

	8	7	6	5	4	3	2	1		
							REV.	DESCRIPTION	DATE	BY
H							A	ORIGINAL	05/20/22	BAF
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C							NOTES:			
							This document lists the quantities required of each PN for each harness assembly and which devices use which harness assemblies:			
							<ul style="list-style-type: none">AVWS Units require AVWS/ACU Power Harness OnlyACU Units require AVWS/ACU Power Harness, ACU Zone Input Harness, ACU Zone Output HarnessBoth Units can use the optional AVWS/ACU Battery Power Adapter			
B										
A										
	8	7	6	5	4	3	2	1		

ITEM	QTY.	PART NO.	DESCRIPTION
AVWS/ACU Power Harness	1	ACU-X1-MAIN	Main Power Harness; MX150L 4-pin TO: MX150 2-pin; Weather-Pack 2-pin
	1	ACU-X1-JD	John Deere Power Adapter; MX150 2-pin to John Deere Plug
ACU Zone Input Harness	1	ACU-X2-MAIN	ACU Zone Input Harness; MX150L 8-pin TO: 3x MX150 2-pin "Key B"
	3	ACU-X2-IN	ACU Zone Input Lead Set; MX150 2-pin TO: Bare Stripped Wire Ends
	2	ACU-X2-IN-CAP	ACU Zone Input Cap for Unused Zone Input; MX150 2-pin cap w/Cavity Plugs
ACU Zone Output Harness	1	ACU-X3-MAIN	ACU Zone Output Harness; MX150L 6-pin TO: 3x MX150 2-pin "Key C"
	3	ACU-X3-OUT	ACU Zone Output Lead Set; MX150 2-pin TO: Bare Stripped Wire Ends
	2	ACU-X3-OUT-CAP	ACU Zone Output Resistor Loopback Cap for Unused Zone Output
OPTIONAL	OPT	OPTIONAL	OPTIONAL
AVWS/ACU Batt Pwr Adapter	1	ACU-X1-POWER	Power Adapter for Battery; MX150 2-pin to Bare Stripped Wire Ends

REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF

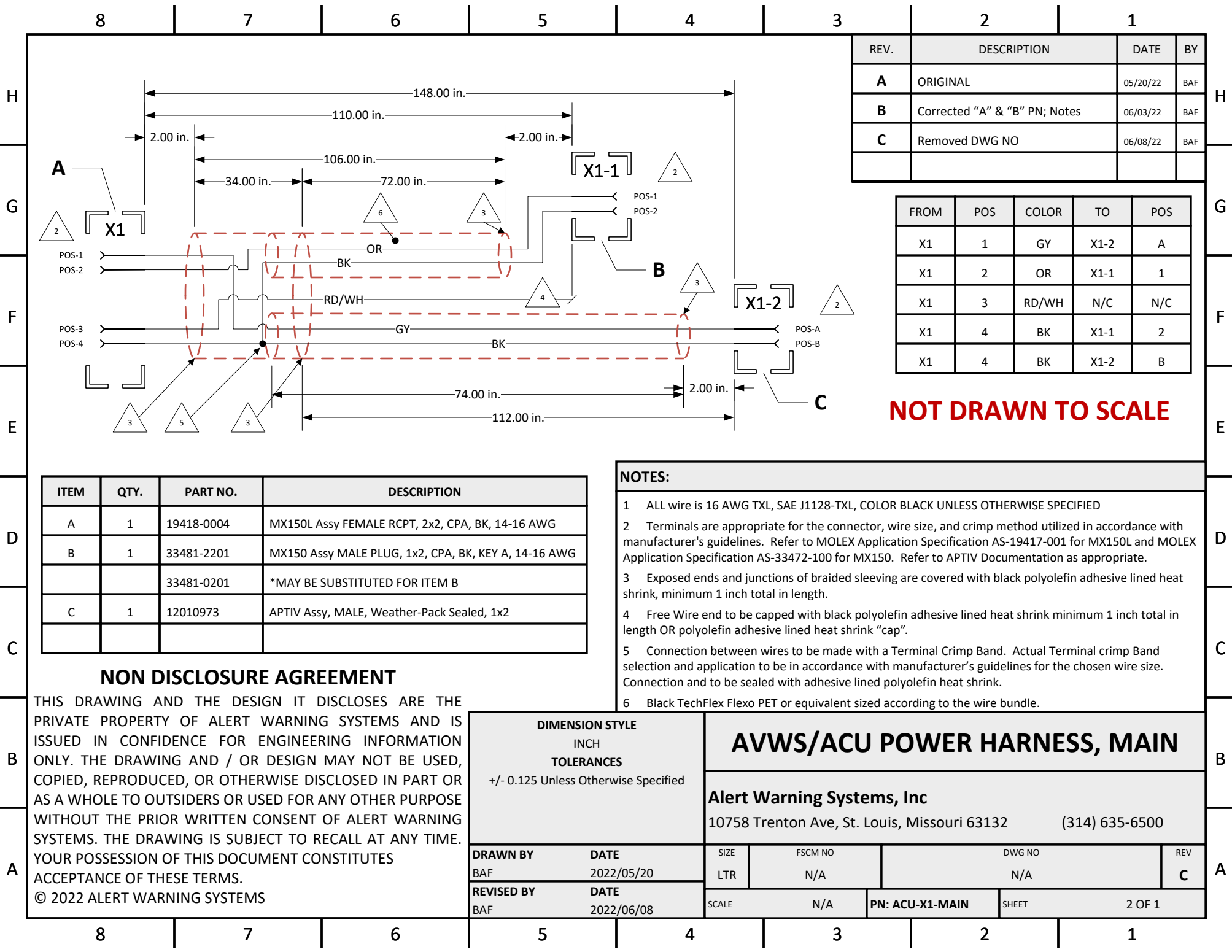
NOTES:
<p>This document lists the quantities required of each PN for each harness assembly and which devices use which harness assemblies:</p> <ul style="list-style-type: none"> AVWS Units require AVWS/ACU Power Harness Only ACU Units require AVWS/ACU Power Harness, ACU Zone Input Harness, ACU Zone Output Harness Both Units can use the optional AVWS/ACU Battery Power Adapter

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DIMENSION STYLE		AVWS/ACU HARNESS ASSEMBLIES			
INCH					
TOLERANCES					
+/- 0.125 Unless Otherwise Specified					
		Alert Warning Systems, Inc			
		10758 Trenton Ave, St. Louis, Missouri 63132		(314) 635-6500	
DRAWN BY	DATE	SIZE	FSCM NO	DWG NO	REV
BAF	2022/06/08	LTR	N/A	N/A	A
REVISED BY	DATE	SCALE	N/A	PN: N/A	SHEET
					1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" & "B" PN; Notes	06/03/22	BAF
C	Removed DWG NO	06/08/22	BAF

FROM	POS	COLOR	TO	POS
X1	1	GY	X1-2	A
X1	2	OR	X1-1	1
X1	3	RD/WH	N/C	N/C
X1	4	BK	X1-1	2
X1	4	BK	X1-2	B

NOT DRAWN TO SCALE

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	19418-0004	MX150L Assy FEMALE RCPT, 2x2, CPA, BK, 14-16 AWG
B	1	33481-2201	MX150 Assy MALE PLUG, 1x2, CPA, BK, KEY A, 14-16 AWG
		33481-0201	*MAY BE SUBSTITUTED FOR ITEM B
C	1	12010973	APTIV Assy, MALE, Weather-Pack Sealed, 1x2

NOTES:

- ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
- Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150. Refer to APTIV Documentation as appropriate.
- Exposed ends and junctions of braided sleeving are covered with black polyolefin adhesive lined heat shrink, minimum 1 inch total in length.
- Free Wire end to be capped with black polyolefin adhesive lined heat shrink minimum 1 inch total in length OR polyolefin adhesive lined heat shrink "cap".
- Connection between wires to be made with a Terminal Crimp Band. Actual Terminal crimp Band selection and application to be in accordance with manufacturer's guidelines for the chosen wire size. Connection and to be sealed with adhesive lined polyolefin heat shrink.
- Black TechFlex Flexo PET or equivalent sized according to the wire bundle.

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DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		AVWS/ACU POWER HARNESS, MAIN			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO N/A	REV c
REVISED BY BAF	DATE 2022/06/08	SCALE N/A	PN: ACU-X1-MAIN	SHEET 2 OF 1	

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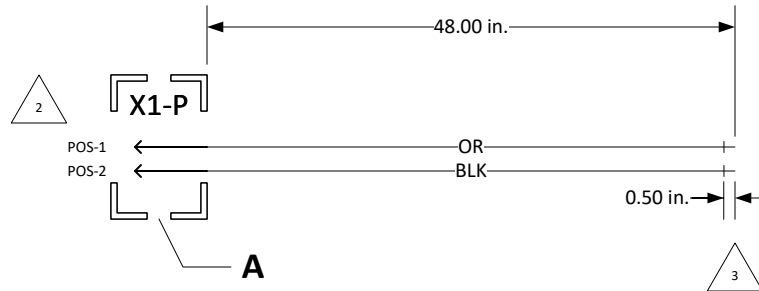
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REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" Part Number	06/03/22	BAF
C	Removed DWG NO	06/08/22	BAF



FROM	POS	COLOR	TO	POS
X1-P	1	OR	N/C	N/C
X1-P	2	BK	N/C	N/C

NOT DRAWN TO SCALE

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33471-0206	MX150 Assy FEMALE RCPT, 1x2, CPA, BLK, KEY A

NOTES:

- 1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
- 2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
- 3 The free ends to be pre-cut 0.50 in. and partial stripped.

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DIMENSION STYLE

INCH

TOLERANCES

+/- 0.125 Unless Otherwise Specified

AVWS/ACU POWER**Alert Warning Systems, Inc**

10758 Trenton Ave, St. Louis, Missouri 63132

(314) 635-6500

DRAWN BY	DATE
BAF	2022/05/20
REVISED BY	DATE
BAF	2022/06/08

SIZE	FSCM NO	DWG NO	REV
LTR	N/A	N/A	B
SCALE	N/A	PN: ACU-X1-POWER	SHEET
			1 OF 1

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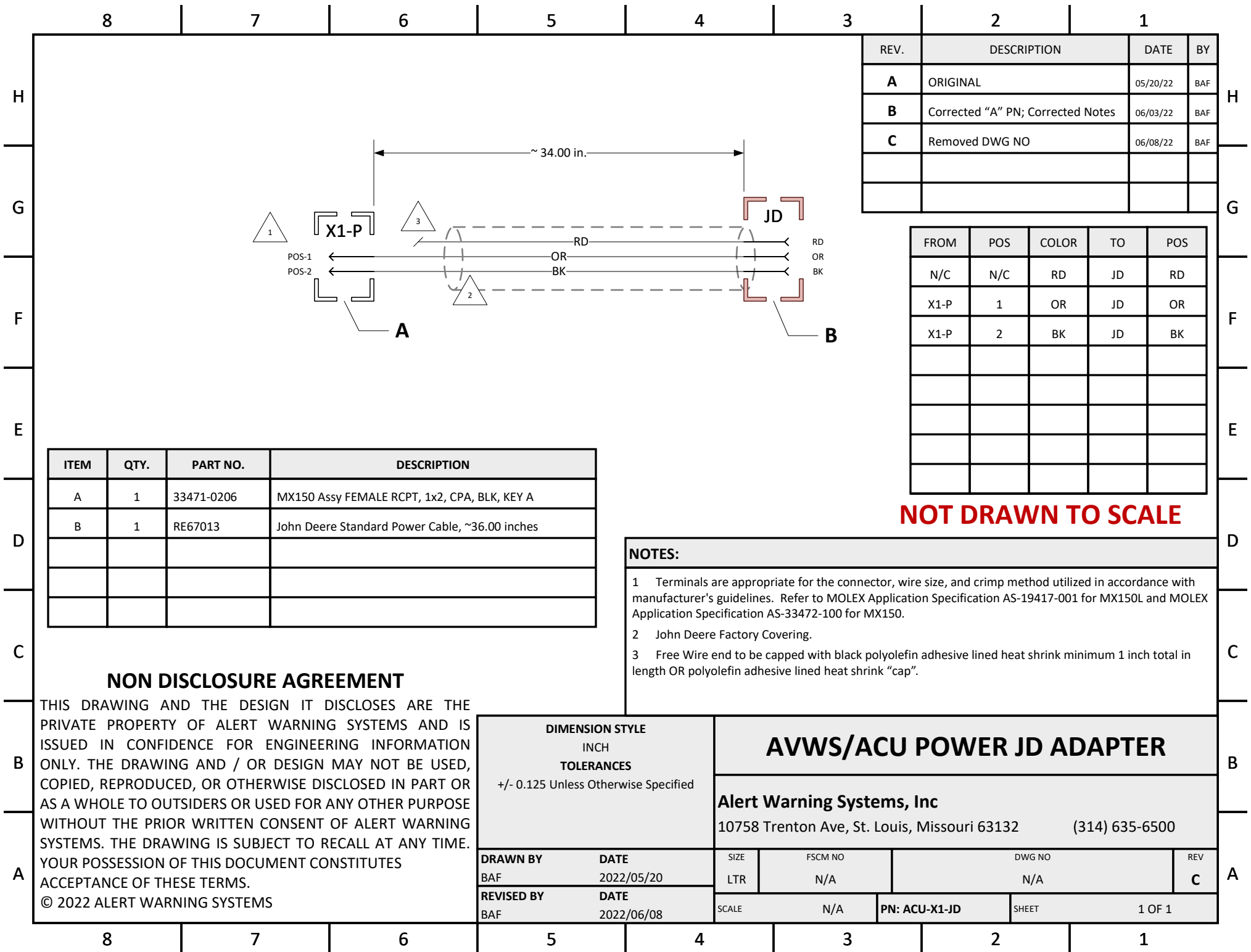
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REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" PN; Corrected Notes	06/03/22	BAF
C	Removed DWG NO	06/08/22	BAF

FROM	POS	COLOR	TO	POS
N/C	N/C	RD	JD	RD
X1-P	1	OR	JD	OR
X1-P	2	BK	JD	BK

NOT DRAWN TO SCALE

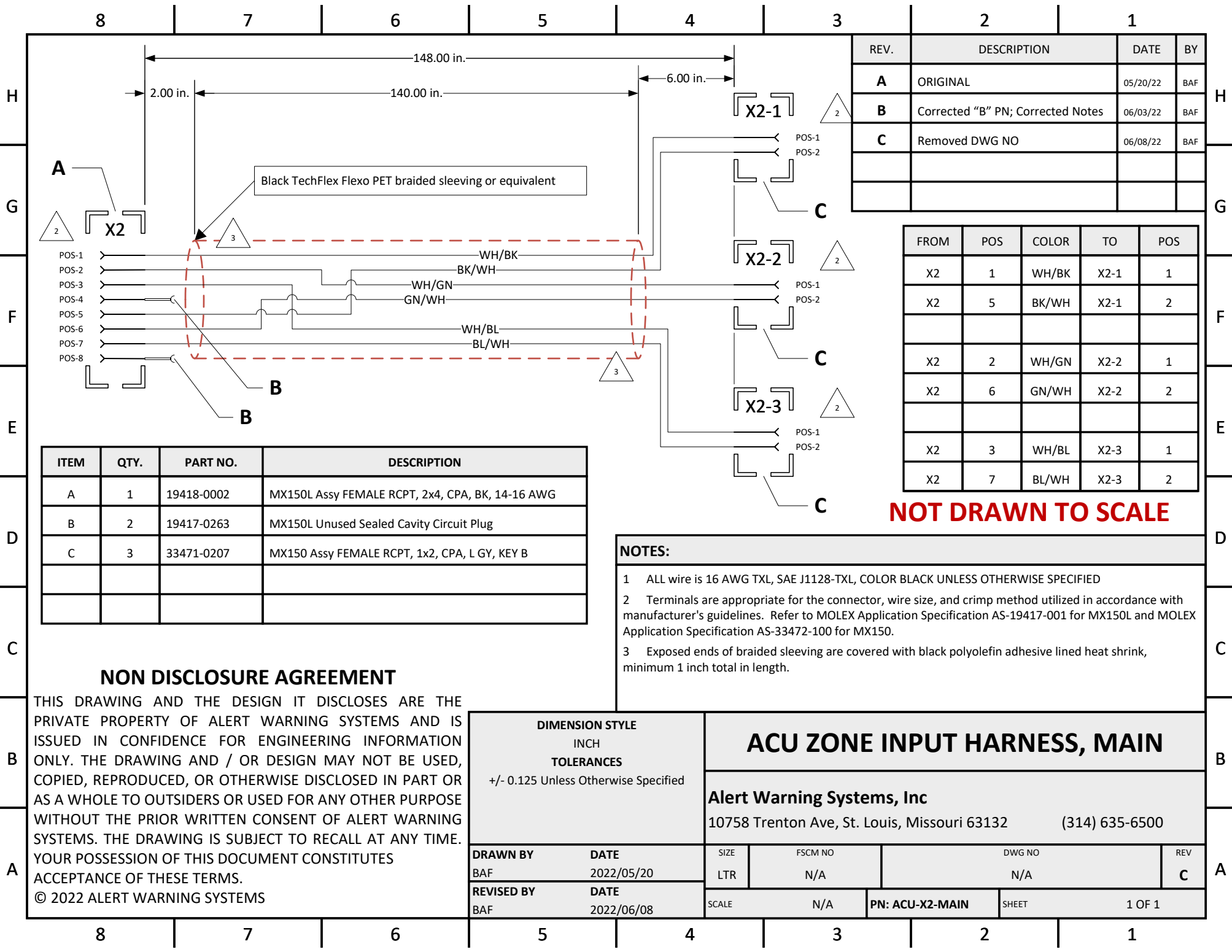
NOTES:
1 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
2 John Deere Factory Covering.
3 Free Wire end to be capped with black polyolefin adhesive lined heat shrink minimum 1 inch total in length OR polyolefin adhesive lined heat shrink "cap".

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33471-0206	MX150 Assy FEMALE RCPT, 1x2, CPA, BLK, KEY A
B	1	RE67013	John Deere Standard Power Cable, ~36.00 inches

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DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		AVWS/ACU POWER JD ADAPTER			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO N/A	REV C
REVISED BY BAF	DATE 2022/06/08	SCALE N/A	PN: ACU-X1-JD	SHEET 1 OF 1	



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "B" PN; Corrected Notes	06/03/22	BAF
C	Removed DWG NO	06/08/22	BAF

FROM	POS	COLOR	TO	POS
X2	1	WH/BK	X2-1	1
X2	5	BK/WH	X2-1	2
X2	2	WH/GN	X2-2	1
X2	6	GN/WH	X2-2	2
X2	3	WH/BL	X2-3	1
X2	7	BL/WH	X2-3	2

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	19418-0002	MX150L Assy FEMALE RCPT, 2x4, CPA, BK, 14-16 AWG
B	2	19417-0263	MX150L Unused Sealed Cavity Circuit Plug
C	3	33471-0207	MX150 Assy FEMALE RCPT, 1x2, CPA, L GY, KEY B

NOT DRAWN TO SCALE

NOTES:
1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
3 Exposed ends of braided sleeving are covered with black polyolefin adhesive lined heat shrink, minimum 1 inch total in length.

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DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE INPUT HARNESS, MAIN			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO N/A	REV c
REVISD BY BAF	DATE 2022/06/08	SCALE N/A	PN: ACU-X2-MAIN	SHEET 1 OF 1	

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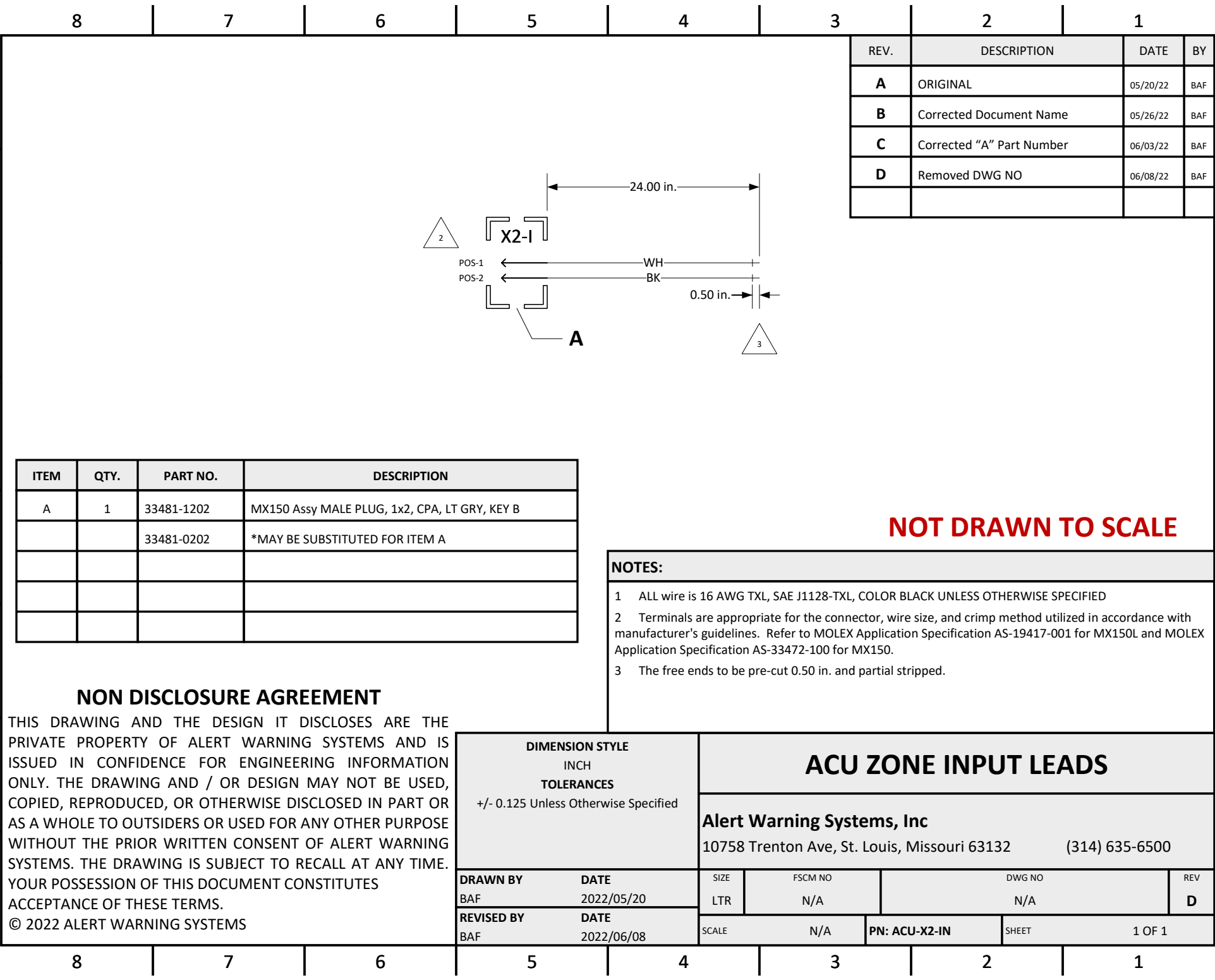
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REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected Document Name	05/26/22	BAF
C	Corrected "A" Part Number	06/03/22	BAF
D	Removed DWG NO	06/08/22	BAF

NOT DRAWN TO SCALE

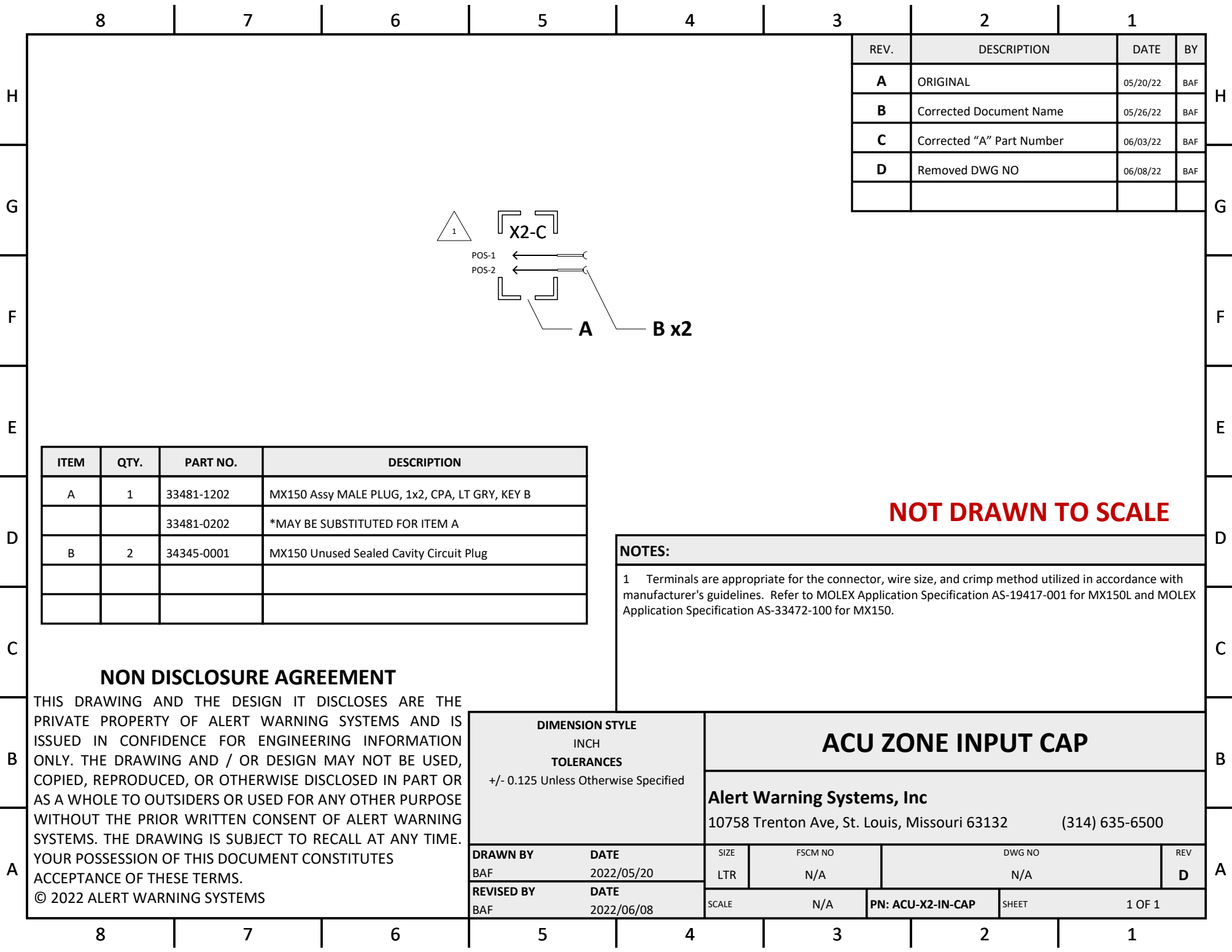
NOTES:
1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
3 The free ends to be pre-cut 0.50 in. and partial stripped.

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DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE INPUT LEADS			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
		SIZE LTR	FSCM NO N/A	DWG NO N/A	REV D
DRAWN BY BAF	DATE 2022/05/20	SCALE N/A		PN: ACU-X2-IN	SHEET 1 OF 1
REVISED BY BAF	DATE 2022/06/08				



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected Document Name	05/26/22	BAF
C	Corrected "A" Part Number	06/03/22	BAF
D	Removed DWG NO	06/08/22	BAF

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33481-1202	MX150 Assy MALE PLUG, 1x2, CPA, LT GRY, KEY B
		33481-0202	*MAY BE SUBSTITUTED FOR ITEM A
B	2	34345-0001	MX150 Unused Sealed Cavity Circuit Plug

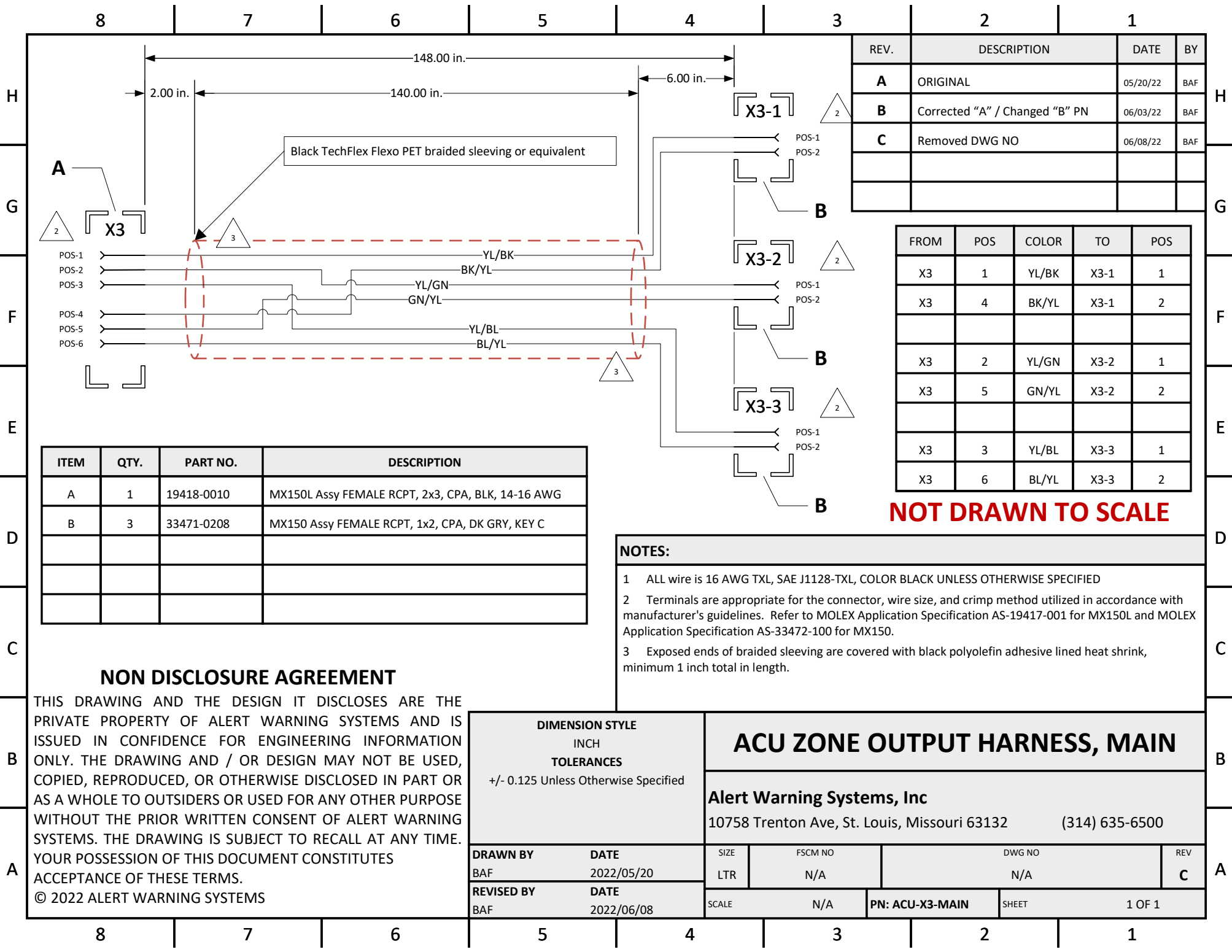
NOT DRAWN TO SCALE

NOTES:
1 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.

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DIMENSION STYLE		ACU ZONE INPUT CAP			
INCH					
TOLERANCES					
+/- 0.125 Unless Otherwise Specified					
		Alert Warning Systems, Inc			
		10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY	DATE	SIZE	FSCM NO	DWG NO	REV
BAF	2022/05/20	LTR	N/A	N/A	D
REVISED BY	DATE	SCALE	N/A	PN: ACU-X2-IN-CAP	SHEET
BAF	2022/06/08				1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" / Changed "B" PN	06/03/22	BAF
C	Removed DWG NO	06/08/22	BAF

FROM	POS	COLOR	TO	POS
X3	1	YL/BK	X3-1	1
X3	4	BK/YL	X3-1	2
X3	2	YL/GN	X3-2	1
X3	5	GN/YL	X3-2	2
X3	3	YL/BL	X3-3	1
X3	6	BL/YL	X3-3	2

NOT DRAWN TO SCALE

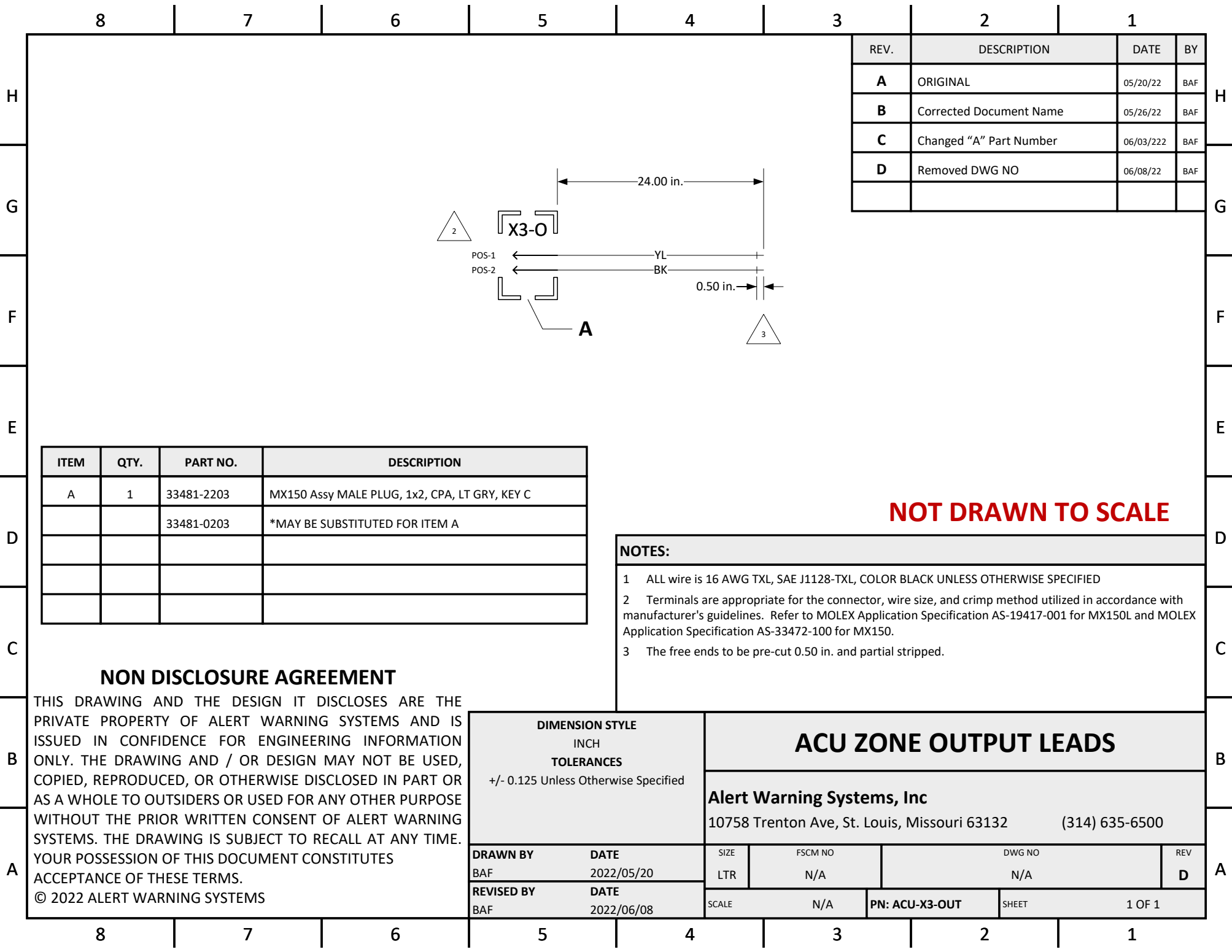
NOTES:
1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
3 Exposed ends of braided sleeving are covered with black polyolefin adhesive lined heat shrink, minimum 1 inch total in length.

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	19418-0010	MX150L Assy FEMALE RCPT, 2x3, CPA, BLK, 14-16 AWG
B	3	33471-0208	MX150 Assy FEMALE RCPT, 1x2, CPA, DK GRY, KEY C

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DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE OUTPUT HARNESS, MAIN			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO N/A	REV c
REVISED BY BAF	DATE 2022/06/08	SCALE N/A	PN: ACU-X3-MAIN	SHEET 1 OF 1	



ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33481-2203	MX150 Assy MALE PLUG, 1x2, CPA, LT GRY, KEY C
		33481-0203	*MAY BE SUBSTITUTED FOR ITEM A

NOT DRAWN TO SCALE

NOTES:

1

ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED

2

Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.

3

The free ends to be pre-cut 0.50 in. and partial stripped.

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DIMENSION STYLE

INCH

TOLERANCES

+/- 0.125 Unless Otherwise Specified

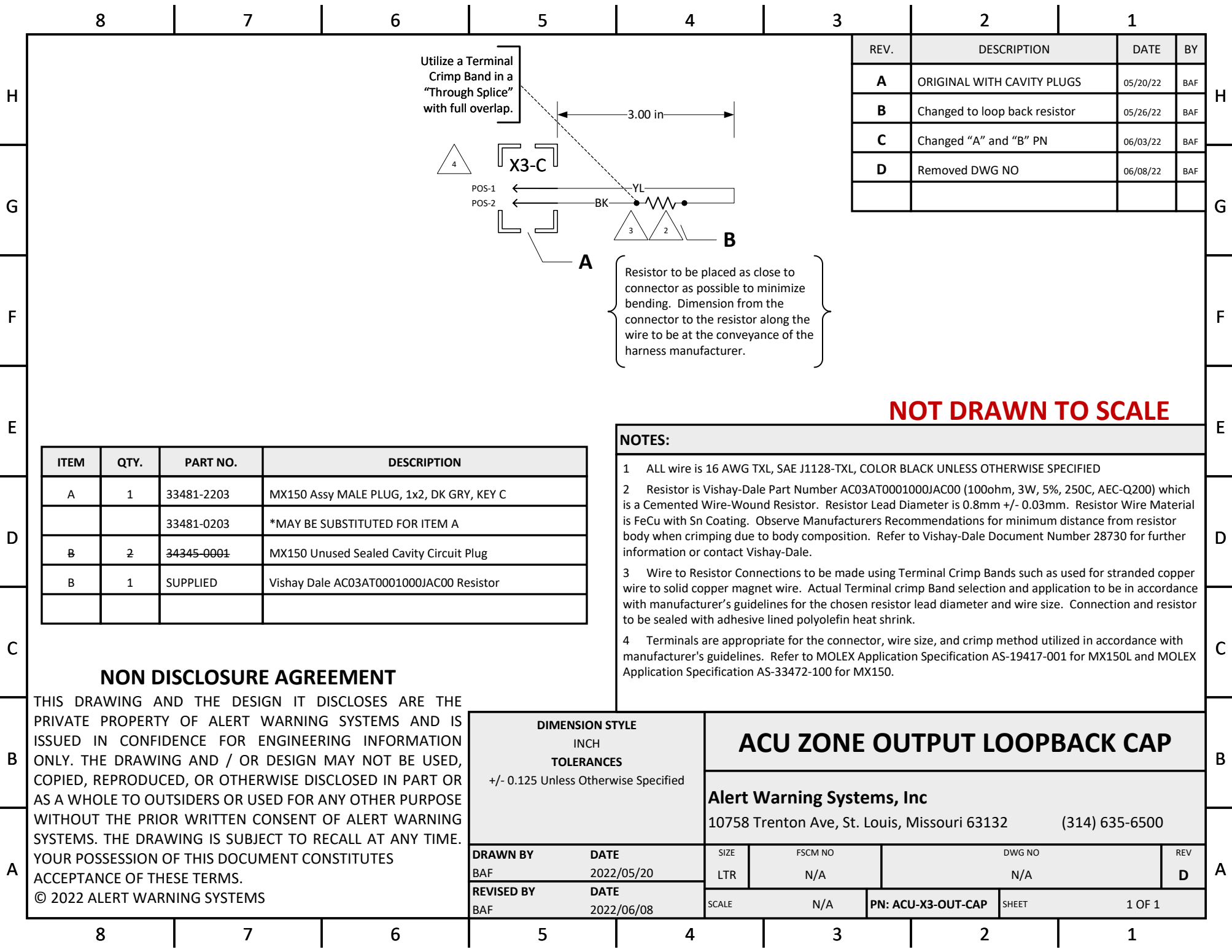
ACU ZONE OUTPUT LEADS

Alert Warning Systems, Inc

10758 Trenton Ave, St. Louis, Missouri 63132

(314) 635-6500

DRAWN BY	DATE	SIZE	FSCM NO	DWG NO	REV
BAF	2022/05/20	LTR	N/A	N/A	D
REVISED BY	DATE	SCALE	N/A	PN: ACU-X3-OUT	SHEET
BAF	2022/06/08				1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL WITH CAVITY PLUGS	05/20/22	BAF
B	Changed to loop back resistor	05/26/22	BAF
C	Changed "A" and "B" PN	06/03/22	BAF
D	Removed DWG NO	06/08/22	BAF

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33481-2203	MX150 Assy MALE PLUG, 1x2, DK GRY, KEY C
		33481-0203	*MAY BE SUBSTITUTED FOR ITEM A
B	2	34345-0001	MX150 Unused Sealed Cavity Circuit Plug
B	1	SUPPLIED	Vishay Dale AC03AT0001000JAC00 Resistor

NOTES:

- ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
- Resistor is Vishay-Dale Part Number AC03AT0001000JAC00 (100ohm, 3W, 5%, 250C, AEC-Q200) which is a Cemented Wire-Wound Resistor. Resistor Lead Diameter is 0.8mm +/- 0.03mm. Resistor Wire Material is FeCu with Sn Coating. Observe Manufacturers Recommendations for minimum distance from resistor body when crimping due to body composition. Refer to Vishay-Dale Document Number 28730 for further information or contact Vishay-Dale.
- Wire to Resistor Connections to be made using Terminal Crimp Bands such as used for stranded copper wire to solid copper magnet wire. Actual Terminal crimp Band selection and application to be in accordance with manufacturer's guidelines for the chosen resistor lead diameter and wire size. Connection and resistor to be sealed with adhesive lined polyolefin heat shrink.
- Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.

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DIMENSION STYLE

INCH

TOLERANCES

+/- 0.125 Unless Otherwise Specified

ACU ZONE OUTPUT LOOPBACK CAP

Alert Warning Systems, Inc

10758 Trenton Ave, St. Louis, Missouri 63132

(314) 635-6500

DRAWN BY

BAF

DATE

2022/05/20

REVISED BY

BAF

DATE

2022/06/08

SIZE

LTR

FSCM NO

N/A

DWG NO

N/A

REV

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SCALE

N/A

PN: ACU-X3-OUT-CAP

SHEET

1 OF 1