

PART NUMBER	QTY. (1 FIXTURE)	QTY. (4 FIXTURES)
18/2-AWG	440	1760
CCBS-0001	2	8
CCBS-0002	2	8
CCBS-0003	2	8
CCBS-0004	2	8
CCBS-0005	2	8
CCBS-0006	3	12
CCBS-0007	4	16
CCBS-0008	22	176
CCBS-0009	44	176
CCBS-0010	22	88
CCBS-0011	22	88
CCBS-0012	88	352
CCBS-0013	2	8
CCBS-0014	2	8
CCBS-0015	4	16
CCBS-0016	22	88
CCBS-0017	22	88
CCBS-0018	44	176
CCBS-0019	32	128
CCBS-0020	86	344
CCBS-0021	94	376
CCBS-0022	12	48
CCBS-0023	18	72
CCBS-0024	48	192
CCBS-0025	2	8
CCBS-0026	8	32
CCBS-0027	58	232
FAT24-3.4-35-20	234.67	938.67
IPS-1_4-7.625	1	4
IPS-1_4-15.625	1	4
IPS-1_4-23.625	1	4
IPS-1_4-31.625	1	4
IPS-1_4-33.75	1	4
IPS-1_4-39.625	1	4
IPS-1_4-41.75	1	4
IPS-1_4-47.625	1	4
IPS-1_4-49.75	1	4
IPS-1_4-55.625	1	4
IPS-1_4-57.75	1	4
IPS-1_4-63.625	1	4
IPS-1_4-65.75	1	4
IPS-1_4-71.625	1	4
IPS-1_4-73.75	1	4
IPS-1_4-79.625	1	4
IPS-1_4-81.75	1	4
IPS-1_4-87.625	1	4
IPS-1_4-89.75	1	4
IPS-1_4-97.75	1	4
IPS-1_4-105.75	1	4
IPS-1_4-113.75	1	4
XLAV80	12	48



**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED

APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

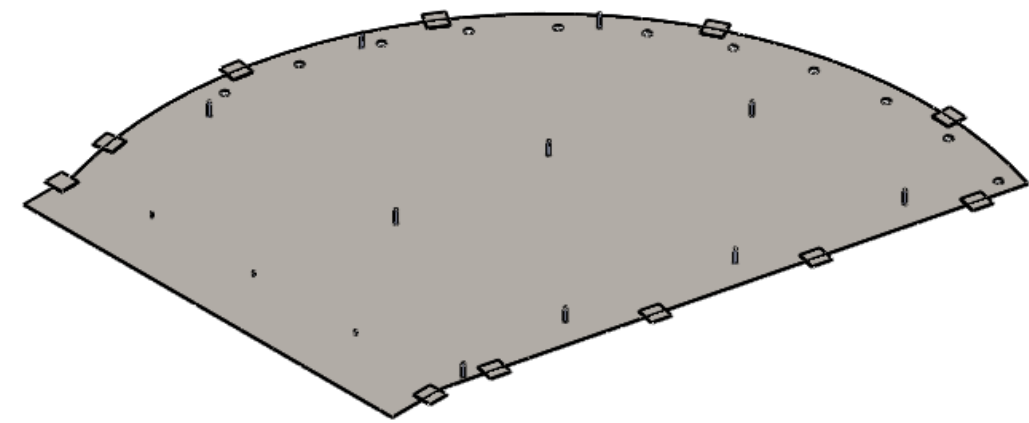
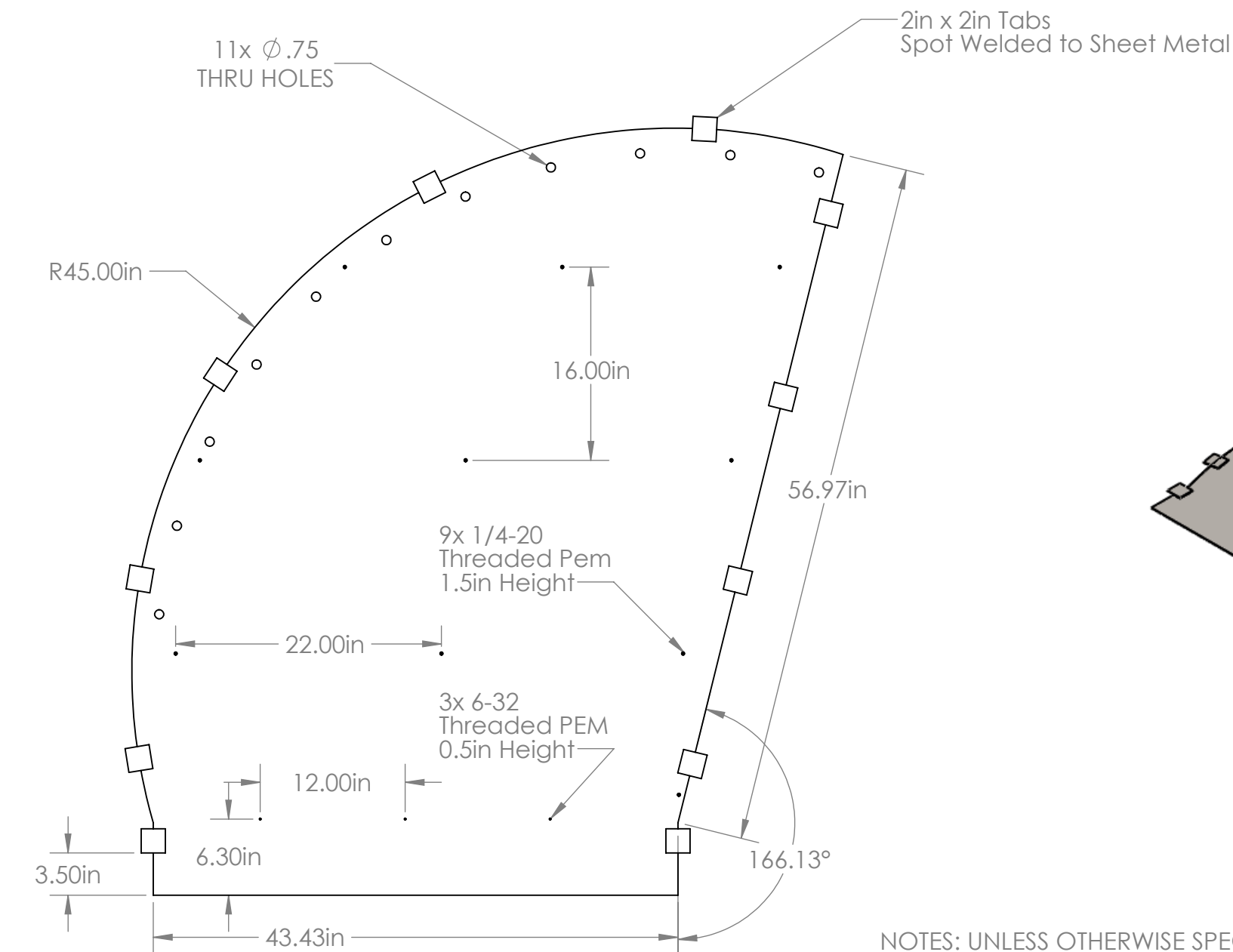
**NOTES:**

85 Broad Street  
Part Quantities

EnergyLighting, Inc.  
1110 Sligh Blvd  
Orlando, FL  
32806



Date: 1/13/2016  
By: TH  
Units: Inches  
Rev. 1  
Sheet: 1 of 1  
Scale: 1:48



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: STEEL
3. PROTECTIVE FINISH: POWDERCOAT WHITE RAL 9010 49/11500 - 38/10004
4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
5. DIMENSIONS ARE IN INCHES

TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm .03$   
 TWO PLACE DECIMAL  $\pm .01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE
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**NOTES:**

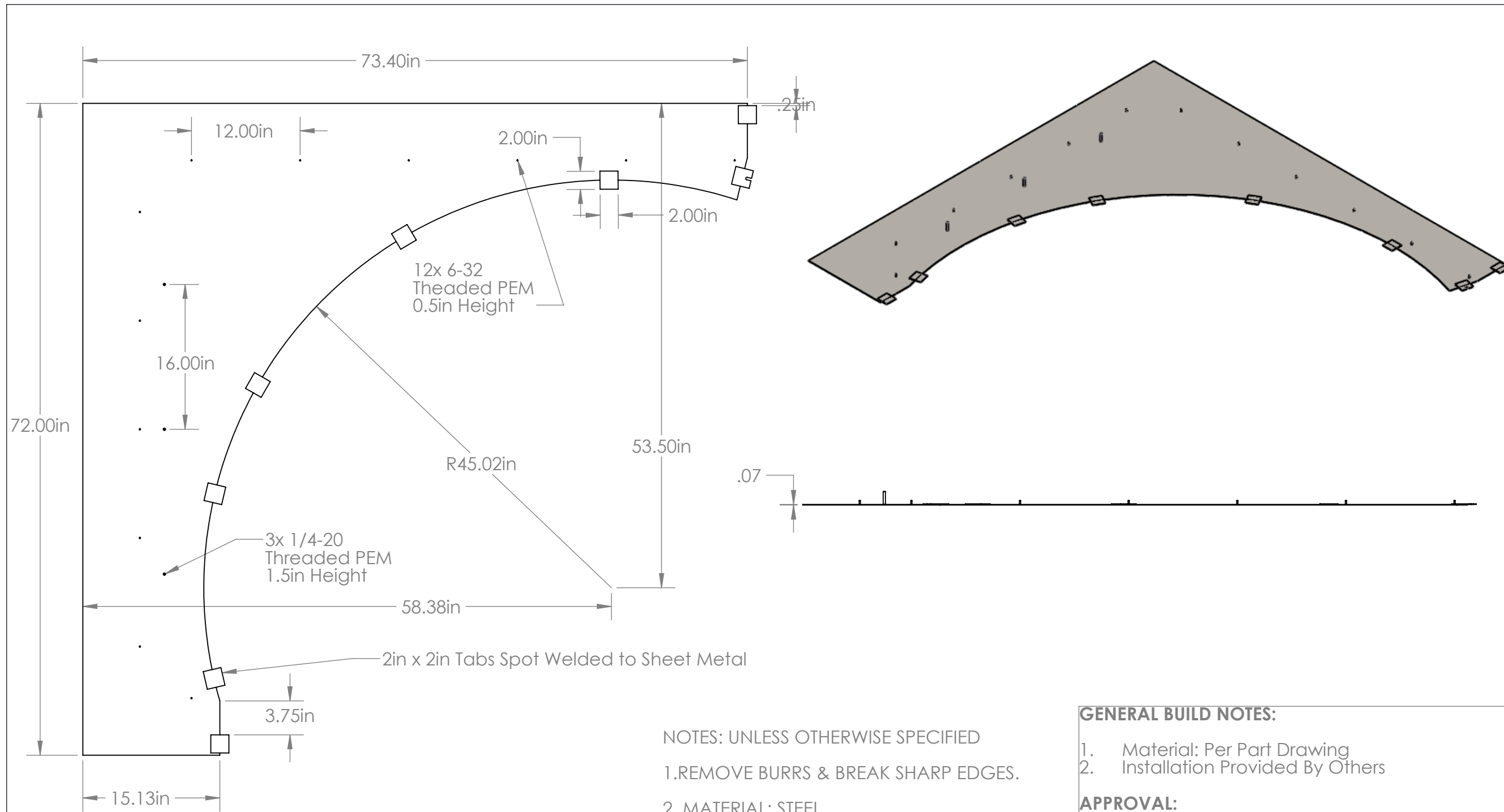
CCBS-0001

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:16

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NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: STEEL
3. PROTECTIVE FINISH: POWDERCOAT WHITE RAL 9010 49/11500 - 38/10004
4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
5. DIMENSIONS ARE IN INCHES

TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: ± 1/4°  
 ONE PLACE DECIMAL +/- .03  
 TWO PLACE DECIMAL +/- .01

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED

APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

**NOTES:**

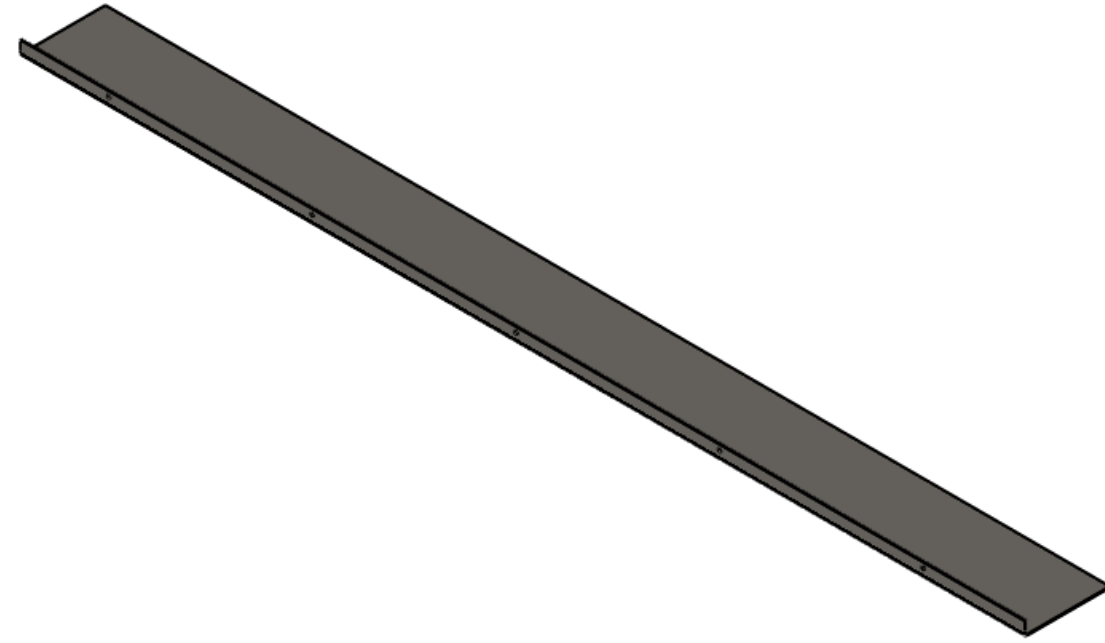
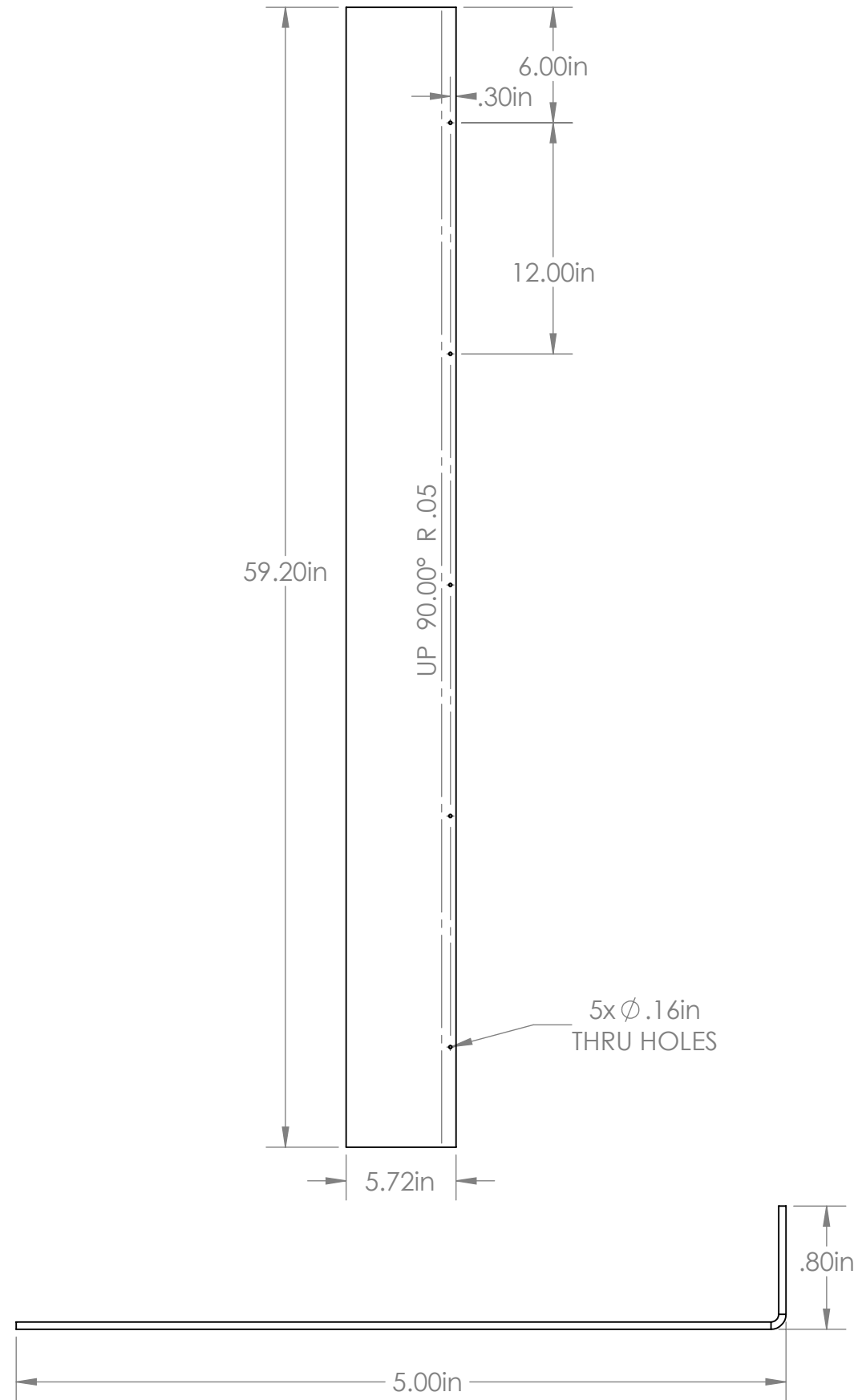
CCBS-0002

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:16

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NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
  2. MATERIAL: STEEL
  3. PROTECTIVE FINISH: POWDERCOAT WHITE RAL 9010 49/11500 - 38/10004
  4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
  5. DIMENSIONS ARE IN INCHES
- TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: ± 1/4°  
 ONE PLACE DECIMAL +/- .03  
 TWO PLACE DECIMAL +/- .01

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

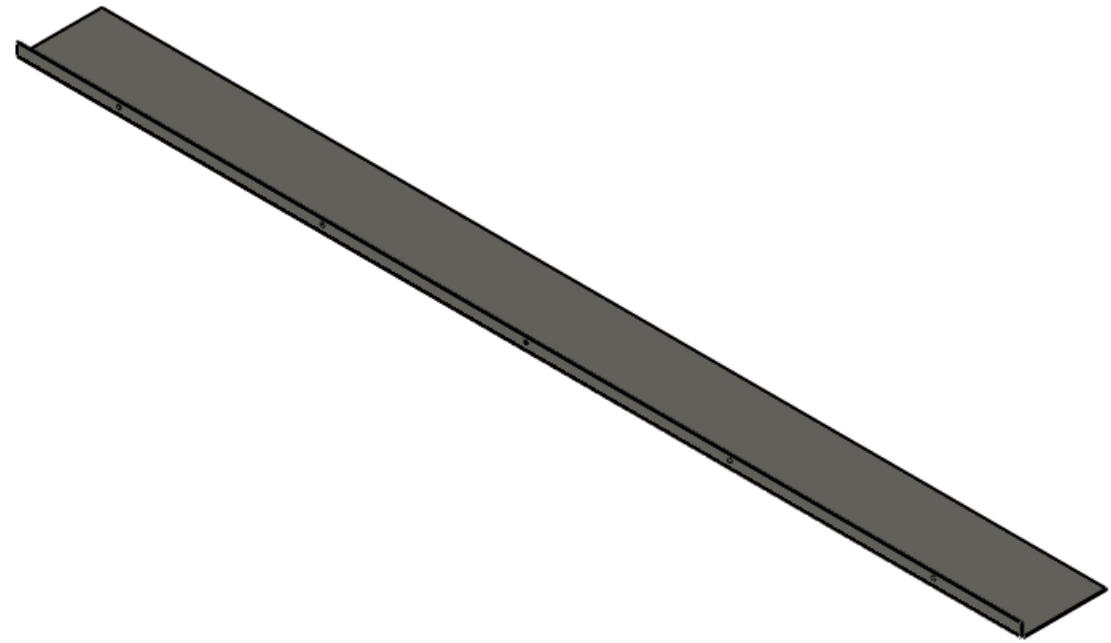
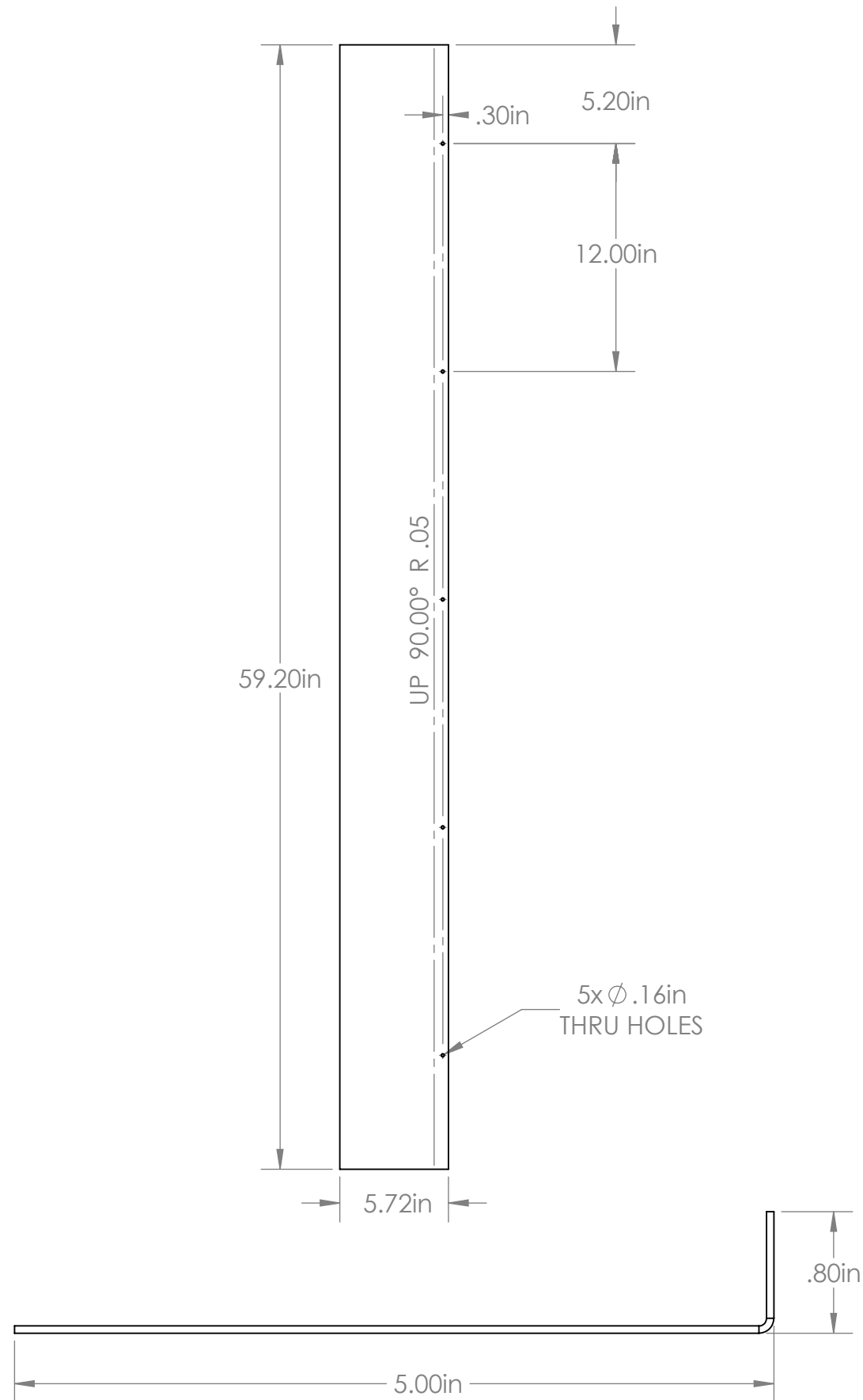
**NOTES:**

CCBS-0003

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:8



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: STEEL
3. PROTECTIVE FINISH: POWDERCOAT WHITE RAL 9010 49/11500 - 38/10004
4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
5. DIMENSIONS ARE IN INCHES

TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm .03$   
 TWO PLACE DECIMAL  $\pm .01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

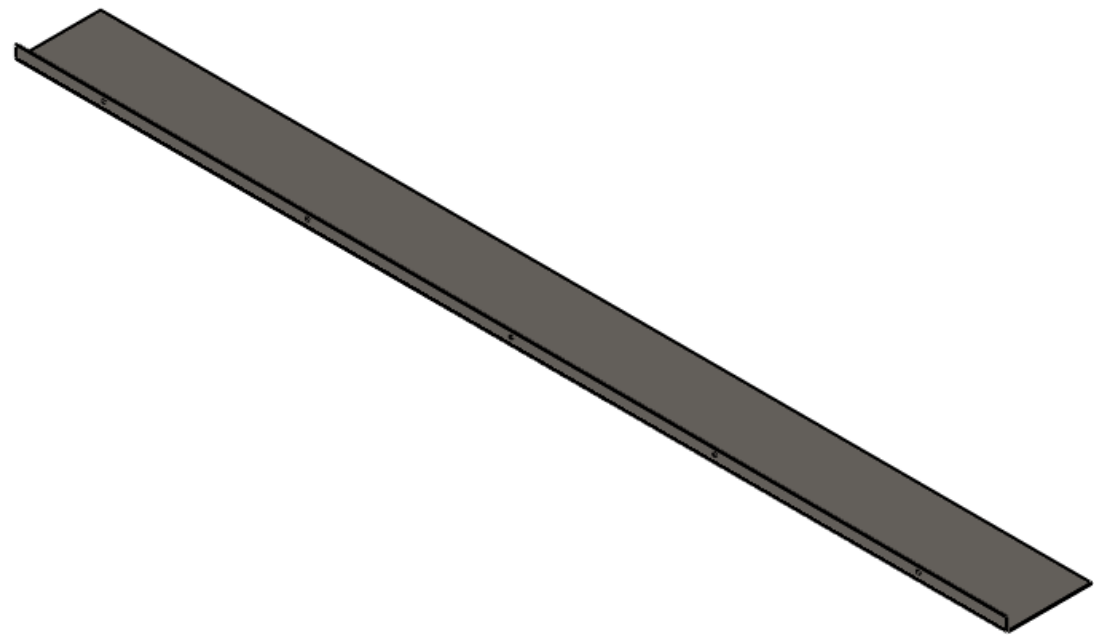
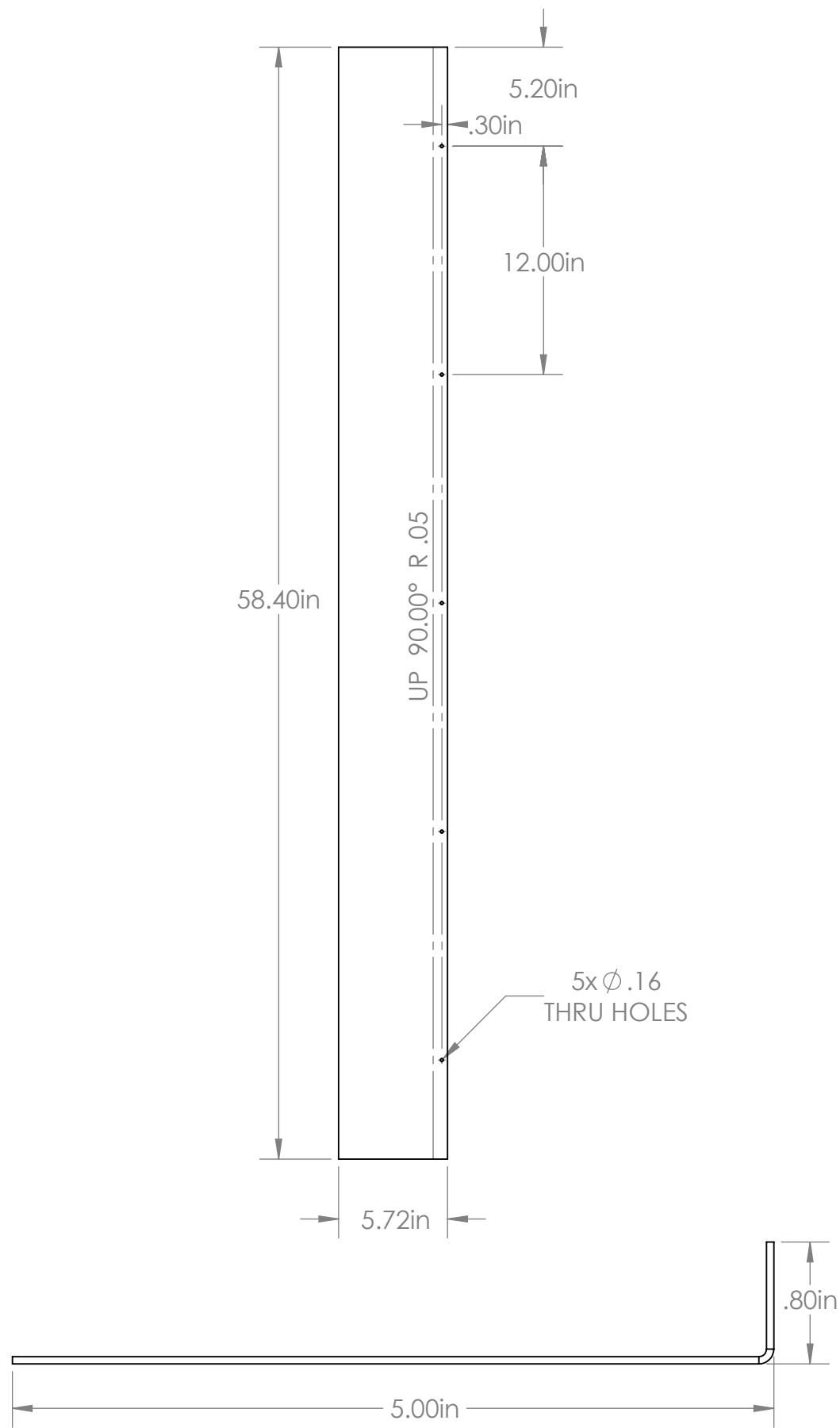
**NOTES:**

CCBS-0004

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:8



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: STEEL
3. PROTECTIVE FINISH: POWDERCOAT WHITE RAL 9010 49/11500 - 38/10004
4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
5. DIMENSIONS ARE IN INCHES

TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: ± 1/4°  
 ONE PLACE DECIMAL +/- .03  
 TWO PLACE DECIMAL +/- .01

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

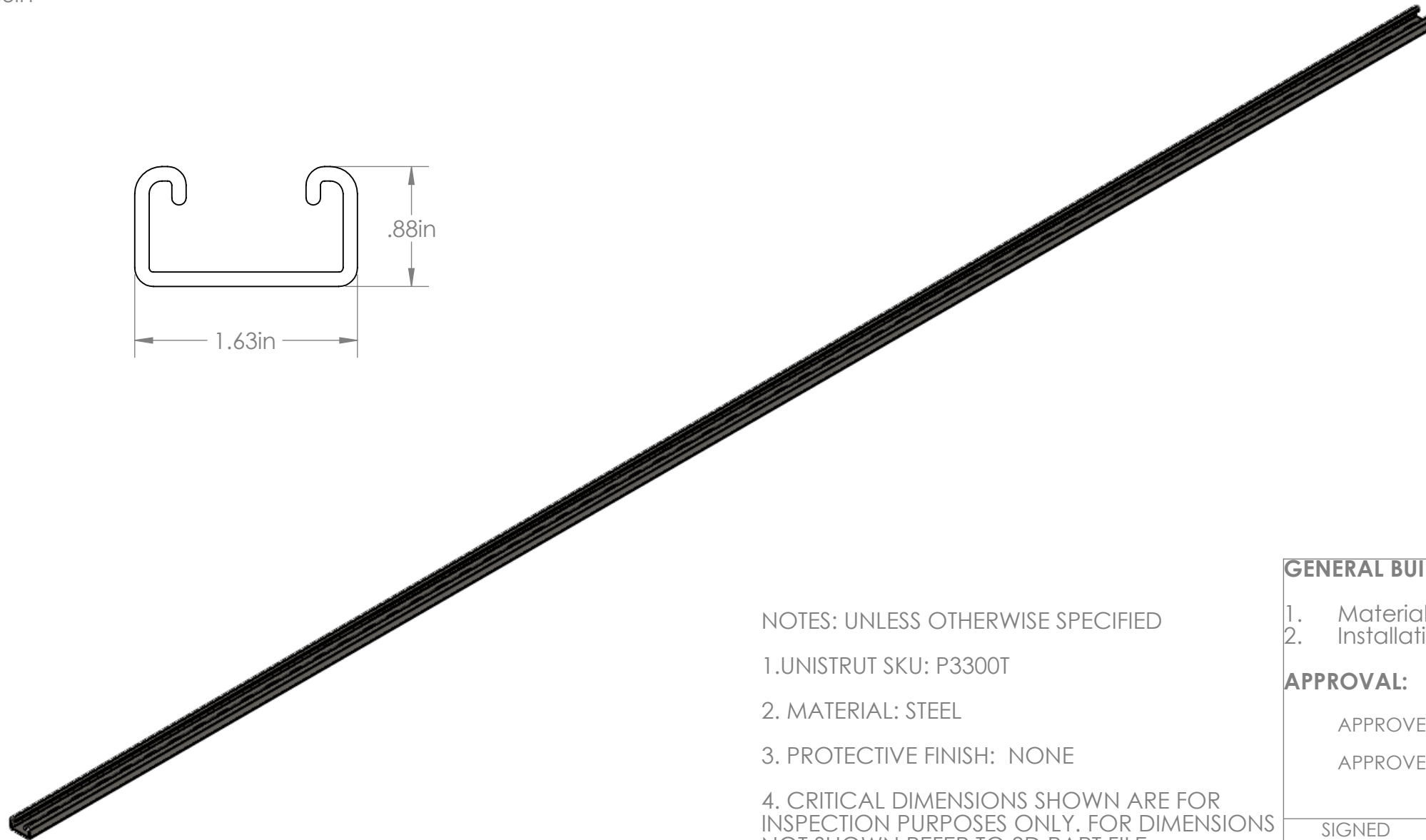
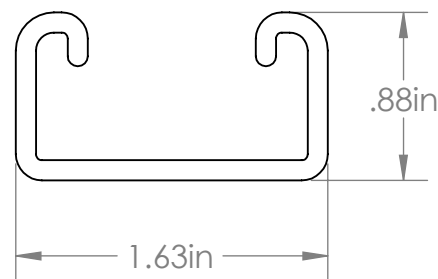
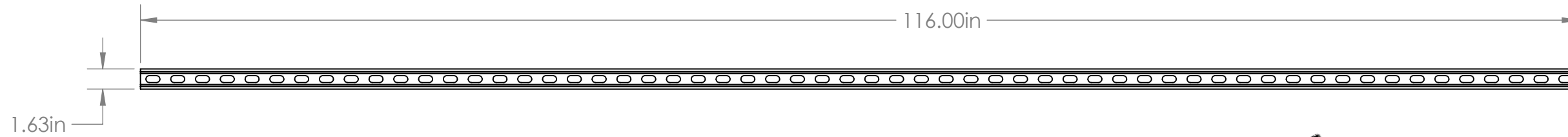
**NOTES:**

CCBS-0005

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:8



NOTES: UNLESS OTHERWISE SPECIFIED

1. UNISTRUT SKU: P3300T
  2. MATERIAL: STEEL
  3. PROTECTIVE FINISH: NONE
  4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
  5. DIMENSIONS ARE IN INCHES
- TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm .03$   
 TWO PLACE DECIMAL  $\pm .01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

**NOTES:**

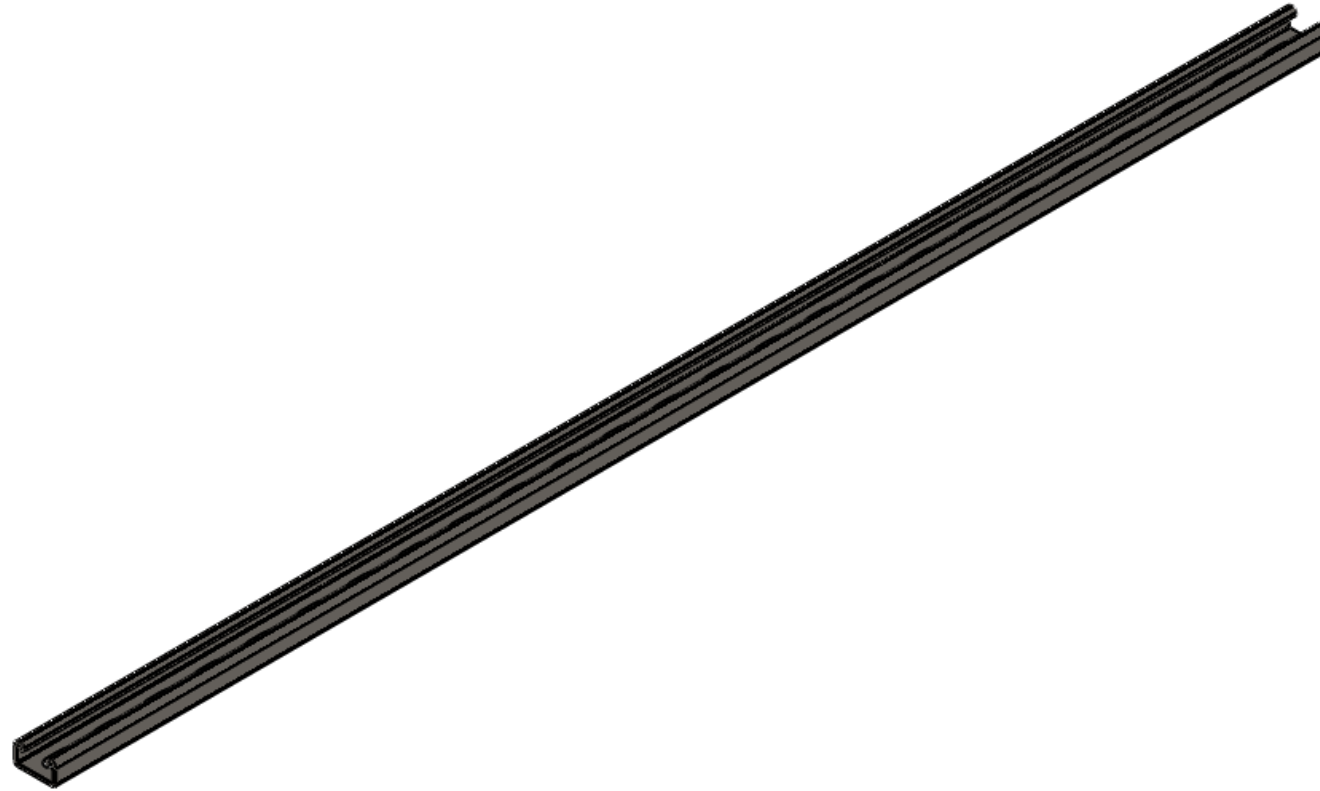
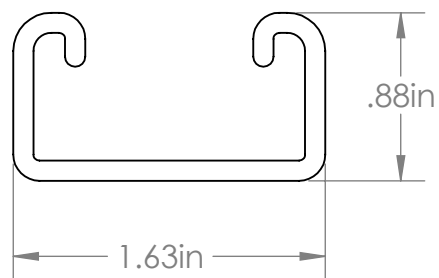
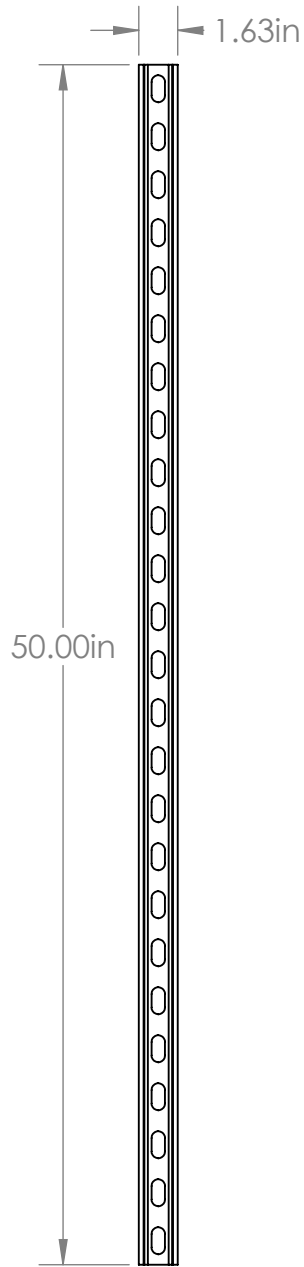
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CCBS-0006

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/22/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:24



NOTES: UNLESS OTHERWISE SPECIFIED

1. UNISTRUT SKU: P3300T
  2. MATERIAL: STEEL
  3. PROTECTIVE FINISH: NONE
  4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
  5. DIMENSIONS ARE IN INCHES
- TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm 0.03$   
 TWO PLACE DECIMAL  $\pm 0.01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE
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**NOTES:**

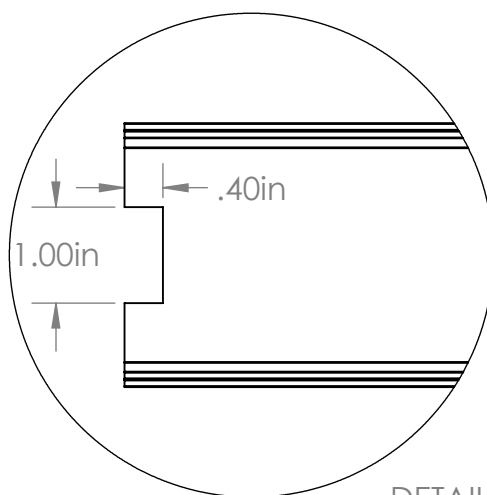
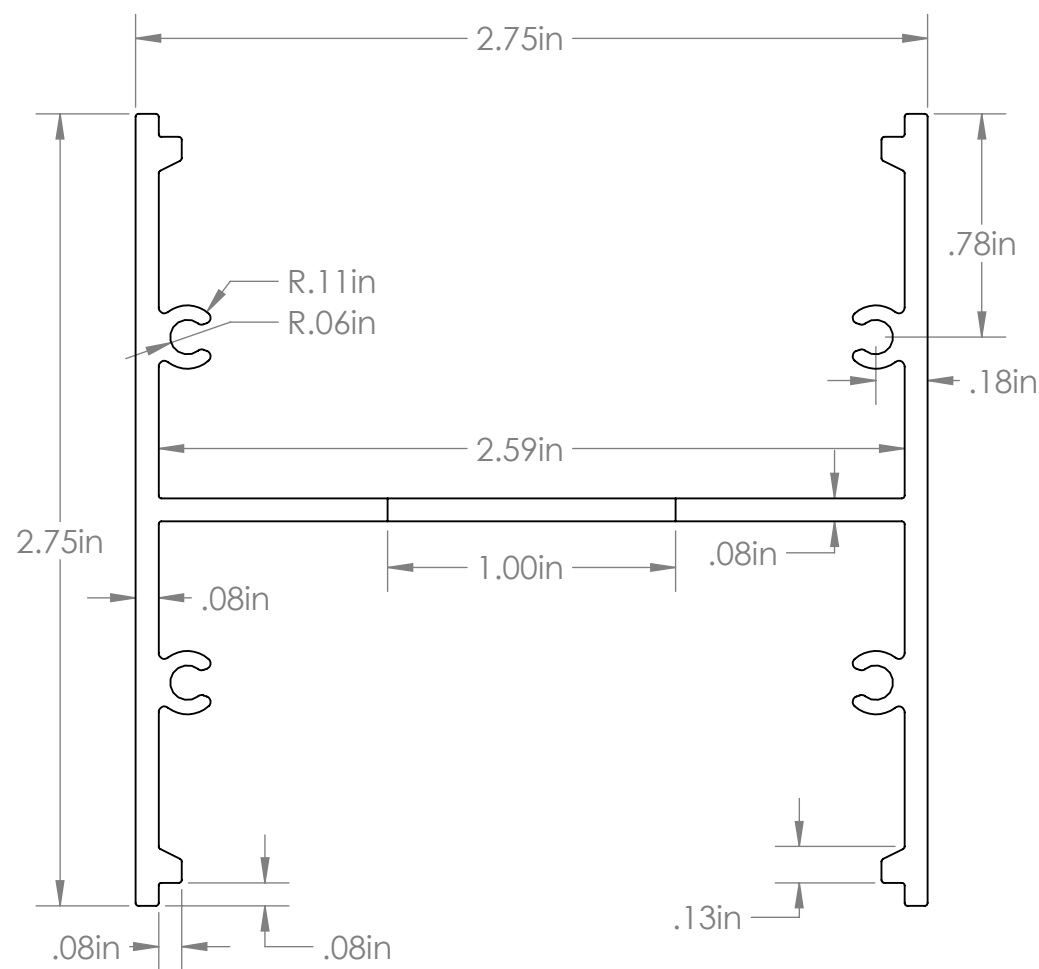
CCBS-0007

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806

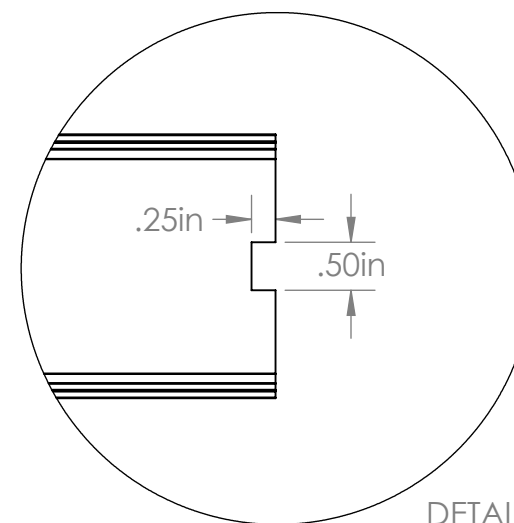


Date: 12/22/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:12





DETAIL B  
SCALE 1 : 2



DETAIL A  
SCALE 1 : 2



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: ALUMINUM

3. PROTECTIVE FINISH: POWDERCOAT GRAY  
RAL 9018 49/72490 - 38/10018

4. CRITICAL DIMENSIONS SHOWN ARE FOR  
INSPECTION PURPOSES ONLY. FOR DIMENSIONS  
NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED

APPROVED AS NOTED

SIGNED

PRINT NAME

DATE

**NOTES:**

CCBS-0008

OenergyLighting, Inc.  
1110 Sligh Blvd  
Orlando, FL  
32806



Date: 12/29/2015

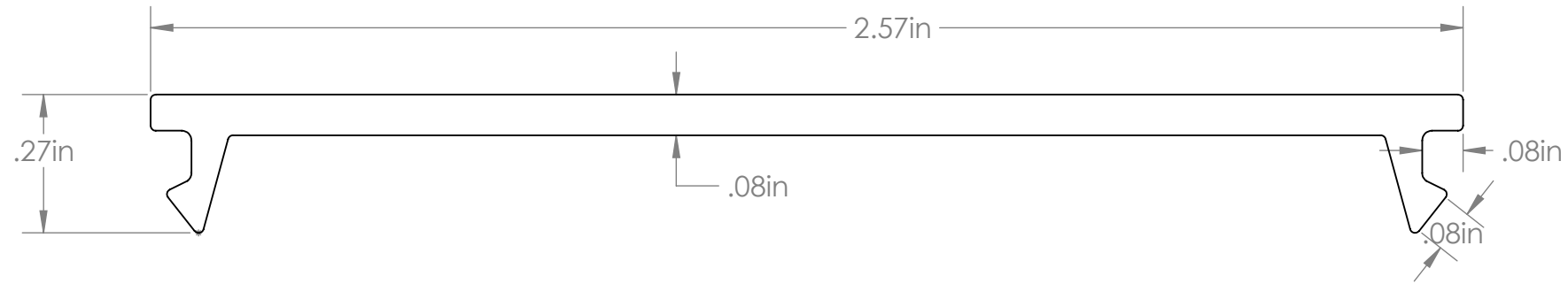
By: TH

Units: Inches

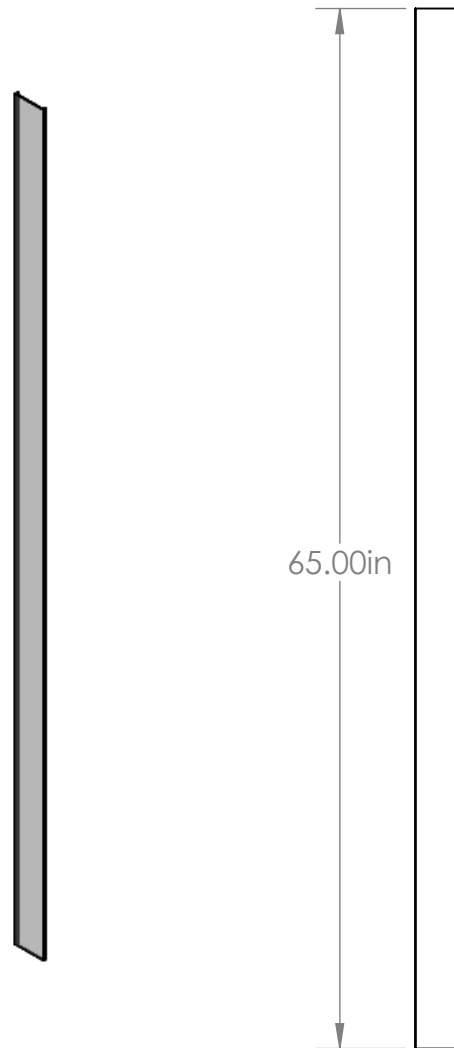
Rev. 1

Sheet: 1 of 1

Scale: 1:12



Lens diffusion to match Makrolon LC3



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: ACRYLIC (70% CA 927 30% Opix LD)
3. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
4. DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR:  $\pm 1/4^\circ$   
ONE PLACE DECIMAL  $\pm 0.03$   
TWO PLACE DECIMAL  $\pm 0.01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
APPROVED AS NOTED

SIGNED	PRINT NAME	DATE
--------	------------	------

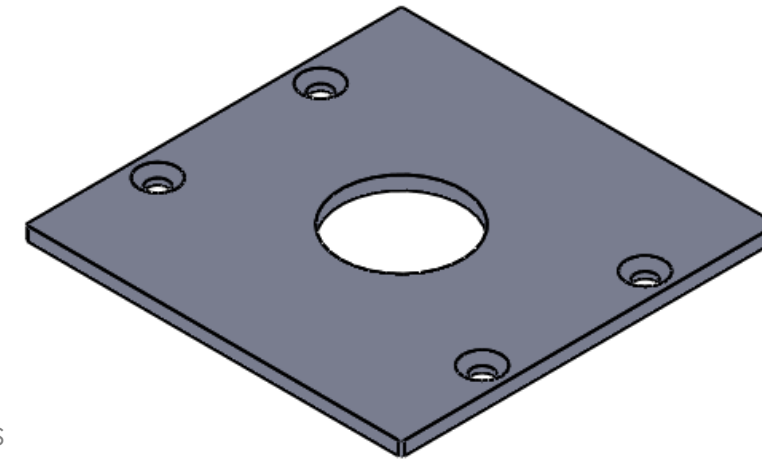
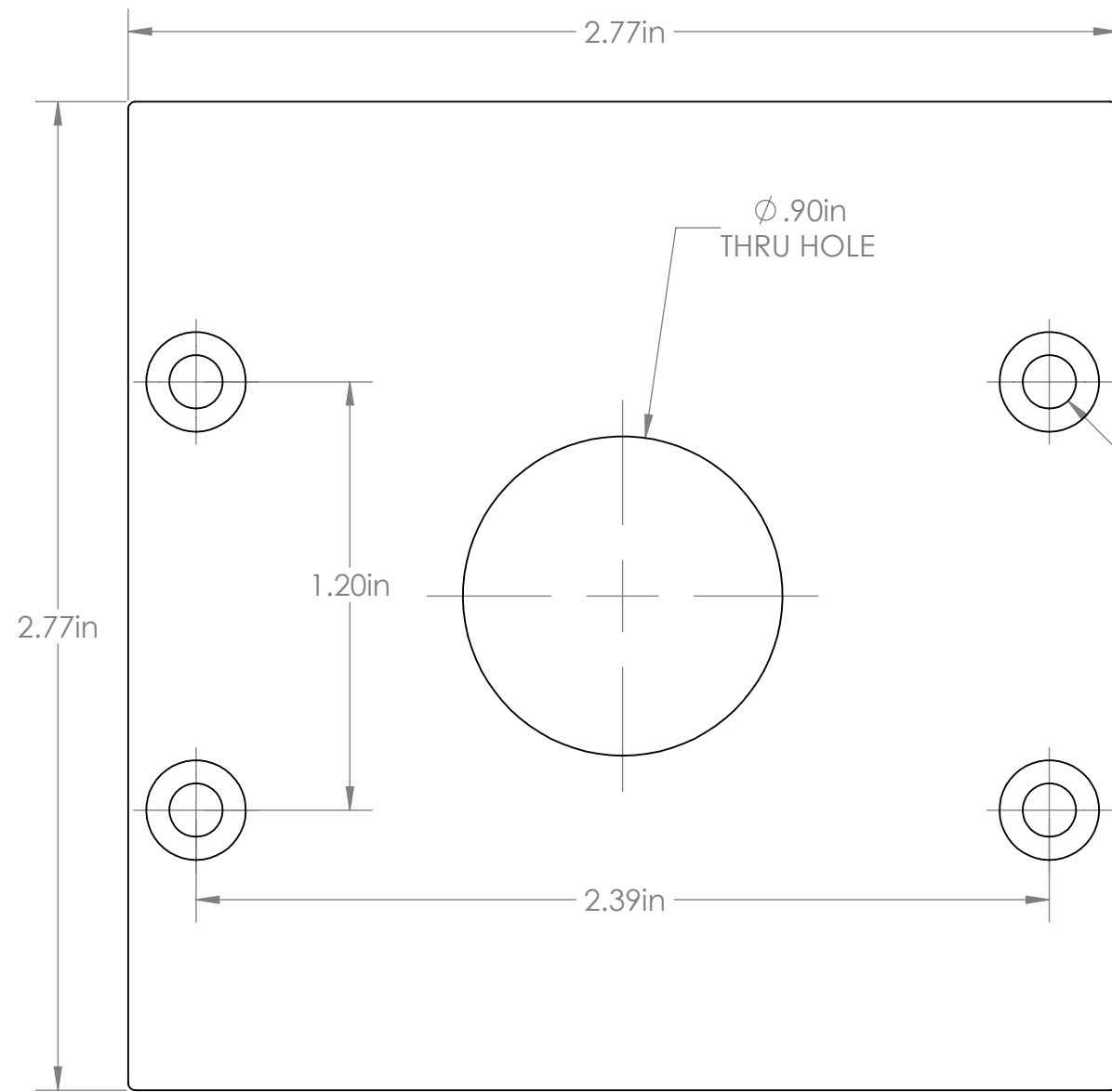
**NOTES:**

CCBS-0009

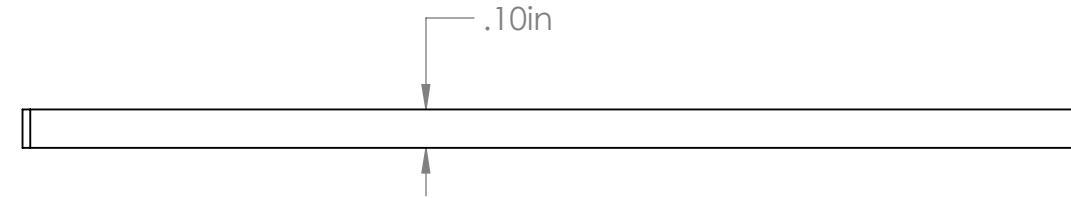
OenergyLighting, Inc.  
1110 Sligh Blvd  
Orlando, FL  
32806



Date: 12/22/2015  
By: TH  
Units: Inches  
Rev. 1  
Sheet: 1 of 1  
Scale: 1:12



4x  $\phi$ .15in  
Countersunk Holes  
for #6 Flathead Screw



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: ALUMINUM

3. PROTECTIVE FINISH: POWDERCOAT GRAY  
RAL 9018 49/72490 - 38/10018

4. CRITICAL DIMENSIONS SHOWN ARE FOR  
INSPECTION PURPOSES ONLY. FOR DIMENSIONS  
NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm$  1/16

ANGULAR:  $\pm$  1/4°

ONE PLACE DECIMAL  $\pm$  .03

TWO PLACE DECIMAL  $\pm$  .01

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED

APPROVED AS NOTED

SIGNED

PRINT NAME

DATE

**NOTES:**

CCBS-0010

OenergyLighting, Inc.  
1110 Sligh Blvd  
Orlando, FL  
32806



Date: 12/29/2015

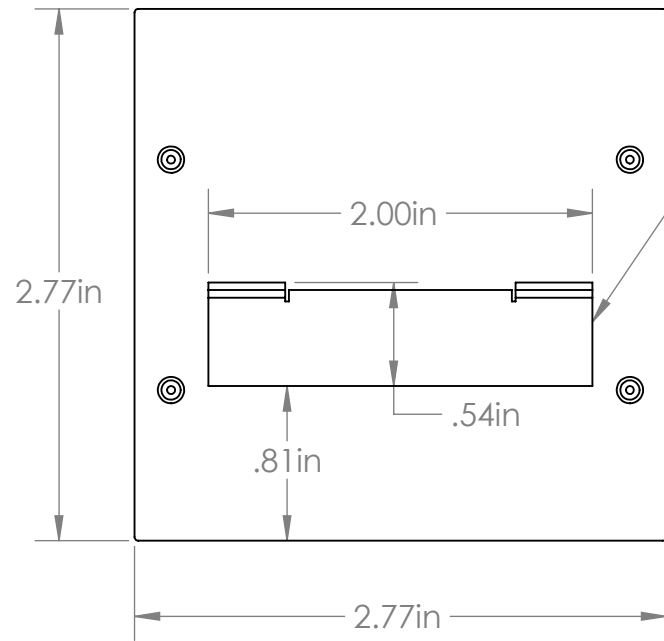
By: TH

Units: Inches

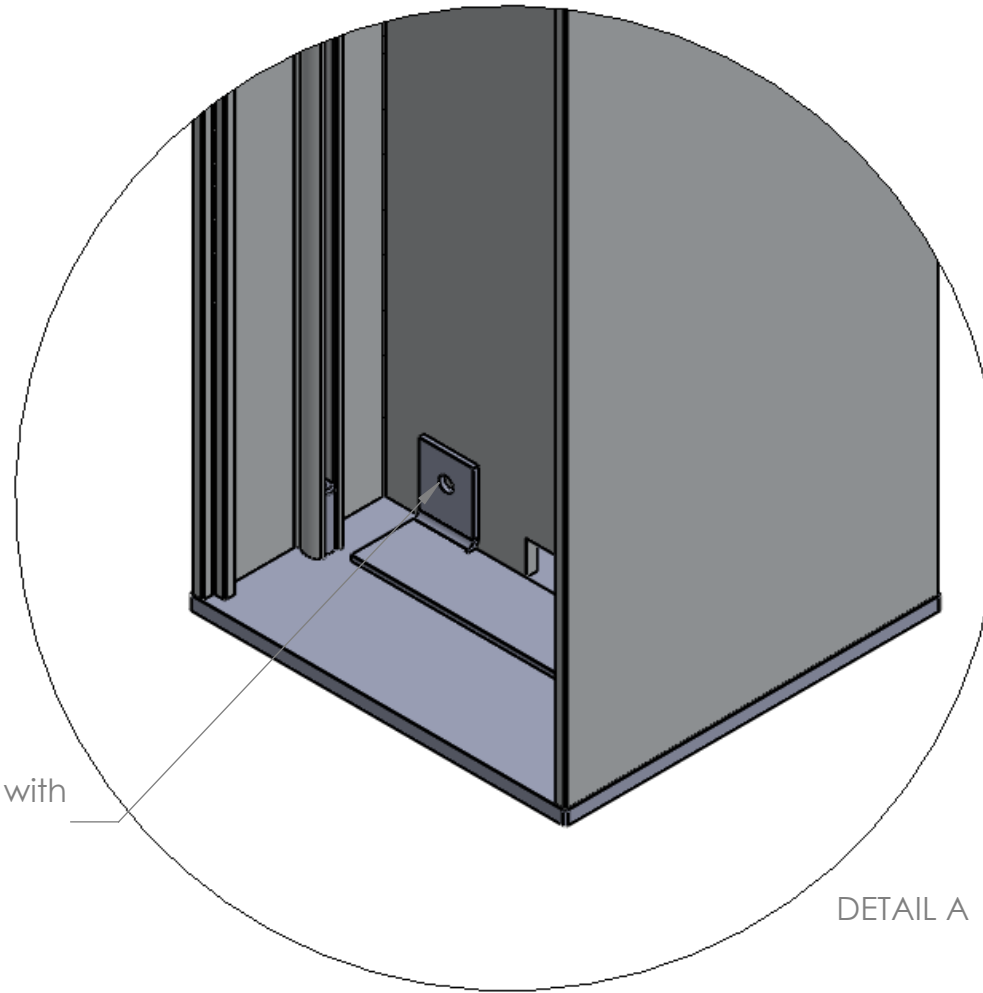
Rev. 1

Sheet: 1 of 1

Scale: 1:1



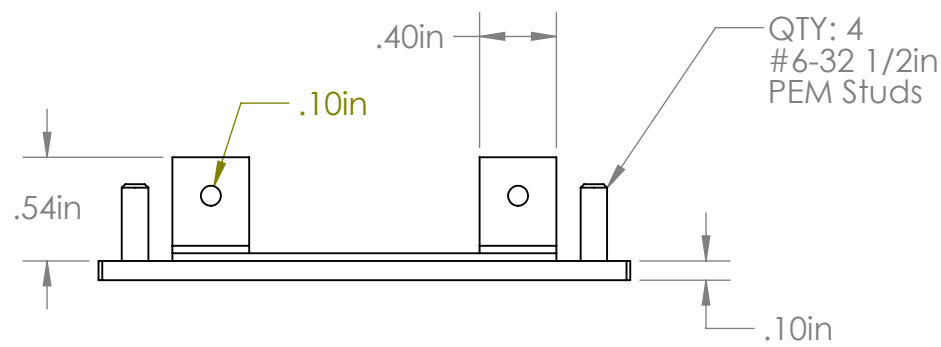
Tab Spot Welded to Base



Secured to Channel with Sheet Metal Screws



DETAIL A



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: Steel
3. PROTECTIVE FINISH: POWDERCOAT GRAY RAL 9018 49/72490 - 38/10018
4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm .03$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$   
 FOUR PLACE DECIMAL  $\pm .0005$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE
--------	------------	------

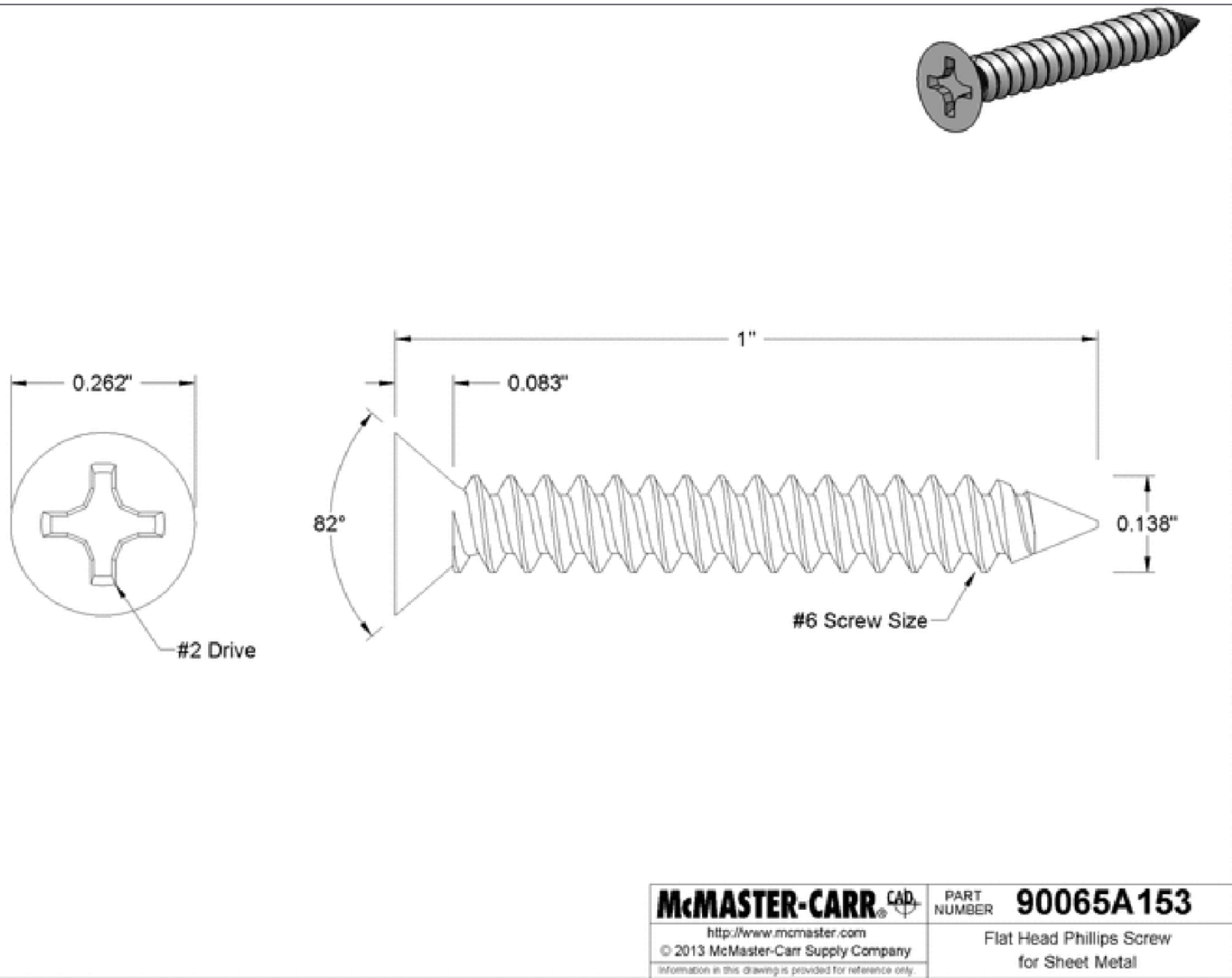
**NOTES:**

CCBS-0011v2

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:1



NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: STEEL
2. PROTECTIVE FINISH: WHITE TBD
3. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
4. DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR:  $\pm 1/4^\circ$   
ONE PLACE DECIMAL  $\pm 0.03$   
TWO PLACE DECIMAL  $\pm 0.01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
APPROVED AS NOTED

SIGNED	PRINT NAME	DATE
--------	------------	------

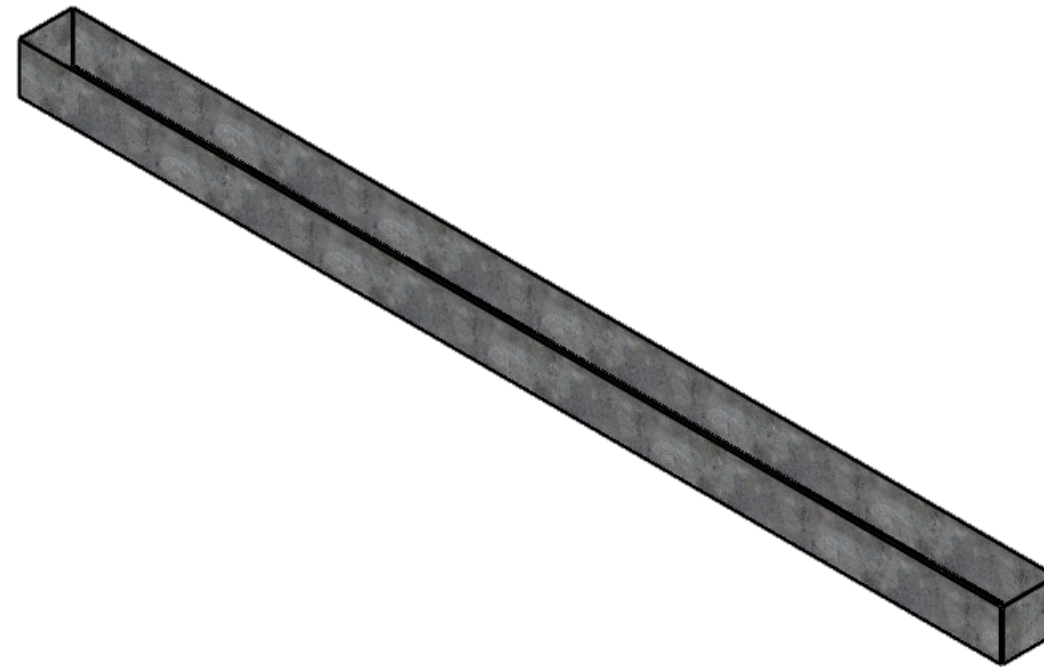
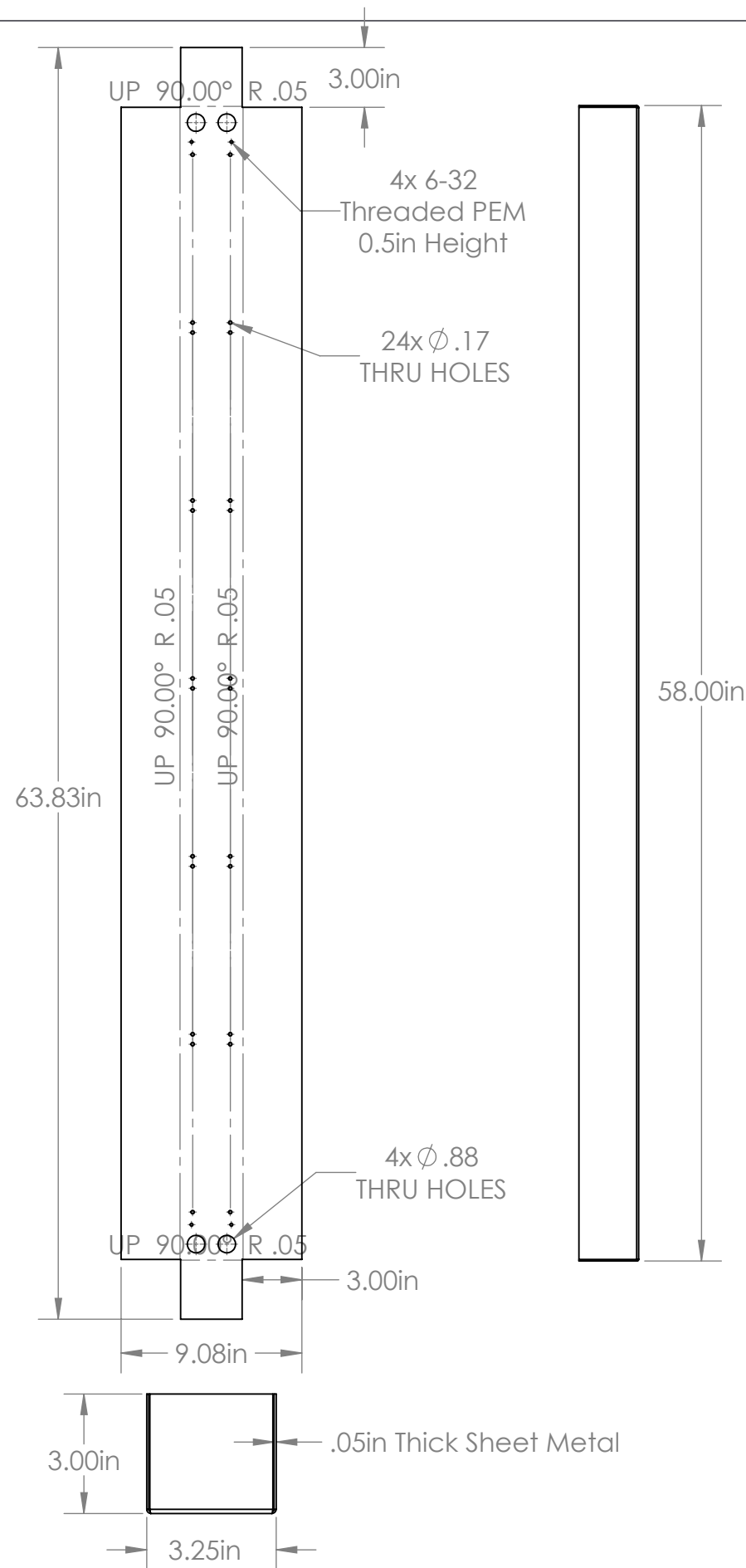
**NOTES:**

CCBS-0012

OenergyLighting, Inc.  
1110 Sligh Blvd  
Orlando, FL  
32806



Date: 12/22/2015  
By: TH  
Units: Inches  
Rev. 1  
Sheet: 1 of 1  
Scale: 1:1



NOTES: UNLESS OTHERWISE SPECIFIED

- 1.REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: GALVANIZED STEEL
3. PROTECTIVE FINISH: NONE
4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
5. DIMENSIONS ARE IN INCHES

TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: ± 1/4°  
 ONE PLACE DECIMAL +/- .03  
 TWO PLACE DECIMAL +/- .01

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

**NOTES:**

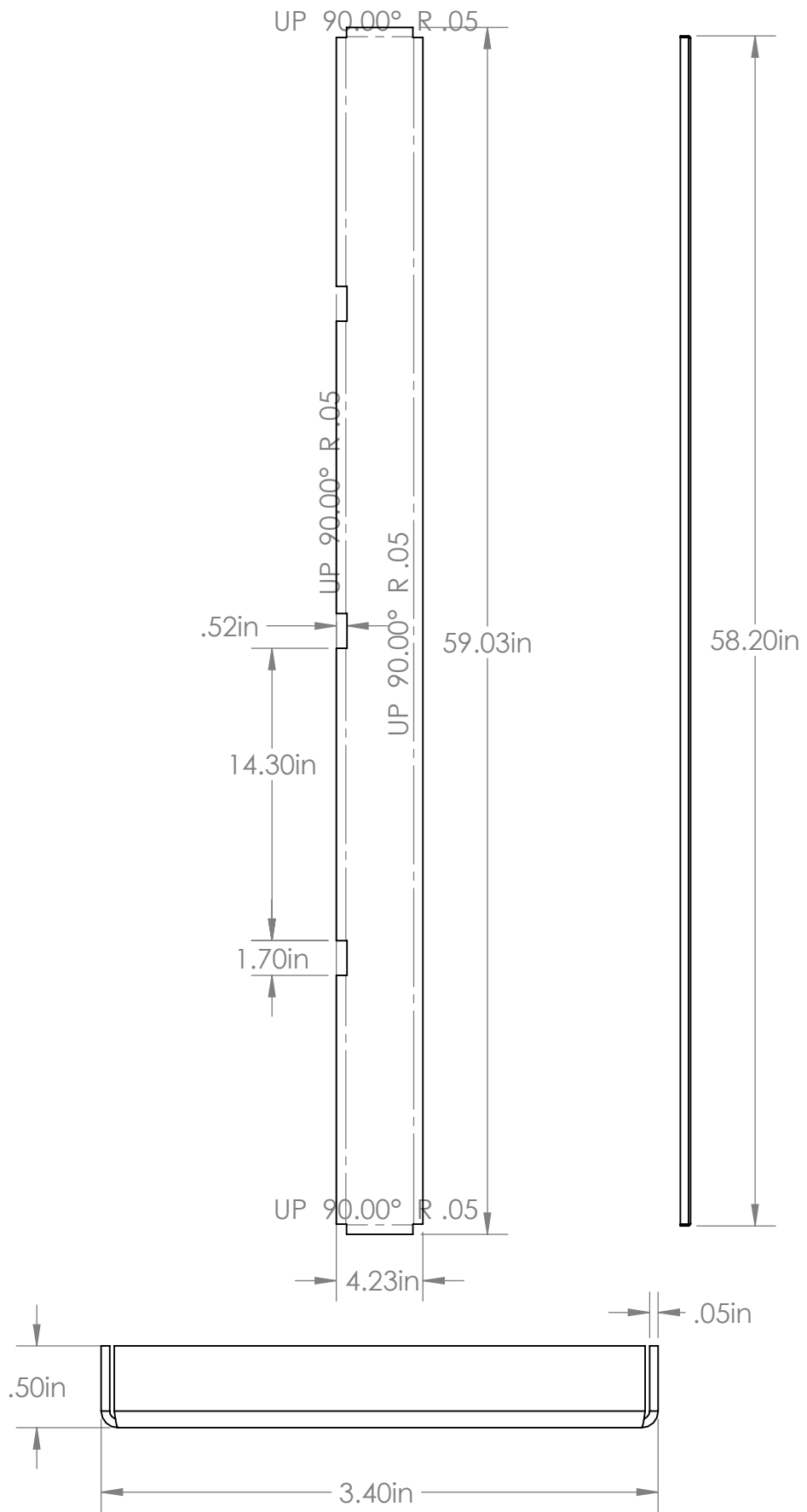
CCBS-0013

OenergyLighting, Inc.  
 1110 Sligh Blvd  
 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:8

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NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
2. MATERIAL: GALVANIZED STEEL
3. PROTECTIVE FINISH: NONE
4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
5. DIMENSIONS ARE IN INCHES

TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm .03$   
 TWO PLACE DECIMAL  $\pm .01$

**GENERAL BUILD NOTES:**

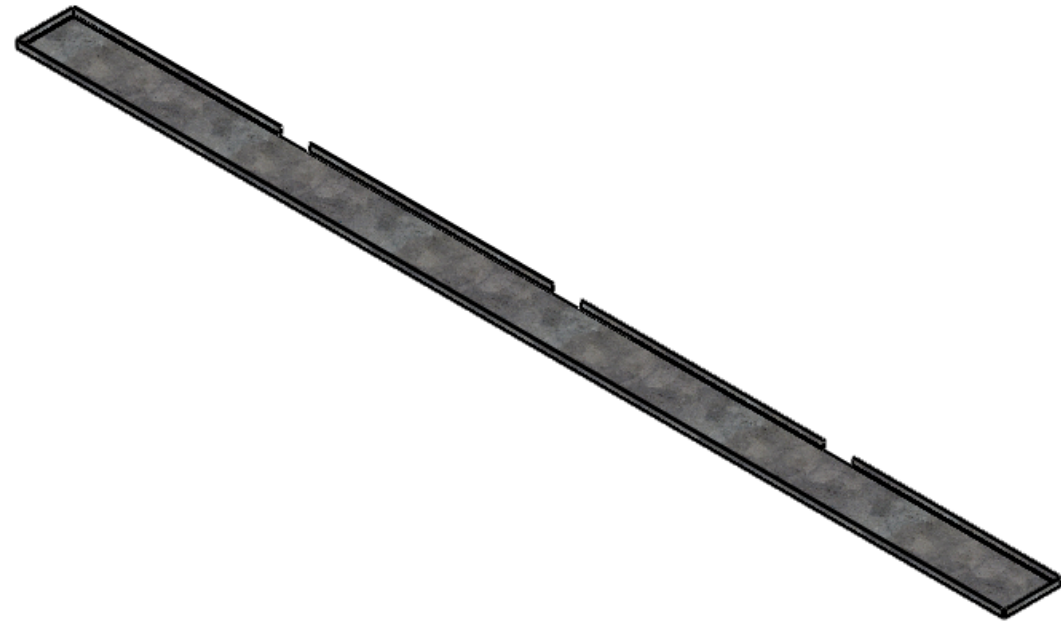
1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

**NOTES:**

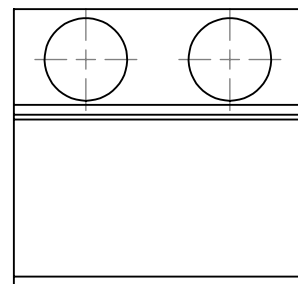
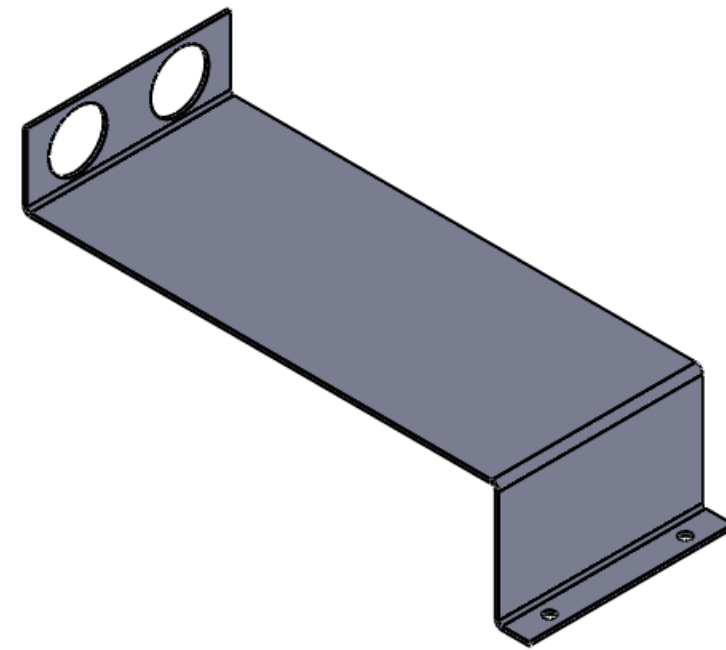
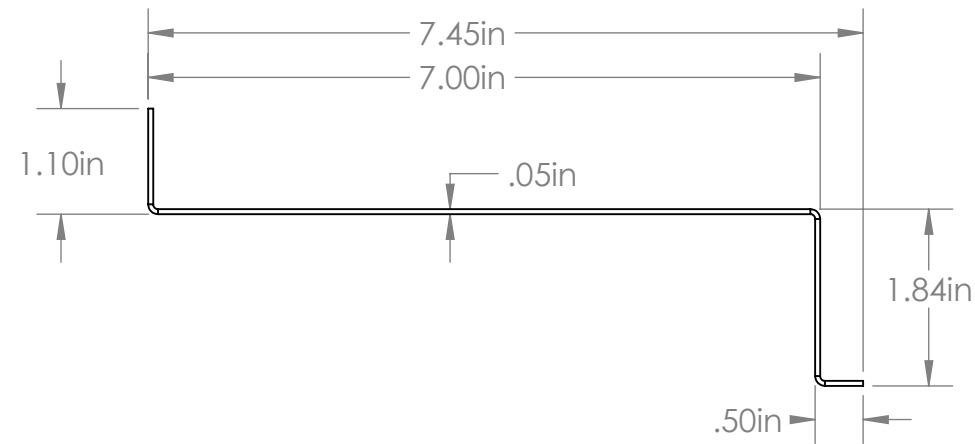
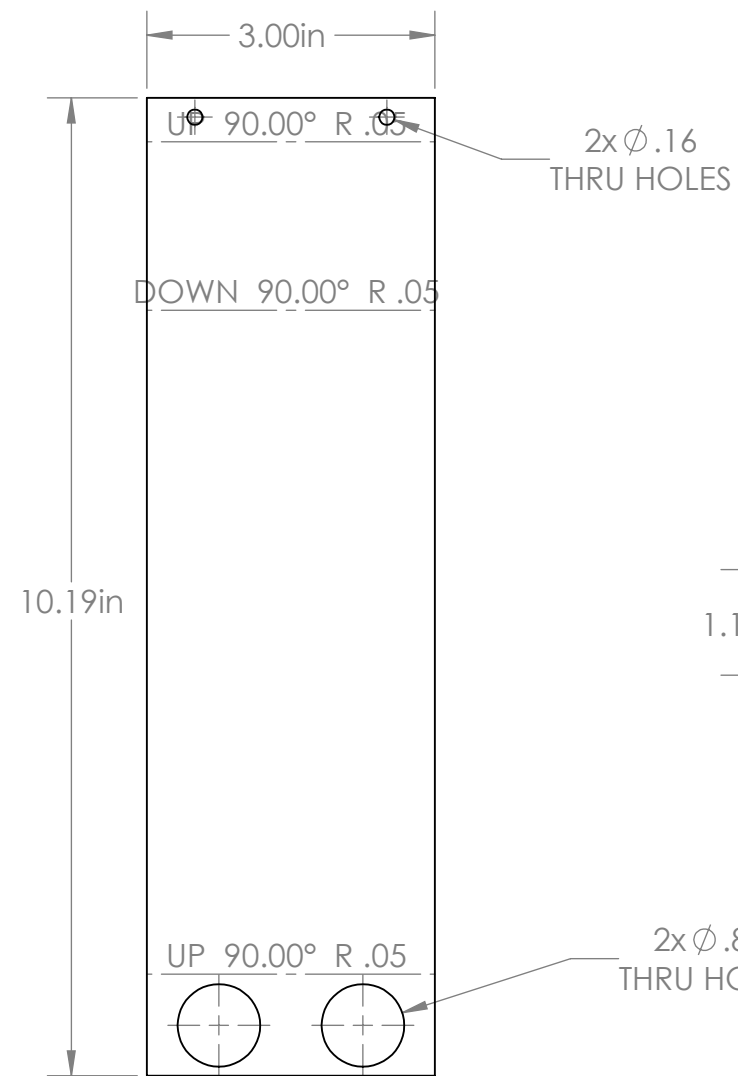


CCBS-0014

OenergyLighting, Inc.  
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 Orlando, FL  
 32806



Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:8



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: GALVANIZED STEEL

3. PROTECTIVE FINISH: NONE

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED

APPROVED AS NOTED

SIGNED

PRINT NAME

DATE

**NOTES:**

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Date: 12/29/2015

By: TH

Units: Inches

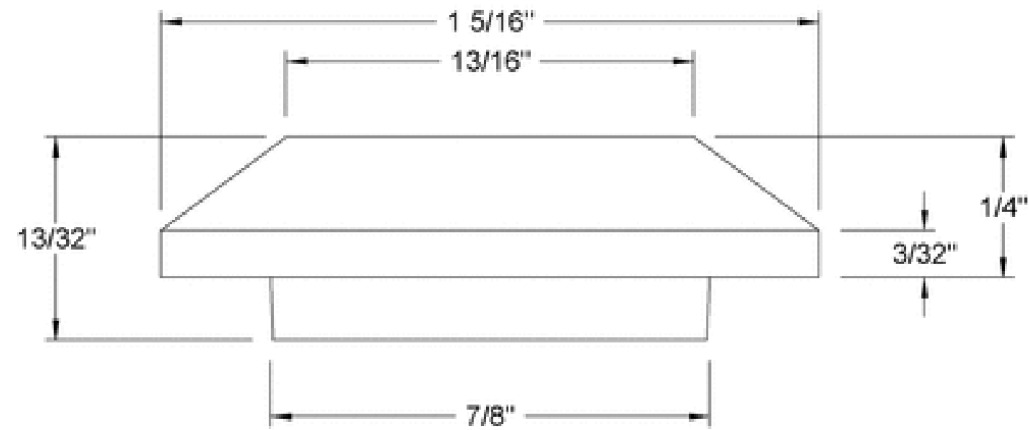
Rev. 1

Sheet: 1 of 1

Scale: 1:2



1/4 NPT Pipe Size, 18 Threads Per Inch



<b>McMASTER-CARR</b> CAD <a href="http://www.mcmaster.com">http://www.mcmaster.com</a> © 2014 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	PART NUMBER	<b>8694T42</b>
	Weld-On Fitting for Flat Tanks	

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: Aluminum
2. PROTECTIVE FINISH: POWDERCOAT GRAY RAL 9018 49/72490 - 38/10018
3. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
4. DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL ± 1/16  
ANGULAR: ± 1/4°  
ONE PLACE DECIMAL    +/- .03  
TWO PLACE DECIMAL    +/- .01

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
APPROVED AS NOTED

SIGNED	PRINT NAME	DATE

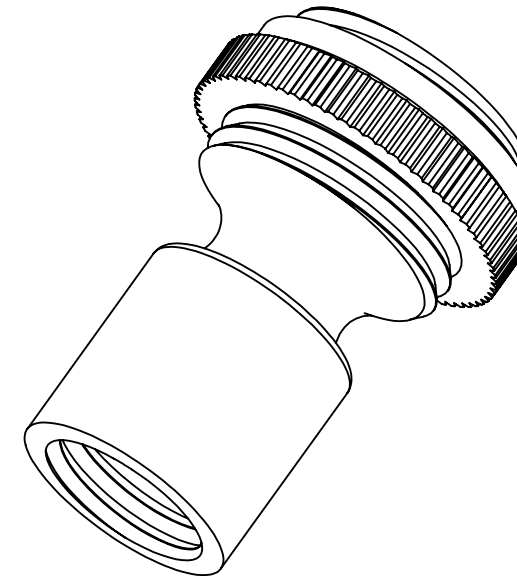
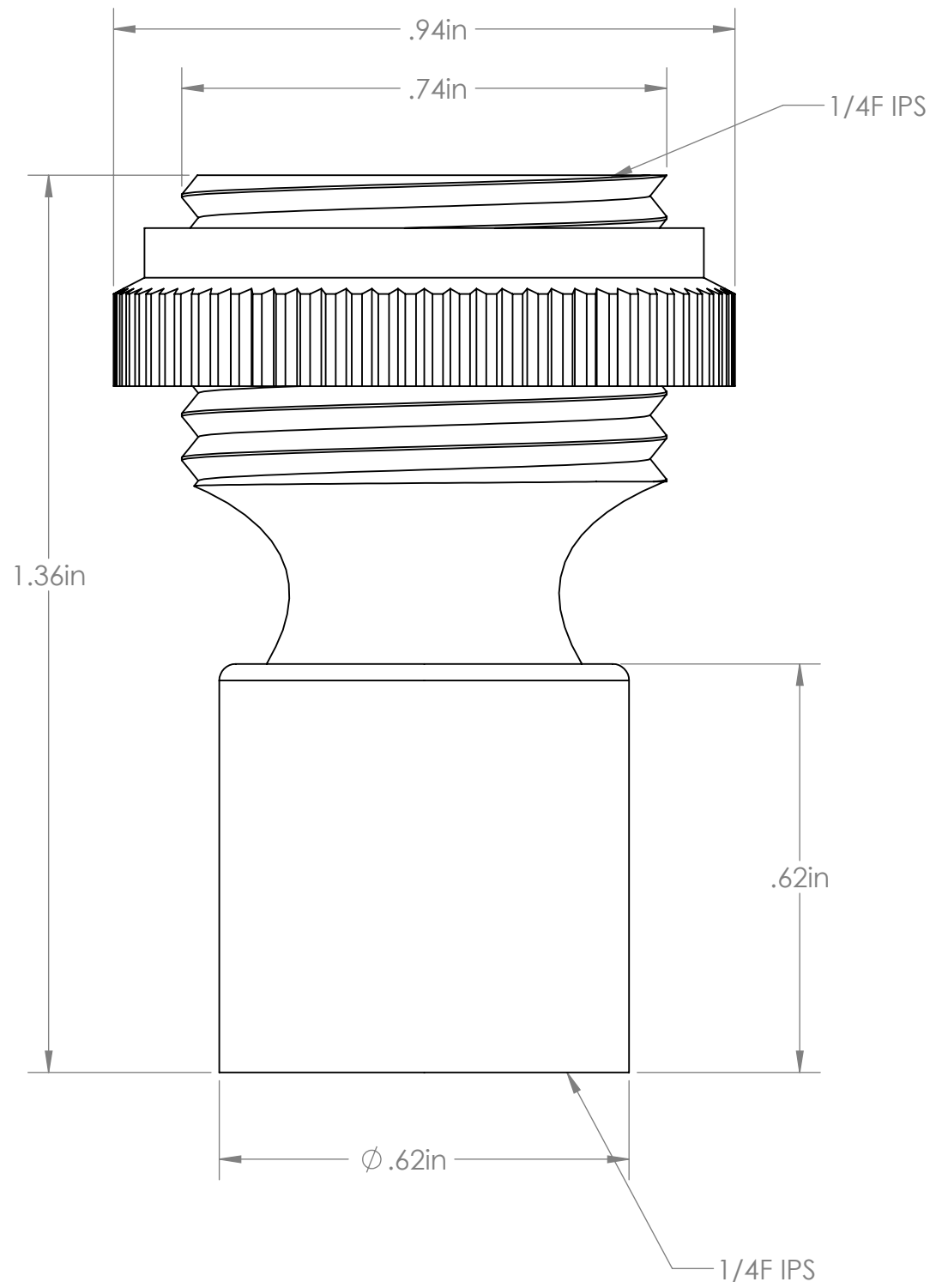
**NOTES:**

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32806



Date: 12/29/2015  
By: TH  
Units: Inches  
Rev. 1  
Sheet: 1 of 1  
Scale: 1:1



NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: BRASS

3. PROTECTIVE FINISH: WHITE TBD

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm .03$   
 TWO PLACE DECIMAL  $\pm .01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

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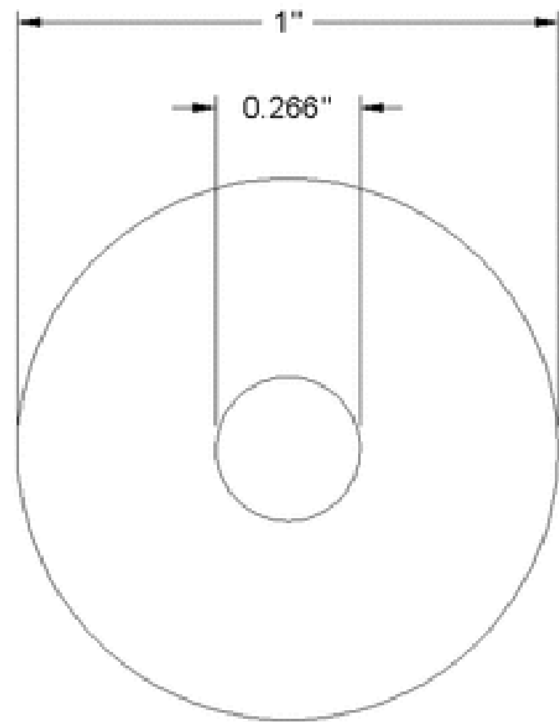
By: TH

Units: Inches

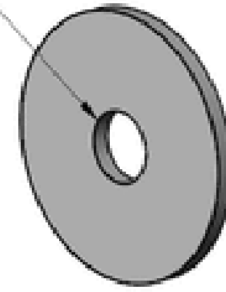
Rev. 1

Sheet: 1 of 1

Scale: 2:1



For 1/4"  
Screw Size



Washer may vary from  
0.059" to 0.069" in thickness.

<b>McMASTER-CARR</b> <small>CAD</small> <a href="http://www.mcmaster.com">http://www.mcmaster.com</a> © 2014 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	PART NUMBER	<b>91922A219</b>
		Mil. Spec. Washer

Military Specification: MS51412-24

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: None

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

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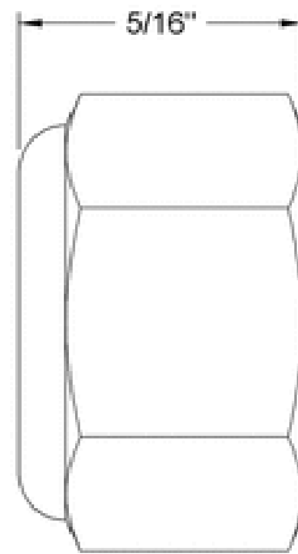
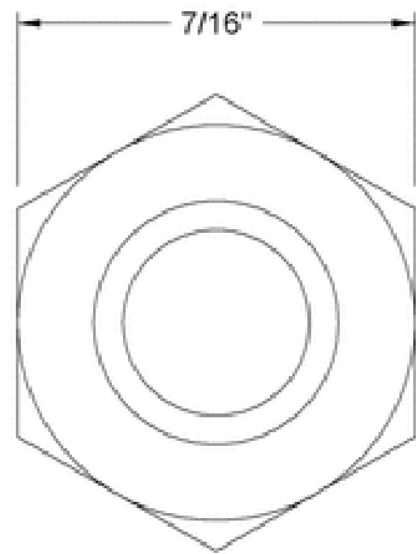
By: TH

Units: Inches

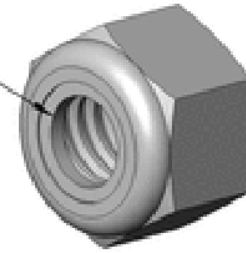
Rev. 1

Sheet: 1 of 1

Scale: 1:1



1/4"-20 Thread



<b>McMASTER-CARR</b> CAD <a href="http://www.mcmaster.com">http://www.mcmaster.com</a> © 2015 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	PART NUMBER	<b>95615A120</b>
		Nylon-Insert Locknut

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: Zinc-Plated

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

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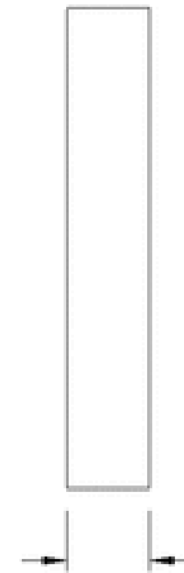
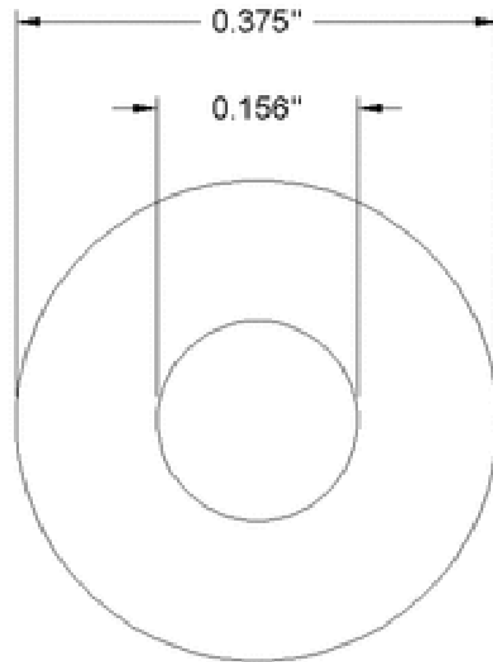
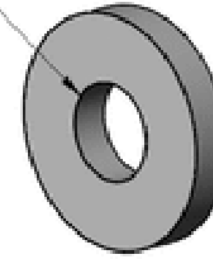
Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:1

For #6  
Screw Size



Washer may vary from  
0.036" to 0.065" in thickness.

<b>McMASTER-CARR</b> <small>CAD</small>	PART NUMBER	<b>91922A211</b>
<small>http://www.mcmaster.com © 2014 McMaster-Carr Supply Company Information in this drawing is provided for reference only.</small>		Mil. Spec. Washer

Military Specification: MS51412-1

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: Zinc Plated

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

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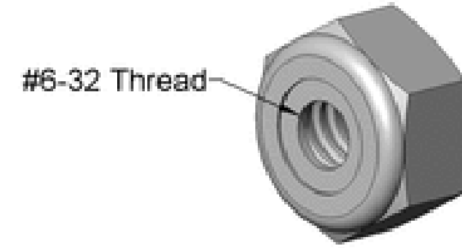
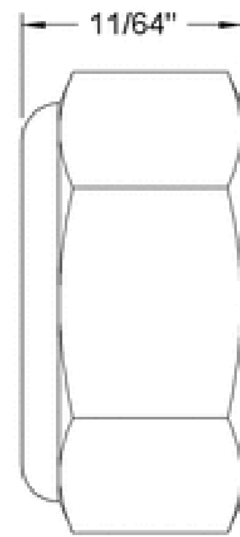
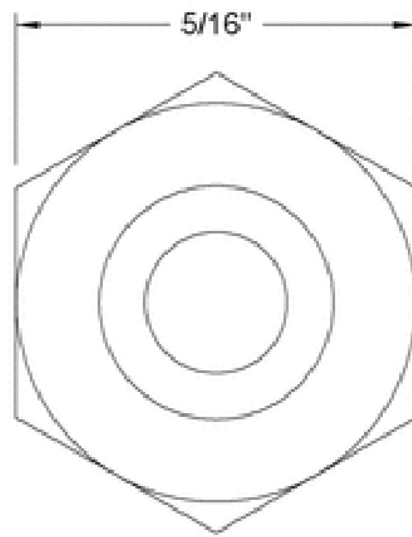
By: TH

Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:1



<b>McMASTER-CARR</b> <small>CAD</small>	<b>PART NUMBER</b> <b>90631A007</b>
<a href="http://www.mcmaster.com">http://www.mcmaster.com</a> © 2015 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	<b>Nylon-Insert Locknut</b>

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: Zinc Plated

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

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Date: 1/8/2016

By: TH

Units: Inches

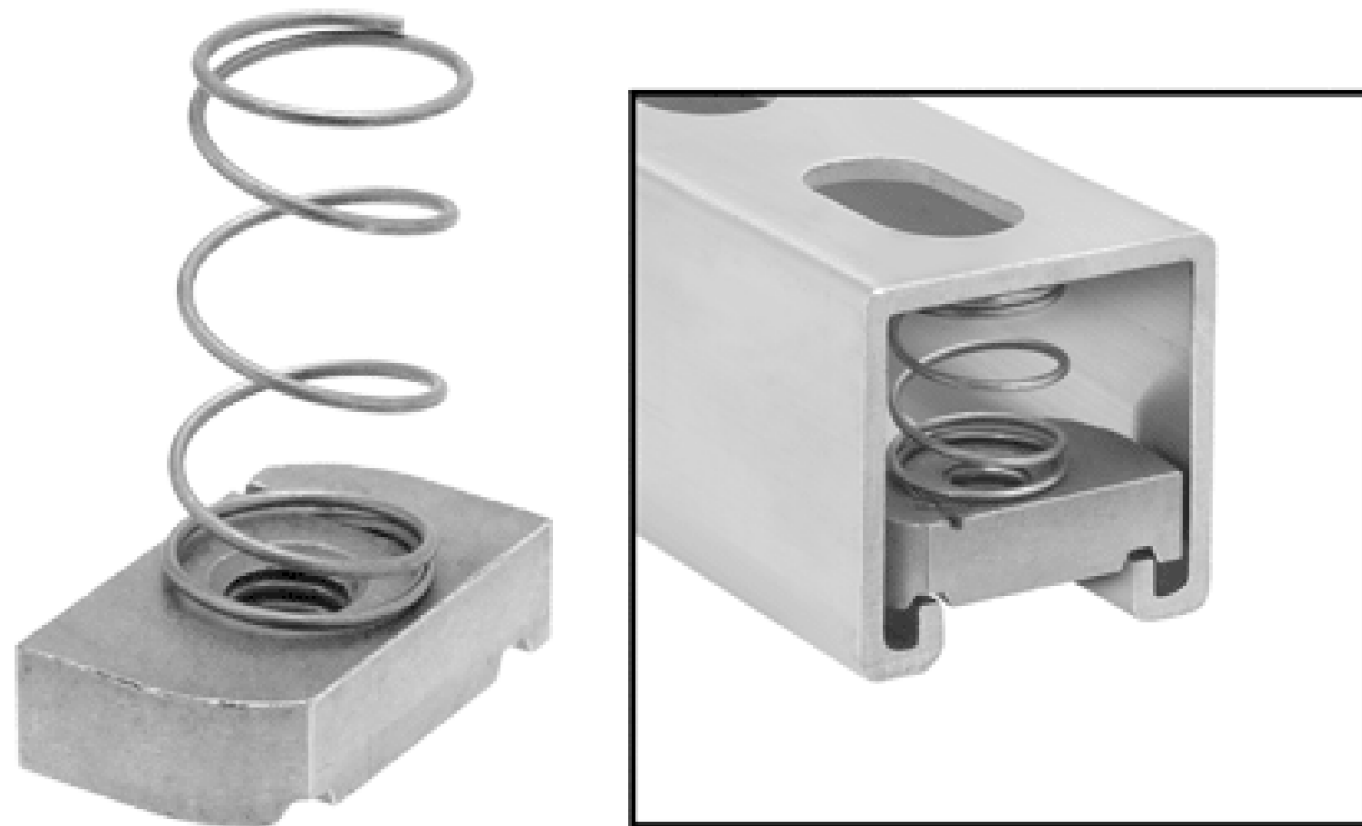
Rev. 1

Sheet: 1 of 1

Scale: 1:1

# Nut for Strut Channel

with Spring, Zinc, for 13/16" Deep Strut, 1/4"-20 Thread



Material	Zinc-Plated Steel
----------	-------------------

Thread Size	1/4"-20
-------------	---------

For Strut Channel Width	1 5/8"
-------------------------	--------

For Strut Channel Height	13/16"
--------------------------	--------

A spring plus serrated grooves that grip the lip of the channel provide a more secure hold than standard strut channel nuts.

Zinc-plated steel nuts offer good corrosion resistance.

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Zinc-Plated Steel

3. PROTECTIVE FINISH: None

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

## GENERAL BUILD NOTES:

1. Material: Per Part Drawing
2. Installation Provided By Others

## APPROVAL:

APPROVED

APPROVED AS NOTED

SIGNED

PRINT NAME

DATE

## NOTES:

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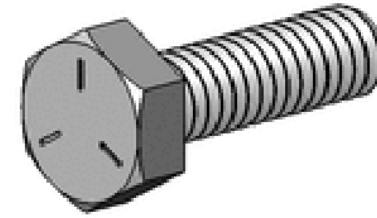
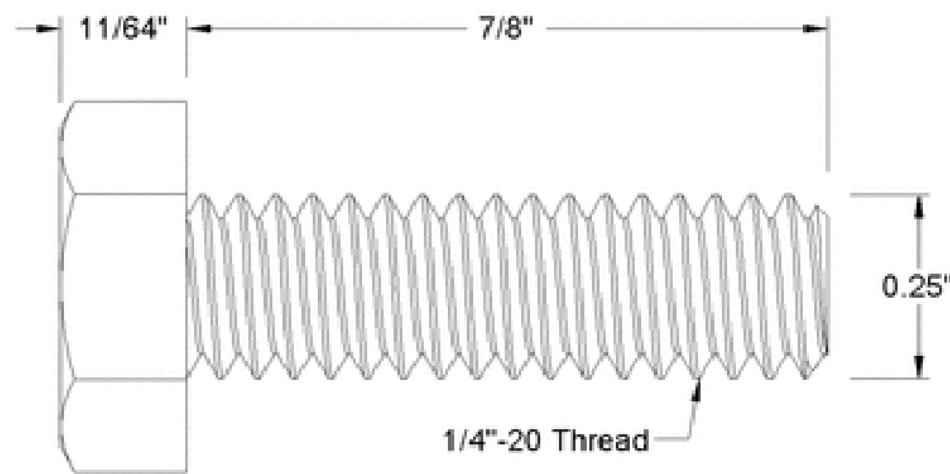
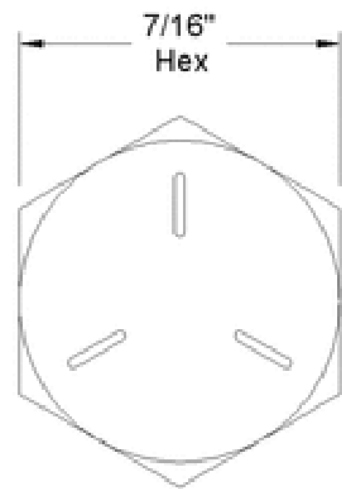
By: TH

Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:1



<b>McMASTER-CARR</b> <small>CAD</small> <a href="http://www.mcmaster.com">http://www.mcmaster.com</a> © 2014 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	PART NUMBER <b>92865A541</b>
	Medium-Strength Steel Cap Screw - Grade 5

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: Zinc Plated

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

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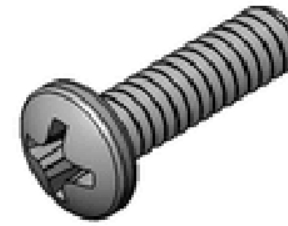
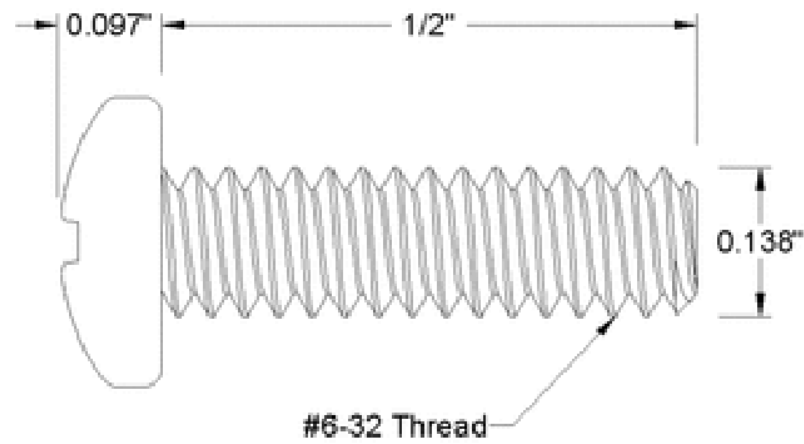
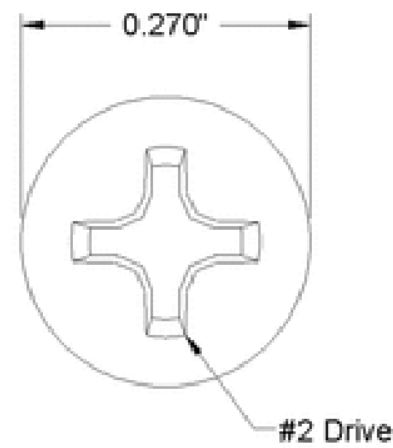
Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:1





<b>McMASTER-CARR</b> <small>CAD</small>	<b>PART NUMBER</b> <b>90272A148</b>
<a href="http://www.mcmaster.com">http://www.mcmaster.com</a>	Pan Head Phillips
© 2012 McMaster-Carr Supply Company	Machine Screw
<small>Information in this drawing is provided for reference only.</small>	

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: Zinc Plated

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

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By: TH

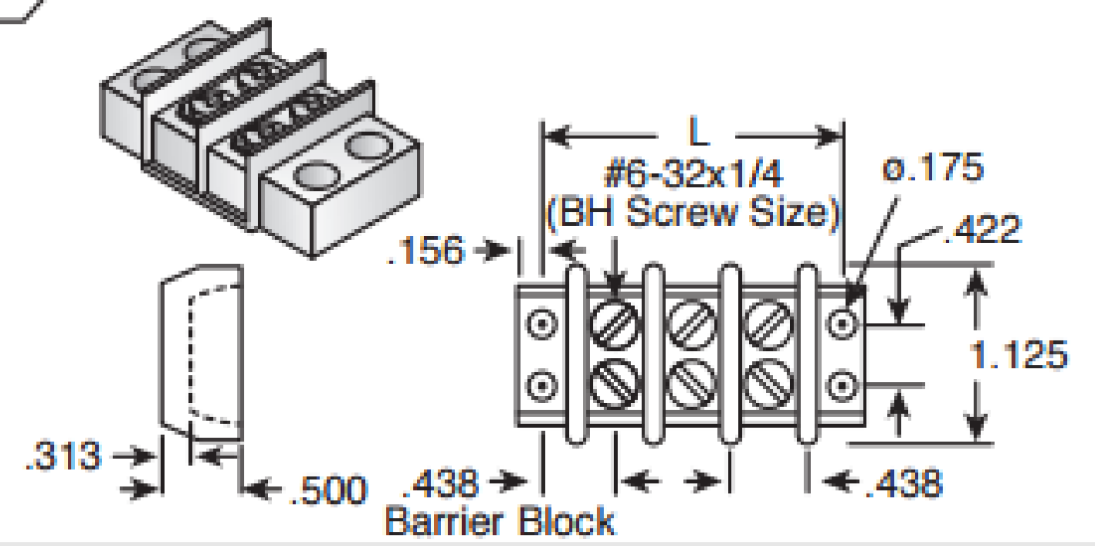
Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:1

**B**



MOUSER STOCK NO.	Cinch Part No.	Fig.	No. of Terminals	L Dimension (in.)
<b>Barrier Blocks</b>				
538-12141	12-141	B	12	5.687

**Specifications:**

- Voltage rating: 250VAC<sub>RMS</sub>
- Current rating: 20A max.
- Withstanding voltage without marker strip: 1100VAC<sub>RMS</sub> max.
- Withstanding voltage with marker strip: 2400VAC<sub>RMS</sub> max.
- Maximum watts per terminal: 5000

**Mechanical Specifications:**

- Maximum wire size: #14AWG
- Recommended tightening torque: 12lb. -in.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1.REMOVE BURRS & BREAK SHARP EDGES.
  2. MATERIAL: Aluminum
  3. PROTECTIVE FINISH: POWDERCOAT PER ORDER
  4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
  5. DIMENSIONS ARE IN INCHES
- TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: ± 1/4°  
 ONE PLACE DECIMAL    +/- .03  
 TWO PLACE DECIMAL    +/- .01  
 THREE PLACE DECIMAL   +/- .005  
 FOUR PLACE DECIMAL   +/- .0005

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED                      PRINT NAME                      DATE

**NOTES:**

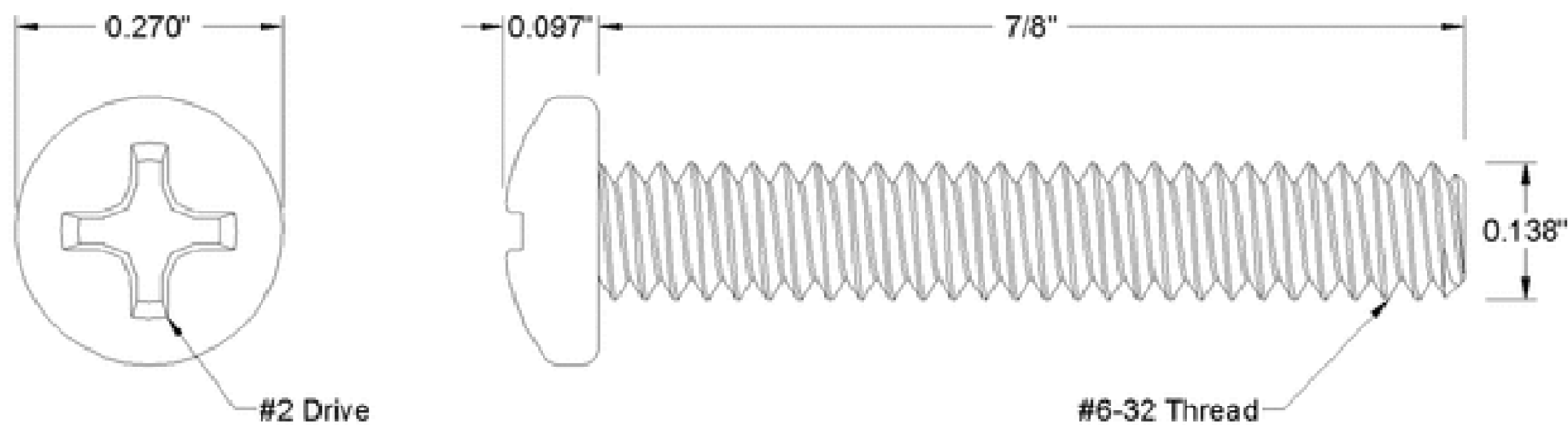
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 By: TH  
 Units: Inches  
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 Scale: 1:1

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<b>McMASTER-CARR</b> <small>CAD</small>	<b>PART NUMBER</b> <b>90272A152</b>
<a href="http://www.mcmaster.com">http://www.mcmaster.com</a> © 2012 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>	Pan Head Phillips Machine Screw

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: Zinc Plated

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

CCBS-0026

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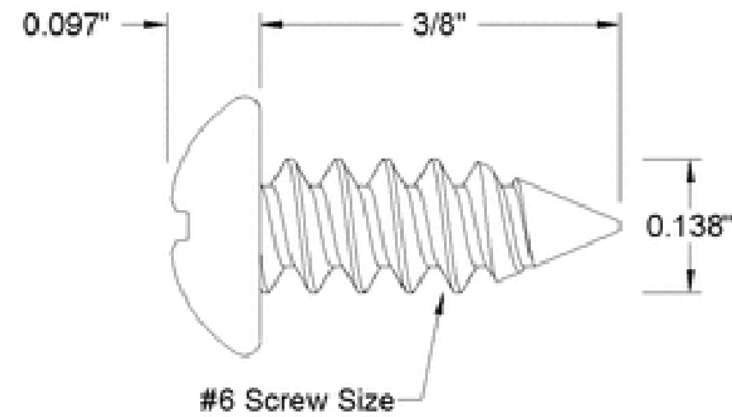
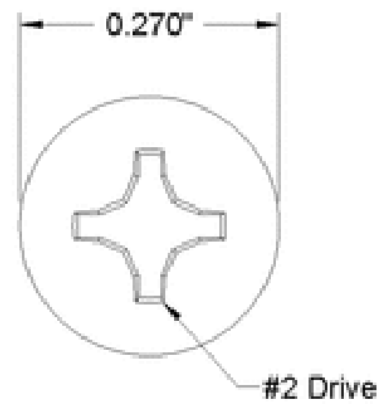
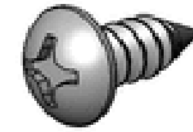
By: TH

Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:1



<b>McMASTER-CARR</b> <small>CAD</small>	<b>PART NUMBER</b>	<b>90190A146</b>
<a href="http://www.mcmaster.com">http://www.mcmaster.com</a> © 2013 McMaster-Carr Supply Company <small>Information in this drawing is provided for reference only.</small>		Phillips Screw for Sheet Metal

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.

2. MATERIAL: Steel

3. PROTECTIVE FINISH: Zinc Plated

4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.

5. DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL  $\pm 1/16$

ANGULAR:  $\pm 1/4^\circ$

ONE PLACE DECIMAL  $\pm .03$

TWO PLACE DECIMAL  $\pm .01$

THREE PLACE DECIMAL  $\pm .005$

FOUR PLACE DECIMAL  $\pm .0005$

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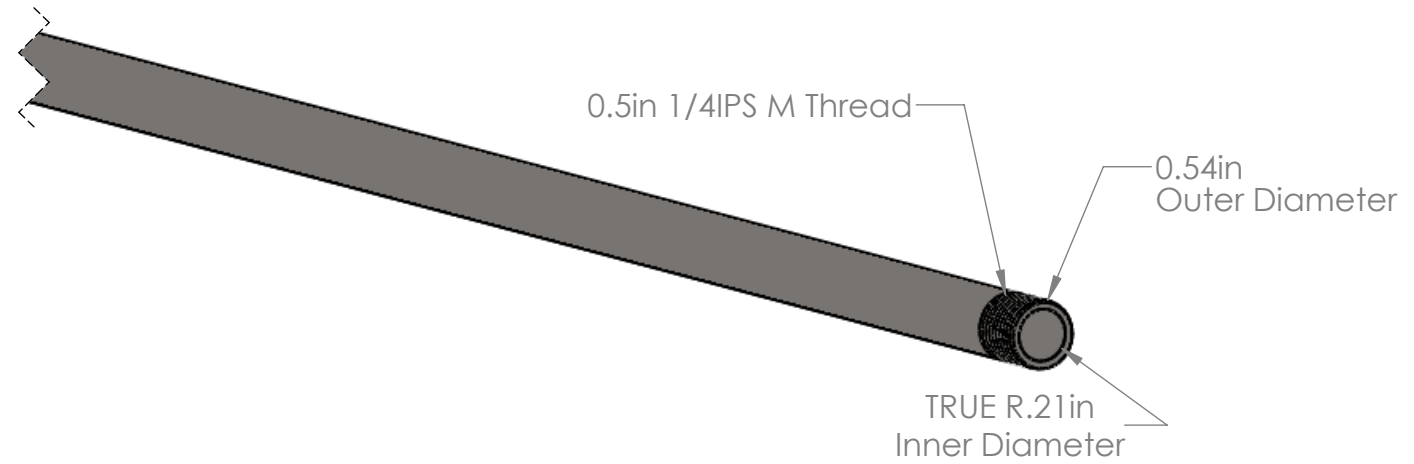
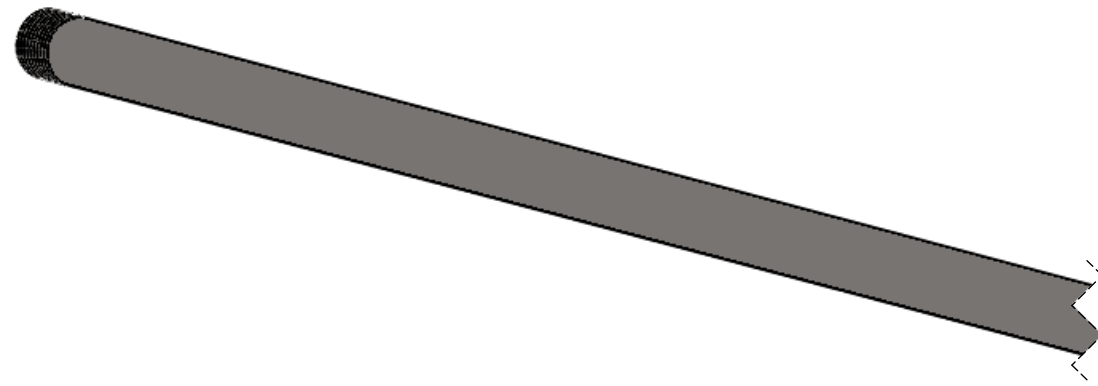
By: TH

Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:1



Part Number	Pipe Lengths
IPS-1_4-7.625	7.625in
IPS-1_4-15.625	15.625in
IPS-1_4-23.625	23.625in
IPS-1_4-31.625	31.625in
IPS-1_4-33.75	33.75in
IPS-1_4-39.625	39.625in
IPS-1_4-41.75	41.75in
IPS-1_4-47.625	47.625in
IPS-1_4-49.75	49.75in
IPS-1_4-55.625	55.625in
IPS-1_4-57.75	57.75in
IPS-1_4-63.625	63.625in
IPS-1_4-65.75	65.75in
IPS-1_4-71.625	71.625in
IPS-1_4-73.75	73.75in
IPS-1_4-79.625	79.625in
IPS-1_4-81.75	81.75in
IPS-1_4-87.625	87.625in
IPS-1_4-89.75	89.75in
IPS-1_4-97.75	97.75in
IPS-1_4-105.75	105.75in
IPS-1_4-113.75	113.75in

NOTES: UNLESS OTHERWISE SPECIFIED

1. REMOVE BURRS & BREAK SHARP EDGES.
  2. MATERIAL: IRON
  3. PROTECTIVE FINISH: POWDERCOAT WHITE RAL 9010 49/11500 - 38/10004
  4. CRITICAL DIMENSIONS SHOWN ARE FOR INSPECTION PURPOSES ONLY. FOR DIMENSIONS NOT SHOWN REFER TO 3D PART FILE.
  5. DIMENSIONS ARE IN INCHES
- TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR:  $\pm 1/4^\circ$   
 ONE PLACE DECIMAL  $\pm 0.03$   
 TWO PLACE DECIMAL  $\pm 0.01$

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED  
 APPROVED AS NOTED

SIGNED	PRINT NAME	DATE
--------	------------	------

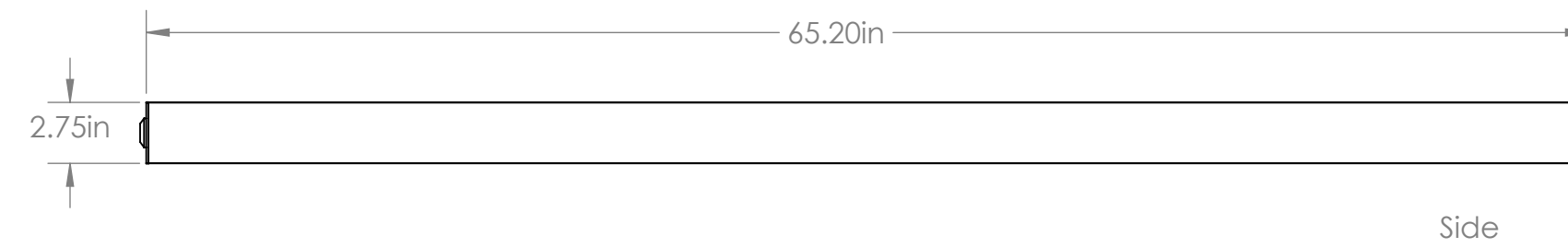
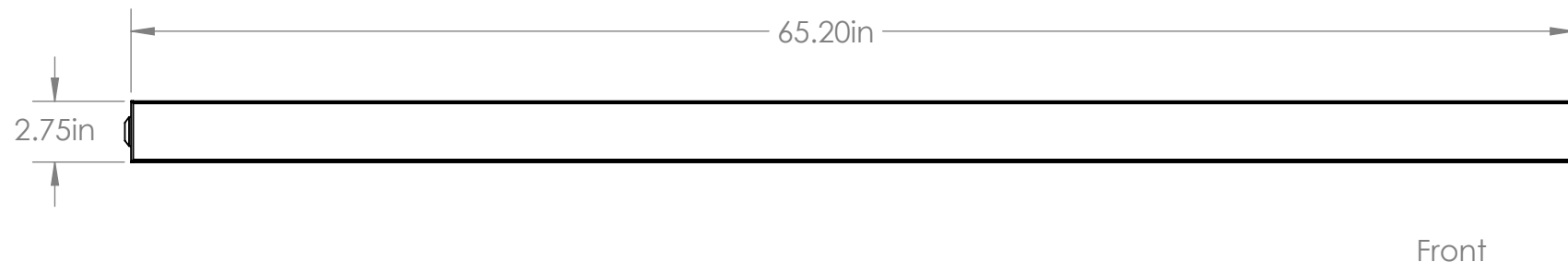
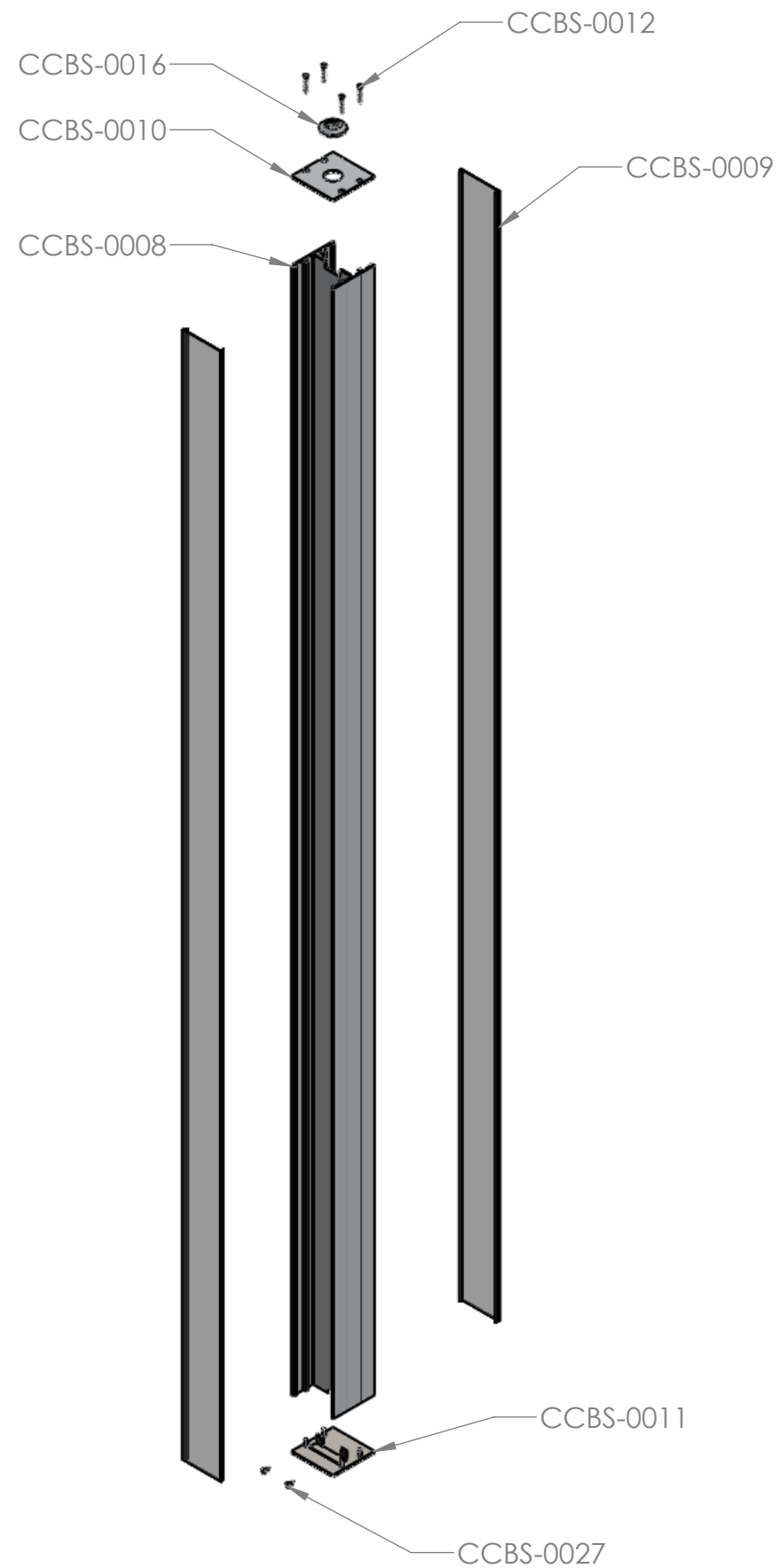
**NOTES:**

Pipe  
1/4M IPS

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Date: 12/29/2015  
 By: TH  
 Units: Inches  
 Rev. 1  
 Sheet: 1 of 1  
 Scale: 1:12



Approx Weight  
6.13lbs

Tapelight and Lead Wire  
Not Shown

PART NUMBER	QTY.
CCBS-0008	1
CCBS-0009	2
CCBS-0010	1
CCBS-0011	1
CCBS-0012	4
CCBS-0016	1
CCBS-0027	2

**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED

APPROVED AS NOTED

**NOTES:**

SIGNED	PRINT NAME	DATE

Channel Assembly

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Date: 1/13/2016

By: TH

Units: Inches

Rev. 1

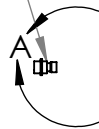
Sheet: 1 of 1

Scale: 1:12

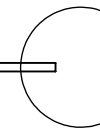
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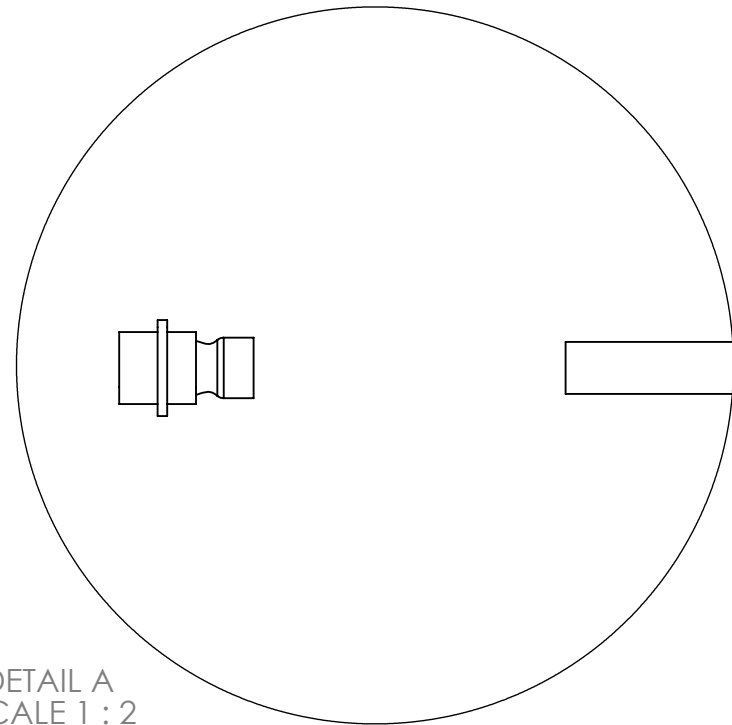
Hang Straights  
Provided by VQL



Pipes of Assorted Lengths  
Provided by VQL

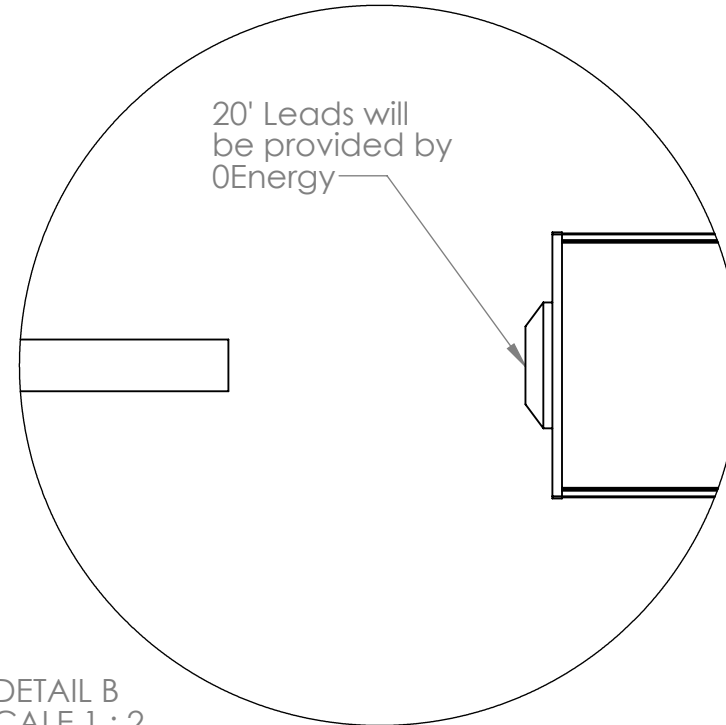


Channel Fixtures to be Assembled  
and Provided by 0Energy



DETAIL A  
SCALE 1 : 2

Step 1: Attach Pipe (IPS-1\_4-xx.xx) to  
Hang straight (CCBS-0017)



DETAIL B  
SCALE 1 : 2

Step 2: Run Wire from Channel Fixture through Pipe  
and Attach the Pipe to the end of the Fixture.

PART NUMBER	QTY.
Channel Assembly	1
IPS-1_4-xx.xx	1
CCBS-0017	1

### Pendant Assembly Steps

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Date: 1/13/2016

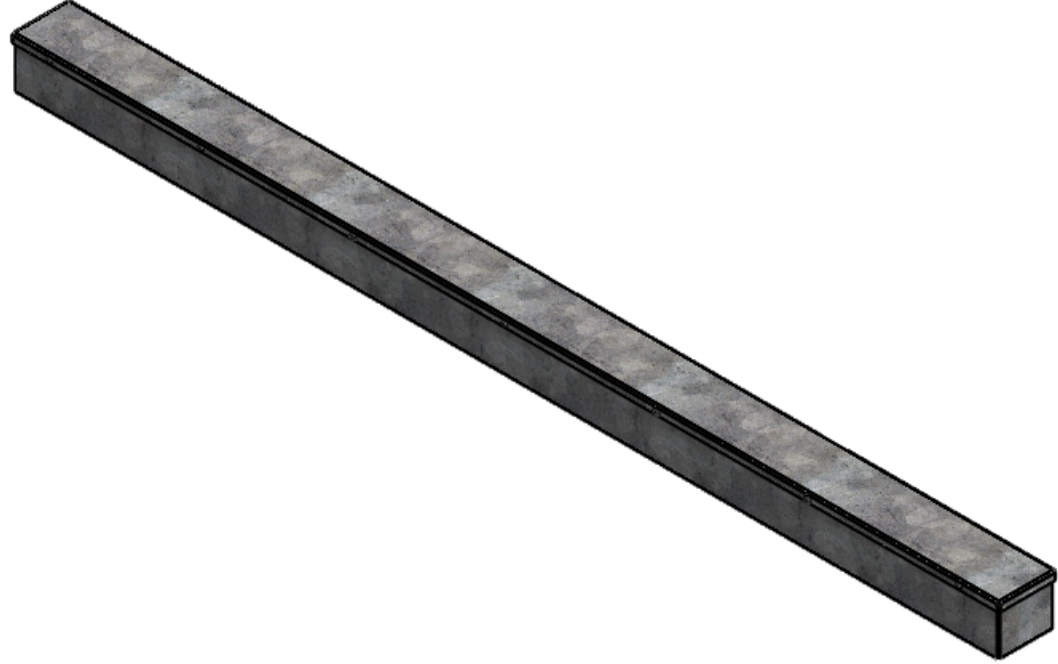
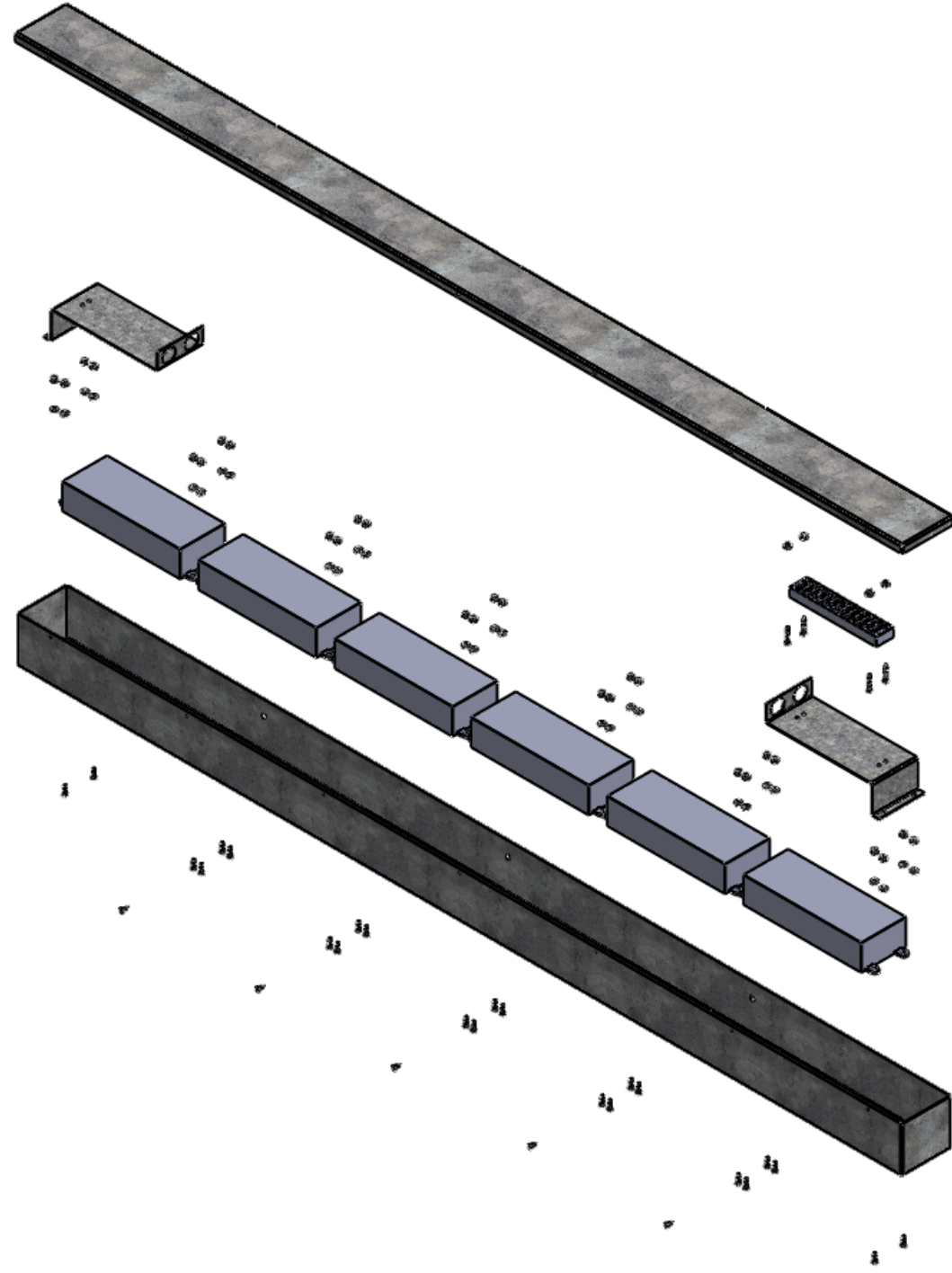
By: TH

Units: Inches

Rev. 1

Sheet: 1 of 1

Scale: 1:24



ITEM NO.	PART NUMBER	QTY.
1	CCBS-0013	1
2	XLAV80	6
3	CCBS-0015	2
5	CCBS-0014	1
7	CCBS-0024	24
8	CCBS-0020	28
9	CCBS-0021	32
10	CCBS-0025	1
11	CCBS-0026	4
12	CCBS-0027	7

Power Supply Assembly Steps

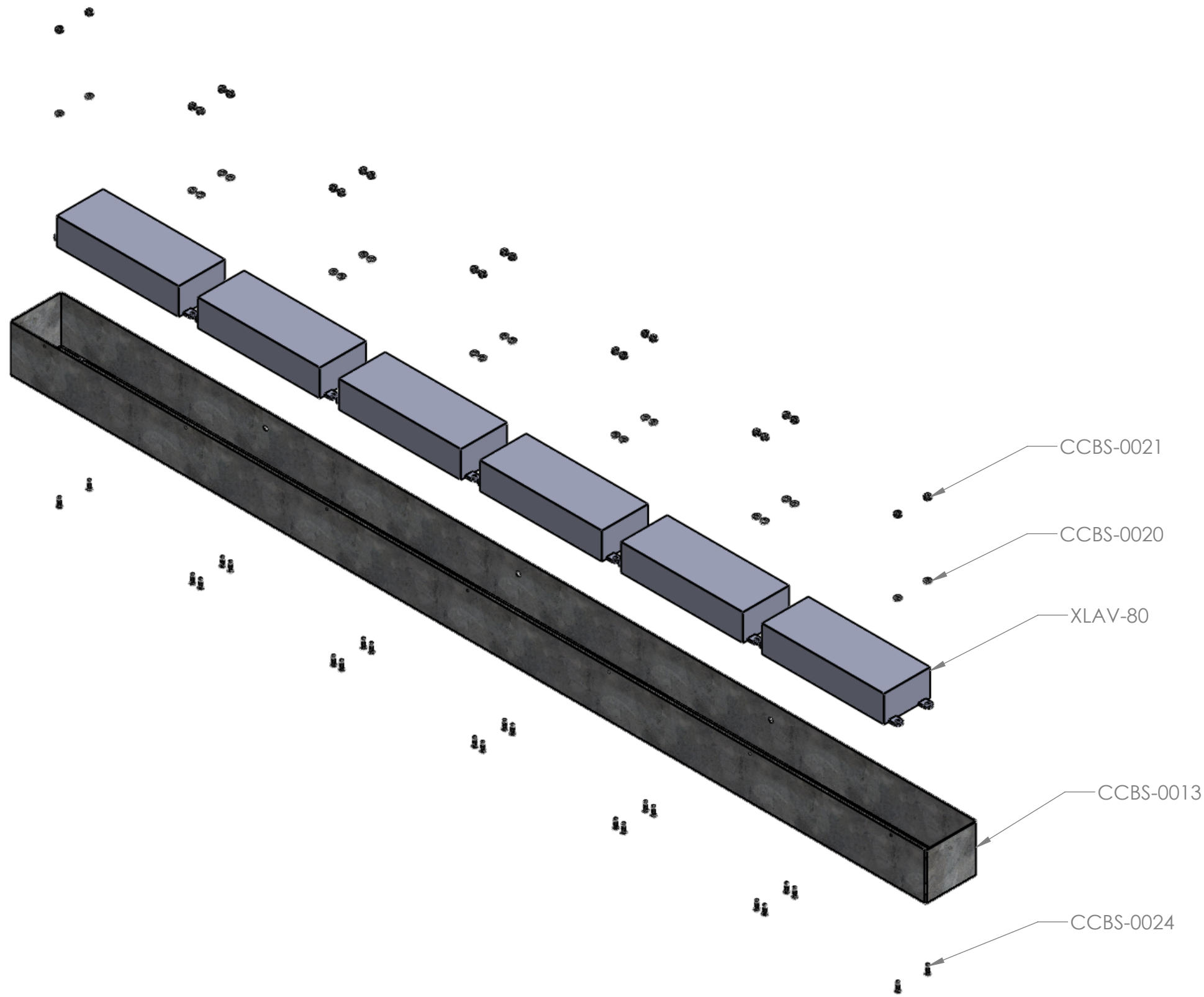
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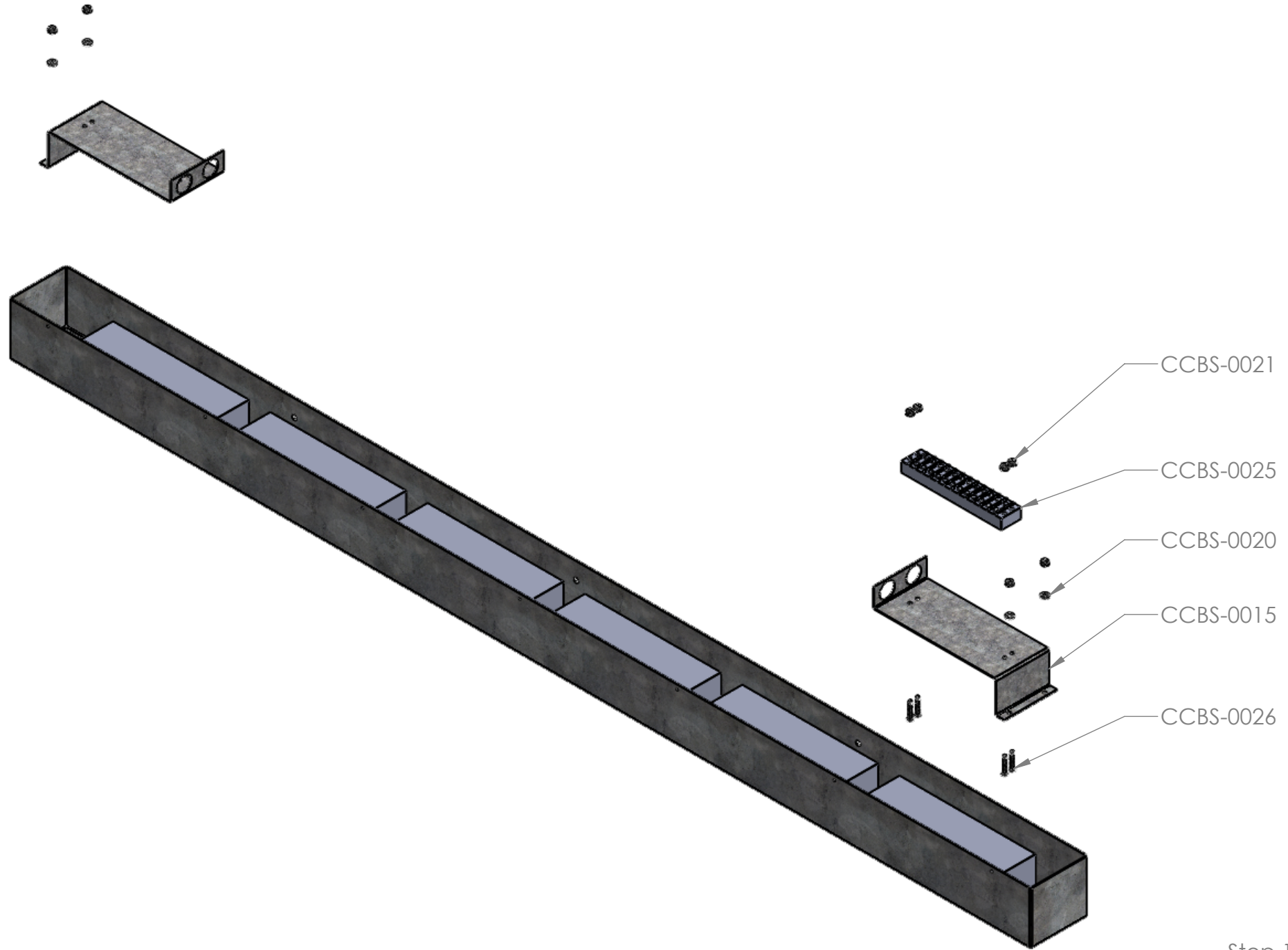
Secure the Drivers to CCBS-0013 using  
 CCBS-0020, CCBS-0021, and CCBS-0024  
 to Fasten

Power Assembly Step 1  
 Securing Drivers to Base

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Step 1: Fasten CCBS-0025 to CCBS-0015 using CCBS-0026 and CCBS-0021

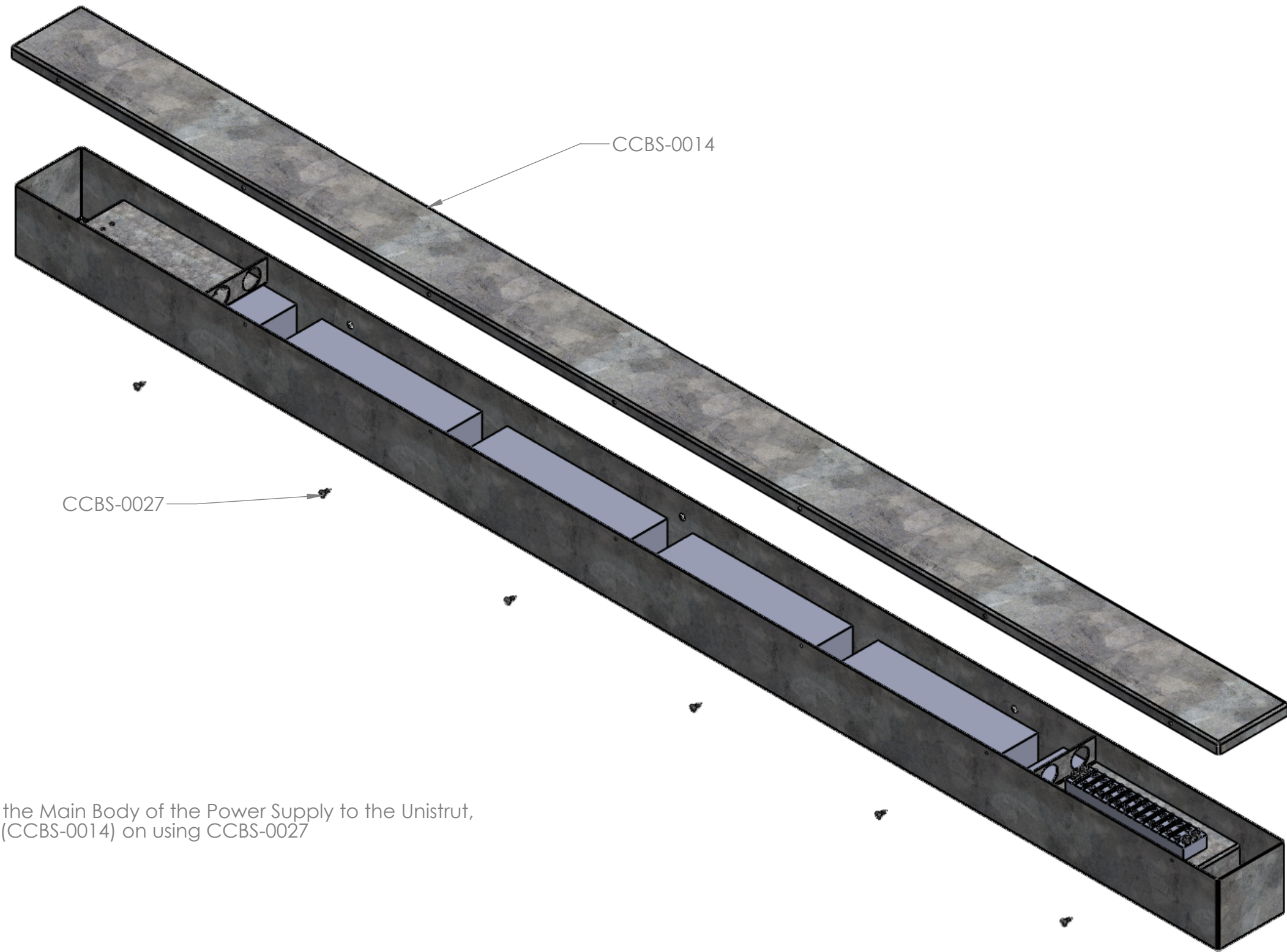
Step 2: Connect CCBS-0015 to the main assembly using the PEMS built in, and Fasten with CCBS-0020 and CCBS-0021

Power ASM Step 2  
Securing Terminal Block

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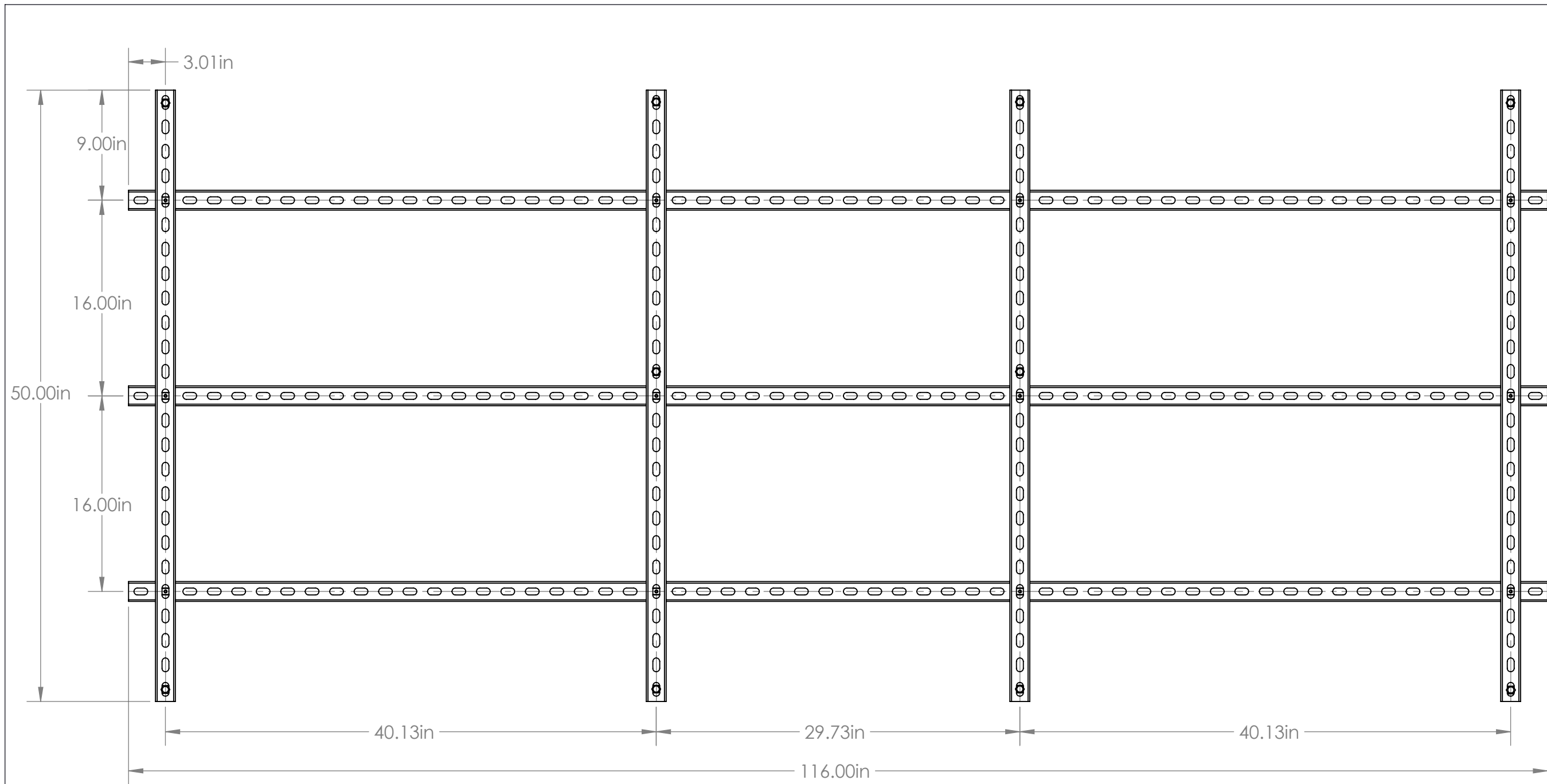
After Securing the Main Body of the Power Supply to the Unistrut,  
Fasten the Lid (CCBS-0014) on using CCBS-0027

**Step 3**  
Place Lid onto Power Supply

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Scale: 1:12



PART NUMBER	QTY.
CCBS-0006	3
CCBS-0007	4
CCBS-0018	12
CCBS-0022	12
CCBS-0023	12

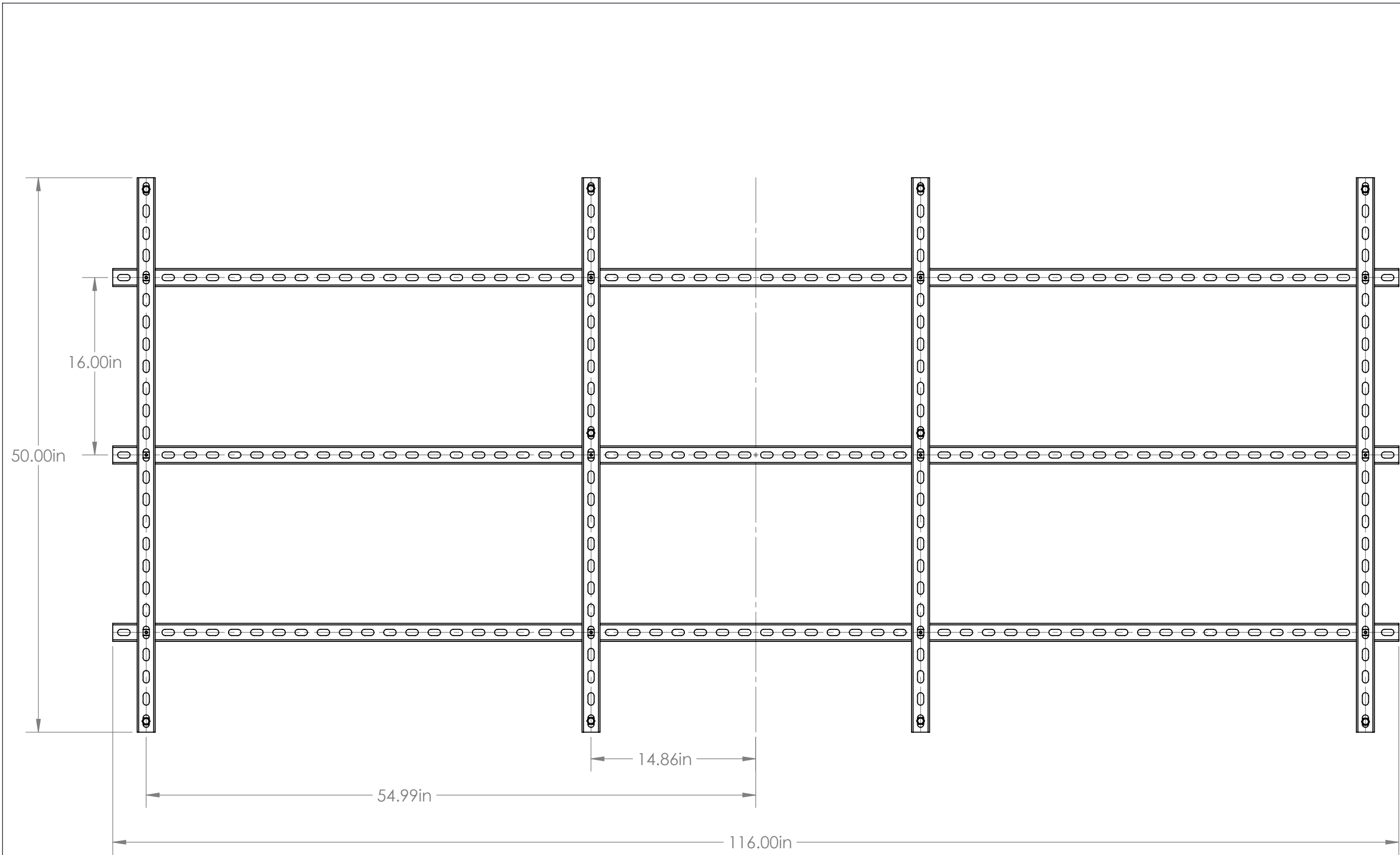
Date: 1/13/2016  
 By: TH  
 Units: Inches  
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Unistrut Construction

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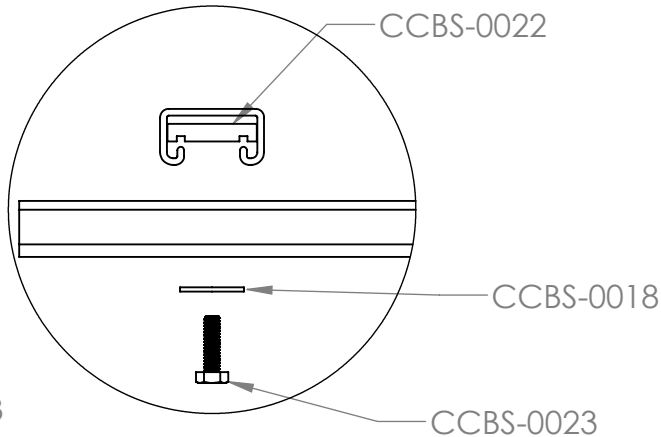
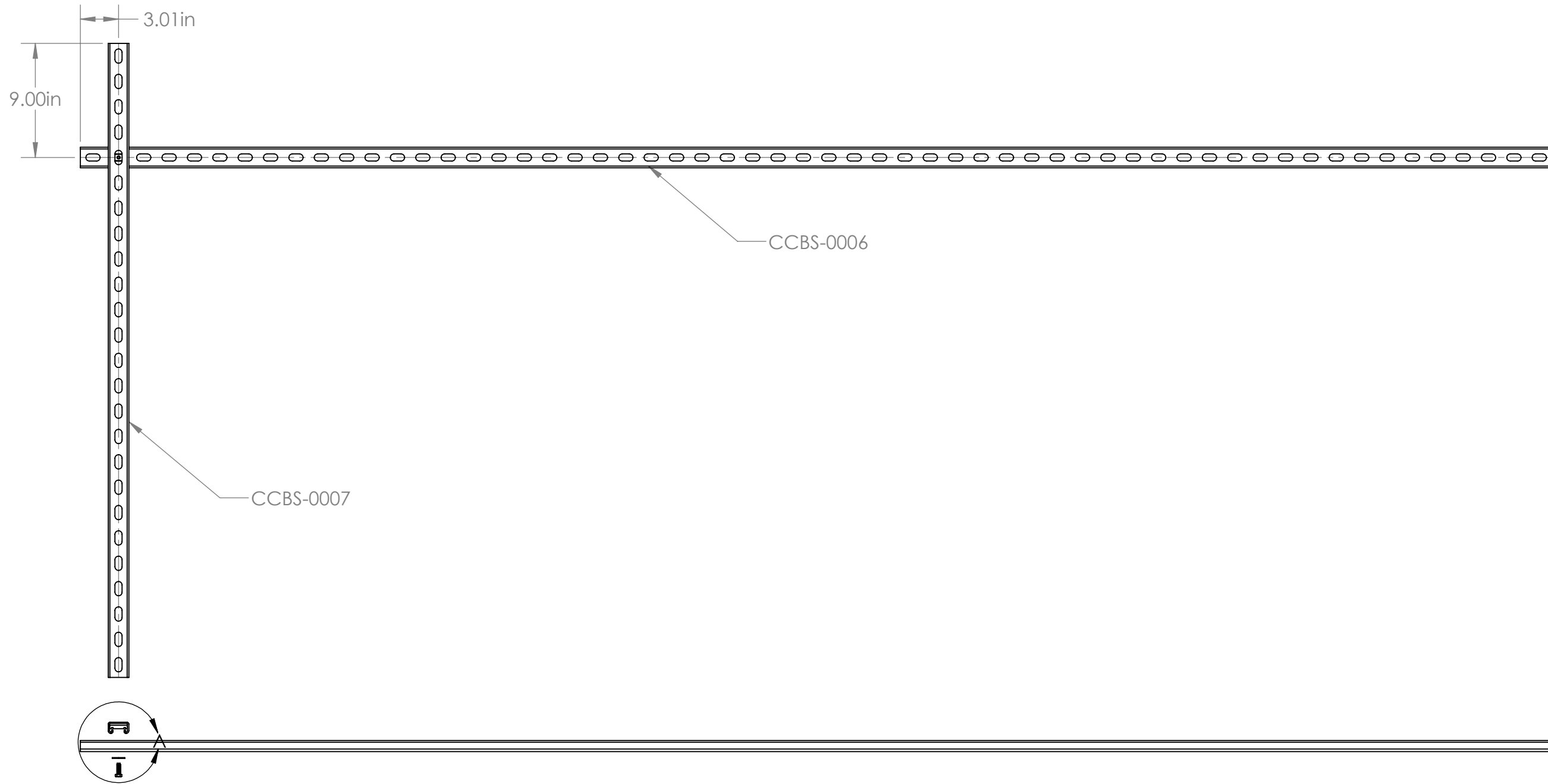
Date: 1/13/2016  
 By: TH  
 Units: Inches  
 Rev. 1  
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Unistrut Construction  
 Measurements off center

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Using the Drawing Above, Align Unistrut CCBS-0006 and CCBS-0007 and Fasten with CCBS-0022 Inside of CCBS-0007 and CCBS-0018, CCBS-0023 Inside of CCBS-0006

DETAIL A  
SCALE 1 : 3

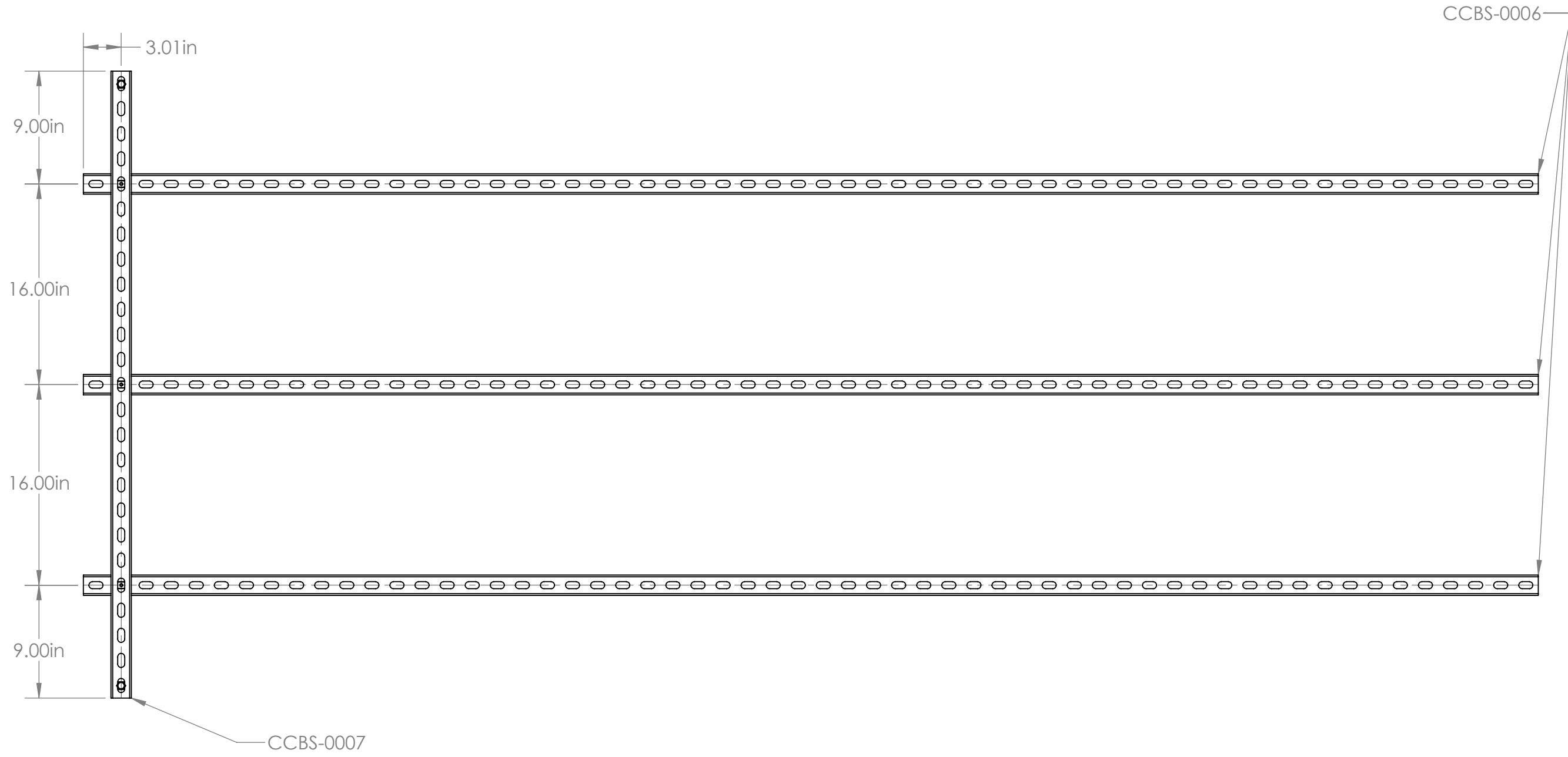
Unistrut Step 1

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Align and Fasten the Two Remaining CCBS-0006 to CCBS-0007  
Using CCBS-0018, CCBS-0022, and CCBS-0023

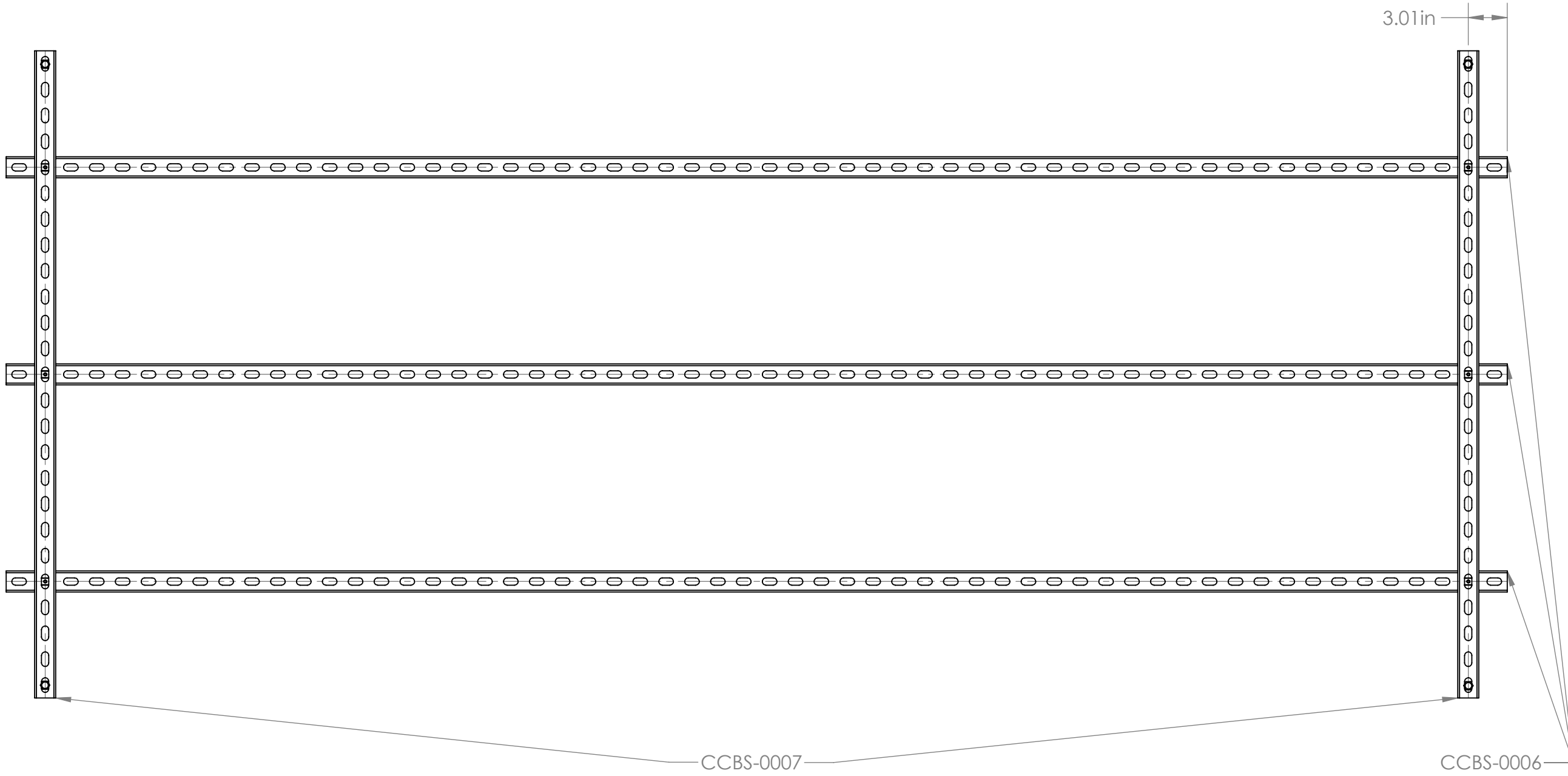
Unistrut Step 2

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Based on Drawing Above, Align and Fasten the Second CCBS-0007 to the Three CCBS-006  
Using CCBS-0018, CCBS-0022, and CCBS-0023

Unistrut Step 3

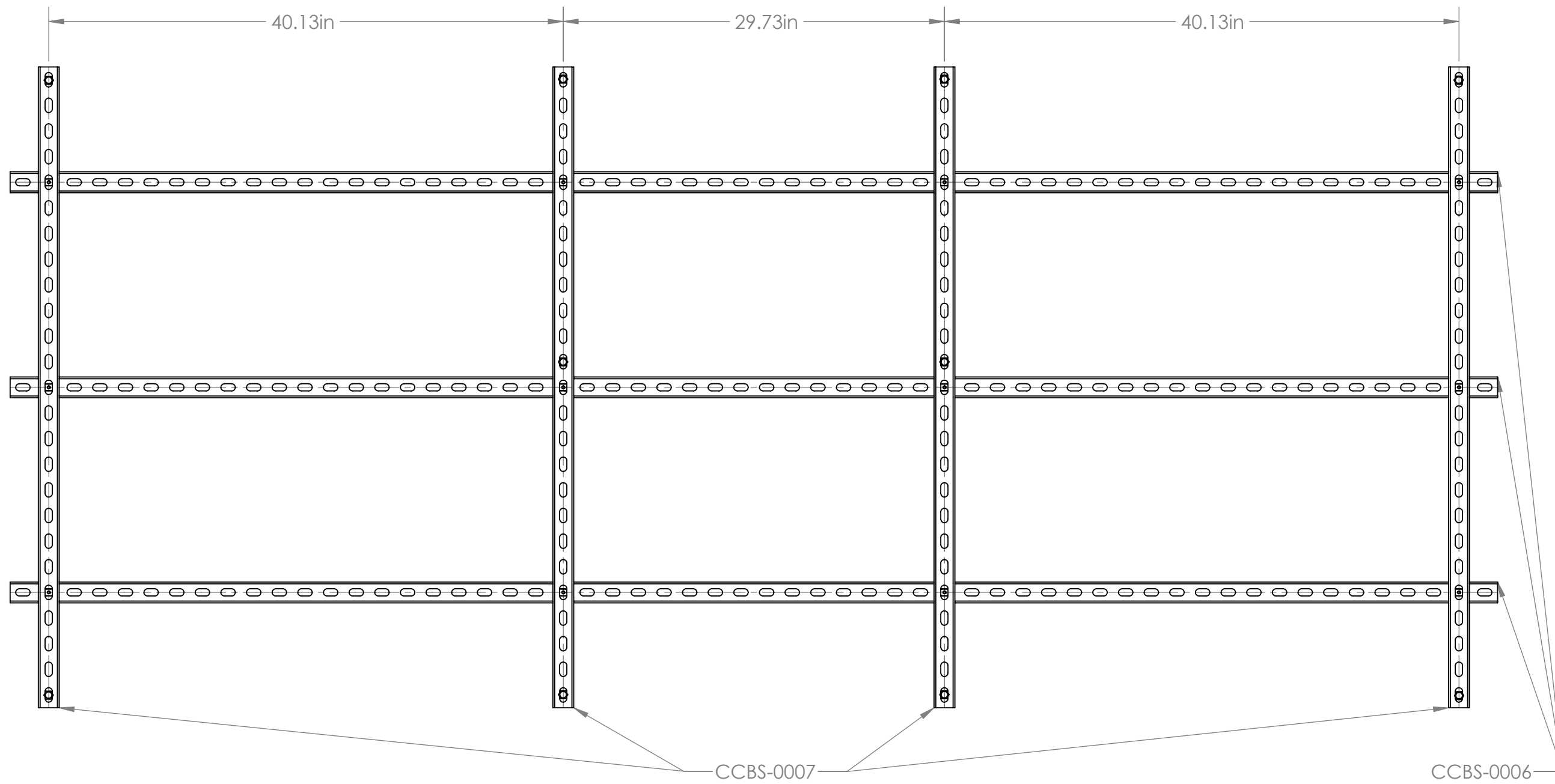
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Based on Drawing Above, Align and Fasten the Remaining CCBS-0007 to the Three CCBS-0006  
Using CCBS-0018, CCBS-0022, and CCBS-0023

Unistrut Step 4

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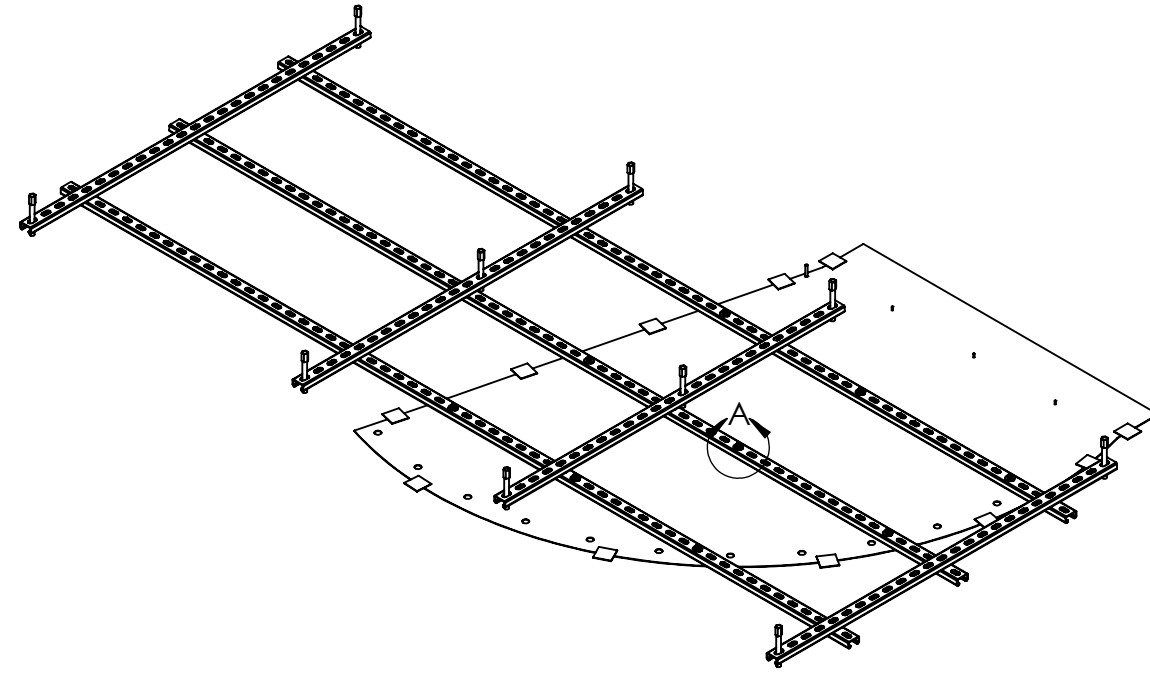
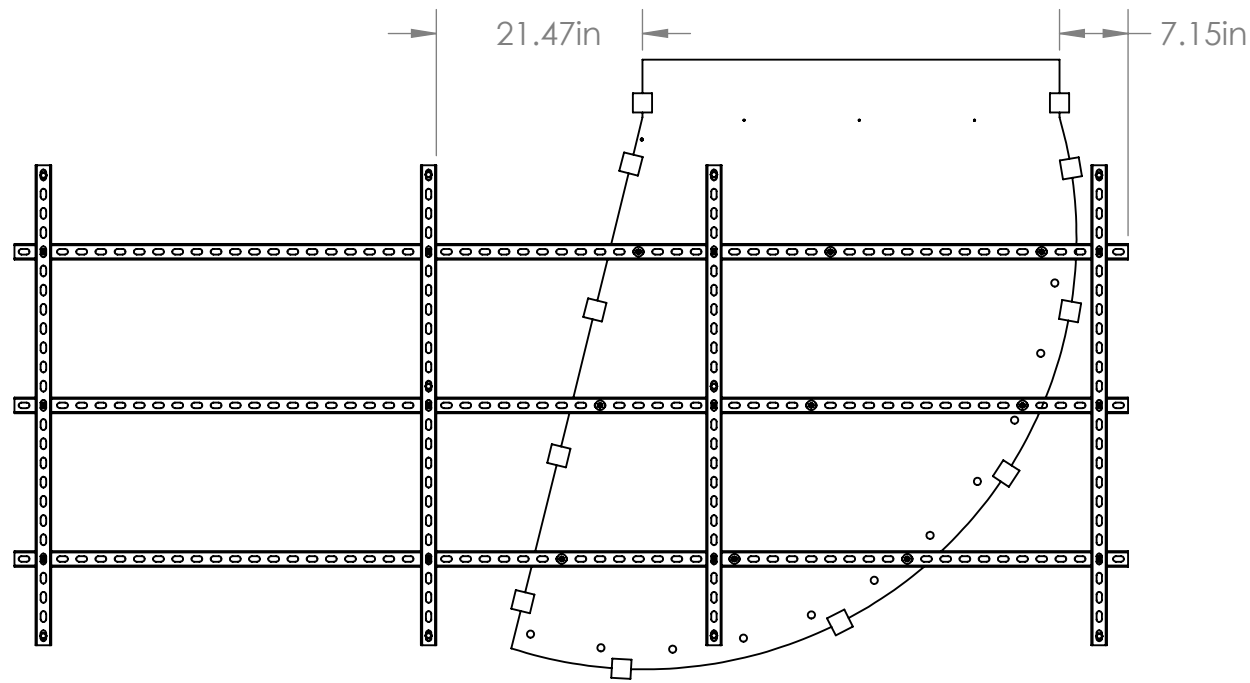
By: TH

Units: Inches

Rev. 1

Sheet: 6 of 6

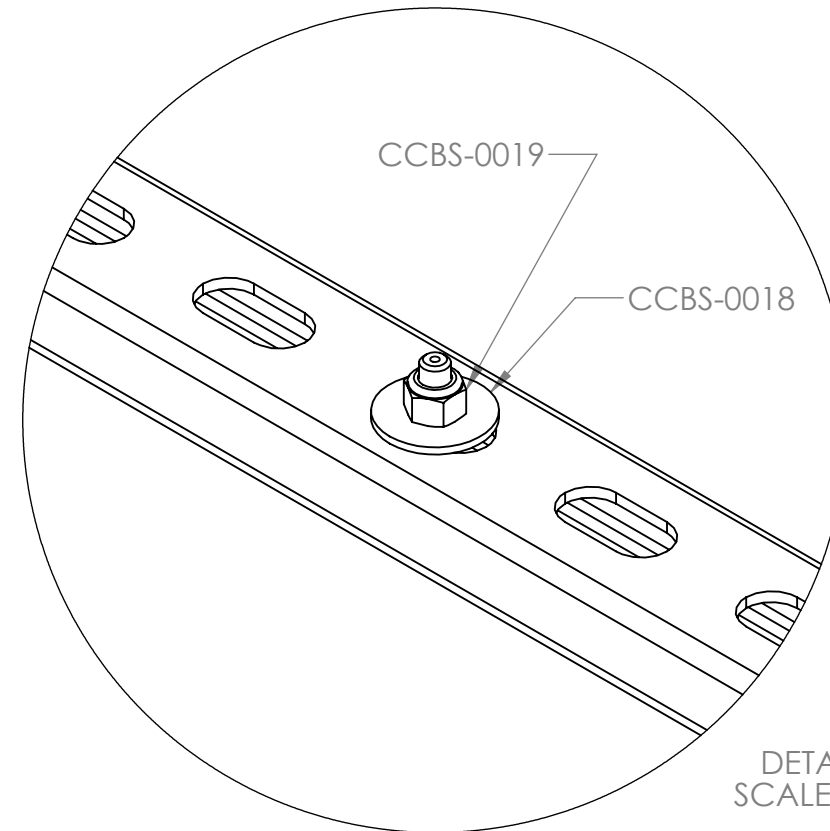
Scale: 1:24



**CEILING MOUNTING TBD**



Using the 1/4-20 PEMS on CCBS-0001, Based on the Drawing Above, Align the Cover on the Unistrut and Fasten Using CCBS-0018 and CCBS-0019



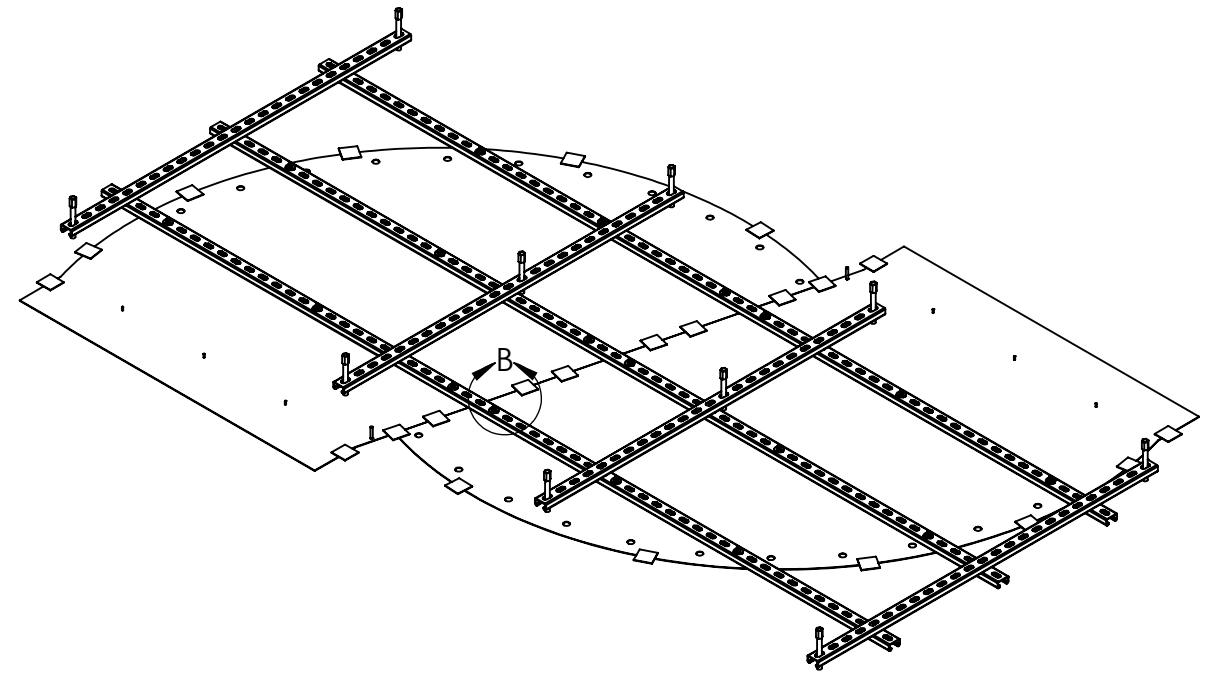
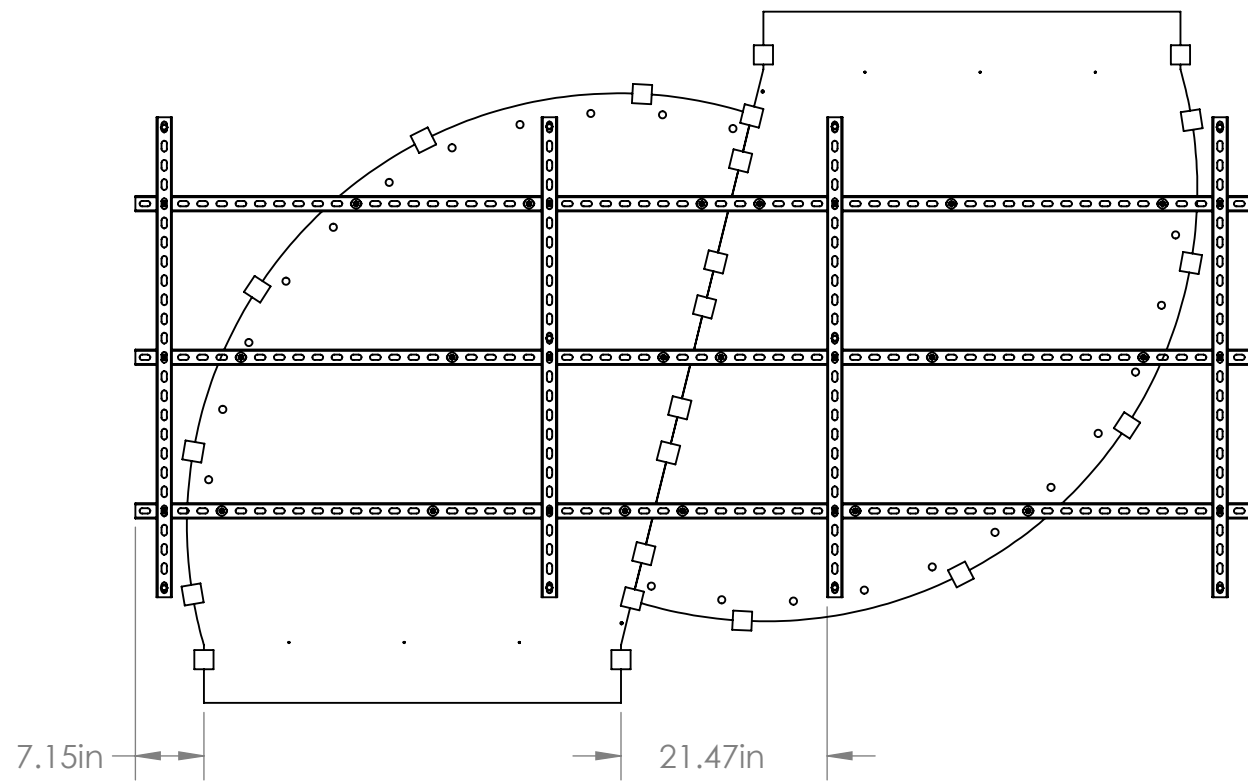
DETAIL A  
SCALE 1 : 1.5

**Step 1  
Add First Center Cover to Unistrut**

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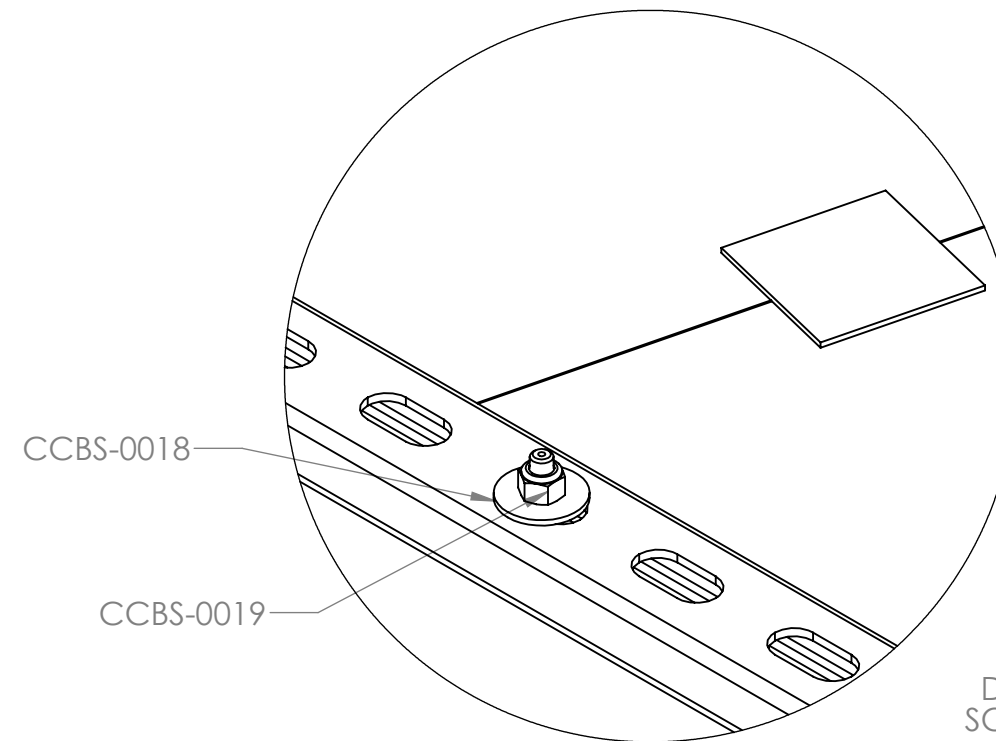
Date: 1/13/2016  
By: TH  
Units: Inches  
Rev. 1  
Sheet: 1 of 6  
Scale: 1:48



**CEILING MOUNTING TBD**



Using the Drawing Above, Align the Second Cover to the Unistrut and Fasten Using CCBS-0018 and CCBS-0019.



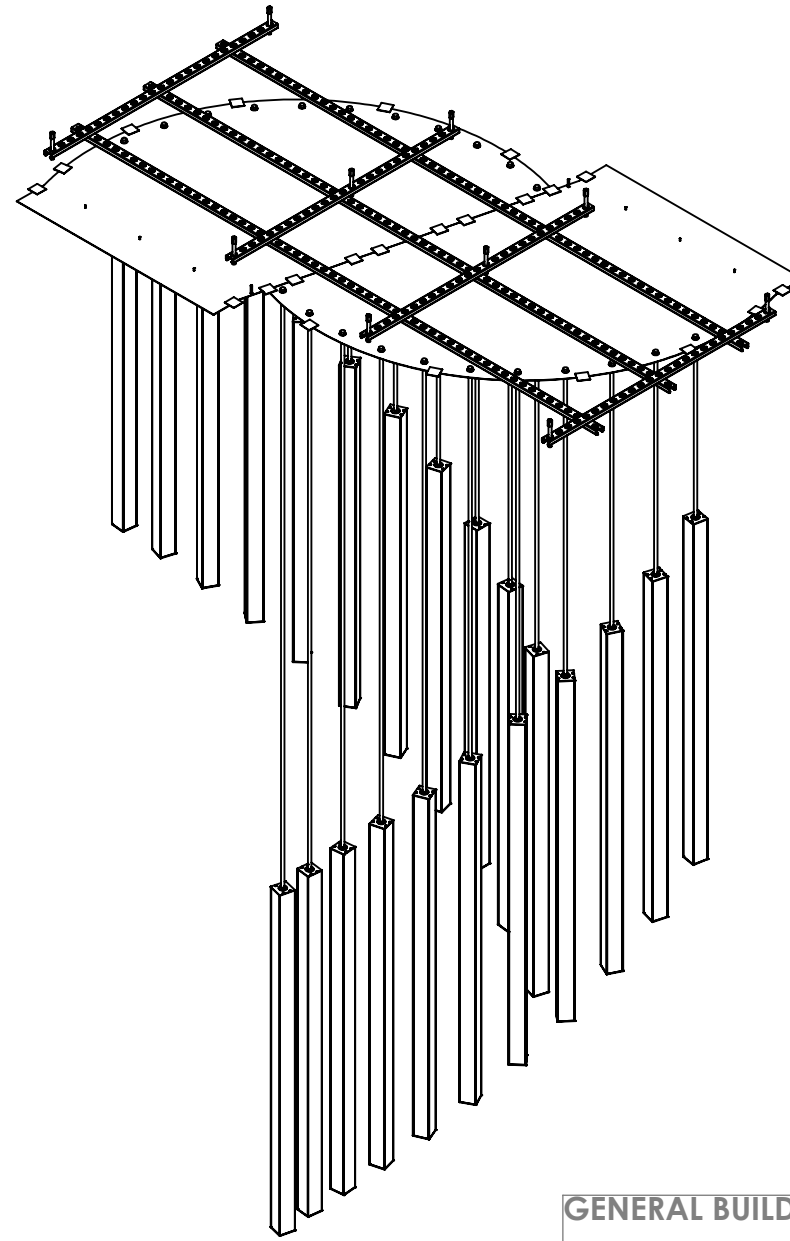
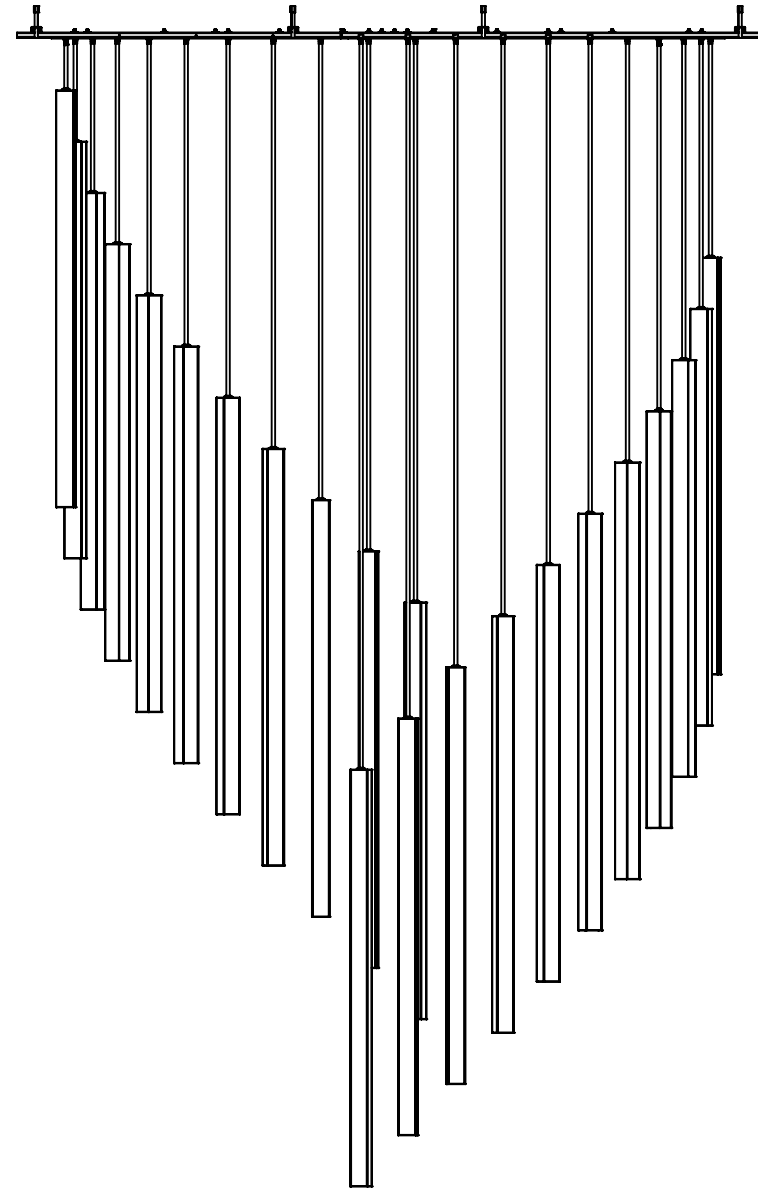
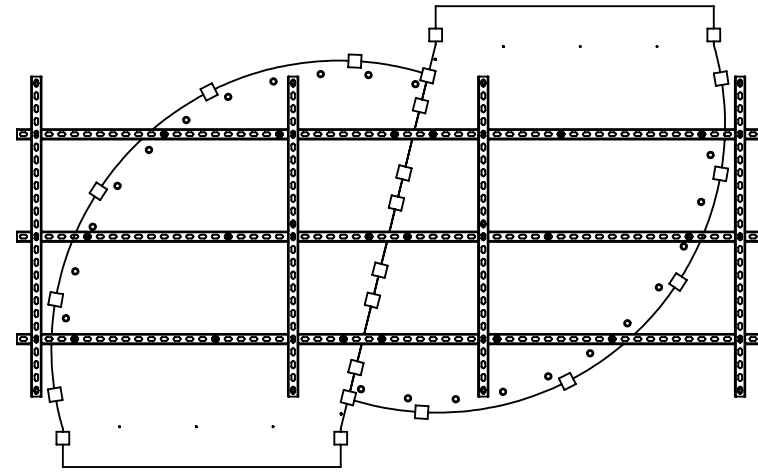
DETAIL B  
SCALE 1 : 2

**Step 2  
Add Second Center Cover to Unistrut**

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By: TH  
Units: Inches  
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Sheet: 2 of 6  
Scale: 1:48



**GENERAL BUILD NOTES:**

1. Material: Per Part Drawing
2. Installation Provided By Others

**APPROVAL:**

APPROVED

APPROVED AS NOTED

SIGNED

PRINT NAME

DATE

**NOTES:**

**Step 3  
Add Channel Fixtures to  
Center Covers**

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Date: 1/13/2016

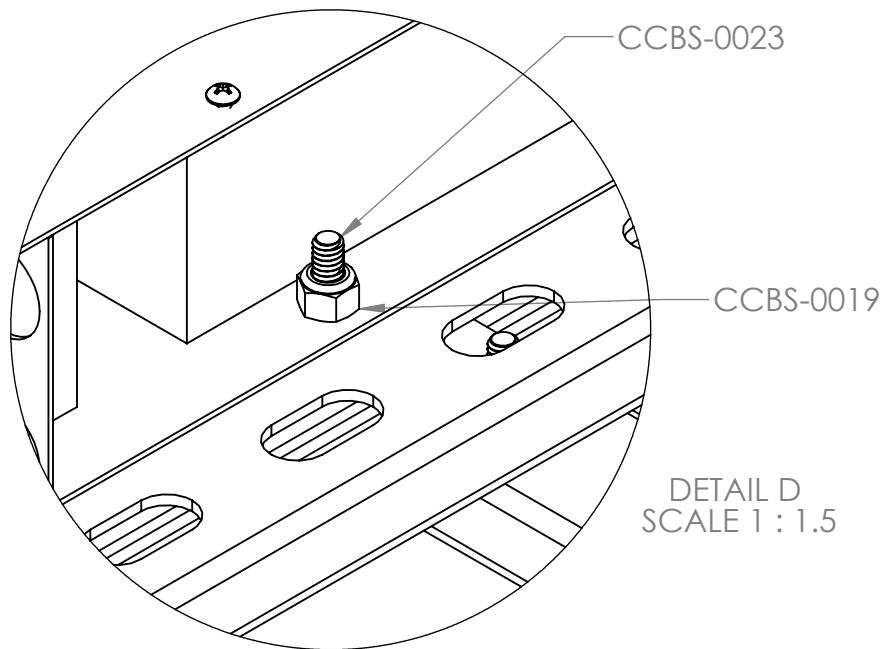
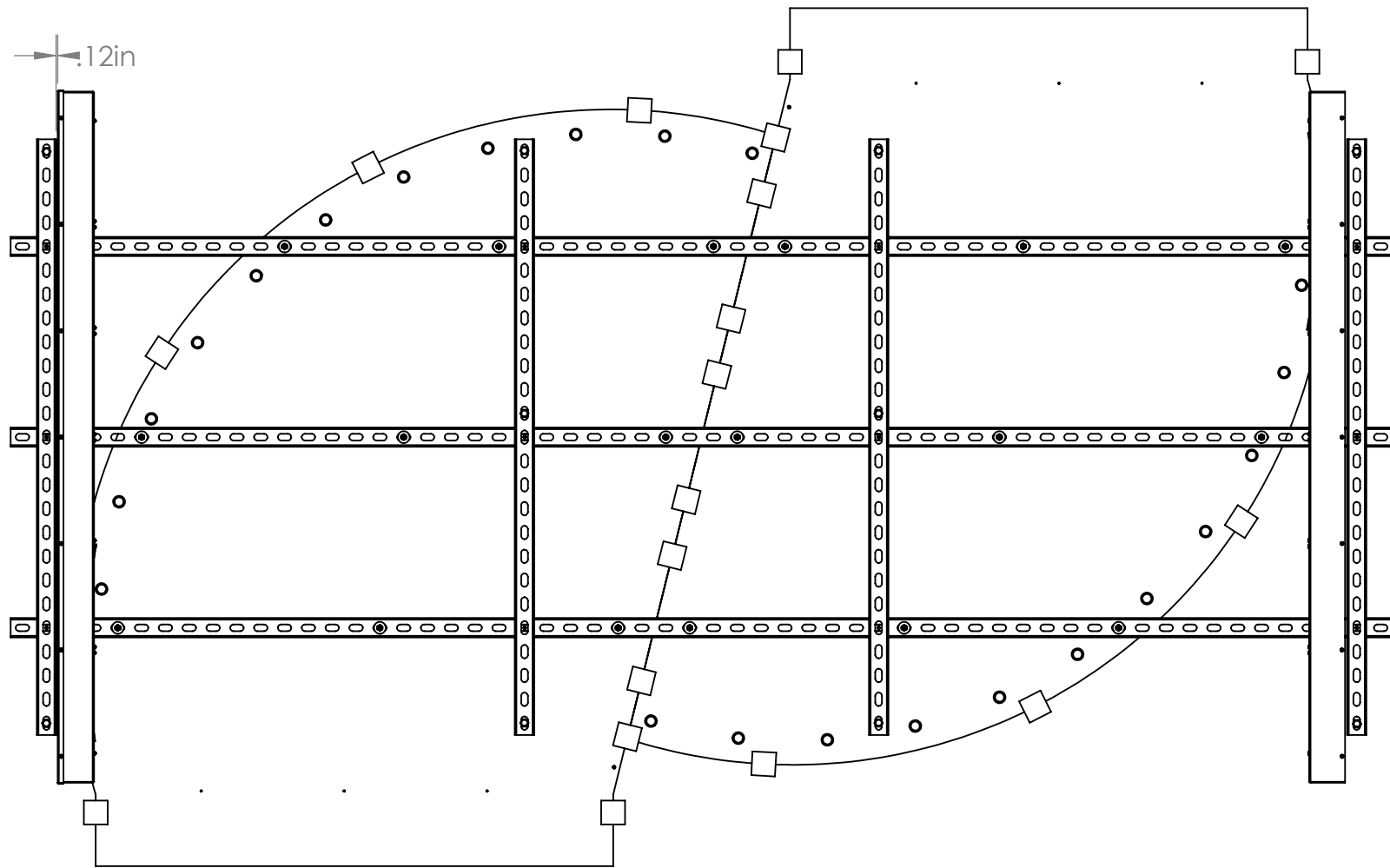
By: TH

Units: Inches

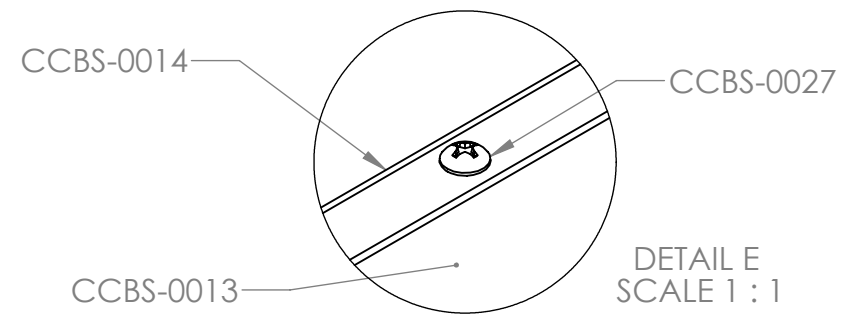
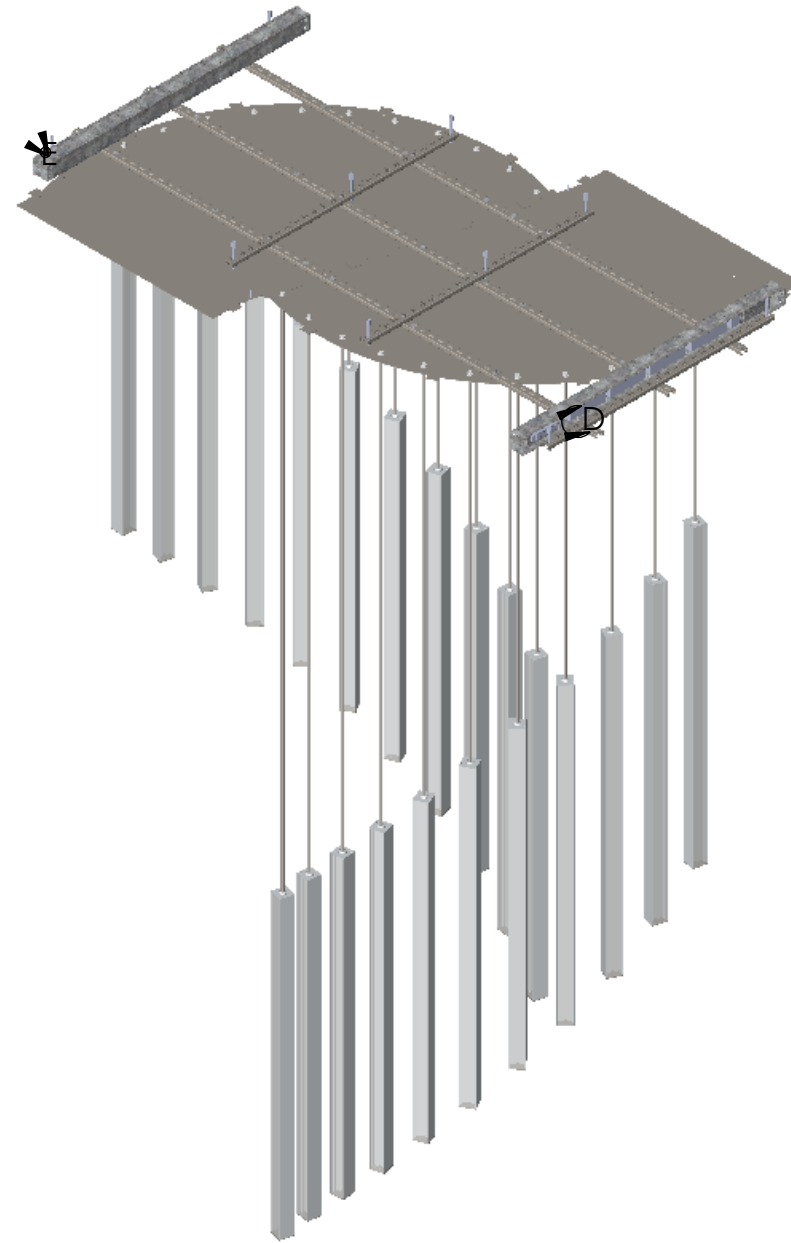
Rev. 1

Sheet: 3 of 6

Scale: 1:48



Align the Power Supply Along the Unistrut Based off the Drawing Above with Open End Facing the Unistrut. Fasten Using CCBS-0018, CCBS-0019 and CCBS-0023. (CCBS-0018 is on Underside of Unistrut.)



Place Lid of Power Supply (CCBS-0014) Over Open End of the Power Supply and Fasten Using CCBS-0027.

**Step 4**  
Add Power Supplies to Unistrut

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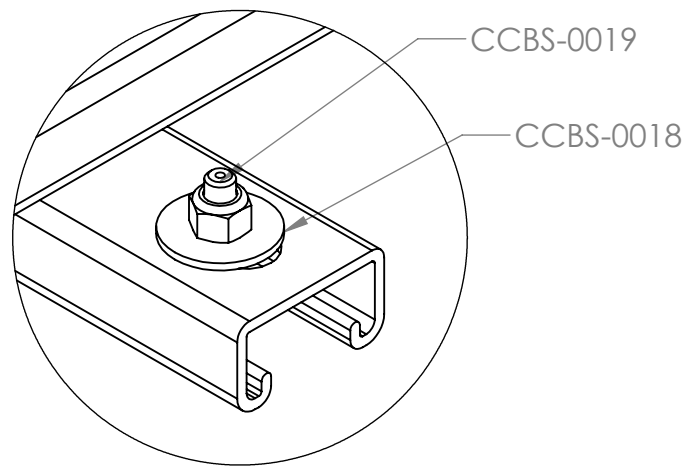
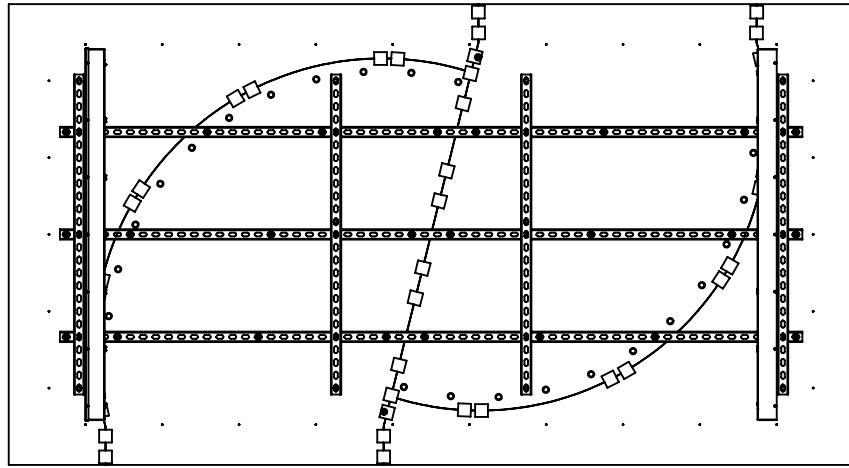
By: TH

Units: Inches

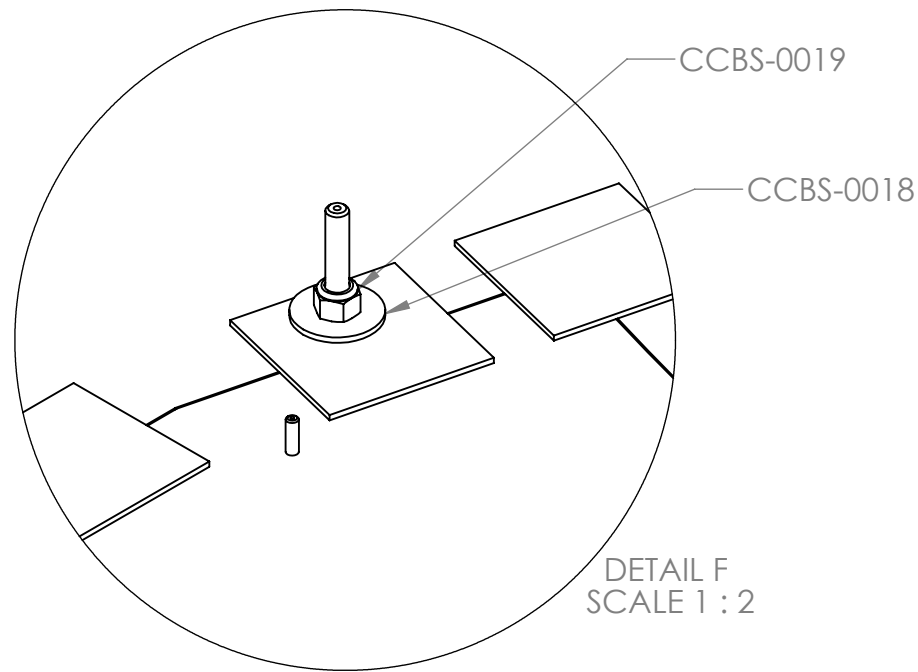
Rev. 1

Sheet: 4 of 6

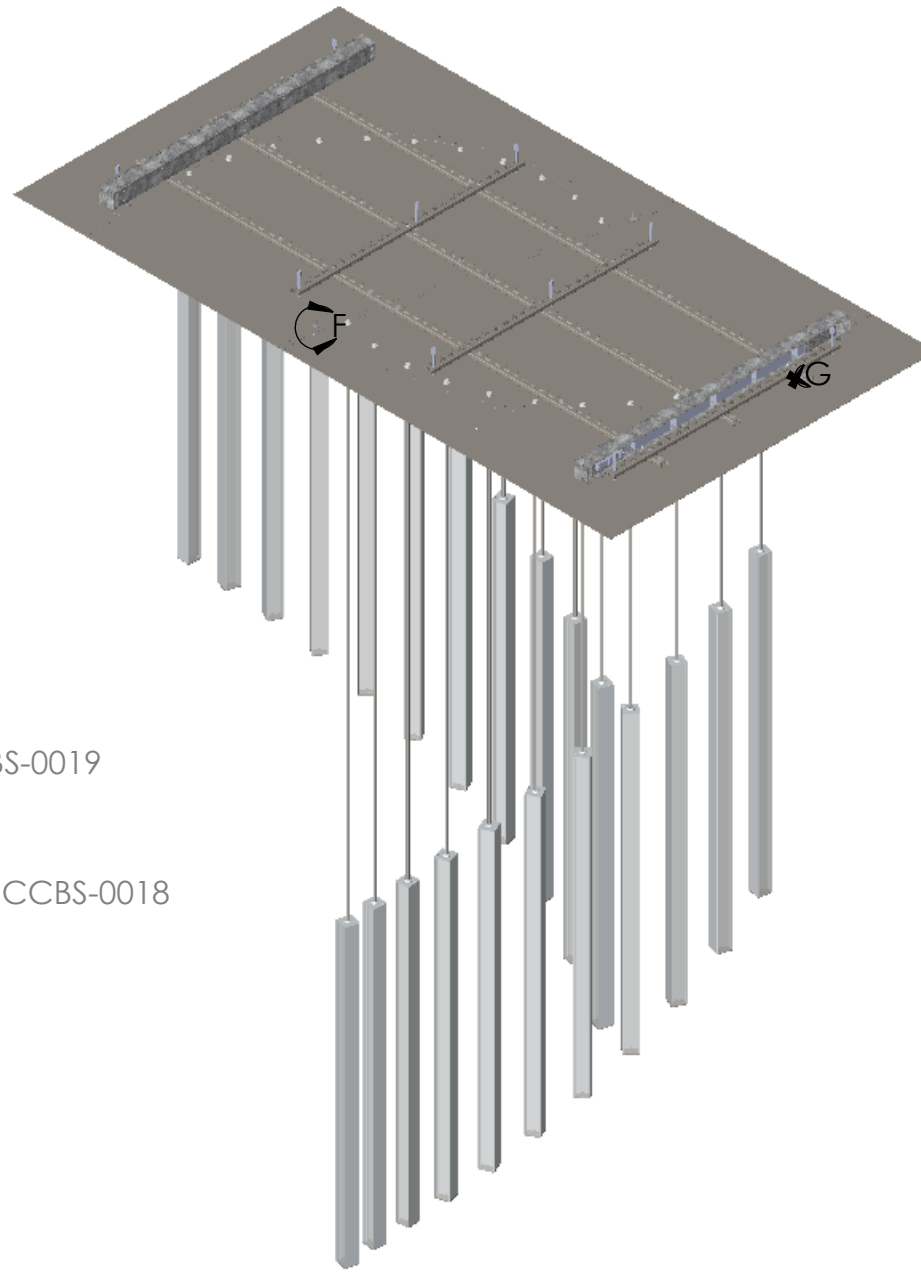
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DETAIL G  
SCALE 1 : 1.5



DETAIL F  
SCALE 1 : 2



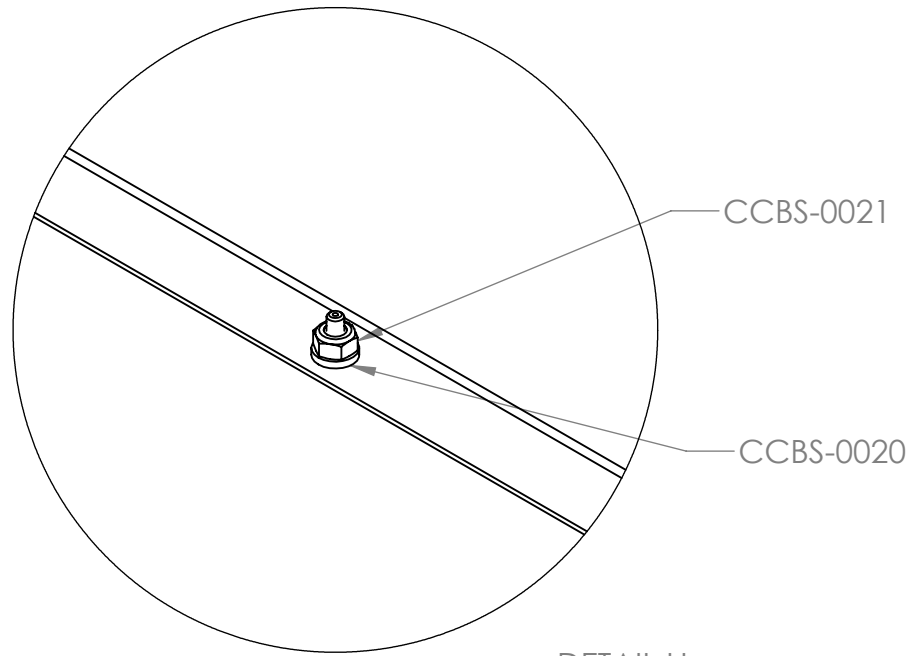
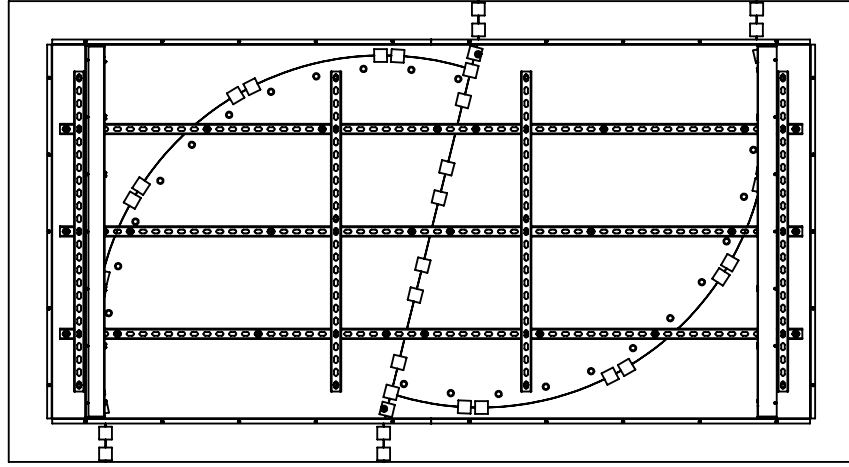
Align CCBS-0002 onto the Fixture, Making Sure the Tabs Over Lap.  
Fasten to Unistrut Using CCBS-0018 and CCBS-0019

Step 5  
Add Plate Covers to Fixture

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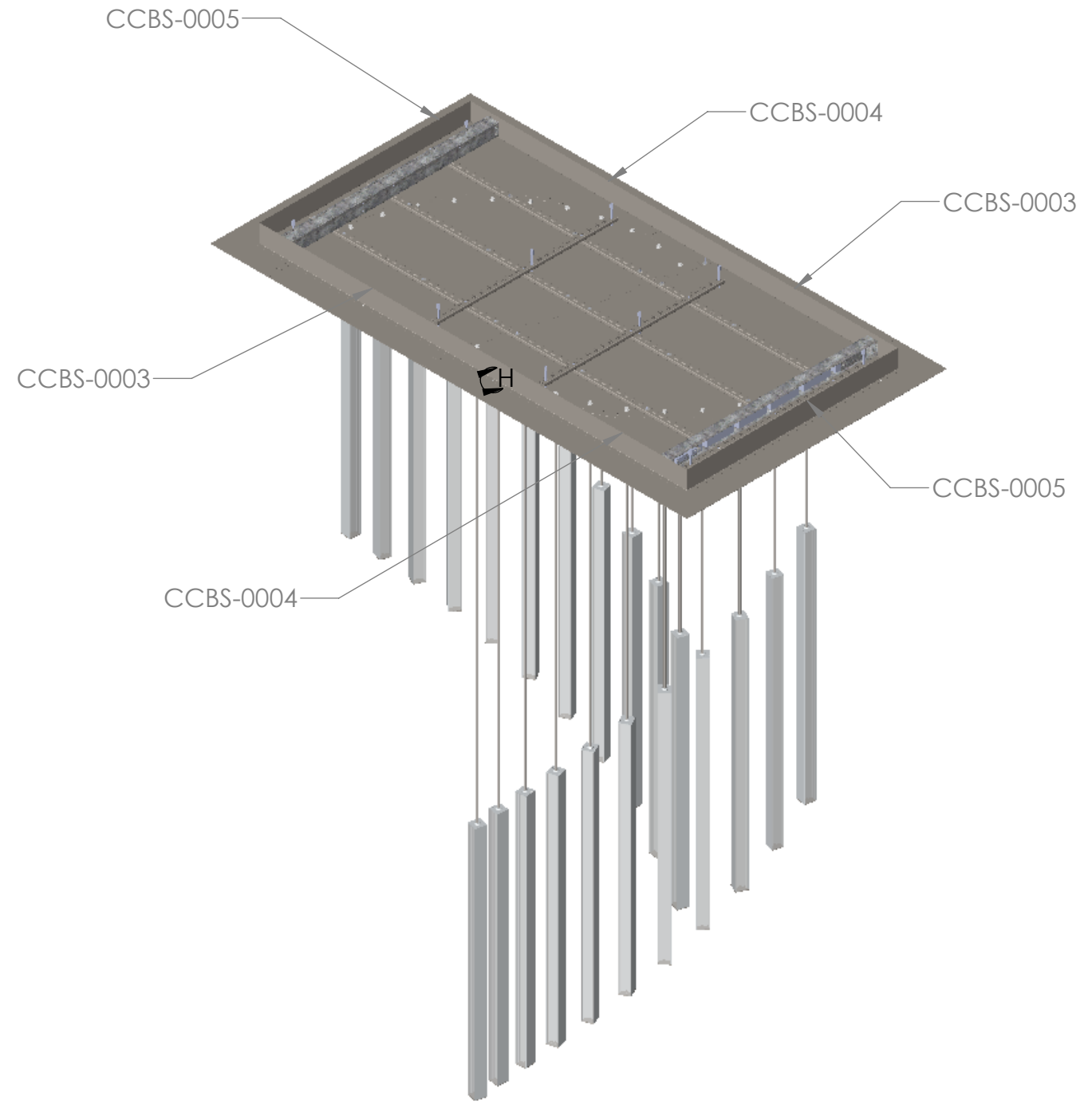


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Units: Inches  
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DETAIL H  
SCALE 1 : 1.5

Using the PEMs on CCBS-0001 and CCBS-0002, Align  
CCBS-0003, CCBS-0004, and CCBS-0005 and Fasten  
Using CCBS-0020 and CCBS-0021



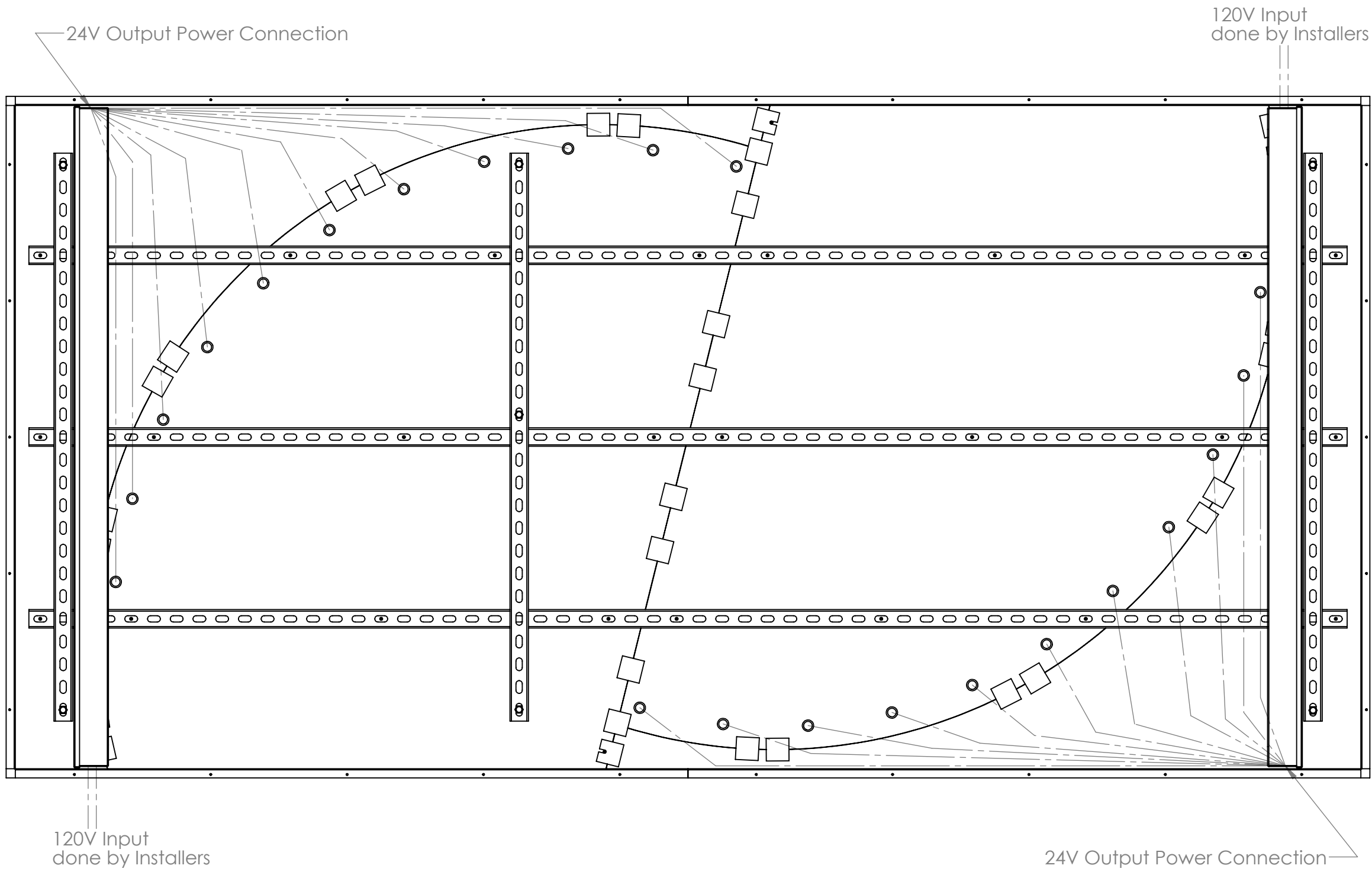
Step 6  
Add Side Covers to Top of Fixture

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Master  
Wiring Layout

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