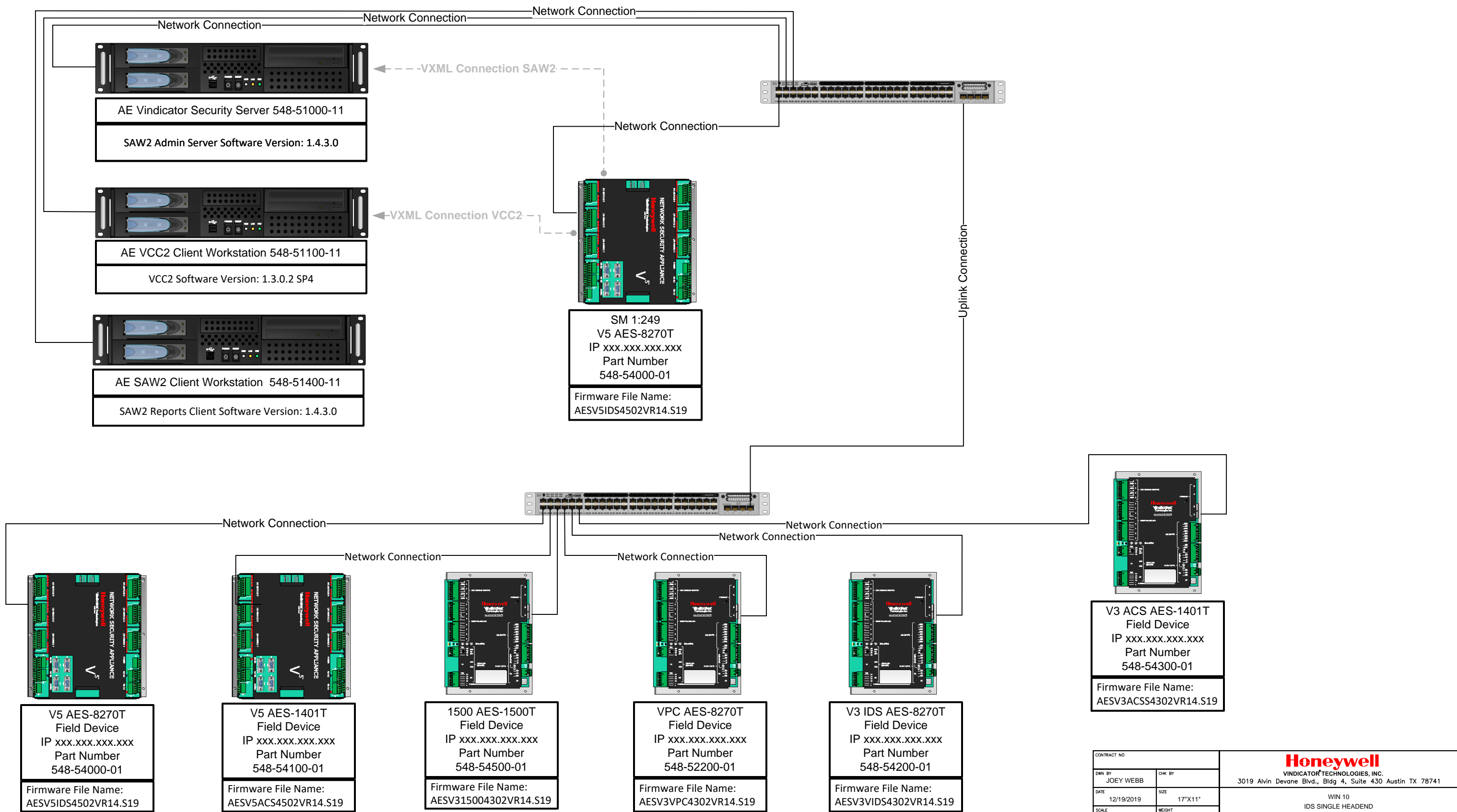


# WIN 10 Vindicator Single V5 IDS Head End

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



Network Connection

Network Connection

Network Connection

AE Vindicator Security Server 548-51000-11

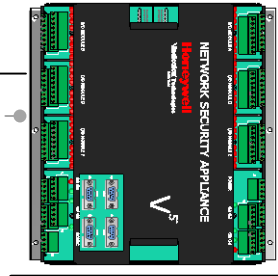
SAW2 Admin Server Software Version: 1.4.3.0

AE VCC2 Client Workstation 548-51100-11

VCC2 Software Version: 1.3.0.2 SP4

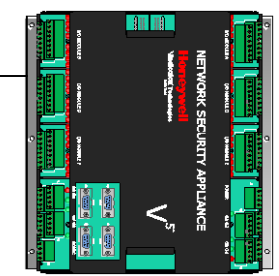
AE SAW2 Client Workstation 548-51400-11

SAW2 Reports Client Software Version: 1.4.3.0



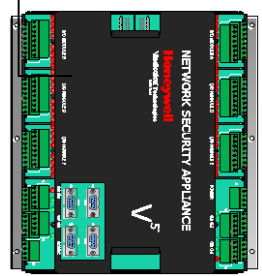
SM 1:249  
V5 AES-8270T  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54000-01

Firmware File Name:  
AESV5IDS4502VR14.S19



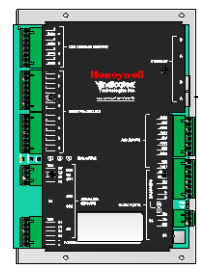
V5 AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54000-01

Firmware File Name:  
AESV5IDS4502VR14.S19



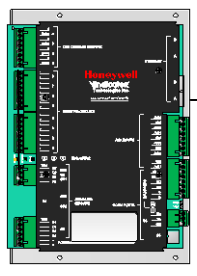
V5 AES-1401T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54100-01

Firmware File Name:  
AESV5ACS4502VR14.S19



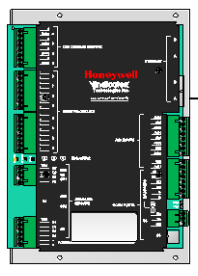
1500 AES-1500T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54500-01

Firmware File Name:  
AESV315004302VR14.S19



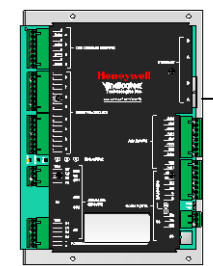
VPC AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-52200-01

Firmware File Name:  
AESV3VPC4302VR14.S19



V3 IDS AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54200-01

Firmware File Name:  
AESV3VIDS4302VR14.S19



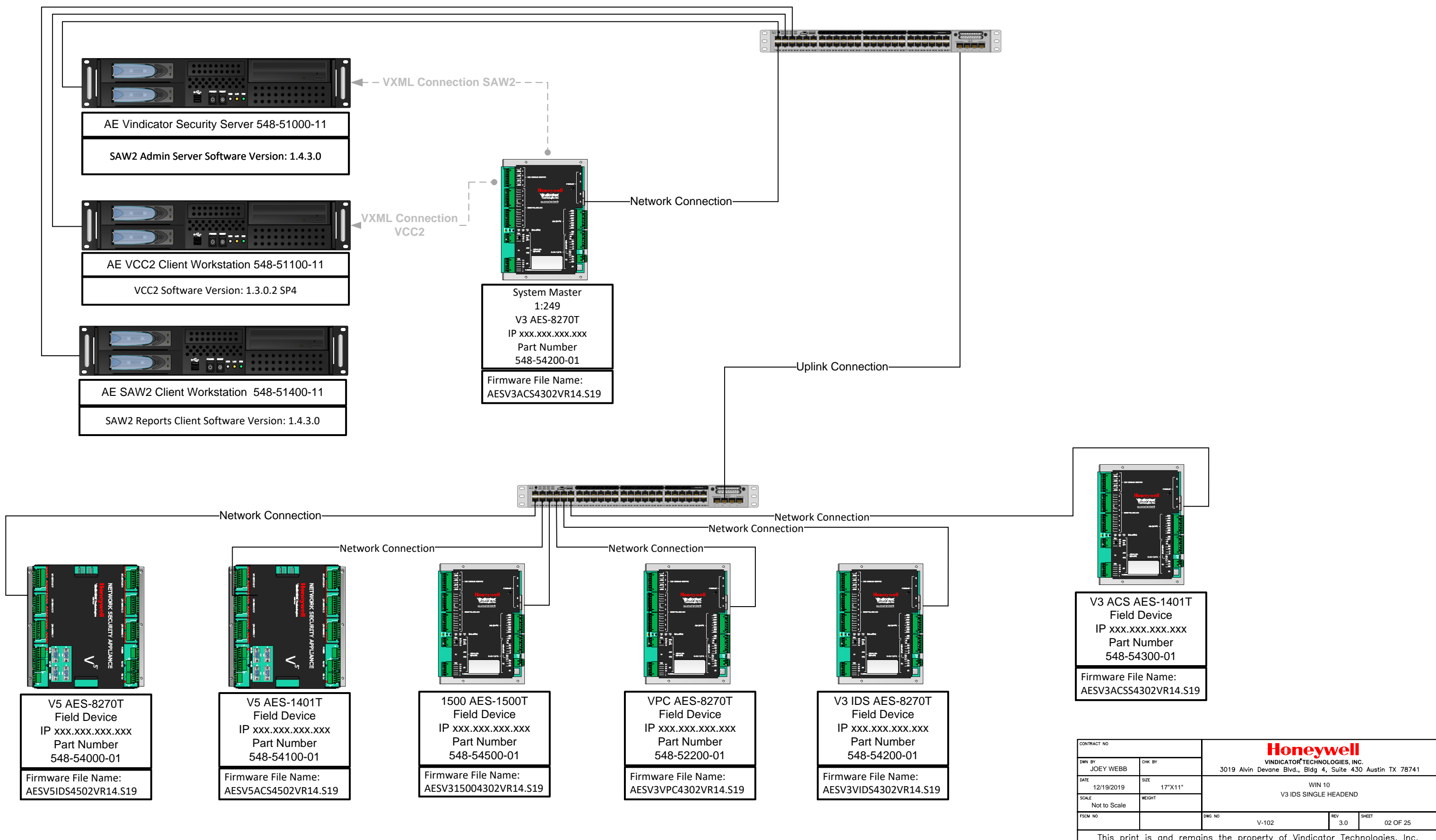
V3 ACS AES-1401T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54300-01

Firmware File Name:  
AESV3ACSS4302VR14.S19

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY JOEY WEBB	CHK BY			
DATE 12/19/2019	SIZE 17"X11"	WIN 10 IDS SINGLE HEADEND		
SCALE Not to Scale	WEIGHT			
FSCM NO	DWG NO V-101	REV 3.0	SHEET 01 OF 25	
This print is and remains the property of Vindicator Technologies, Inc.				

# WIN 10 Vindicator Single V3 IDS Head End

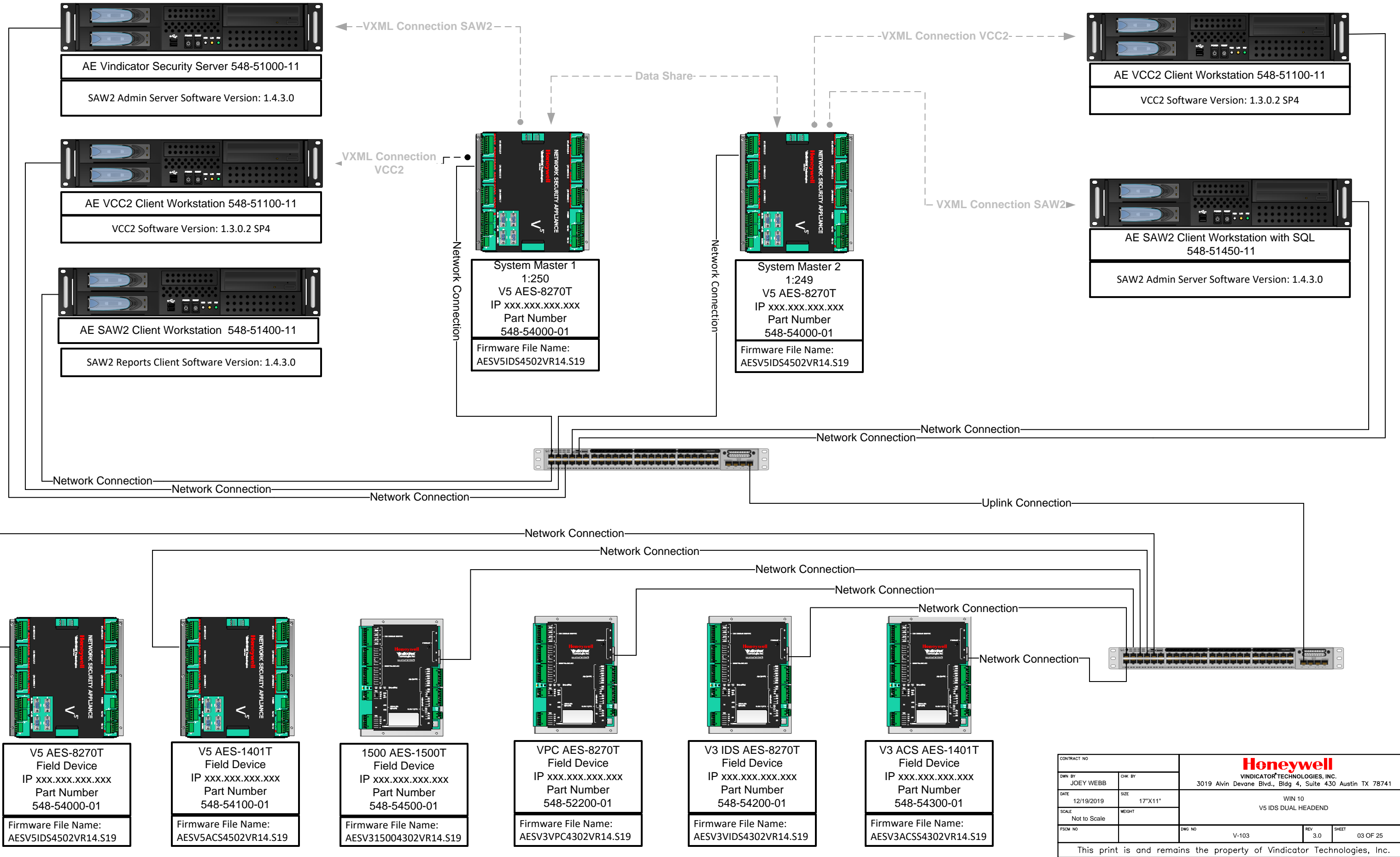
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741	
DWN BY	CHK BY		
DATE	SIZE	WIN 10 V3 IDS SINGLE HEADEND	
SCALE	WEIGHT		
FSCM NO	DWG NO	REV	SHEET
	V-102	3.0	02 OF 25
This print is and remains the property of Vindicator Technologies, Inc.			

# Vindicator WIN 10 Dual V5 IDS Head End

DWG NO		REV		REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION		DATE	APPROVED		
-	-			-	-	-	-



V5 AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54000-01  
Firmware File Name:  
AESV5IDS4502VR14.S19

V5 AES-1401T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54100-01  
Firmware File Name:  
AESV5ACS4502VR14.S19

1500 AES-1500T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54500-01  
Firmware File Name:  
AESV315004302VR14.S19

VPC AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-52200-01  
Firmware File Name:  
AESV3VPC4302VR14.S19

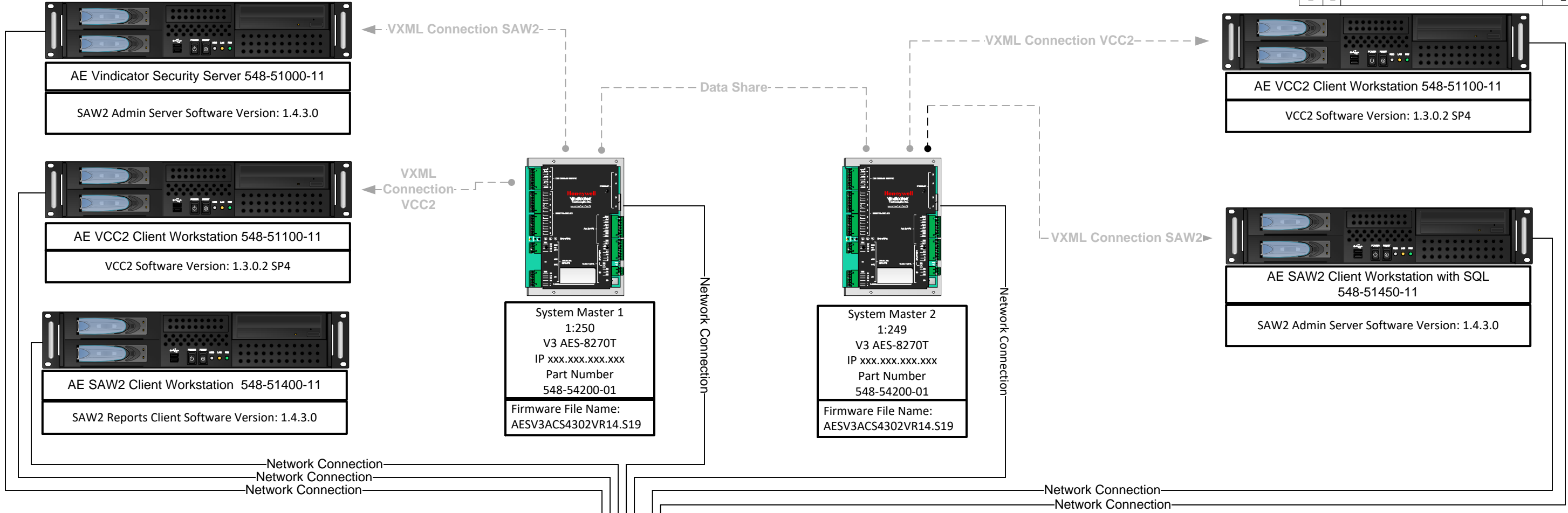
V3 IDS AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54200-01  
Firmware File Name:  
AESV3VIDS4302VR14.S19

V3 ACS AES-1401T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54300-01  
Firmware File Name:  
AESV3ACSS4302VR14.S19

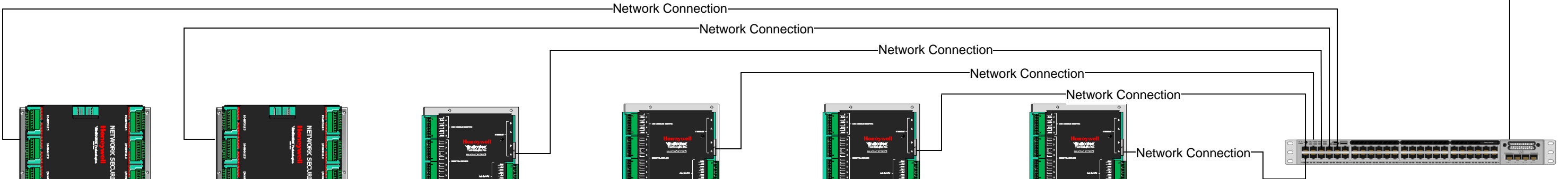
CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741	
DWN BY JOEY WEBB	CHK BY		
DATE 12/19/2019	SIZE 17"X11"	WIN 10 V5 IDS DUAL HEADEND	
SCALE Not to Scale	WEIGHT		
FSCM NO	DWG NO V-103	REV 3.0	SHEET 03 OF 25
This print is and remains the property of Vindicator Technologies, Inc.			

# Vindicator WIN 10 Dual V3 IDS Head End

DWG NO		REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION			
-	-	-	-	-	-



**Notes:**  
 15 - VCC2 per server max.  
 5 - SAW2 per server max.



V5 AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54000-01  
Firmware File Name:  
AESV5IDS4502VR14.S19

V5 AES-1401T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54100-01  
Firmware File Name:  
AESV5ACS4502VR14.S19

1500 AES-1500T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54500-01  
Firmware File Name:  
AESV315004302VR14.S19

VPC AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-52200-01  
Firmware File Name:  
AESV3VPC4302VR14.S19

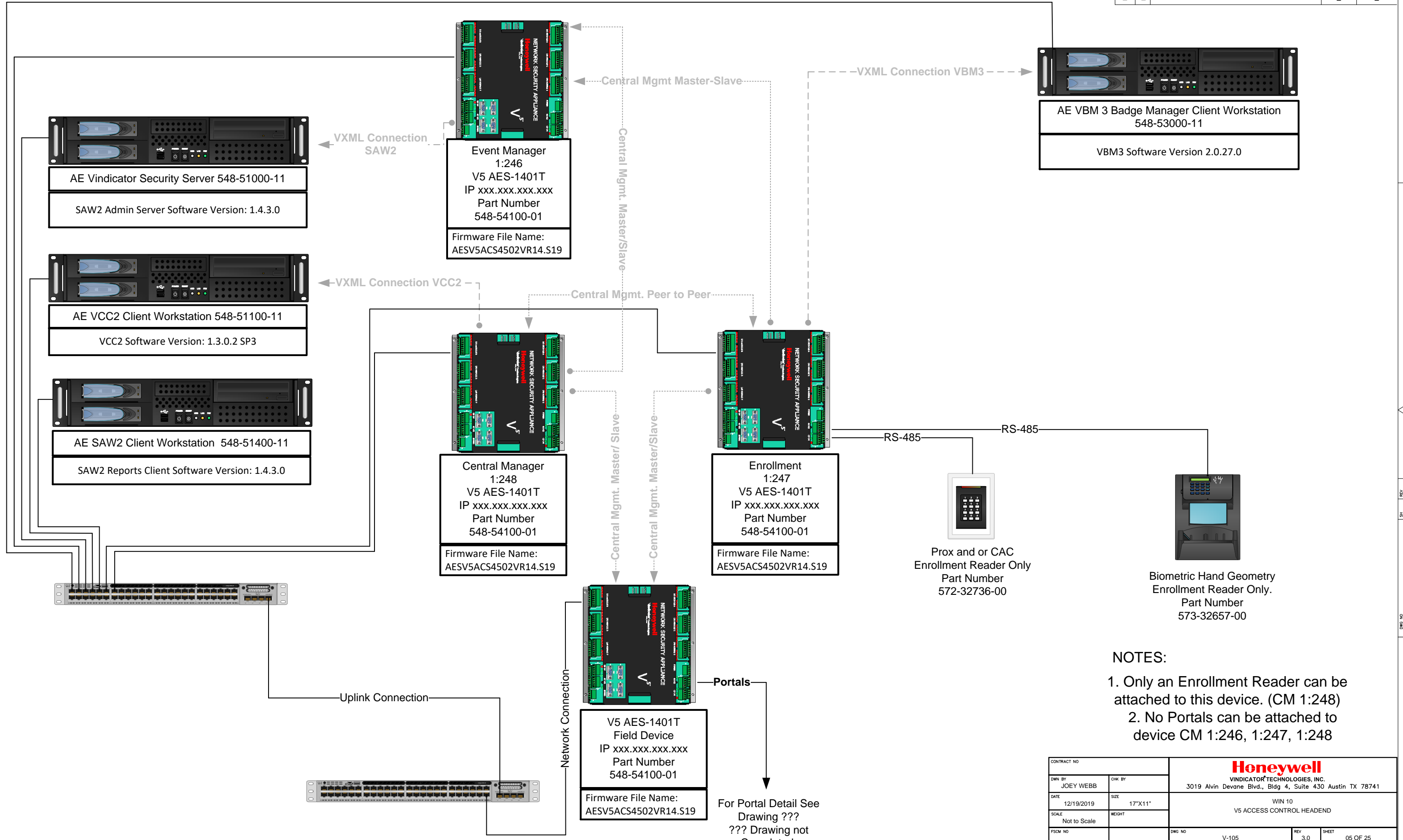
V3 IDS AES-8270T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54200-01  
Firmware File Name:  
AESV3VIDS4302VR14.S19

V3 ACS AES-1401T  
Field Device  
IP xxx.xxx.xxx.xxx  
Part Number  
548-54300-01  
Firmware File Name:  
AESV3ACSS4302VR14.S19

CONTRACT NO		 VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		WIN 10	
DATE				V3 IDS DUAL HEADEND	
DWN BY	CHK BY	DWG NO	REV	SHEET	
12/19/2019	17"X11"	V-104	3.0	04 OF 25	
This print is and remains the property of Vindicator Technologies, Inc.					

# Vindicator WIN10 Access Control V5 Head End

DWG NO	-	SH	REV	REVISIONS	DATE	APPROVED
ZONE	REV	DESCRIPTION			DATE	APPROVED
-	-	-			-	-



- NOTES:**
1. Only an Enrollment Reader can be attached to this device. (CM 1:248)
  2. No Portals can be attached to device CM 1:246, 1:247, 1:248

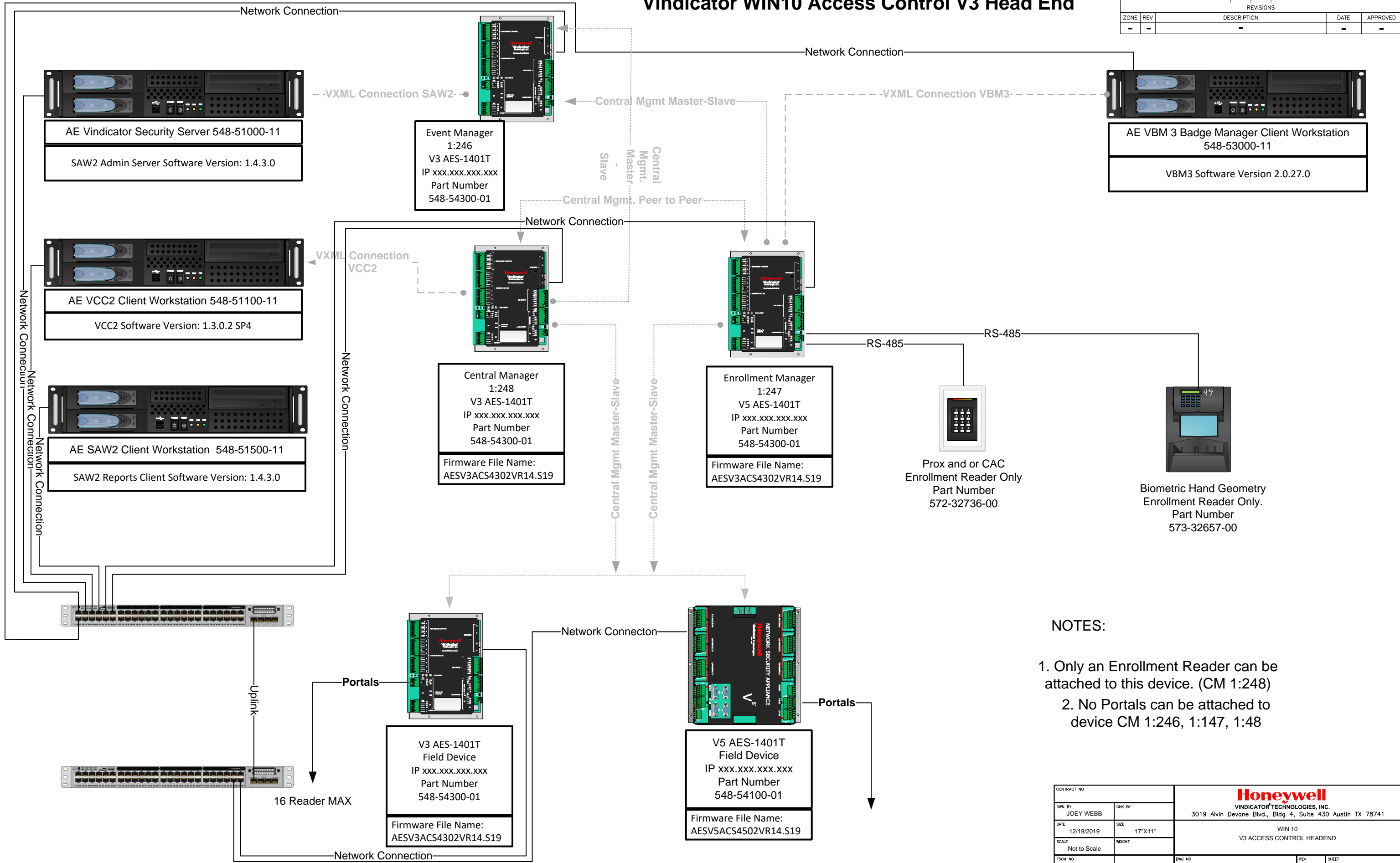
For Portal Detail See Drawing ???  
 ??? Drawing not Completed.

CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741			
DWN BY	CHK BY				
DATE	SIZE	WIN 10			
SCALE	WEIGHT	V5 ACCESS CONTROL HEADEND			
FSCM NO	DWG NO	REV	SHEET	05 OF 25	
	V-105	3.0			
This print is and remains the property of Vindicator Technologies, Inc.					



# Vindicator WIN10 Access Control V3 Head End

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

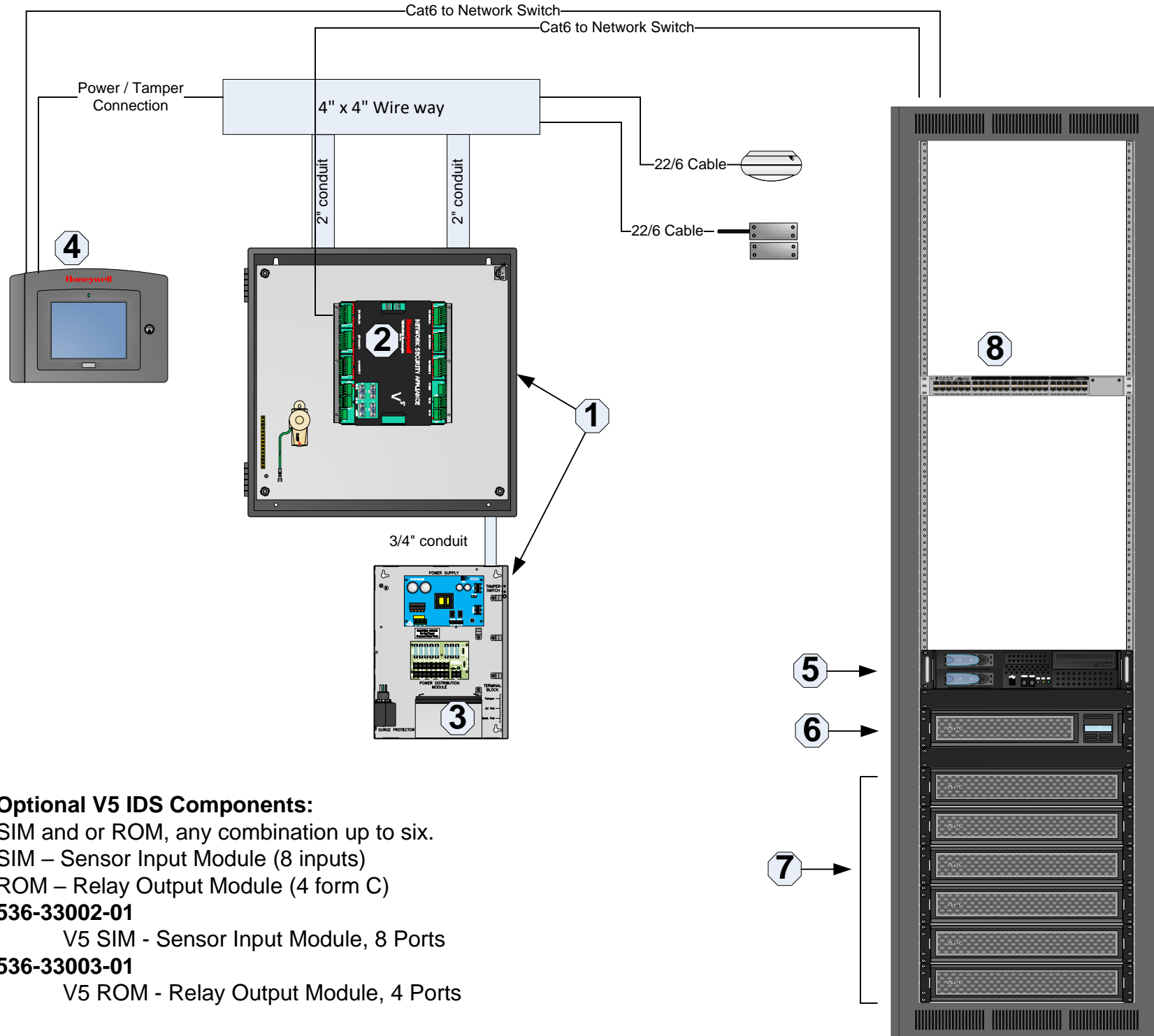


- NOTES:**
1. Only an Enrollment Reader can be attached to this device. (CM 1:248)
  2. No Portals can be attached to device CM 1:246, 1:147, 1:48

CONTRACT NO		<b>Honeywell</b>	
DWN BY JOEY WEBB		VINDICATOR TECHNOLOGIES, INC.	
DATE 12/19/2019		3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741	
SCALE Not to Scale		WIN 10	
FSCM NO		V3 ACCESS CONTROL HEADEND	
		DWG NO V-106	REV 3.0 SHEET 06 OF 25
This print is and remains the property of Vindicator Technologies, Inc.			

# WIN 10 SCIF System with SAW2 Standalone workstation.

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



## Equipment List

- 1 - 550-36174-01**  
Enclosure Bundle, V5 SCIF Solution, includes:  
1- NEMA 1 24x24x6 enclosure  
2 -Tampers  
1 -IP Comm Bus Surge,  
1 -Ground Bar  
1 – AL1012ULX Pre-wired harnessing and one UL Rated Power Supply Enclosure with UL Rated 10A power supply, UL Rated 8 Circuit Distribution Panel, AC Surge, and Tamper.
- 2 - 548-54000-01**  
AE V5 IDS - AES Encryption, Wire
- 3 - 280-24033-00**  
BAT-12100 Battery 10a
- 4 - 548-52000-11**  
AE VSC Site Commander (Win 10)
- 5 – 548-51500-11**  
AE SAW 2 SA Workstation (Win 10, SQL 2012) Office 2010 Pro, 32Gb RAM, RAID 1, 2U Rack Mnt.
- 6 - 293-33888-01**  
UPS, 3000VA/2700W 19-in Rack-mount x 2U, 100-127VAC input
- 7 - 293-34096-02**  
UPS External Battery Pack, 19-in Rack-mount x 2U, 120V (Use with VPN: 293-33888-01) (The quantity of battery packs will depend on run time required and or if facility has UPS system or Generator.)
- 8 – Network Switch.**  
578-37102-01 – Cisco 9300-24T-A  
578-37105-01 – Cisco 9300-NM-4G  
578-36266-01 – Cisco GLC-LH-SMD (Single Mode SFP)

### Optional V5 IDS Components:

- SIM and or ROM, any combination up to six.
- SIM – Sensor Input Module (8 inputs)
- ROM – Relay Output Module (4 form C)
- 536-33002-01**  
V5 SIM - Sensor Input Module, 8 Ports
- 536-33003-01**  
V5 ROM - Relay Output Module, 4 Ports

### Available Monitors:

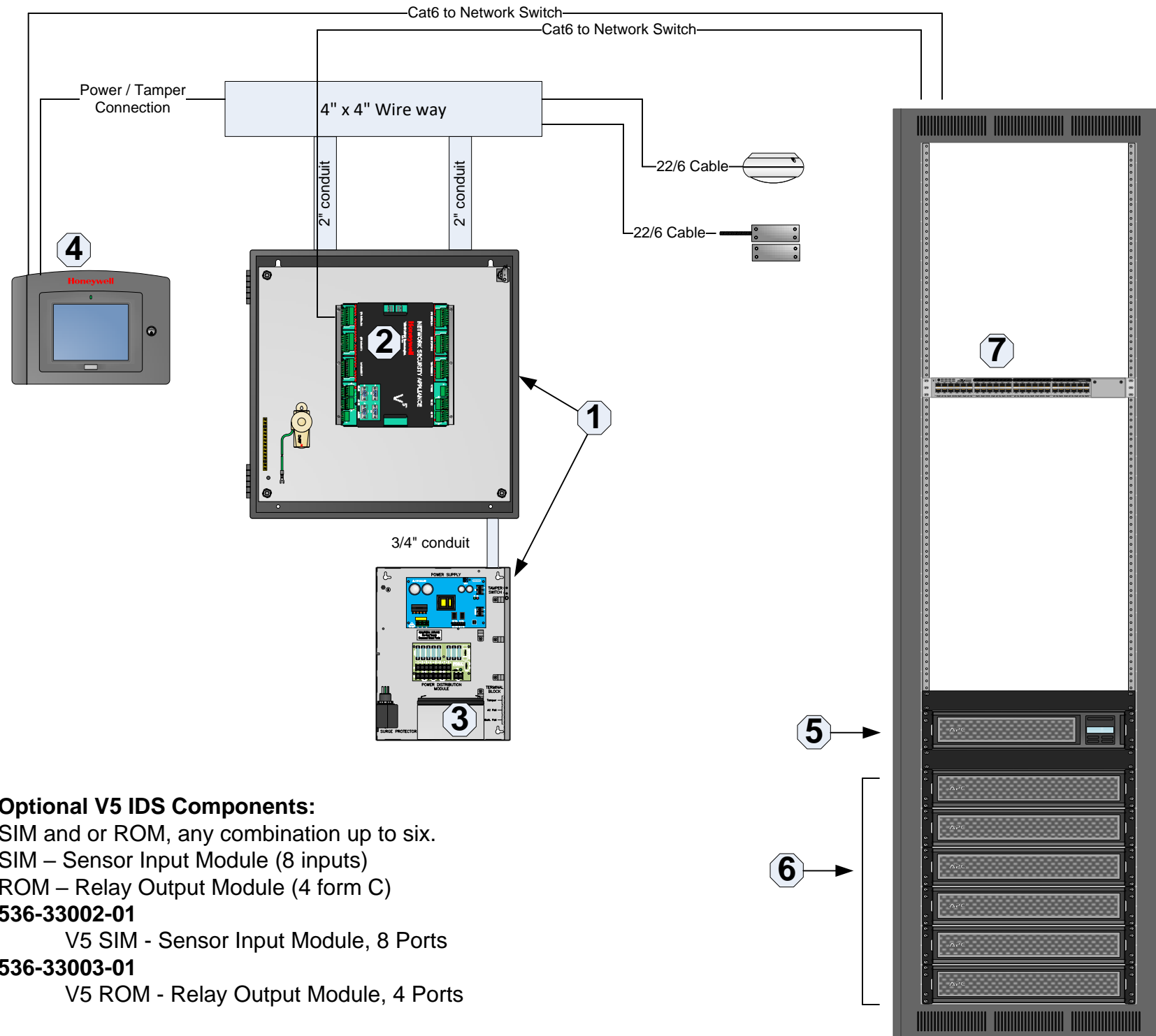
- Rack mount version.
- Desk top version (22", 24", 27")
- If using desk top, KVM extender option is available.



CONTRACT NO		<b>Honeywell</b>	
DWN BY JOEY WEBB		VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741	
DATE 12/19/2019	SIZE 17" X 11"	WIN 10 SITE COMMANDER WITH SAW2 WORKSTATION VINDICATOR SCIF SOLUTION	
SCALE Not to Scale	WEIGHT	DWG NO V-107	REV 3.0 SHEET 07 OF 25
This print is and remains the property of Vindicator Technologies, Inc.			

# WIN 10 SCIF System with VSC/SAW2

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



## Equipment List

- 1 - 550-36174-01**  
Enclosure Bundle, V5 SCIF Solution, includes:  
1- NEMA 1 24x24x6 enclosure  
2 -Tampers  
1 -IP Comm Bus Surge,  
1 -Ground Bar  
1 – AL1012ULX Pre-wired harnessing and one UL Rated Power Supply Enclosure with UL Rated 10A power supply, UL Rated 8 Circuit Distribution Panel, AC Surge, and Tamper.
- 2 - 548-54000-01**  
AE V5 IDS - AES Encryption, Wire
- 3 - 280-24033-00**  
BAT-12100 Battery 10a
- 4 - 548-52000-12**  
AE VSC Site Commander / SAW 2 (Win 10)
- 5 – 293-33888-01**  
UPS, 3000VA/2700W 19-in Rack-mount x 2U, 100-127VAC input
- 6 - 293-34096-02**  
UPS External Battery Pack, 19-in Rack-mount x 2U, 120V (Use with VPN: 293-33888-01) (The quantity of battery packs will depend on run time required and or if facility has UPS system or Generator.)
- 7 – Network Switch.**

### Optional V5 IDS Components:

SIM and or ROM, any combination up to six.

SIM – Sensor Input Module (8 inputs)

ROM – Relay Output Module (4 form C)

**536-33002-01**

V5 SIM - Sensor Input Module, 8 Ports

**536-33003-01**

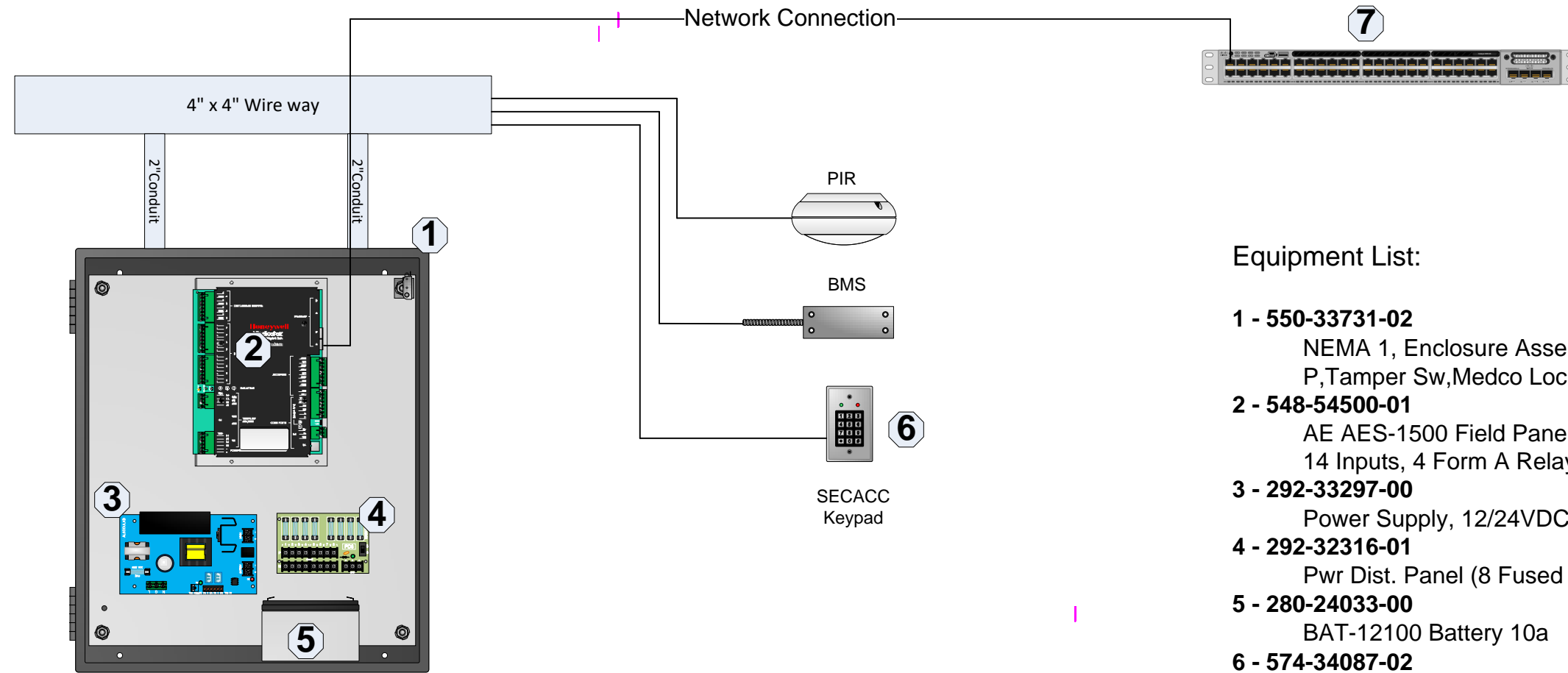
V5 ROM - Relay Output Module, 4 Ports

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	WIN 10		
SCALE	WEIGHT	SIE COMMANDER WITH SAW2		
FSCM NO		VINDICATOR SCIF SOLUTION		
		DWG NO	REV	SHEET
		V-108	3.0	08 OF 25
This print is and remains the property of Vindicator Technologies, Inc.				



# 1500 for Secure Area

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



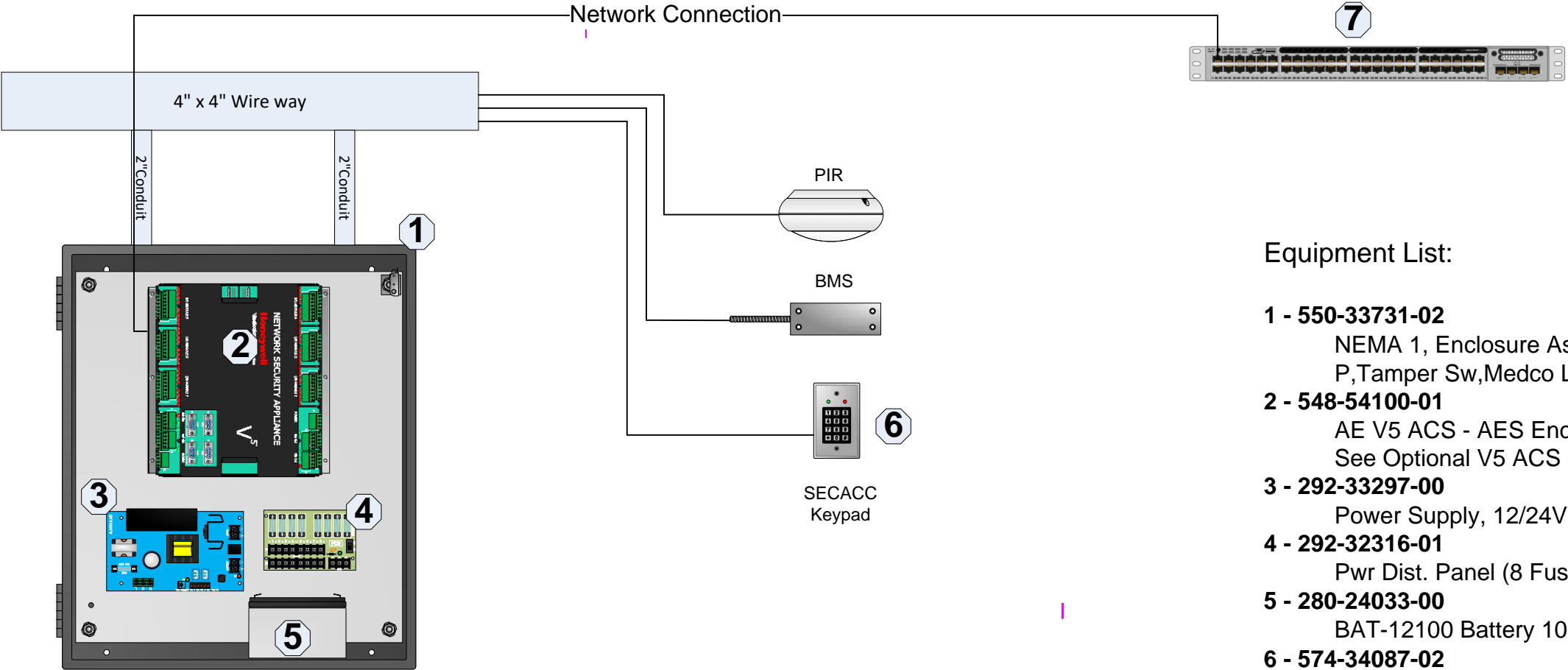
## Equipment List:

- 1 - 550-33731-02**  
NEMA 1, Enclosure Assembly, Interior, Medium (<480sq"), (Encsr,B/P,Tamper Sw,Medco Lock,Duplex,On/Off Sw,A/C Surge,Grnd Bar)
- 2 - 548-54500-01**  
AE AES-1500 Field Panel, Wire  
14 Inputs, 4 Form A Relays
- 3 - 292-33297-00**  
Power Supply, 12/24VDC, 6A, w/charger, UL Listed
- 4 - 292-32316-01**  
Pwr Dist. Panel (8 Fused Circuits), UL Version
- 5 - 280-24033-00**  
BAT-12100 Battery 10a
- 6 - 574-34087-02**  
Keypad Assy, Exterior, with Backbox
- 7 - Network Switch.**

CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY JOEY WEBB	CHK BY			
DATE 12/19/2019	SIZE 17"X11"	WIN 10 1500 SECURE AREA		
SCALE Not to Scale	WEIGHT			
FSCM NO	DWG NO V-109	REV 3.0	SHEET 09 OF 25	
This print is and remains the property of Vindicator Technologies, Inc.				

# V5 ACS (1401) for Secure Area

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



### Equipment List:

- 1 - 550-33731-02**  
NEMA 1, Enclosure Assembly, Interior, Medium (<480sq"), (Encsr,B/ P,Tamper Sw,Medco Lock,Duplex,On/Off Sw,A/C Surge,Grnd Bar)
- 2 - 548-54100-01**  
AE V5 ACS - AES Encryption, Wire  
See Optional V5 ACS components notes below.
- 3 - 292-33297-00**  
Power Supply, 12/24VDC, 6A, w/charger, UL Listed
- 4 - 292-32316-01**  
Pwr Dist. Panel (8 Fused Circuits), UL Version
- 5 - 280-24033-00**  
BAT-12100 Battery 10a
- 6 - 574-34087-02**  
Keypad Assy, Exterior, with Backbox
- 7 - Network Switch.**

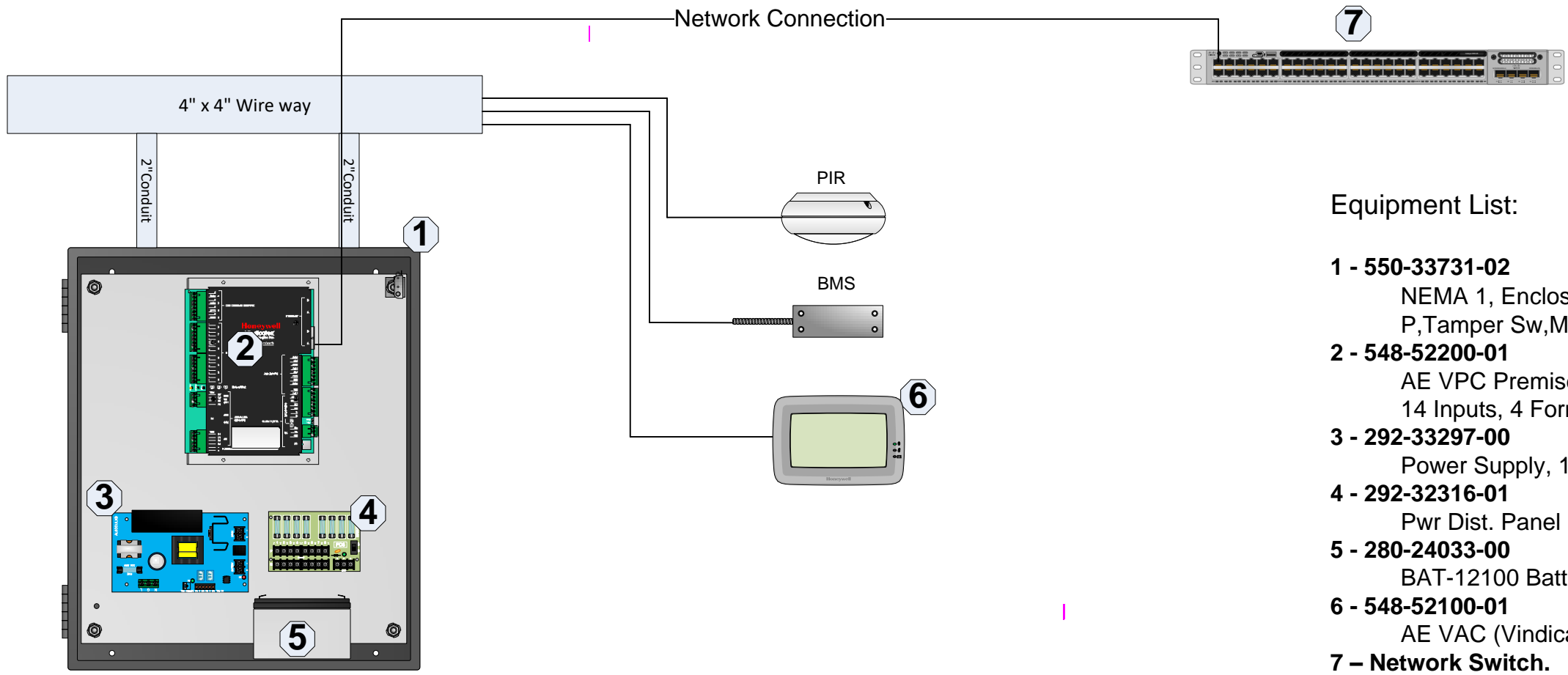
### Optional V5 ACS Components:

- SIM and or ROM, any combination up to six.
- SIM – Sensor Input Module (8 inputs)
- ROM – Relay Output Module (4 form C)
- PVM – Portal Control Module (V5 ACS Only)
- 536-33002-01**  
V5 SIM - Sensor Input Module, 8 Ports
- 536-33003-01**  
V5 ROM - Relay Output Module, 4 Ports
- 536-33004-01**  
V5 PCM - Portal Control Module

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	WIN 10 V5 ACS (1401) SECURE AREA		
SCALE	WEIGHT			
FSCM NO	DWG NO	REV	SHEET	
	V-110	3.0	10 OF 25	
This print is and remains the property of Vindicator Technologies, Inc.				

# VPC (Vindicator Area Commander) for Secure Area

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



## Equipment List:

- 1 - 550-33731-02**  
NEMA 1, Enclosure Assembly, Interior, Medium (<480sq"), (Encsr,B/P,Tamper Sw,Medco Lock,Duplex,On/Off Sw,A/C Surge,Grnd Bar)
- 2 - 548-52200-01**  
AE VPC Premise Controller  
14 Inputs, 4 Form A Relays
- 3 - 292-33297-00**  
Power Supply, 12/24VDC, 6A, w/charger, UL Listed
- 4 - 292-32316-01**  
Pwr Dist. Panel (8 Fused Circuits), UL Version
- 5 - 280-24033-00**  
BAT-12100 Battery 10a
- 6 - 548-52100-01**  
AE VAC (Vindicator Area Commander) WIN 7 CE Embedded.
- 7 - Network Switch.**

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	WIN 10 VPC (VINDICATOR PREMISE CONTROLLER SECURE AREA		
SCALE	WEIGHT			
FSCM NO	DWG NO	REV	SHEET	
	V-111	3.0	11 OF 25	

This print is and remains the property of Vindicator Technologies, Inc.

# Vindicator ACS is a locational Based System

DWG NO		-		SH	REV	-	
REVISIONS							
ZONE	REV	DESCRIPTION				DATE	APPROVED
-	-	-				-	-

**Portal**

**A-Side  
Location**

**Outside**

**B-Side  
Location**

**RM 10**

CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741					
DWN BY	JOEY WEBB	CHK BY					
DATE	12/31/2019	SIZE	17"X11"	WIN 10 LOCATION			
SCALE	Not to Scale	WEIGHT					
FSCM NO		DWG NO	V-112	REV	3.0	SHEET	12 OF 25
This print is and remains the property of Vindicator Technologies, Inc.							

# Single Reader Portal with Strike

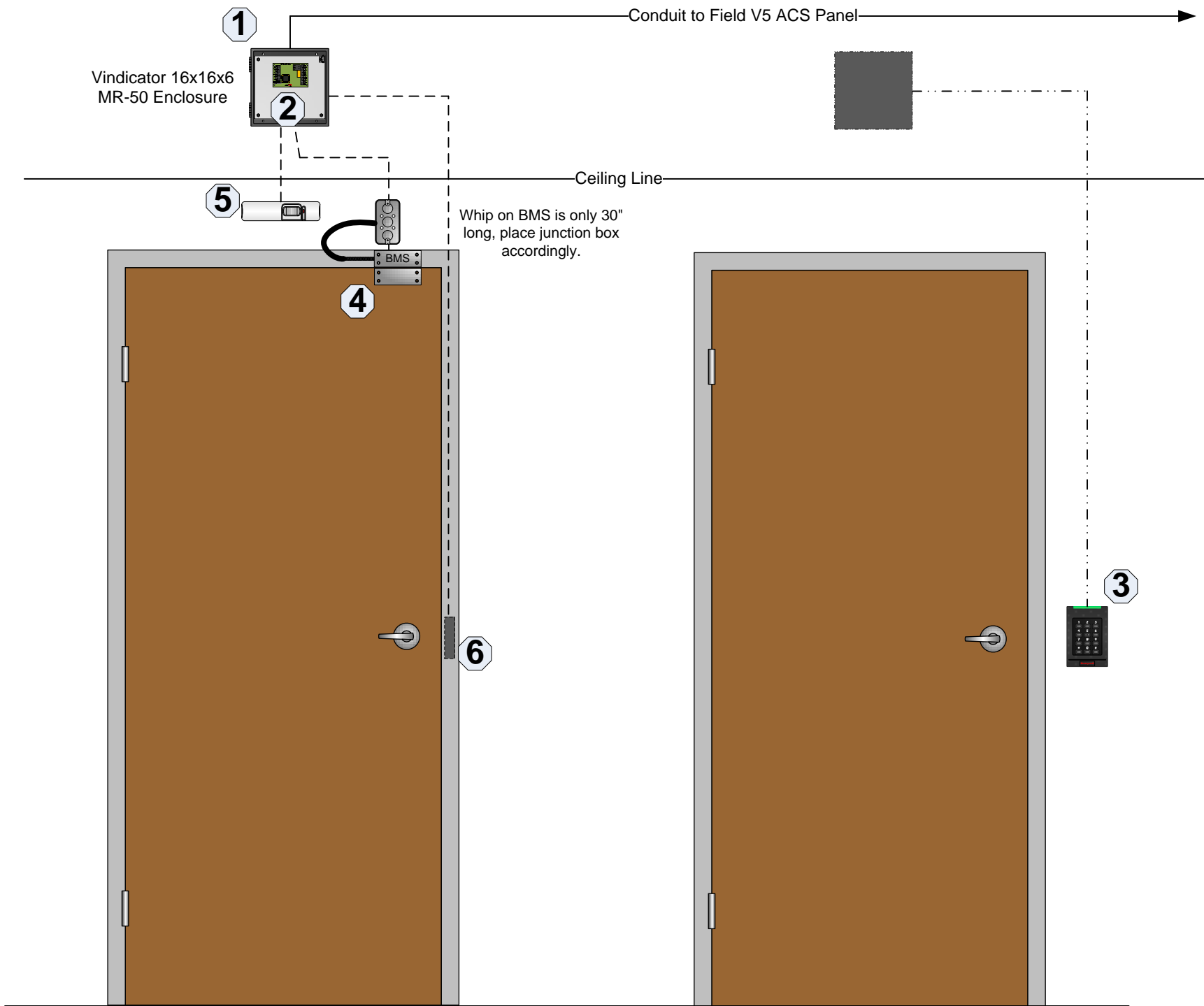
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

**NOTES:**

- 3/4 inch EMT conduit with pull string, concealed in the wall. -----
- ..... 3/4 inch EMT conduit on secure side of door. ....

**Equipment List:**

- 1 - 550-33731-01**  
NEMA 1, Enclosure Assembly, Interior, Small (16"x16"x6"), (Encsr,B/P, Tamper Switch, Medco Lock, Grnd Bar)
- 2 - 574-32658-02**  
Portal Controller, Wiegand, Single keypad, 2-Input (MR-50)
- 3 - 574-36120-07**  
PIVClass Credential Reader w/Keypad. Reads Prox and CACII (75BIT) (Terminal)
- 4 - 192-35870-00**  
AE - BMS, Level 2 SPST, Bundle with Shims and Bracket (HSS-L2S-000)
- 5 - 316-36033-01**  
Request to Exit Sensor
- 6 - Strike**



Secure Side of Door  
ACS Detail  
With Electrical Strike  
B - Side

Non Secure Side of Door  
ACS Detail  
A - Side

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	ACCESS CONTROLL SINGLE READER WITH DOOR STRIKE DOOR DETAIL		
SCALE	WEIGHT			
FSCM NO		DWG NO	REV	SHEET
		V-113	3.0	13 OF 25
This print is and remains the property of Vindicator Technologies, Inc.				



# Double Reader Portal with Strike

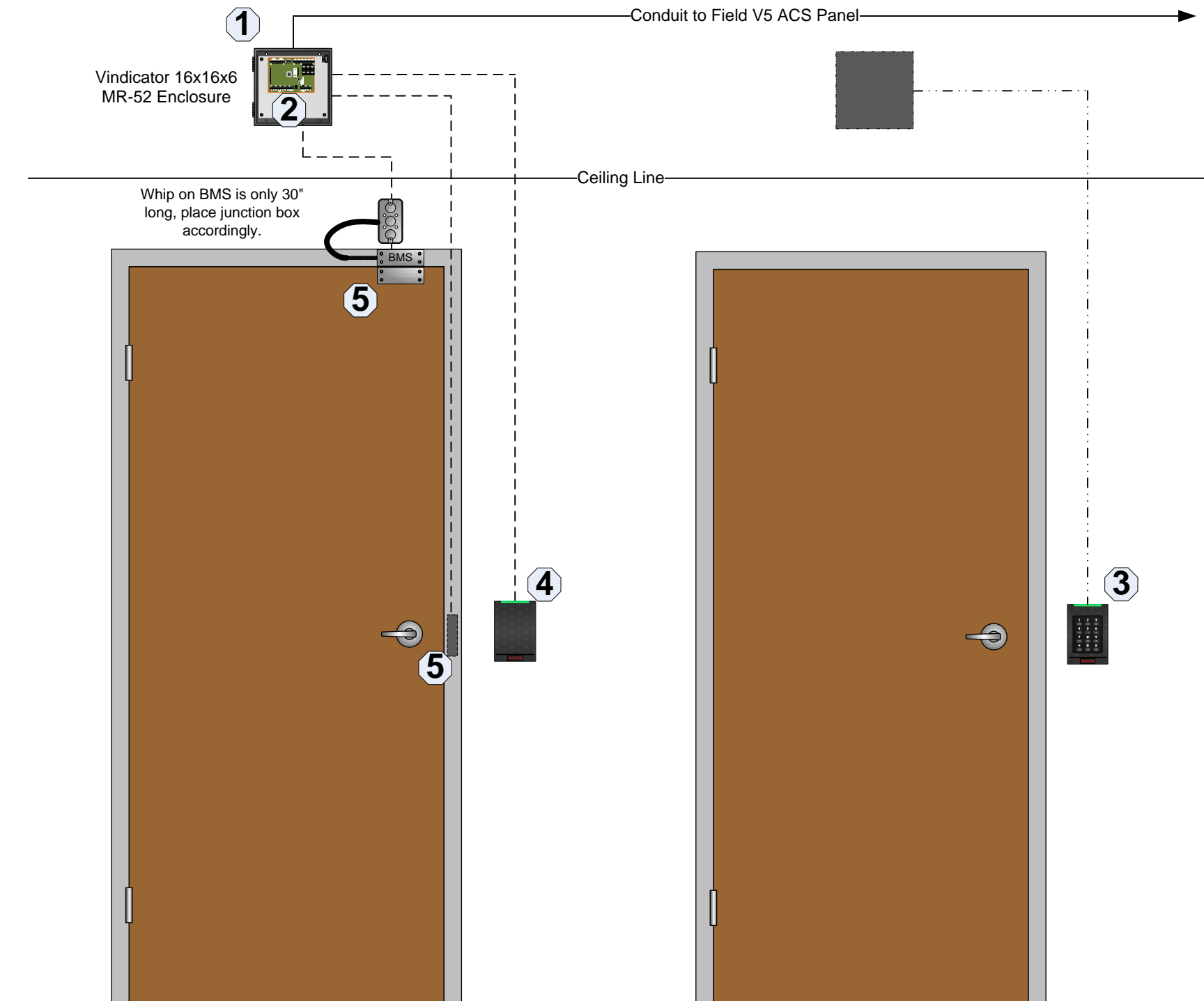
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

### NOTES:

- 3/4 inch EMT conduit with pull string, concealed in the wall. -----
- ..... 3/4 inch EMT conduit on secure side of door. ....

### Equipment List:

- 1 - 550-33731-01**  
NEMA 1, Enclosure Assembly, Interior, Small (16"x16"x6"), (Encsr,B/P, Tamper Switch, Medco Lock, Grnd Bar)
- 2 - 574-33825-01**  
Portal Controller, Wiegand, Dual keypad, 8-Input (MR-52)
- 3 - 574-36120-07**  
PIVClass Credential Reader w/Keypad. Reads Prox and CACII (75BIT) (Terminal)
- 4 - 574-36120-08**  
PIVClass Credential Reader w/no keypad, reads Prox and CAC II (75 bit) (Terminal)
- 5 - 192-35870-00**  
AE - BMS, Level 2 SPST, Bundle with Shims and Bracket (HSS-L2S-000)
- 5 - Strike**



Secure Side of Door  
ACS Detail  
With Electrical Strike  
B - Side

Non Secure Side of Door  
ACS Detail  
A - Side

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	ACCESS CONTROL DOUBLE READER WITH DOOR STRIKE DOOR DETAIL		
SCALE	WEIGHT			
FSCM NO		DWG NO	REV	SHEET
		V-114	3.0	14 OF 25
This print is and remains the property of Vindicator Technologies, Inc.				

# Single Reader Portal with ELS

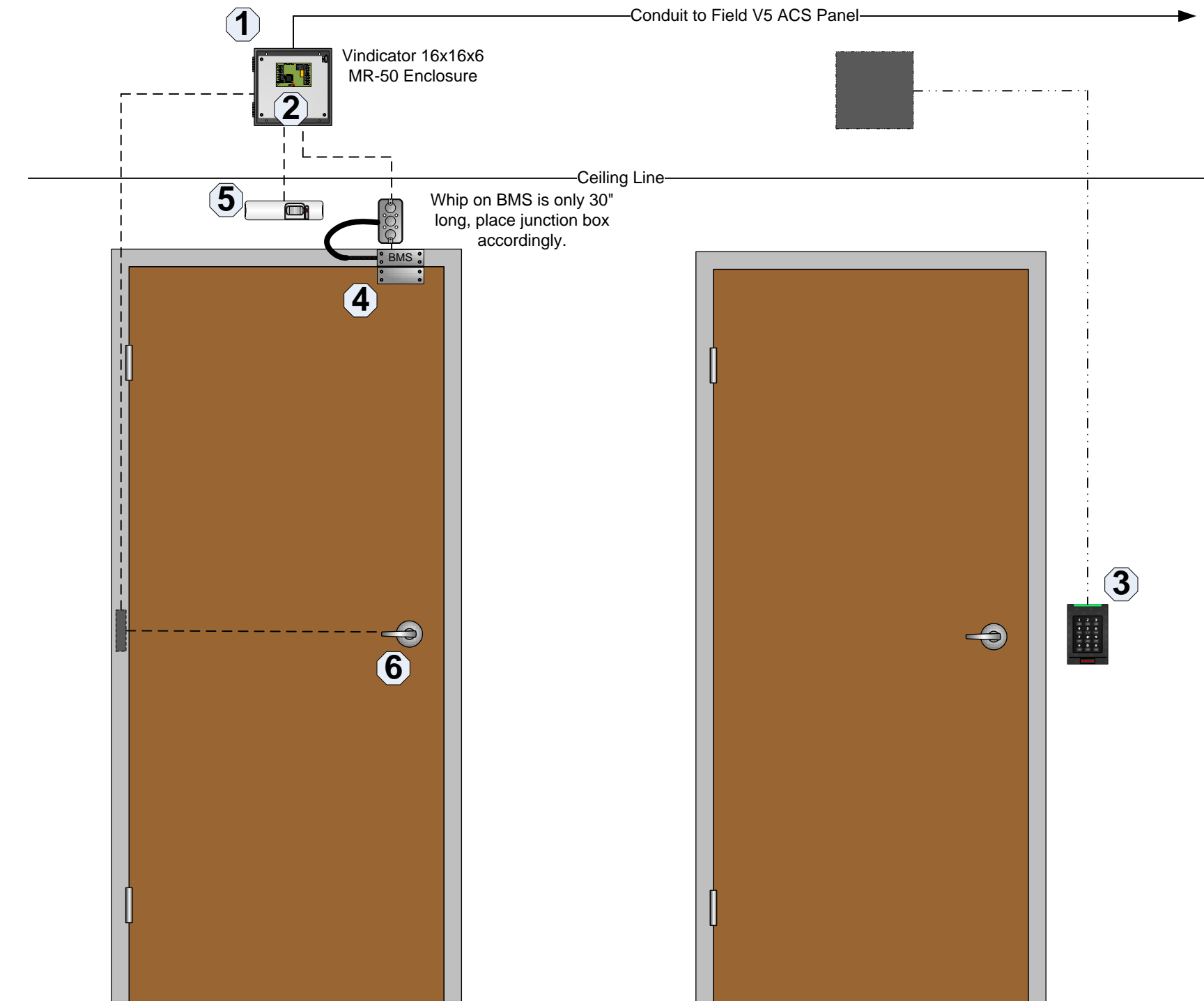
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

## NOTES:

- 3/4 inch EMT conduit with pull string, concealed in the wall. -----
- ..... 3/4 inch EMT conduit on secure side of door. ....

## Equipment List:

- 1 - 550-33731-01**  
NEMA 1, Enclosure Assembly, Interior, Small (16"x16"x6"), (Encsr,B/P, Tamper Switch, Medco Lock, Grnd Bar)
- 2 - 574-32658-02**  
Portal Controller, Wiegand, Single keypad, 2-Input (MR-50)
- 3 - 574-36120-07**  
PIVClass Credential Reader w/Keypad. Reads Prox and CACII (75BIT) (Terminal)
- 4 - 192-35870-00**  
AE - BMS, Level 2 SPST, Bundle with Shims and Bracket (HSS-L2S-000)
- 5 - 316-36033-01**  
Request to Exit Sensor
- 6 - ELS (Electrical Lever Set)**



CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	ACCESS CONTROL SINGLE DOOR WITH ELS DOOR DETAIL		
SCALE	WEIGHT			
FSCM NO		DWG NO	REV	SHEET
		V-115	3.0	15 OF 25
This print is and remains the property of Vindicator Technologies, Inc.				

# Double Reader Portal with ELS

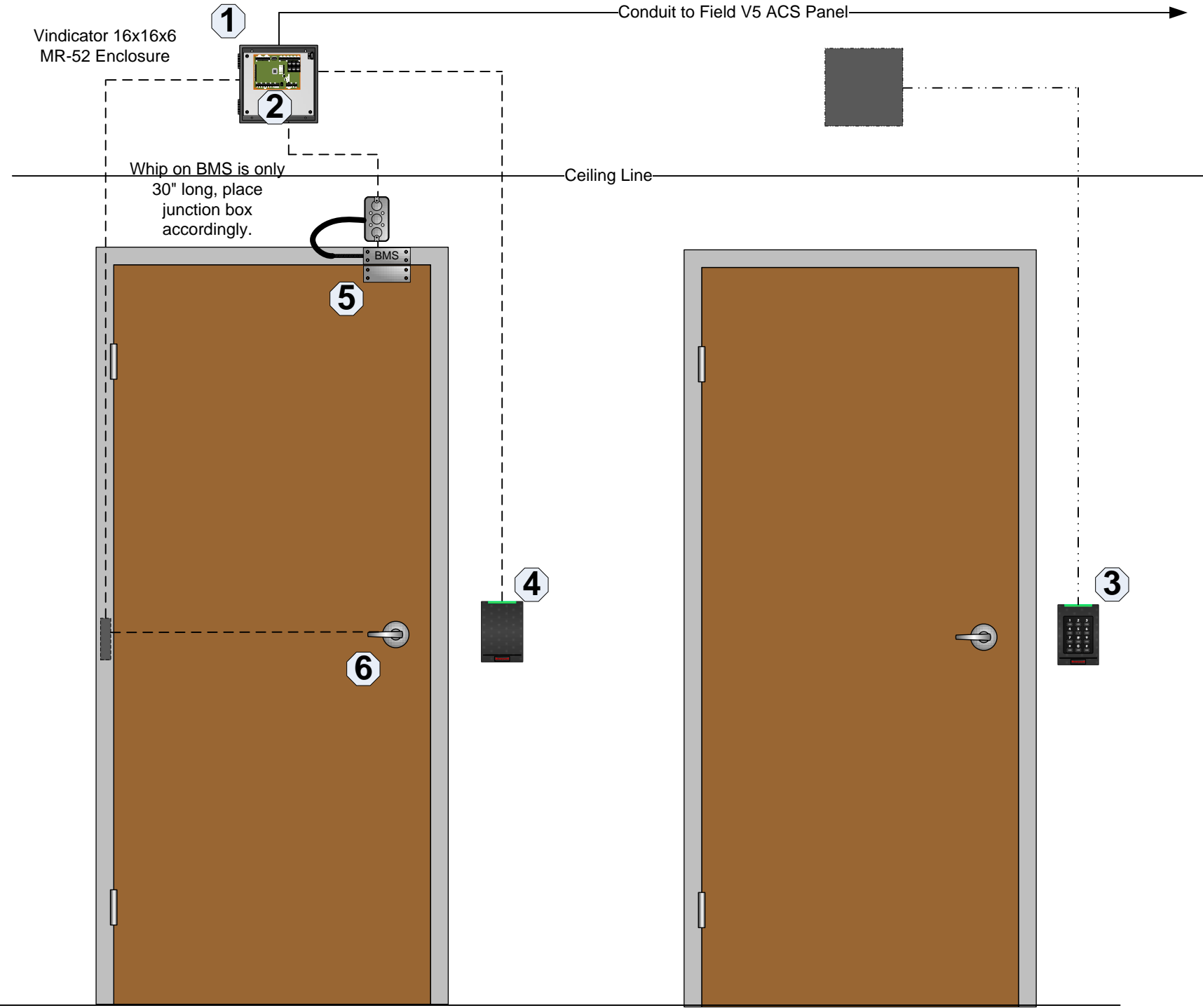
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

**NOTES:**

- 3/4 inch EMT conduit with pull string, concealed in the wall. -----
- ..... 3/4 inch EMT conduit on secure side of door. ....

**Equipment List:**

- 1 - 550-33731-01**  
NEMA 1, Enclosure Assembly, Interior, Small (16"x16"x6"), (Encsr,B/P, Tamper Switch, Medco Lock, Grnd Bar)
- 2 - 574-33825-01**  
Portal Controller, Wiegand, Dual keypad, 8-Input (MR-52)
- 3 - 574-36120-07**  
PIVClass Credential Reader w/Keypad. Reads Prox and CACII (75BIT) (Terminal)
- 4 - 574-36120-08**  
PIVClass Credential Reader w/no keypad, reads Prox and CAC II (75 bit) (Terminal)
- 5 - 192-35870-00**  
AE - BMS, Level 2 SPST, Bundle with Shims and Bracket (HSS-L2S-000)
- 6 - ELS (Electrical Lever Set)**



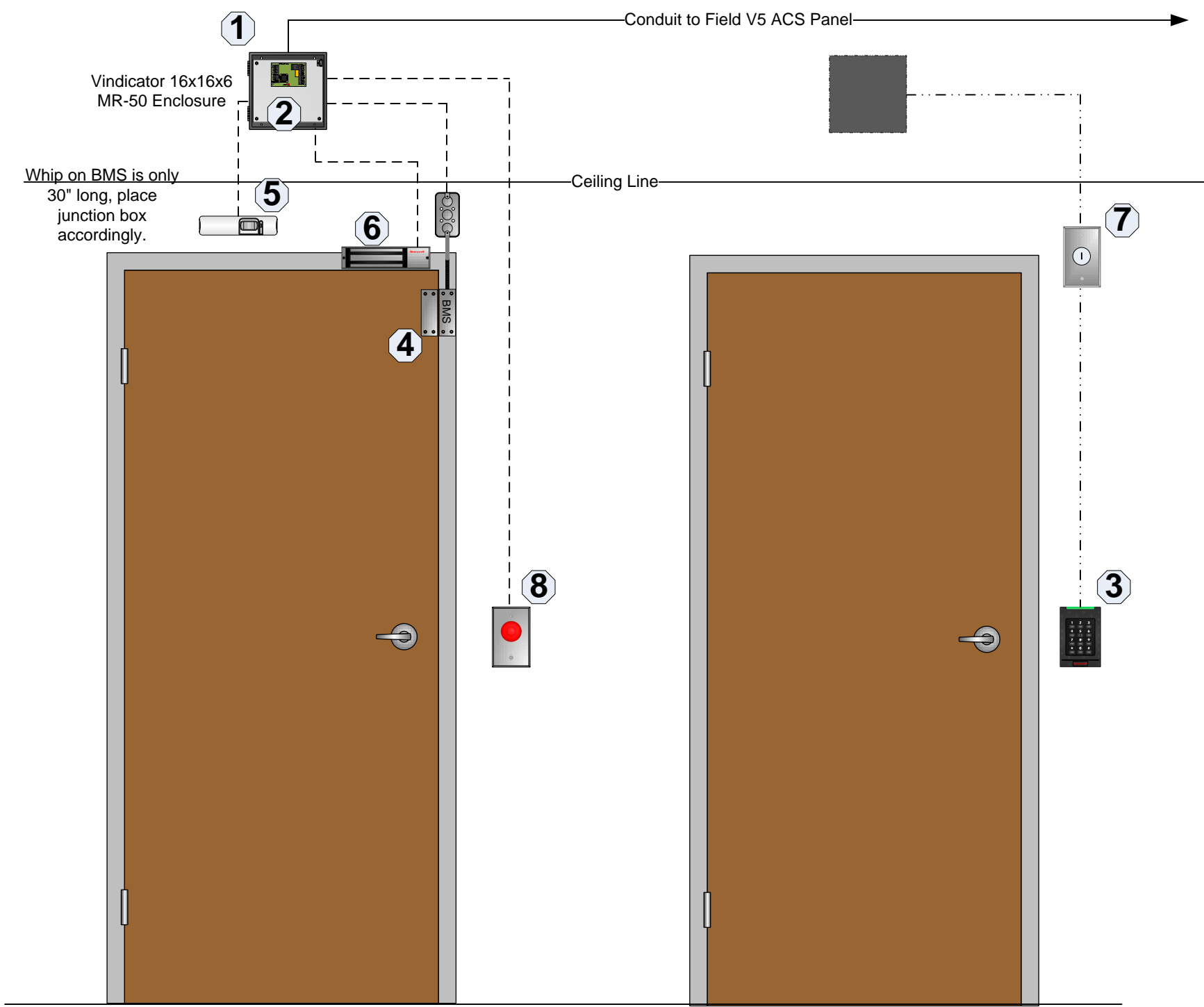
Secure Side of Door  
ACS Detail  
With ELS  
B - Side

Non Secure Side of Door  
ACS Detail  
A - Side

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741			
DWN BY	CHK BY				
DATE	SIZE	ACCESS CONTROL DOUBLE DOOR WITH ELS DOOR DETAIL			
SCALE	WEIGHT				
FSCM NO		DWG NO	REV	SHEET	
		V-116	3.0	16 OF 25	
This print is and remains the property of Vindicator Technologies, Inc.					

# Single Reader Portal with Maglock

DWG NO	-	SH	REV	
REVISIONS			DATE	APPROVED
ZONE	REV	DESCRIPTION		
-	-	-	-	-



**NOTES:**

- 3/4 inch EMT conduit with pull string, concealed in the wall. -----
- ..... 3/4 inch EMT conduit on secure side of door. ....

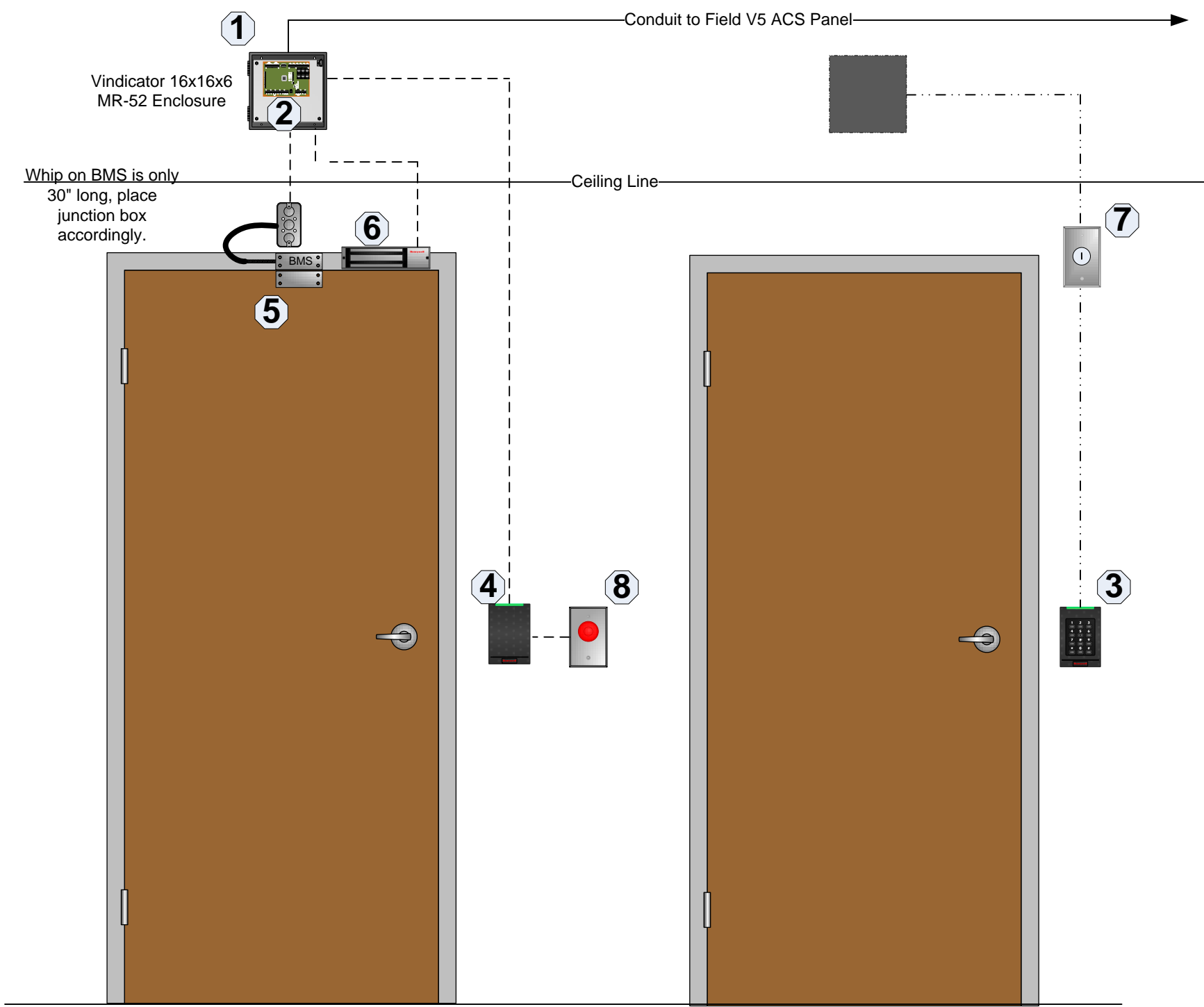
**Equipment List:**

- 1 - 550-33731-01**  
NEMA 1, Enclosure Assembly, Interior, Small (16"x16"x6"), (Encsr,B/P, Tamper Switch, Medco Lock, Grnd Bar)
- 2 - 574-32658-02**  
Portal Controller, Wiegand, Single keypad, 2-Input (MR-50)
- 3 - 574-36120-07**  
PIVClass Credential Reader w/Keypad. Reads Prox and CACII (75BIT) (Terminal)
- 4 - 192-35870-00**  
AE - BMS, Level 2 SPST, Bundle with Shims and Bracket (HSS-L2S-000)
- 5 - 316-36033-01**  
Request to Exit Sensor
- 6 - Maglock**
- 7 - 252-36242-00**  
Key Switch override, Cylinder and DPDT Momentary Single Gang Switch
- 8 - 192-35198-01**  
Emergency Exit Push Button Station, Green Case, DPDT Switch, Turn to release, with Clear Cover

CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	ACCESS CONTROL SINGLE READER WITH MAGLOCK DOOR DETAIL		
1/30/2020	17"x11"			
SCALE	WEIGHT	FSCM NO		
Not to Scale		DWG NO	REV	SHEET
		V-117	3.0	17 OF 25
This print is and remains the property of Vindicator Technologies, Inc.				

# Double Reader Portal with Maglock

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



## NOTES:

- 3/4 inch EMT conduit with pull string, concealed in the wall. -----
- ..... 3/4 inch EMT conduit on secure side of door. ....

## Equipment List:

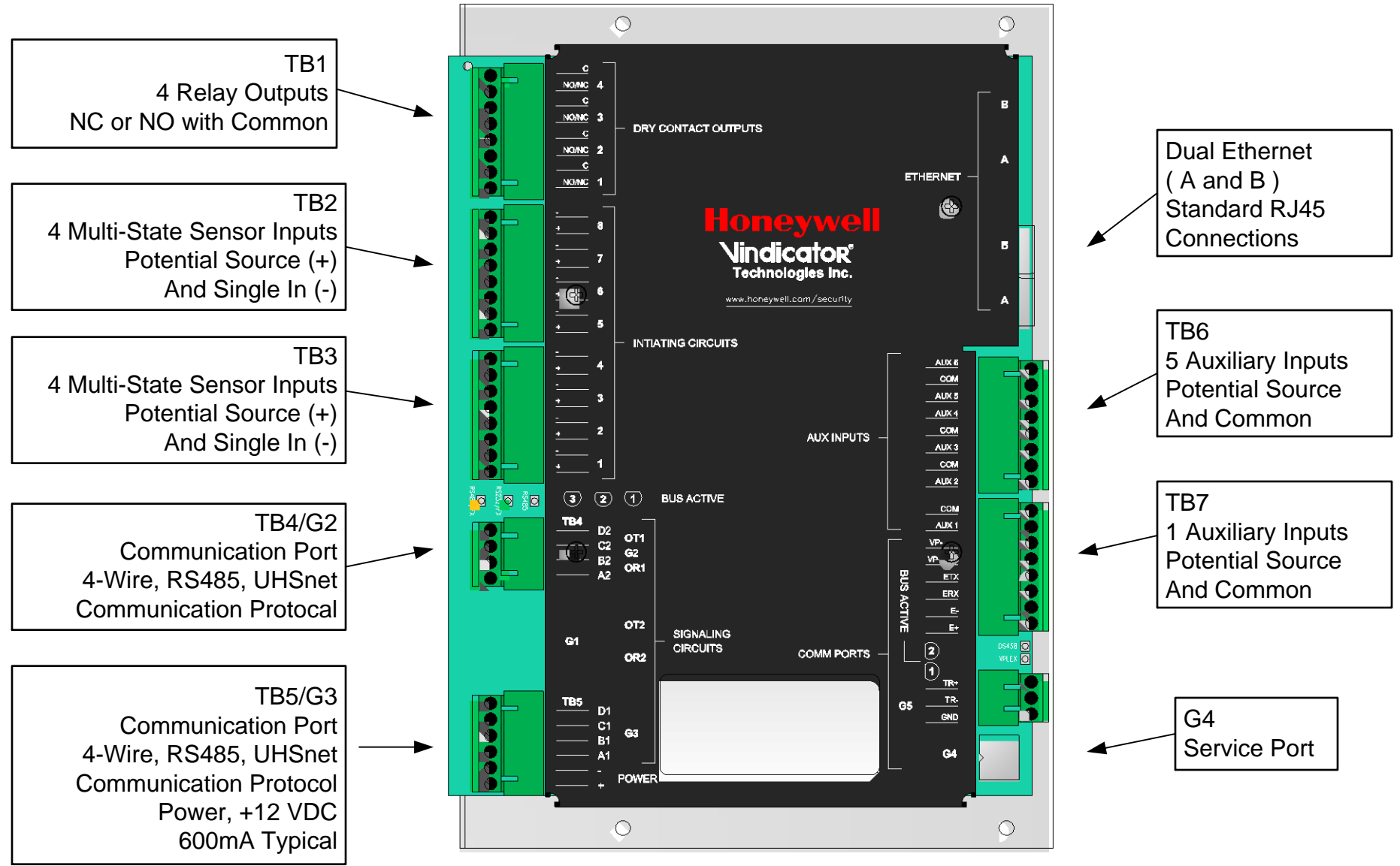
- 1 - 550-33731-01**  
NEMA 1, Enclosure Assembly, Interior, Small (16"x16"x6"), (Encsr,B/P, Tamper Switch, Medco Lock, Grnd Bar)
- 2 - 574-33825-01**  
Portal Controller, Wiegand, Dual keypad, 8-Input (MR-52)
- 3 - 574-36120-07**  
PIVClass Credential Reader w/Keypad. Reads Prox and CACII (75BIT) (Terminal)
- 4 - 574-36120-08**  
PIVClass Credential Reader w/no keypad, reads Prox and CAC II (75 bit) (Terminal)
- 5 - 192-35870-00**  
AE - BMS, Level 2 SPST, Bundle with Shims and Bracket (HSS-L2S-000)
- 6 - Maglock**
- 7 - 252-36242-00**  
Key Switch override, Cylinder and DPDT Momentary Single Gang Switch
- 8 - 192-35198-01**  
Emergency Exit Push Button Station, Green Case, DPDT Switch, Turn to release, with Clear Cover

CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	ACCESS CONTROL DOUBLE READER WITH MAGLOCK DOOR DETAIL		
1/30/2020	17"X11"			
SCALE	WEIGHT	FSCM NO		
Not to Scale		DWG NO	REV	SHEET
		V-118	3.0	18 OF 25
This print is and remains the property of Vindicator Technologies, Inc.				



DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

### V3 IDS, V3 ACS, VPC and 1500



#### V3 Boards Network Connection Options:

- 548-54200-01**  
AE V3 IDS - AES Encryption, Wire
- 548-54200-02**  
AE V3 IDS - AES Encryption, MMFO
- 548-54200-03**  
AE V3 IDS - AES Encryption, SMFO
- 548-52200-01**  
AE VPC Premise Controller
- 548-54500-01**  
AE AES-1500 Field Panel, Wire
- 548-54500-02**  
AE AES-1500 Field Panel, MMFO
- 548-54500-03**  
AE AES-1500 Field Panel, SMFO

- TB1**  
4 Relay Outputs  
NC or NO with Common
- TB2**  
4 Multi-State Sensor Inputs  
Potential Source (+)  
And Single In (-)
- TB3**  
4 Multi-State Sensor Inputs  
Potential Source (+)  
And Single In (-)
- TB4/G2**  
Communication Port  
4-Wire, RS485, UHSnet  
Communication Protocol
- TB5/G3**  
Communication Port  
4-Wire, RS485, UHSnet  
Communication Protocol  
Power, +12 VDC  
600mA Typical

- Dual Ethernet**  
( A and B )  
Standard RJ45  
Connections
- TB6**  
5 Auxiliary Inputs  
Potential Source  
And Common
- TB7**  
1 Auxiliary Inputs  
Potential Source  
And Common
- G4**  
Service Port

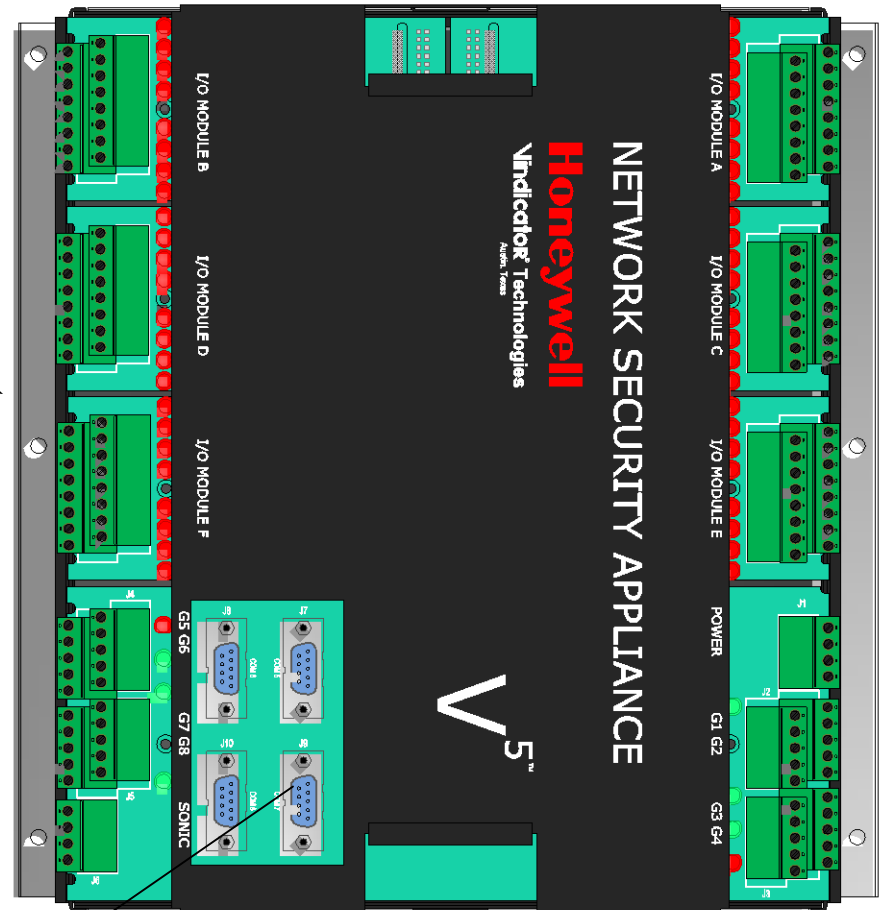
- V3 Firmware Versions  
V3 IDS UHS or AES  
V3 ACS UHS or AES
- VPC Firmware Versions  
VPC (8270) UHS or AES
- 1500 Firmware Versions  
1500 UHS or AES

CONTRACT NO		 <b>VINDICATOR TECHNOLOGIES, INC.</b> 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	V3 BOARD V3 IDS, V3 ACS, V3 VPC, V3 1500		
SCALE	WEIGHT			
FSCM NO	DWG NO	REV	SHEET	
	V-119	3.0	19 OF 25	

This print is and remains the property of Vindicator Technologies, Inc.

# V5 IDS (8270) / ACS (1401)

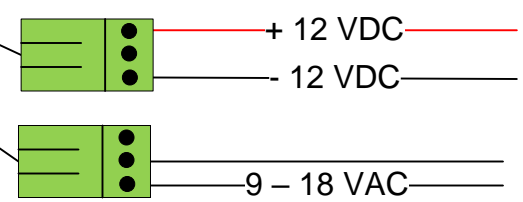
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



Use a combination of SIM / ROM Modules. 6 total  
 Max inputs = 48  
 Max outputs = 24

### LED Health Status

- 7 CPU 1 (UNO)
- 6 CPU 2 (DOS)
- 5 CPU 3 (TRES)
- 4 Cold Fire (Boot Loader)
- 3 Encryption
- 2 Ethernet
- 1 Compact Flash



Power  
 9 - 18 VAC  
 10 - 24 VDC  
 3.5 Amps Max.  
 1.5 Amps Avg.

4 RJ-45 Network Connection

4 Fiber Network Connection option MM or SM

G7 = Programming Port

1 - 4 = RS485  
 5 - 8 = RS485/RS232

Proteus  
 Printers  
 UHS Net Devices  
 CCTV  
 Programming Cable

### V5 IDS/ACS Options:

- 548-54000-01**  
AE V5 IDS - AES Encryption, Wire
- 548-54000-02**  
AE V5 IDS - AES Encryption, MMFO
- 548-54000-03**  
AE V5 IDS - AES Encryption, SMFO
- 548-54100-01**  
AE V5 ACS - AES Encryption, Wire
- 548-54100-02**  
AE V5 ACS - AES Encryption, MMFO
- 548-54100-03**  
AE V5 ACS - AES Encryption, SMFO

### Optional V5 IDS and ACS Components:

- SIM and or ROM, any combination up to six.  
 SIM - Sensor Input Module (8 inputs)  
 ROM - Relay Output Module (4 form C)  
 PCM - Portal Control Module (ACS Only)
- 536-33002-01**  
V5 SIM - Sensor Input Module, 8 Ports
  - 536-33003-01**  
V5 ROM - Relay Output Module, 4 Ports
  - 536-33004-01**  
V5 PCM - Portal Control Module

CONTRACT NO		 VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	V5 BOARD V5 IDS AND ACS		
1/30/2020	17"X11"			
SCALE	WEIGHT			
Not to Scale		DWG NO	REV	SHEET
		V-120	3.0	20 OF 25
This print is and remains the property of Vindicator Technologies, Inc.				

# MR-50 Vindicator Wiegand Interface

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

## Primary Power:

12 to 24 Vdc, 150mA Maximum (plus reader current)  
 12 Vdc @ 110 mA (plus reader current) nominal  
 24 Vdc @ 60mA (plus reader current) nominal

## Outputs:

Form-C Contacts: K1: 5A @ 28Vdc, K2: 1A @ 28Vdc

## Inputs:

2 Supervised, End of Line resistors, 1k/1k ohm, 1% ¼ Watt Standard.  
 1 Unsupervised, dedicated for cabinet tamper.

## Reader Interface:

Reader Power: 12 to 24Vdc (Input voltage passed through)  
 Reader LED Output: TTL Compatible, high > 3V, low < 0.5V, 5mA source/sink max  
 Buzzer Output: Open collector, 5Vdc open circuit Max, 10mA sink max  
 Reader data inputs: TTL Compatible inputs or 2-wire RS-485

## Communications:

RS-485, 2-wire. 2400, 9600, 19200, or 38400bps

## Cable Requirements:

Power: 18AWG, 1 twisted pair.  
 RS-485: 24AWG, 120ohm impedance, twisted pair with shield, 4000' (1,219m) maximum.

## Alarm Inputs:

1 twisted pair per input, 30 ohms maximum.

## Outputs:

As required for the load.

## Reader data (TTL):

18AWG, 6 conductor, 500' (150m) Maximum.

## Reader data (RS-485)

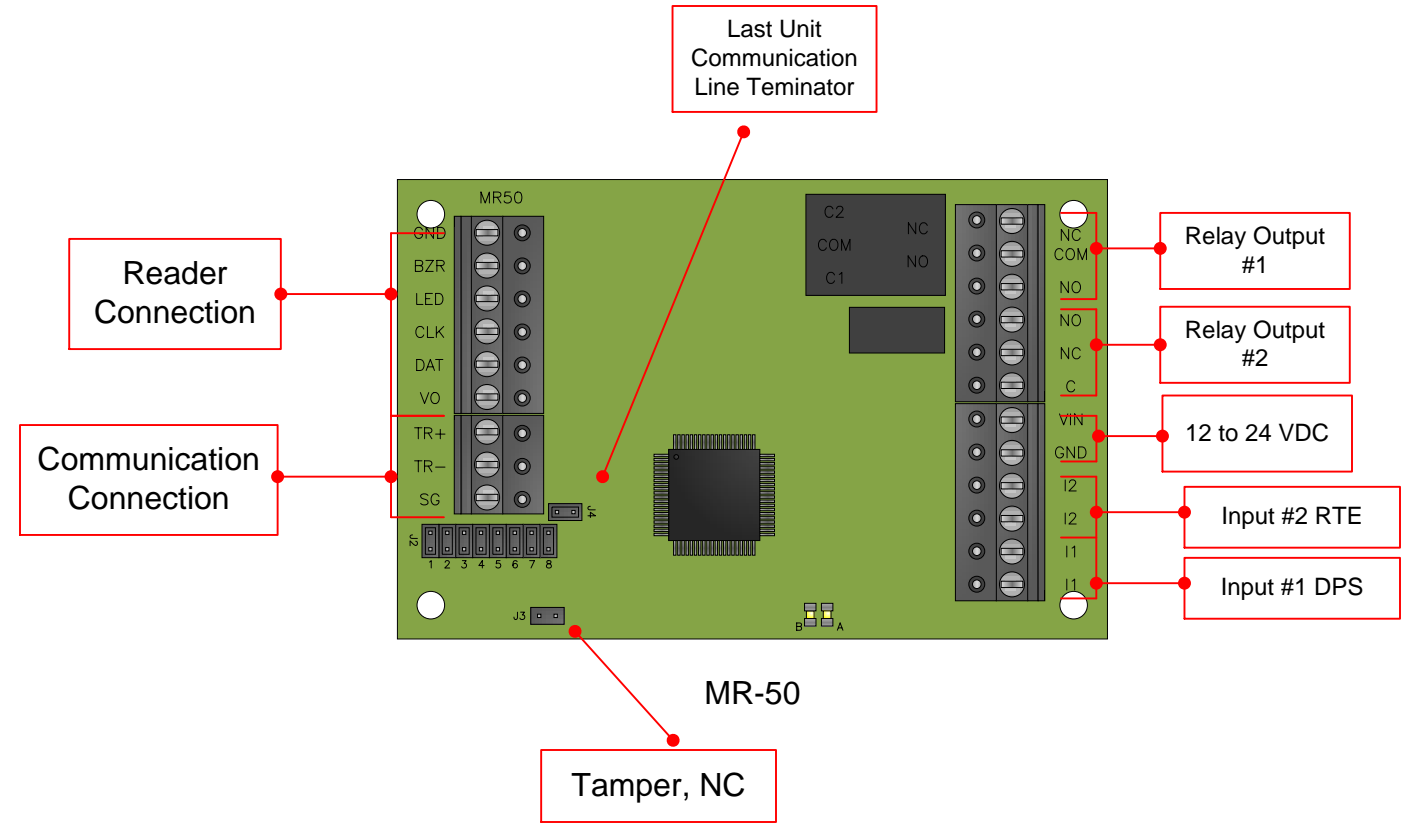
24AWG, 120 ohm impedance, twisted pair with shield, 4000' (1,219m) Maximum.

## Mechanical:

Dimension: 4.25" (108mm)W x 2.75" (70mm)L x 1" (25.4mm)H  
 Weight: 4oz. (120g) Nominal

## Environment:

Temperature: -55 C to +85 C, Storage  
 -40 C to +75 C, operating.  
 Humidity: 10% to 95% RHNC



### MR-50 J2 Jumper Selects

Address	Baud Rate	See Note
1 2 3 4 5	6 7	8

### Baud Rate Select

2400	19200
9600	38400

0=	16=
1=	17=
2=	18=
3=	19=
4=	20=
5=	21=
6=	22=
7=	23=
8=	24=
9=	25=
10=	26=
11=	27=
12=	28=
13=	29=
14=	30=
15=	31=

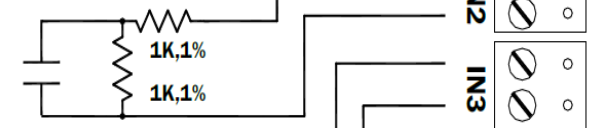
**1k Normal  
2k Alarm**

**Standard Supervised Circuit,  
Normally Closed Contact**



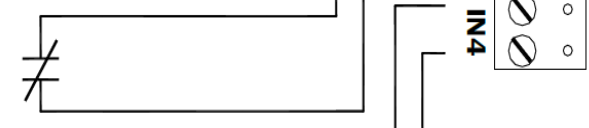
**2k Normal  
1k Alarm**

**Standard Supervised Circuit,  
Normally Open Contact**



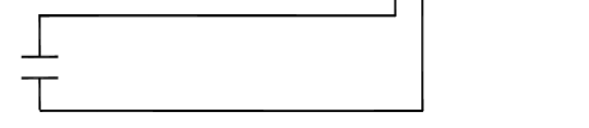
**N.C. (Open!)**

**Unsupervised Circuit,  
Normally Closed Contact**



**N.O. (Short!)**

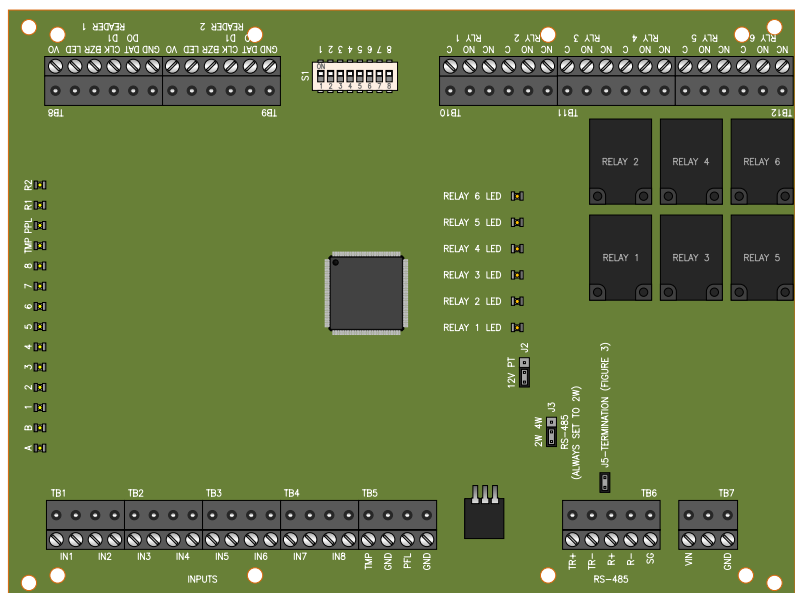
**Unsupervised Circuit,  
Normally Open Contact**



CONTRACT NO		<b>Honeywell</b>	
DWN BY JOEY WEBB		VINDICATOR TECHNOLOGIES, INC.	
DATE 1/30/2020		3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741	
SCALE Not to Scale		MR-50	
FSCM NO	DWG NO V-121	REV 3.0	SHEET 21 OF 25
This print is and remains the property of Vindicator Technologies, Inc.			

# MR-52 Vindicator Wiegand Interface

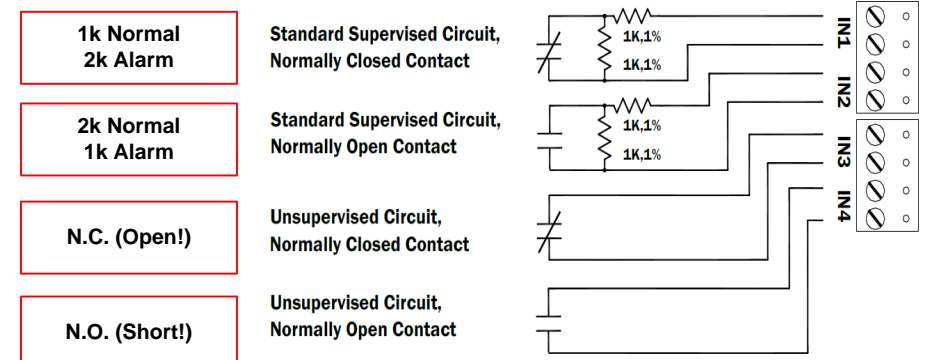
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



## MR-52 Addressing

Selection	S1	S2	S3	S4	S5
Address 0	OFF	OFF	OFF	OFF	OFF
Address 1	ON	OFF	OFF	OFF	OFF
Address 2	OFF	ON	OFF	OFF	OFF
Address 3	ON	ON	OFF	OFF	OFF
Address 4	OFF	OFF	ON	OFF	OFF
Address 5	ON	OFF	ON	OFF	OFF
Address 6	OFF	ON	ON	OFF	OFF
Address 7	ON	ON	ON	OFF	OFF
Address 8	OFF	OFF	OFF	ON	OFF
Address 9	ON	OFF	OFF	ON	OFF
Address 10	OFF	ON	OFF	ON	OFF
Address 11	ON	ON	OFF	ON	OFF
Address 12	OFF	OFF	ON	ON	OFF
Address 13	ON	OFF	ON	ON	OFF
Address 14	OFF	ON	ON	ON	OFF
Address 15	ON	ON	ON	ON	OFF
Address 16	OFF	OFF	OFF	OFF	ON
Address 17	ON	OFF	OFF	OFF	ON
Address 18	OFF	ON	OFF	OFF	ON
Address 19	ON	ON	OFF	OFF	ON
Address 20	OFF	OFF	ON	OFF	ON
Address 21	ON	OFF	ON	OFF	ON
Address 22	OFF	ON	ON	OFF	ON
Address 23	ON	ON	ON	OFF	ON
Address 24	OFF	OFF	OFF	ON	ON
Address 25	ON	OFF	OFF	ON	ON
Address 26	OFF	ON	OFF	ON	ON
Address 27	ON	ON	OFF	ON	ON
Address 28	OFF	OFF	ON	ON	ON
Address 29	ON	OFF	ON	ON	ON
Address 30	OFF	ON	ON	ON	ON
Address 31	ON	ON	ON	ON	ON

## MR-52 Inputs Configurations



- Primary Power:** 12-24 VDC +/- 10%, 550mA maximum  
12Vdc @ 450mA nominal  
24Vdc @ 270mA nominal
- Communication:** RS-485, 2-wire, 4,000' (twisted pair with shield, Belden 9841)
- Reader Ports:** 2 Reader Ports  
**Power:** 12 Vdc regulated, 125mA each reader  
Data Card/Keypad Clock/Data, Data-1/Data-0, or RS-485
- Keypad:** 8-bit Mercury, 8-bit Dorado, 4-bit HID
- LED:** One-wire bi-color LED support, or two-wire
- Buzzer:** Only with 'one-wire' LED
- Inputs:** 8 General purpose: programmable circuit type  
2 Dedicated: Tamper and Power Monitor
- Outputs:** 6 Relays: Form-C, 5 Amp 28 Vdc
- Dimensions:** 6.0' W x 8.0' L x 1.0' H, (152mm W x 203mm L x 25mm H)
- Temperature:** 0-70 C operational, -55-85 C storage
- Humidity:** 0 to 95% RHNC

Selection	S6	S7
2,400 BPS	OFF	OFF
9,600 BPS	ON	OFF
19,200 BPS	OFF	ON
38,400 BPS	ON	ON

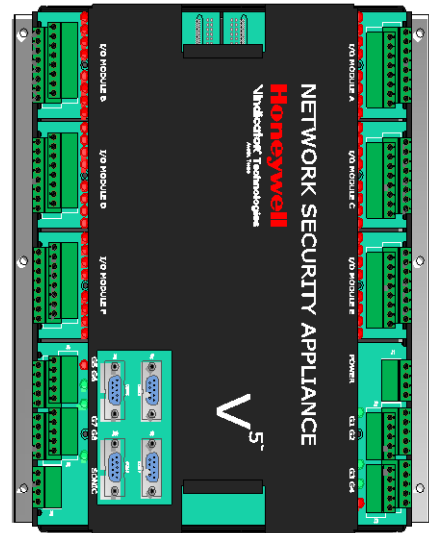
Selection	S8
NOT USED	OFF

CONTRACT NO		 VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741	
DWN BY	CHK BY		
DATE	SIZE	MR-52	
1/30/2020	17"X11"		
SCALE	WEIGHT		
Not to Scale			
FSCM NO	DWG NO	REV	SHEET
	V-122	3.0	22 OF 25
This print is and remains the property of Vindicator Technologies, Inc.			

# RS485 READER BUS PORTS AND MR DEVICES

DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

## V5 ACS



- \* 10 MAX Recommended MR Devices per Reader Bus.
- \* 6 MAX Recommended Reader Bus Ports Used Per V5 ACS.

**Use Belden 9841 for the RS485 Reader Bus**

### V5 ACS Serial Port Configuration

Port Function: Mercury Security

Instance: 1 – 6

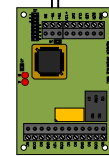
Baud: 9600, 38400

Format: 8-N-1

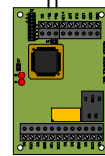
Full Duplex: NO

Default = Mercury Security Ports G3 and G5

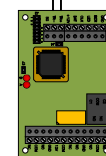
Belden 9841



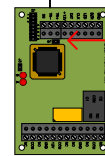
MR-50



MR-50

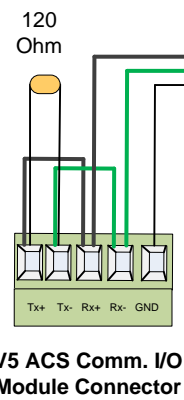


MR-50

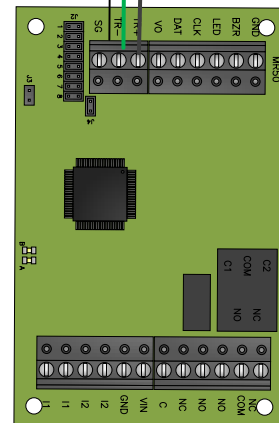


MR-50

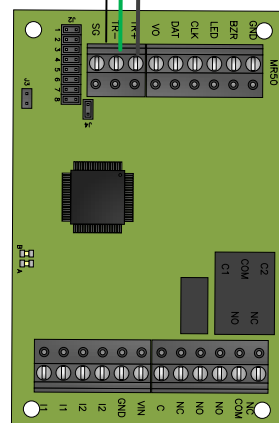
MR-50  
RS485  
Terminated  
Set



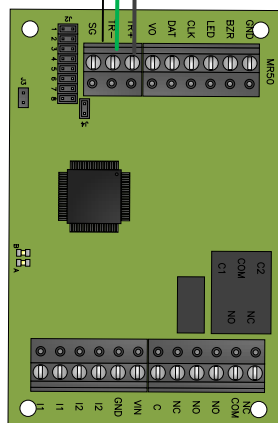
120 Ohm



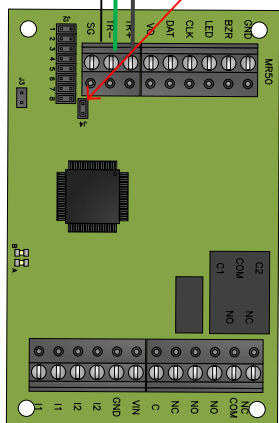
MR-50



MR-50



MR-50



MR-50

MR-50  
RS485  
Terminated  
Set

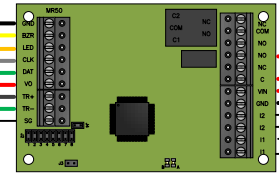
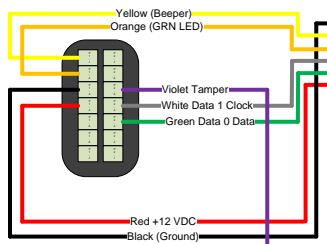
CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY JOEY WEBB	CHK BY			
DATE 1/30/2020	SIZE 17"X11"	MR DEVICES RS-485 READER BUS PORT CONFIGURATION		
SCALE Not to Scale	WEIGHT	DWG NO V-123	REV 3.0	SHEET 23 OF 25
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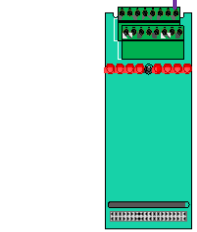
DWG NO	-	SH	REV	
		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

Pigtail	Terminal	Description	Pigtail	Terminal	Description
Yellow	P1-1	Beeper Input	Red / Green	P2-1	*GPIO1 (RD232-T / RS485-FDX/HDX-A)
Orange	P1-2	LED Input (GRN)	Tan	P2-2	*GPIO2 (RS232-R / RS485-FDX/HDX-B)
Black	P1-3	Ground (RTN)	Violet	P2-3	** Open Collector Output / Tamper
Red	P1-4	+VDC	White	P2-4	*** Wiegand Data 1 / Clock
Drain	P1-5	Unused	Green	P2-5	*** Wiegand Data 0 / Clock
Brown	P1-6	LED Input (RED)	Pink	P2-6	* GPIO3 (RS485-FDX-Z)
Blue	P1-7	Hold Input	Gray	P2-7	* GPIO4 (RS485-FDX-Y)

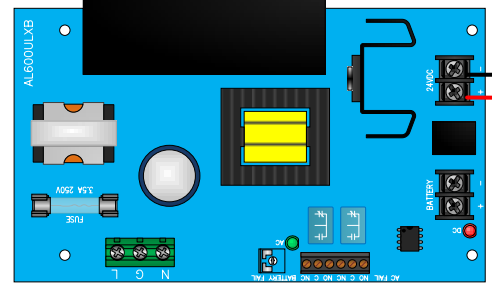
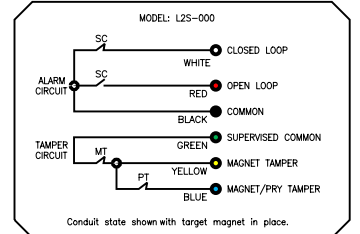
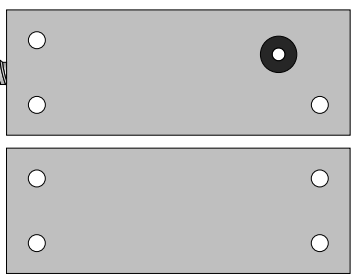
\* RS-485 Applicable for pivCLASS readers.  
 \*\* Tamper Output - When active, output synchronizes to ground (default)  
 \*\*\* Dependent upon reader configuration. See the HTOG for Wiegand and Clock-in-Data Configuration



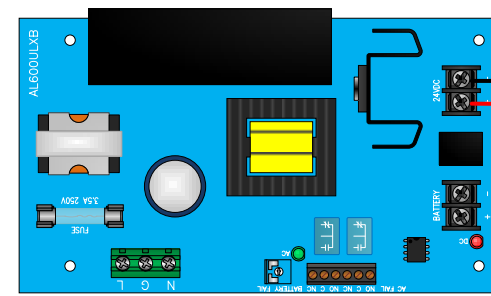
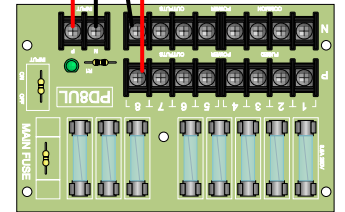
MR-50



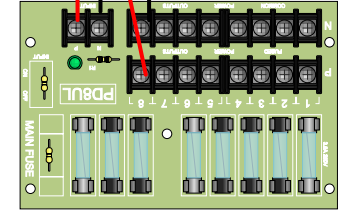
V5 ACS  
Comm. I/O  
Module  
Connector



12 Volt DC Power Supply  
For MR-50 and Reader

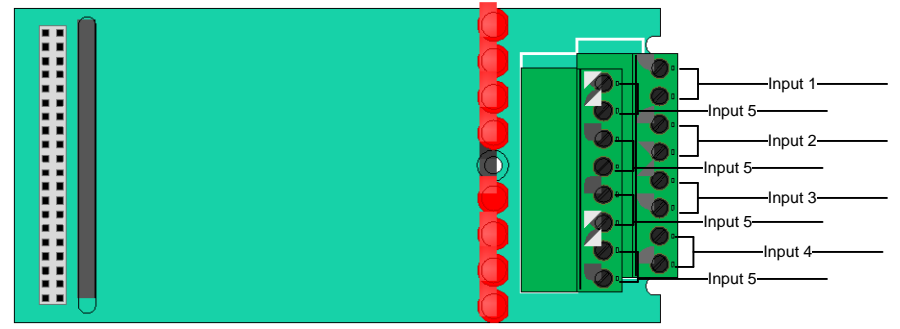


24 Volt DC Power Supply  
For Locks

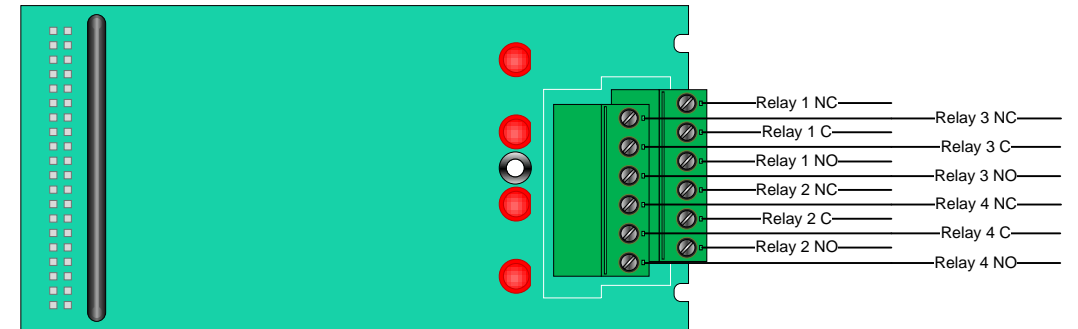


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DWN BY JOEY WEBB	CHK BY			
DATE 1/30/2020	SIZE 17"X11"	MR DEVICES CONNECTION AND POWER DETAIL		
SCALE Not to Scale	WEIGHT			
FSCM NO	DWG NO V-125	REV 3.0	SHEET 24 OF 25	
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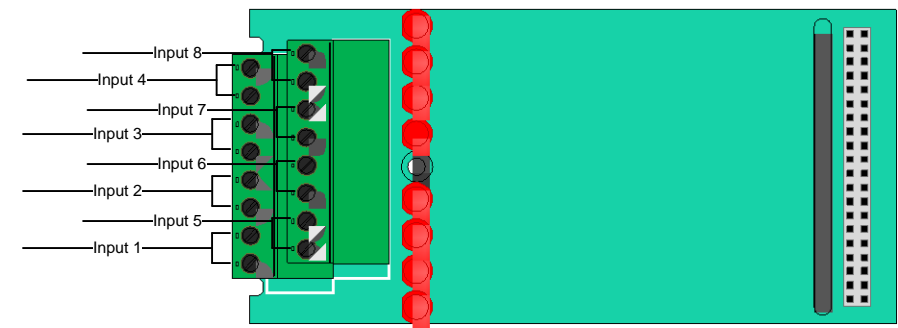
DWG NO	-	SH	REV	
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-



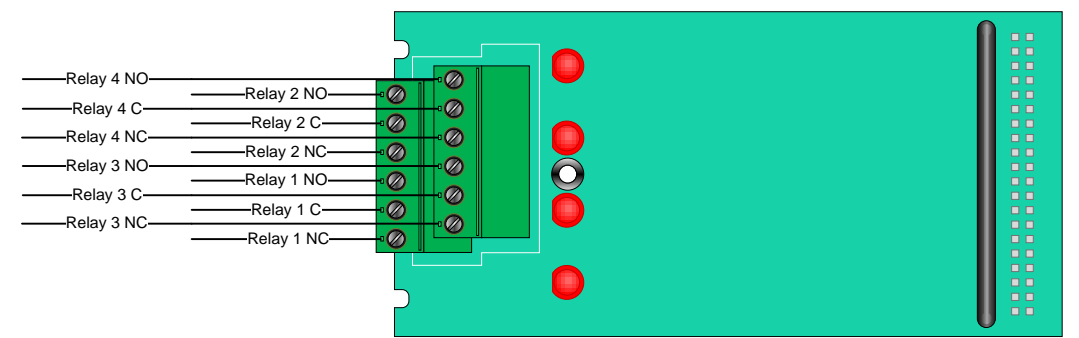
**SIM**



**ROM**



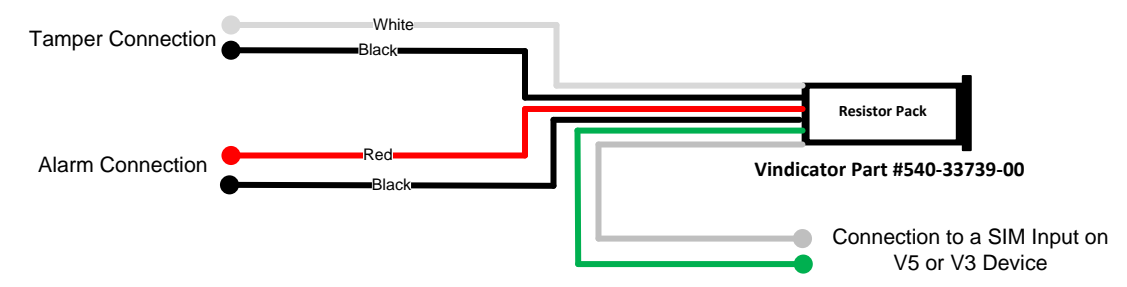
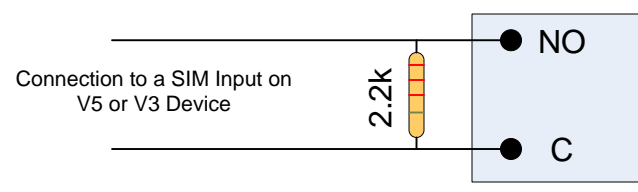
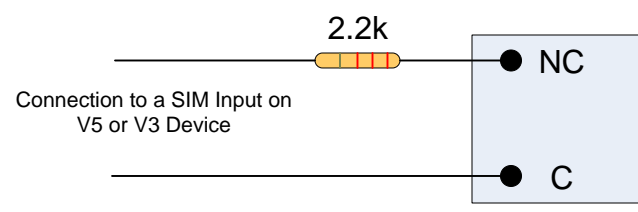
**SIM**



**ROM**

**SIM – Sensor Input Module**  
 8 Inputs  
 8 – LED  
 (ON = Alarm / OFF = Secure)

**ROM – Relay Output Module**  
 4 Outputs  
 4 LED  
 (ON = Active)



CONTRACT NO		<b>Honeywell</b> VINDICATOR TECHNOLOGIES, INC. 3019 Alvin Devane Blvd., Bldg 4, Suite 430 Austin TX 78741		
DWN BY	CHK BY			
DATE	SIZE	SIM AND ROM		
1/30/2020	17"X11"			
SCALE	WEIGHT	DWG NO		
Not to Scale		V-125	REV	SHEET
FSCM NO			3.0	25 OF 25

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