

# TRIVE™

Access & Power Integration

## Trove1DR1

- Trove1 enclosure with Altronix/DIN Rail backplane (TDR1)

## TDR1

- Altronix/DIN Rail backplane only

## Trove2DR2

- Trove2 enclosure with Altronix/DIN Rail backplane (TDR2)

## TDR2

- Altronix/DIN Rail backplane only

## Trove3DR3

- Trove3 enclosure with Altronix/DIN Rail backplane (TV3)

## Installation Guide

SECURITY SECURITY SIGNALING



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Rev. TDR030926

Installing Company: \_\_\_\_\_ Service Rep. Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone #: \_\_\_\_\_



More than just power.™

## Overview:

Altronix Trove1DR1, Trove2DR2 and Trove3DR3 are designed to easily combine Altronix power and sub-assemblies with DIN Rail mountable products such as access controllers, building automation modules, network switches, utility boxes, terminal blocks and more. The removable backplane accommodates various lengths of DIN Rail to mount in vertically or horizontally, for any security or industrial application.

## Specifications:

- 16 Gauge backplanes and enclosures with ample knockouts for convenient access.

### Trove1DR1

Trove1 enclosure with TDR1

Altronix/DIN Rail backplane

- Includes: tamper switch, cam lock, and mounting hardware.  
Enclosure Dimensions (H x W x D):  
18" x 14.5" x 4.625"  
(457mm x 368mm x 118mm).

### TDR1

Altronix/DIN Rail backplane only

- Includes mounting hardware.  
Dimensions (H x W x D):  
16.625" x 12.5" x 0.3125"  
(422.3mm x 317.5mm x 7.9mm).

TDR1 accommodates a combination of the following:

#### Altronix Modules:

- One (1) ACM8(CB), ACMS8(CB), ACMS12(CB), LINQ8ACM(CB), AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB or eFlow104NB.
- Up to four (4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB) PDS16(CB), LINQ8PD(CB), VR6, VR10.

#### DIN Rail:

- Up to three (3) D12.

### Trove2DR2

Trove2 enclosure with

TDR2 Altronix/DIN Rail backplane

- Includes: tamper switch, cam lock, and mounting hardware.  
Enclosure Dimensions (H x W x D):  
27.25" x 21.75" x 6.5"  
(692.15mm x 552.5mm x 165.1mm).

### TDR2

Altronix/DIN Rail backplane only

- Includes mounting hardware.  
Dimensions (H x W x D):  
25.375" x 19.375" x 0.3125"  
(644.5mm x 482.6mm x 7.9mm).

TDR2 accommodates a combination of the following:

#### Altronix Modules:

- Up to four (4) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB or eFlow104NB. ACM8(CB), ACMS8(CB), ACMS12(CB), LINQ8ACM(CB),
- Up to four (4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB) PDS16(CB), LINQ8PD(CB), VR6, VR10.

#### DIN Rail:

- Up to four (4) D10, with Altronix Power and Sub-Assemblies.
- Up to four (4) D19, no Altronix Power and Sub-Assemblies.
- Up to six (6) D24, no Altronix Power and Sub-Assemblies.

### Trove3DR3

Trove3 enclosure with

TV3 Altronix/DIN Rail backplane

- Includes: two (2) tamper switches, cam lock, and mounting hardware.  
Enclosure Dimensions (H x W x D):  
36.12" x 30.125" x 7.06"  
(917.5mm x 768.1mm x 179.3mm).

### TV3

Altronix/DIN Rail backplane only

- Includes mounting hardware.  
Dimensions (H x W x D):  
34" x 28" x 0.3125"  
(863.6mm x 711.2mm x 7.9mm).

TV3 accommodates a combination of the following:

#### Altronix Modules:

- Up to four (4) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB or eFlow104NB. ACM8(CB), ACMS8(CB), ACMS12(CB), LINQ8ACM(CB),
- Up to four (4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB) PDS16(CB), LINQ8PD(CB), VR6, VR10.

#### DIN Rail:

- Up to four (4) D24 and D10 (vertically) or up to ten (10) D19 (horizontally) with Altronix Power and Sub-Assemblies.
- Up to six (6) D24 and D10 (vertically) or up to ten (10) D24 (horizontally) no Altronix Power and Sub-Assemblies.

## Agency Listings:

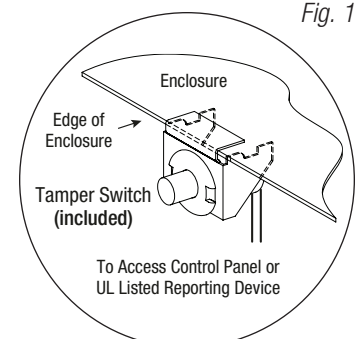
- UL 294 - 6th edition: Line Security I, Destructive Attack I, Endurance IV, Stand-by Power II\*. \*Stand-by Power Level I if no battery is supplied.
- This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- CE European Conformity.

## Installation Instructions for Trove1 and Trove2:

1. Remove backplane from enclosure prior to mounting (do not discard hardware).
2. **Trove1DR1 (Pg. 10):**  
Mark and predrill holes on the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws.

#### **Trove2DR2 (Pg. 12) and Trove3DR3 (pg. ??):**

1. Mark and predrill holes on the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the three upper screws; level and secure. Mark the position of the lower three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch(es) (Altronix Model TS112 or equivalent) in desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side (Fig. 1, pg. 2). Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.
4. Mount Altronix/DIN Rail to backplane, refer to *pages 3-5*.



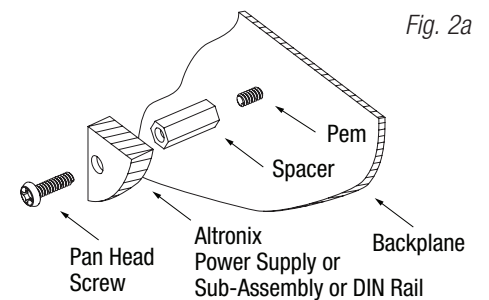
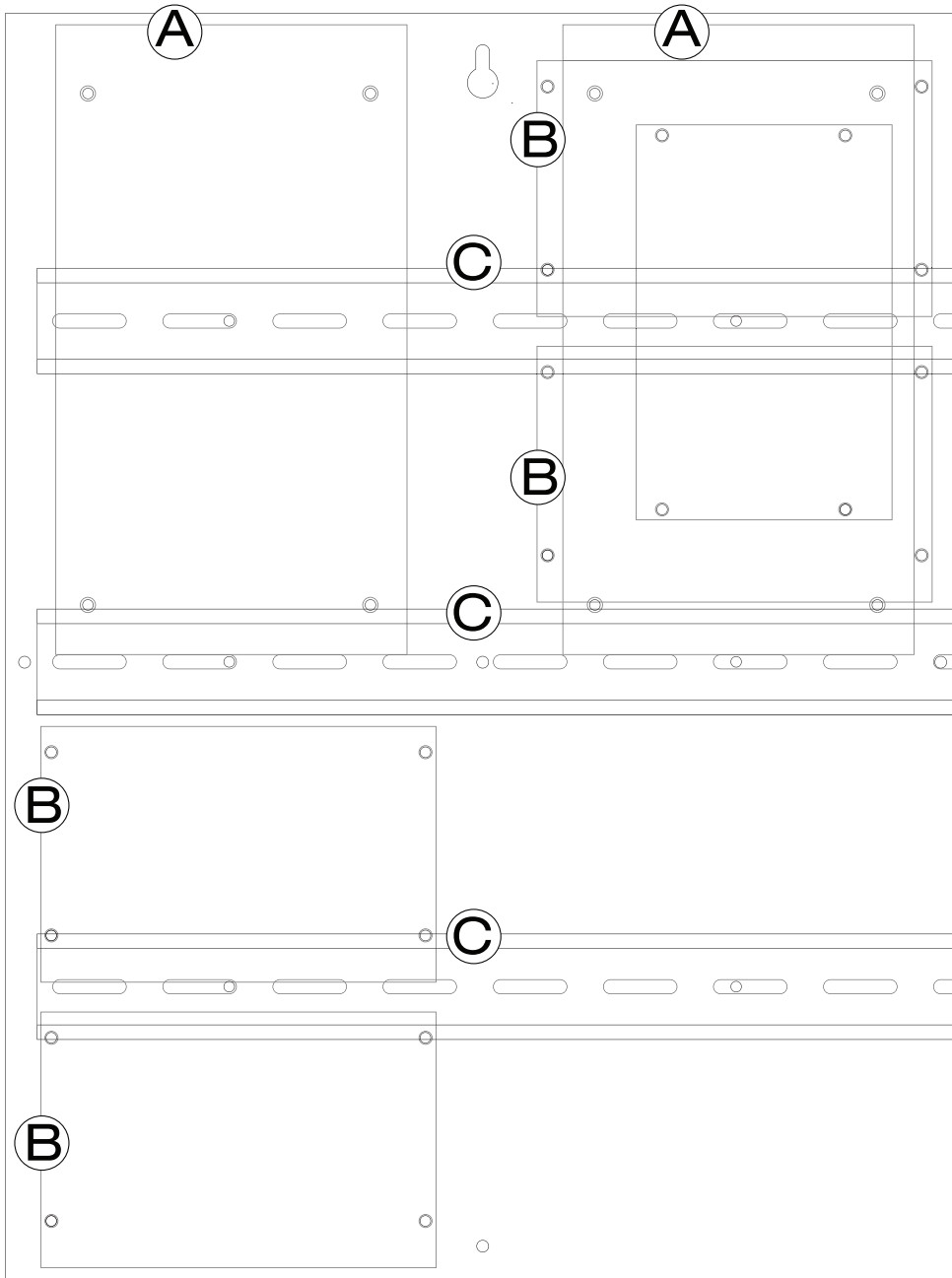
## TDR1: Configuration of Altronix Power Supply/Sub-Assembly Boards and DIN Rail

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix power supply/chargers and sub-assemblies (Fig. 2, pg. 3).  
Fasten metal spacers in the correct locations to provide proper grounding, see below (Fig. 2, pg. 3).  
Fasten spacers (provided) to pems that match the hole pattern for DIN RAIL.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 2, 2a, pg. 3).
3. Fasten TDR1 backplane to Trove1 enclosure utilizing lock nuts (provided).

### Power Supply, Sub-Assembly and Access Controller Position Chart for the Following Models:

Altronix Boards / DIN Rail	Pem Mounting
AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, ACM8/ACM8CB, ACMS8/ACMS8CB, LINQ8ACM/LINQ8ACMCB	(A)
ACM4/ACM4CB, LINQ8PD/LINQ8PDCB, PD4UL/PD4ULCB, PD8UL/PD8ULCB, MOM5, PDS8/PDS8CB or VR6	(B)
D12	(C)

Fig. 2 - Trove1DR1/TDR1 Altronix/DIN Rail Configurations



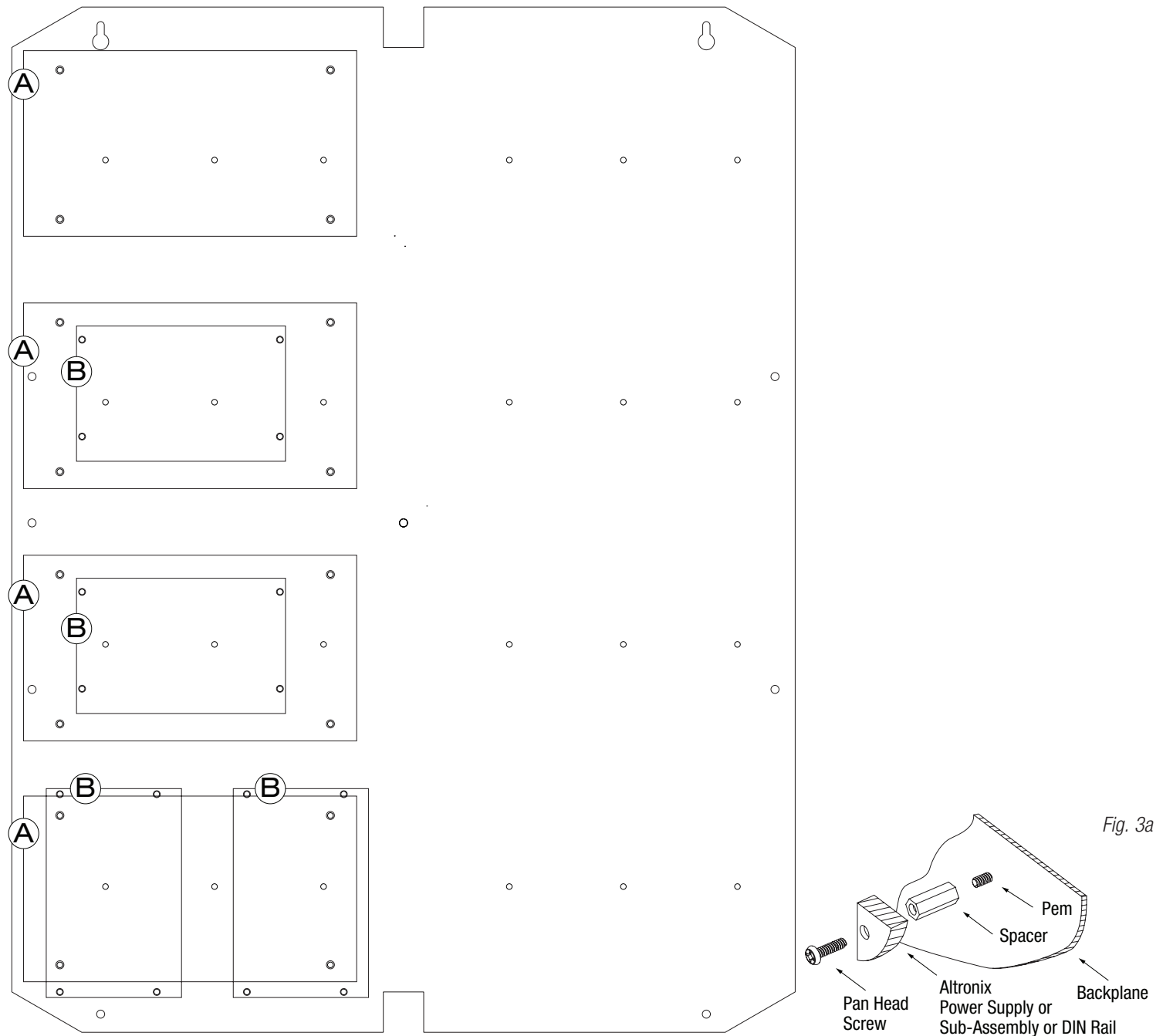
## TDR2: Configuration of Altronix Power Supply/Sub-Assembly Boards and DIN Rail

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix power supply/chargers and sub-assemblies (Fig. 3, pg. 4).  
Fasten metal spacers in the correct locations to provide proper grounding, see below (Fig. 3, pg. 4).  
Fasten spacers (provided) to pems that match the hole pattern for DIN Rail.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 3, 3a, pg. 4).
3. Fasten TDR2 backplane to Trove2 enclosure utilizing lock nuts (provided).

### Power Supply, Sub-Assembly and Access Controller Position Chart for the Following Models:

Altronix Boards / DIN Rail	Pem Mounting
AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, ACM8/ACM8CB, ACMS8/ACMS8CB, LINQ8ACM/LINQ8ACMCB	(A)
ACM4/ACM4CB, LINQ8PD/LINQ8PDCB, PD4UL/PD4ULCB, PD8UL/PD8ULCB, MOM5, PDS8/PDS8CB or VR6	(B)

Fig. 3 - Trove2DR2/TDR2 Altronix/DIN Rail Configuration



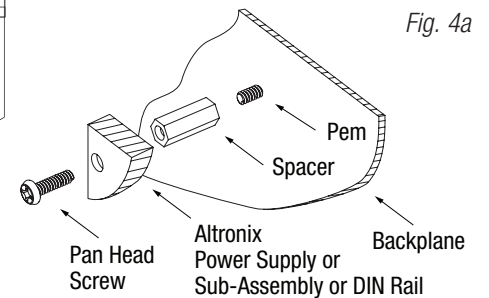
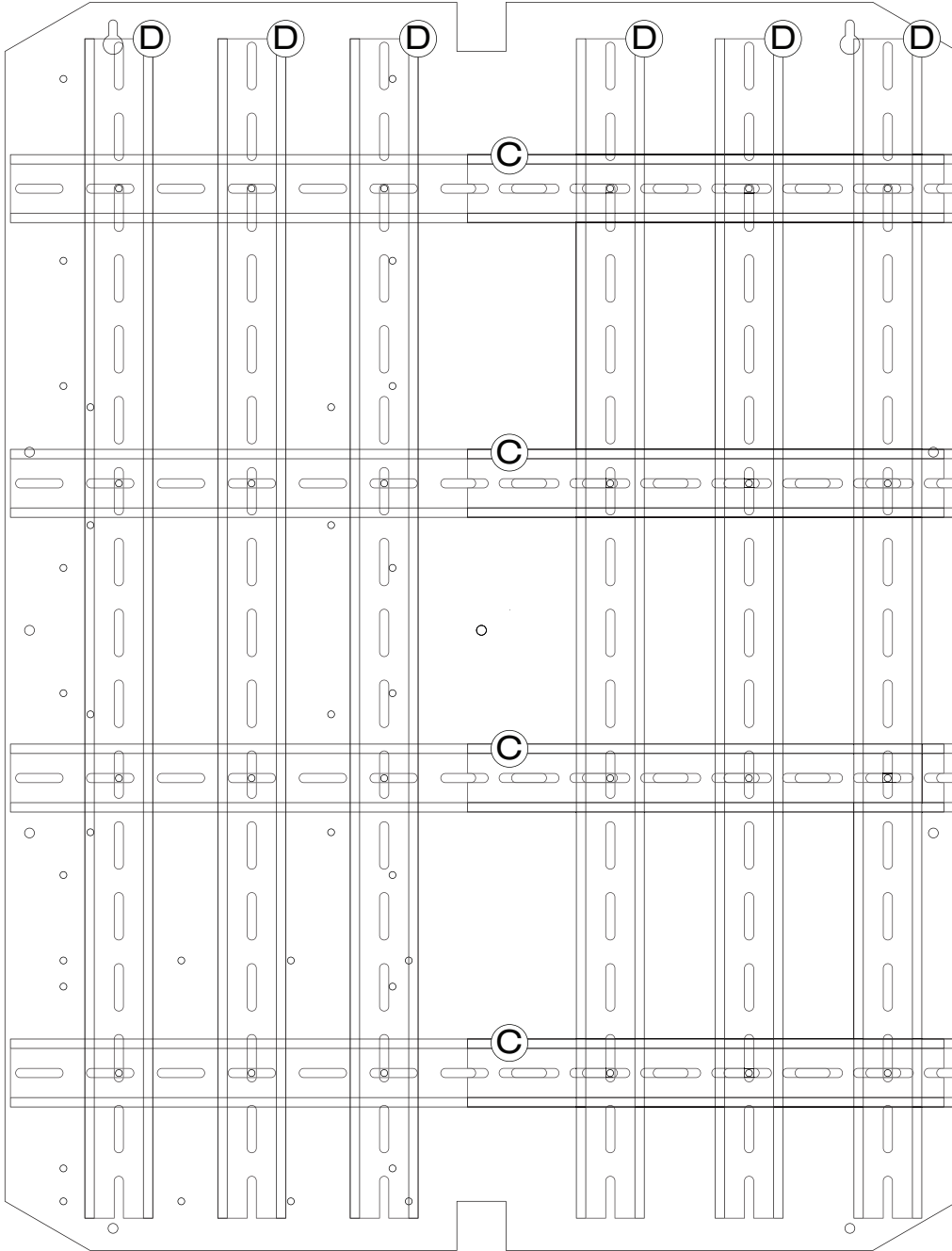
## TDR2: Configuration of DIN Rail

1. Fasten spacers (provided) to pems that match the hole pattern for DIN Rail (*Fig. 4, pg. 5*).
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (*Fig. 4, 4a, pg. 5*).
3. Fasten TDR2 backplane to Trove2 enclosure utilizing lock nuts (provided).

### Access Controller Position Chart for the Following Models:

DIN Rail	Pem Mounting
D10, D12, D19	(C)
D24	(D)

*Fig. 4 - Trove2DR2/TDR2 DIN Rail Configuration*



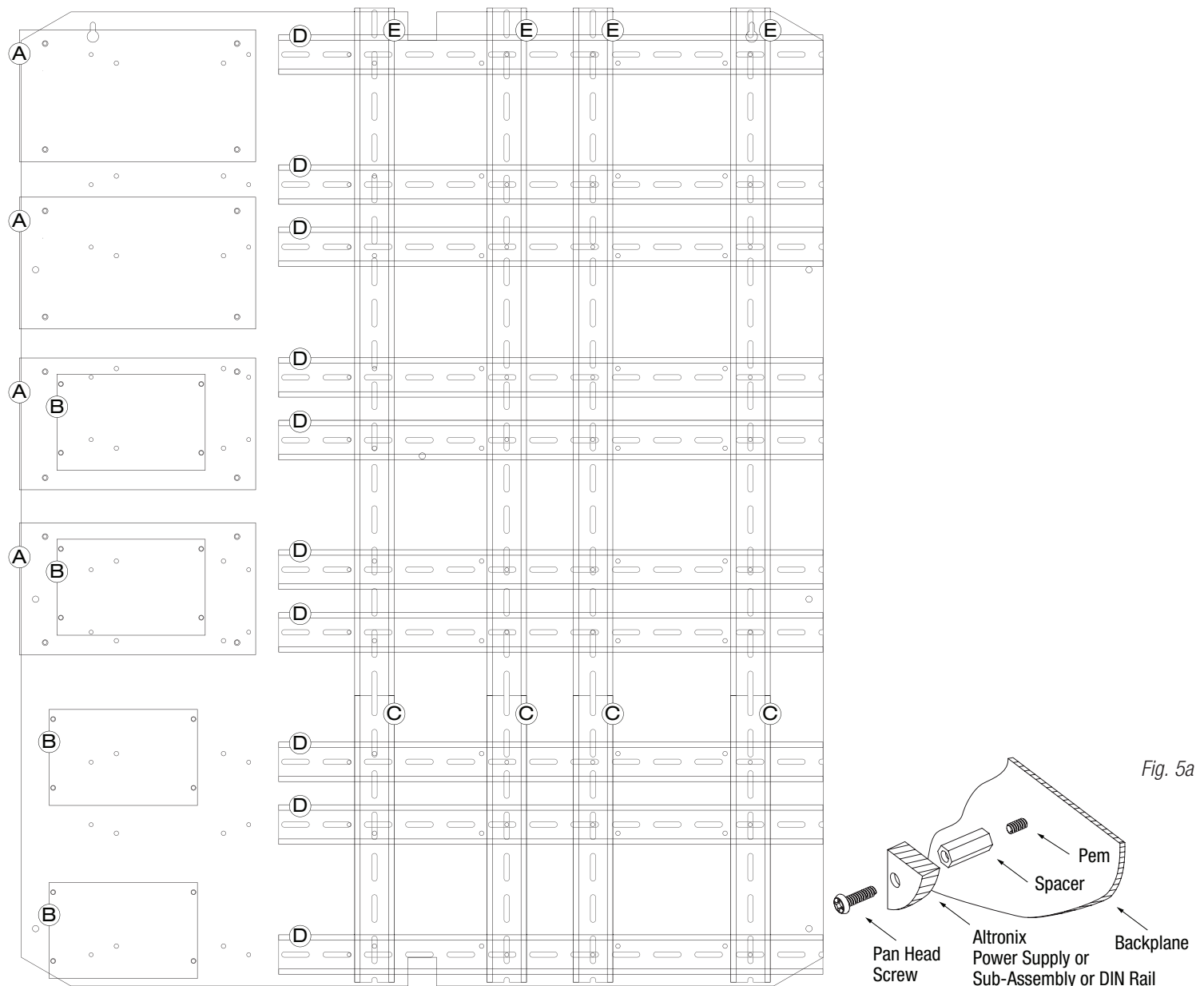
## TV3: Configuration of Altronix Power Supply/Sub-Assembly Boards and DIN Rail

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix power supply/chargers and sub-assemblies (Fig. 5, pg. 6).  
Fasten metal spacers in the correct locations to provide proper grounding, see below (Fig. 5, pg. 6).  
Fasten spacers (provided) to pems that match the hole pattern for DIN Rail.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 5, 5a, pg. 6).
3. Fasten TV3 backplane to Trove3 enclosure utilizing lock nuts (provided).

### Power Supply, Sub-Assembly and Access Controller Position Chart for the Following Models:

Altronix Boards / DIN Rail	Pem Mounting
AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, ACM8/ACM8CB, ACMS8/ACMS8CB, LINQ8ACM/LINQ8ACMCB	(A)
ACM4/ACM4CB, LINQ8PD/LINQ8PDCB, PD4UL/PD4ULCB, PD8UL/PD8ULCB, MOM5, PDS8/PDS8CB or VR6	(B)
D10	(C)
D19 (four (4) included)	(D)
D24	(E)

Fig. 5 - Trove3DR3/TV3 Altronix/DIN Rail Configuration



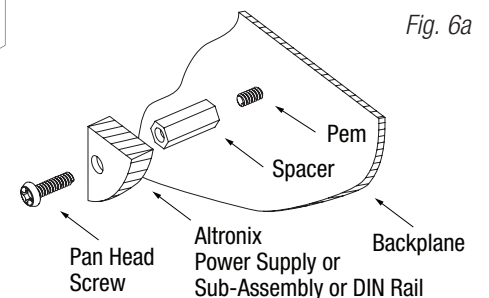
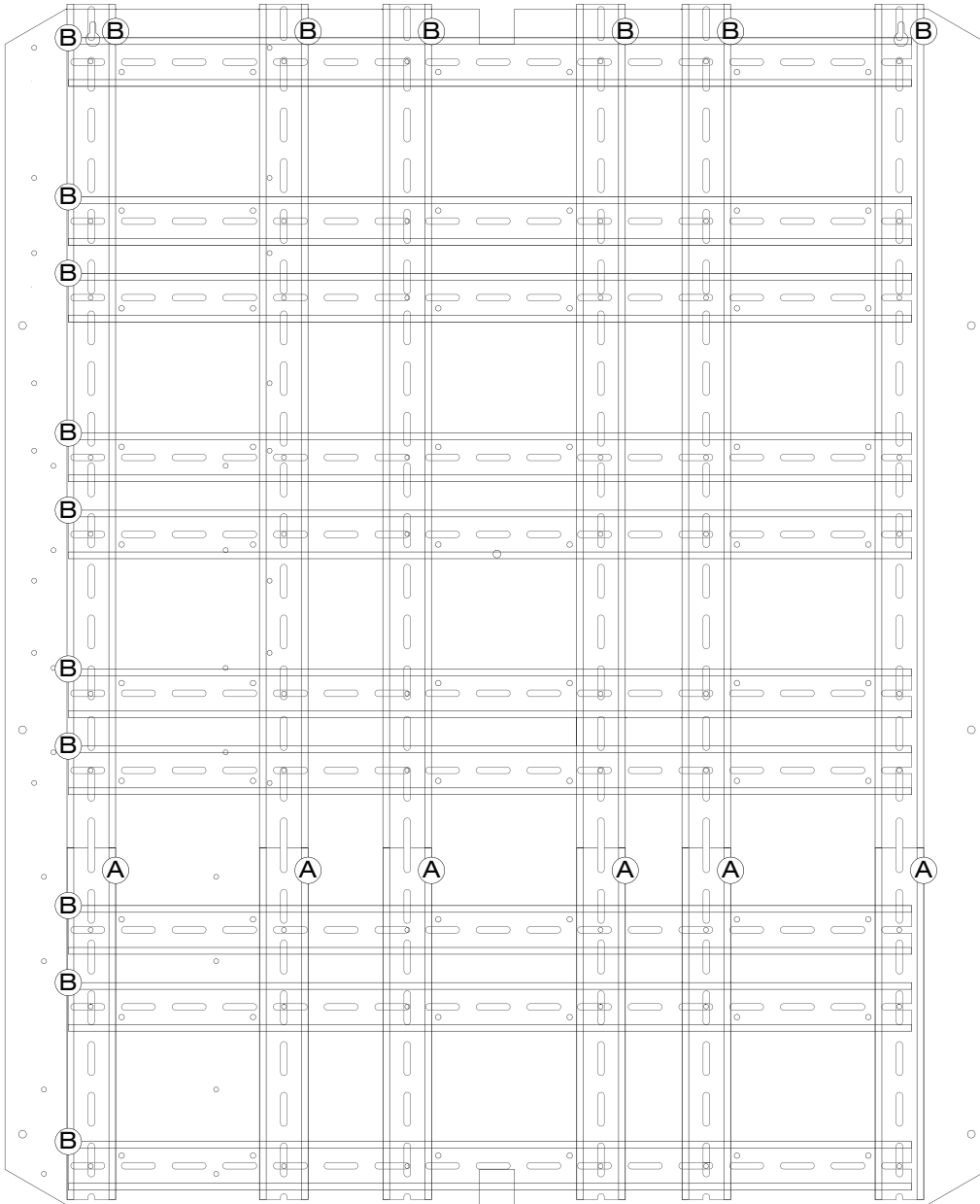
### TV3: Configuration of DIN Rail Only

1. Fasten spacers (provided) to pems that match the hole pattern for DIN Rail (Fig. 6, pg. 7).
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 6, 6a, pg. 7).
3. Fasten TV3 backplane to Trove3 enclosure utilizing lock nuts (provided).

### Access Controller Position Chart for the Following Models:

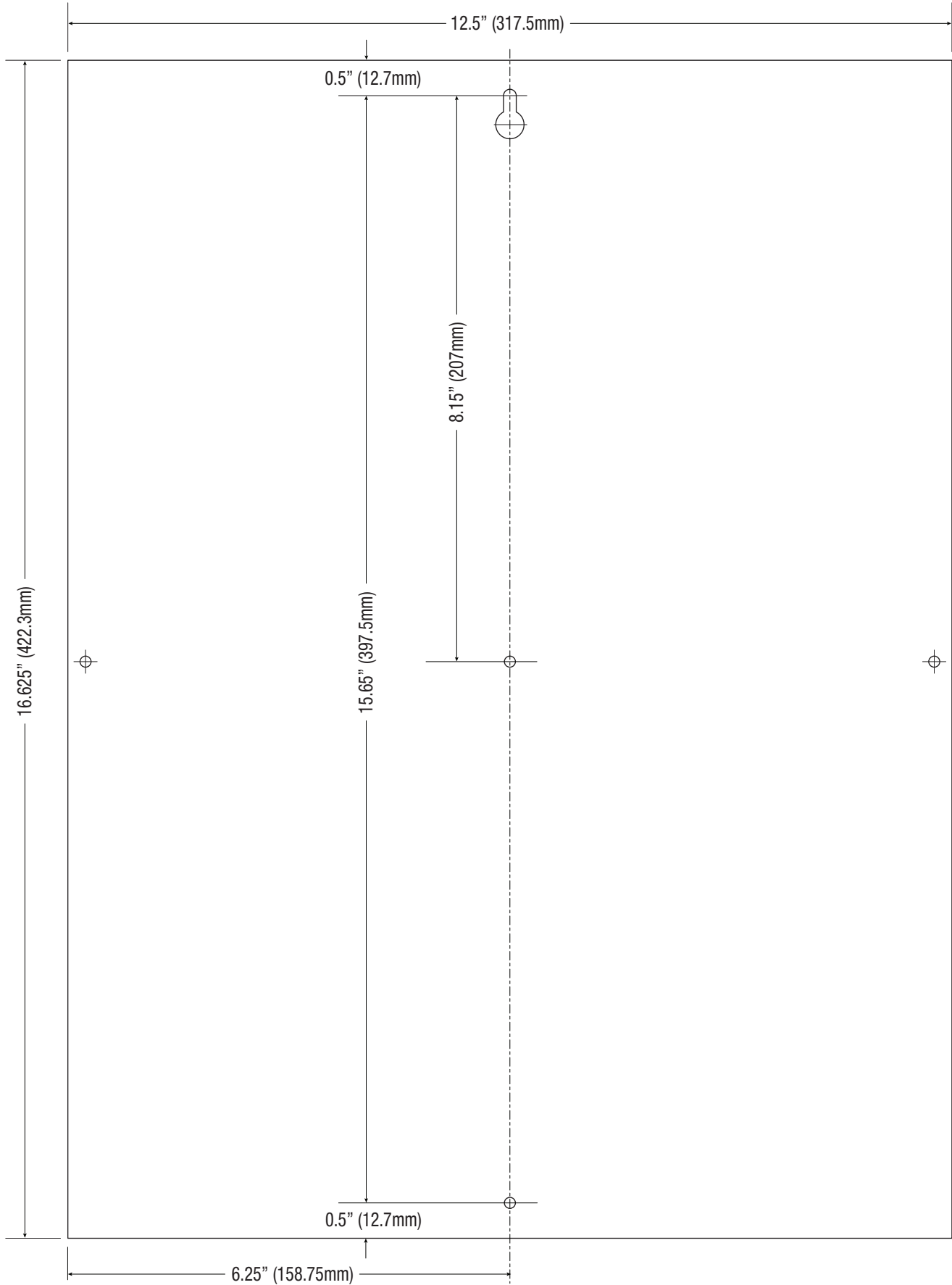
DIN Rail	Pem Mounting
D10	(A)
D24	(B)

Fig. 6- Trove3DR3/TV3 DIN Rail Configuration



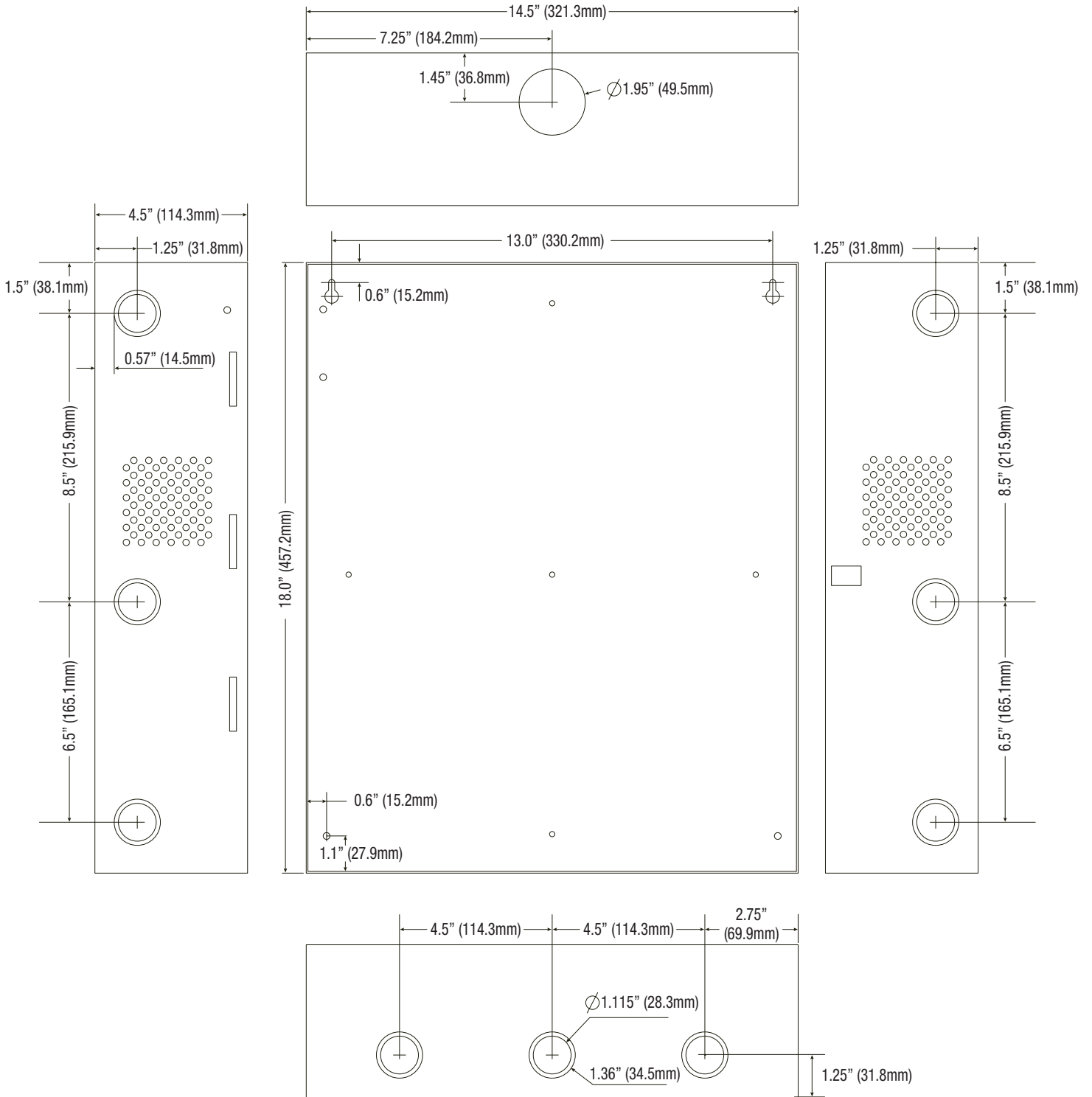
### TDR1 Dimensions:

16.625" x 12.5" x 0.3125" (422.3mm x 317.5mm x 7.9mm)



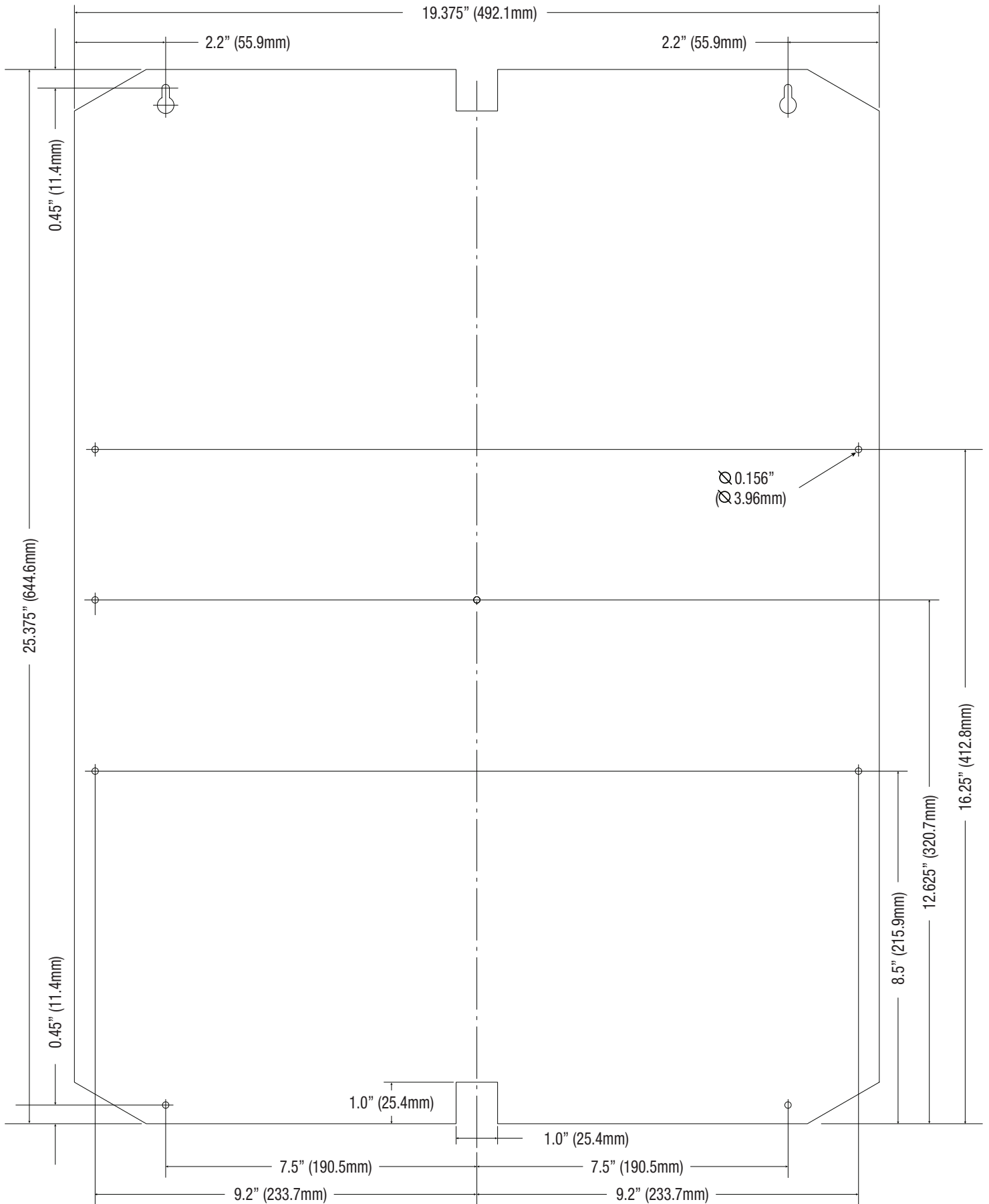
# Trove1DR1 Enclosure Dimensions (H x W x D):

18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

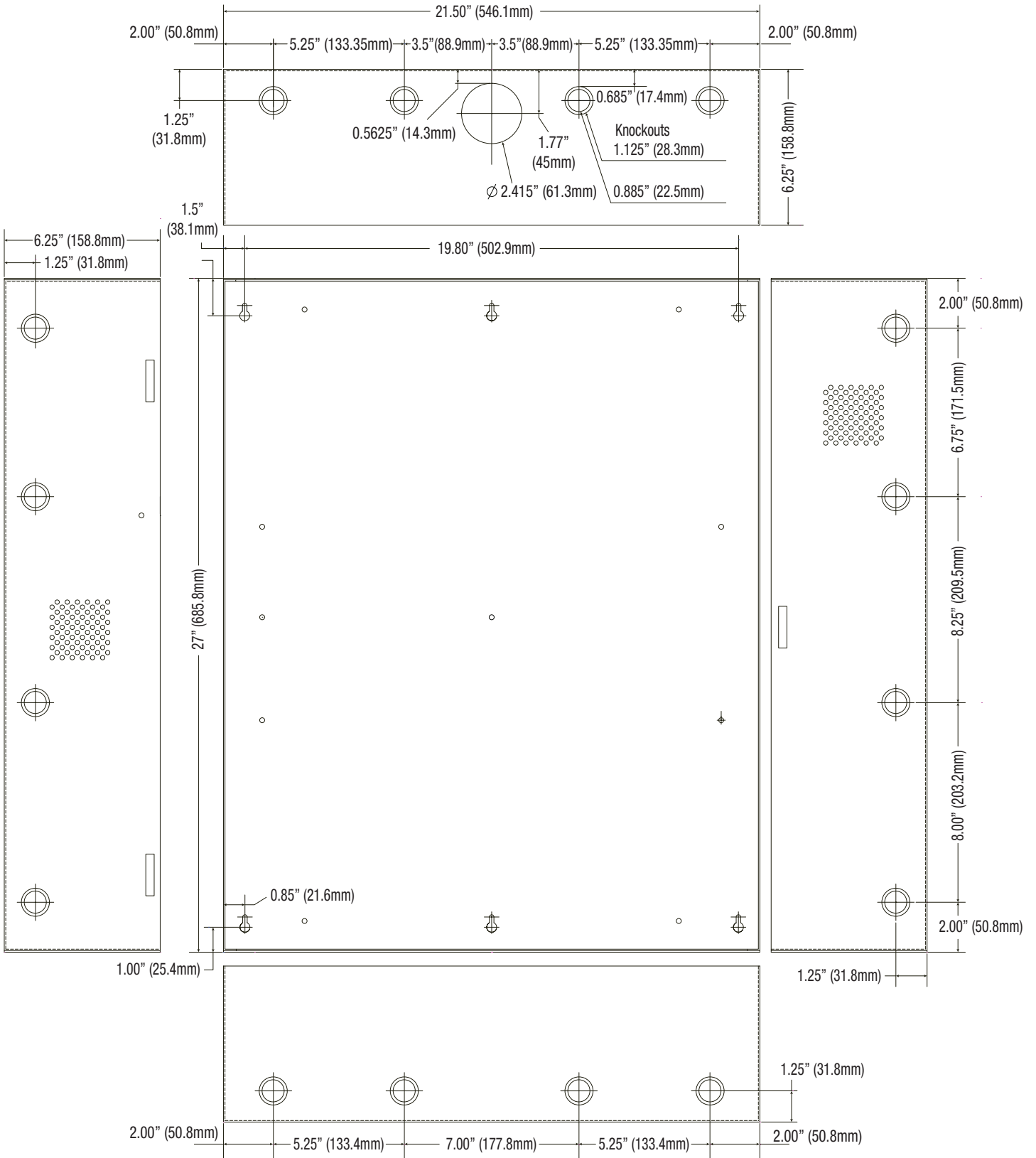


### TDR2 Dimensions:

25.375" x 19.375" x 0.3125" (644.5mm x 482.6mm x 7.9mm)

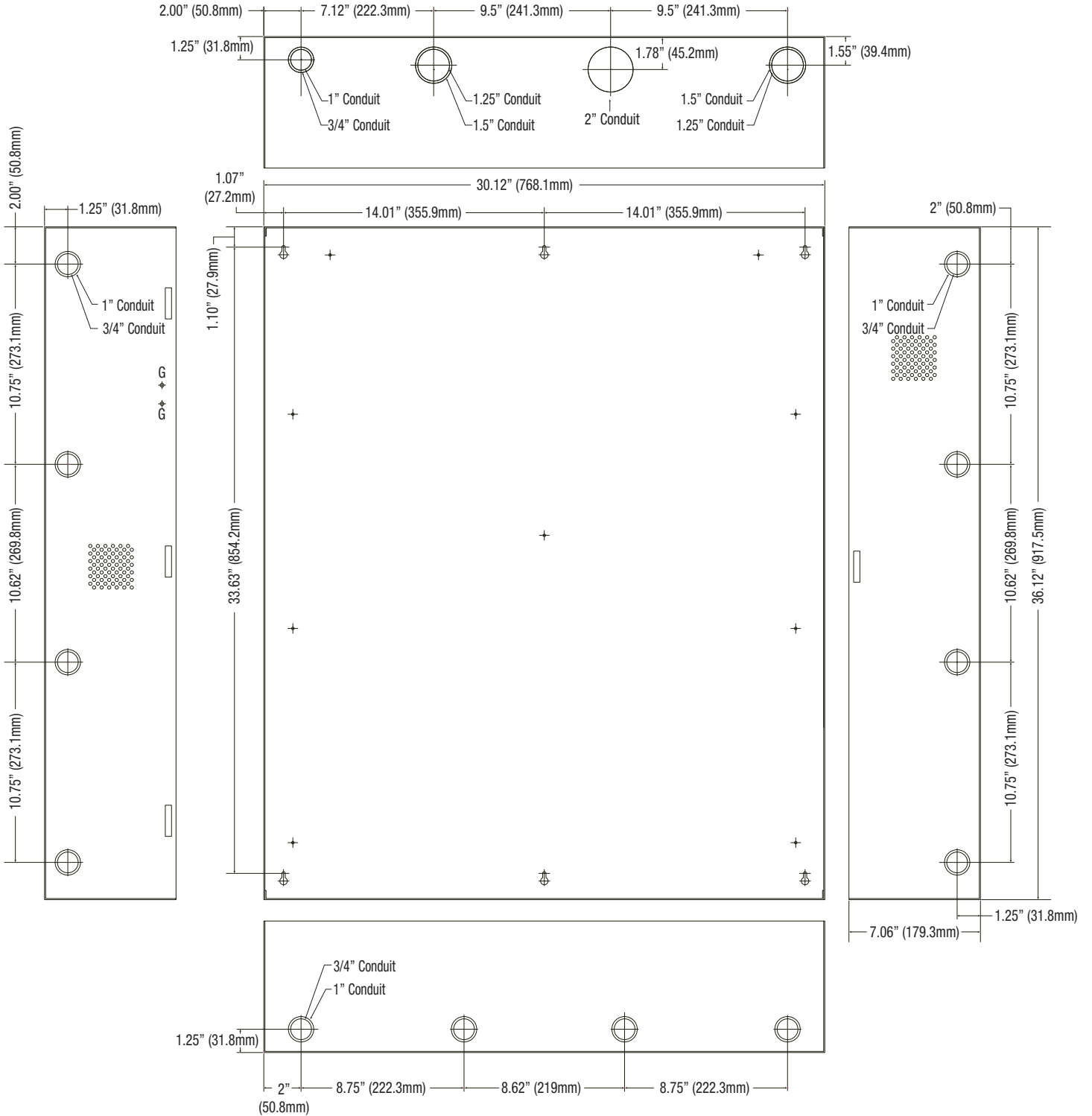


## Trove2DR2 Enclosure Dimensions (H x W x D): 27.25" x 21.75" x 6.5" (692.15mm x 552.5mm x 165.1mm)



# Trove3DR3 Enclosure Dimensions (H x W x D approximate):

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm)



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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TroveDR Installation Guide