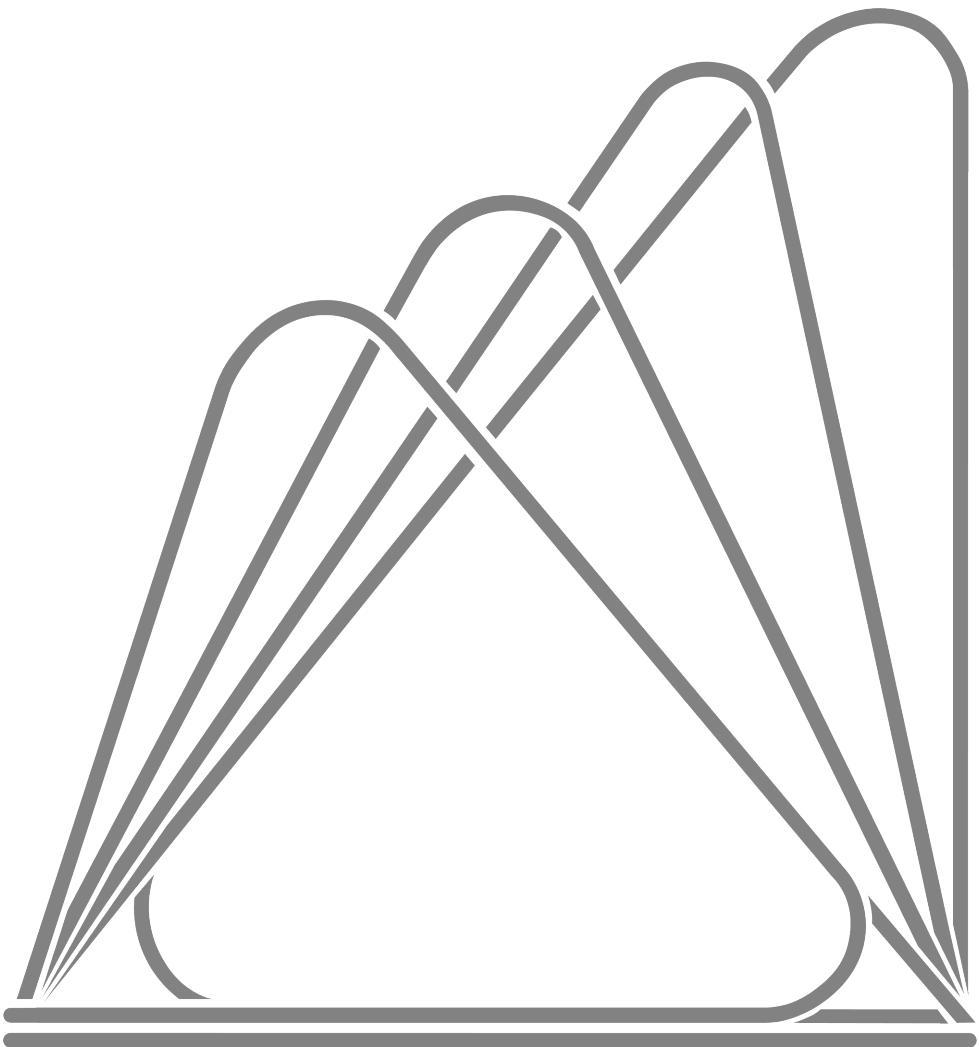


Contents



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- S1 Plan
- S2 Northeast Section
- S3 Southwest Elevation
- S4 Northwest Elevation
- S5 Planting Diagram
- S6 Sun Diagram
- S7 Opening Mechanism Detail
- S8 Schedule
- S9 Budget and Materials List
- S10 Studio Setup
- S11 Structure Components
- S12 Panel Components
- S13 Conduit Measurement
- S14 Connection Components
- S15 Cut Sheets
- S16 Internal Bracing
- S17 Joints Detail
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- S19 Stakes Detail
- S20 Handle Detail
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- S22 Transportation

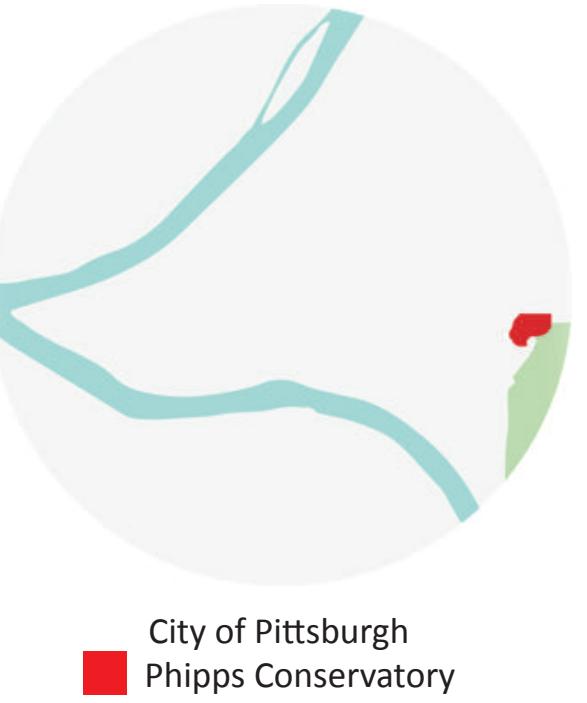
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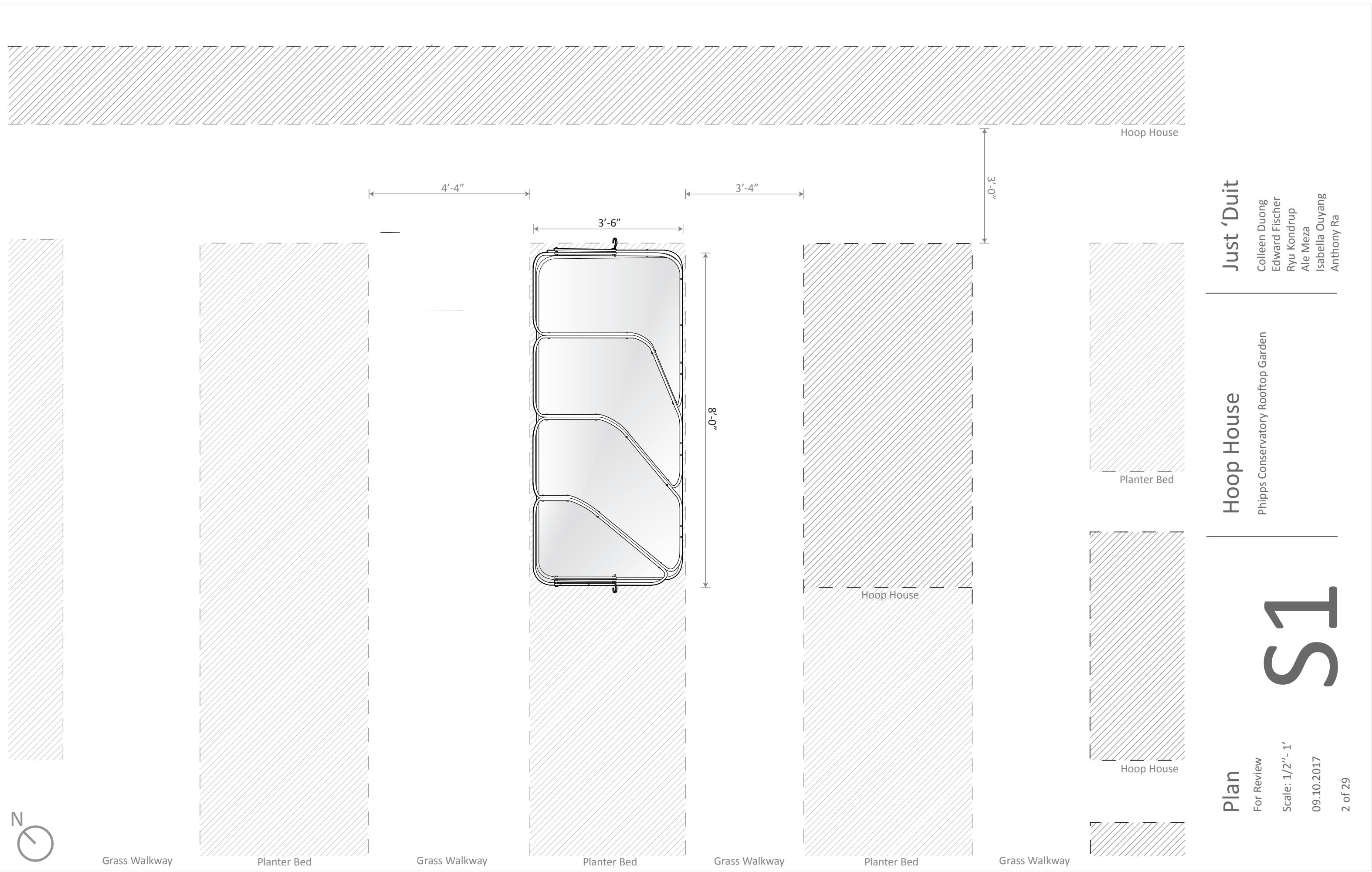
Hoop House
Phipps Conservatory Rooftop Garden

SO

Site Plan
For Review
Scale: 1/2" - 1'
09.10.2017
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Proposed Hoop House





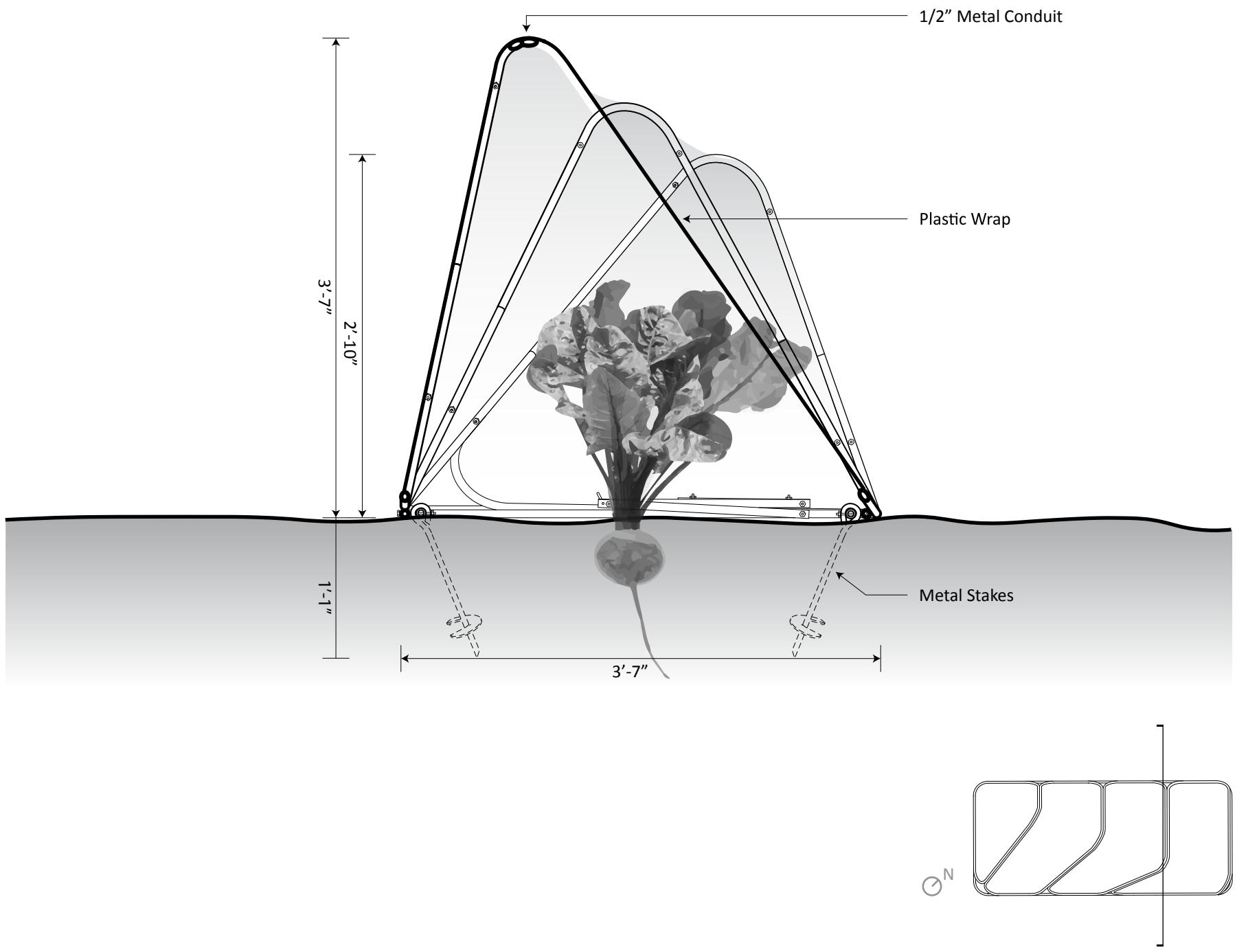
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S2

For Review
Scale: 1"- 1'
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Section - Northeast



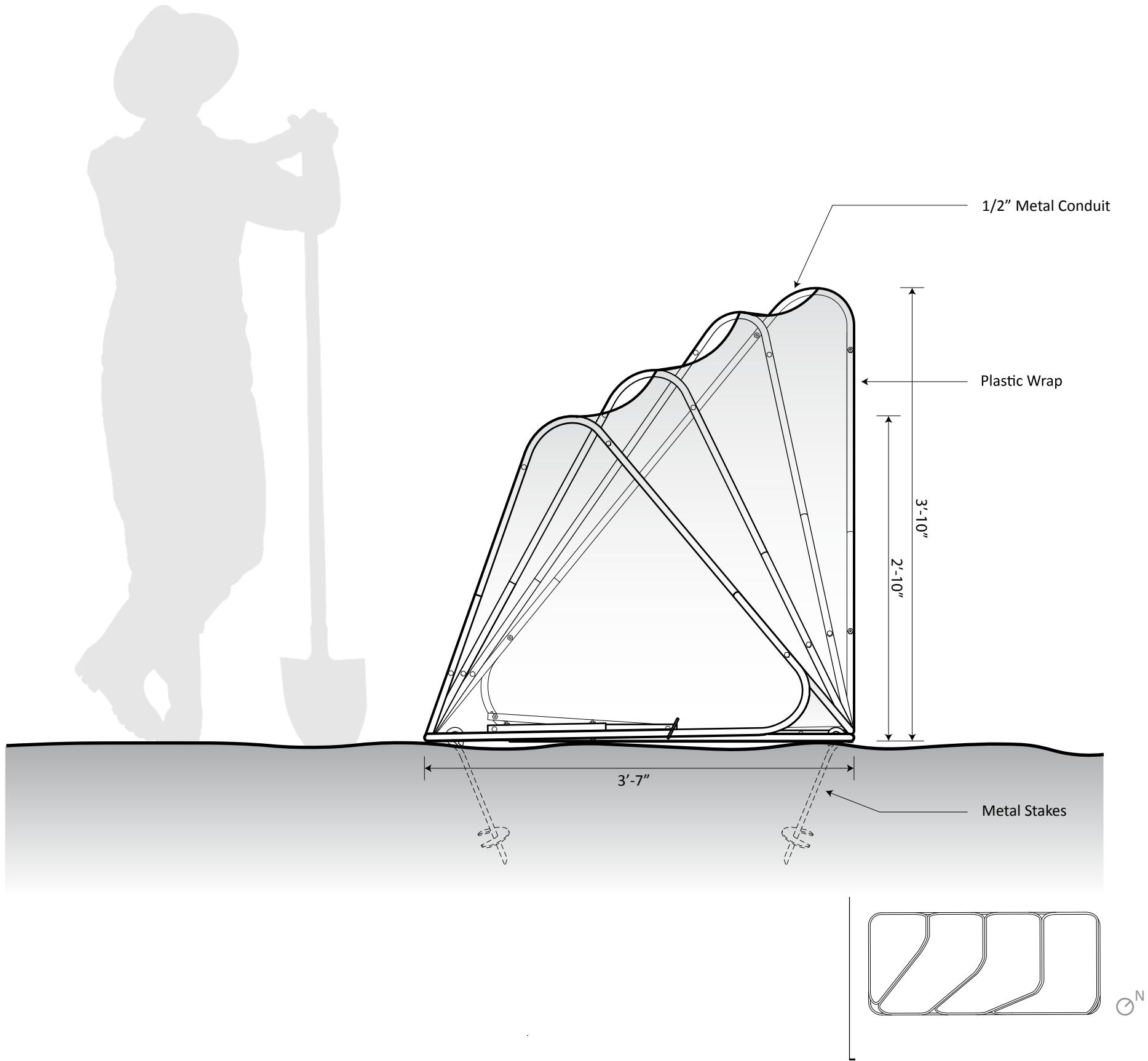
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S3

Elevation - Southwest

For Review
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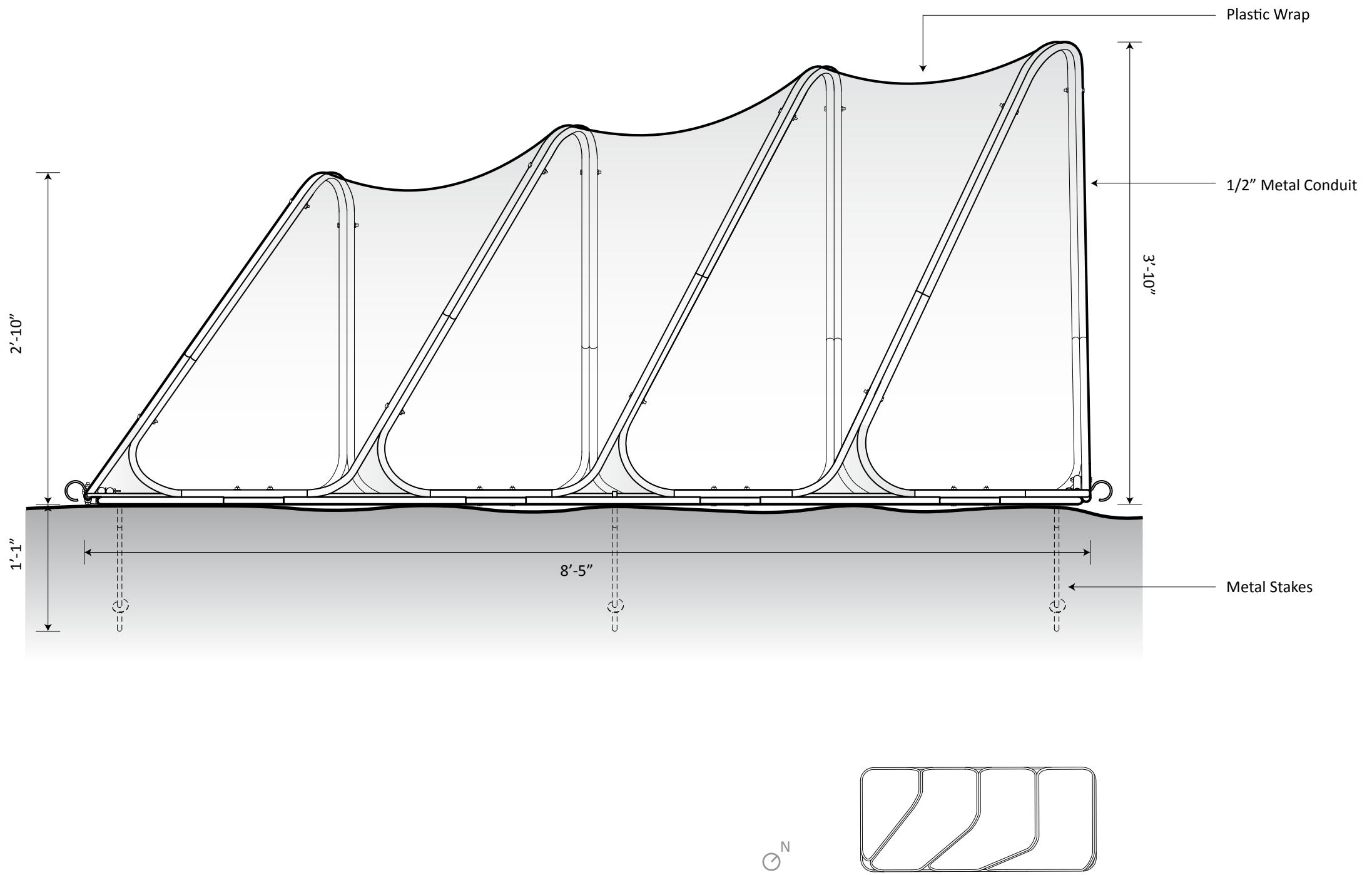


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Elevation - Northwest
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For Review
Scale: 1"- 1'
09.10.2017
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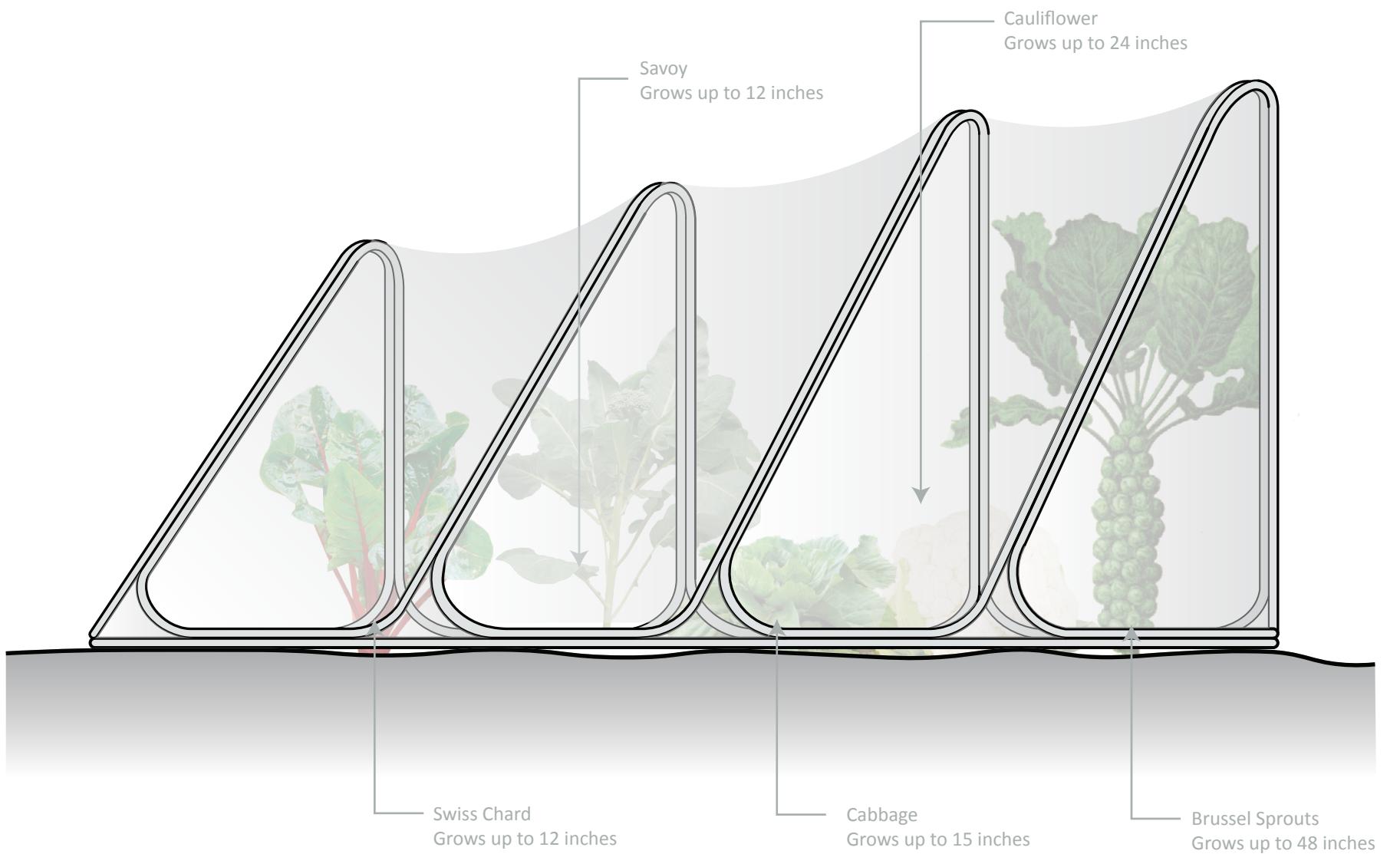
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For Review
Scale: 1"- 1'
09.10.2017
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S5

Planting Diagram



S6

Sun Angles Diagram

For Review

Scale: 1" - 1'

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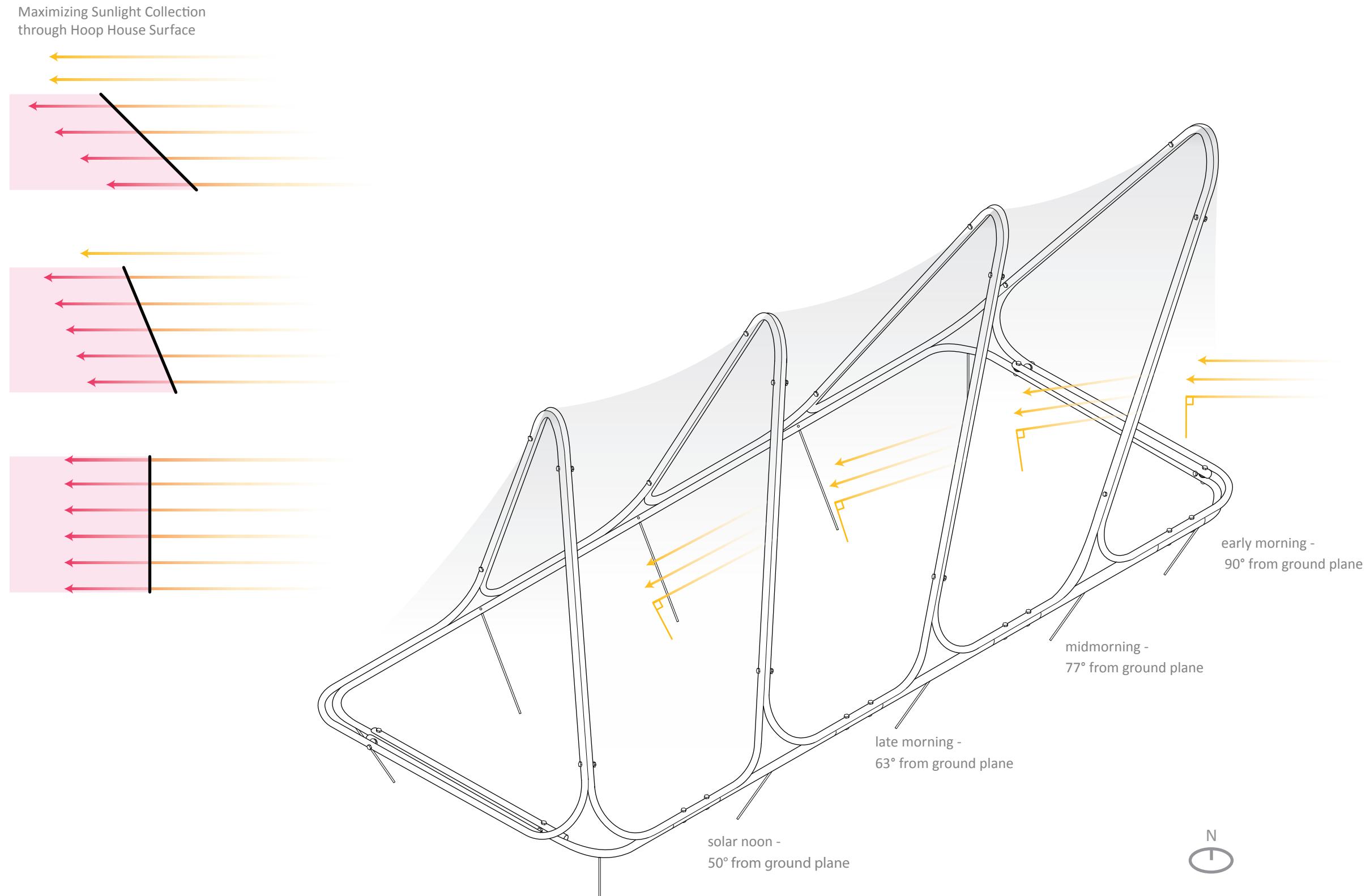
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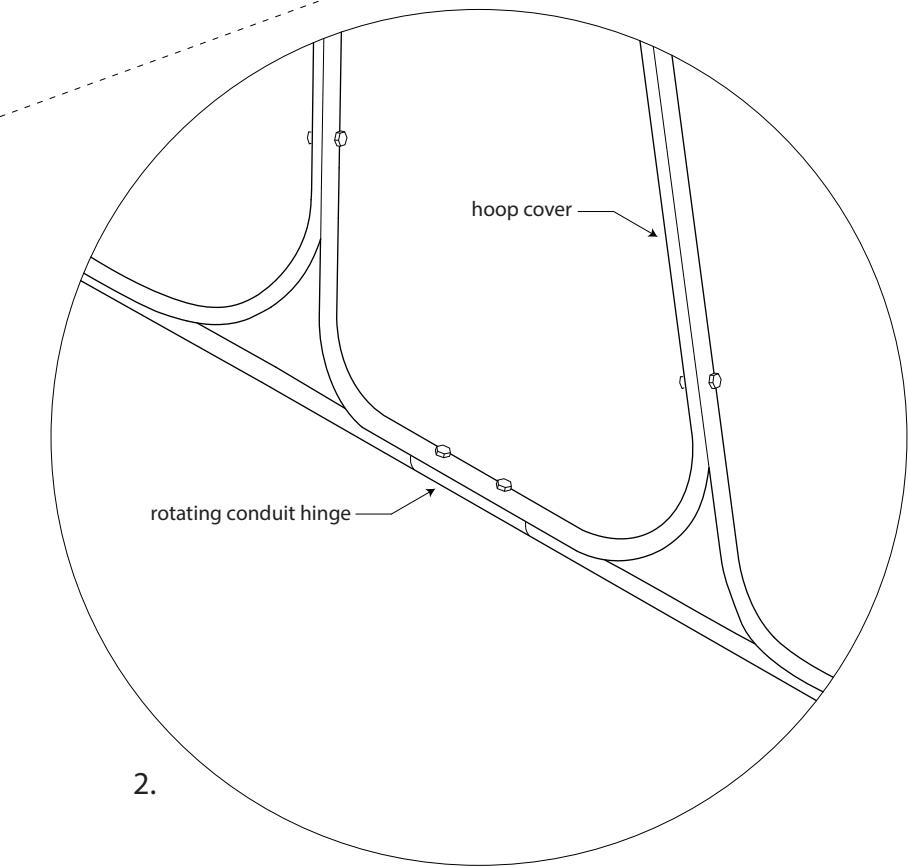
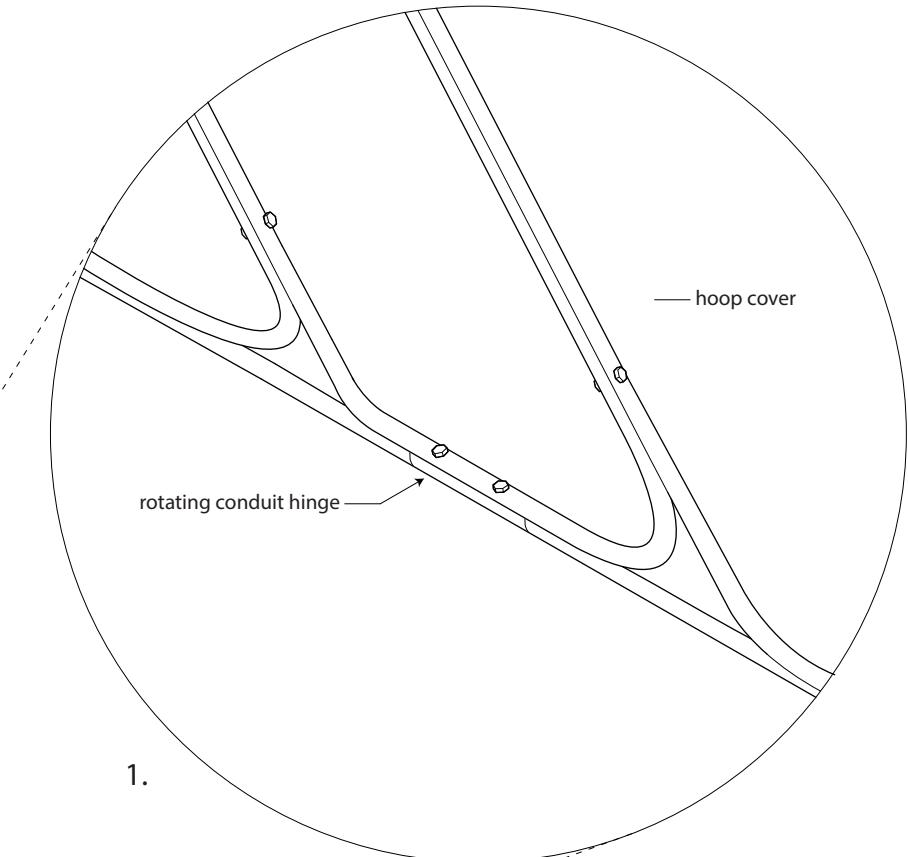
Hoop House

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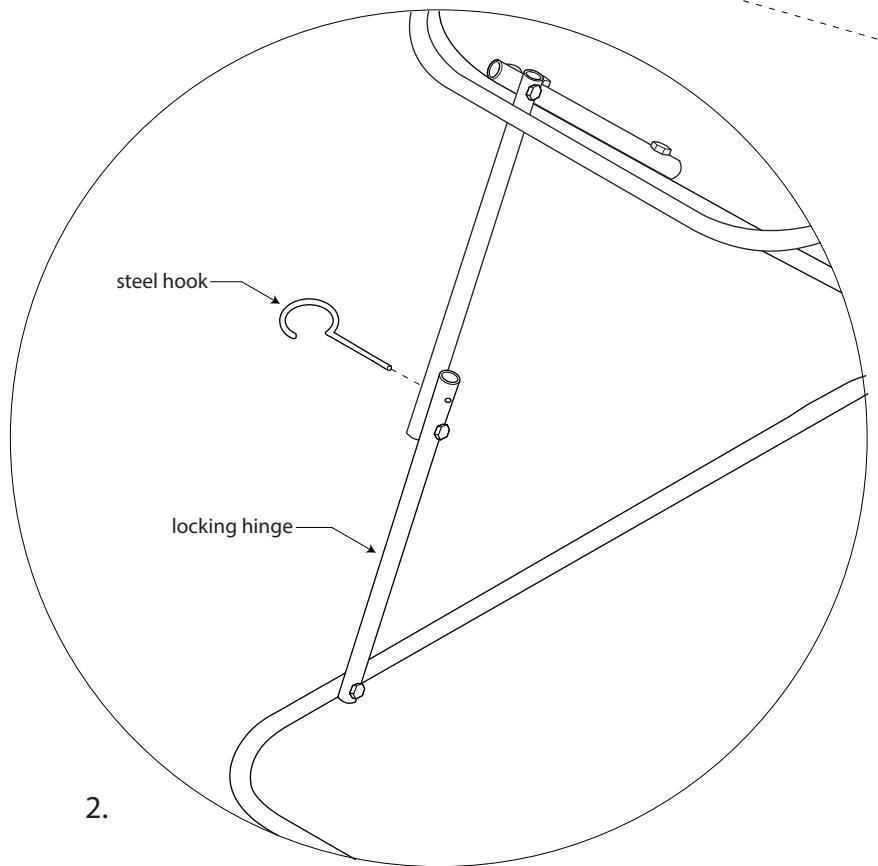
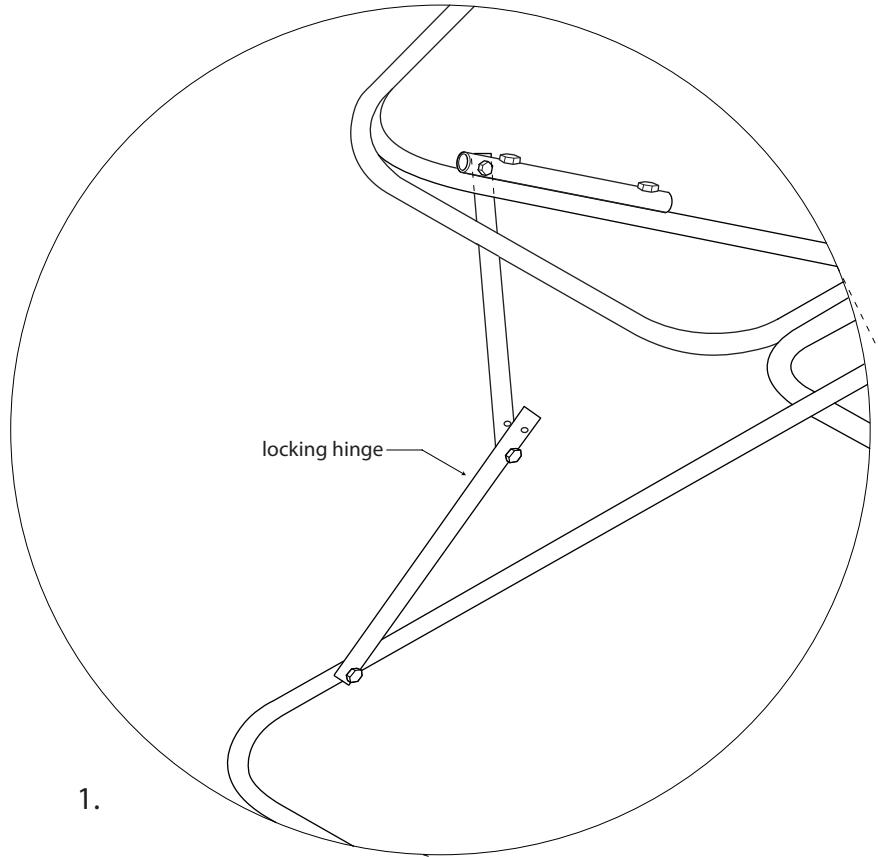
Opening Mechanism Detail

For Review
Scale: 1'' - 1'
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Rotating Hinge Detail



Locking Hinge Sequence



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Alejandra Meza
Isabella Ouyang
Anthony Ra

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Monday Oct. 9th

Cut and Bend Conduit Panel Components
Cut Plastic Panels

Tuesday Oct. 10th

Cut and Bend Conduit Panel Components
Mark placement for holes

Wednesday Oct. 11th

Drill holes in conduit
Assemble panels
Begin attaching plastic to panels (once holes are drilled)

Thursday Oct. 12th

Finish attaching plastic to panels
Build Bracing

Friday Oct. 13th

Heat Shrink Plastic

Saturday Oct. 14th

Cut and Bend Conduit Base
Drill Holes in Base

Sunday Oct. 15th

Create and install triangle panels (edge details)

Monday Oct. 16th

Create and assemble handles on panel
Create and assemble opening mechanism

Tuesday Oct. 17th

Test assembly and movement then address possible problems

Wednesday Oct. 18th

Transportation and Installation

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Construction Schedule

For Review

Scale: N/A

09.10.2017

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S8

Part	Quantity	Price per Unit	Total Cost
1/2" Steel Conduit	140' - 9" (includes 3" tolerance for error on each bent piece)	\$2.00 per 10' length	\$30
1/2" PVC Pipe	116"	\$2.17 per 10' length	\$2.17
3/8" Aluminum Tube	64"	\$10 per 36" length	\$20
1/4" x 2" Bolts	32	\$5.28 per 50 pack	\$5.28
1/4" x 4" Bolts	4	\$4.17 per 25 pack	\$4.17
1/4" Nuts	44	\$2.87 per 50 pack	\$2.87
1/4" Washers	18	\$2.46 per 25 pack	\$2.46
Acrylic Sheet	1	\$2.98 per 0.05" x10" x 8" sheet	\$2.98
1/4" x 3-3/4 Threaded Hook	2	\$0.62	\$1.24
1/2" 15" Stakes	8	\$3.28	\$26.24

Grand Total \$97.41

S9

S9

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Material and Budget List
For Review
Scale: N/A
09.10.2017
10 of 29

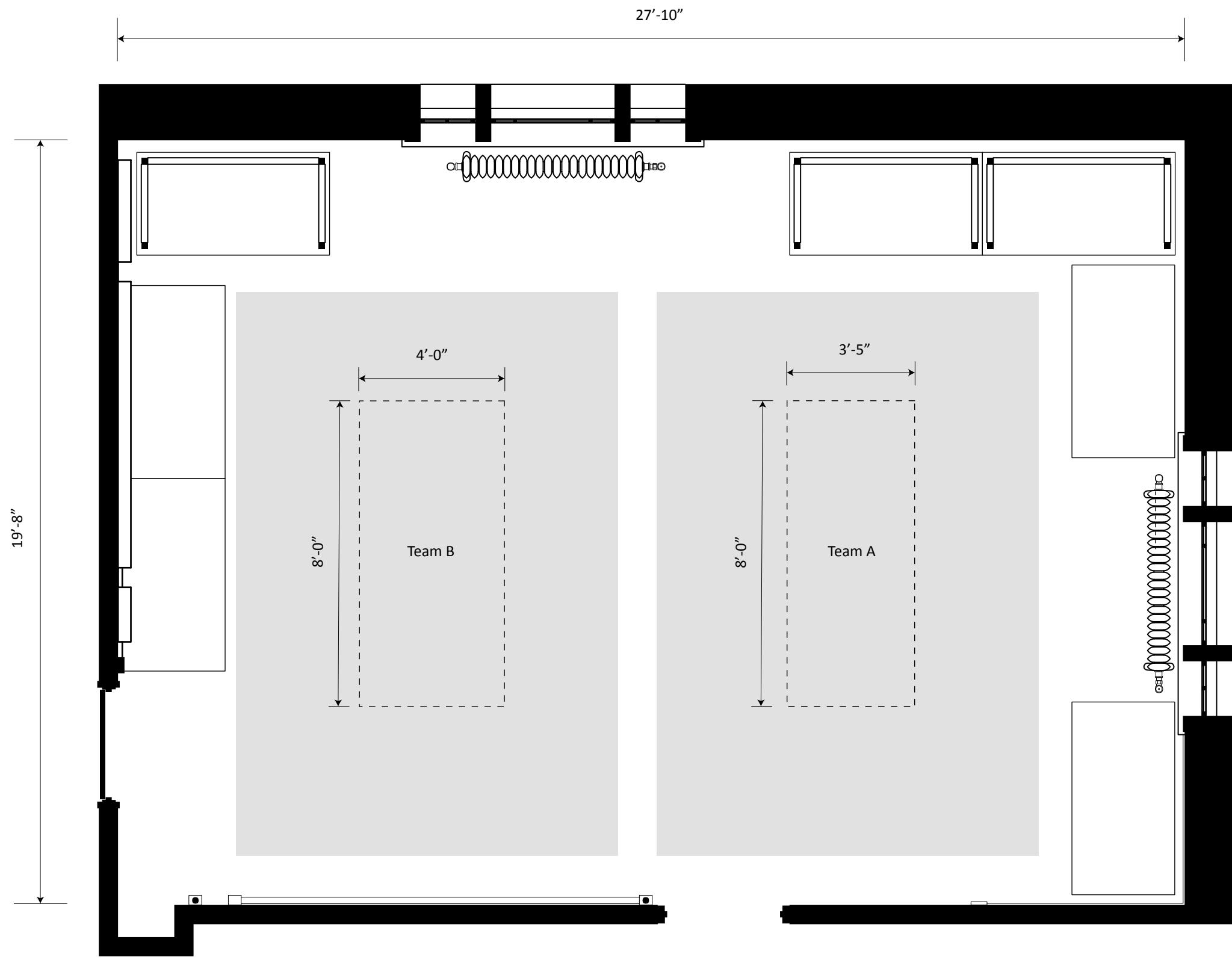
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S10

Studio Setup
For Review

Scale: 1/3"- 1'
09.10.2017
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S11

Structure Components

For Review

Scale: N/A

09.10.2017

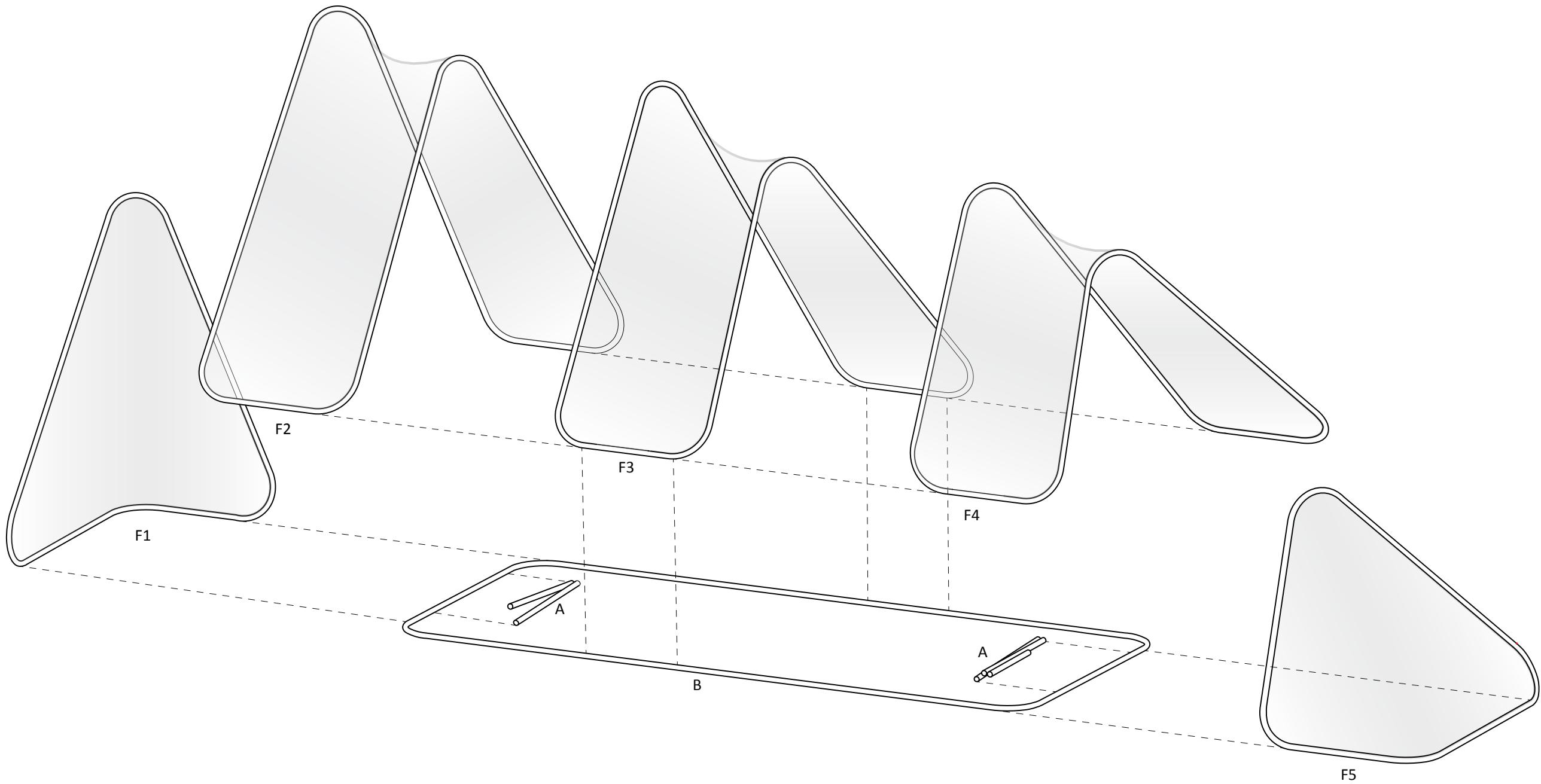
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S12

Panel Components - F1

For Review

Scale: N/A

09.10.2017

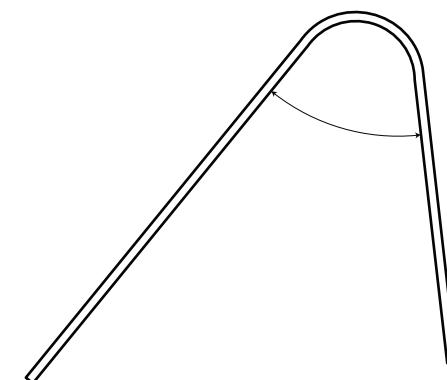
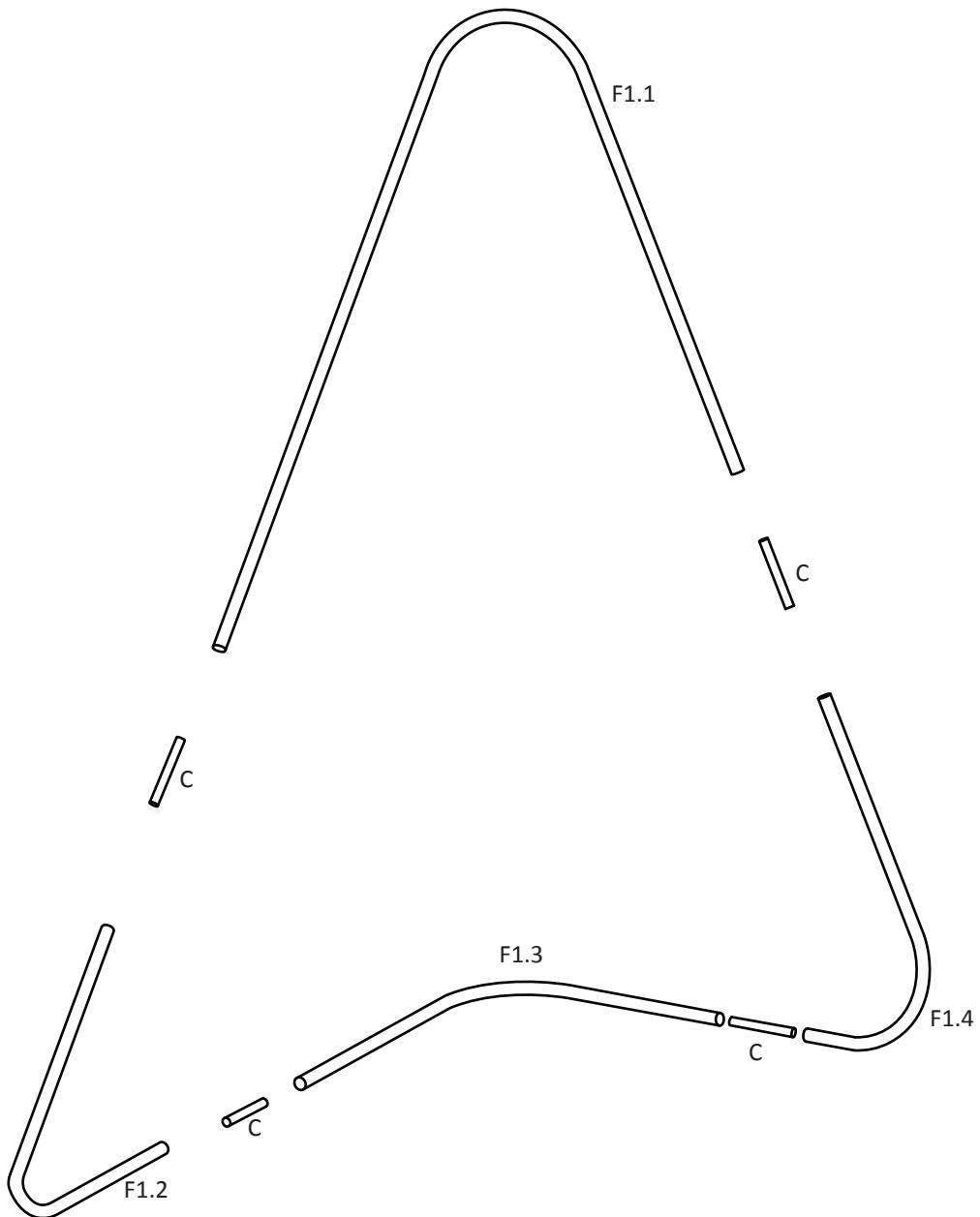
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Hoop House

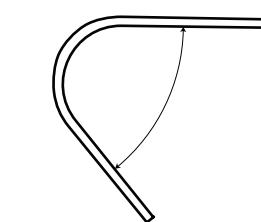
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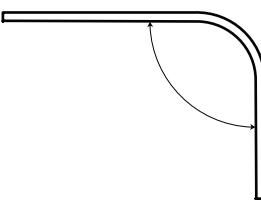
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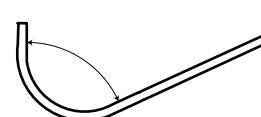
F1.1
Material: Conduit
Length: 72"
Bend: 45.75°



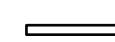
F1.2
Material: Conduit
Length: 34"
Bend: 51.2°



F1.3
Material: Conduit
Length: 34"
Bend: 90°



F1.4
Material: Conduit
Length: 27"
Bend: 65.4°



C x 4
Material: PVC
Length: 4"

S12

Panel Components - F2

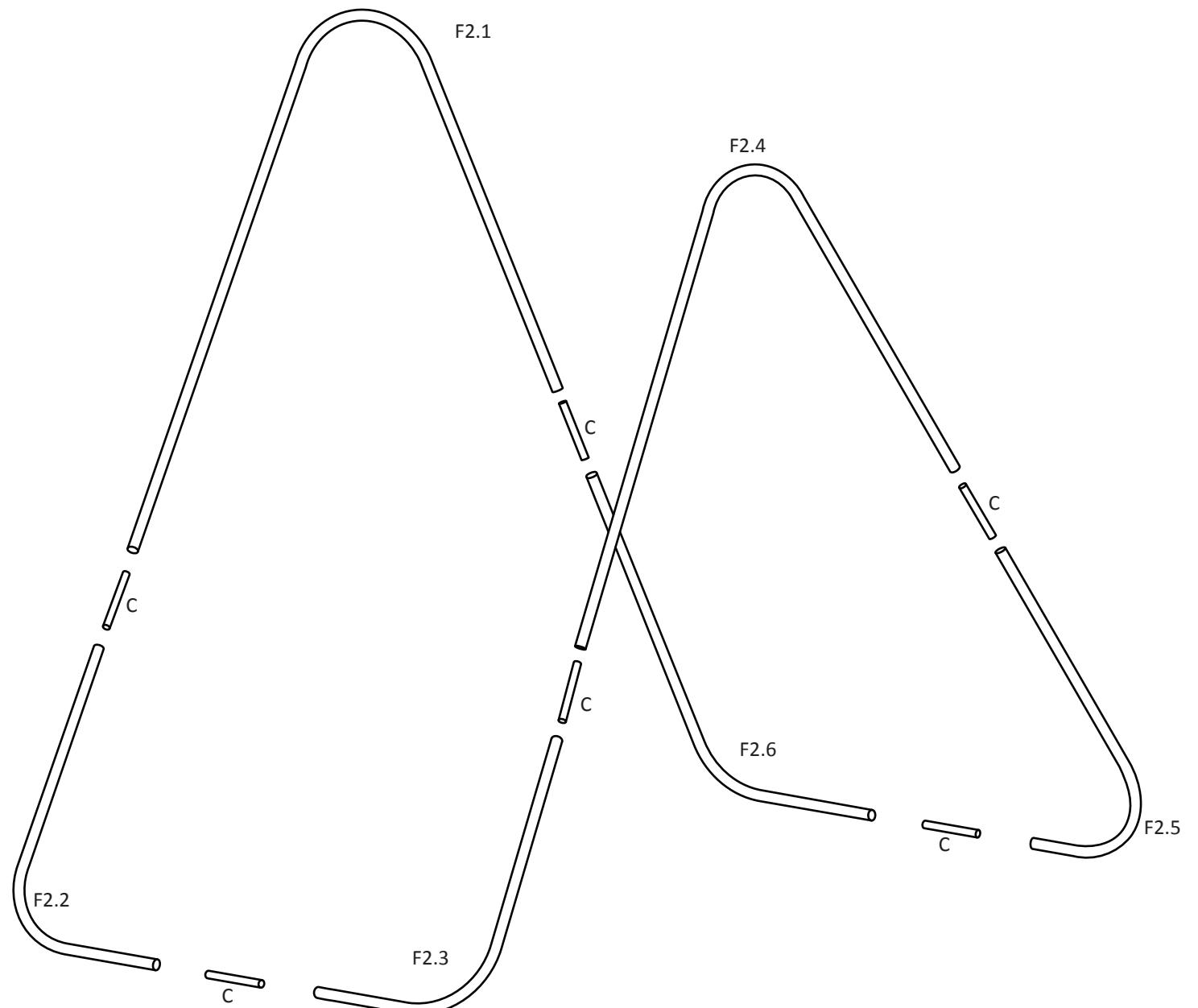
For Review
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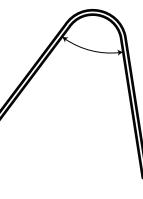
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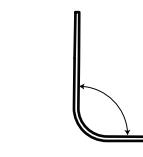
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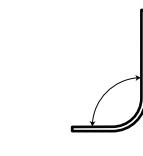
C x 6
Material: PVC
Length: 4"



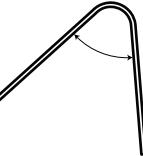
F2.1
Material: Conduit
Length: 71"
Bend: 45.75°



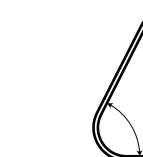
F2.2
Material: Conduit
Length: 31"
Bend: 90°



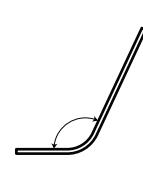
F2.3
Material: Conduit
Length: 30"
Bend: 90°



F2.4
Material: Conduit
Length: 61"
Bend: 52.5°



F2.5
Material: Conduit
Length: 31"
Bend: 62.9°



F2.6
Material: Conduit
Length: 34"
Bend: 115°

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Panel Components - F3

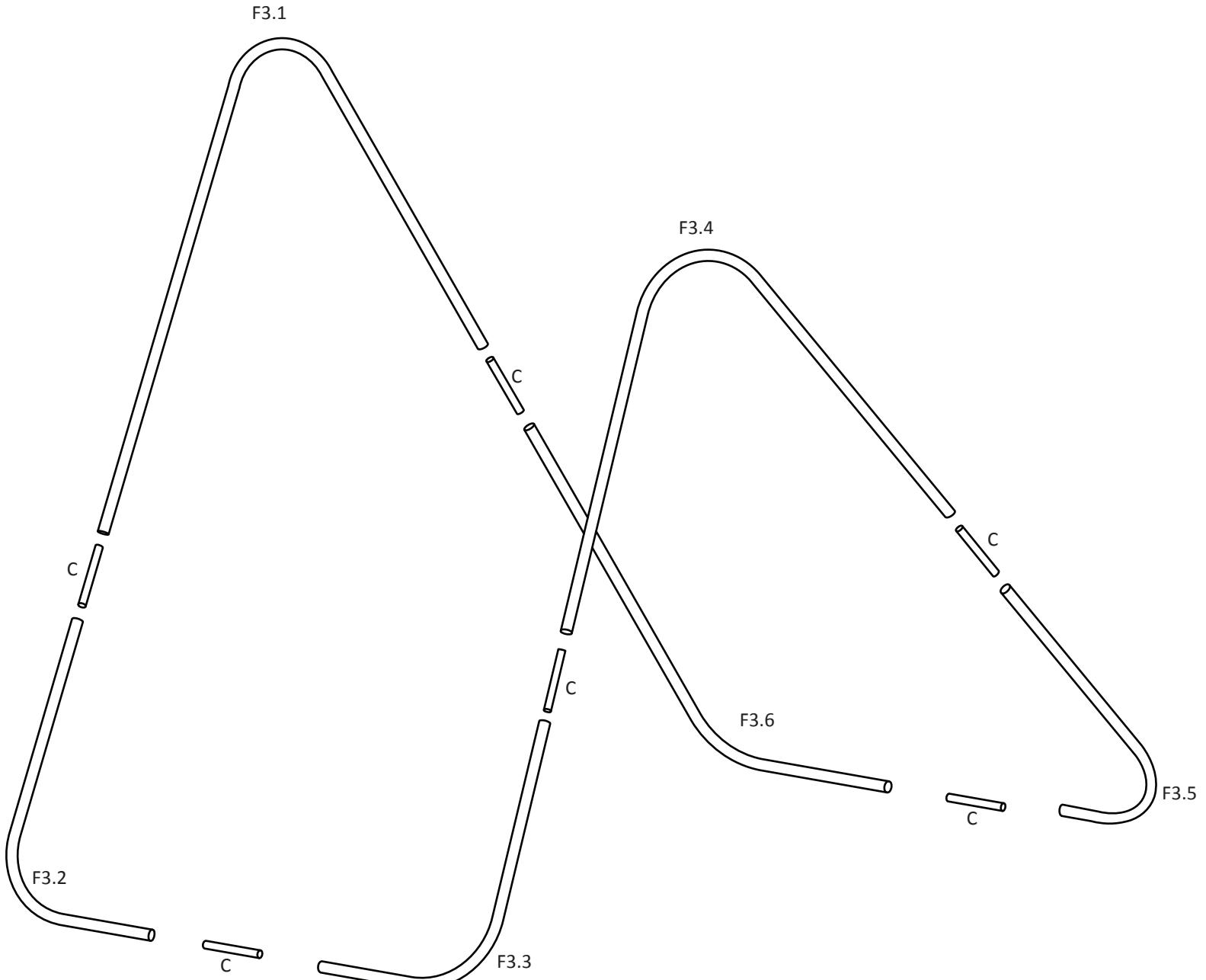
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F3.1	Material: Conduit Length: 61" Bend: 52.5°
F3.2	Material: Conduit Length: 30" Bend: 90°
F3.3	Material: Conduit Length: 28" Bend: 90°
F3.4	Material: Conduit Length: 53.5" Bend: 58.5°
F3.5	Material: Conduit Length: 27.5" Bend: 63.5°
F3.6	Material: Conduit Length: 37.5" Bend: 118°
C x 6	Material: PVC Length: 4"

S12

Panel Components - F4

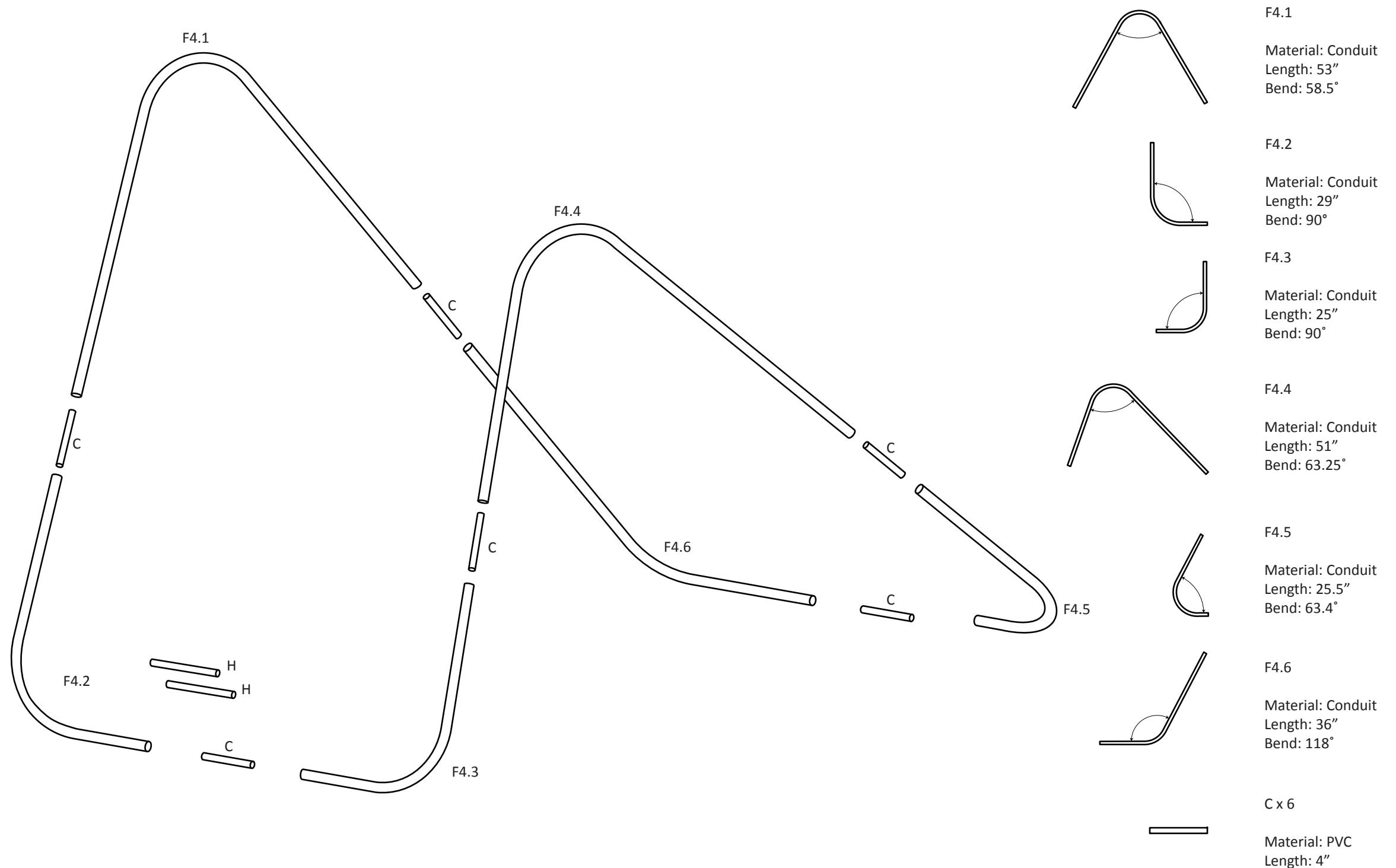
For Review
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S12

Panel Components - F5

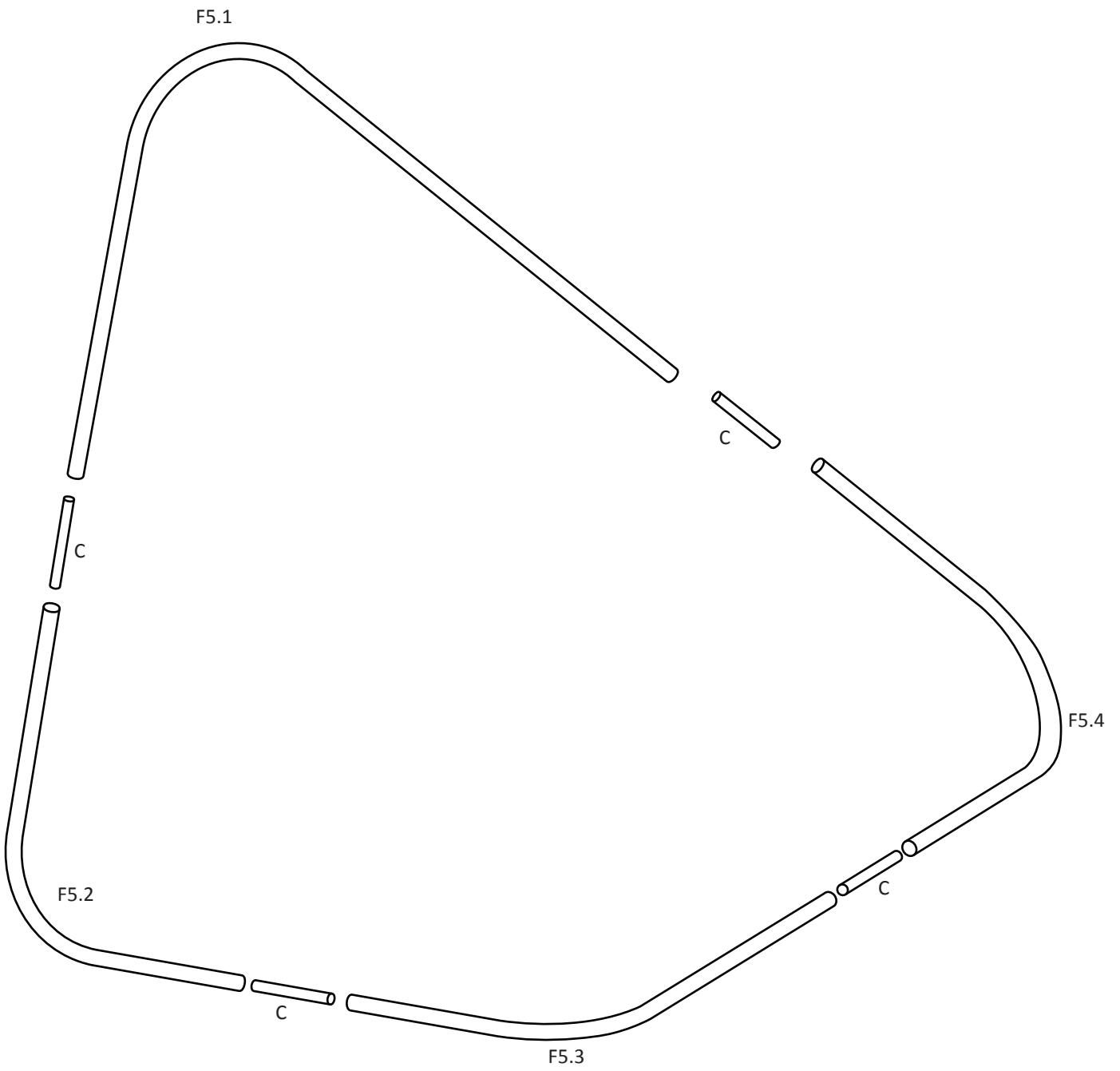
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F5.1

Material: Conduit
Length: 51"
Bend: 63.25°

F5.2

Material: Conduit
Length: 26.5"
Bend: 90°

F5.3

Material: Conduit
Length: 33.5"
Bend: 90°

F5.4

Material: Conduit
Length: 34"
Bend: 56.4°

C x 4

Material: PVC
Length: 4"

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Panel Components - A1, 12

For Review
Scale: N/A
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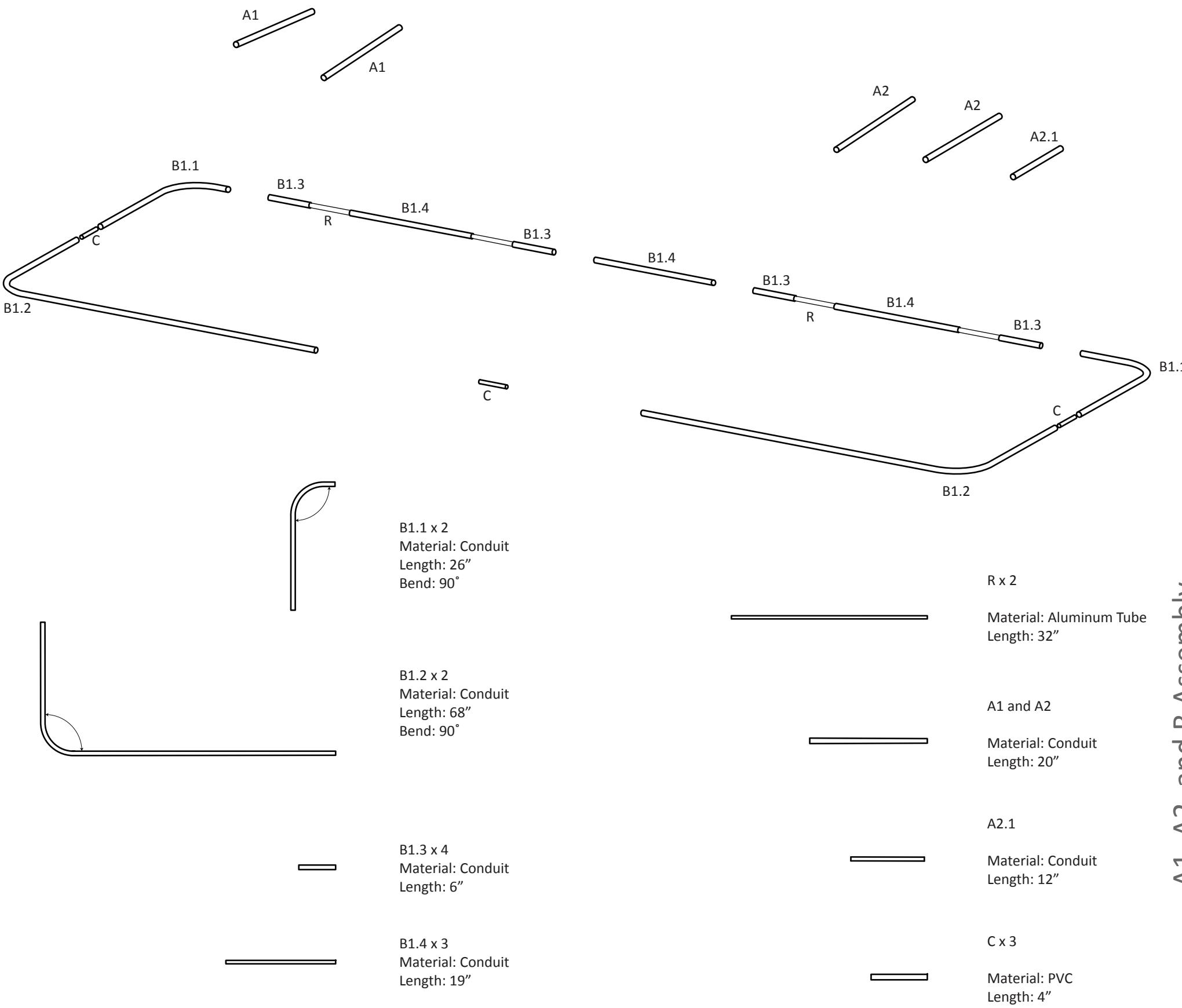
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A1, A2, and B Assembly

For Review
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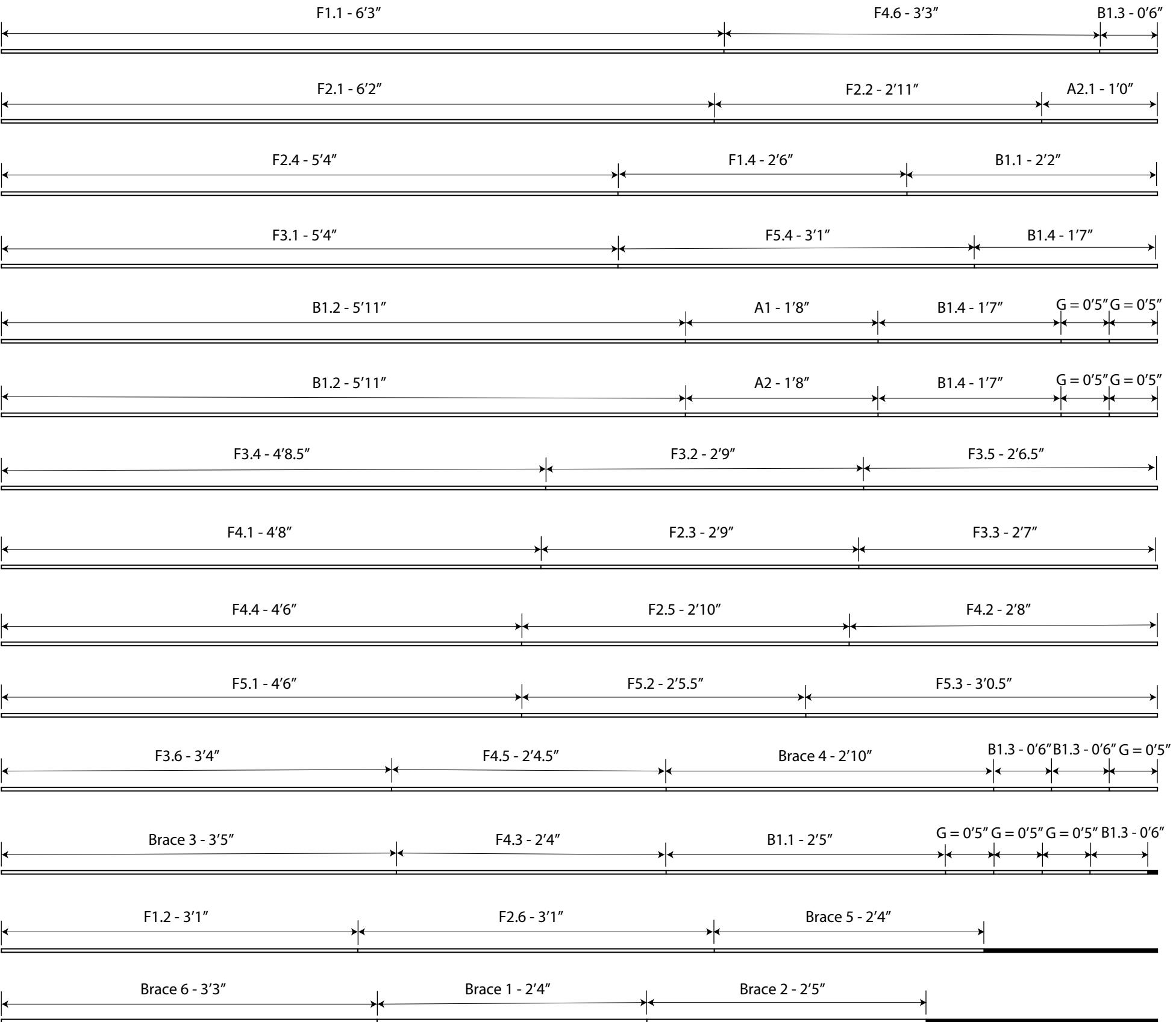
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Conduit Measurement

For Review
Scale: 1'' - 1'
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Connection Components

For Review
Scale: 1'-1'
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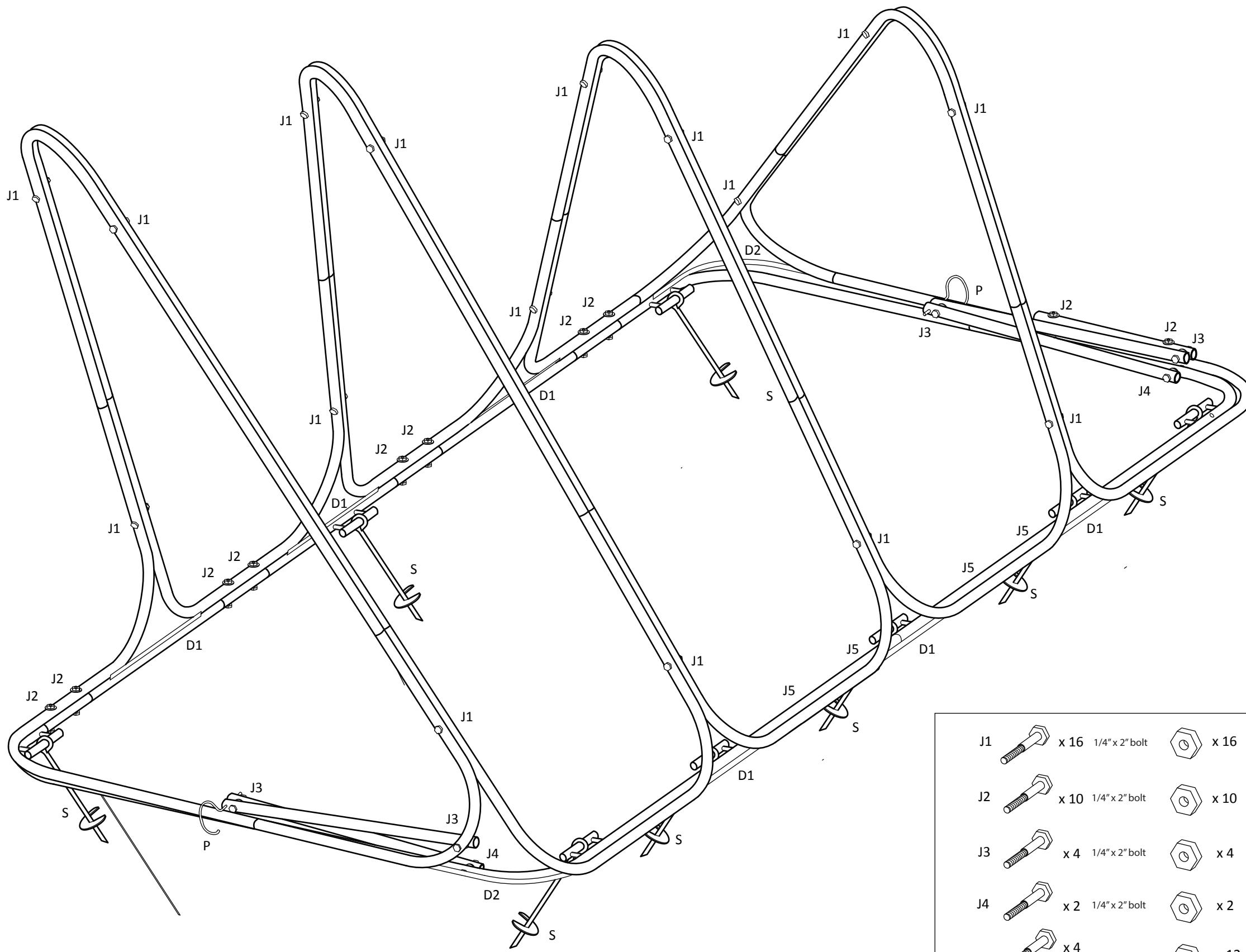
	x 16	1/4" x 2" bolt		x 16	1/4" nut
	x 10	1/4" x 2" bolt		x 10	1/4" nut
	x 4	1/4" x 2" bolt		x 4	1/4" nut
	x 2	1/4" x 2" bolt		x 2	1/4" nut
	x 4	1/4" x 3" bolt		x 12	1/4" nut
	x 10	ground anchor		x 2	1/4" x 2" steel hook
	x 6	1/2" x 12" acrylic		x 2	1 1/2" x 16" acrylic strip

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Cut Sheets

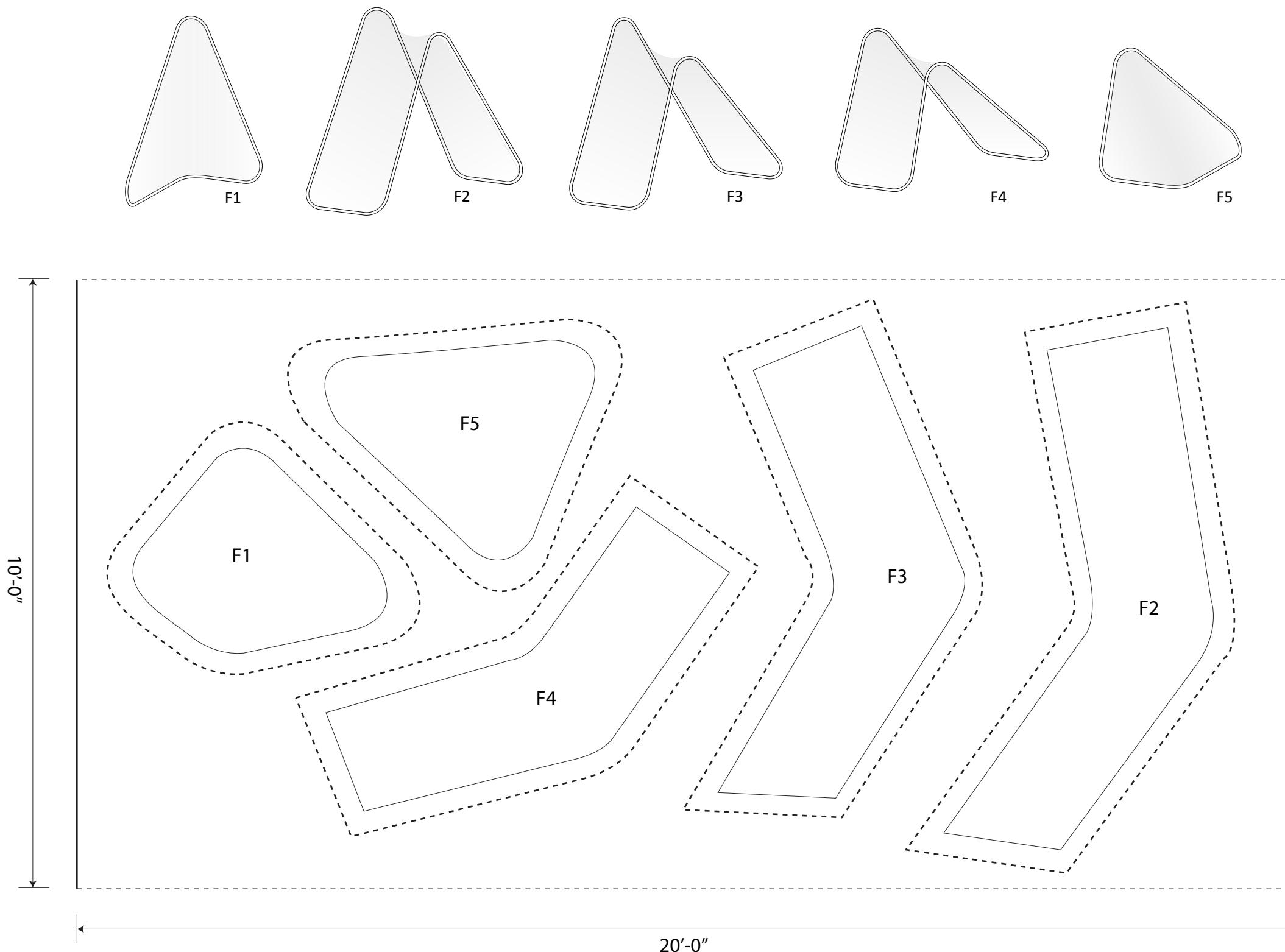
For Review

Scale: 1' - 1/2"

09.10.2017

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Temporary Internal Bracing

For Review
Scale: 1"-1'
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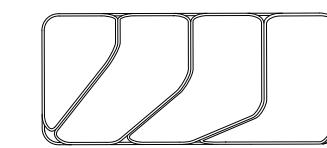
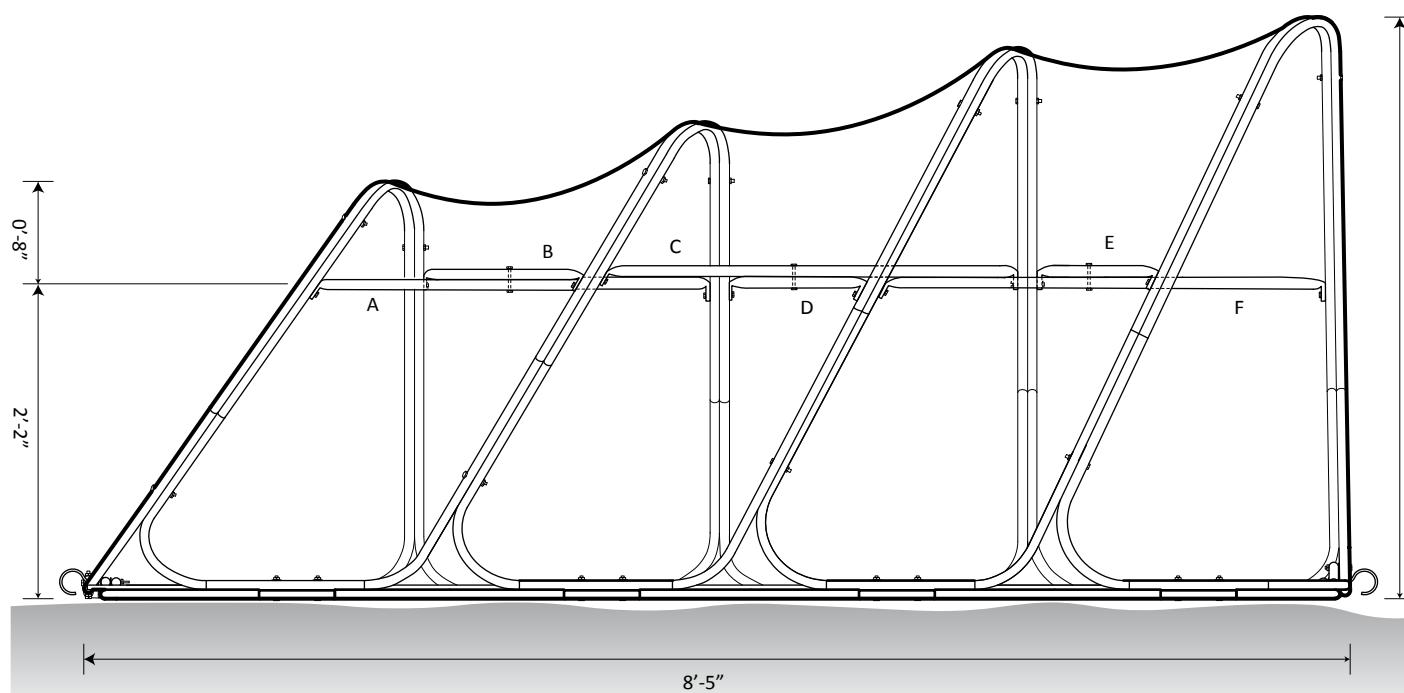
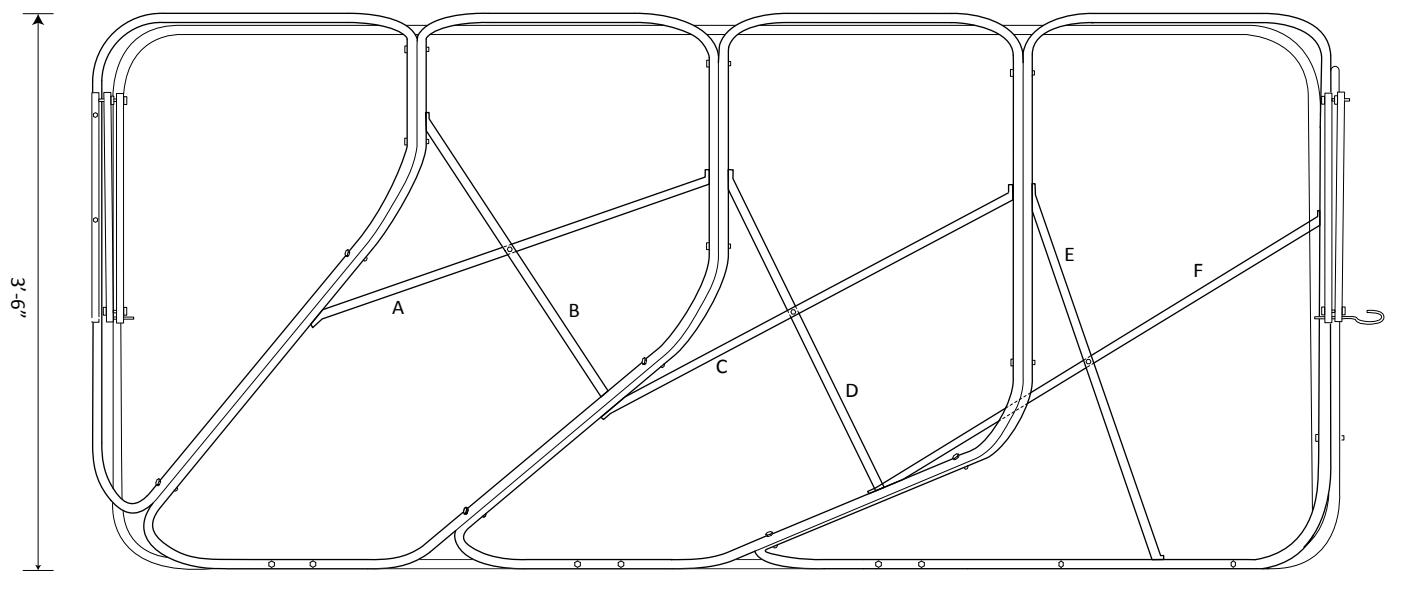
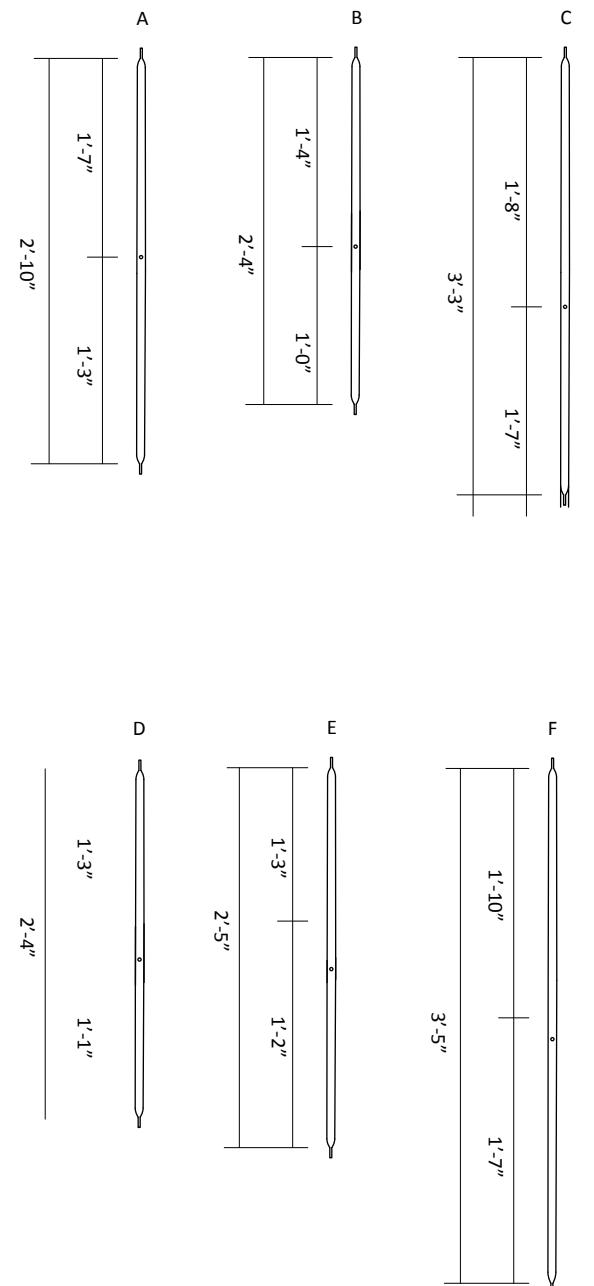
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Components for Temporary Internal Bracing Structure

To be installed only during Heat Shrink Process
Each crimped end measures 2" long



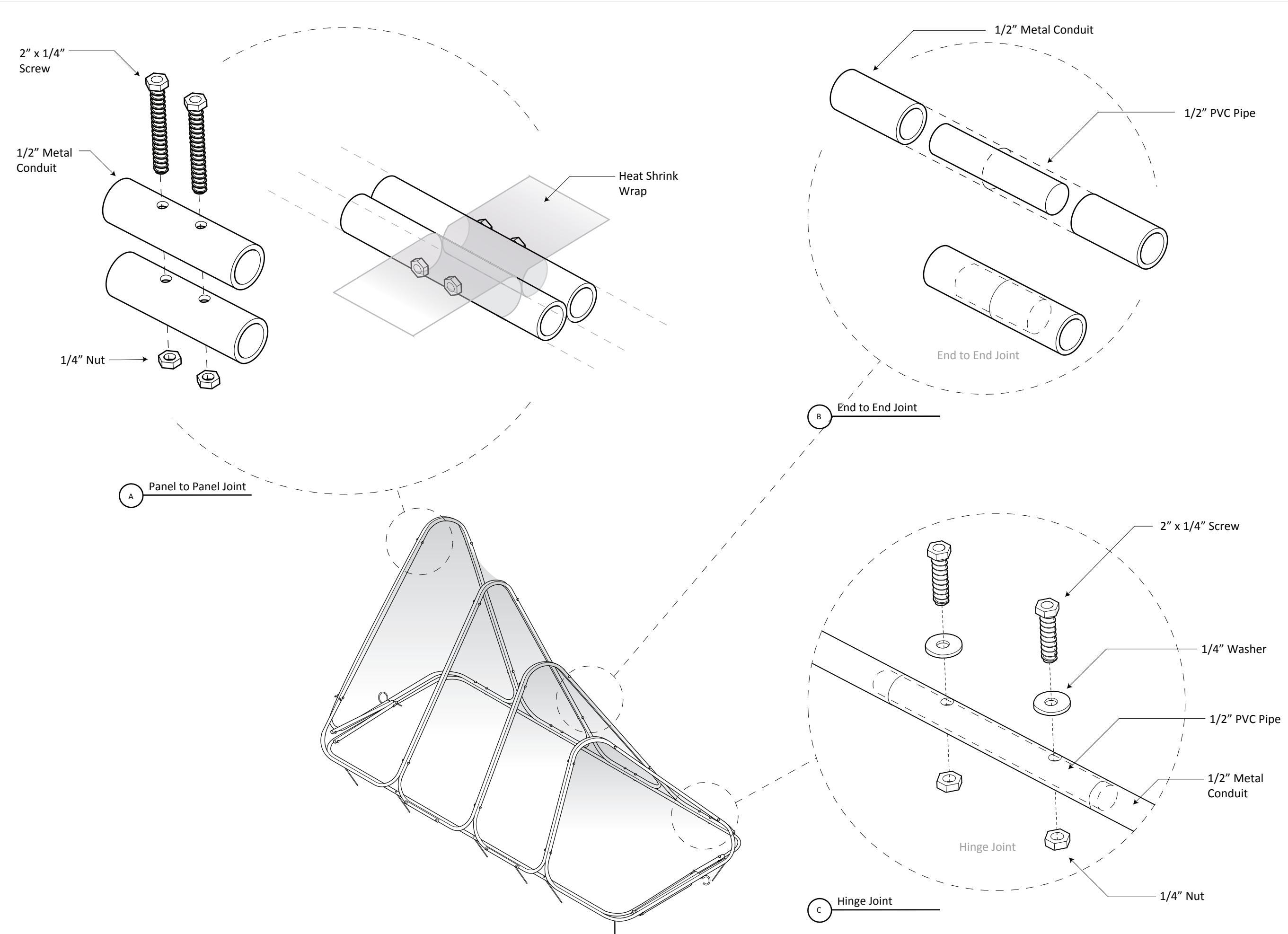
N

Joints Detail

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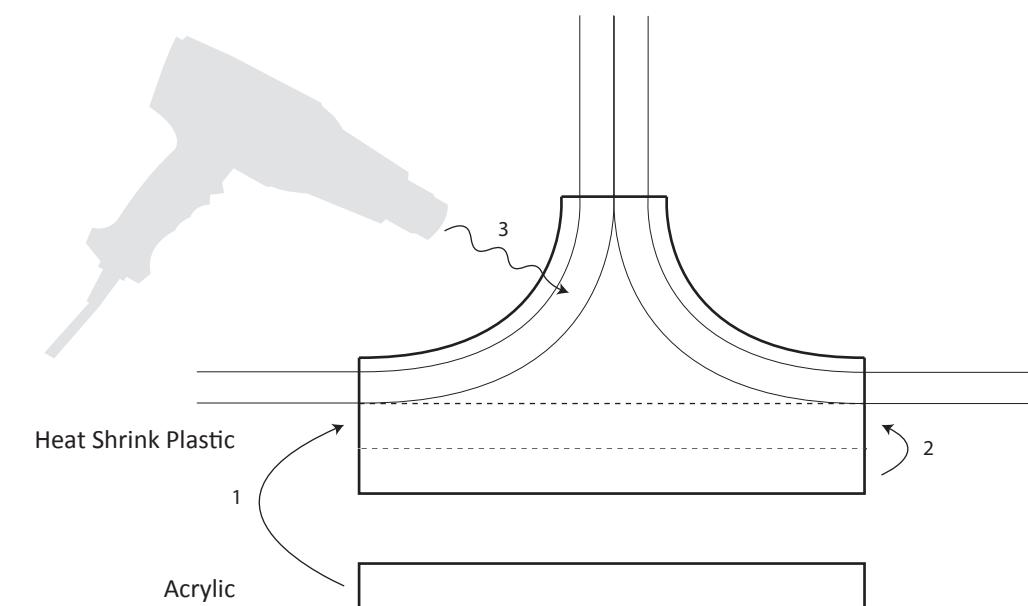
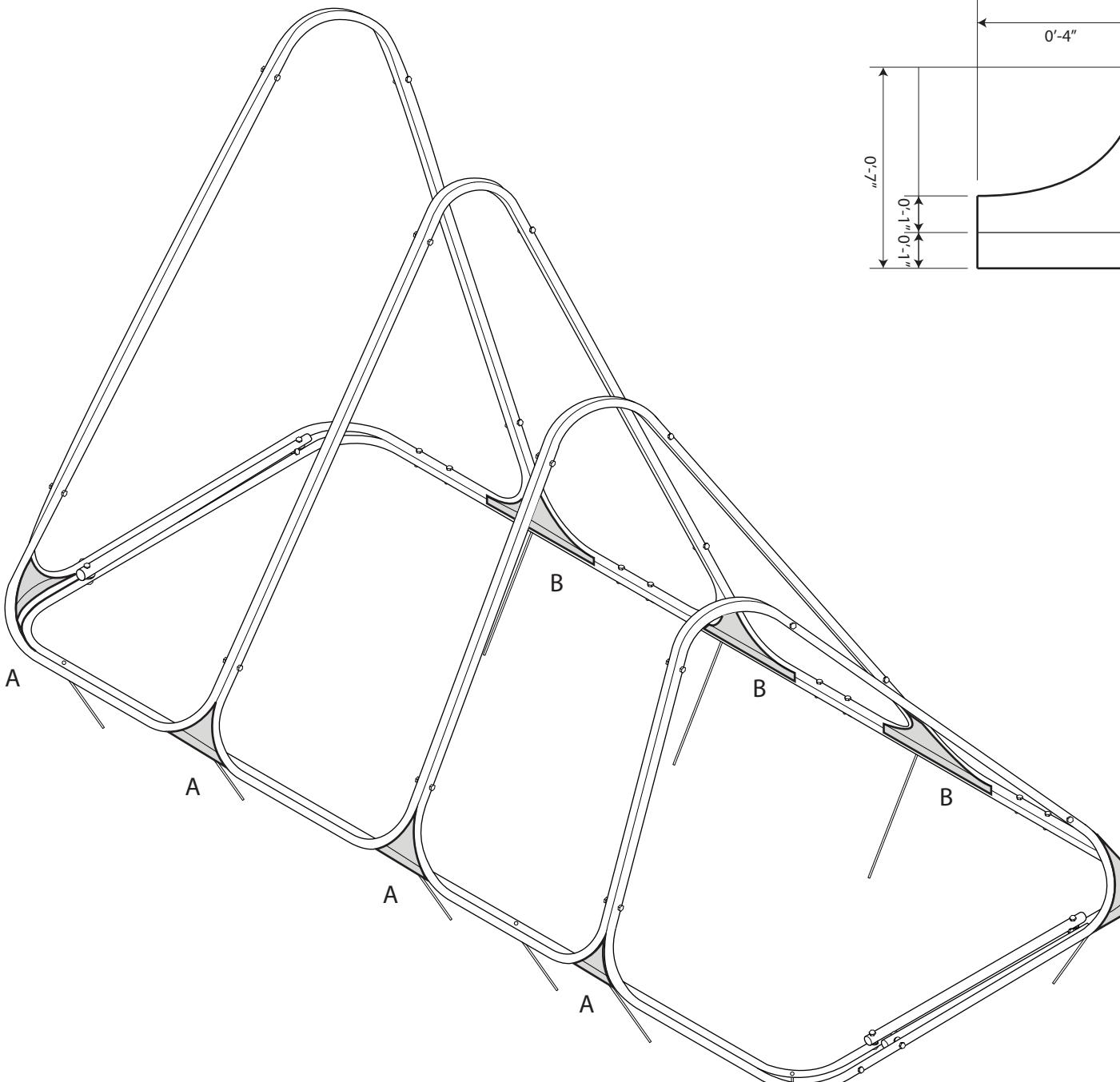
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S18

Bottom Edge Seal Detail

For Review
Scale: 1"-1'
09.10.2017
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1. Place acrylic strip onto shrink wrap plastic 1" above bottom edge
2. fold bottom edge 1" up to top of acrylic, then fold acrylic and wrapped plastic up 1" to the bottom edge of the curve
3. Apply light heat to wrapped acrylic to secure in place
4. Place rounded edges of plastic piece onto inside bottom edge of panel intersections and apply heat to secure in place

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Anthony Ra

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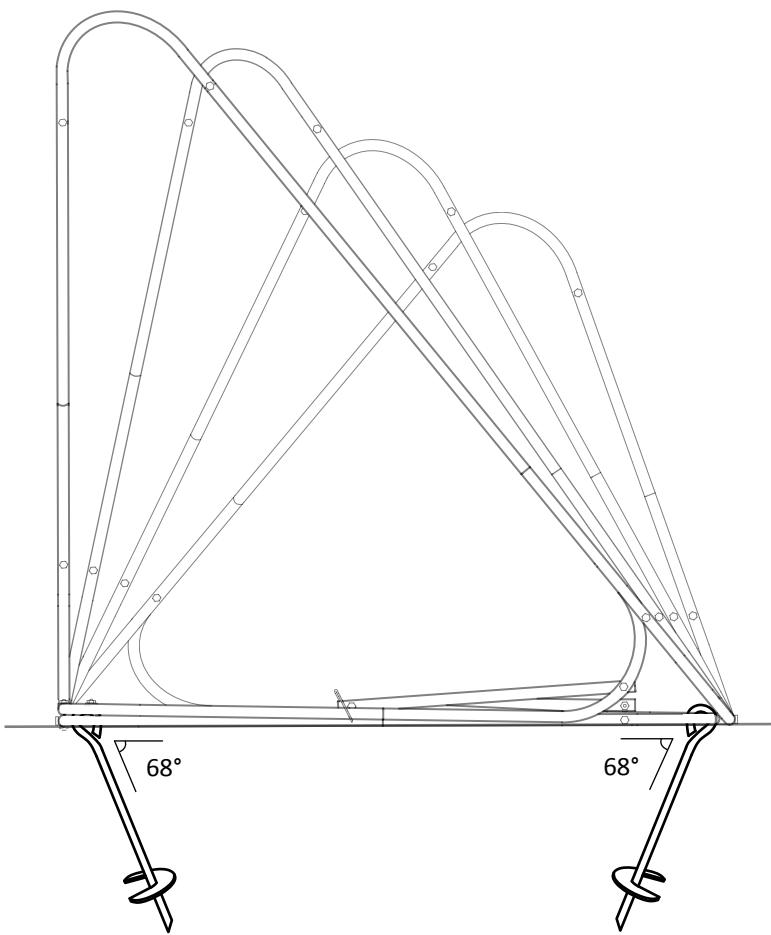
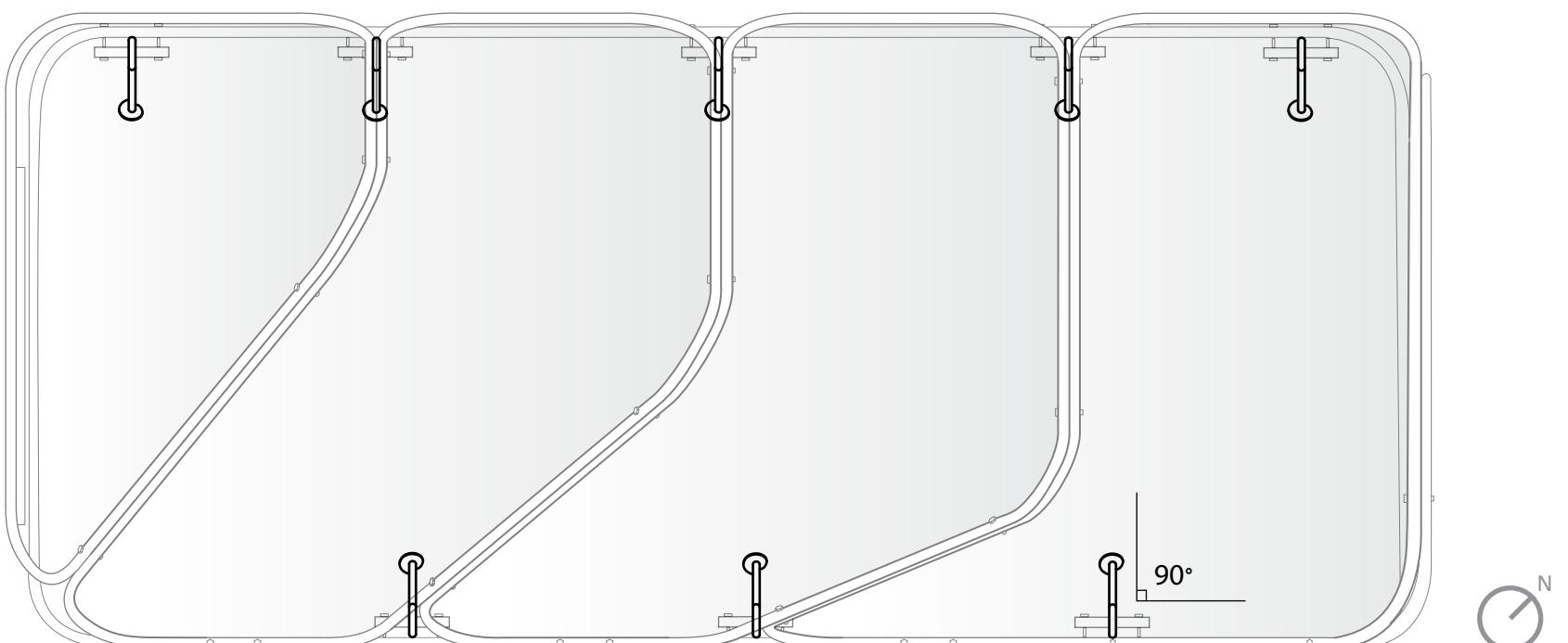
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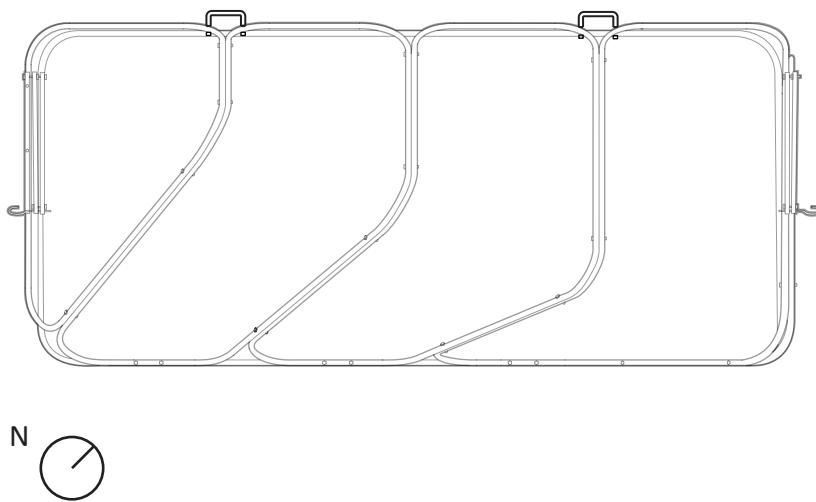
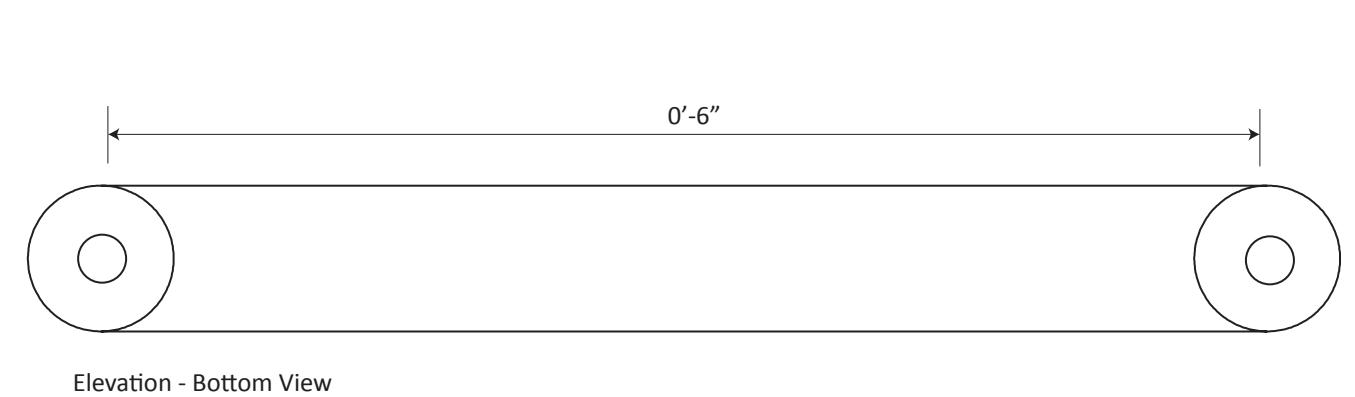
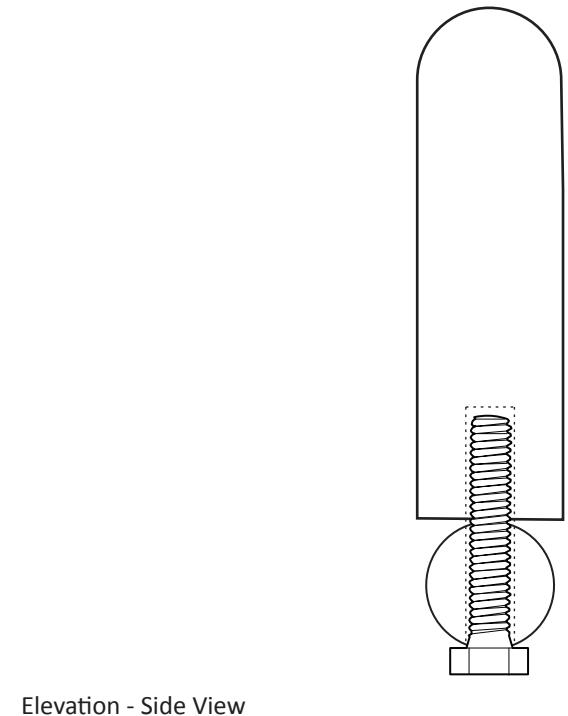
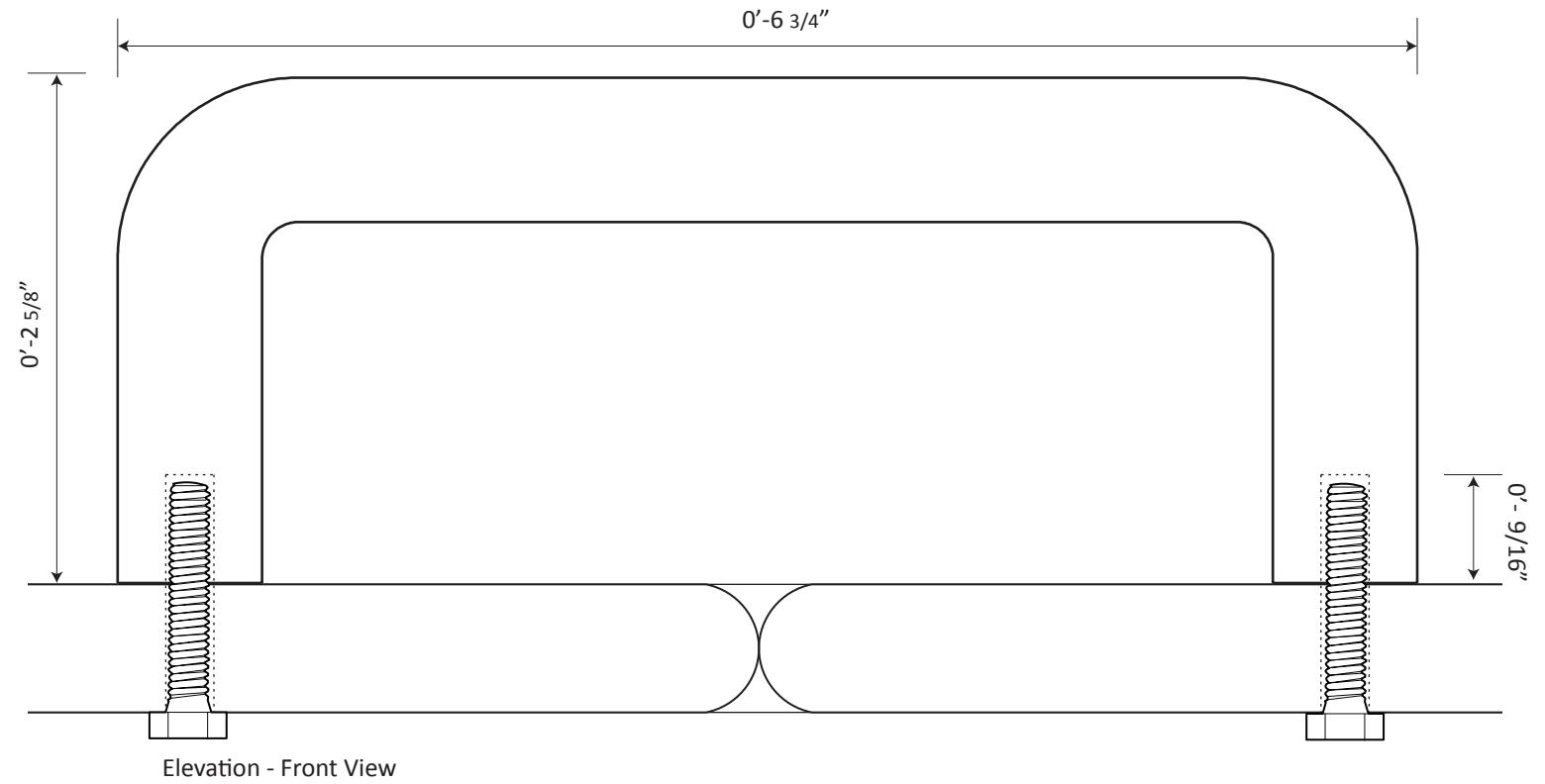
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Ground Anchor Detail

For Review
Scale: 1" - 1'
09.10.2017
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Panel Handle Detail

For Review

Scale: 1"- 1"

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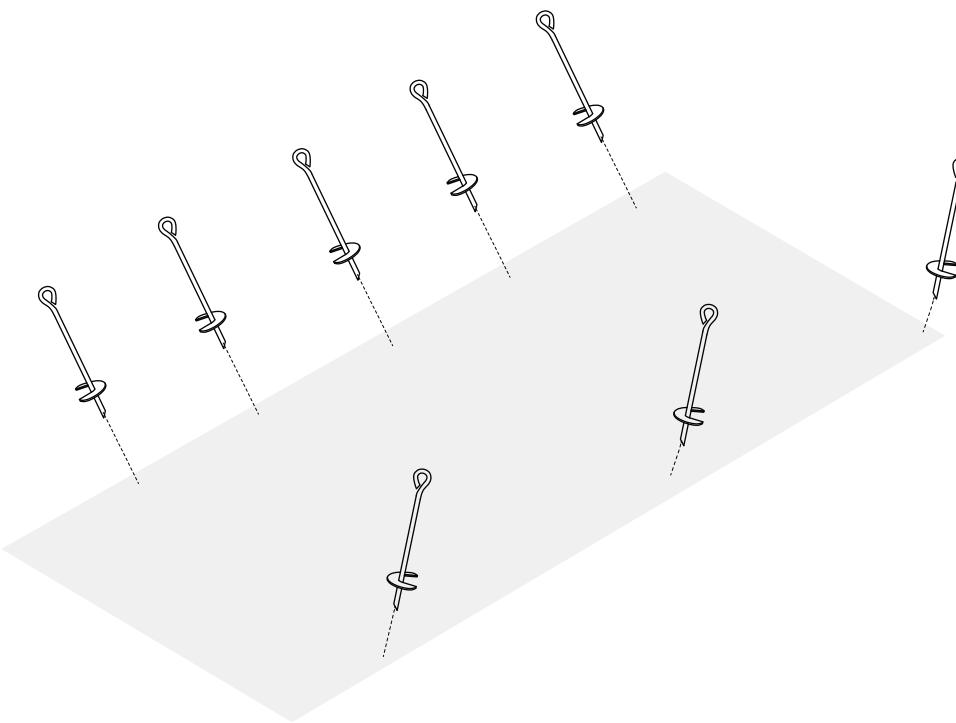
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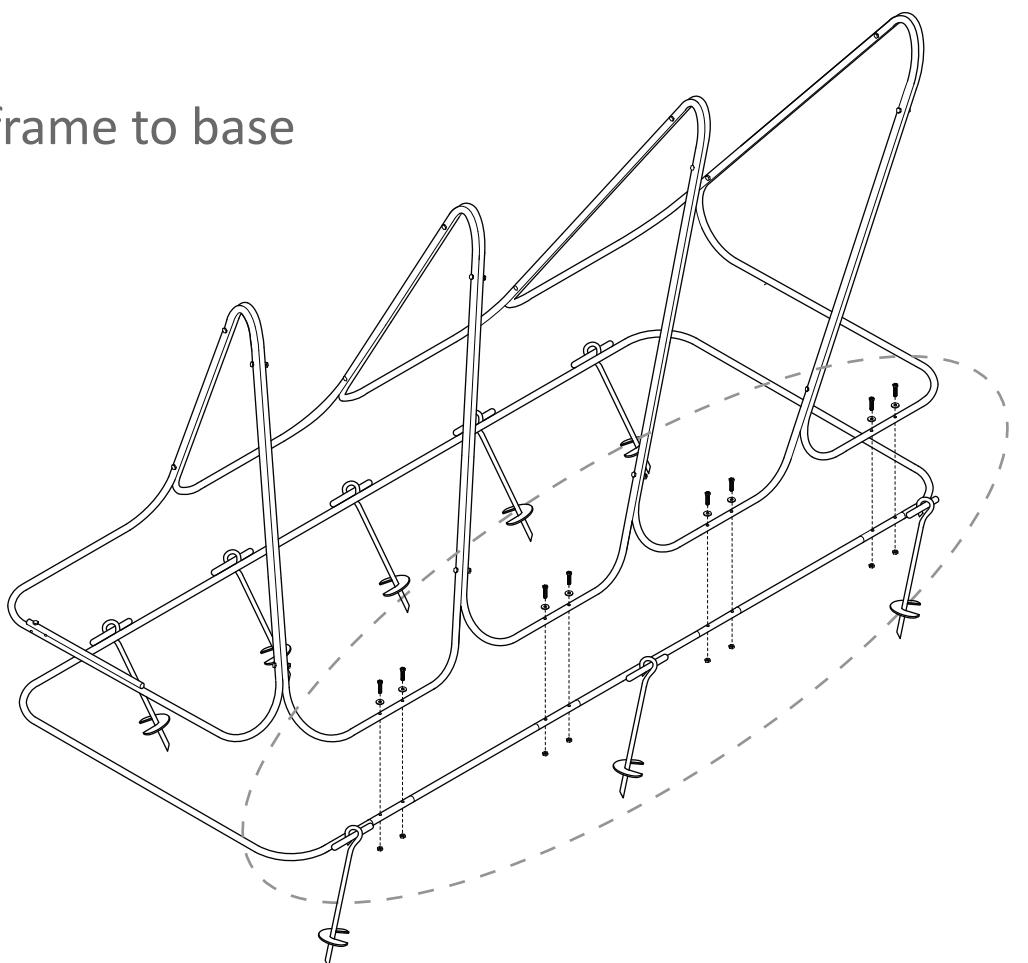
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S20

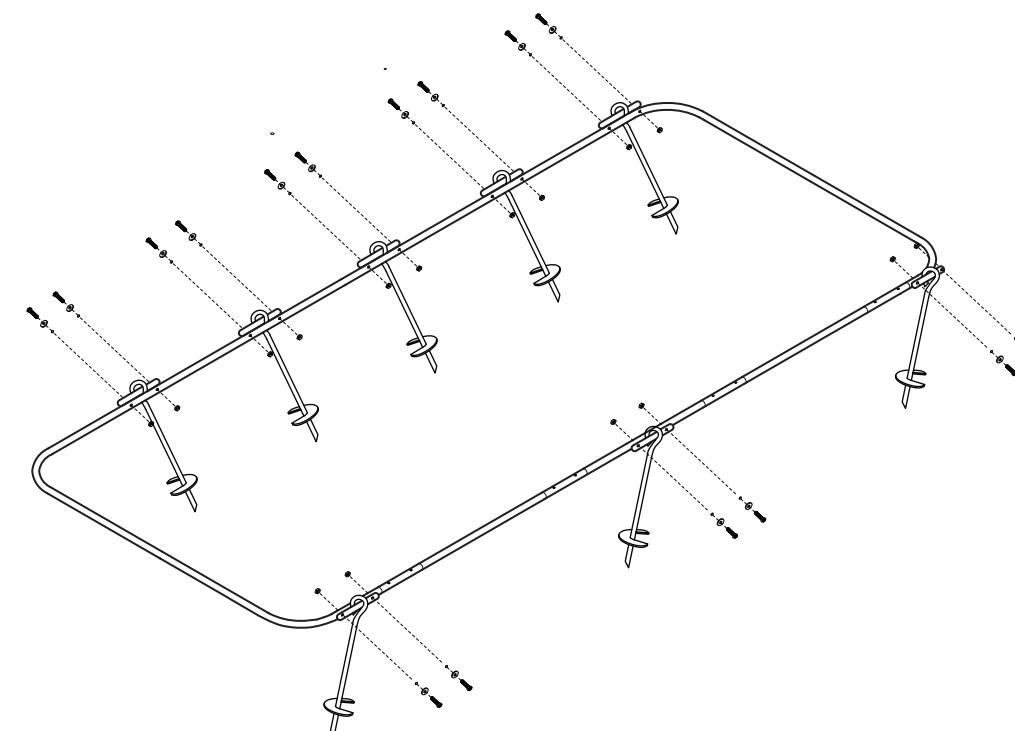
Step 1:
Embed Ground Anchors



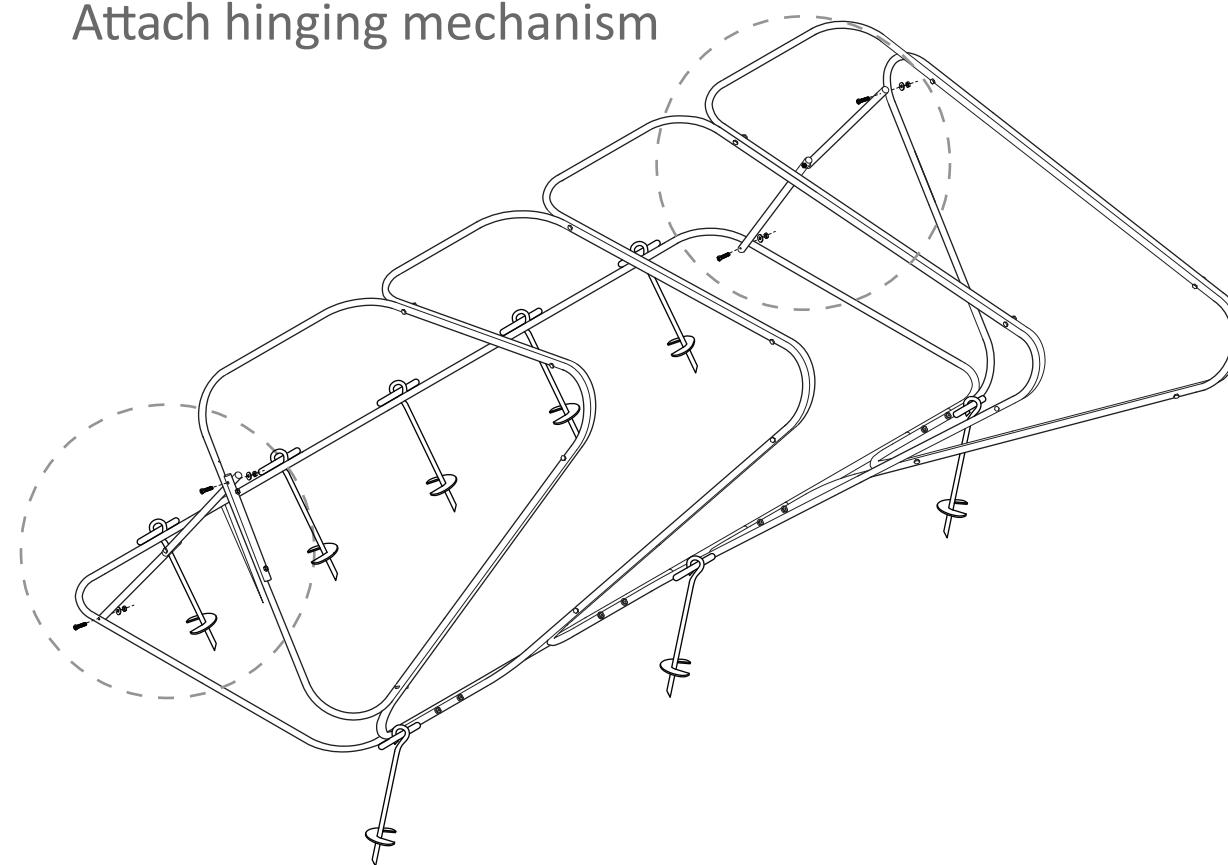
Step 2:
Attach frame to base



Step 2:
Attach Base to Ground Anchors



Step 4:
Attach hinging mechanism



Storage Disassembly

For Review

Scale: 1"-1'

09.10.2017

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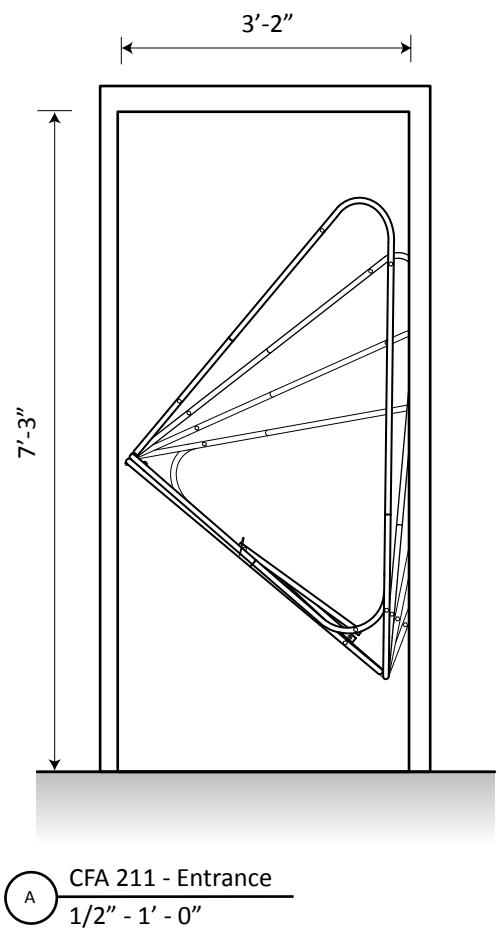
Hoop House

Phipps Conservatory Rooftop Garden

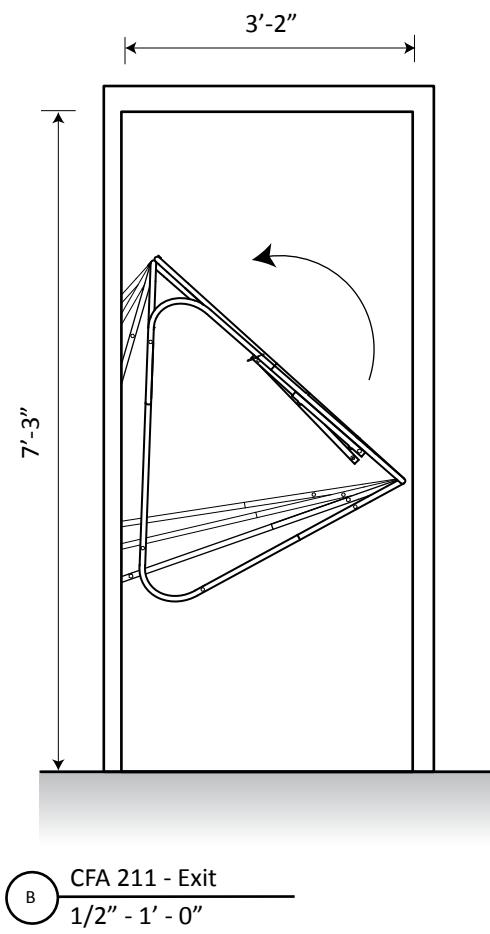
Just 'Duit

Alejandra Meza
Anthony Ra
Colleen Duong
Isabella Ouyang
Ryu Kondrup

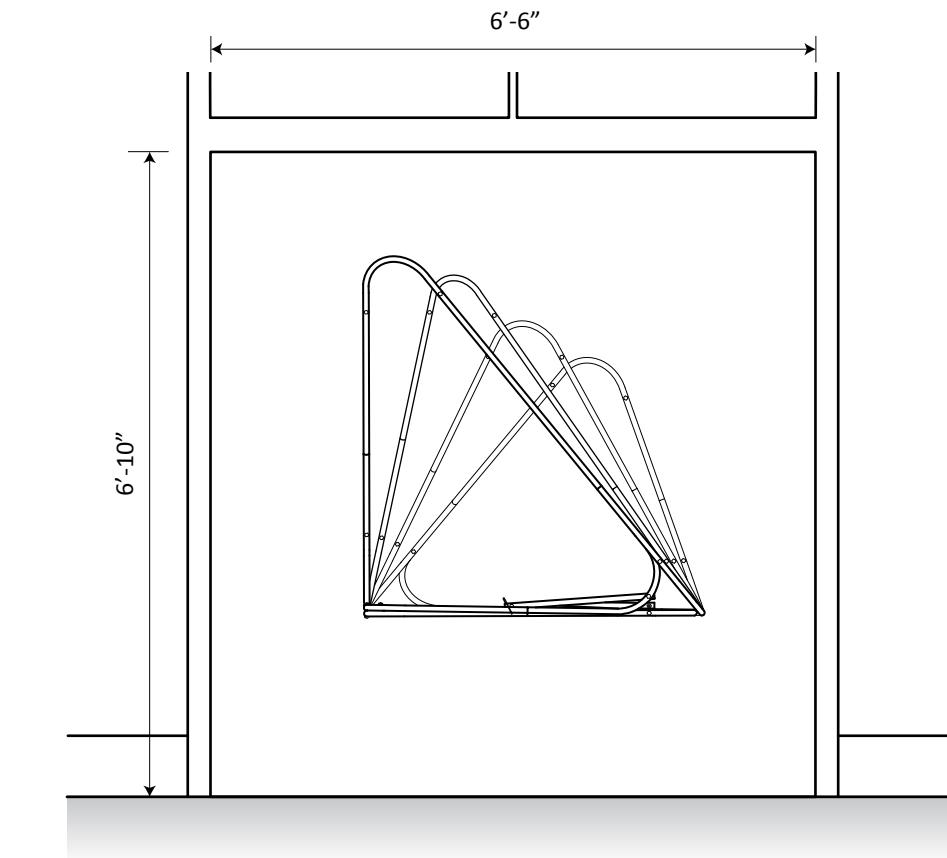
S21



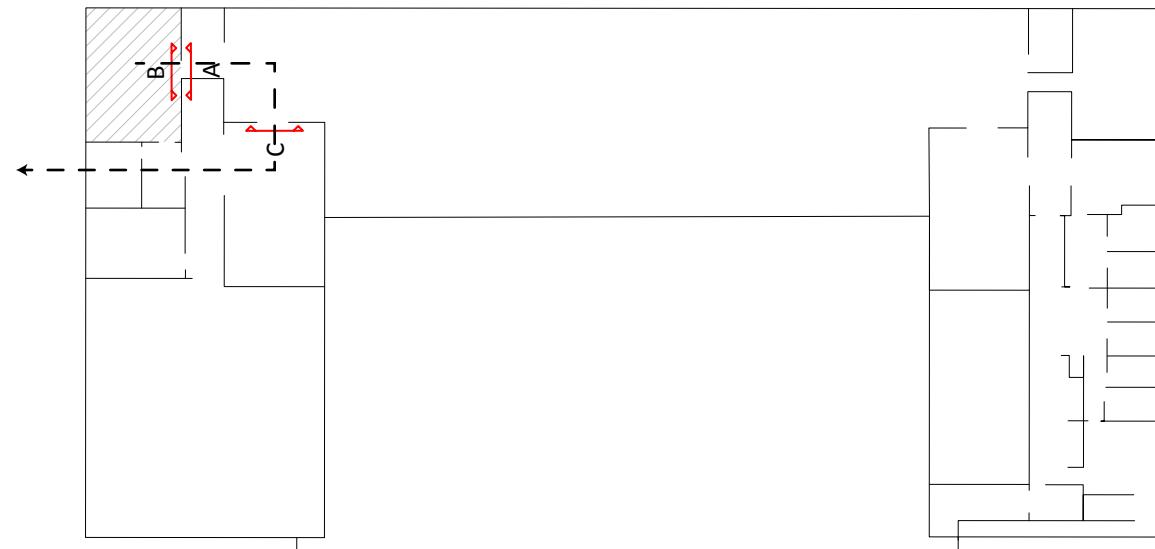
A CFA 211 - Entrance
1/2" - 1' - 0"



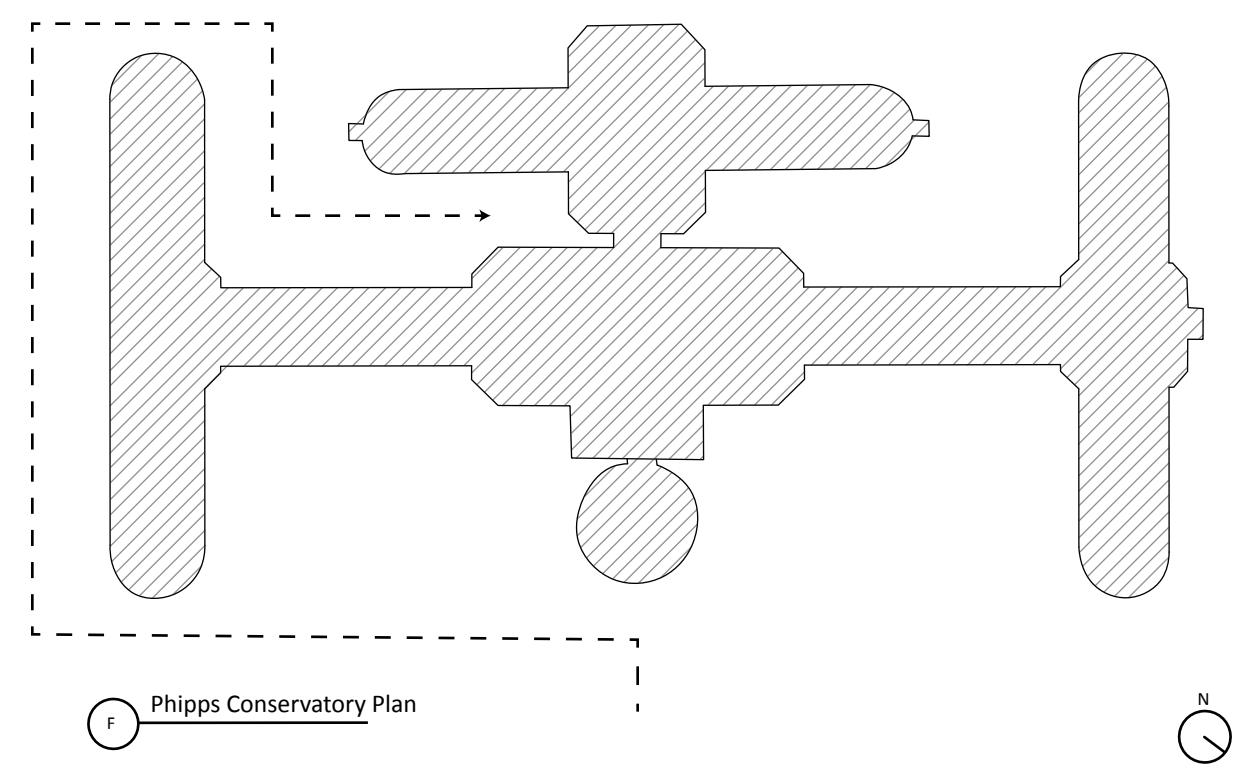
B CFA 211 - Exit
1/2" - 1' - 0"



C CFA 200 - Exit
1/2" - 1' - 0"



D CFA 2nd Floor Plan



F Phipps Conservatory Plan

Just 'Duit'

Colleen Duong
Edward Fischer
Ryu Kondrup
Ale Meza
Isabella Ouyang
Anthony Ra

Hoop House

Phipps Conservatory Rooftop Garden

Transportation - Diagram

For Review
Scale: 1/2"-1'
09.10.2017
28 of 29

S22

S22

Transportation - Diagram

For Review
Scale: 1"- 1'
09.10.2017
29 of 29

Hoop House

Phipps Conservatory Rooftop Garden

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