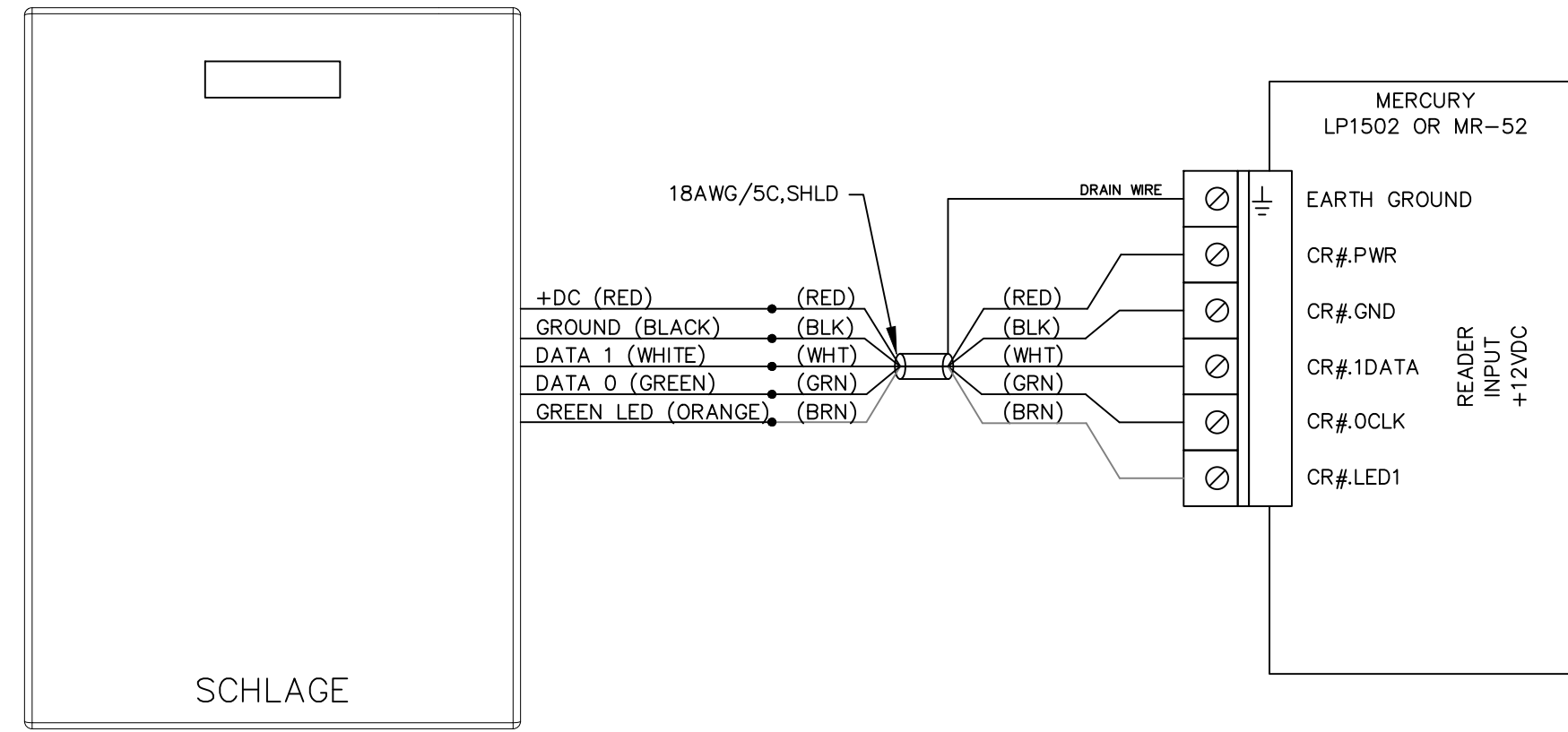
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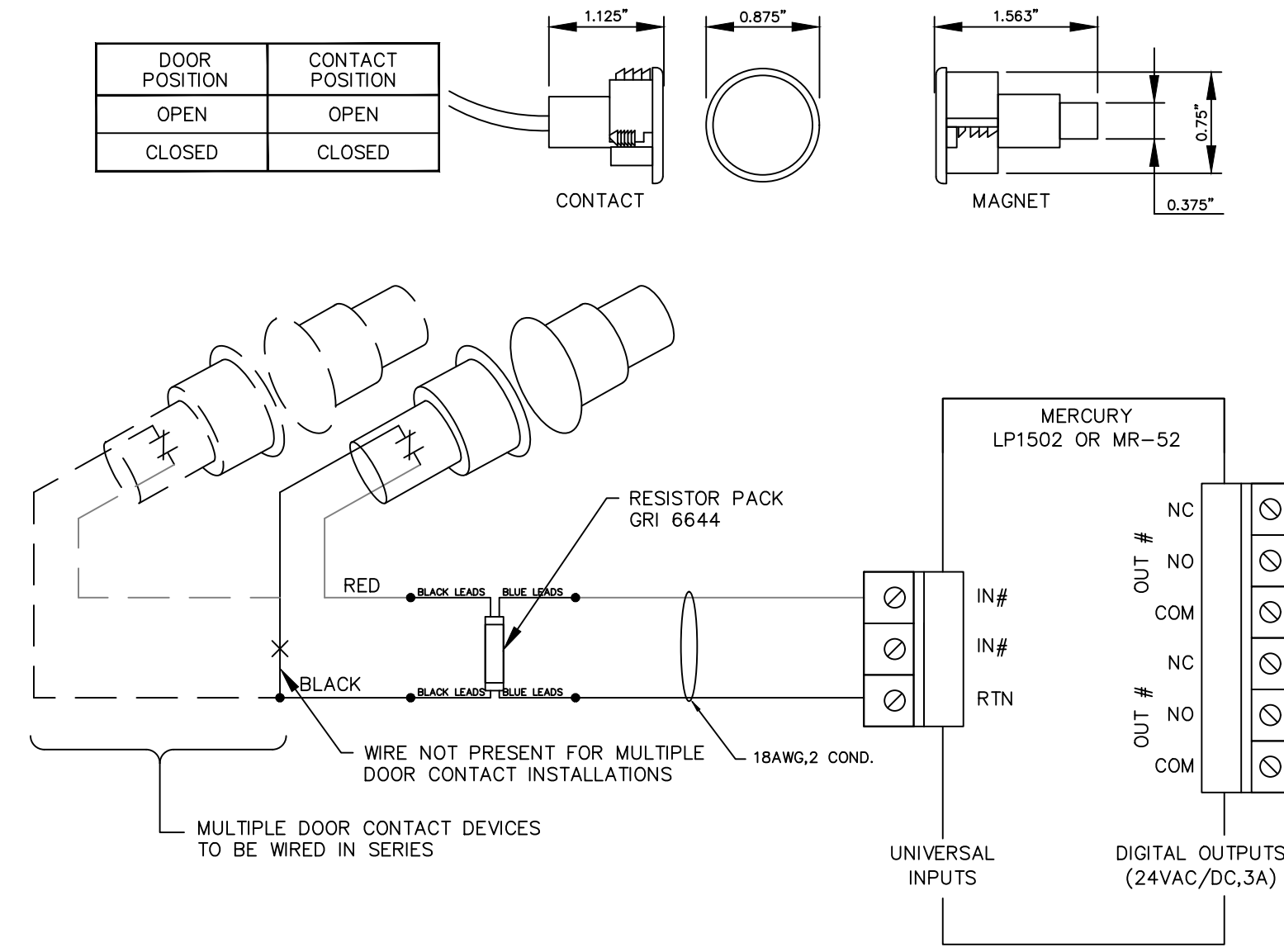
SEE G\_220A

ONE STORY ROOF  
SEE ROOF PLAN.

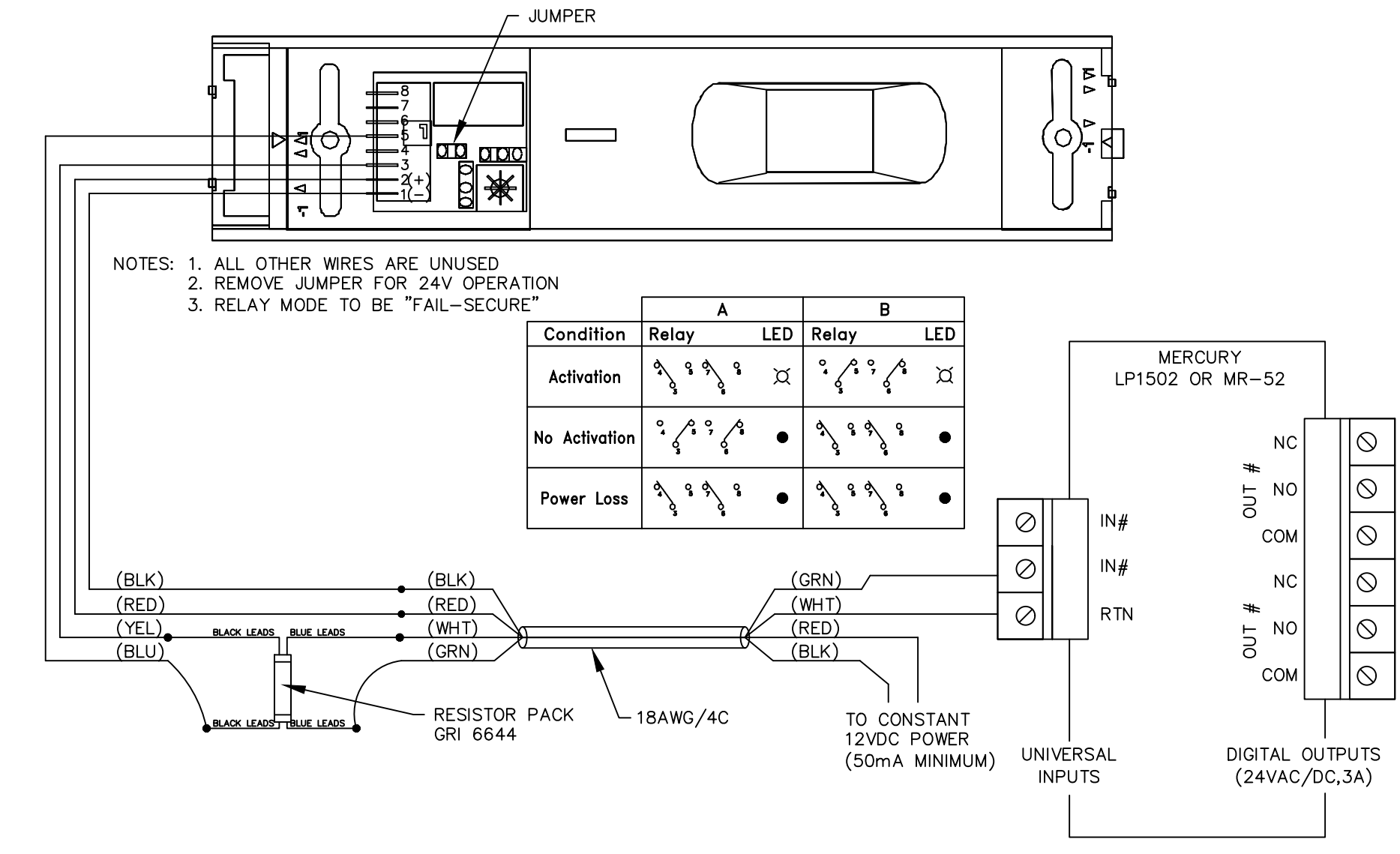
SECOND FLOOR – WIRELESS LOCKS – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



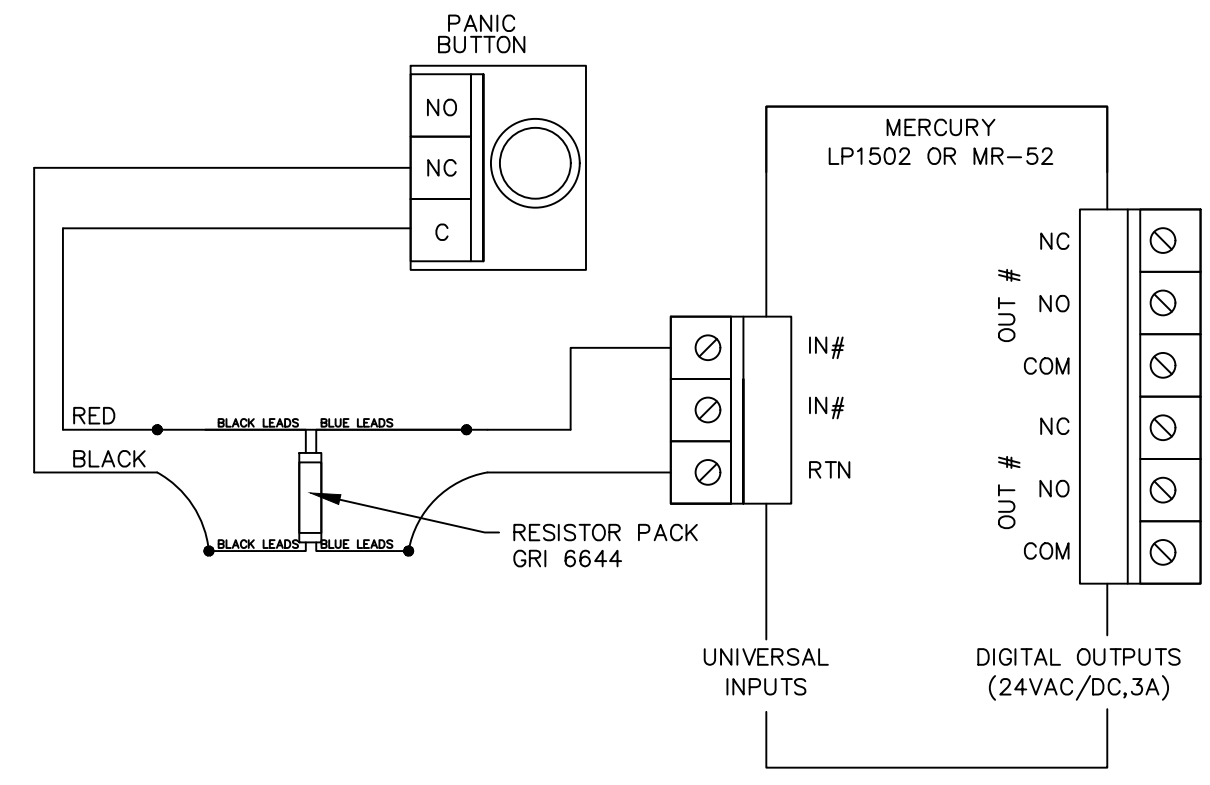
**A** TYPICAL SCHLAGE CARD READER WIRING DETAIL



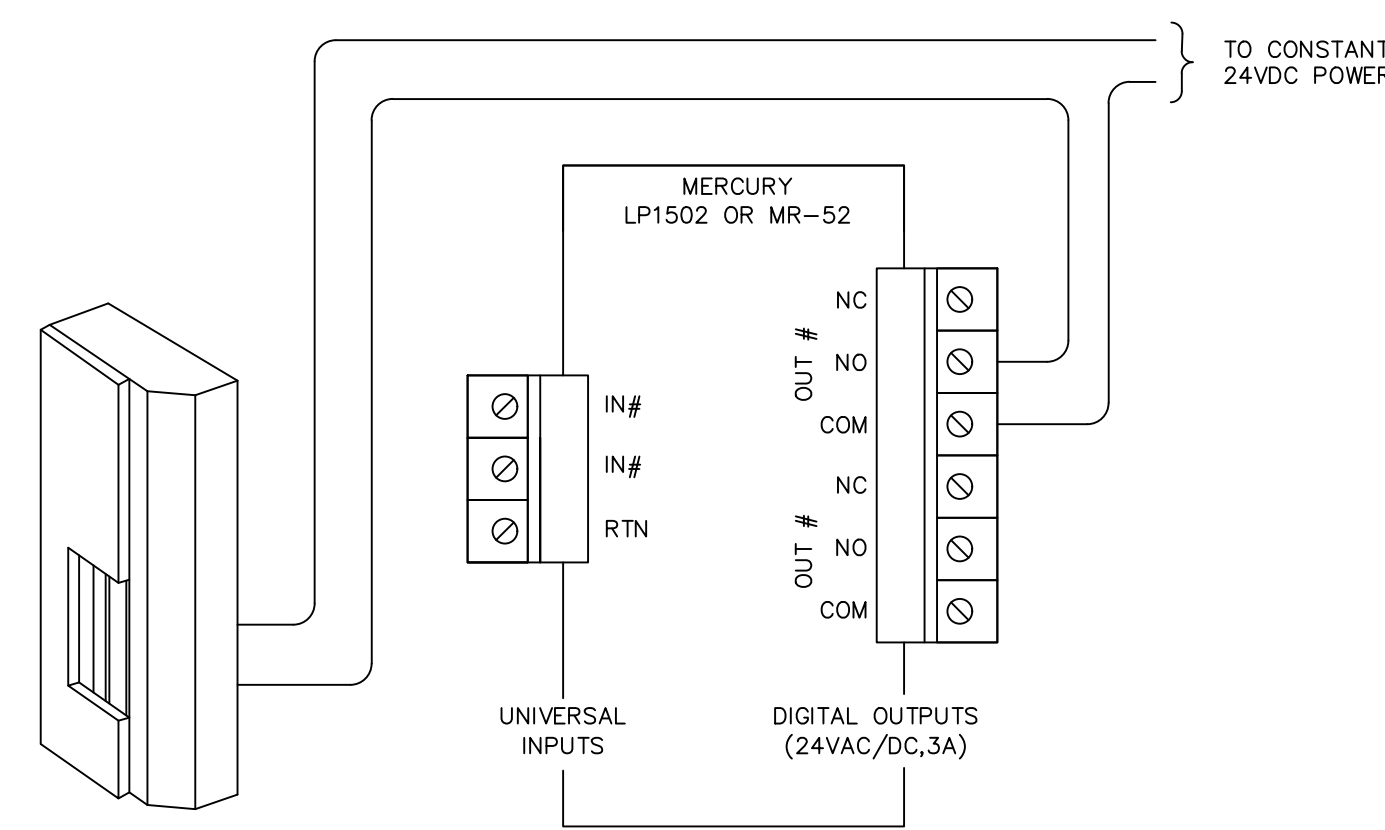
**B** DEVICE TERMINATION - RECESSED MULTIPLE DOOR MAGNETIC DOOR CONTACT  
NOT TO SCALE



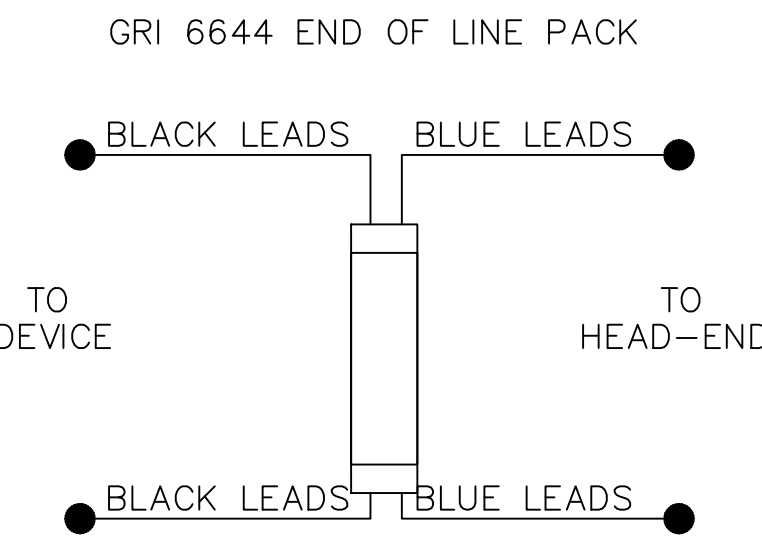
**C** TYPICAL REQUEST TO EXIT MOTION SENSOR WIRING DETAIL  
NOT TO SCALE



**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  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

REVISION RECORD			
REV	DESCRIPTION	BY	DATE
1			

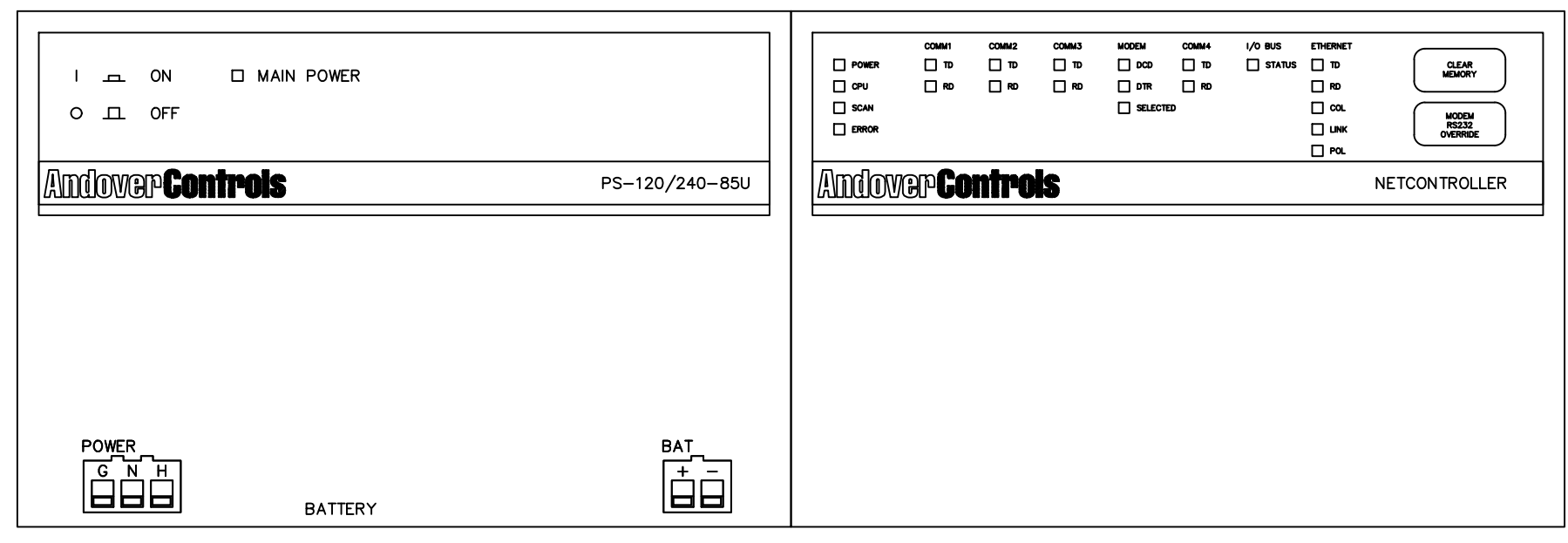
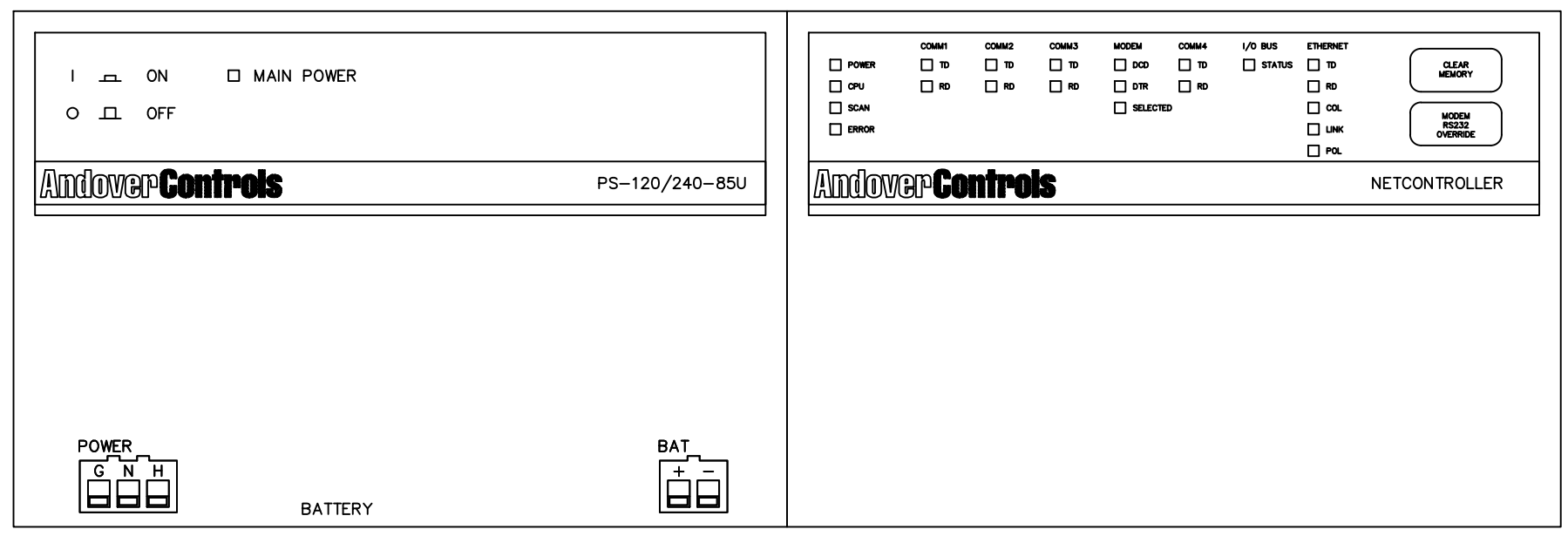
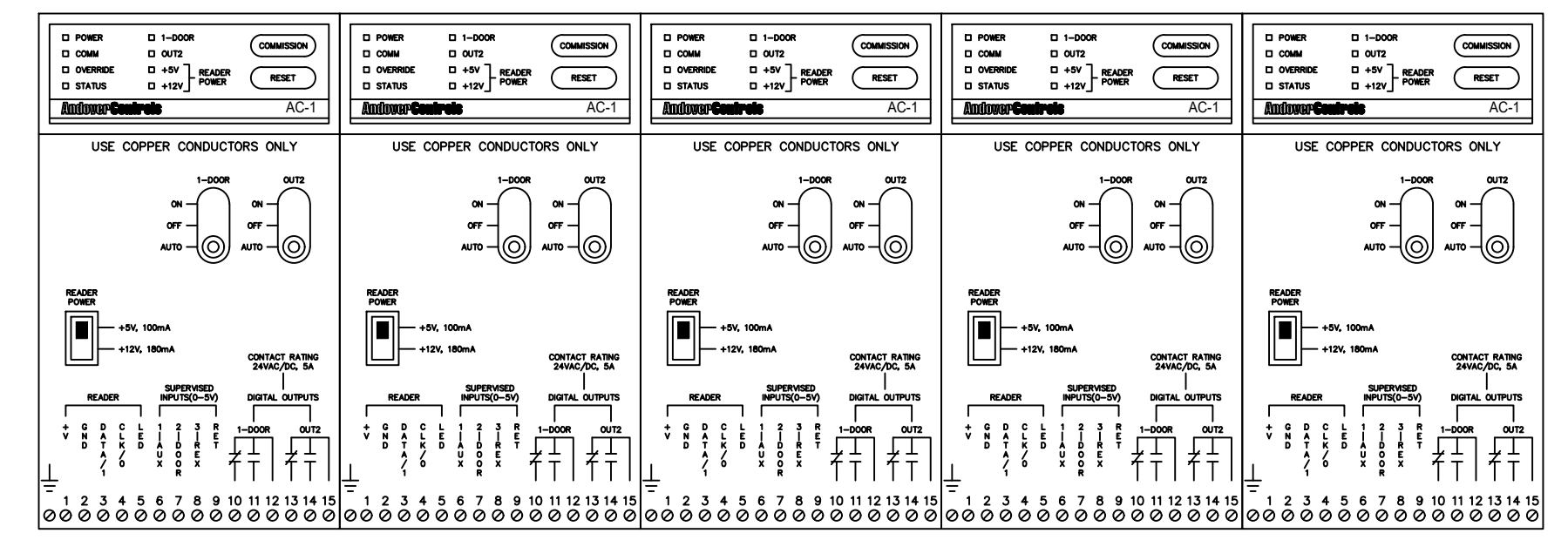
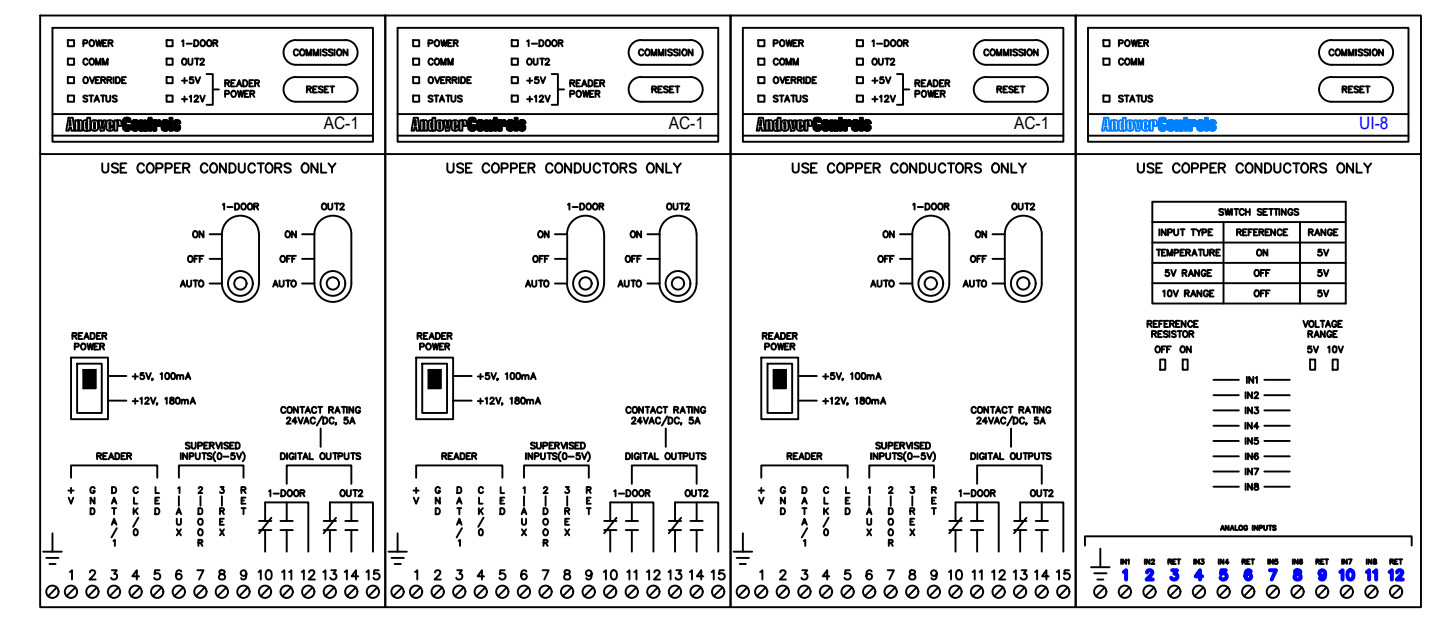
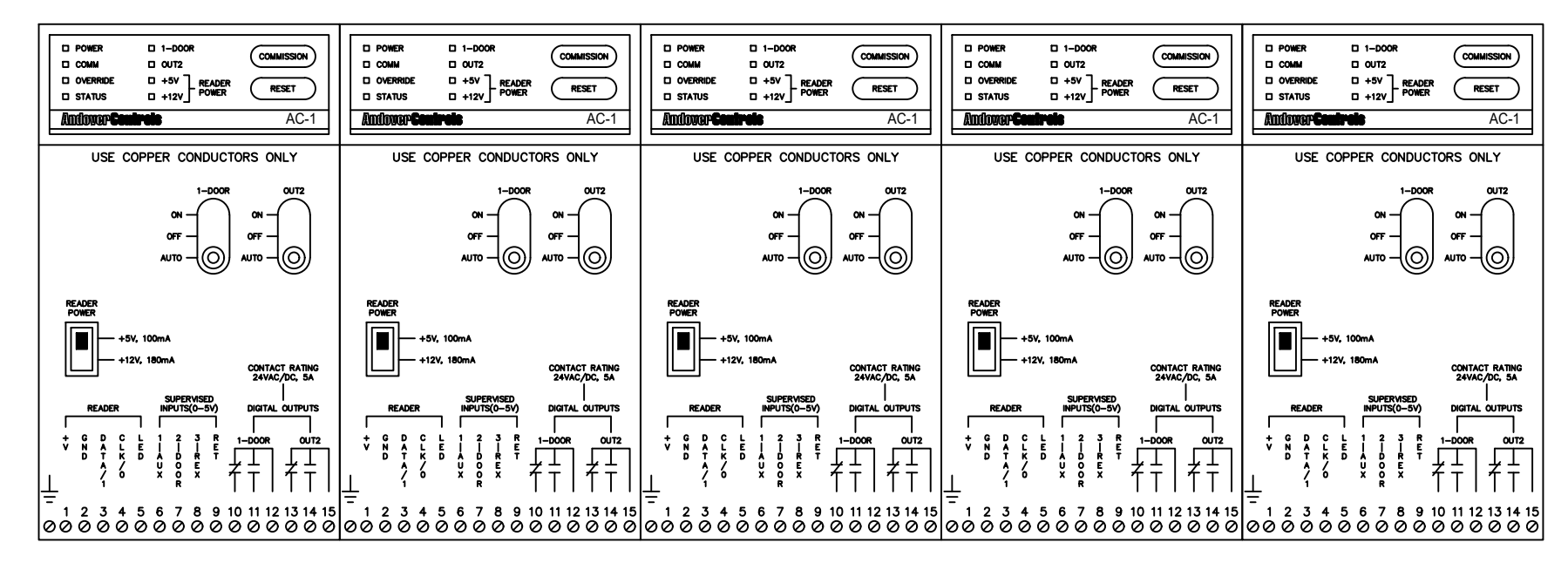
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC - SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
ACCESS CONTROL & WIRELESS LOCK  
SYSTEM TERMINATION DETAILS - 1

PROJECT NUMBER:  
GA24G3142  
SHEET NUMBER:  
RVC\_SSB\_G\_400

# EXISTING INTRUSION CONTROLLERS TO BE DEMO DURING NEW BURGLAR SYSTEM INSTALLATION



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.2  
SECURITY CLOSET 125A

EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.1  
SECURITY CLOSET 125A

SITE NAME & ADDRESS  
**ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM**

SHEET TITLE:  
**ACCESS CONTROL  
PANEL BUILD  
DETAILS – 01.ACC1.1 &  
01.ACC1.2 – DEMO**

PROJECT NUMBER:  
**GA24G3142**

SHEET NUMBER:  
**RVC\_SSB\_G\_700\_DEMO**

SITE NAME & ADDRESS  
**ROCK VALLEY COLLEGE  
 SUPPORT SERVICES BUILDING  
 3301 N. MULFORD  
 ROCKFORD, IL 61114**

REVISION RECORD

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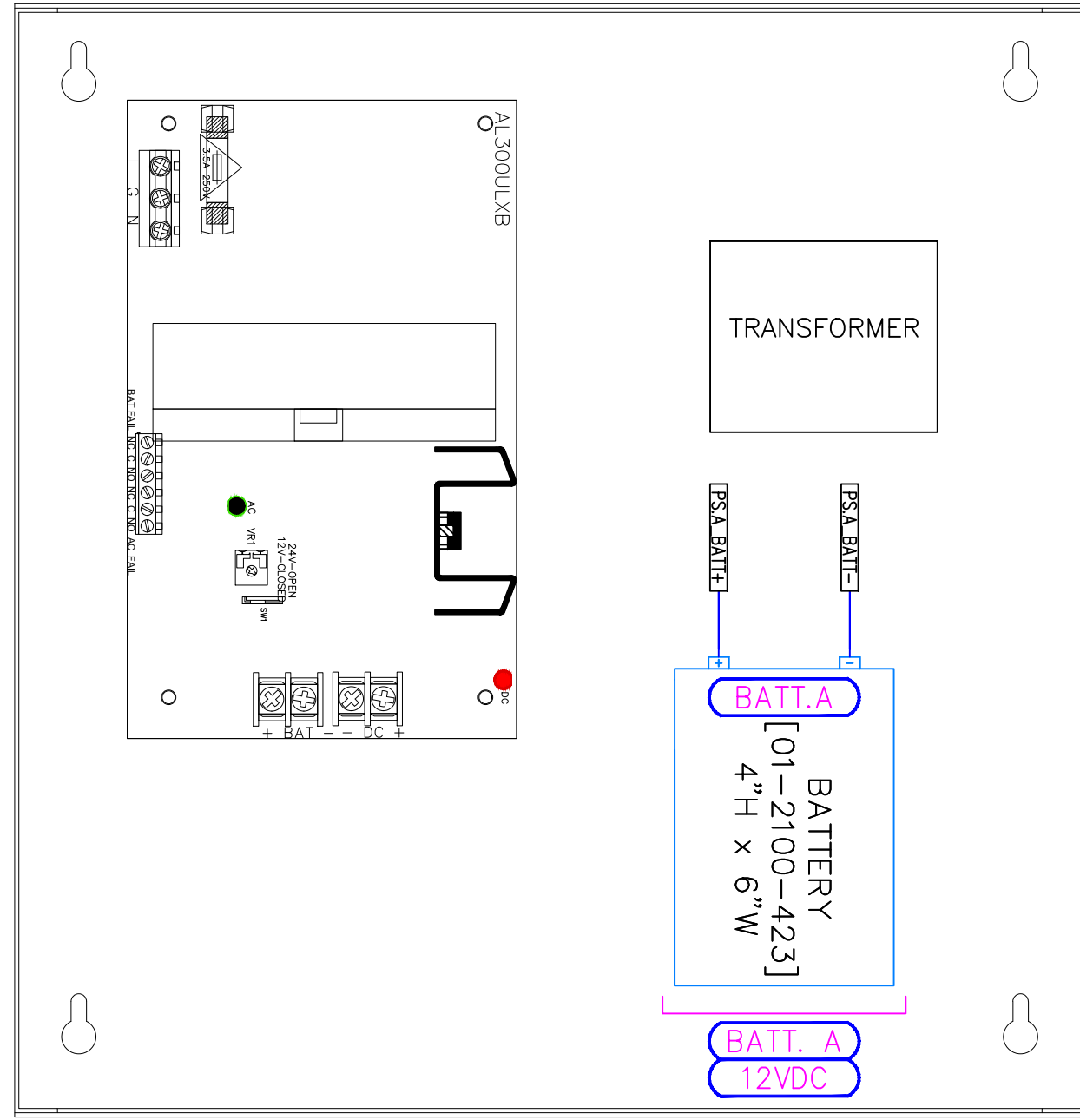
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 APPROVED: A. GAGE

PROJECT NAME:  
**RVC – SUPPORT SERVICES BLDG.  
 WIRELESS LOCKS, ACCESS CONTROL  
 & INTRUSION SYSTEM**

SHEET TITLE:  
**ACCESS CONTROL  
 PANEL BUILD  
 DETAILS – 01.PWR1.1, 2 & 3  
 DEMO**

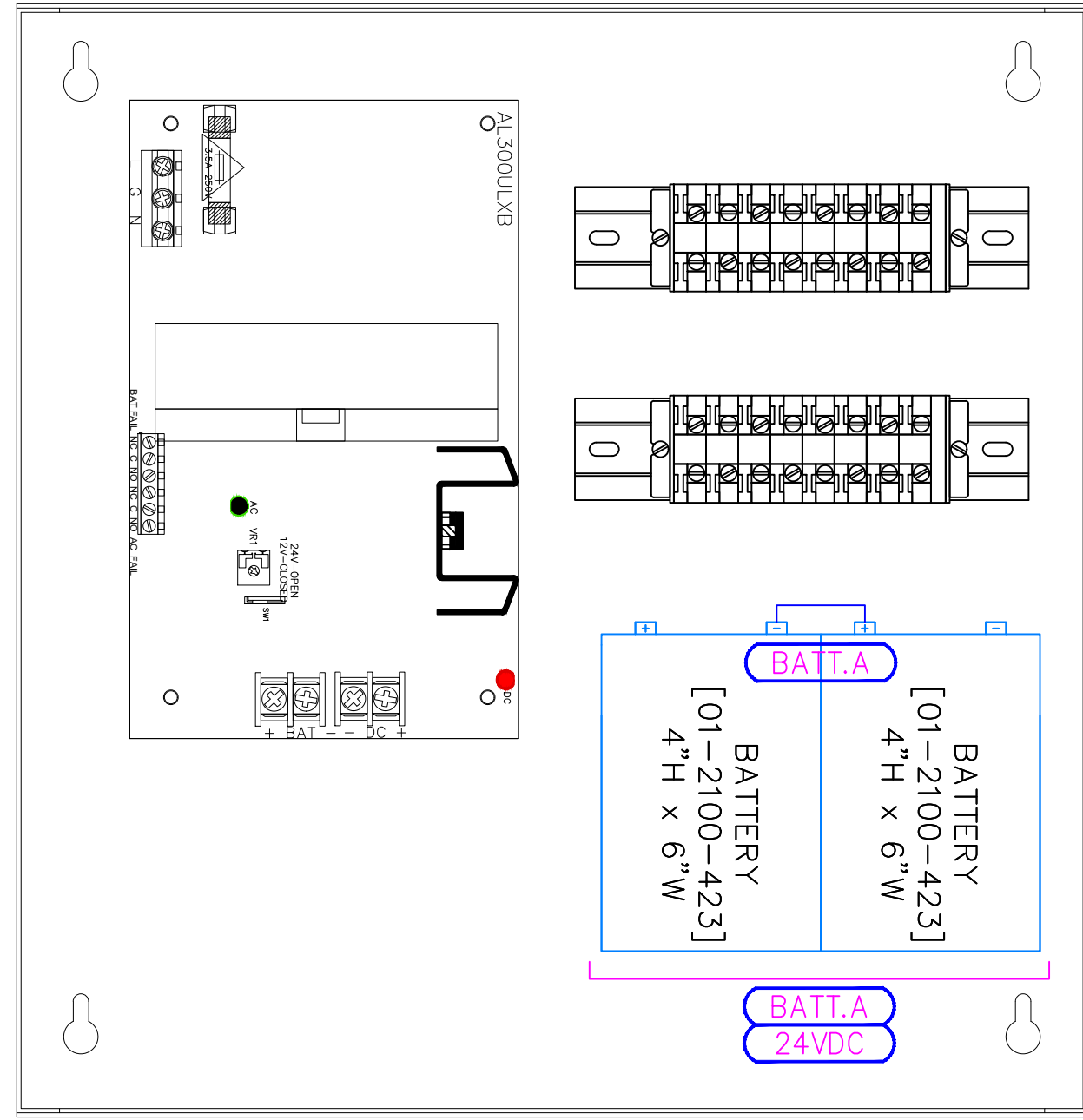
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SHEET NUMBER:  
**RVC\_SSB\_G\_701\_DEMO**



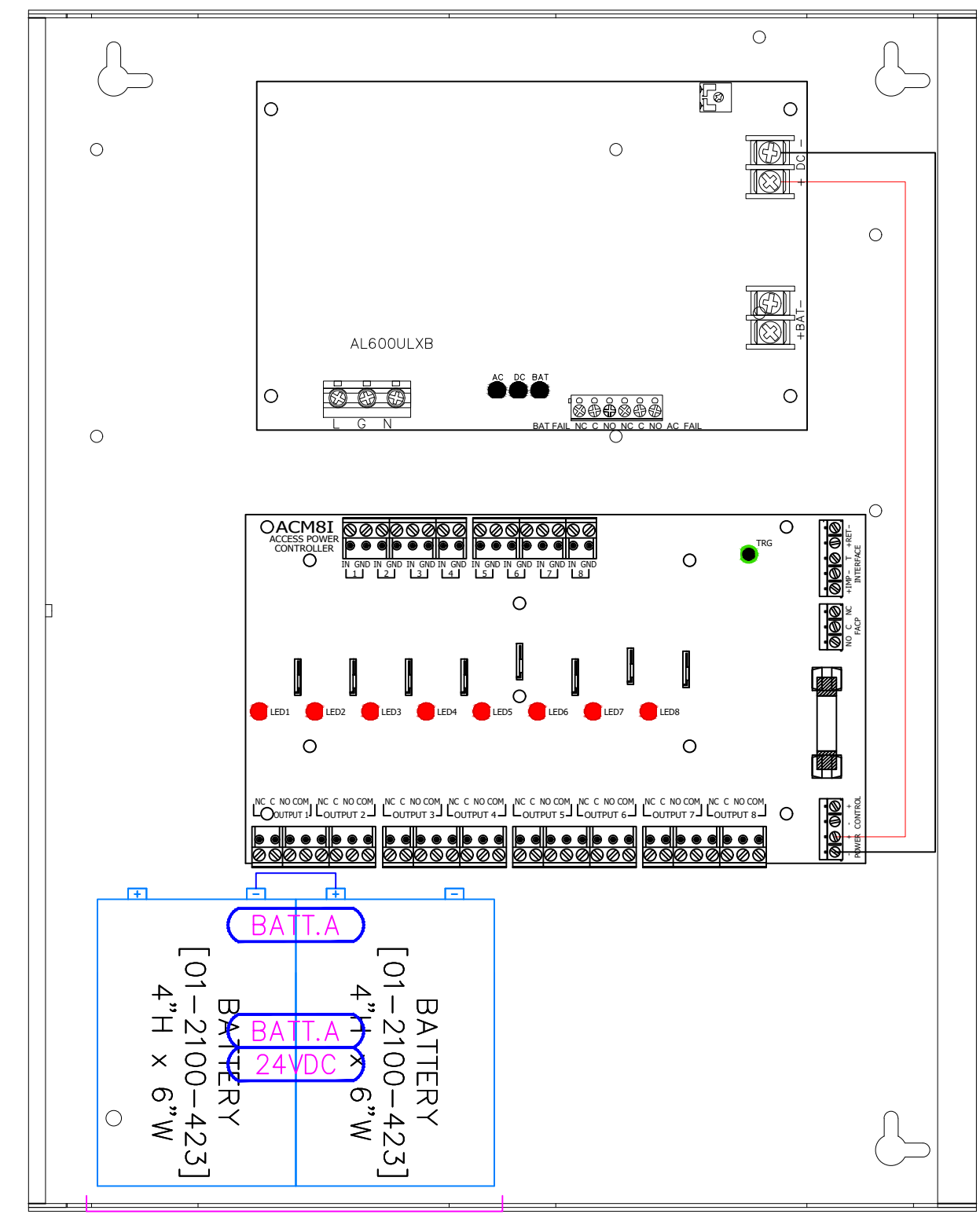
EXISTING ALTRONIX AL300ULX ENCLOSURE  
 13”H x 12.5”W x 3.25”D

01.PWR1.1  
 SECURITY CLOSET 125A



EXISTING ALTRONIX AL300ULX ENCLOSURE  
 13”H x 12.5”W x 3.25”D

01.PWR1.2  
 SECURITY CLOSET 125A



EXISTING ALTRONIX AL300ULX ENCLOSURE  
 13”H x 12.5”W x 3.25”D

01.PWR1.3  
 SECURITY CLOSET 125A

**ACCESS CONTROL  
GENERAL NOTES:**

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.

SITE NAME & ADDRESS  
**ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114**

REVISION RECORD

REV	DESCRIPTION	BY	DATE
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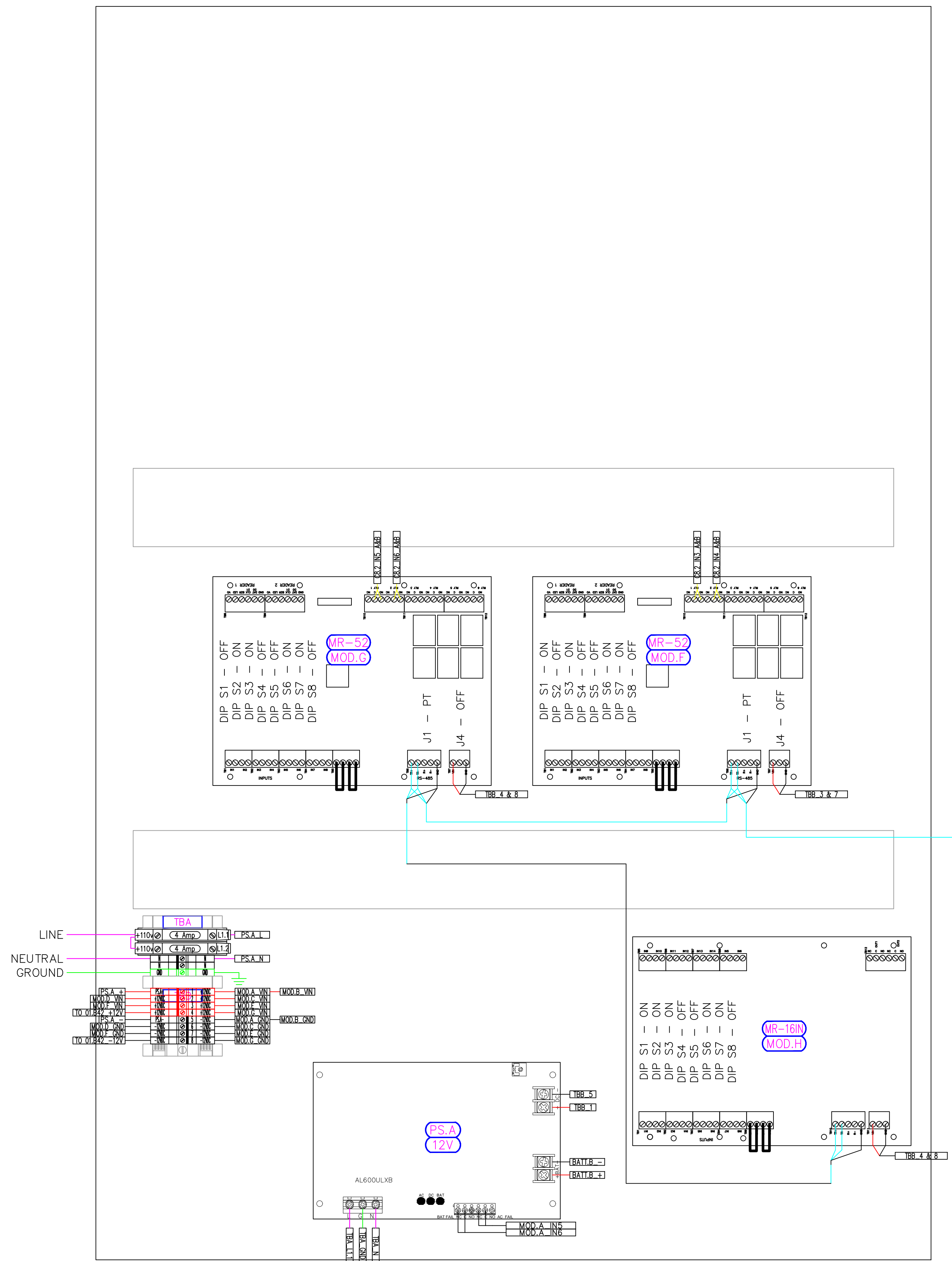
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CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
**RVC - SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM**

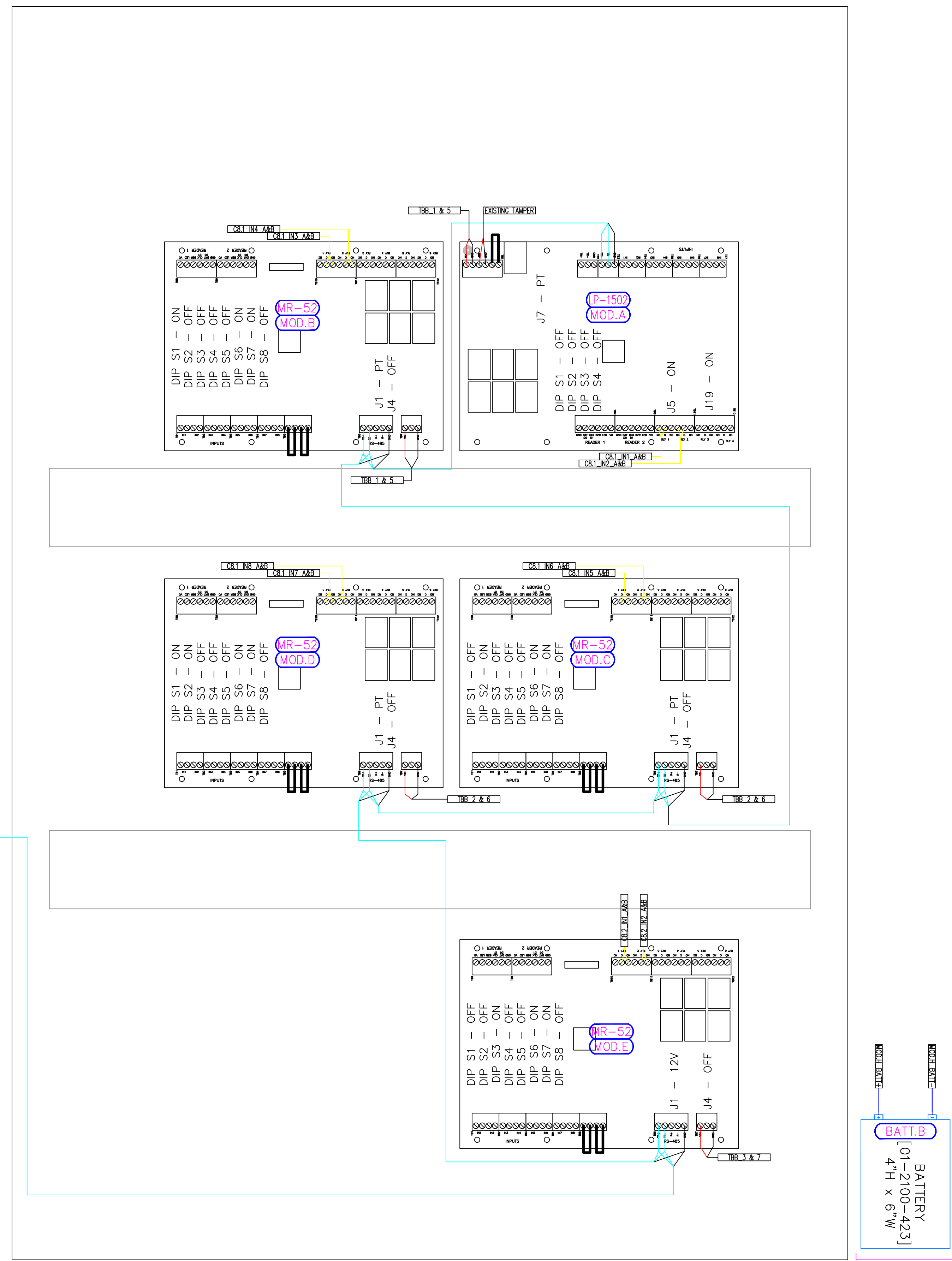
SHEET TITLE:  
**ACCESS CONTROL  
PANEL BUILD  
DETAILS - 01.ACC1.1 &  
01.ACC1.2 - NEW WORK**

PROJECT NUMBER:  
**GA24G3142**

SHEET NUMBER:  
**RVC\_SSB\_A\_700**



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.2  
SECURITY CLOSET 125A



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.1  
SECURITY CLOSET 125A

**GENERAL NOTES:**

UTILIZE EXISTING POWER SUPPLY ENCLOSURES

**KEY NOTES:**

- 1 ACCESS CONTROL CONTRACTOR TO PICK UP POWER SUPPLY AC FAIL AND LOW BATTERY ALARMS FROM THE EXISTING AND A NEW POWER SUPPLY BOARDS.
- 2 UPGRADE AL300ULXB POWER SUPPLY BOARD IN PANEL 01.PWR1.1.

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
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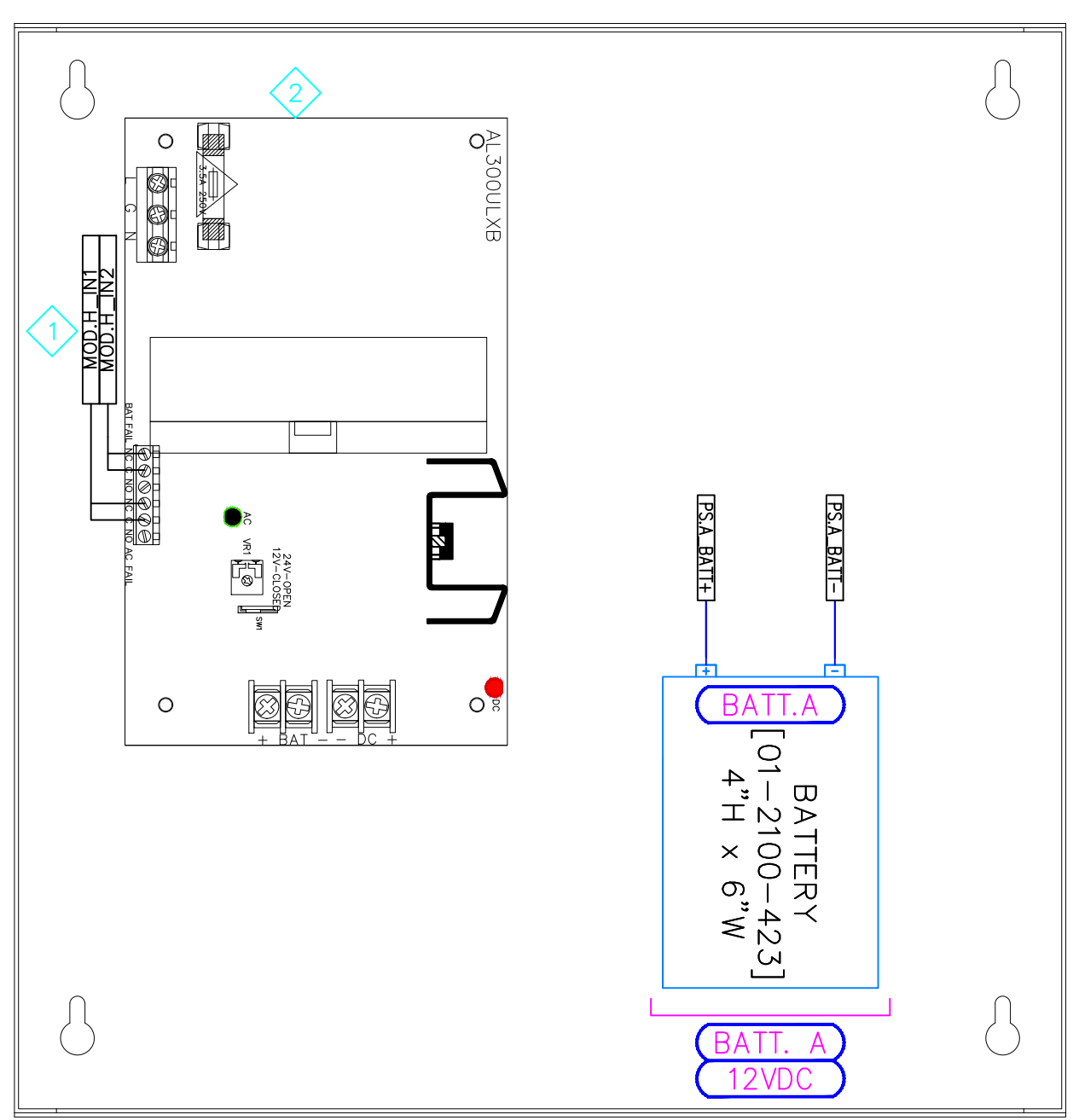
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CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
ACCESS CONTROL  
PANEL BUILD  
DETAILS – 01.PWR1.1, 2 & 3  
DEMO

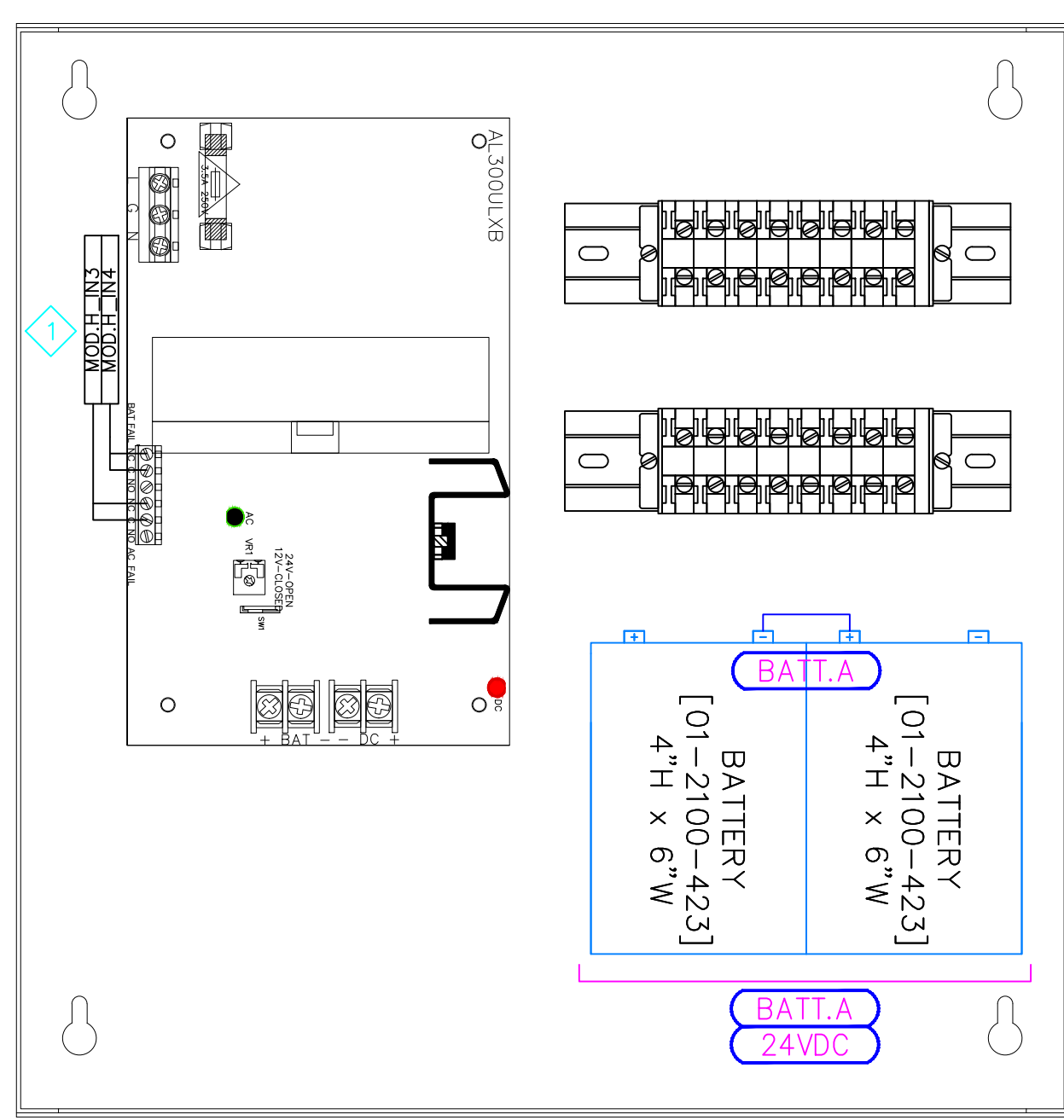
PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_A\_701



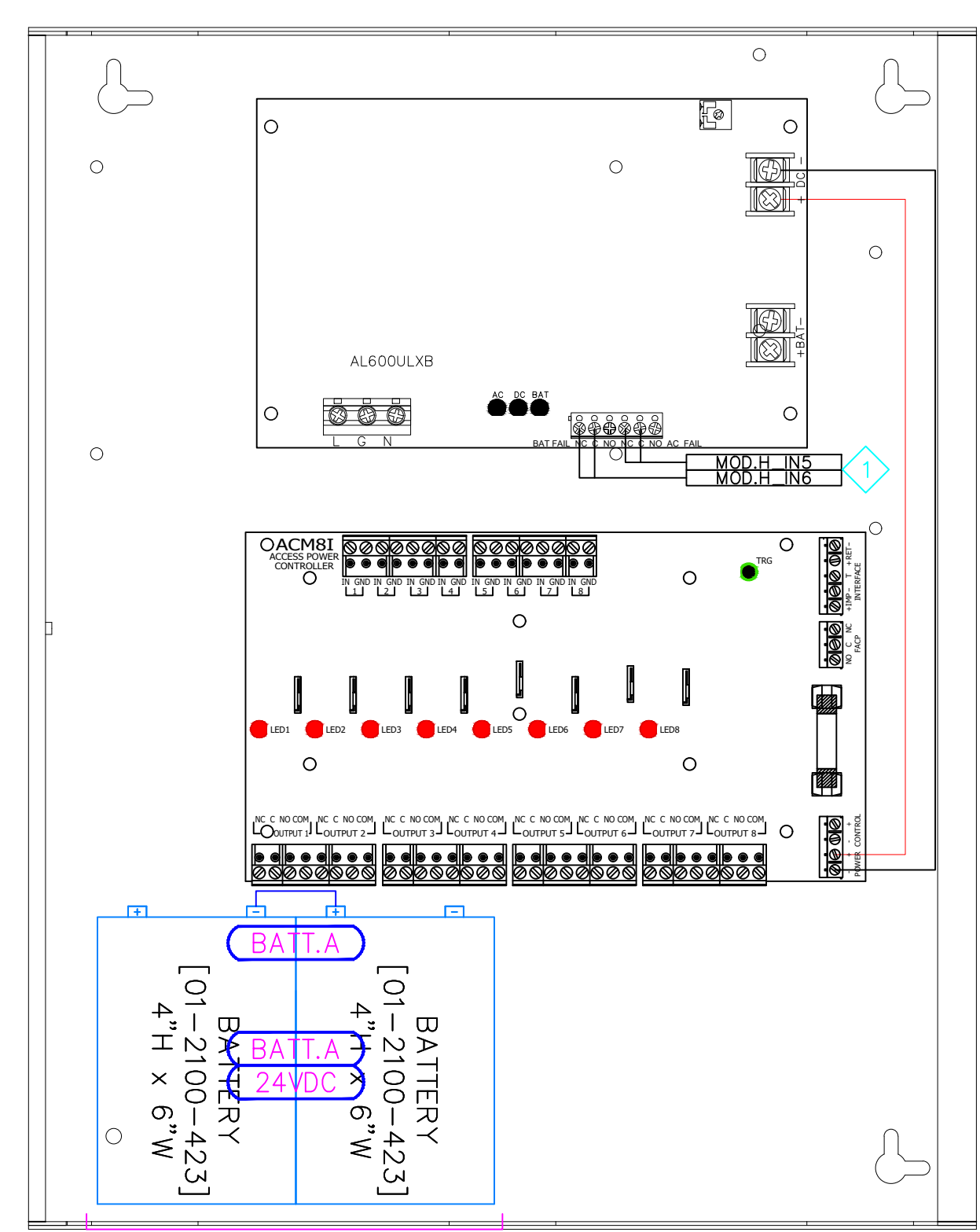
EXISTING ALTRONIX AL300ULX ENCLOSURE  
13"H x 12.5"W x 3.25"D

01.PWR1.1  
SECURITY CLOSET 125A



EXISTING ALTRONIX AL300ULX ENCLOSURE  
13"H x 12.5"W x 3.25"D

01.PWR1.2  
SECURITY CLOSET 125A



EXISTING ALTRONIX AL300ULX ENCLOSURE  
13"H x 12.5"W x 3.25"D

01.PWR1.3  
SECURITY CLOSET 125A



**GENERAL NOTES:**

THE CUSTOMER IS TO PROVIDE A NEW ETHERNET NETWORK CONNECTIONS FOR THE NEW GENETEC CONTROLLER FOR THE WIRELESS LOCK SYSTEM.

SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

REVISION RECORD			
REV	DESCRIPTION	BY	DATE
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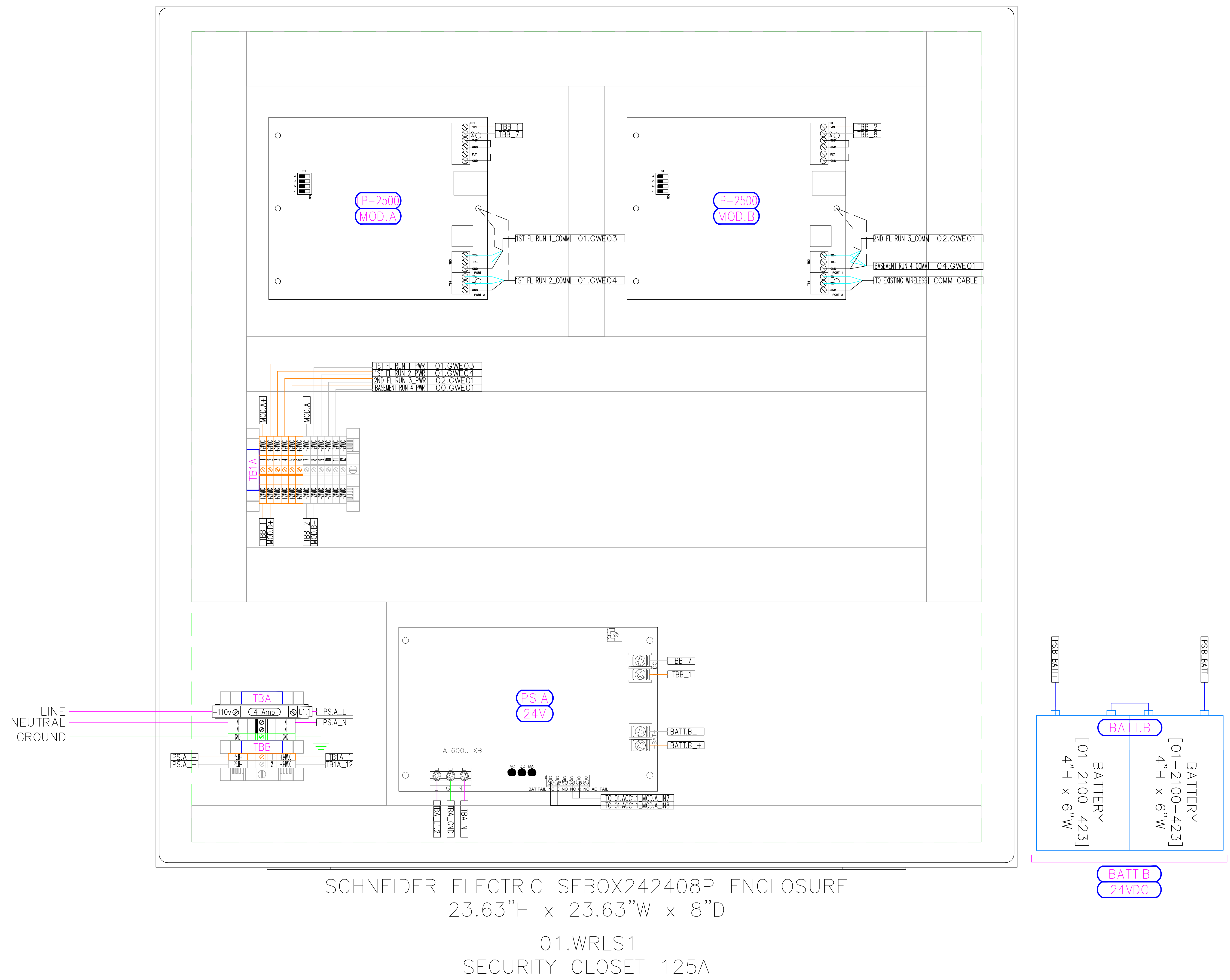
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CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC - SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

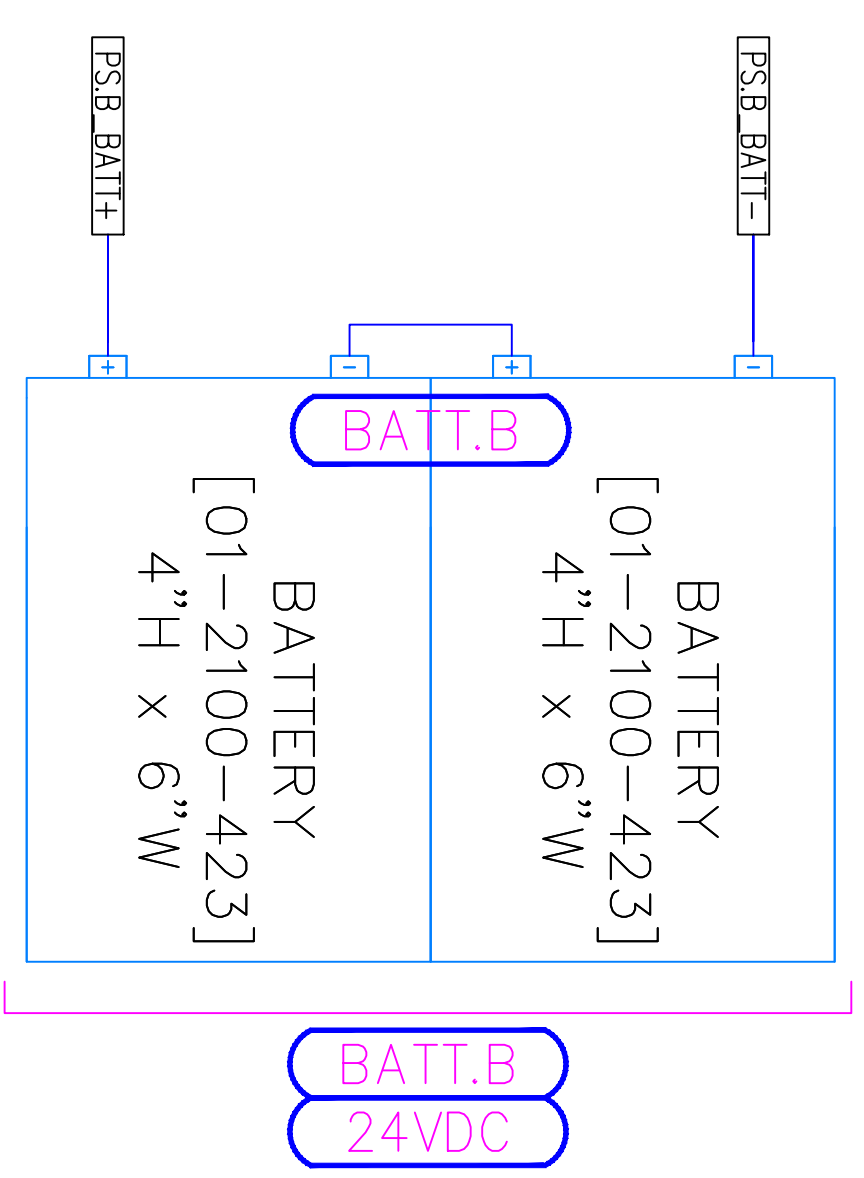
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ACCESS CONTROL  
PANEL BUILD  
DETAILS - 01.ACC1.3

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_W\_700



SCHNEIDER ELECTRIC SEBOX242408P ENCLOSURE  
23.63"H x 23.63"W x 8"D  
01.WRLS1  
SECURITY CLOSET 125A



# SSB - 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

SSB - Door Contractor_Carpenter Package .....	1
Specifications .....	3
Specifications.pdf .....	4
Drawings set.....	9
Drawing set.pdf .....	10
Door Schedule .....	19
Door Schedule.pdf .....	20

# 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.
- C.

### 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 drawing 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.

# 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), and wiring details (W\_400).

### 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 will provide 18AWG/4C for the new keypad (01.B30) and 18AWG/2C for the new door contact (01.B44) in the HR area. The intrusion contractor will provide the keypad and door contacts.
- B. The keypad will be mounted on a cinder block wall. The electrical contractor will provide the wire mold and back box.

**1. Head-End:**

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

## Intrusion system

### 1. Field Devices:

- A. Demo and replace existing Intrusion field devices with new Bosch intrusion devices.
- B. Replace any intrusion-supervised EOL resistors and install them by the field device if installed at the head-end.
- C. Provide EN4204R and four EN1235F for the new wireless panic buttons in the office area. See drawing B\_210B
- D. Provide a new D.P.D.T door contact and a ceiling mount motion sensor for the human resources area. See drawing B\_210B.

### 2. Head-End:

- A. Utilize the new in-cab 4 Amp fused receptacle for intrusion power supply.
- B. 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.
- C. Utilize the new in-cab 4 Amp fused receptacle for intrusion power supply.
- D. Provide and install CAT6 plenum-rated cable from Bosch B8512G to the nearest RVC network switch for communication.
- E.

### 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.



## **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 SUPPORT SERVICES BUILDING

3301 N. MULFORD  
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_SSB_W_001	1	ISSUED FOR REVIEW	07/26/24	TITLE SHEET & TABLE OF CONTENTS
RVC_SSB_G_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_SSB_W_200A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - BASEMENT - AREA A
RVC_SSB_W_200B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - BASEMENT - AREA B
RVC_SSB_W_210A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - FIRST FLOOR - AREA A
RVC_SSB_W_210B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - FIRST FLOOR - AREA B
RVC_SSB_W_220A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - SECOND FLOOR - AREA A
RVC_SSB_W_220B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - SECOND FLOOR - AREA B
RVC_SSB_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  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM




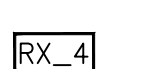




SHEET TITLE:  
TITLE SHEET &  
TABLE OF CONTENTS

PROJECT NUMBER:  
GA24G3142  
SHEET NUMBER:  
RVC\_SSB\_W\_001

**ACCESS CONTROL SYSTEM DEVICE LEGEND:**

-  NDE SCHLAGE WIRELESS LOCK W/ BUILT-IN REQUEST TO EXIT, DOOR STATUS LOCK STATUS
-  GWE GATEWAY
-  SECURITY SYSTEM CABINET
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  REQUEST-TO-EXIT MOTION SENSOR
-  CARD READER, PROXIMITY, WALL-MOUNT
-  ELECTRIC LOCKING HARDWARE
-  ELECTRIC LOCKING HARDWARE W/ BUILT-IN REX SWITCH
-  EXISTING AD-400 WIRELESS LOCKS
-  EXISTING WIRELESS PIM RECEIVER

**INTRUSION SYSTEM DEVICE LEGEND:**

-  INTRUSION KEY PAD
-  CEILING-MOUNTED MOTION SENSOR
-  PANIC BUTTON/DURESS BUTTON
-  INOVONICS EN4240R RECEIVER W/ FOUR RELAYS
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  AED CABINET DOOR CONTACT
-  RECESSED MAGNETIC DOOR CONTACT IN DOOR FRAME/HEADER

**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.


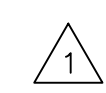
NOTE 1: TABLE DEVELOPED FOR STEEL OR ALUMINUM ALLOY CONDUIT ONLY.

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



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PHONE: 708.271.4700

SITE NAME & ADDRESS

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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

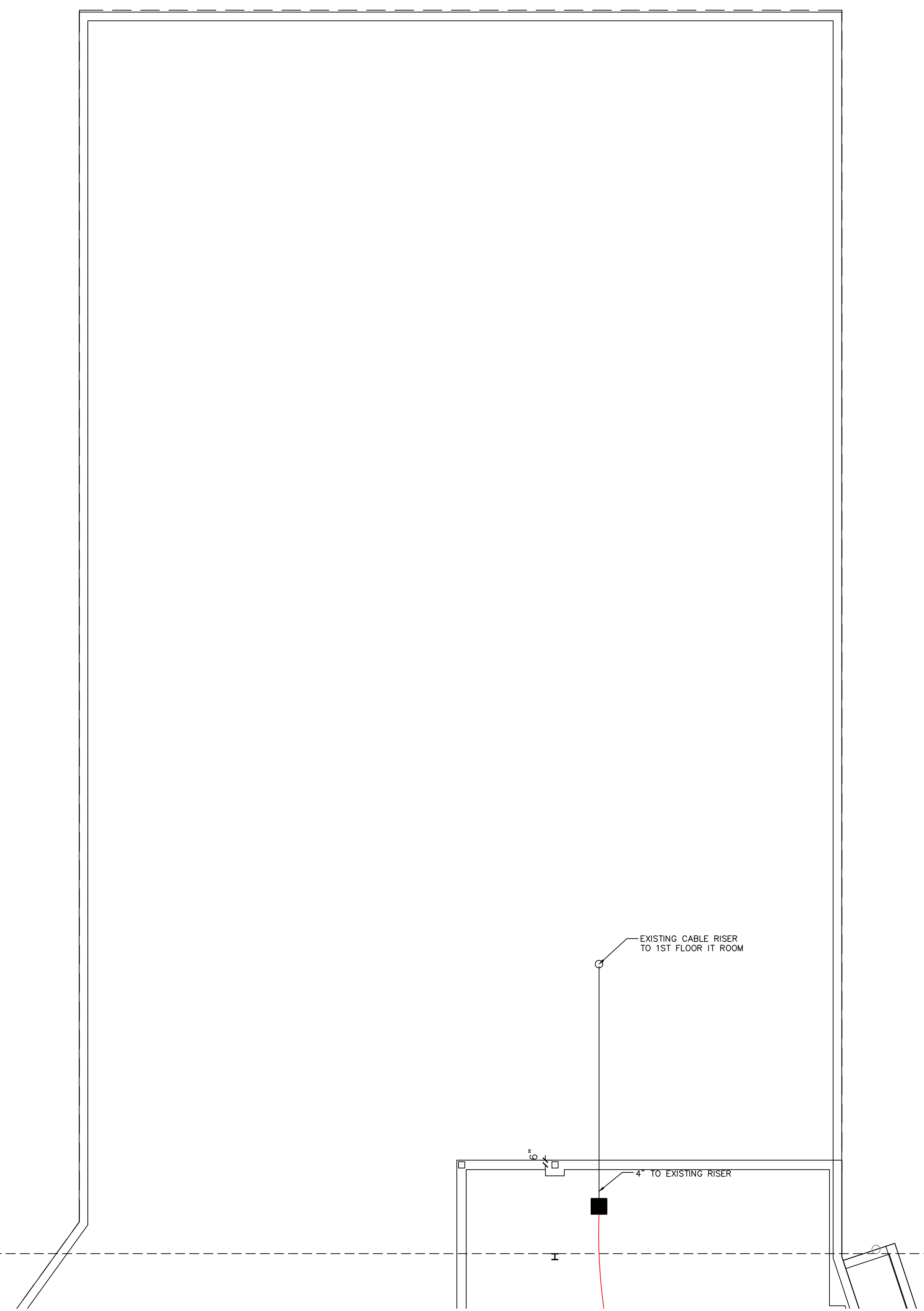
DATE: JULY 25, 2024  
SCALE: NONE  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
SYMBOL LEGEND &  
GENERAL NOTES

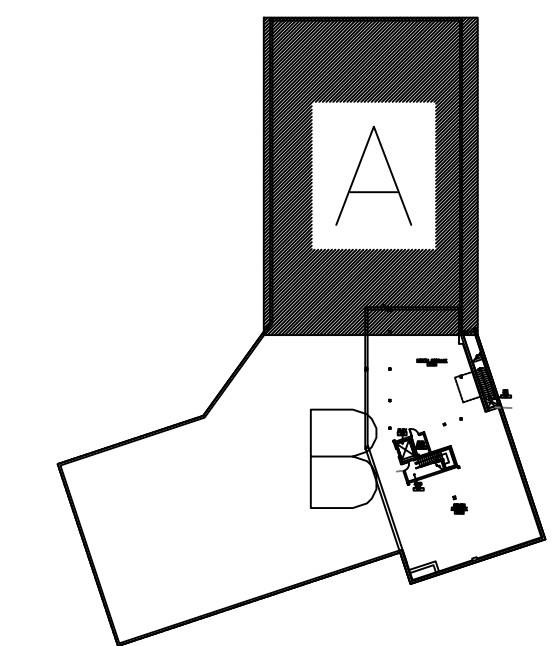
PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_G\_100



SEE G\_200B

BASEMENT – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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: F. MACIEL

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
DEVICE LOCATIONS  
WIRELESS LOCKS  
BASEMENT – AREA A

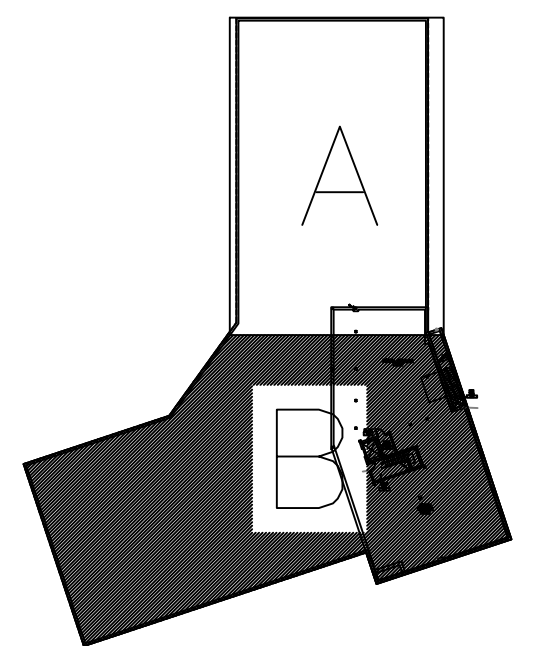
PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_W\_200A

**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  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

**REVISION RECORD**

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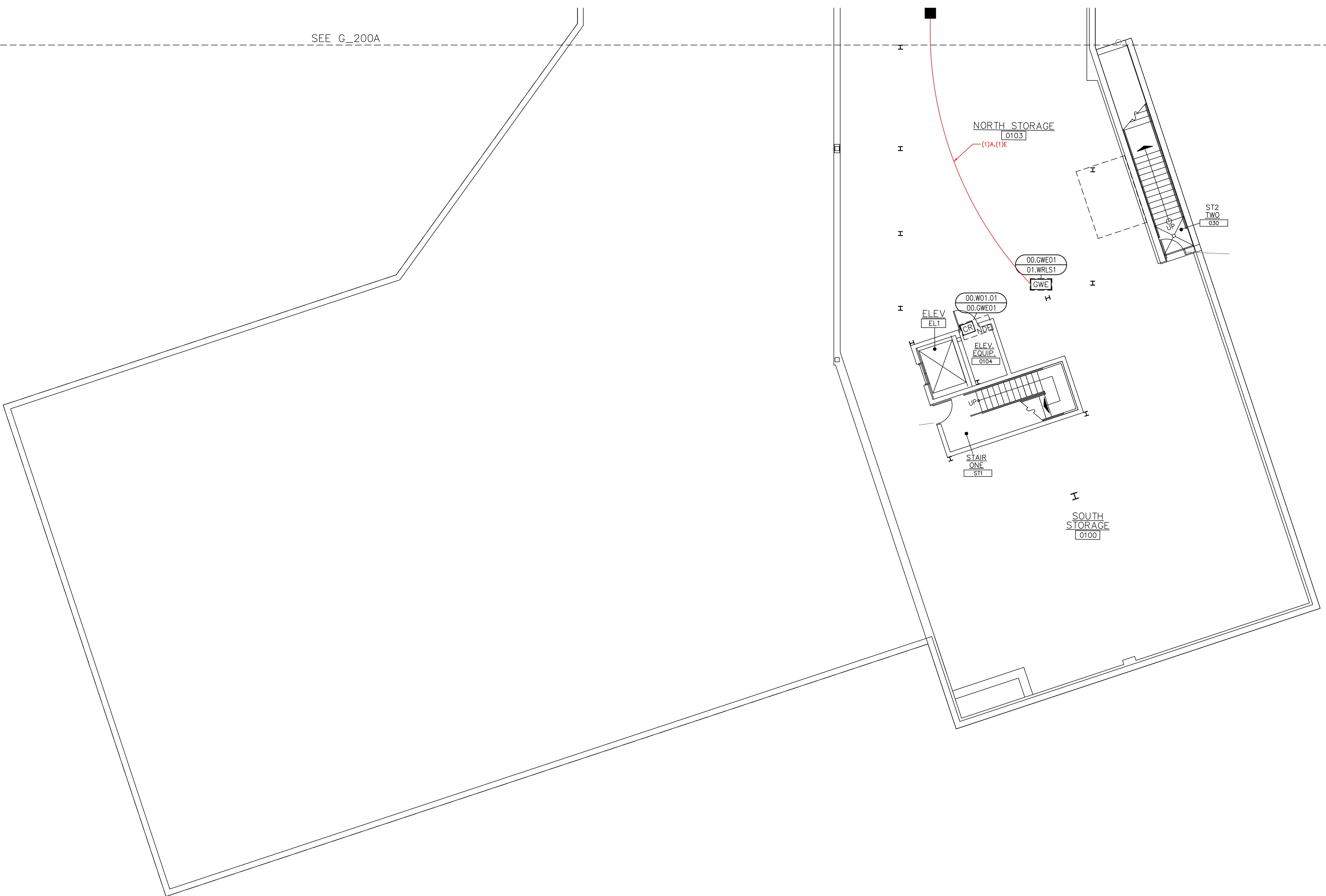
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: F. MACIEL

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

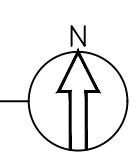
**SHEET TITLE:**  
DEVICE LOCATIONS –  
WIRELESS LOCKS  
BASEMENT – AREA B

**PROJECT NUMBER:**  
GA24G3142

**SHEET NUMBER:**  
RVC\_SSB\_W\_200B



BASEMENT – WIRELESS LOCKS – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



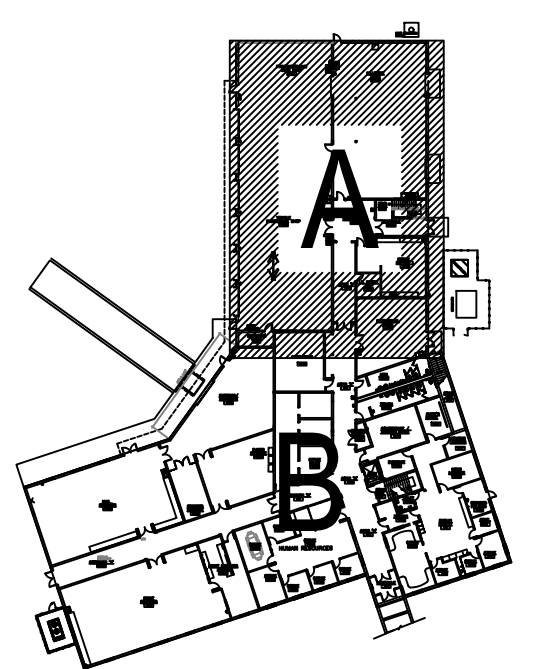
**SCOPE OF WORK:**

**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.

**KEY NOTES:**

- 1 REPLACE EXISTING AD400 BROKEN LOCK WITH A NEW NDE LOCK.



**SITE NAME & ADDRESS**  
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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

**REVISION RECORD**

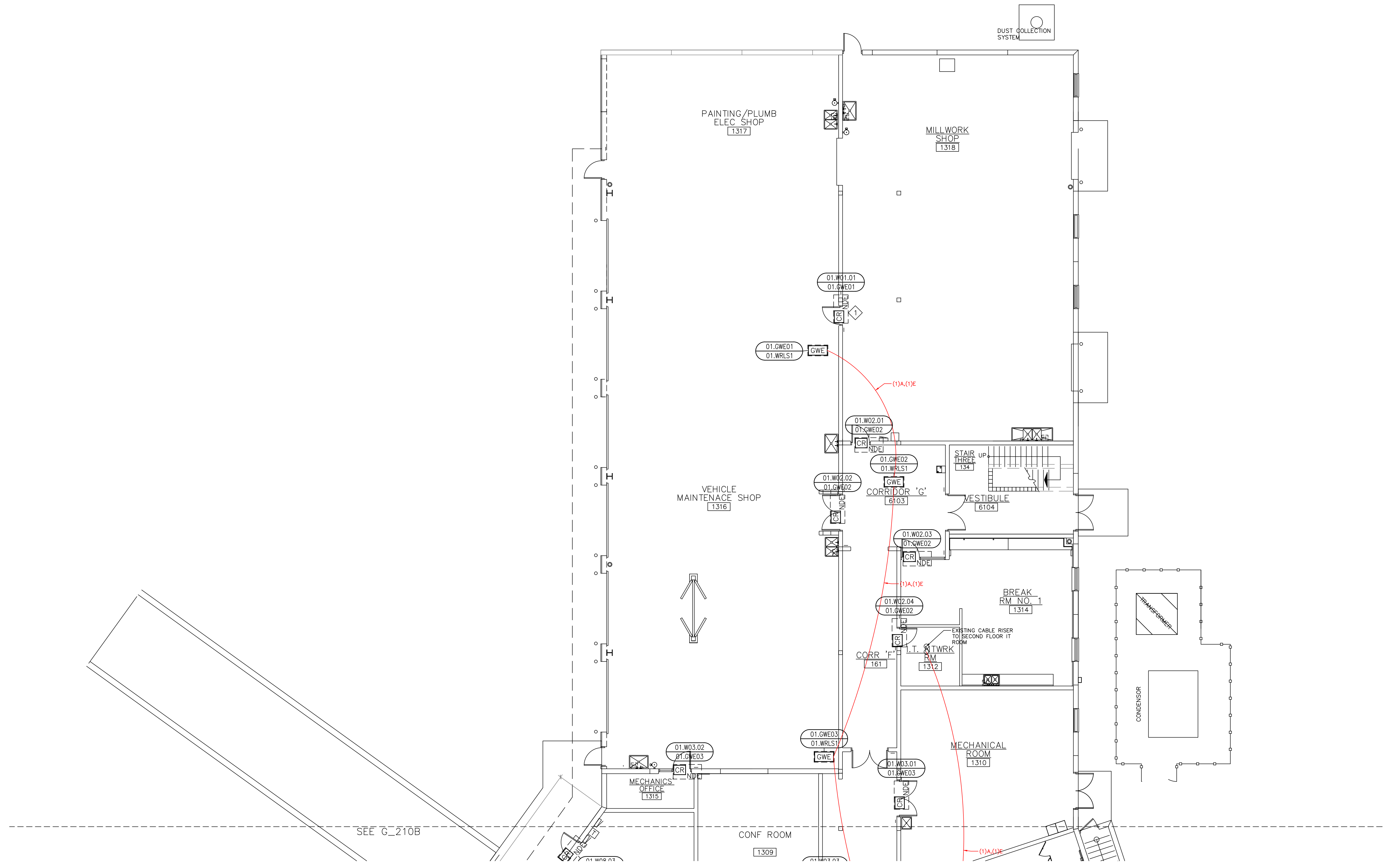
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DATE: JULY 16, 2024  
SCALE: 1/8" = 1'-0"  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS  
WIRELESS LOCKS  
FIRST FLOOR – AREA A

**PROJECT NUMBER:**  
GA24G3142  
**SHEET NUMBER:**  
RVC\_SSB\_W\_210A



1 FIRST FLOOR – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

SEE G\_210B

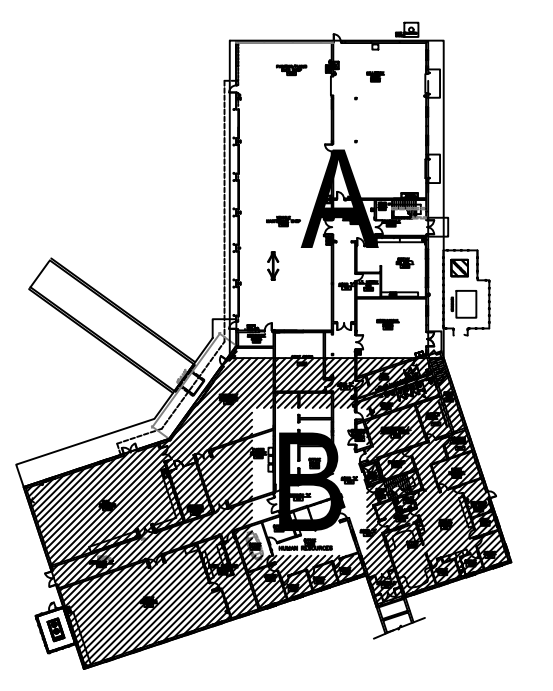
**SCOPE OF WORK:**

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.

**KEY NOTES:**

- 1 EXISTING KEYPAD AT HR AREA TO BE MOUNTED ON GINDER BLOCK WALL. ELECTRICAL TO PROVIDE BACK BOX AND WIRE MOLD. VERIFY EXACT LOCATION WITH OWNER AND INTRUSION CONTRACTOR.



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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

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1			

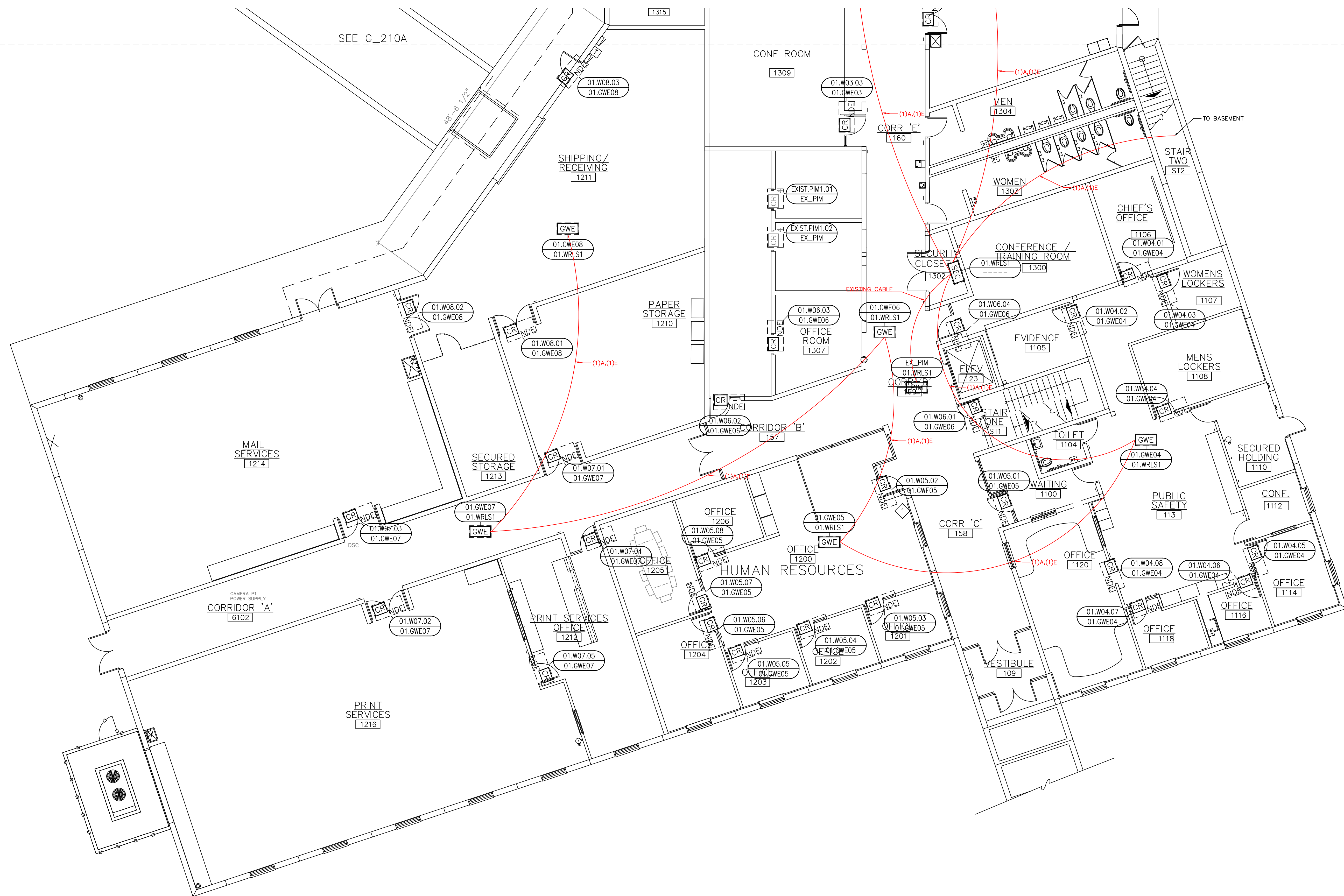
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

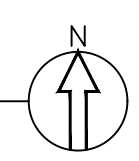
SHEET TITLE:  
DEVICE LOCATIONS –  
WIRELESS LOCKS  
FIRST FLOOR – AREA B

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_W\_210B



FIRST FLOOR – WIRELESS LOCKS – AREA B  
1 DEVICE LOCATION PLAN  
SCALE: AS NOTED

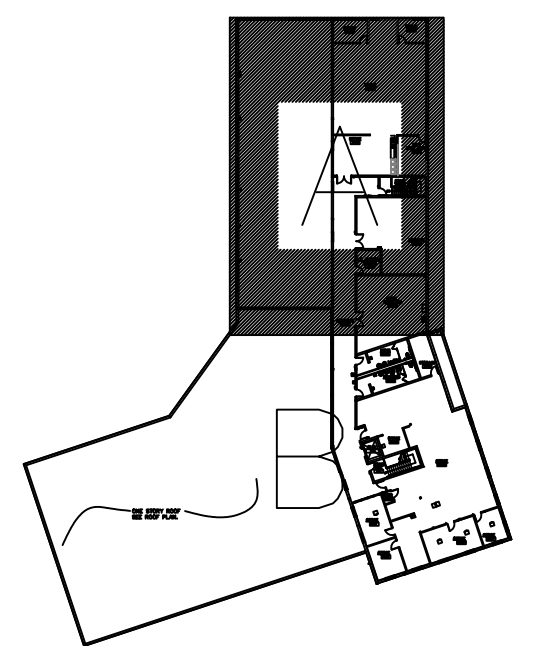




**SCOPE OF WORK:**

**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**  
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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

**REVISION RECORD**

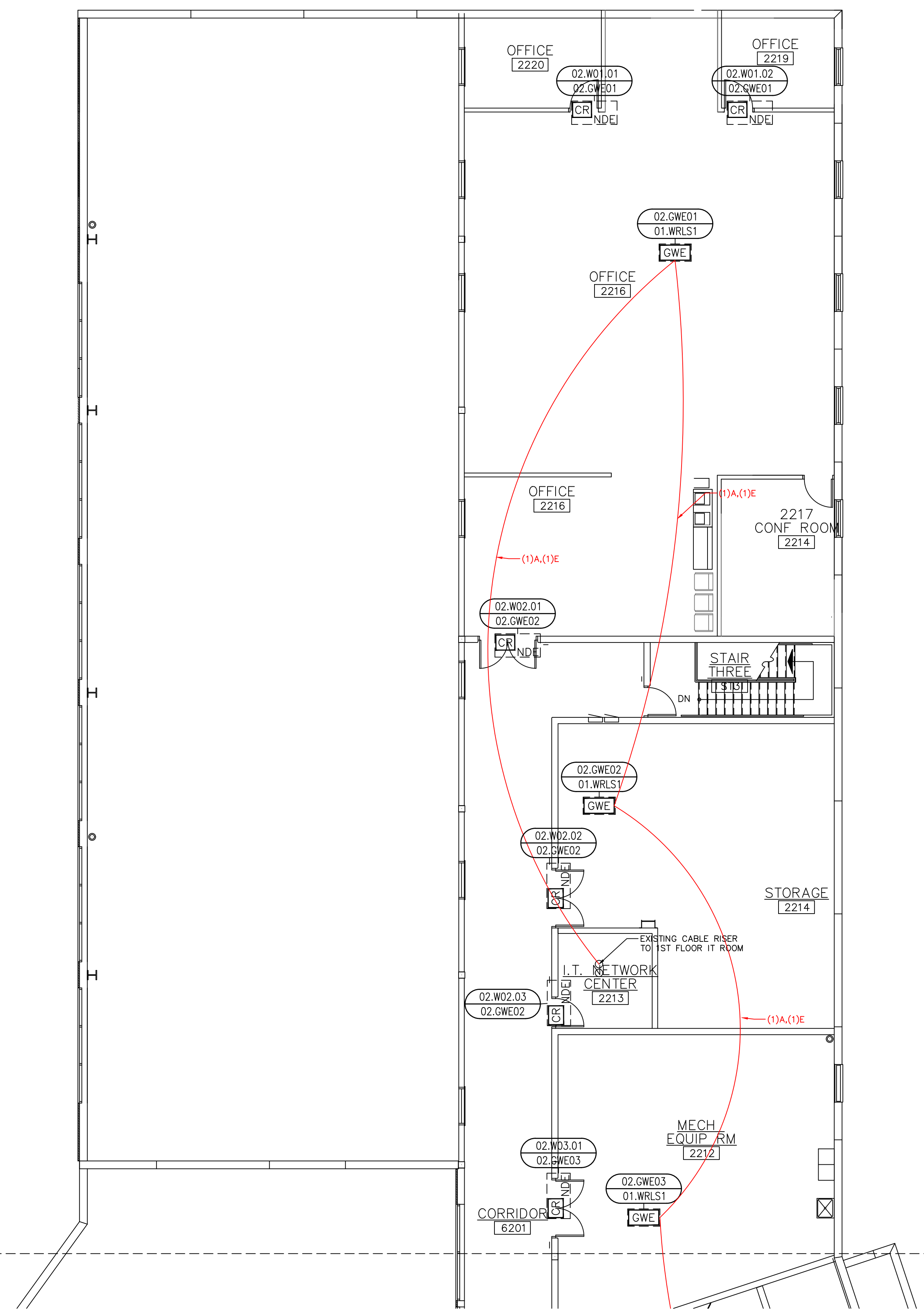
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DATE: JULY 16, 2024  
SCALE: 1/8" = 1'-0"  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS  
WIRELESS LOCKS  
SECOND FLOOR – AREA A

**PROJECT NUMBER:**  
GA24G3142  
**SHEET NUMBER:**  
RVC\_SSB\_W\_220A



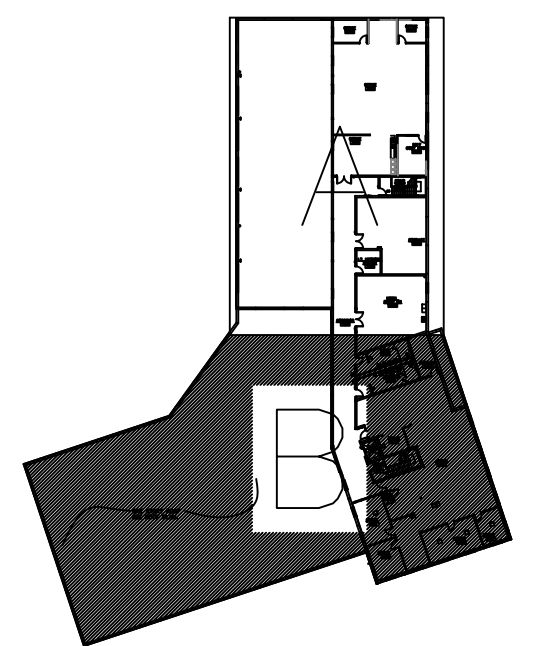
SEE G\_220B

1 SECOND FLOOR – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

**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  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

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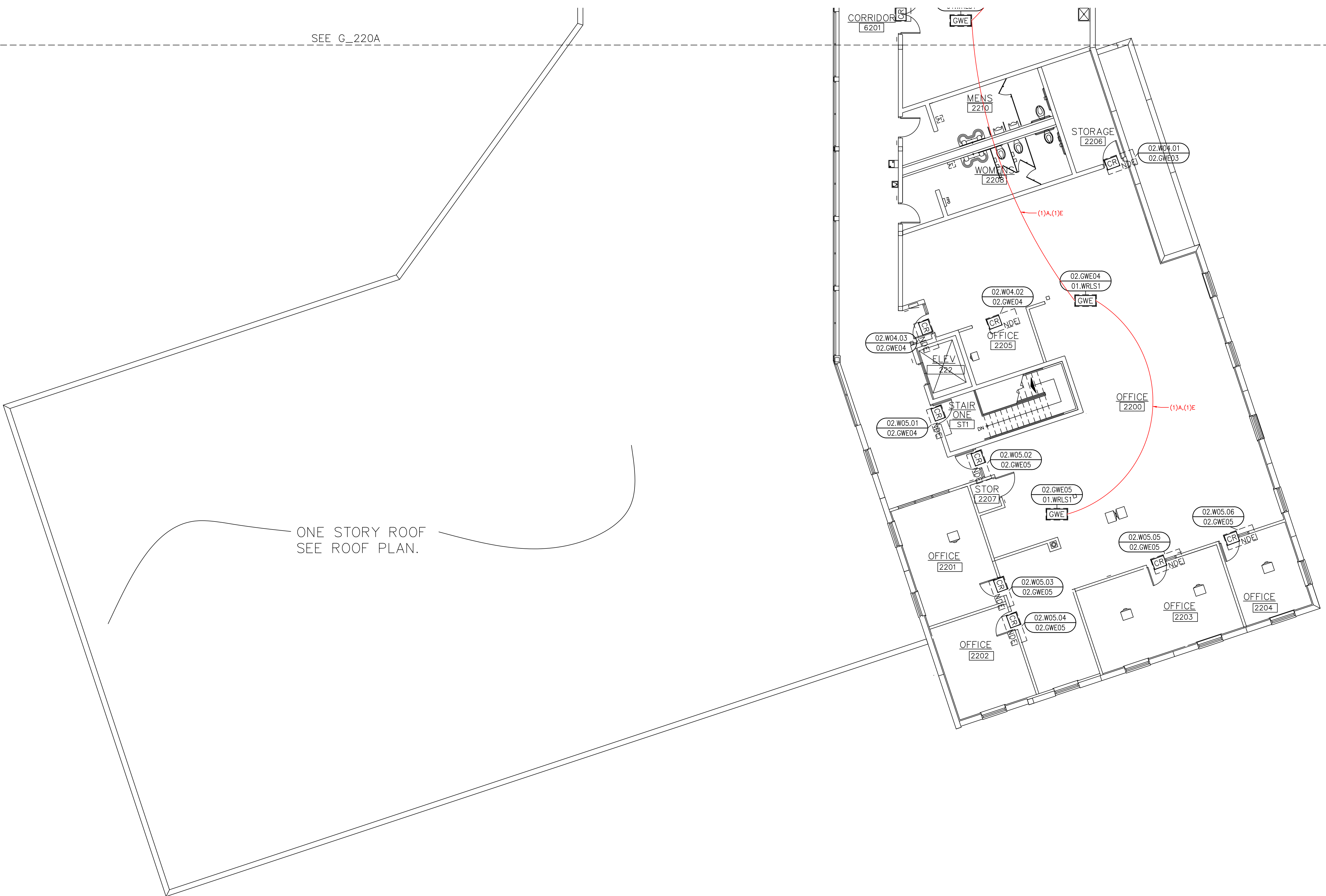
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

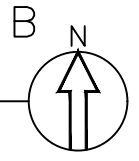
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DEVICE LOCATIONS –  
WIRELESS LOCKS  
SECOND FLOOR – AREA B

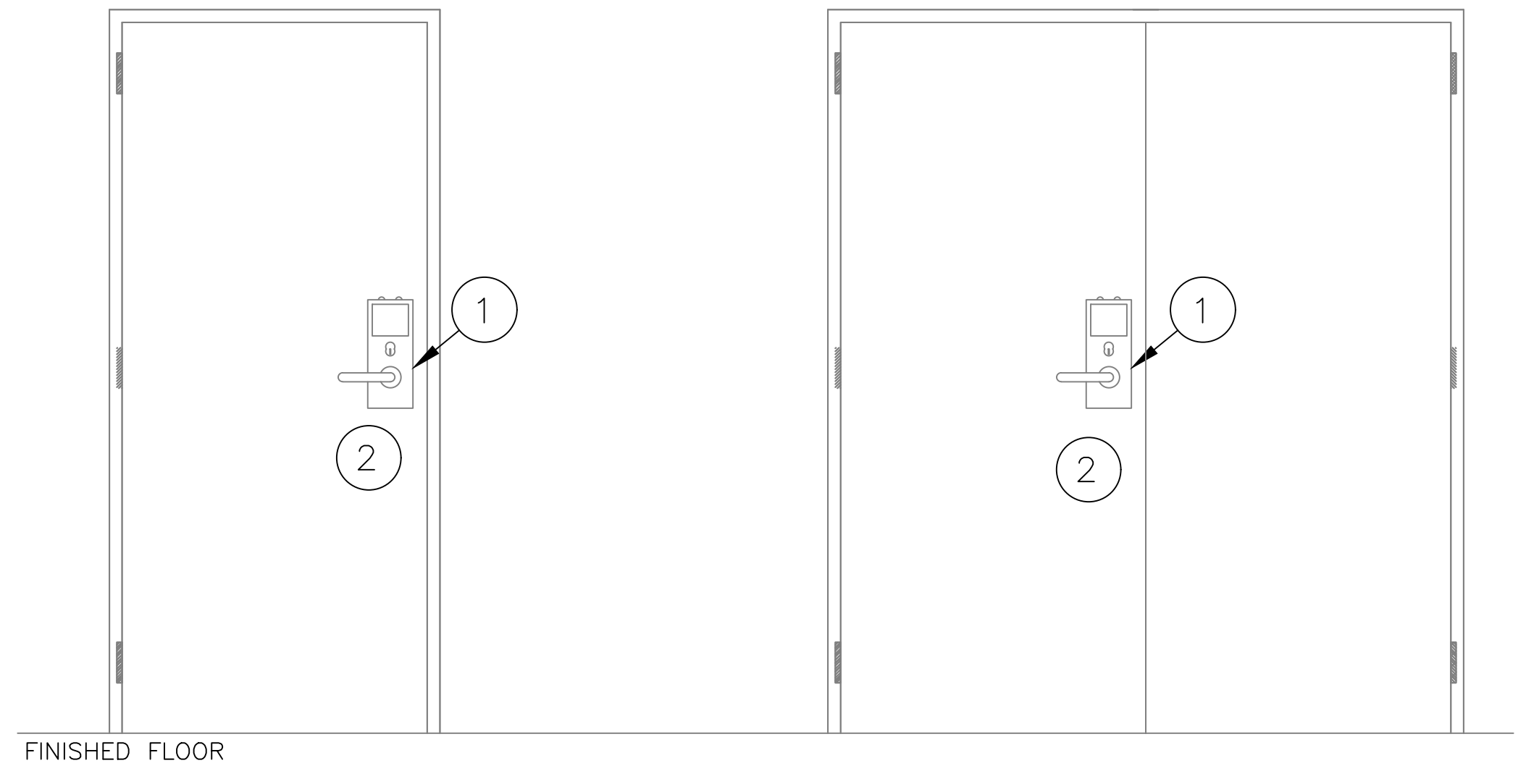
**PROJECT NUMBER:**  
GA24G3142

**SHEET NUMBER:**  
RVC\_SSB\_W\_220B



SECOND FLOOR – WIRELESS LOCKS – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED





- 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  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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REVISION RECORD

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

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
ACCESS CONTROL & WIRELESS  
DEVICES CONDUIT INSTALLATION  
DETAILS

PROJECT NUMBER:  
GA24G3142  
SHEET NUMBER:  
RVC\_SSB\_W\_500

# Door Schedule

**Support Service Building - 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 Thickness	Notes
0104	Elevator Equipment Room	00.W01.01	NDE / Allegion												
1317	Painting/Plump Elec Shop	01.W01.01	NDE / Allegion												
1318	Millwork Shop	01.W02.01	NDE / Allegion												
1316	Vehicle Maintenace Shop	01.W02.02	NDE / Allegion												
1314	Break Room NO.1	01.W02.03	NDE / Allegion												
1312	I.T. Network Room	01.W02.04	NDE / Allegion												
1310	Mechanical Room	01.W03.01	NDE / Allegion												
1315	Mechanics Office	01.W03.02	NDE / Allegion												
1309	Conf Room	01.W03.03	NDE / Allegion												
1106	Chief's Office	01.W04.01	NDE / Allegion												
1105	Evidence	01.W04.02	NDE / Allegion												
1107	Women's Lockers	01.W04.03	NDE / Allegion												
1108	Men's Lockers	01.W04.04	NDE / Allegion												
1114	Office	01.W04.05	NDE / Allegion												
1116	Office	01.W04.06	NDE / Allegion												
1118	Office	01.W04.07	NDE / Allegion												
1120	Office	01.W04.08	NDE / Allegion												
100	Waiting	01.W05.01	NDE / Allegion												
1200	Office	01.W05.02	NDE / Allegion												
1201	Office	01.W05.03	NDE / Allegion												
1202	Office	01.W05.04	NDE / Allegion												
1203	Office	01.W05.05	NDE / Allegion												
1204	Office	01.W05.06	NDE / Allegion												
1205	Office	01.W05.07	NDE / Allegion												
1206	Office	01.W05.08	NDE / Allegion												
ST1	Stair One	01.W06.01	NDE / Allegion												
?	Office Area	01.W06.02	NDE / Allegion												
1307	Office Room	01.W06.03	NDE / Allegion												
?	Office	EXIST.PIM1.01	Existing AD-400												Existing to remain
?	Office	EXIST.PIM1.02	Existing AD-400												Existing to remain
1210	Paper Storage (South)	01.W07.01	NDE / Allegion												
1216	Print Services	01.W07.02	NDE / Allegion												
1214	Mail Services (South)	01.W07.03	NDE / Allegion												
1210	Paper Storage (North)	01.W08.01	NDE / Allegion												
1214	Mail Services (NE)	01.W08.02	NDE / Allegion												
1211	Shipping Receiving	01.W08.03	NDE / Allegion												
2220	Office	02.W01.01	NDE / Allegion												
2219	Office	02.W01.02	NDE / Allegion												
2216	Office	02.W02.01	NDE / Allegion												
2214	Storage	02.W02.02	NDE / Allegion												
2213	I.T. Network Center	02.W02.03	NDE / Allegion												
2212	Mech Equip Room	02.W03.01	NDE / Allegion												
2206	Storage	02.W04.01	NDE / Allegion												
2205	Office	02.W04.02	NDE / Allegion												

2200	Office North Entrance	02.W04.03	NDE / Allegion												
ST1	Stair One	02.W05.01	NDE / Allegion												
2200	Office South Entrance	02.W05.02	NDE / Allegion												
2201	Office	02.W05.03	NDE / Allegion												
2202	Office	02.W05.04	NDE / Allegion												
2203	Office	02.W05.05	NDE / Allegion												
2204	Office	02.W05.06	NDE / Allegion												

**Note: Door contractor / Carpenter to fill in door information**

# SSB - 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

SSB - 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), and wiring details (W\_400).

### 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 will provide 18AWG/4C for the new keypad (01.B30) and 18AWG/2C for the new door contact (01.B44) in the HR area. The intrusion contractor will provide the keypad and door contacts.
- B. The keypad will be mounted on a cinder block wall. The electrical contractor will provide the wire mold and back box.

**1. 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 SUPPORT SERVICES BUILDING

3301 N. MULFORD  
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_SSB_G_001	1	ISSUED FOR REVIEW	07/26/24	TITLE SHEET & TABLE OF CONTENTS
RVC_SSB_G_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_SSB_W_200A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - BASEMENT - AREA A
RVC_SSB_W_200B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - BASEMENT - AREA B
RVC_SSB_W_210A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - FIRST FLOOR - AREA A
RVC_SSB_W_210B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - FIRST FLOOR - AREA B
RVC_SSB_W_220A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - SECOND FLOOR - AREA A
RVC_SSB_W_220B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - WIRELESS LOCKS - SECOND FLOOR - AREA B
RVC_SSB_W_300	1	ISSUED FOR REVIEW	07/26/24	WIRELESS LOCKS SYSTEM RISER DIAGRAM
RVC_SSB_E_400	1	ISSUED FOR REVIEW	07/26/24	WIRELESS LOCK SYSTEM GATEWAY MOUNTING & TERMINATION DETAILS
RVC_SSB_E_700	1	ISSUED FOR REVIEW	07/26/24	MULTI SYSTEMS PANEL BUILD DETAILS - 01.ACC1.1 & 2
RVC_SSB_A_800	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL ELEVATIONS



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PHONE: 708.271.4700

### SITE NAME & ADDRESS

ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
TITLE SHEET &  
TABLE OF CONTENTS




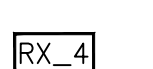




PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_E\_001

**ACCESS CONTROL SYSTEM DEVICE LEGEND:**

-  NDE SCHLAGE WIRELESS LOCK W/ BUILT-IN REQUEST TO EXIT, DOOR STATUS LOCK STATUS
-  GWE GATEWAY
-  SECURITY SYSTEM CABINET
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  REQUEST-TO-EXIT MOTION SENSOR
-  CARD READER, PROXIMITY, WALL-MOUNT
-  ELECTRIC LOCKING HARDWARE
-  ELECTRIC LOCKING HARDWARE W/ BUILT-IN REX SWITCH
-  EXISTING AD-400 WIRELESS LOCKS
-  EXISTING WIRELESS PIM RECEIVER

**INTRUSION SYSTEM DEVICE LEGEND:**

-  INTRUSION KEY PAD
-  CEILING-MOUNTED MOTION SENSOR
-  PANIC BUTTON/DURESS BUTTON
-  INOVONICS EN4240R RECEIVER W/ FOUR RELAYS
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  AED CABINET DOOR CONTACT
-  RECESSED MAGNETIC DOOR CONTACT IN DOOR FRAME/HEADER

**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.


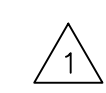
NOTE 1: TABLE DEVELOPED FOR STEEL OR ALUMINUM ALLOY CONDUIT ONLY.

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



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3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
SYMBOL LEGEND &  
GENERAL NOTES

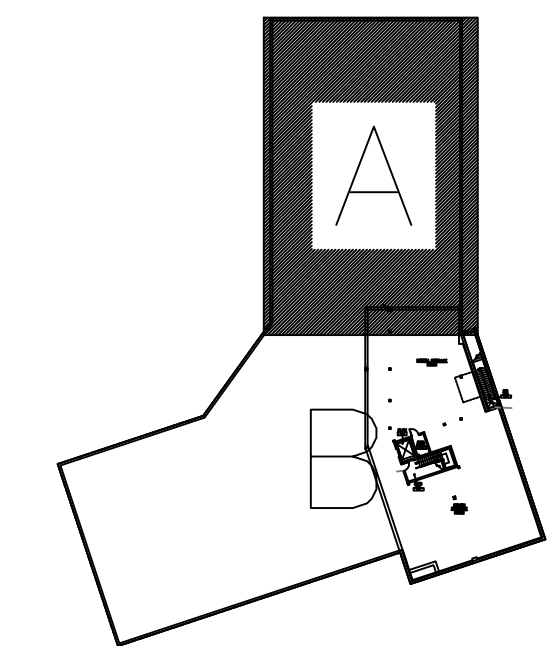
PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_G\_100

**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.



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SUPPORT SERVICES BUILDING  
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ROCKFORD, IL 61114

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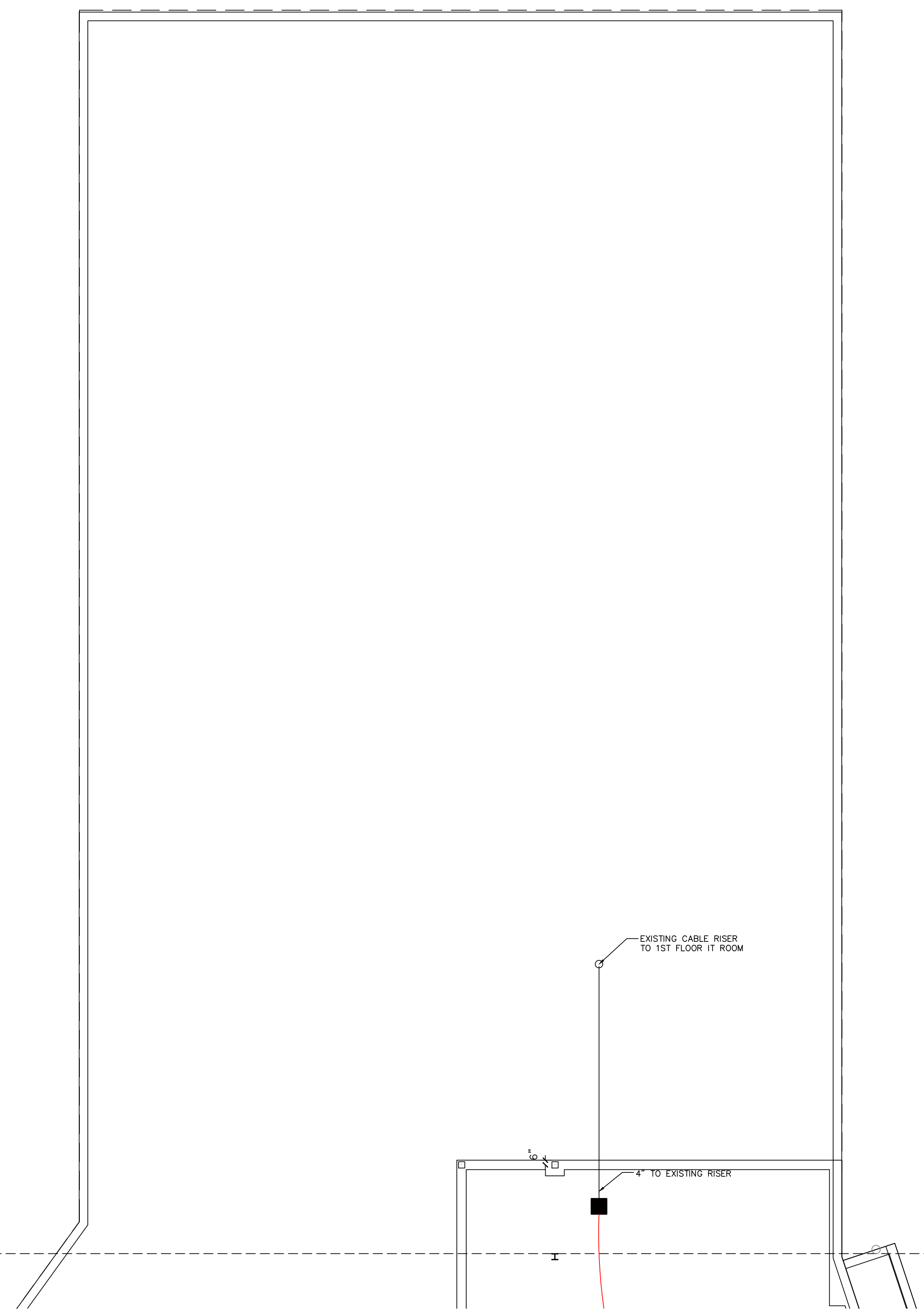
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SCALE: 1/8" = 1'-0"  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: F. MACIEL

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS  
WIRELESS LOCKS  
BASEMENT – AREA A

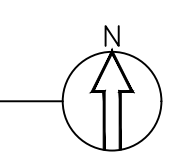
**PROJECT NUMBER:**  
GA24G3142

**SHEET NUMBER:**  
RVC\_SSB\_W\_200A



SEE G\_200B

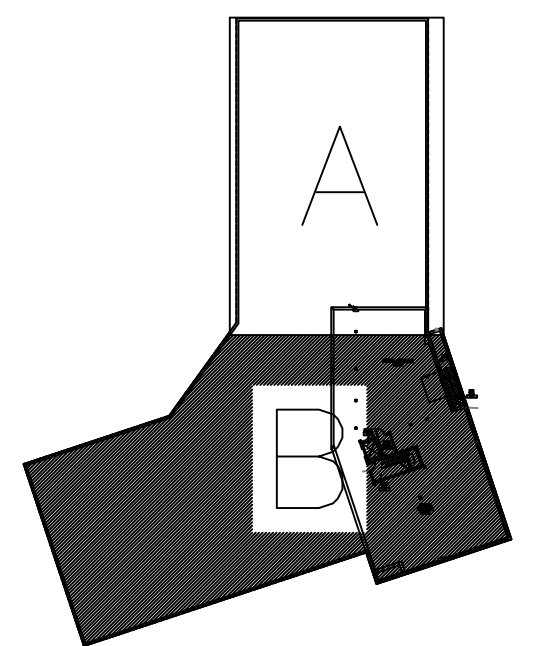
**BASEMENT – WIRELESS LOCKS – AREA A**  
**DEVICE LOCATION PLAN**  
SCALE: AS NOTED



**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**

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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

**REVISION RECORD**

REV	DESCRIPTION	BY	DATE
1			

DATE: JULY 16, 2024  
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: F. MACIEL

**PROJECT NAME:**

RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**

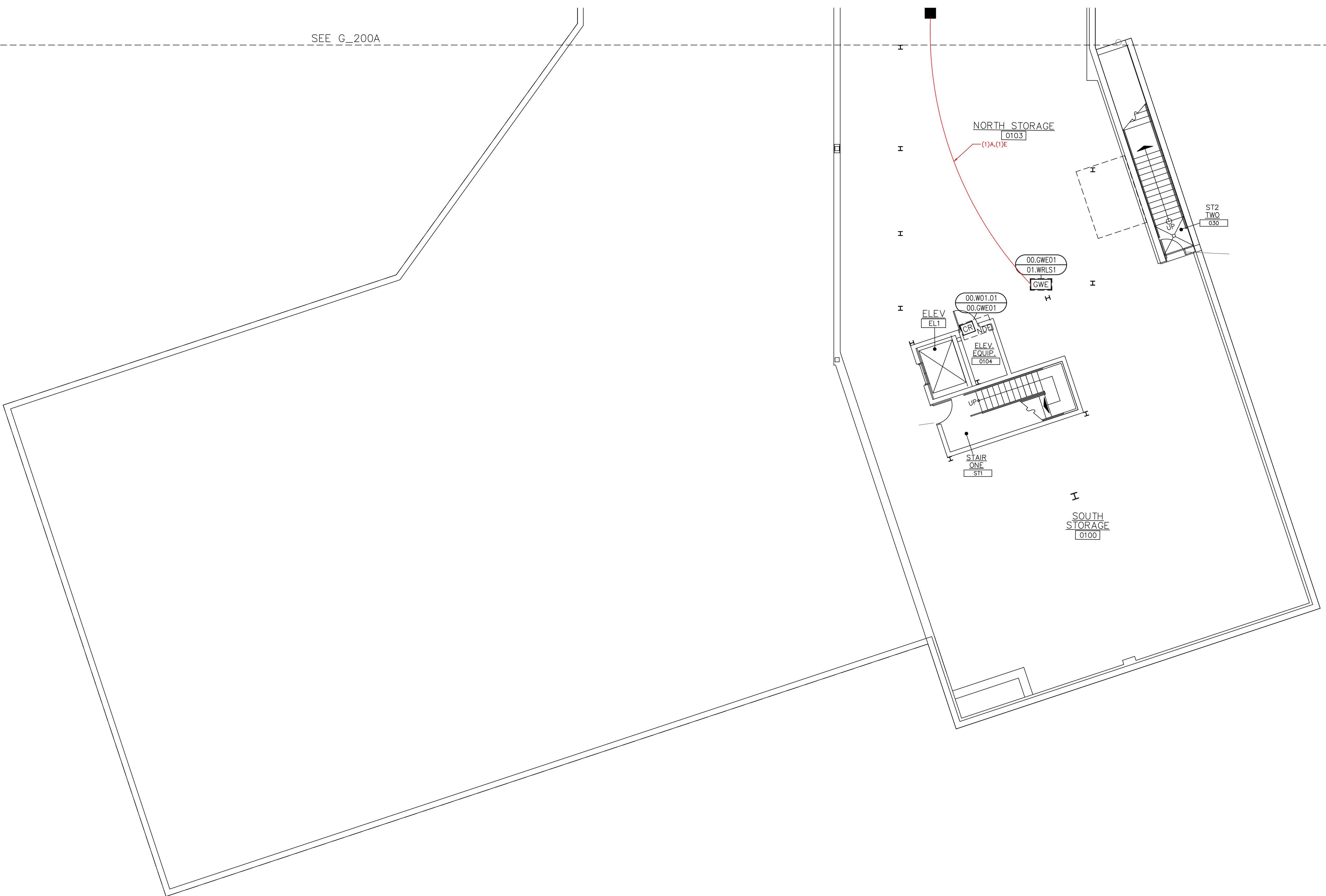
DEVICE LOCATIONS –  
WIRELESS LOCKS  
BASEMENT – AREA B

**PROJECT NUMBER:**

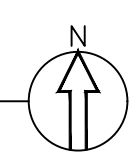
GA24G3142

**SHEET NUMBER:**

RVC\_SSB\_W\_200B



BASEMENT – WIRELESS LOCKS – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED





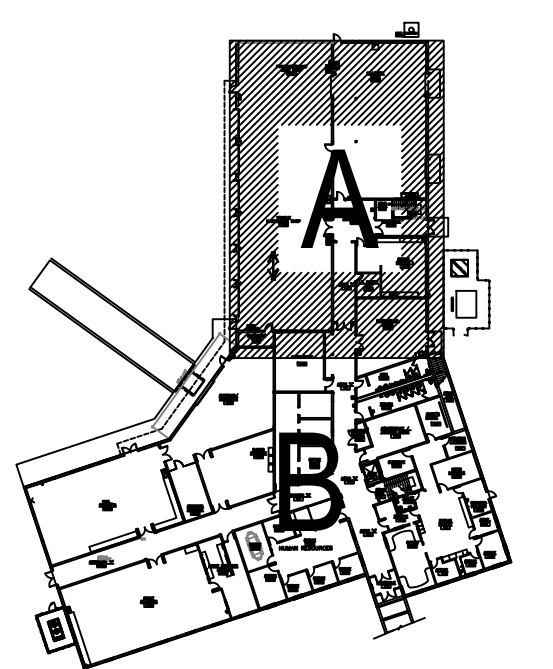
**SCOPE OF WORK:**

**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.

**KEY NOTES:**

- 1 REPLACE EXISTING AD400 BROKEN LOCK WITH A NEW NDE LOCK.



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3301 N. MULFORD  
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**REVISION RECORD**

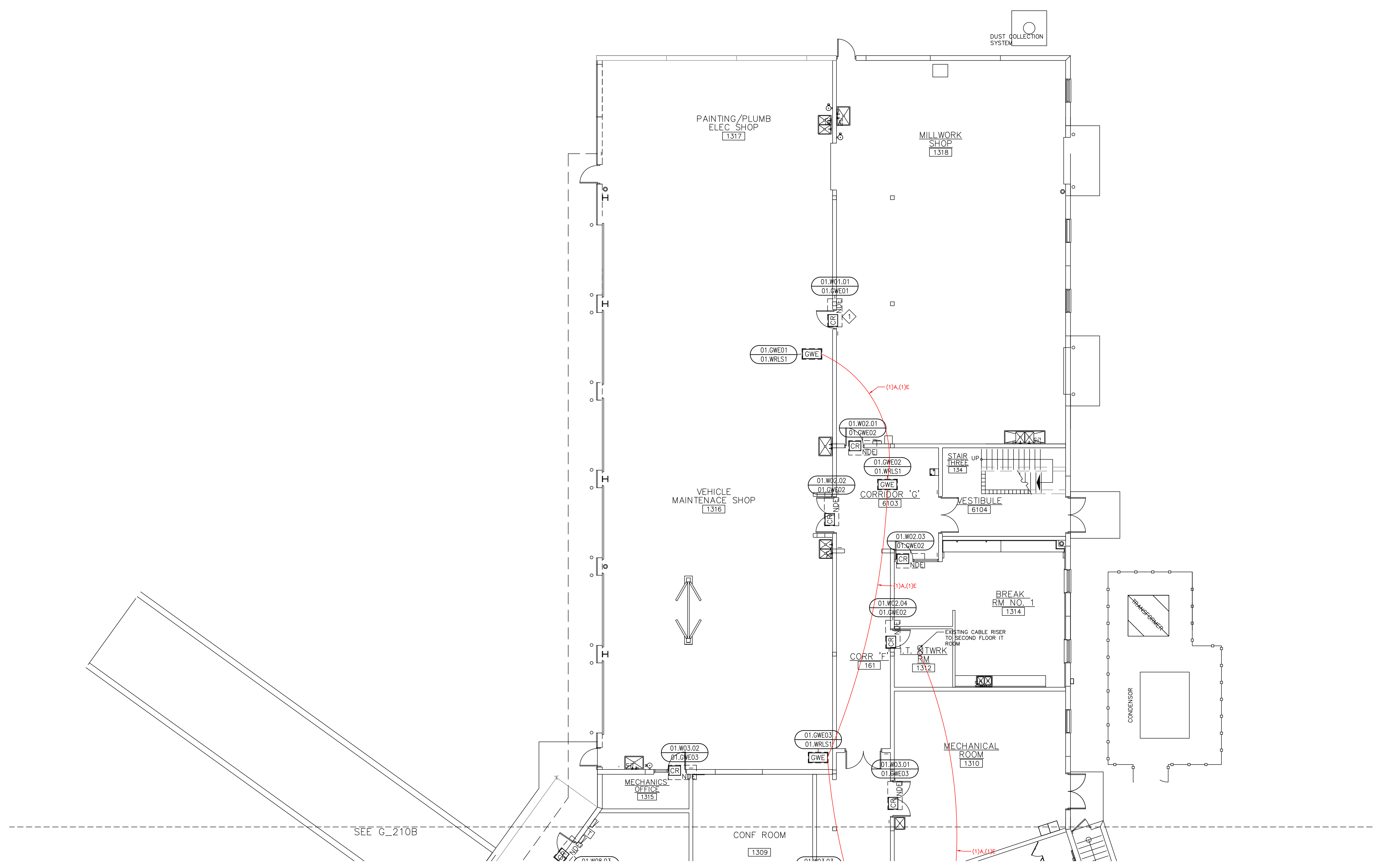
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DATE: JULY 16, 2024  
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DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS  
WIRELESS LOCKS  
FIRST FLOOR – AREA A

**PROJECT NUMBER:**  
GA24G3142  
**SHEET NUMBER:**  
RVC\_SSB\_W\_210A



1 FIRST FLOOR – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

SEE G\_210B

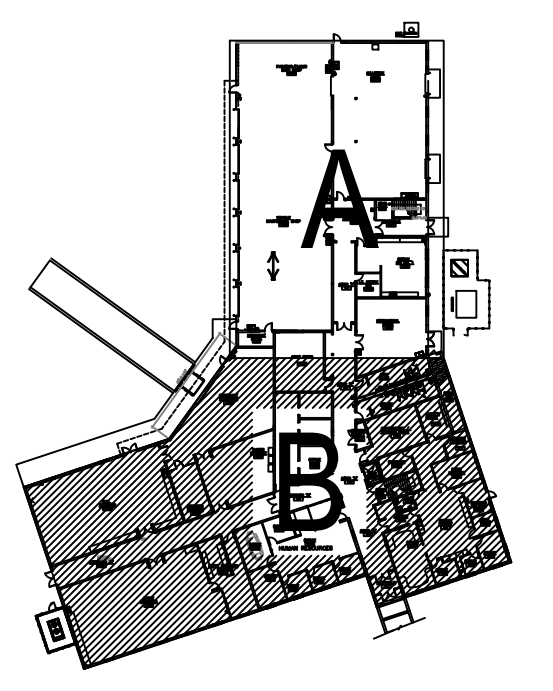
**SCOPE OF WORK:**

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.

**KEY NOTES:**

- 1 EXISTING KEYPAD AT HR AREA TO BE MOUNTED ON GINDER BLOCK WALL. ELECTRICAL TO PROVIDE BACK BOX AND WIRE MOLD. VERIFY EXACT LOCATION WITH OWNER AND INTRUSION CONTRACTOR.



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1			

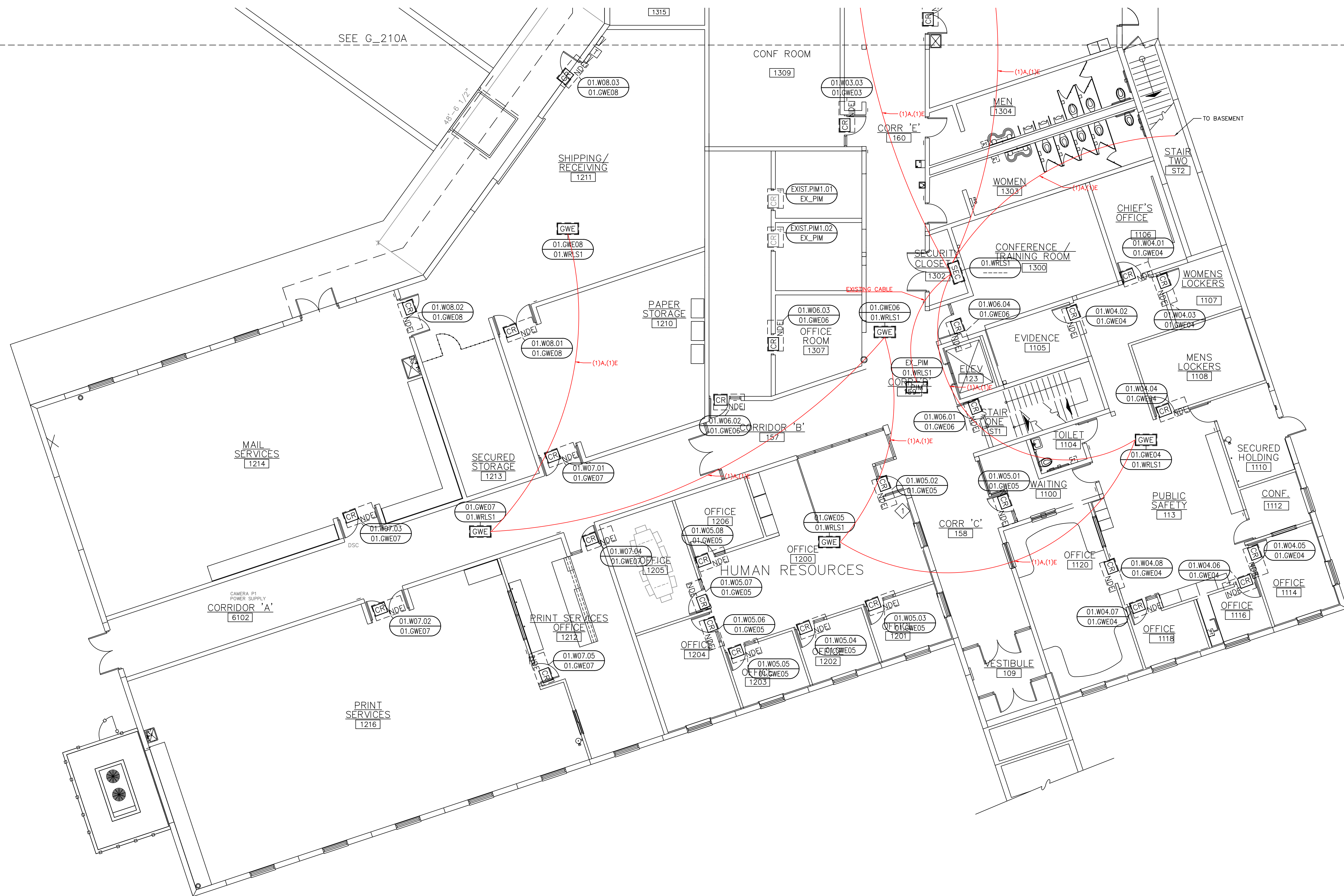
DATE: JULY 16, 2024  
SCALE: 1/8" = 1'-0"  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

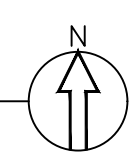
SHEET TITLE:  
DEVICE LOCATIONS –  
WIRELESS LOCKS  
FIRST FLOOR – AREA B

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_W\_210B



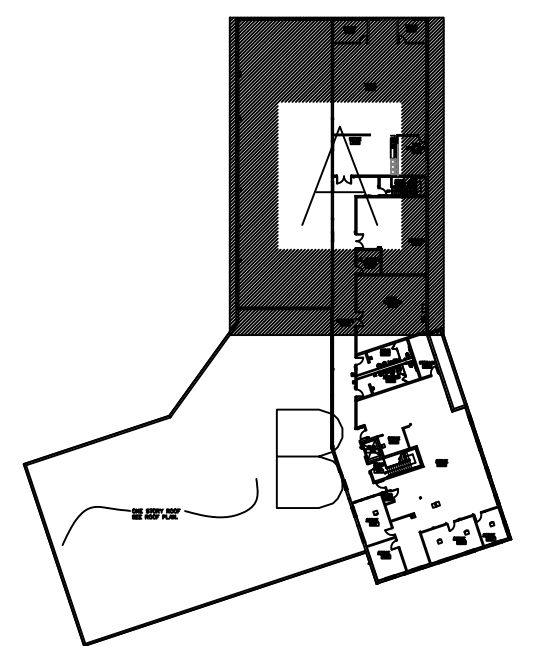
1 FIRST FLOOR – WIRELESS LOCKS – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



**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.



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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

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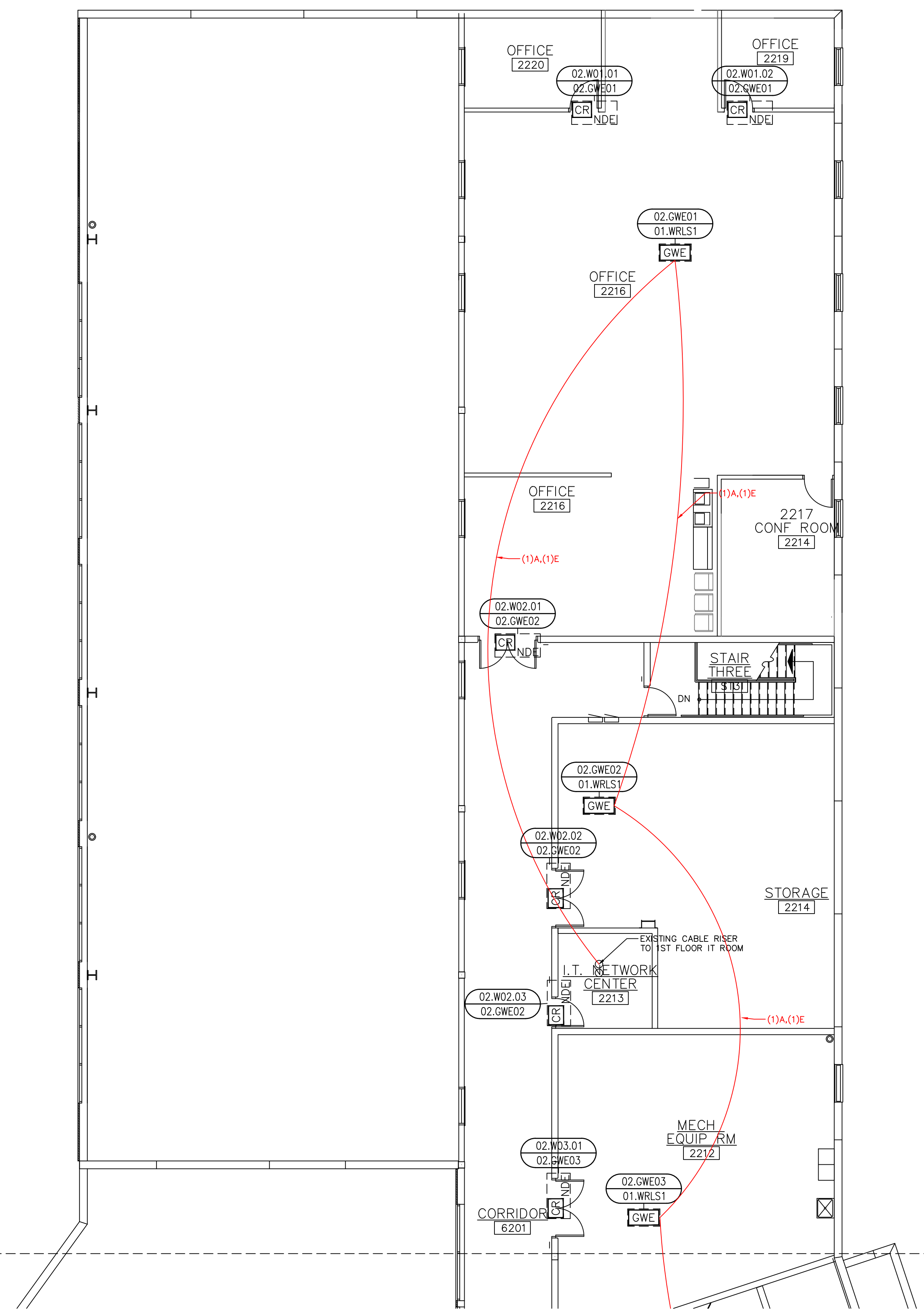
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DATE: JULY 16, 2024  
SCALE: 1/8" = 1'-0"  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS  
WIRELESS LOCKS  
SECOND FLOOR – AREA A

**PROJECT NUMBER:**  
GA24G3142  
**SHEET NUMBER:**  
RVC\_SSB\_W\_220A



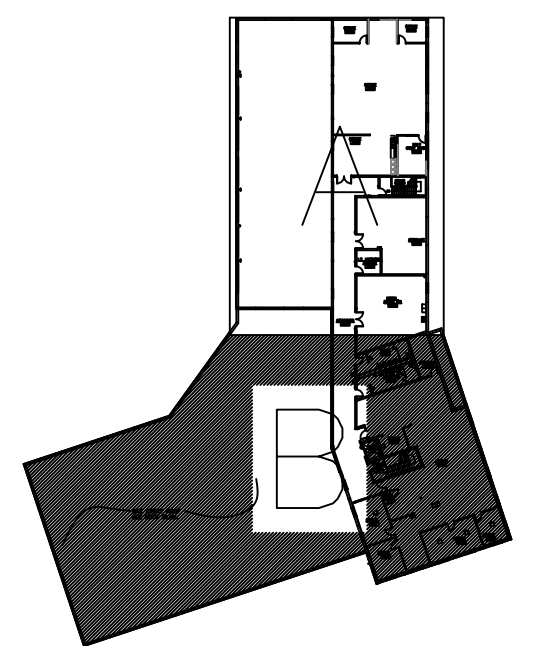
SEE G\_220B

1 SECOND FLOOR – WIRELESS LOCKS – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

**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.



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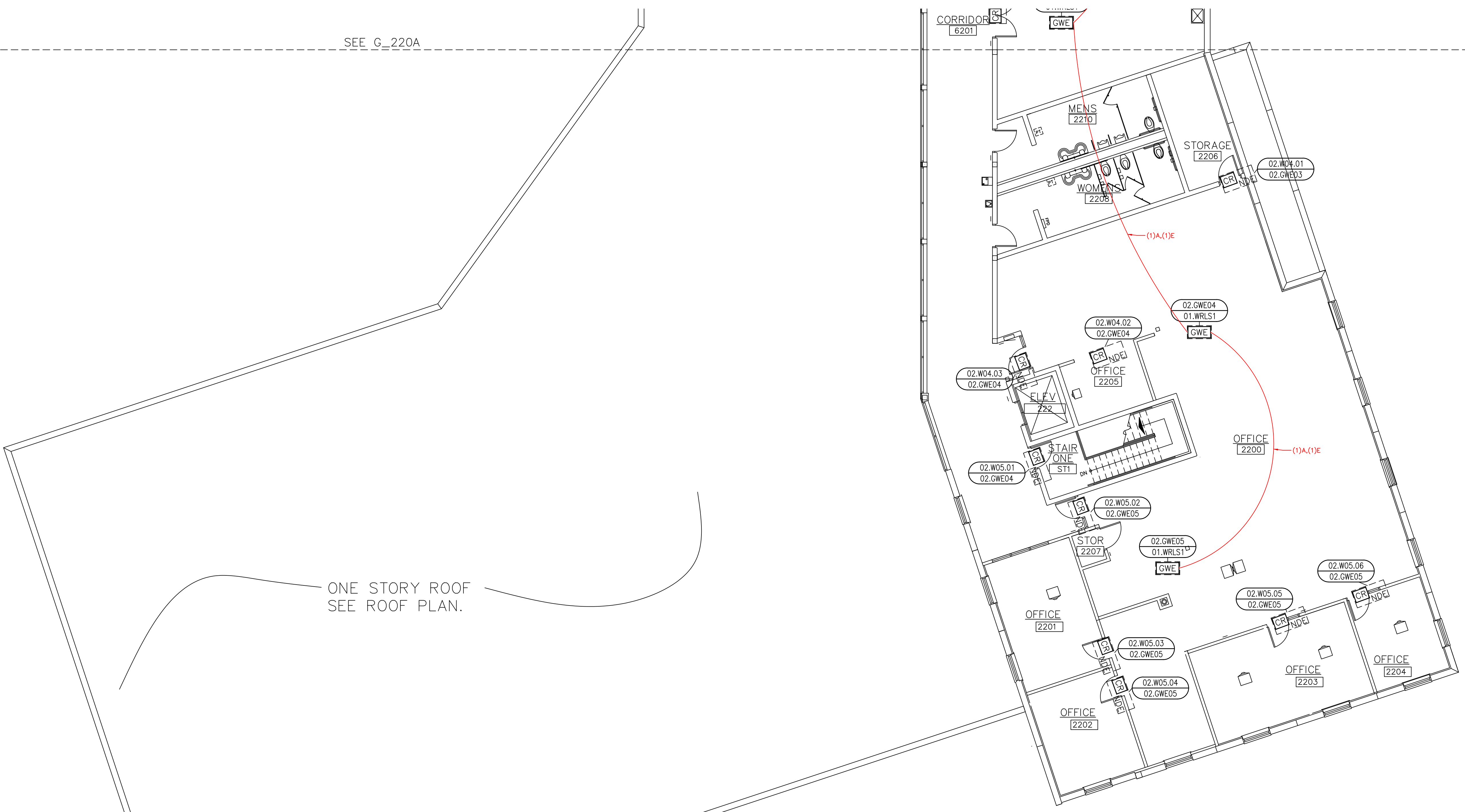
DATE: JULY 16, 2024  
SCALE: 1/8" = 1'-0"  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS –  
WIRELESS LOCKS  
SECOND FLOOR – AREA B

**PROJECT NUMBER:**  
GA24G3142

**SHEET NUMBER:**  
RVC\_SSB\_W\_220B



SEE G\_220A

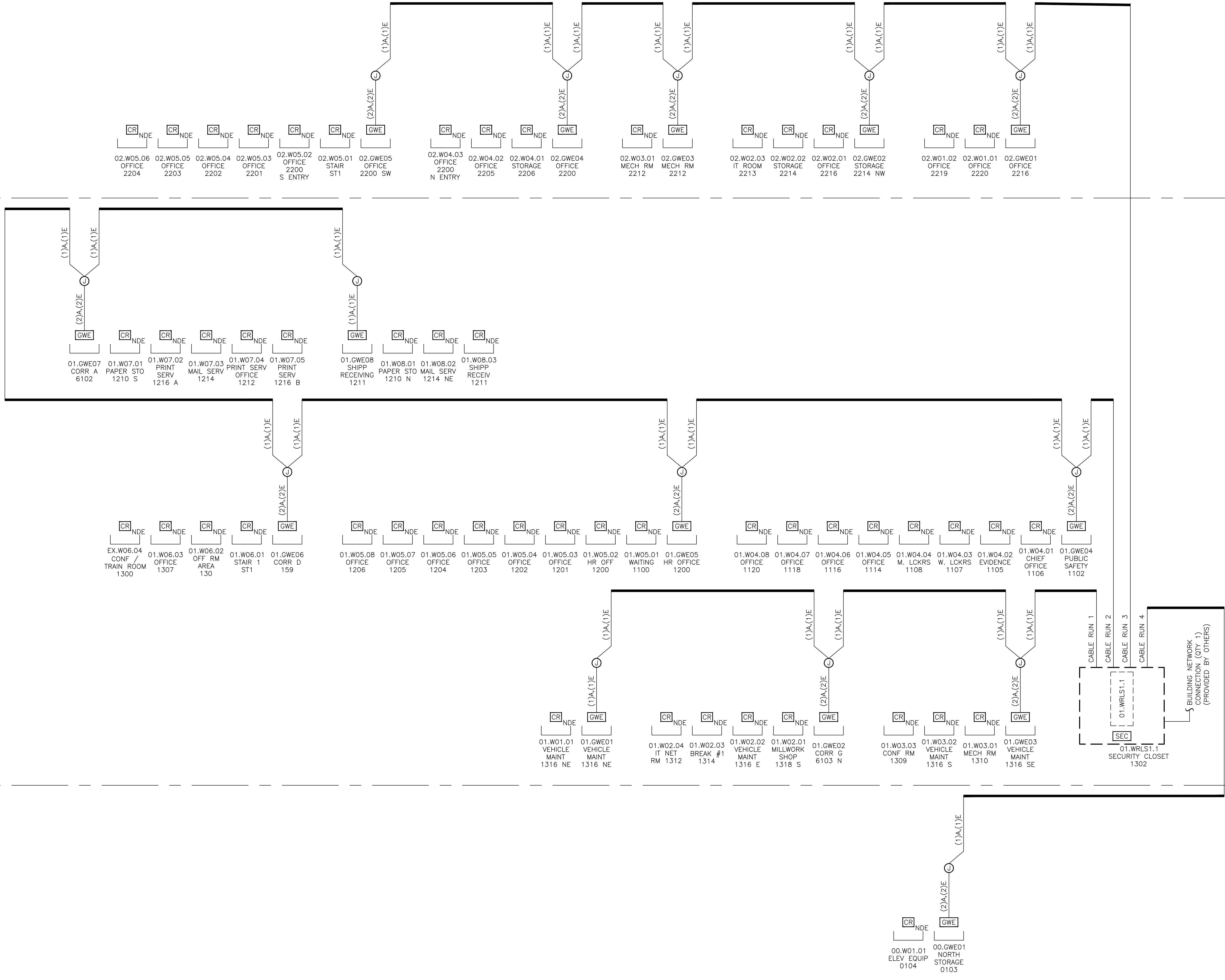
ONE STORY ROOF  
SEE ROOF PLAN.

1 SECOND FLOOR – WIRELESS LOCKS – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

2ND FLOOR

1ST FLOOR

BASEMENT



SITE NAME & ADDRESS  
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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

REVISION RECORD

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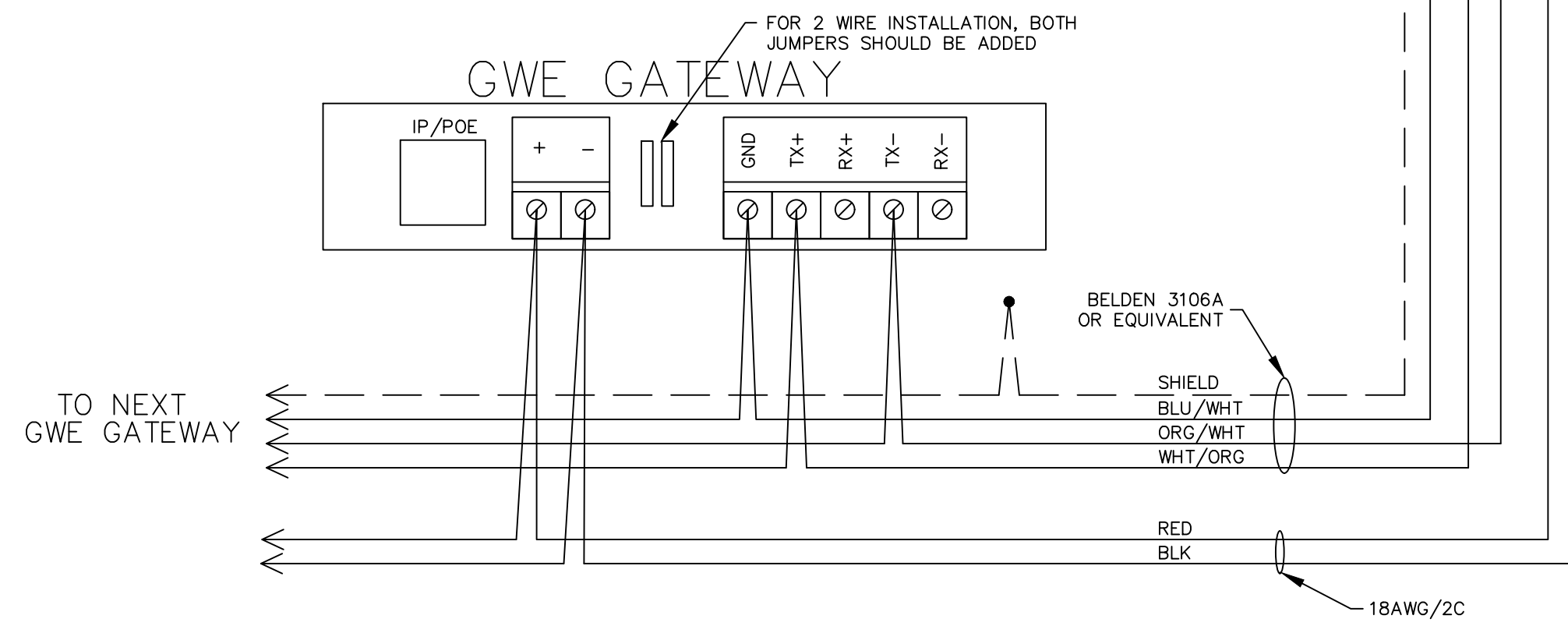
DATE: JULY 25, 2024  
SCALE: NONE  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

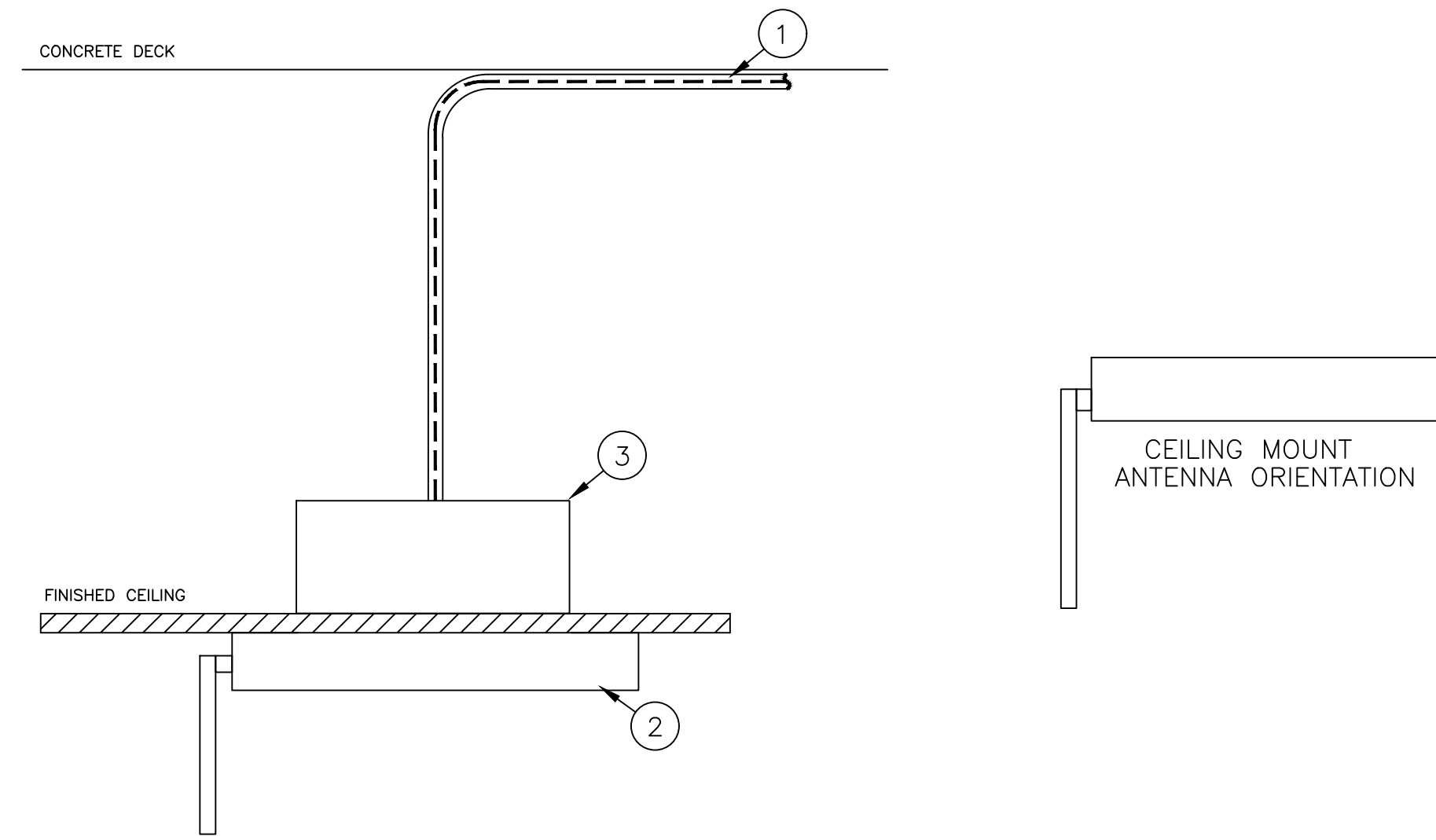
SHEET TITLE:  
WIRELESS LOCKS  
RISER DIAGRAM

PROJECT NUMBER:  
GA24G3142  
SHEET NUMBER:  
RVC\_SSB\_W\_300

FROM HEAD-END



(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

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WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

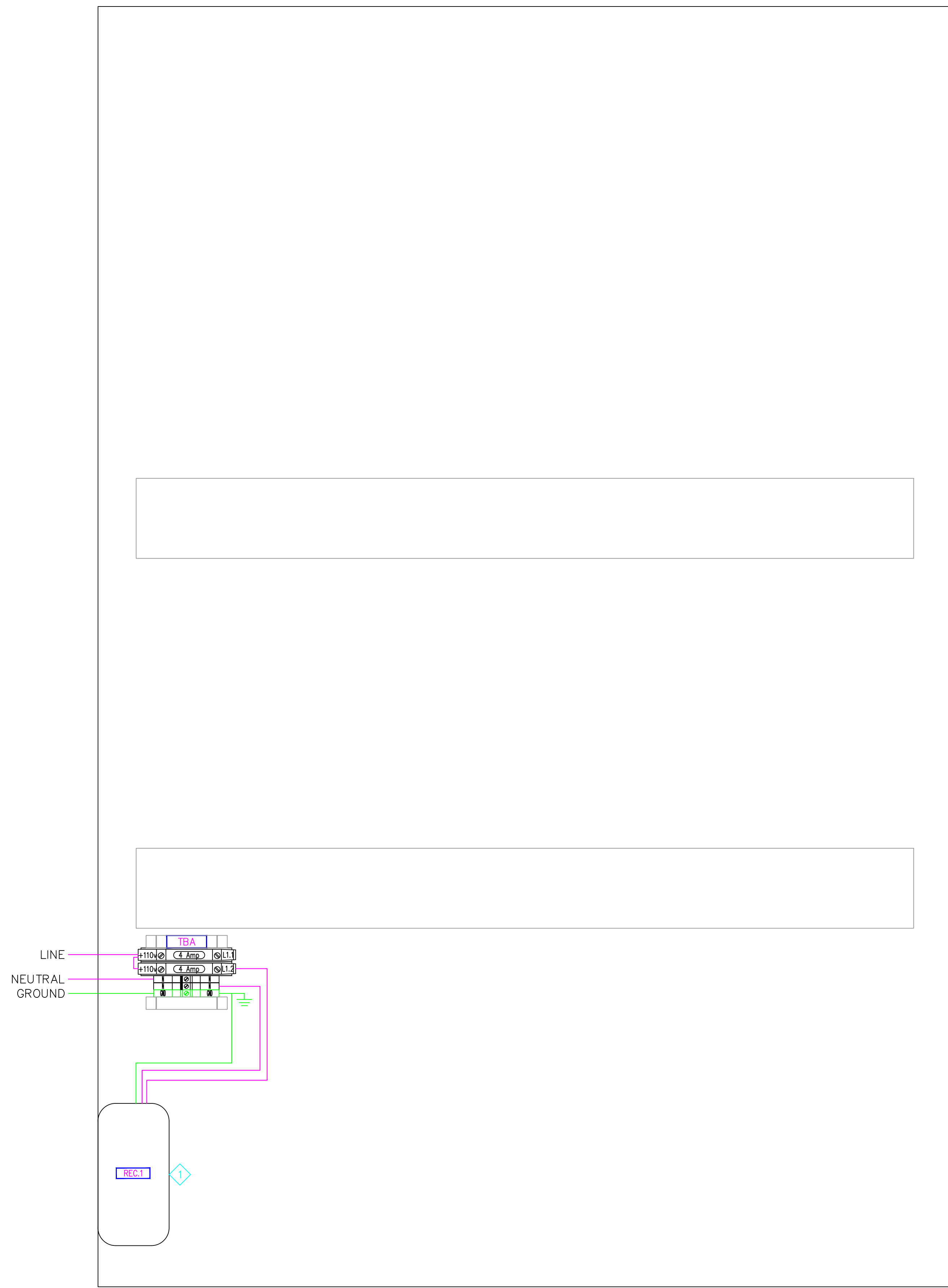
SHEET TITLE:  
WIRELESS LOCK SYSTEM  
GATEWAY TERMINATION AND MOUNTING  
DETAILS

PROJECT NUMBER:  
GA24G3142

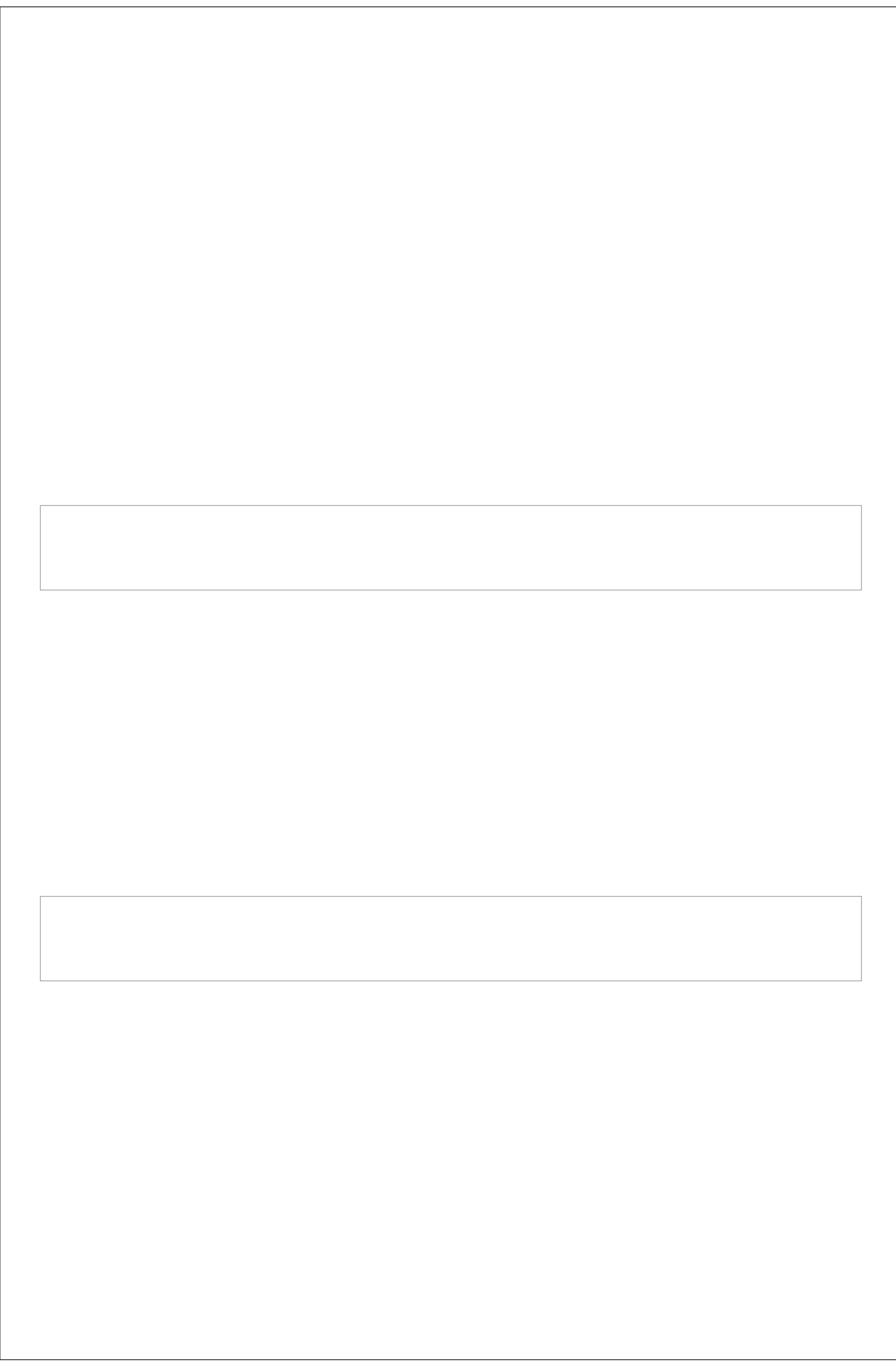
SHEET NUMBER:  
RVC\_SSB\_E\_400

**KEY NOTES:**

◇ ELECTRICAL TO PROVIDE A 4 AMP FUSED RECEPTACLE FOR THE NEW INTRUSION SYSTEM. UTILIZE EXISTING 120VAC. SEE DRAWING A\_800.



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.2  
SECURITY CLOSET 125A



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.1  
SECURITY CLOSET 125A

SITE NAME & ADDRESS

ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

REVISION RECORD

REV	DESCRIPTION	BY	DATE
1			

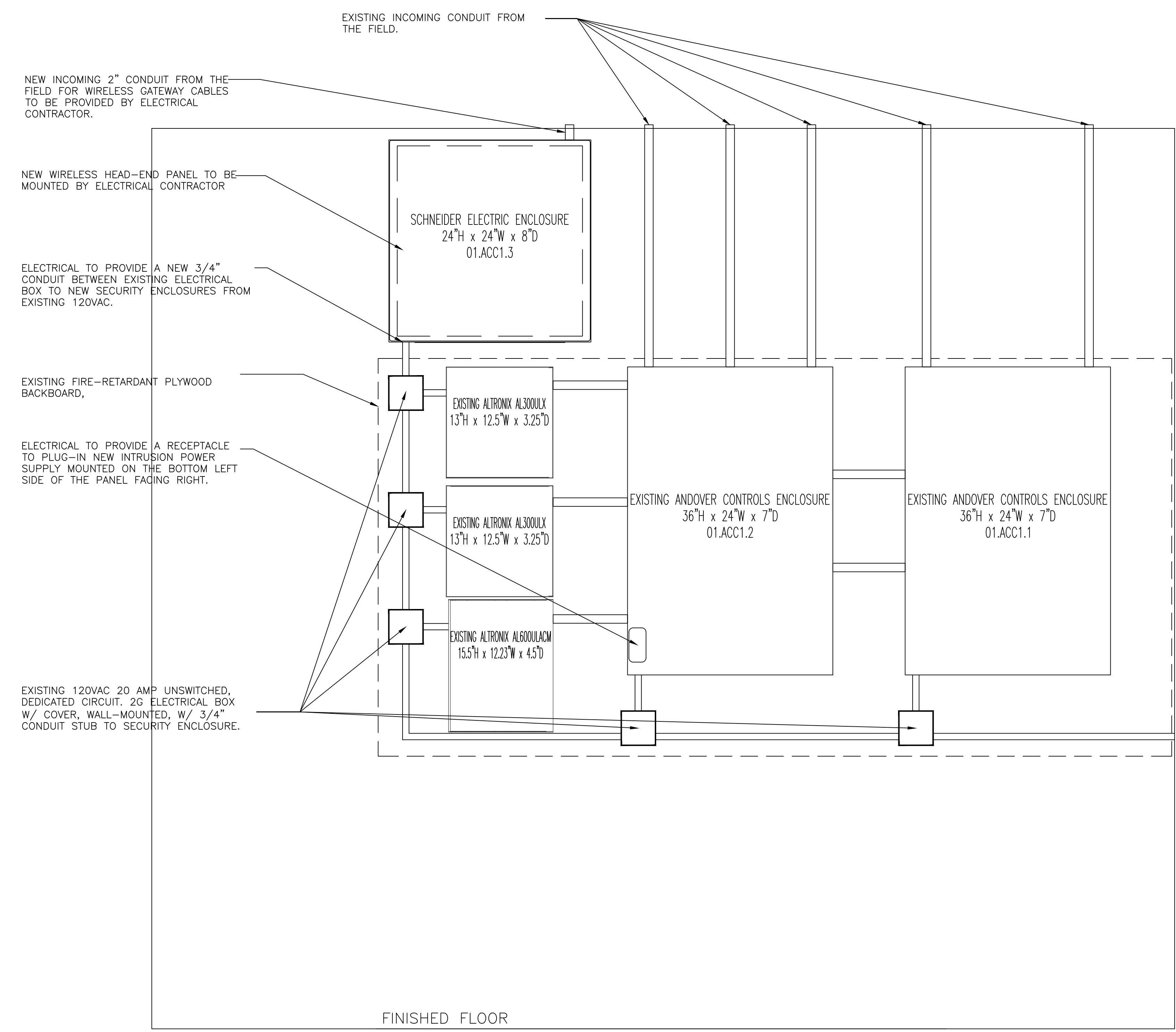
DATE: JULY 24, 2024  
SCALE: NONE  
DRAWN: A. BOLANOS  
CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC - SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
MULTI SYSTEMS  
PANEL BUILD  
DETAILS - 01.ACC1.1 &  
01.ACC1.2 - NEW WORK

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_E\_700



1 SECURITY CLOSET 125A (01.ACC1) – ACCESS CONTROL PANEL ELEVATION

SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
ACCESS CONTROL  
PANEL ELEVATIONS

PROJECT NUMBER:  
GA24G3142  
SHEET NUMBER:  
RVC\_SSB\_A\_800



# SSB - 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

SSB - Intrusion Package .....	1
Specifications .....	3
Specifications.pdf .....	4
Drawings set.....	9
Drawing set.pdf .....	10
Points List .....	19
Intrusion Points List.pdf .....	20

# 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.
- C.

### 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 drawing 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.

# 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), and wiring details (W\_400).

### 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 will provide 18AWG/4C for the new keypad (01.B30) and 18AWG/2C for the new door contact (01.B44) in the HR area. The intrusion contractor will provide the keypad and door contacts.
- B. The keypad will be mounted on a cinder block wall. The electrical contractor will provide the wire mold and back box.

**1. Head-End:**

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

## Intrusion system

### 1. Field Devices:

- A. Demo and replace existing Intrusion field devices with new Bosch intrusion devices.
- B. Replace any intrusion-supervised EOL resistors and install them by the field device if installed at the head-end.
- C. Provide EN4204R and four EN1235F for the new wireless panic buttons in the office area. See drawing B\_210B
- D. Provide a new D.P.D.T door contact and a ceiling mount motion sensor for the human resources area. See drawing B\_210B.

### 2. Head-End:

- A. Utilize the new in-cab 4 Amp fused receptacle for intrusion power supply.
- B. 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.
- C. Utilize the new in-cab 4 Amp fused receptacle for intrusion power supply.
- D. Provide and install CAT6 plenum-rated cable from Bosch B8512G to the nearest RVC network switch for communication.
- E.

### 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.

## **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 SUPPORT SERVICES BUILDING

3301 N. MULFORD  
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_SSB_B_001	1	ISSUED FOR REVIEW	07/26/24	TITLE SHEET & TABLE OF CONTENTS
RVC_SSB_G_100	1	ISSUED FOR REVIEW	07/26/24	SYMBOL LEGEND & GENERAL NOTES
RVC_SSB_B_200B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - INTRUSION SYSTEM - BASEMENT - AREA B
RVC_SSB_B_210A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - INTRUSION SYSTEM - FIRST FLOOR - AREA A
RVC_SSB_B_210B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - INTRUSION SYSTEM - FIRST FLOOR - AREA B
RVC_SSB_B_220A	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - INTRUSION SYSTEM - SECOND FLOOR - AREA A
RVC_SSB_B_220B	1	ISSUED FOR REVIEW	07/26/24	DEVICE LOCATIONS - INTRUSION SYSTEM - SECOND FLOOR - AREA B
RVC_SSB_A_700_DEMO	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - DEMO
RVC_SSB_B_700	1	ISSUED FOR REVIEW	07/26/24	ACCESS CONTROL PANEL BUILD DETAILS - 01.ACC1.1 & 01.ACC1.2 - NEW WORK



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### SITE NAME & ADDRESS

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ROCKFORD, IL 61114

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

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM




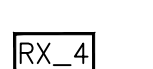




SHEET TITLE:  
TITLE SHEET &  
TABLE OF CONTENTS

PROJECT NUMBER:  
GA24G3142  
SHEET NUMBER:  
RVC\_SSB\_B\_001

**ACCESS CONTROL SYSTEM DEVICE LEGEND:**

-  NDE SCHLAGE WIRELESS LOCK W/ BUILT-IN REQUEST TO EXIT, DOOR STATUS LOCK STATUS
-  GWE GATEWAY
-  SECURITY SYSTEM CABINET
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  REQUEST-TO-EXIT MOTION SENSOR
-  CARD READER, PROXIMITY, WALL-MOUNT
-  ELECTRIC LOCKING HARDWARE
-  ELECTRIC LOCKING HARDWARE W/ BUILT-IN REX SWITCH
-  EXISTING AD-400 WIRELESS LOCKS
-  EXISTING WIRELESS PIM RECEIVER

**INTRUSION SYSTEM DEVICE LEGEND:**

-  INTRUSION KEY PAD
-  CEILING-MOUNTED MOTION SENSOR
-  PANIC BUTTON/DURESS BUTTON
-  INOVONICS EN4240R RECEIVER W/ FOUR RELAYS
-  EXISTING DOOR CONTACT
-  OVERHEAD DOOR SURFACE MOUNT DOOR CONTACT
-  AED CABINET DOOR CONTACT
-  RECESSED MAGNETIC DOOR CONTACT IN DOOR FRAME/HEADER

**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.


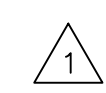
NOTE 1: TABLE DEVELOPED FOR STEEL OR ALUMINUM ALLOY CONDUIT ONLY.

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



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SITE NAME & ADDRESS

ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:

SYMBOL LEGEND &  
GENERAL NOTES

PROJECT NUMBER:

GA24G3142

SHEET NUMBER:

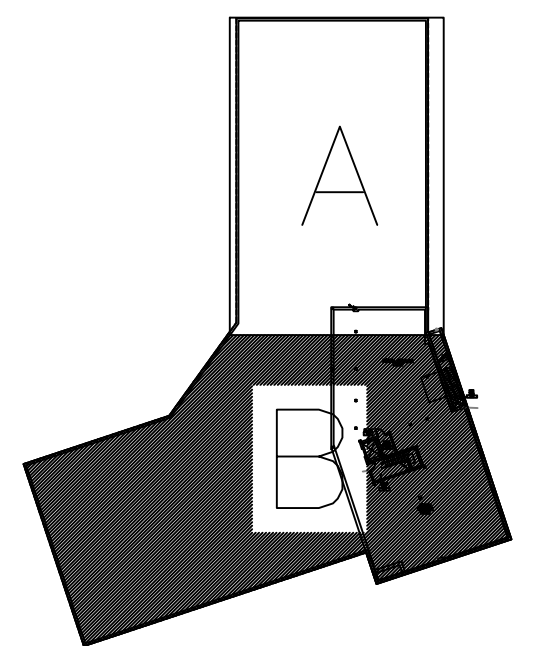
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**GENERAL NOTES:**

UPGRADE EXISTING INTRUSION HEAD-END SYSTEM.  
UTILIZED EXISTING DEVICES AND CABLING.

**BUILDING PARTITIONS:**

— PARTITION 8



**SITE NAME & ADDRESS**

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SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
ROCKFORD, IL 61114

**REVISION RECORD**

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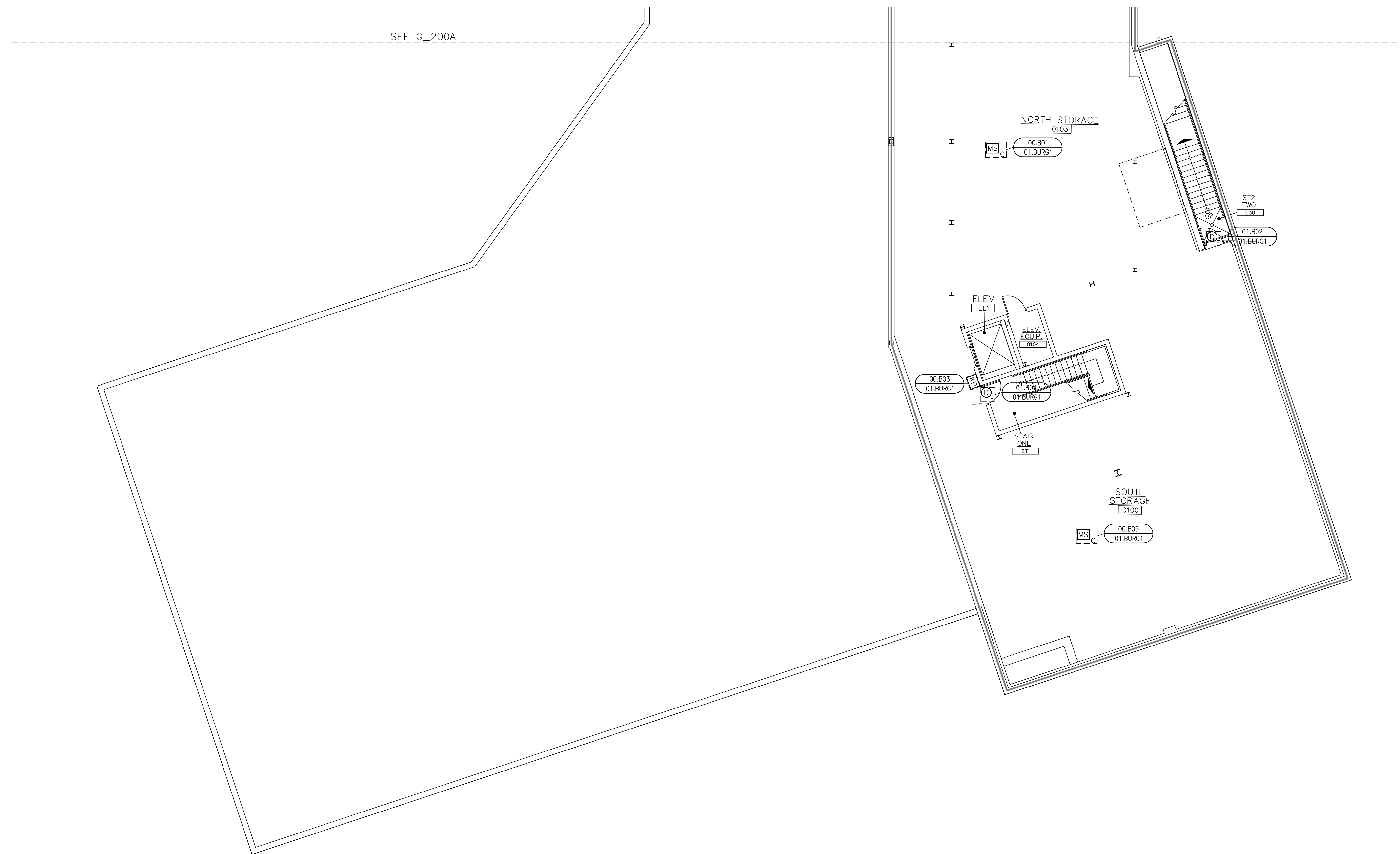
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CHECKED: A. BOLANOS  
APPROVED: F. MACIEL

**PROJECT NAME:**  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**  
DEVICE LOCATIONS –  
INTRUSION SYSTEM  
BASEMENT – AREA B

**PROJECT NUMBER:**  
GA24G3142

**SHEET NUMBER:**  
RVC\_SSB\_B\_200B



**BASEMENT – INTRUSION SYSTEM – AREA B**  
**DEVICE LOCATION PLAN**  
SCALE: AS NOTED

**GENERAL NOTES:**

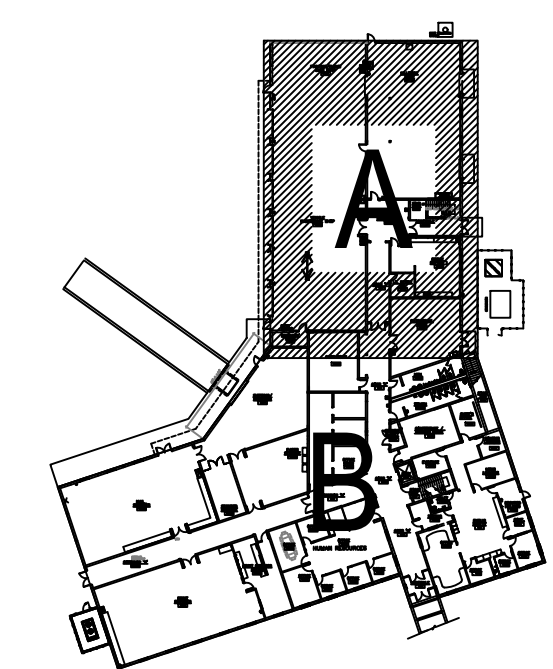
UPGRADE EXISTING INTRUSION HEAD-END SYSTEM.  
INTRUSION CONTRACTOR TO REPLACE EXISTING SENSORS AND RESISTORS IF NEEDED. VERIFY FIELD RESISTOR TO BE 1K OHM.

**KEY NOTES:**

◊ EXISTING MECHANICAL ROOM 1310 DOOR CONTACTS TO BE WIRED FROM THE EXISTING INTRUSION SYSTEM INTO THE NEW ACCESS CONTROL SYSTEM. UTILIZED EXISTING CABLE.

**BUILDING PARTITIONS:**

- PARTITION 1
- PARTITION 2
- PARTITION 3



SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
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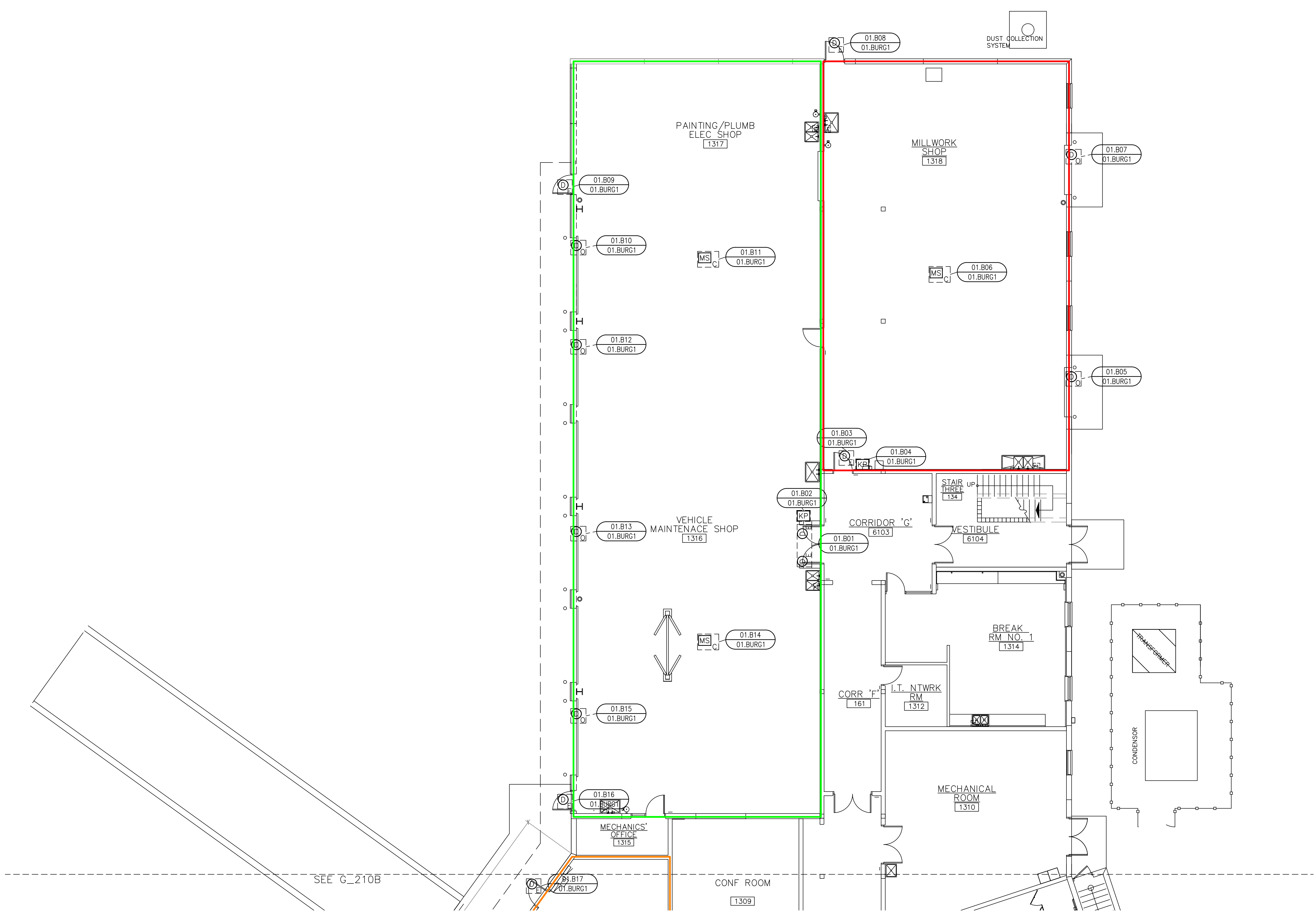
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APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
DEVICE LOCATIONS  
INTRUSION SYSTEM  
FIRST FLOOR – AREA A

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_B\_210A



1 FIRST FLOOR – INTRUSION SYSTEM – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

**GENERAL NOTES:**

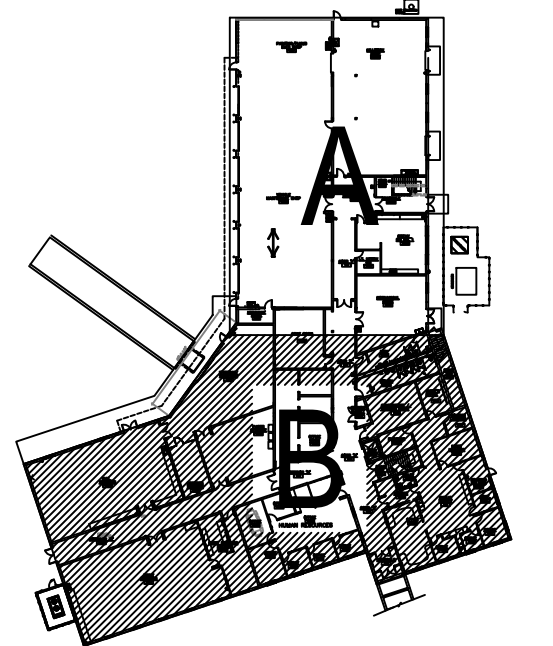
UPGRADE EXISTING INTRUSION HEAD-END SYSTEM.  
INTRUSION CONTRACTOR TO REPLACE EXISTING SENSORS AND RESISTORS IF NEEDED. VERIFY FIELD RESISTOR TO BE 1K OHM.

**KEY NOTES:**

- 1 INTRUSION CONTRACTOR TO PROVIDE A NEW EN4204R RECEIVER FOR THE FOUR 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. INTRUSION CONTRACTOR TO PULL (3)18/4 & (1)18/2 FROM THE HEAD-END TO THE WIRELESS RECEIVER.
- 2 ADD A NEW CEILING MOUNT MOTION, RECESSED MOUNT DOOR CONTACT TO OFFICE 1200. INTRUSION CONTRACTOR TO PULL (1)18/4, (1)18/2 FOR THE NEW DEVICES.
- 3 EXISTING KEYPAD AT HR AREA TO BE MOUNTED ON CINDER BLOCK WALL. ELECTRICAL TO PROVIDE BACK BOX AND WIRE MOLD.

**BUILDING PARTITIONS:**

- PARTITION 3
- PARTITION 4
- PARTITION 5



SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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REVISION RECORD

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1			

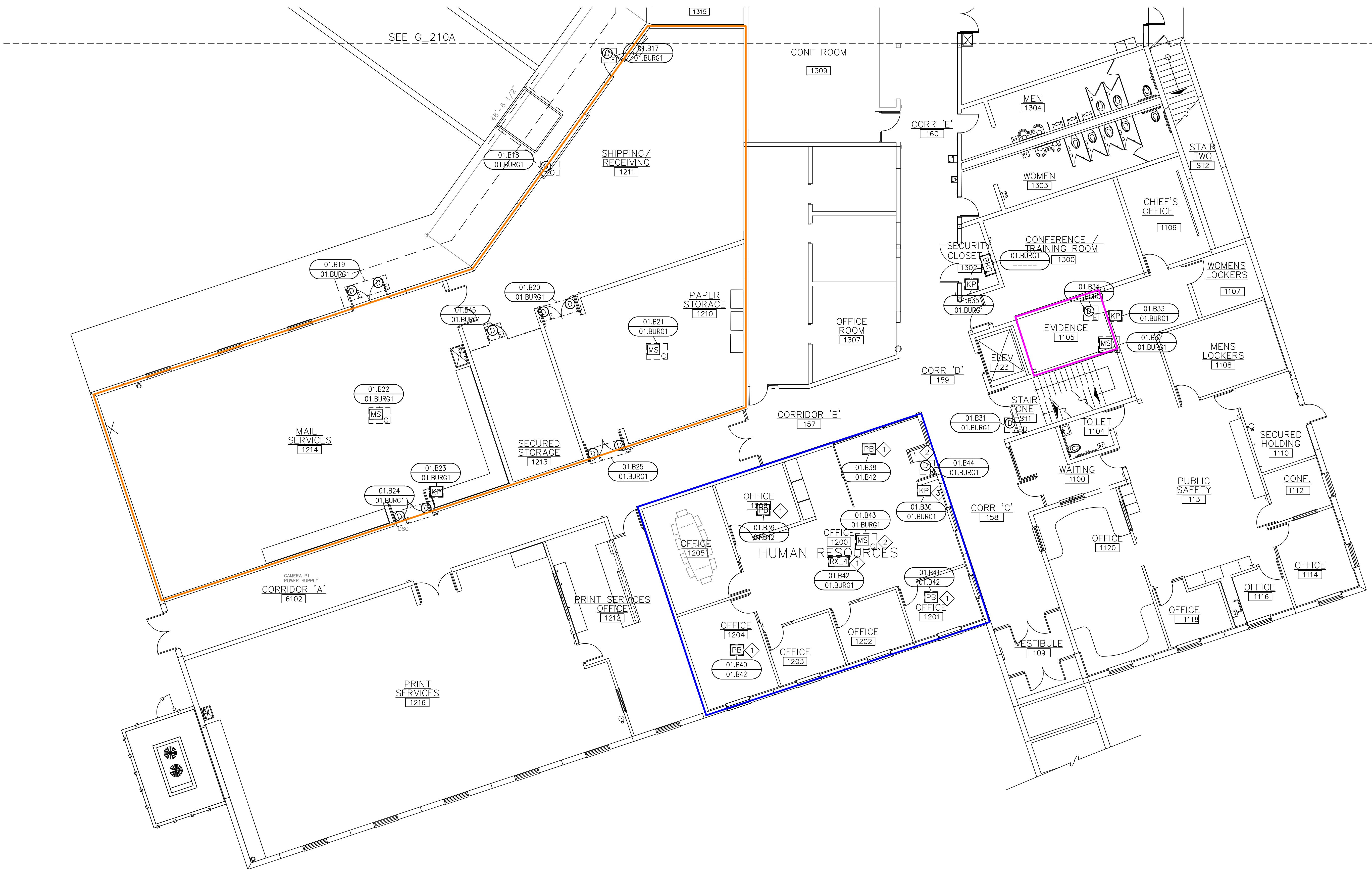
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CHECKED: A. BOLANOS  
APPROVED: A. GAGE

PROJECT NAME:  
RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

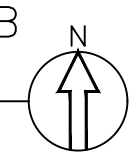
SHEET TITLE:  
DEVICE LOCATIONS –  
INTRUSION SYSTEM  
FIRST FLOOR – AREA B

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_B\_210B



FIRST FLOOR – INTRUSION SYSTEM – AREA B  
1 DEVICE LOCATION PLAN  
SCALE: AS NOTED

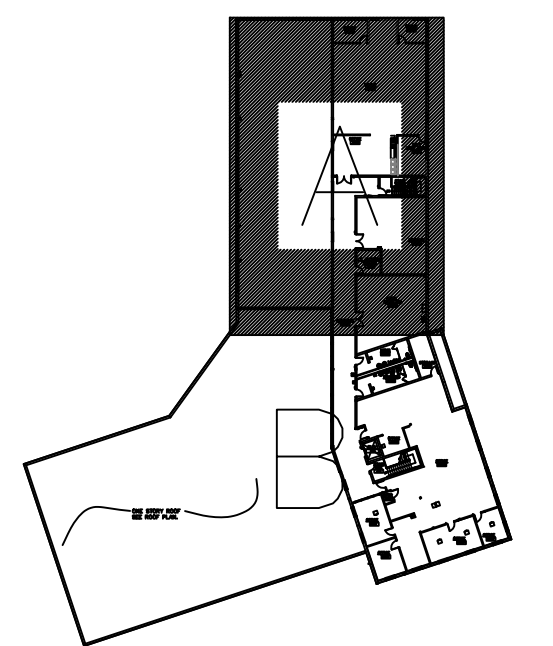


**GENERAL NOTES:**

UPGRADE EXISTING INTRUSION HEAD-END SYSTEM.  
UTILIZED EXISTING DEVICES AND CABLING.

**BUILDING PARTITIONS:**

- PARTITION 6
- PARTITION 7



**SITE NAME & ADDRESS**

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CHECKED: A. BOLANOS  
APPROVED: A. GAGE

**PROJECT NAME:**

RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**

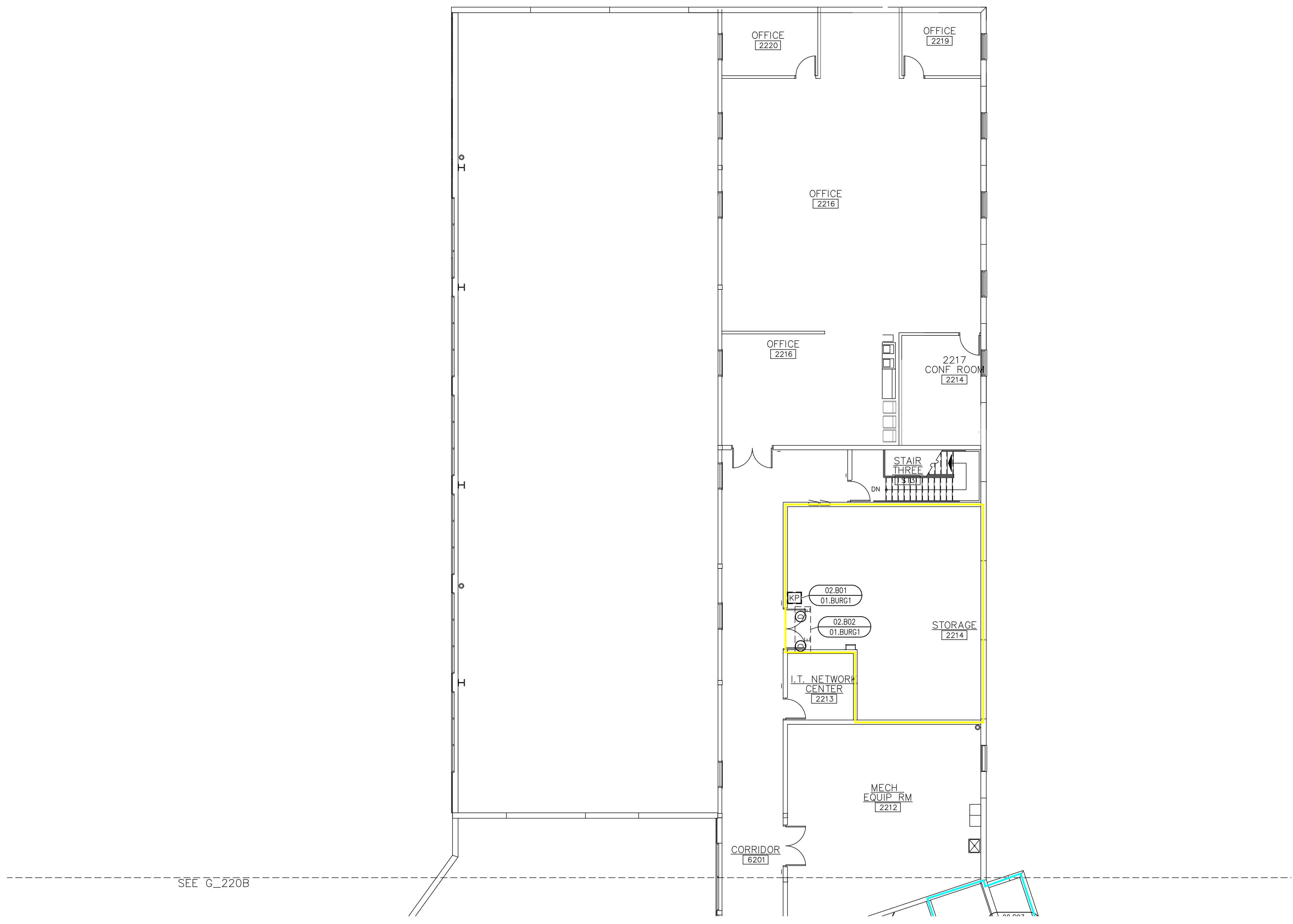
DEVICE LOCATIONS  
INTRUSION SYSTEM  
SECOND FLOOR – AREA A

**PROJECT NUMBER:**

GA24G3142

**SHEET NUMBER:**

RVC\_SSB\_B\_220A



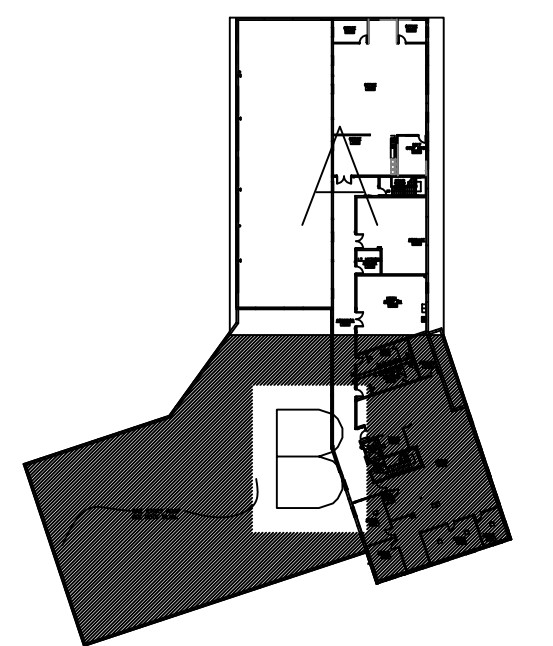
① SECOND FLOOR – INTRUSION SYSTEM – AREA A  
DEVICE LOCATION PLAN  
SCALE: AS NOTED

**GENERAL NOTES:**

UPGRADE EXISTING INTRUSION HEAD-END SYSTEM.  
UTILIZED EXISTING DEVICES AND CABLING.

**BUILDING PARTITIONS:**

- PARTITION 6
- PARTITION 7



**SITE NAME & ADDRESS**

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APPROVED: A. GAGE

**PROJECT NAME:**

RVC – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

**SHEET TITLE:**

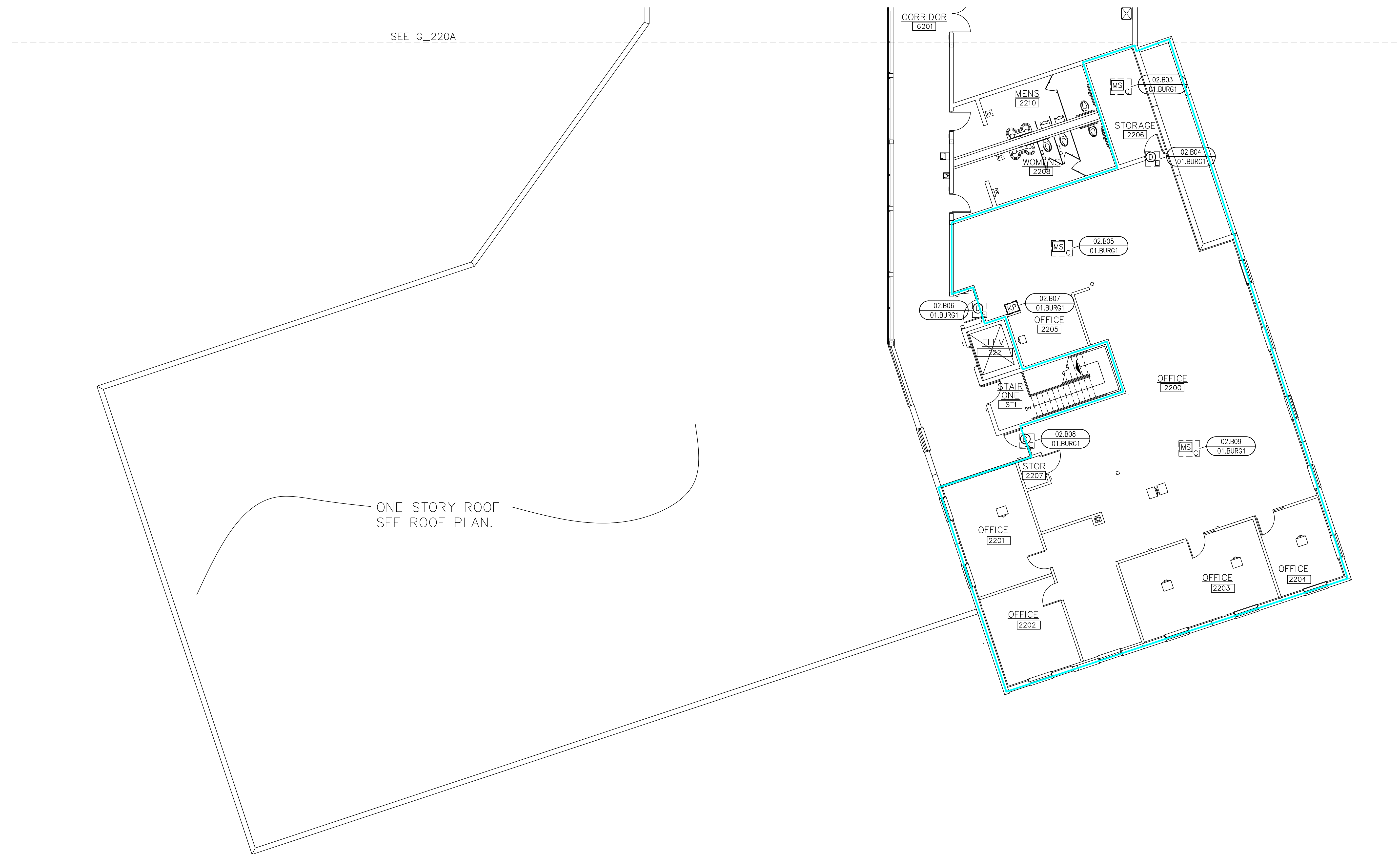
DEVICE LOCATIONS –  
INTRUSION SYSTEM  
SECOND FLOOR – AREA B

**PROJECT NUMBER:**

GA24G3142

**SHEET NUMBER:**

RVC\_SSB\_B\_220B

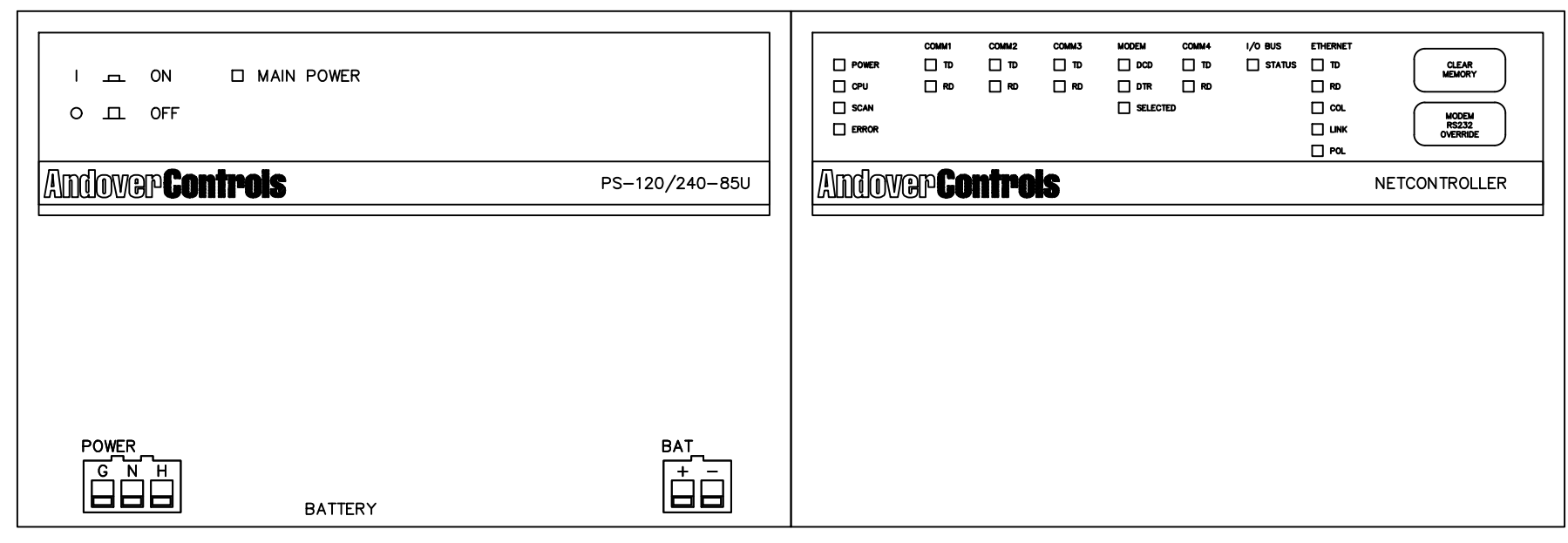
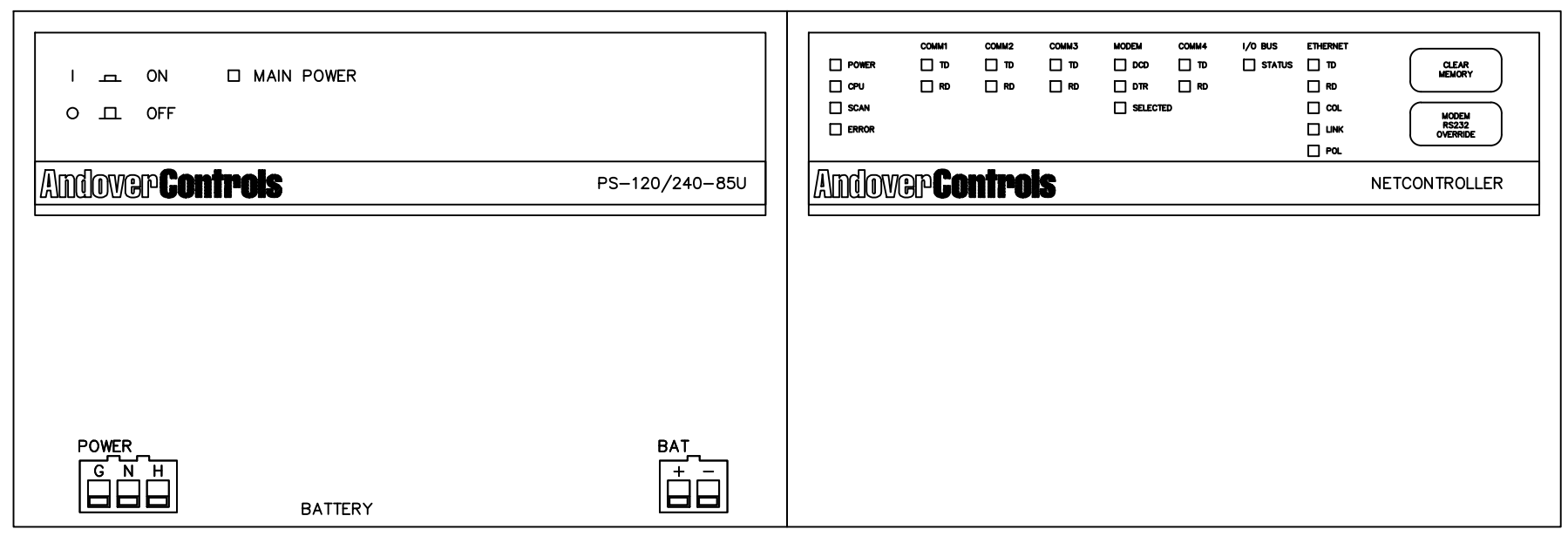
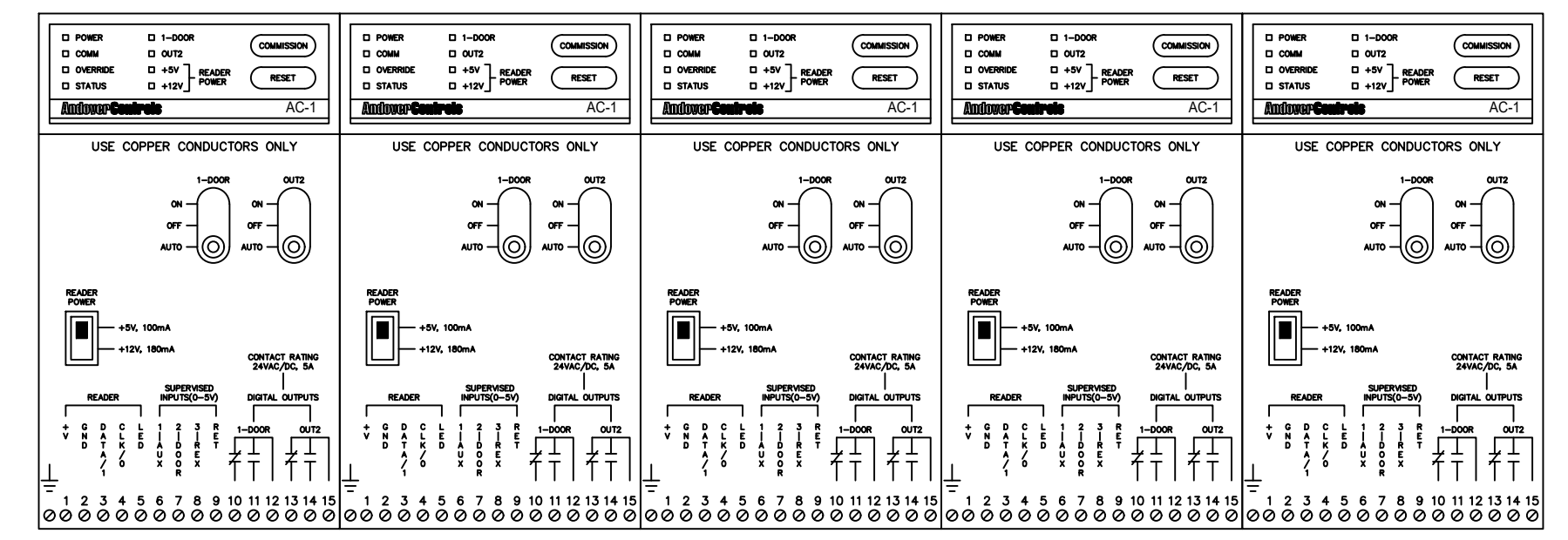
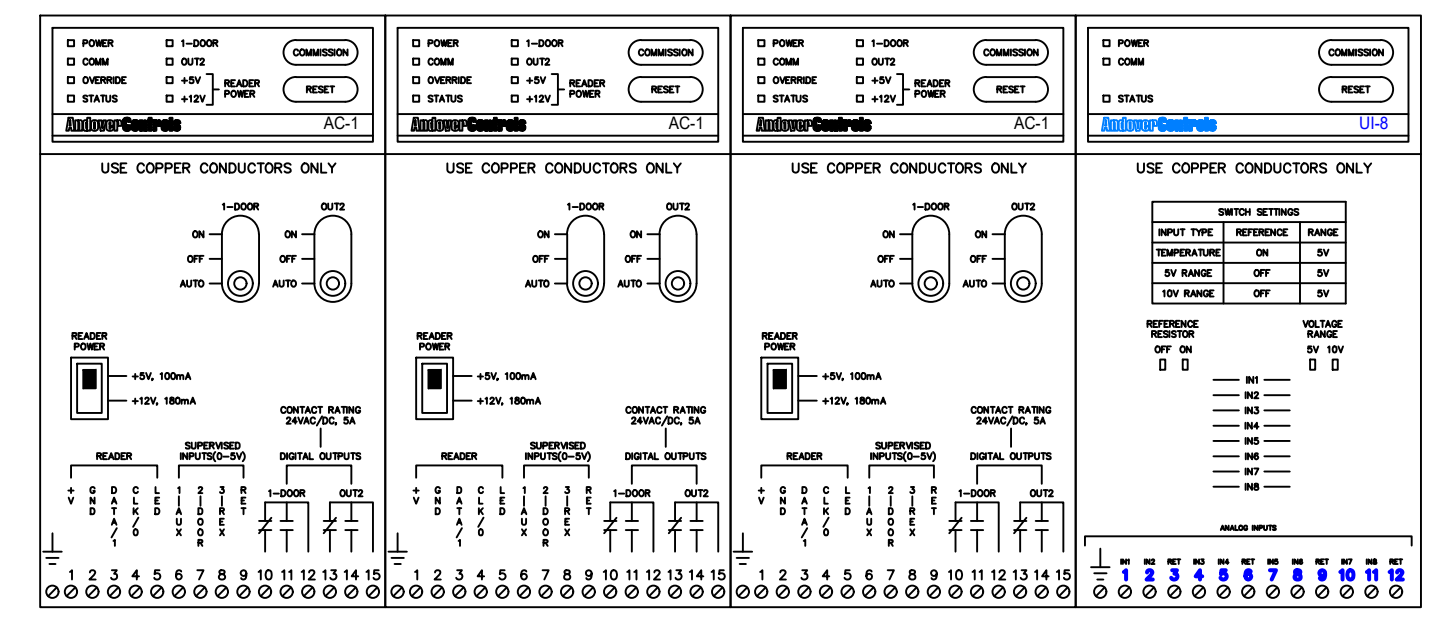
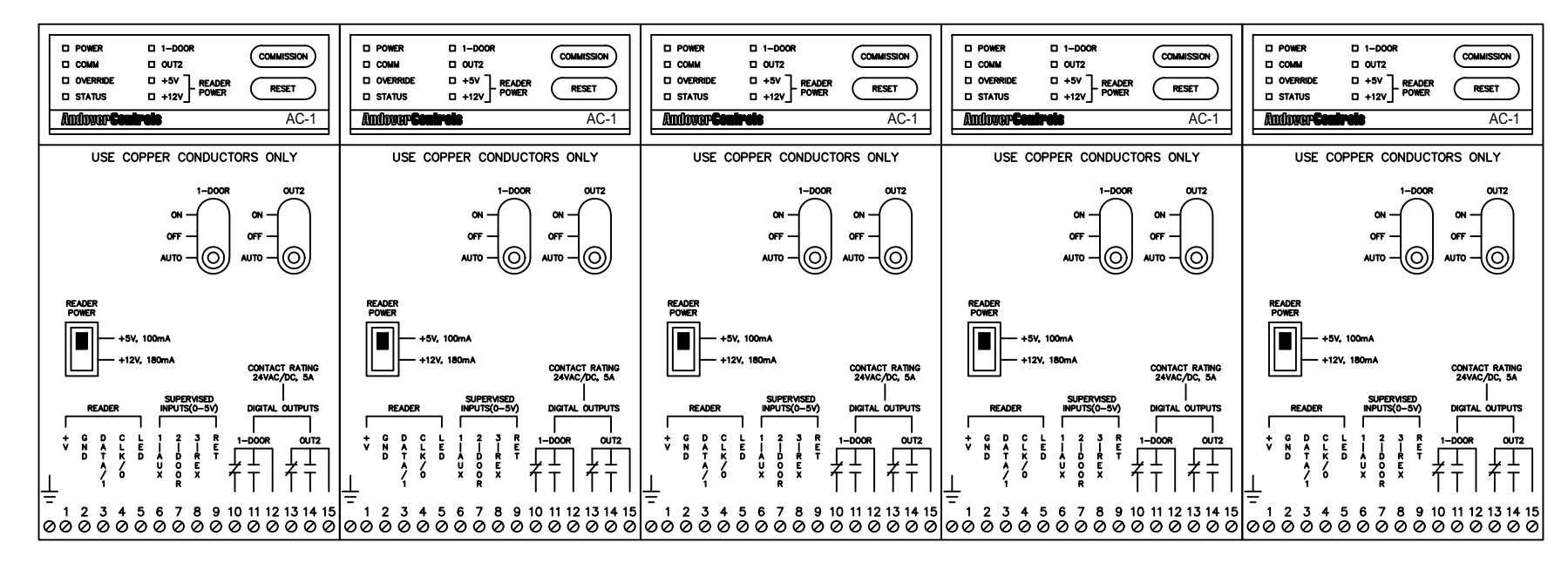


ONE STORY ROOF  
SEE ROOF PLAN.

SECOND FLOOR – INTRUSION SYSTEM – AREA B  
DEVICE LOCATION PLAN  
SCALE: AS NOTED



# EXISTING INTRUSION CONTROLLERS TO BE DEMO DURING NEW BURGLAR SYSTEM INSTALLATION



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.2  
SECURITY CLOSET 125A

EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.1  
SECURITY CLOSET 125A

SITE NAME & ADDRESS  
**ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 – SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM**

SHEET TITLE:  
**ACCESS CONTROL  
PANEL BUILD  
DETAILS – 01.ACC1.1 &  
01.ACC1.2 – DEMO**

PROJECT NUMBER:  
**GA24G3142**

SHEET NUMBER:  
**RVC\_SSB\_A\_700\_DEMO**

**INTRUSION SYSTEM  
GENERAL NOTES:**

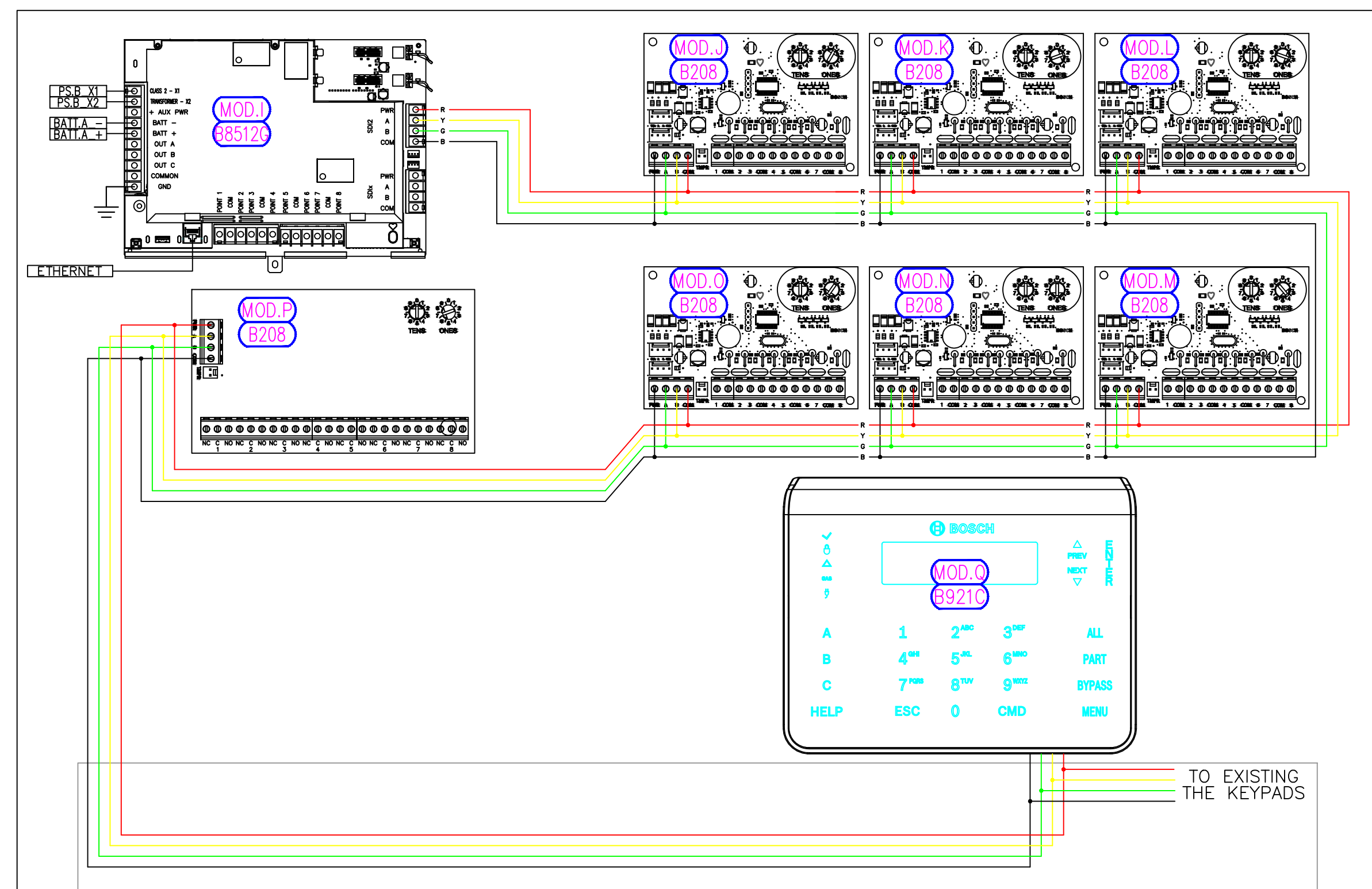
THE CUSTOMER IS TO PROVIDE A NEW ETHERNET NETWORK CONNECTIONS FOR THE INTRUSION SYSTEM.

REMOVE EXISTING INTRUSION SYSTEM CONTROLLERS AND REPLACE THEM WITH BOSCH G-SERIES CONTROLLERS.

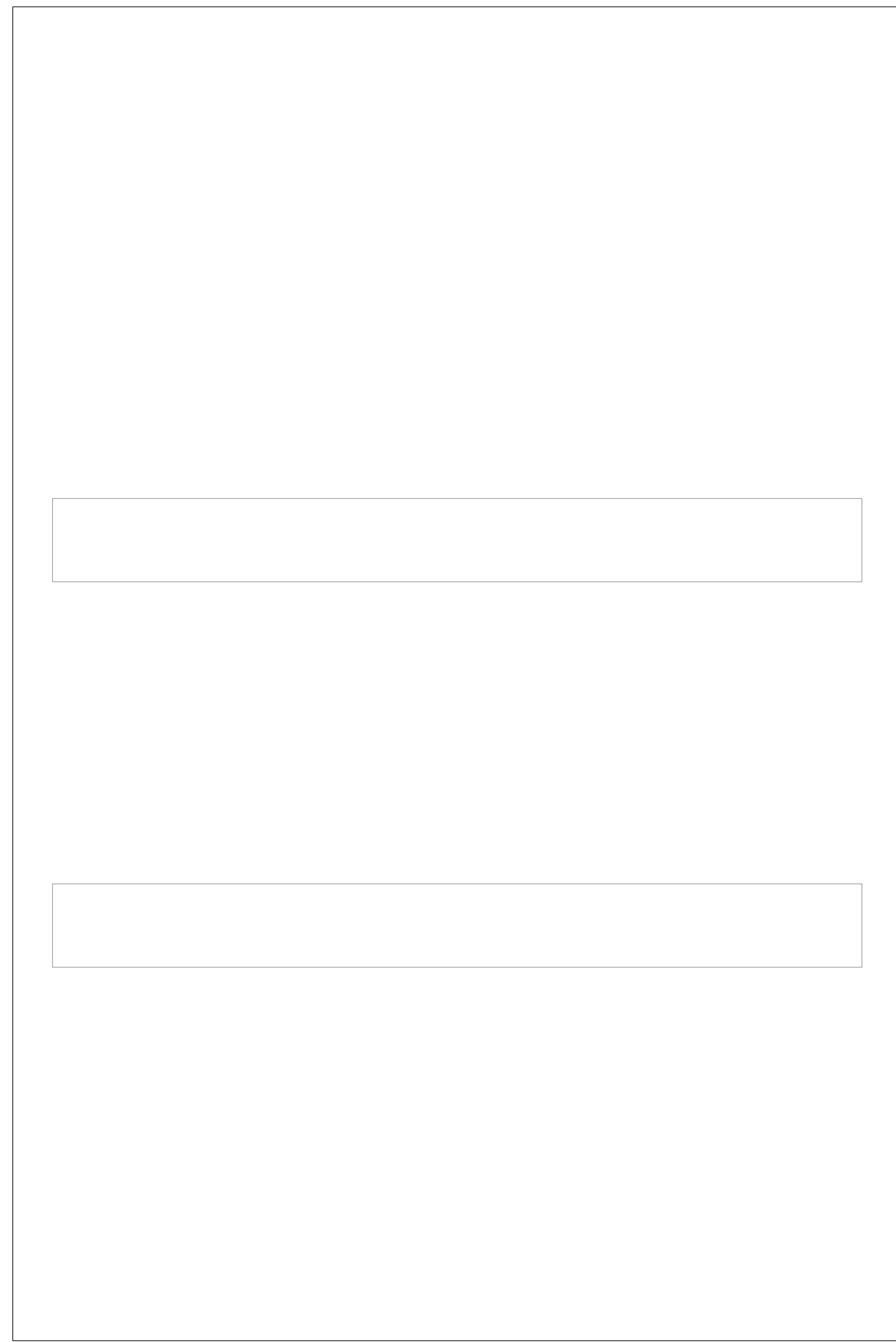
**KEY NOTES:**

1 ELECTRICAL TO PROVIDE 4AMP FUSE RECEPTACLE FOR 01.ACC1.1 TO POWER THE INTRUSION CONTROLLERS. UTILIZED EXISTING 120VAC.

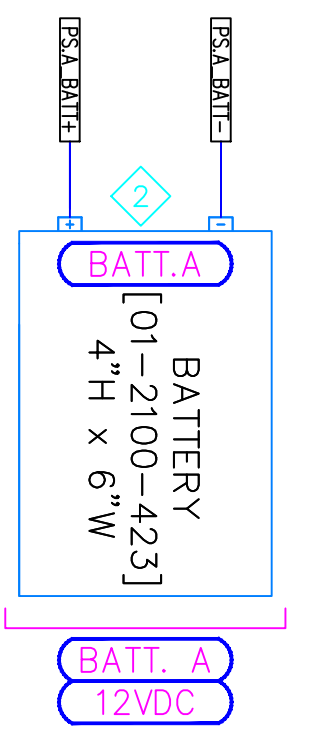
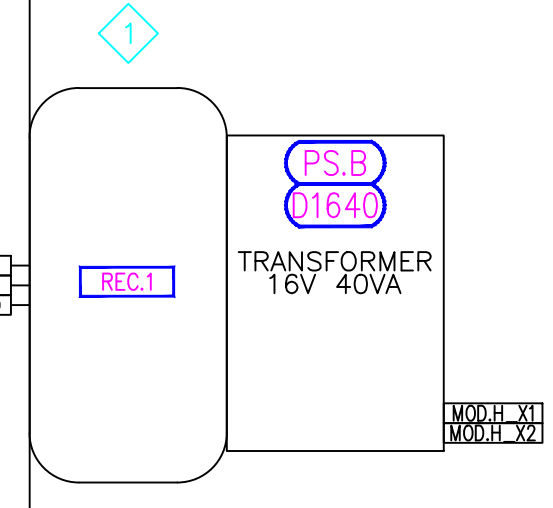
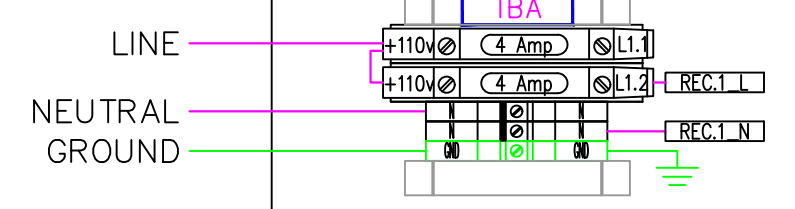
2 PROVIDE 12V Ah BATTERY BACK-UP BATTERIES FOR THE NEW INTRUSION PANEL.



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.2  
SECURITY CLOSET 125A



EXISTING ANDOVER CONTROL ENCLOSURE  
30"H x 26"W x 7"D  
01.ACC1.1  
SECURITY CLOSET 125A



SITE NAME & ADDRESS  
ROCK VALLEY COLLEGE  
SUPPORT SERVICES BUILDING  
3301 N. MULFORD  
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 - SUPPORT SERVICES BLDG.  
WIRELESS LOCKS, ACCESS CONTROL  
& INTRUSION SYSTEM

SHEET TITLE:  
INTRUSION SYSTEM  
PANEL BUILD  
DETAILS - 01.ACC1.1 &  
01.ACC1.2 - NEW WORK

PROJECT NUMBER:  
GA24G3142

SHEET NUMBER:  
RVC\_SSB\_B\_700

# 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	01.B34	Evidence DC			Door Contact	
2	01.B32	Evidence Mot			Wall Motion	
3	TBD	Prt Srv Shop DC			Door Contact	To be removed per owner request
4	TBD	Prt Srv Mot			Wall Motion	To be removed per owner request
5	TBD	Prt Srv Mot			Wall Motion	To be removed per owner request
6	TBD	Prt Srv Off DC			Door Contact	To be removed per owner request
7	01.B24	Mail Srv Off DC			Door Contact	
8	01.B19	MS Back Dr			Door Contact	
9	01.B20	N Paper Stor DC			Door Contact	
10	01.B45	Secure Stor Dc			Door Contact	
11	01.B22	Mail Serv MD			Wall Motion	
12	01.B21	Paper Stor MD			Wall Motion	
13	01.B25	S Paper Stor DC			Door Contact	
14	01.B18	Loading OHDC			Door Contact	
15	01.B17	Loading DC			Door Contact	
16	TBD	Nancy Mot			Wall Motion	To be verify during installation
17	TBD	Nancy Panic			Panic Button	To be verify during installation
18	TBD	Copy Room Mot			Wall Motion	To be verify during installation
19	TBD	Hall Mot			Wall Motion	To be verify during installation
20	TBD	Conf Rm Mot			Wall Motion	To be verify during installation
21	01.B01	M Shop Main Dc			Door Contact	
22	01.B05	M Shop SC OHDC			Door Contact	
23	01.B07	M Shop NC OHDC			Door Contact	
24	01.B11	M Shop N MD			Wall Motion	
25	01.B14	M Shop S MD			Wall Motion	
26	01.B10	M Shop S OHDC			Door Contact	
27	01.B12	M Shop N OHDC			Door Contact	
28	01.B03	W Shp Main DC			Door Contact	
29	01.B13	W Shp S OHDC			Door Contact	
30	01.B06	W Shp MD			Wall Motion	
31	01.B15	W Shp N OHDC			Door Contact	
32	01.B08	W Shp N DC			Door Contact	
33	TBD	Bradford DC			Door Contact	To be verify during installation
34	TBD	2nd Flr Mech				To be verify during installation
35	02.B06	Finan N DC Mn			Door Contact	
36	02.B05	Finan S MD			Wall Motion	
37	02.B09	Finan N MD			Wall Motion	
38	02.B08	Finan S DC			Door Contact	
39	TBD	M Shop S DC			Door Contact	To be verify during installation
40	TBD	M Shop N DC			Door Contact	To be verify during installation
41	TBD	Panic HR Front			Panic Button	To be verify during installation
42	TBD	HR Dir. Panic			Panic Button	To be verify during installation
43	TBD	HR Corner Panic			Panic Button	To be verify during installation
44	01.B38	HR Panic Button 1				New device added per Intrusion upgrade
45	01.B39	HR Panic Button 2				New device added per Intrusion upgrade
46	01.B40	HR Panic Button 3				New device added per Intrusion upgrade
47	01.B41	HR Panic Button 4				New device added per Intrusion upgrade
48	01.B42	Receiver Tamper				New device added per Intrusion upgrade
49	01.B42	Receiver Fault				New device added per Intrusion upgrade
50	01.B43	HR Motion				New device added per Intrusion upgrade
51	01.B44	HR Main Entrance DC				New device added per Intrusion upgrade

Keypads					
#	Floor plan location	Name	Point Type	Partition/Zone	Notes
1	00.B03	TBD by customer			
2	01.B02	TBD by customer			
3	01.B04	TBD by customer			
4	01.B23	TBD by customer			
5	01.B30	TBD by customer			
6	01.B33	TBD by customer			
7	02.B01	TBD by customer			
8	02.B07	TBD by customer			
9	01.B35	TBD by customer			

Partitions / Zone	
#	Name
1	TBD by customer
2	TBD by customer
3	TBD by customer
4	TBD by customer
5	TBD by customer
6	TBD by customer
7	TBD by customer
8	TBD by customer

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