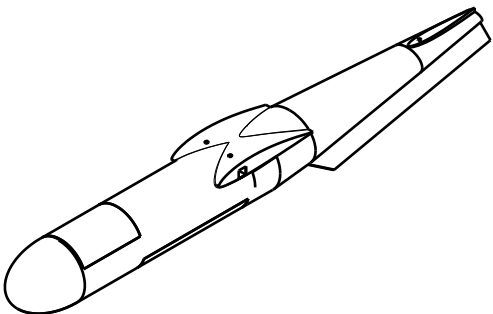


Isometric view  
Scale: 1:10

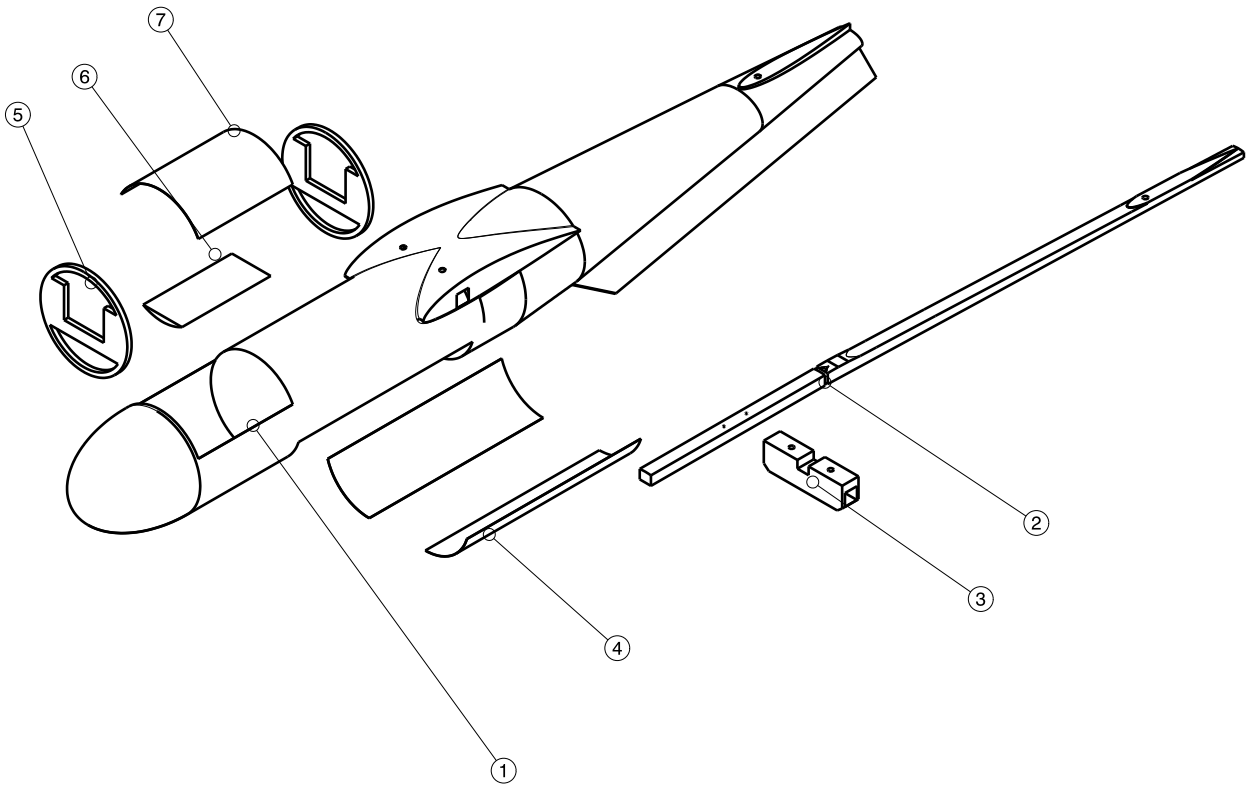
### Bill of Materials

Part Number	Part Name	Manufacturer	Quantity
1	Fuselage Assy.	-	1
2	Left Wing Assy.	-	1
3	Right Wing Assy.	-	1
4	Tail Assy.	-	1
5	Payload System Assy.	-	1
6	Electronics Bay Assy.	-	1
7	Payload Bay Door	-	2
8	Electronics Bay Door	-	1
9	Wing Spar Box	-	1
10	Motor Mount Plate	SunnySky USA	2
11	X4125 V3 280-kV Motor	SunnySky USA	2
12	18x12e Propeller	APC Propellers	2

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Whole Aircraft Assembly		G	-
DATE: 10/18/2023				F	-
SIZE C				E	-
SCALE 1:6	WEIGHT (LBS) 31.25	DRAWING NUMBER CALYPS0-01-00	SHEET 1/1	D	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				C	-
				B	-
				A	-



Isometric view  
Scale: 1:10



Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	Fuselage Shell	-	1
2	Composite Spine	-	1
3	Wing Spar Box	-	1
4	Payload Bay Door	-	2
5	Electronics Bay Bulkhead	-	2
6	Electronics Bay Floor	-	1
7	Electronics Bay Door	-	1

DESIGNED BY:  
Project Calypso

DATE:  
10/18/2023

CHECKED BY:  
Tyler Phillips

DATE:  
10/18/2023

SIZE  
C

SCALE  
1:6

WEIGHT (LB)  
6.5

DRAWING NUMBER  
CALYPS0-01-01

SHEET  
1 / 1

EMBRY-RIDDLE

Aeronautical University

Fuselage Assembly

I

H

G

F

E

D

C

B

A

-

-

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-

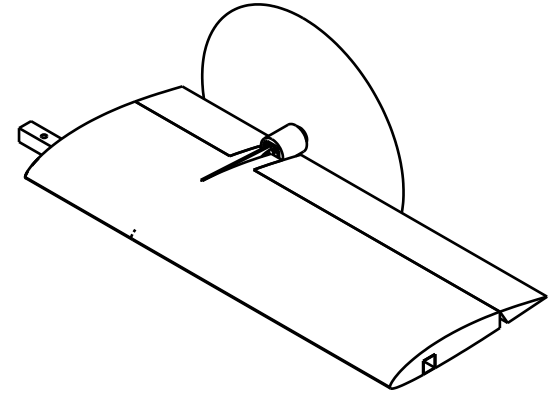
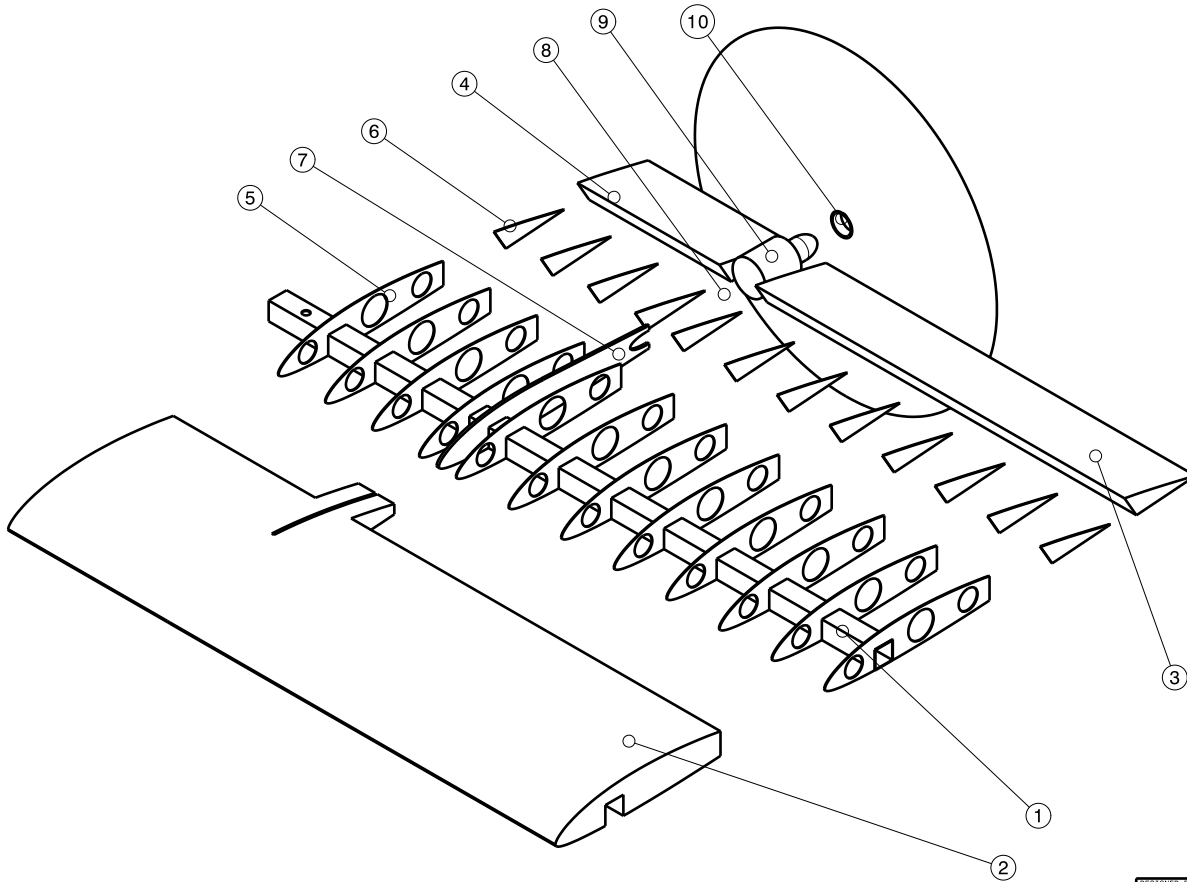
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-

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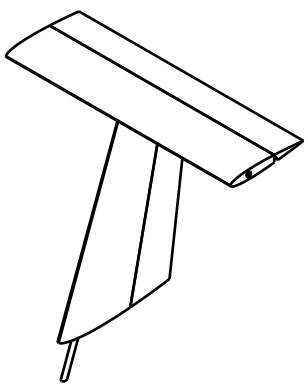
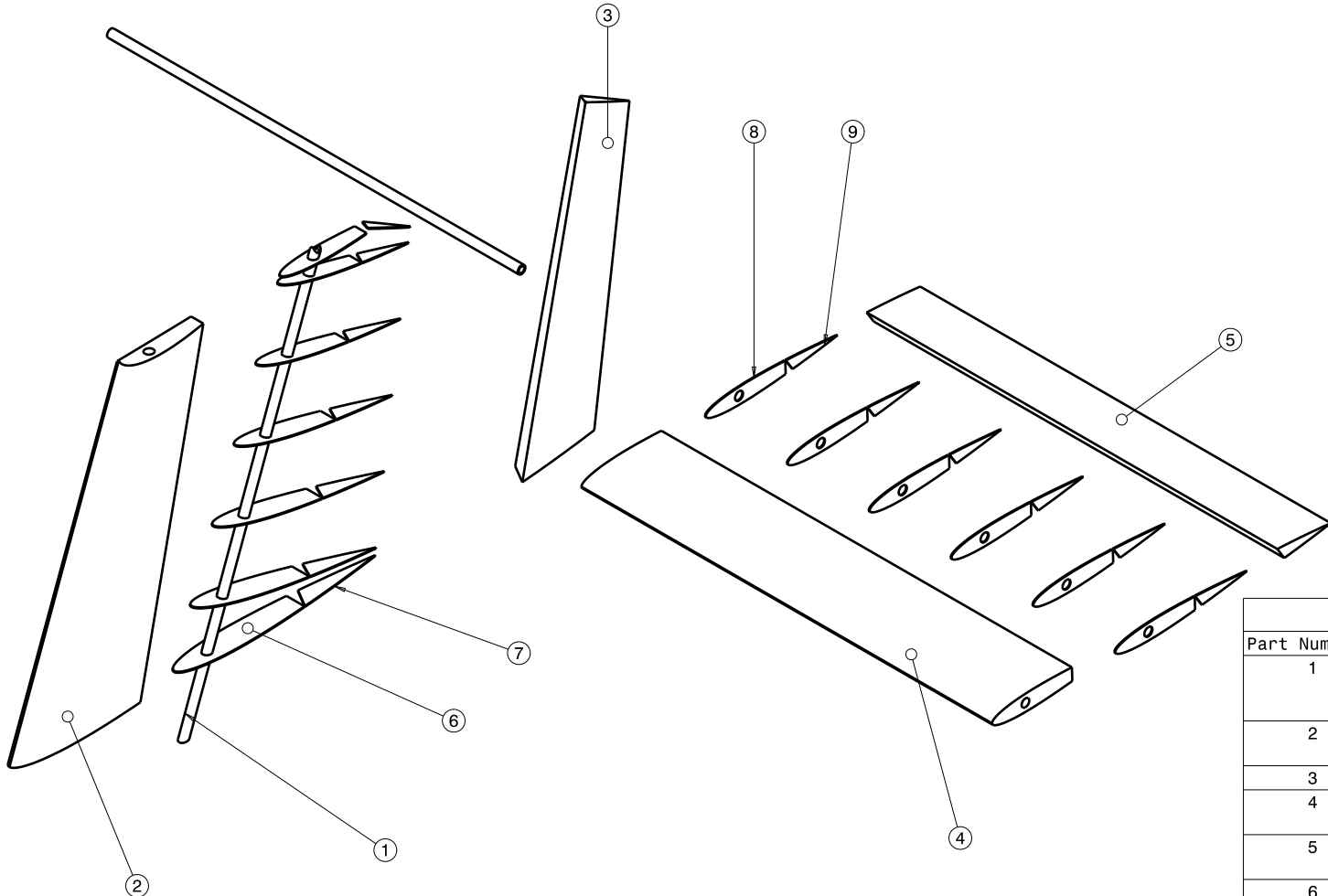
Isometric view  
Scale: 1:6

Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	1.07" Square 0.035" Wall CF Tube	Clearwater Composites	1
2	Wing Shell	-	1
3	Flaperon Shell	-	1
4	Flap Shell	-	1
5	Wing Rib	-	12
6	Flap Rib	-	12
7	Motor Mount Rib	-	1
8	Motor Mount	SunnySky USA	1
9	X4125 V3 480-kV Motor	SunnySky USA	1
10	18x12e Propeller	APC Propellers	1

NOTE: Right wing is a mirror of left.  
Only unique part between wings is the wing shell (2)

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		<b>Wing Assembly</b>		G	-
DATE: 10/18/2023				F	-
SIZE C		DRAWING NUMBER CALYPS0-01-02		E	-
SCALE 1:4	WEIGHT (LB) 3.75			D	-
		SHEET 1/1		C	-
				B	-
				A	-

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Isometric view  
Scale: 1:6

Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	0.375" OD 0.06" Wall 17" CF Tube	Clearwater Composites	2
2	Vertical Tail Shell	-	1
3	Rudder Shell	-	1
4	Horizontal Tail Shell	-	1
5	Elevator Shell	-	1
6	Vertical Tail Rib	-	7
7	Rudder Rib	-	7
8	Horizontal Tail Rib	-	6
9	Elevator Rib	-	6

NOTE: All vertical tail and rudder ribs are unique.  
See drawing CALYPSO-01-0308 for details

DESIGNED BY:  
Project Calypso

DATE:  
10/18/2023

CHECKED BY:  
Tyler Phillips

DATE:  
10/18/2023

SIZE  
C

SCALE  
1:3

WEIGHT (LBS)  
1.55

DRAWING NUMBER  
CALYPSO-01-03

SHEET  
1 / 1

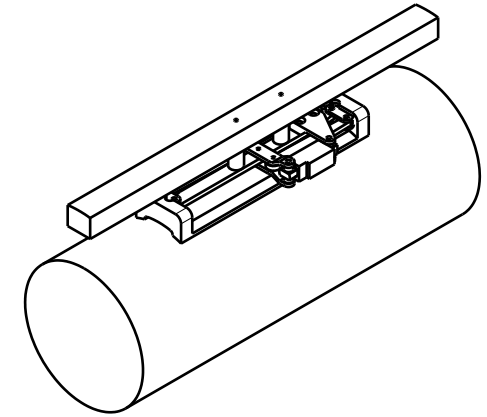
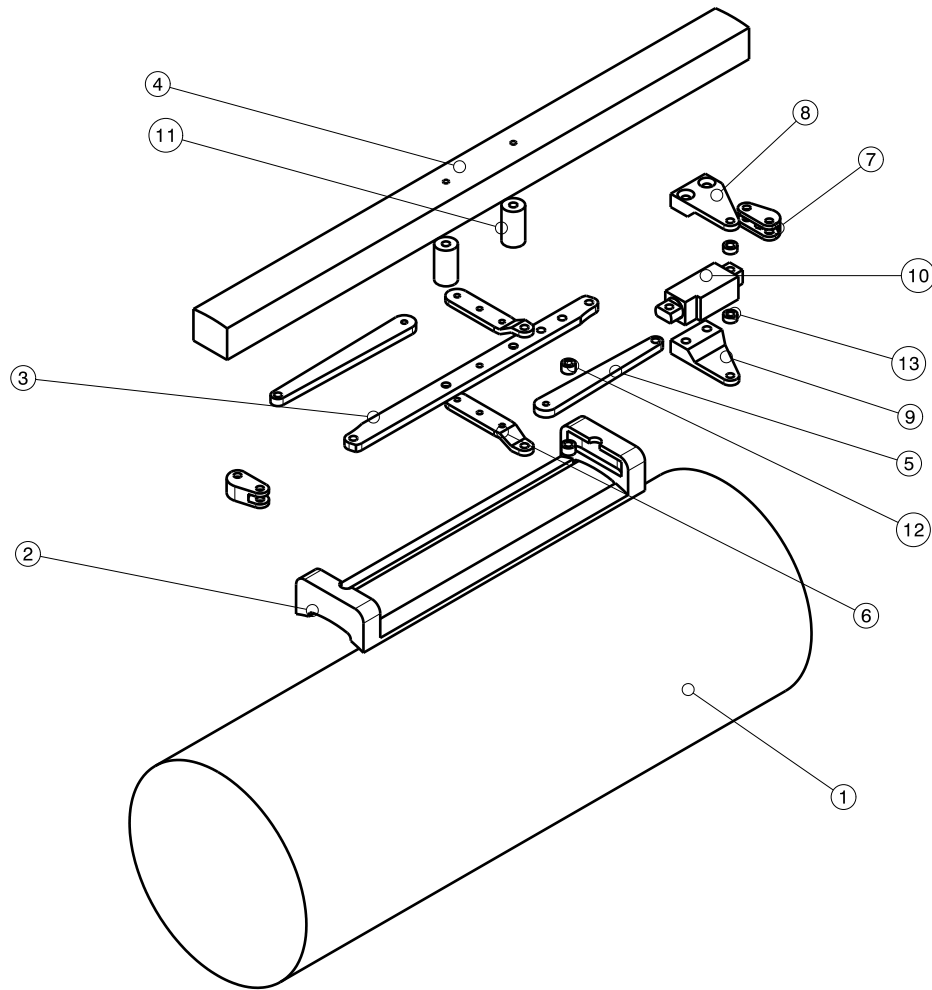
EMBRY-RIDDLE  
Aeronautical University

Empennage Assembly

I  
H  
G  
F  
E  
D  
C  
B  
A

-  
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-

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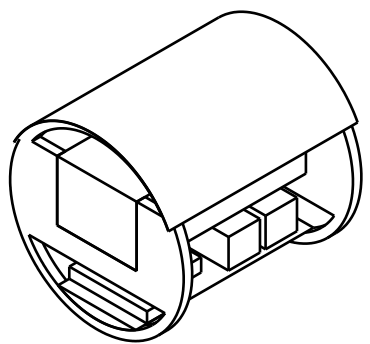
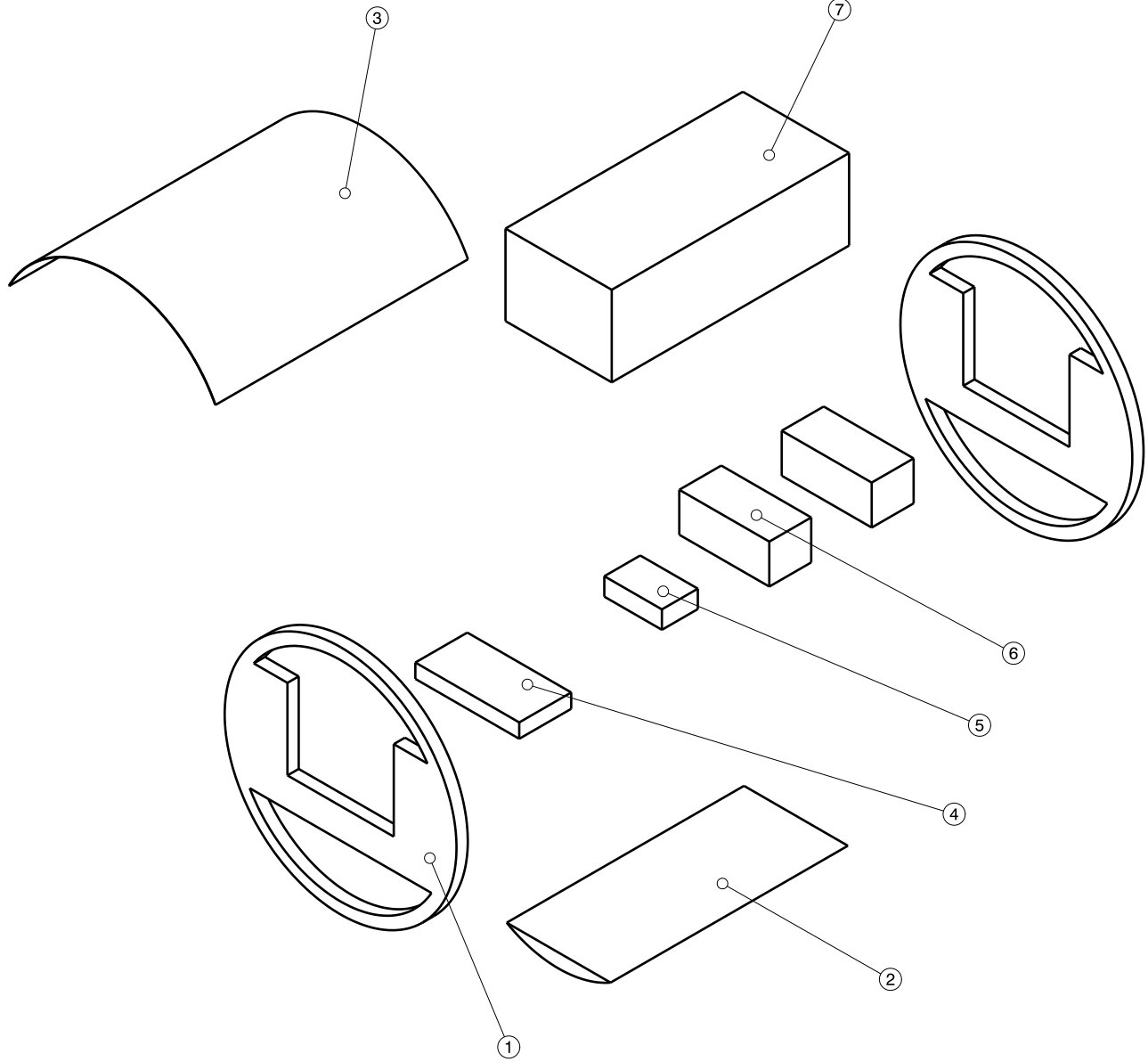


Isometric view  
Scale: 1:3

### Bill of Materials

Part Number	Part Name	Manufacturer	Quantity
1	Life Raft	RFP Supplier	1
2	Life Raft Bracket	-	1
3	Base Plate	-	1
4	Fuselage Spine	-	1
5	Link	-	2
6	Actuator Arm	-	2
7	Cam	-	2
8	Top Actuator Mount	-	1
9	Bottom Actuator Mount	-	1
10	HLS12-30100 Linear Actuator	HITEC	1
11	0.92" Spacer	-	2
12	0.1875" Spacer	-	2
13	0.13" Spacer	-	2

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Whole Aircraft Assembly		G	-
DATE: 10/18/2023				F	-
SIZE C		DRAWING NUMBER CALYPSO-01-04		E	-
SCALE 1:2	WEIGHT (LBS) 5.32	SHEET 1/1		D	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				C	-
				B	-
				A	-



Isometric view  
Scale: 1:3

Bill of Materials			
Part Number	Part Name	Manufacturer	Quantity
1	Electronics Bay Bulhead	-	2
2	Electronics Bay Floor	-	1
3	Electronics Bay Door	-	1
4	Pixhawk 4	-	1
5	Micro Data Link System	COMMTACT	1
6	Avian 120A ESC	Spektrum	2
7	30,000 mAh 6S Battery	LiperiAir	1

DESIGNED BY:  
Project Calypso

DATE:  
10/18/2023

CHECKED BY:  
Tyler Phillips

DATE:  
10/18/2023

SIZE  
C

SCALE  
1:2

WEIGHT (LBS)  
7.52

DRAWING NUMBER  
CALYPS0-01-05

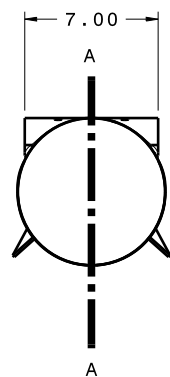
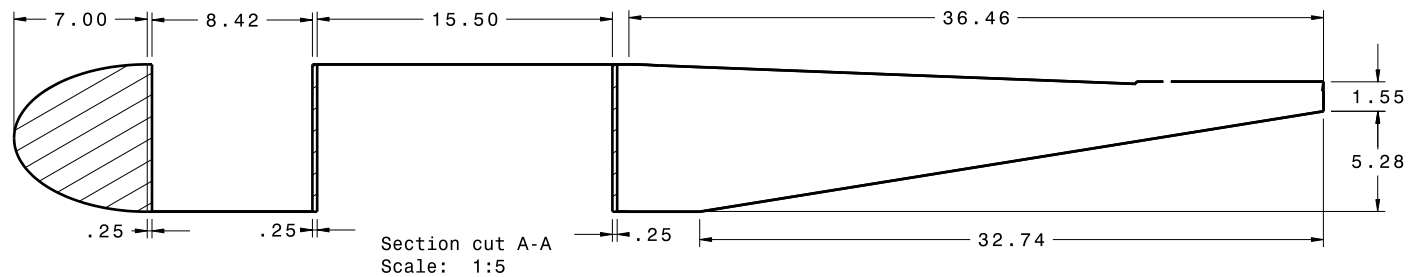
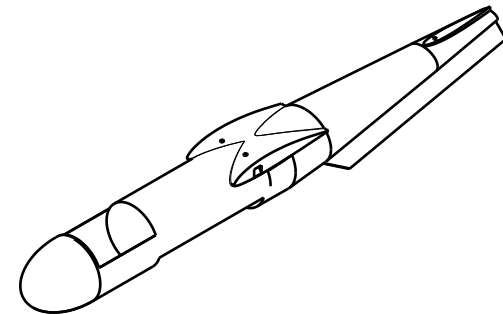
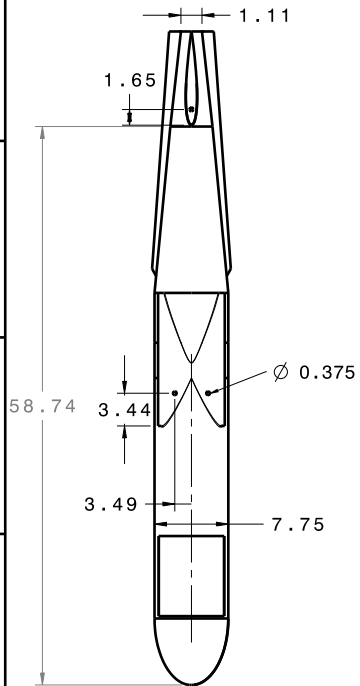
SHEET  
1 / 1

EMBRY-RIDDLE  
Aeronautical University

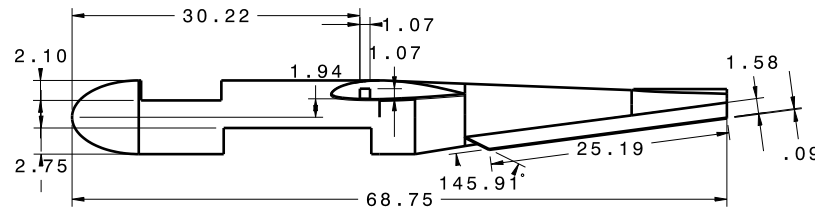
Electronics Bay Assembly

I	-
H	-
G	-
F	-
E	-
D	-
C	-
B	-
A	-

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


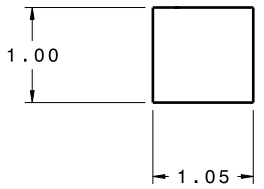
Front view  
Scale: 1:5



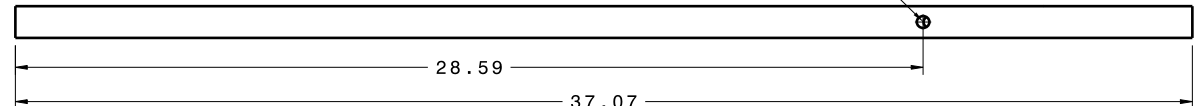
Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

Composite Layups:  
 Skin: [0F] 2x2 Twill CF  
 Bulkheads: [0F/45F/0F/Core]s 2x2 Twill CF and 0.2" Nomex Honeycomb

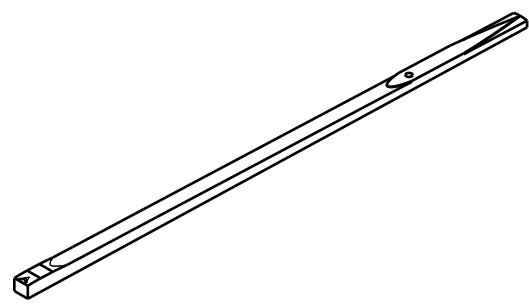
DESIGNED BY: Project Calypso				I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips				G	-
DATE: 10/18/2023				F	-
SIZE C	Fuselage Shell			E	-
SCALE				WEIGHT (kg)	D
1:10	3.12	DRAWING NUMBER CALYPSO-01-0101		C	-
				B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-



Front view  
Scale: 1:1



Right view  
Scale: 1:3



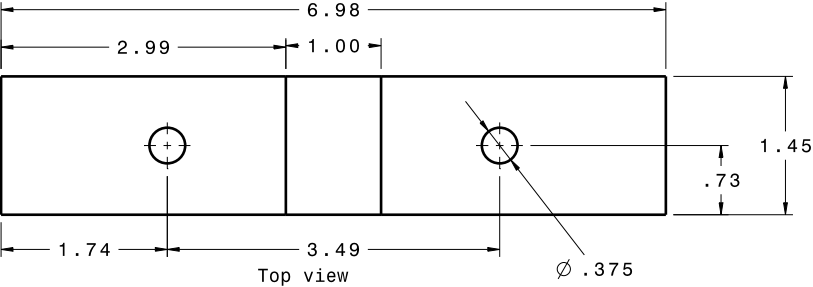
Isometric view  
Scale: 1:5

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

Layup:  
[0F/45F/0F/45F/Core]s 2x2 Twill CF and 0.875" Nomex Honeycomb

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Fuselage Shell		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0102		E	-
SCALE 1:5	WEIGHT (kg) 1.44			D	-
DRAWING NUMBER		SHEET		C	-
1:5		1 / 1		B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-

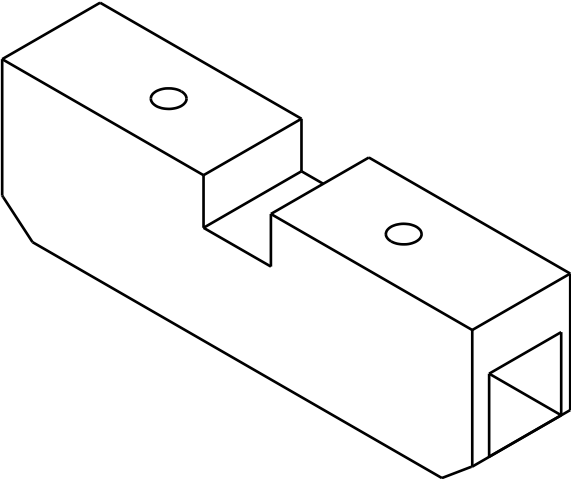




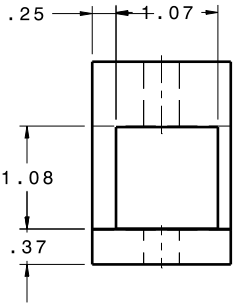
Top view



Front View




Isometric view

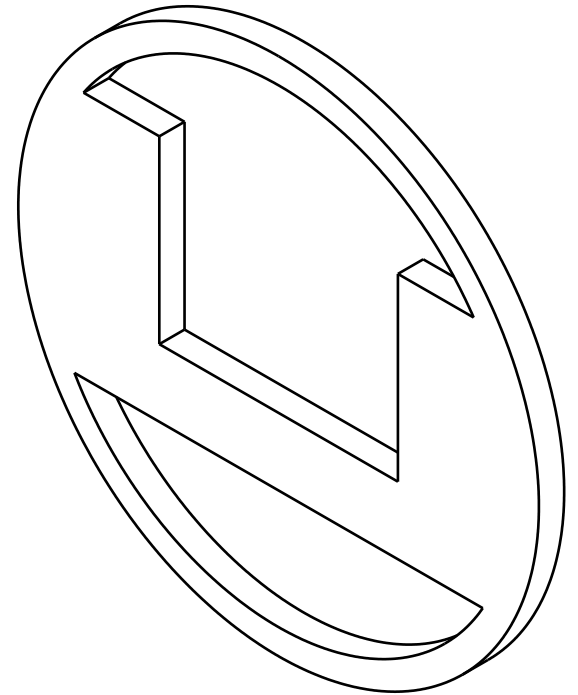
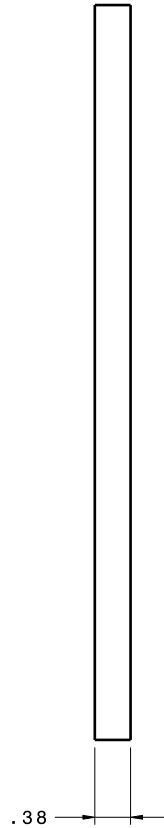
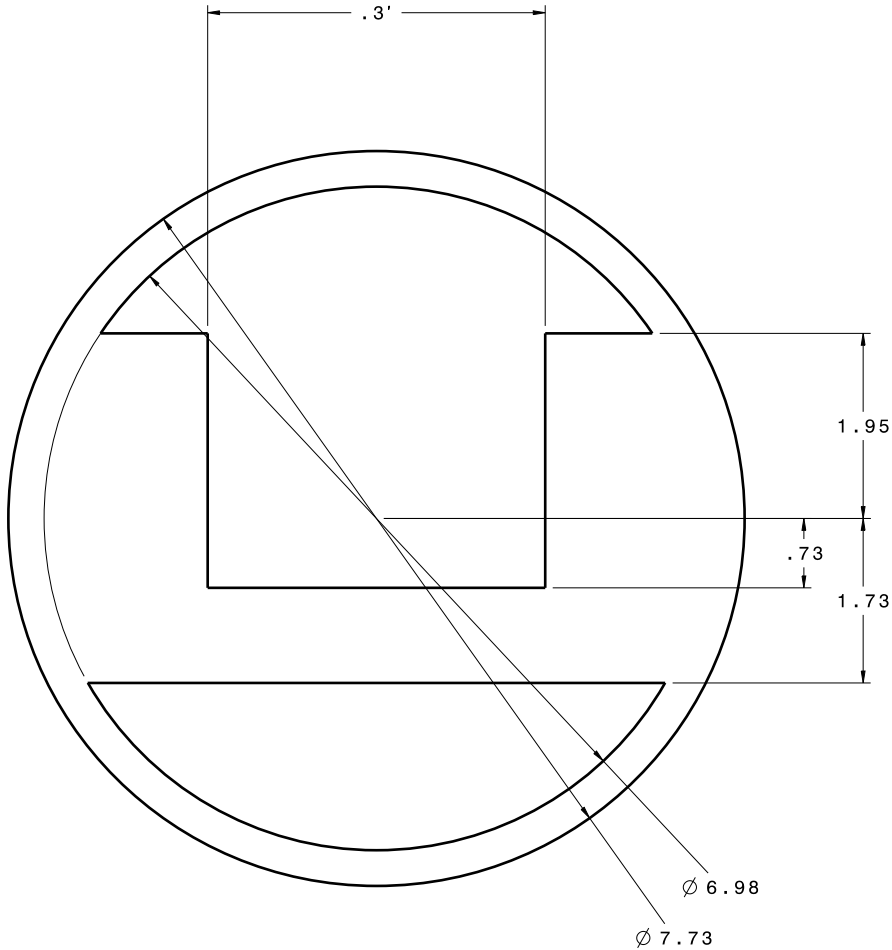


Right view

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

Aluminum 6061

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Wing Spar Box		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0103		E	-
SCALE 1:1	WEIGHT (kg) 1.19			D	-
DRAWING NUMBER 1:1		1 / 1		C	-
				B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-

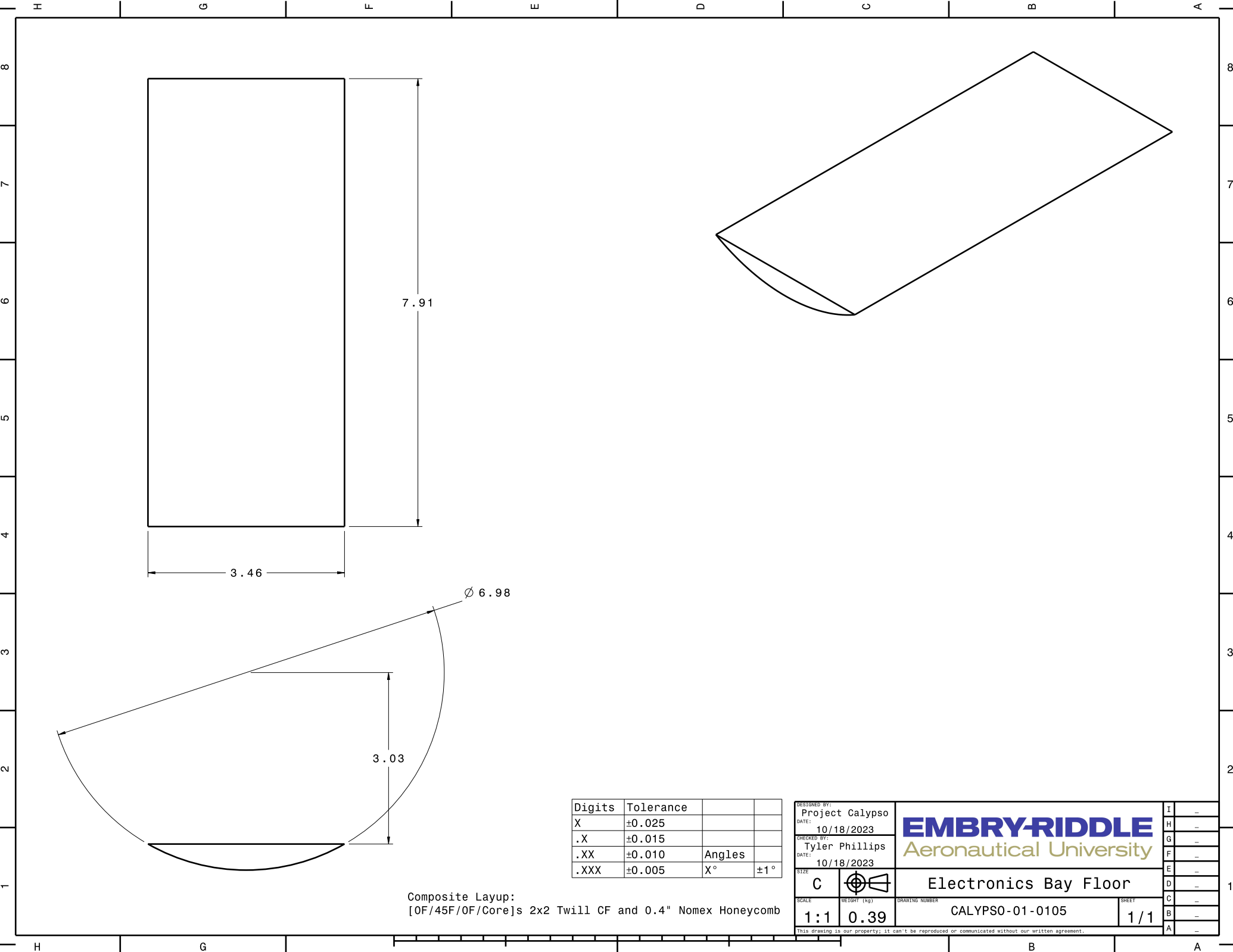


Isometric view

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°


Composite Layup:  
[0F/45F/0F/Core]s 2x2 Twill CF and 0.2" Nomex Honeycomb

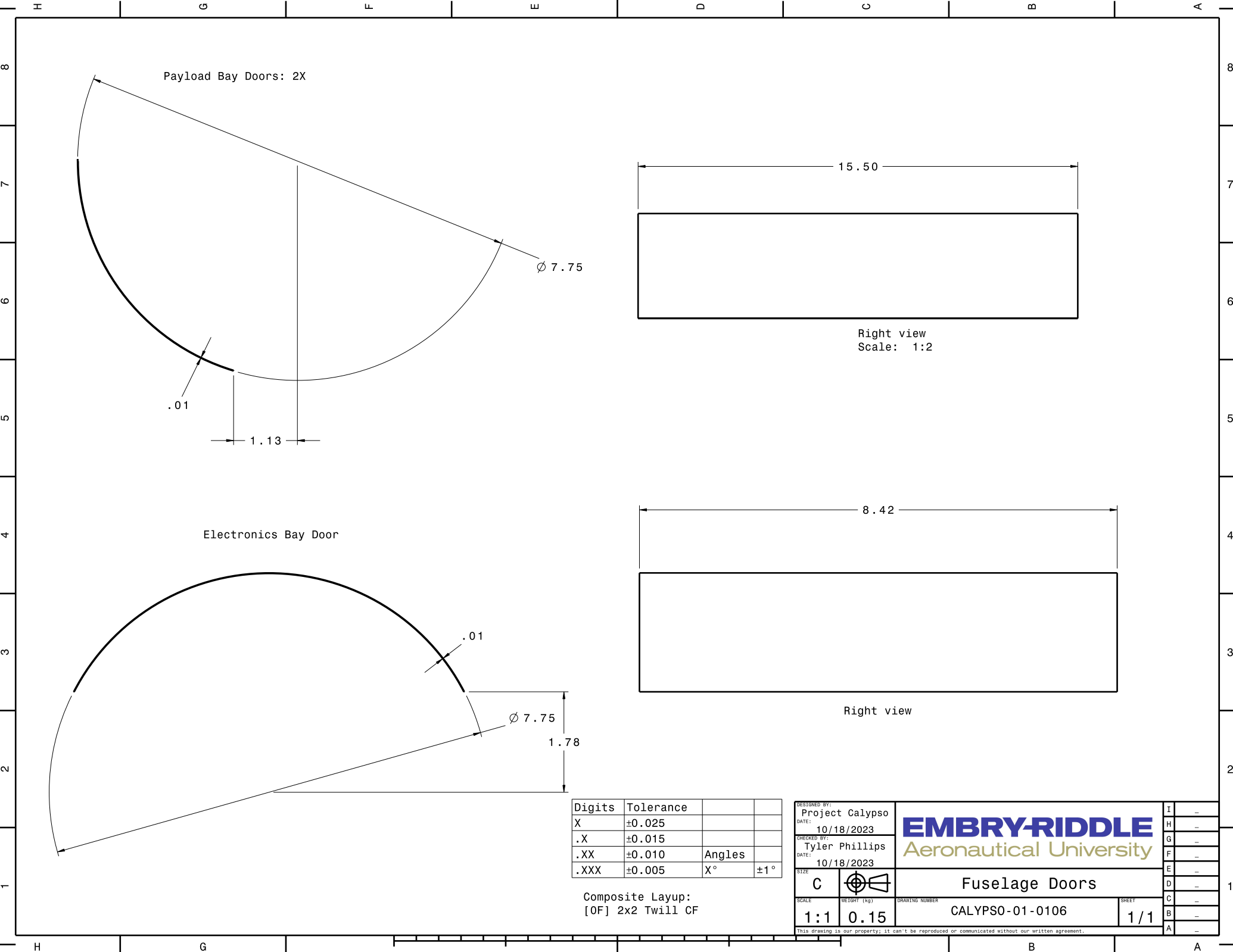
DESIGNED BY: Project Calypso			<b>EMBRY-RIDDLE</b> Aeronautical University	I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips				G	-
DATE: 10/18/2023				F	-
SIZE C		Electronics Bay Bulkhead		E	-
SCALE 1:1	WEIGHT (kg) 0.51			D	-
DRAWING NUMBER CALYPSO-01-0104				C	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.			B	-	
			A	-	
1/1					



Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

Composite Layup:  
[0F/45F/0F/Core]s 2x2 Twill CF and 0.4" Nomex Honeycomb

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips				G	-
DATE: 10/18/2023		Electronics Bay Floor		F	-
SIZE C				E	-
SCALE 1:1	WEIGHT (kg) 0.39			D	-
DRAWING NUMBER CALYPSO-01-0105		SHEET 1/1		C	-
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				A	-



Payload Bay Doors: 2X

Ø 7.75

.01

1.13

Electronics Bay Door

.01

Ø 7.75

1.78

15.50


Right view  
Scale: 1:2

8.42

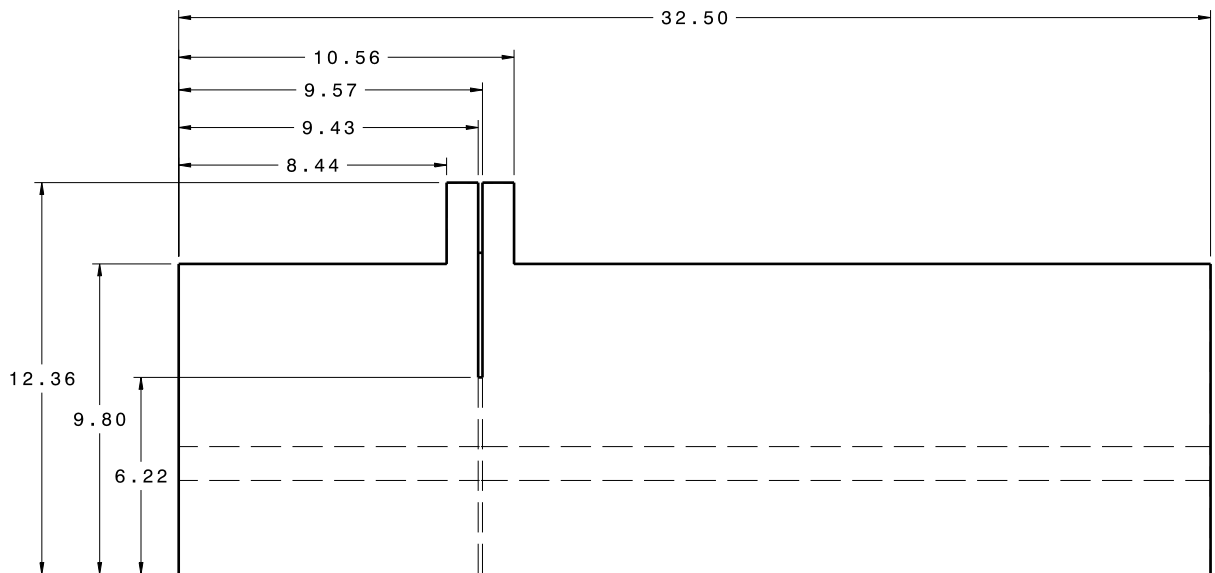
Right view

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

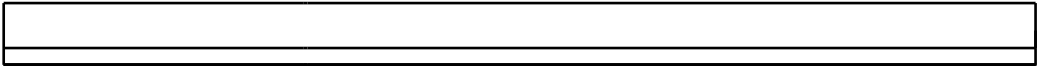
Composite Layup:  
[OF] 2x2 Twill CF

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-		
DATE: 10/18/2023				H	-		
CHECKED BY: Tyler Phillips				G	-		
DATE: 10/18/2023				F	-		
SIZE		Fuselage Doors		E	-		
C				D	-		
SCALE	WEIGHT (kg) 0.15	DRAWING NUMBER CALYPSO-01-0106	SHEET 1/1	C	-		
1:1				B	-		
						A	-
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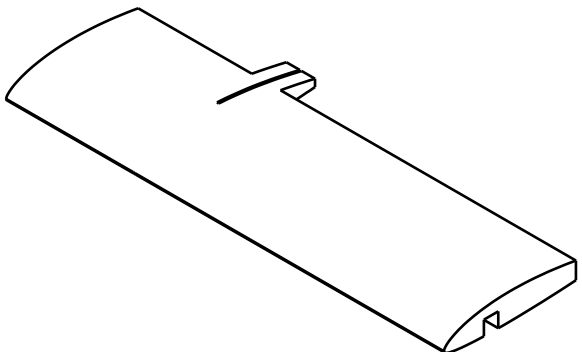
**EMBRY-RIDDLE**  
Aeronautical University



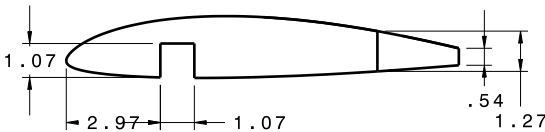
Top view



Front view



Isometric view  
Scale: 1:5

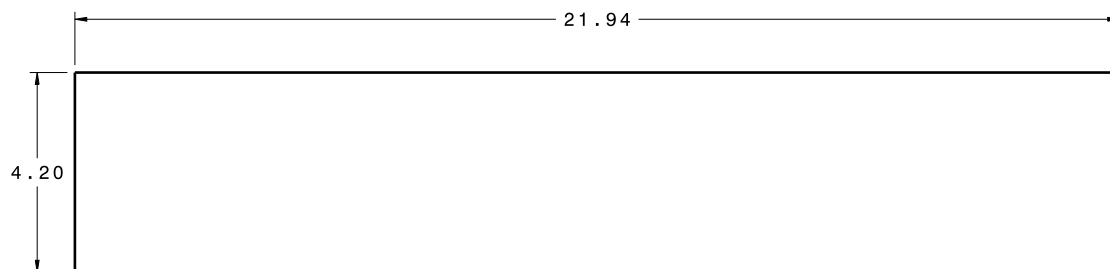


Right view

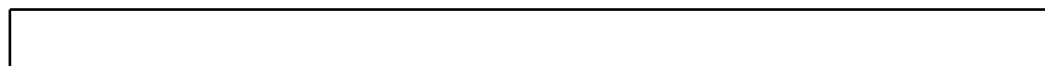
Right skin is mirror of left, all dimensions otherwise identical  
MRC-16 Profile, 14" Chord  
Skin Thickness: 0.01"  
Layup:  
[0F]s 2x2 CF Twill

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

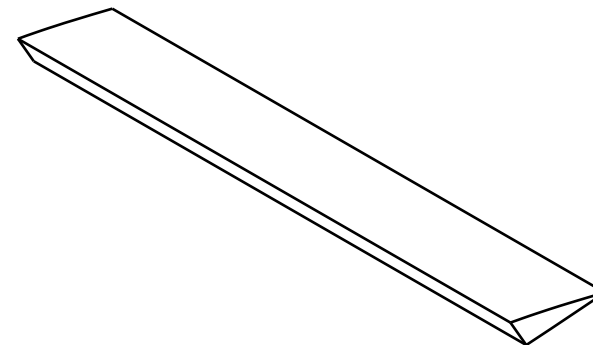
DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Wing Skin (Left)		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0201		E	-
SCALE 1:3	WEIGHT (LB) 0.02			D	-
		1 / 1		C	-
				B	-
				A	-
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Top view



Front view



Isometric view  
Scale: 1:3

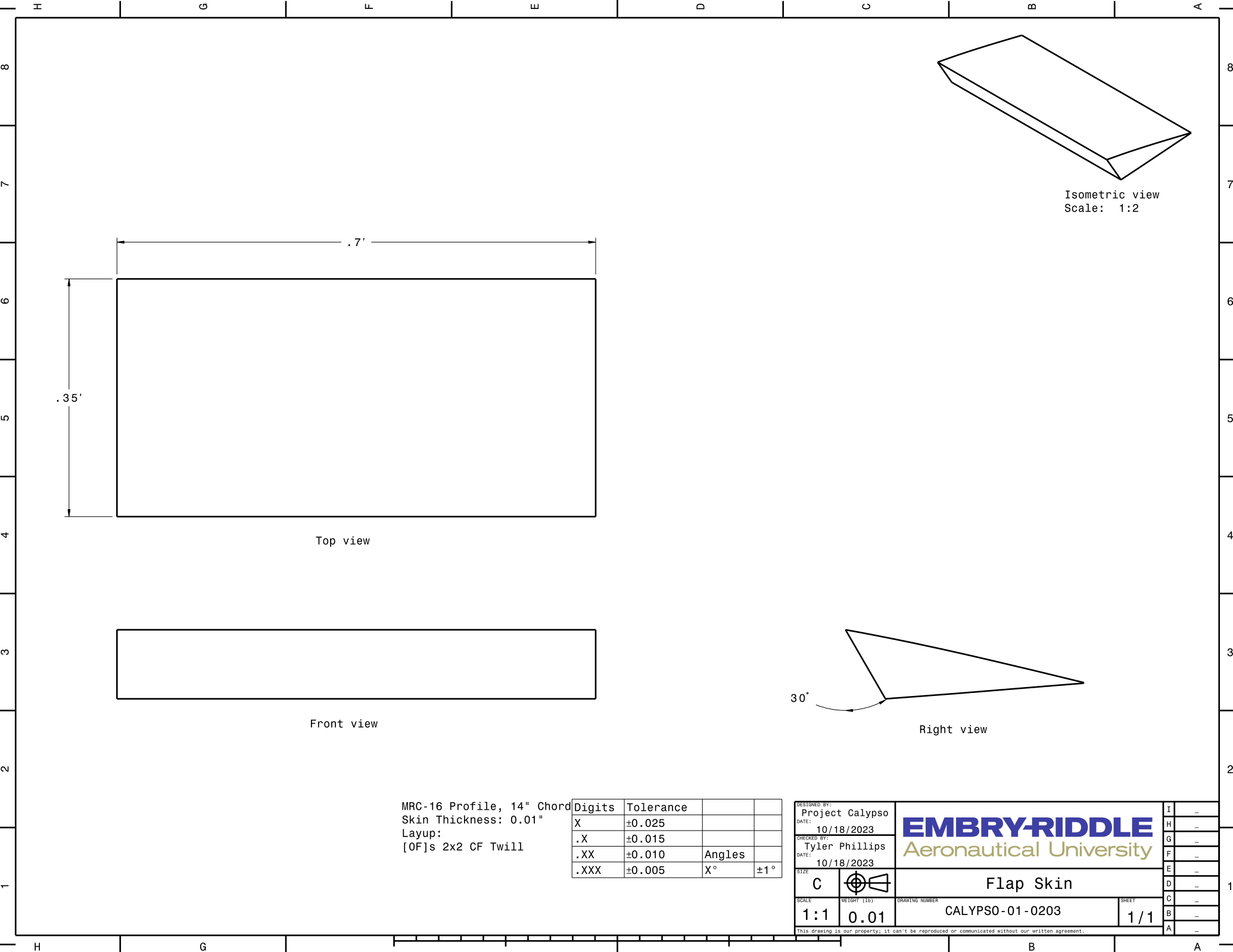


Right view

MRC-16 Profile, 14" Chord  
Skin Thickness: 0.01"  
Layup:  
[0F]s 2x2 CF Twill

Digits	Tolerance		
X	$\pm 0.025$		
.X	$\pm 0.015$		
.XX	$\pm 0.010$	Angles	
.XXX	$\pm 0.005$	X°	$\pm 1^\circ$

DESIGNED BY: Project Calypso				I	—
DATE: 10/10/2023				H	—
CHECKED BY: Tyler Phillips				G	—
DATE: 10/18/2023				F	—
SIZE: C				E	—
				D	—
SCALE: 1:2		DRAWING NUMBER: CALYPSO-01-0202		C	—
WEIGHT (LBS): 0.01		SHEET: 1/1		B	—
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MRC-16 Profile, 14" Chord  
Skin Thickness: 0.01"  
Layup:  
[0F]s 2x2 CF Twill

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

Project Calypso

10/18/2023

Tyler Phillips

10/18/2023

C

1:1

0.01

Flap Skin

CALYPS0-01-0203

1 / 1

EMBRY-RIDDLE

Aeronautical University

I -

H -

G -

F -

E -

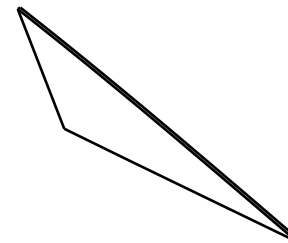
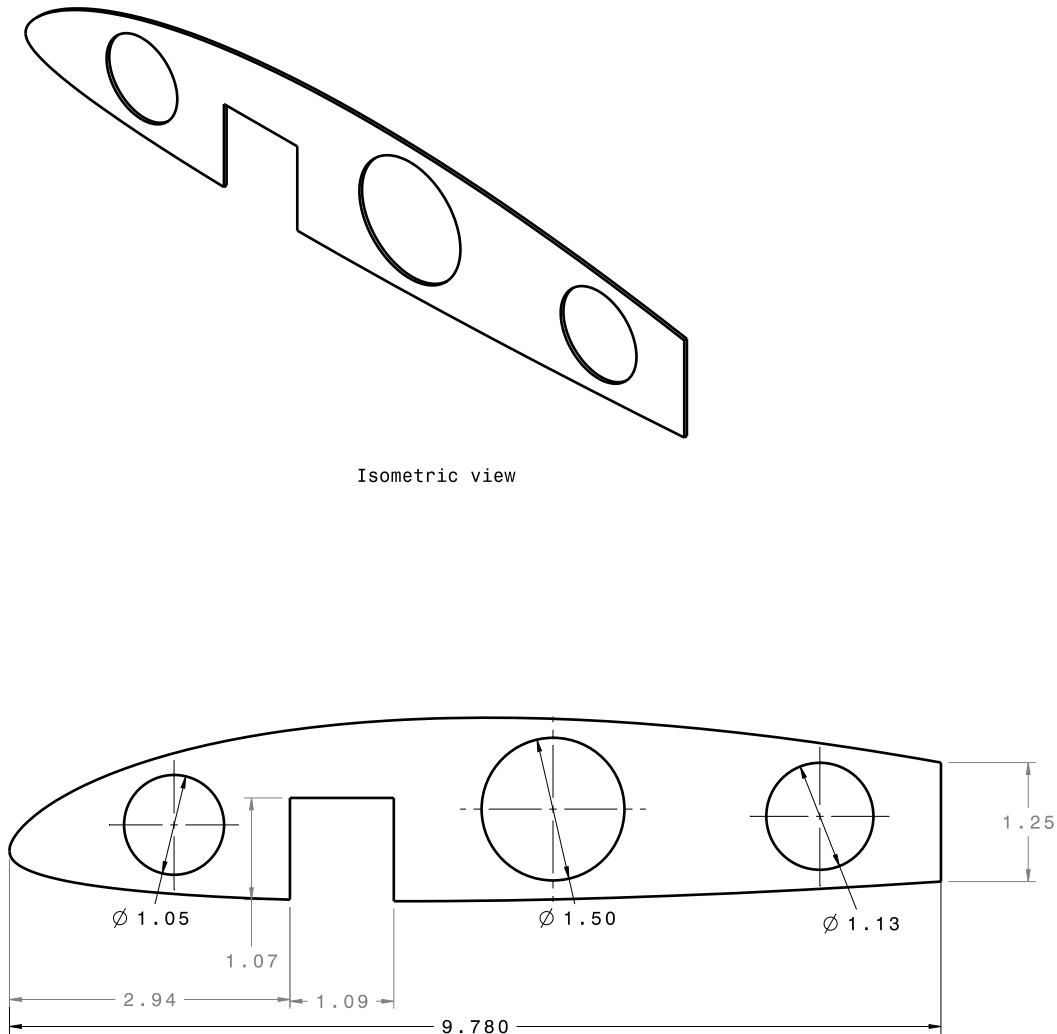
D -

C -

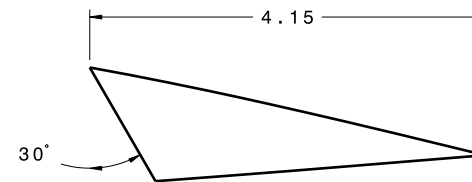
B -

A -

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Isometric view



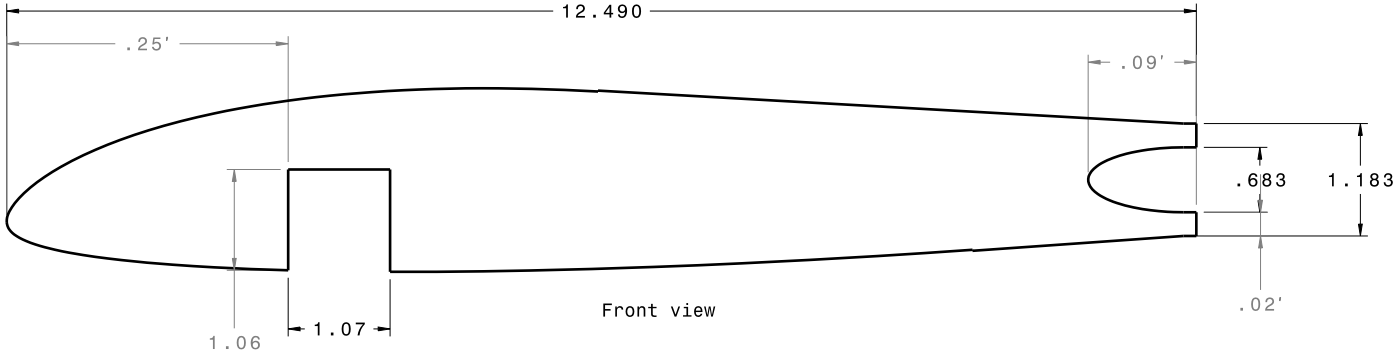
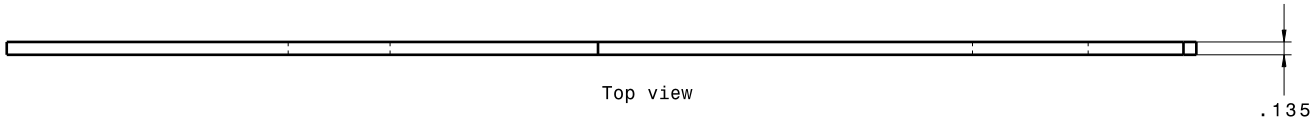
Right view

MRC-16 Profile, 14" Chord  
Layup:  
[0F/45F]s 2x2 Twill CF  
Rib Thickness: 0.04"  
Rib Spacing(Inboard of Motor): 2.75" on center  
Rib Spacing(Outboard of Motor): 3.125" on center

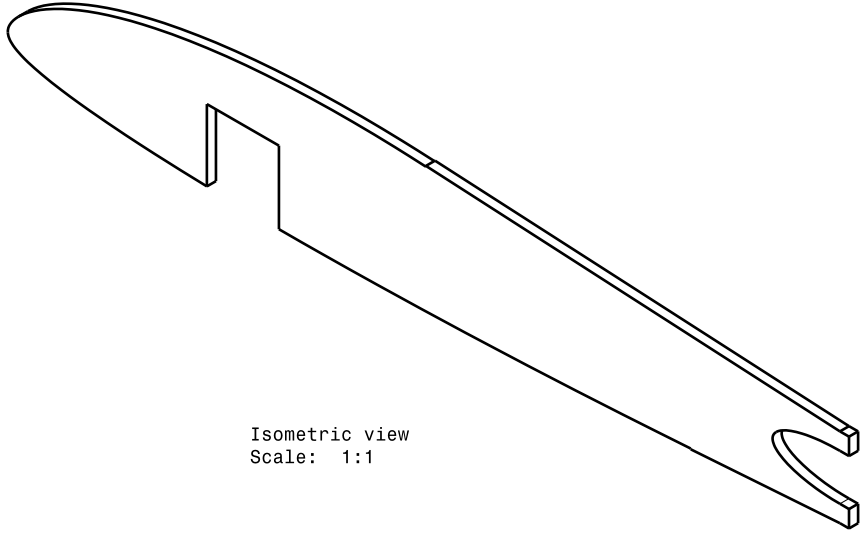
Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	—
DATE: 10/18/2023				H	—
CHECKED BY: Tyler Phillips		Wing Rib		G	—
DATE: 10/18/2023				F	—
SIZE C		CALYPSO-01-0204		E	—
SCALE 1:1	WEIGHT (LB) 0.05			D	—
		1 / 1		C	—
				B	—
This drawing is our property; it can't be reproduced or communicated without our written agreement.					






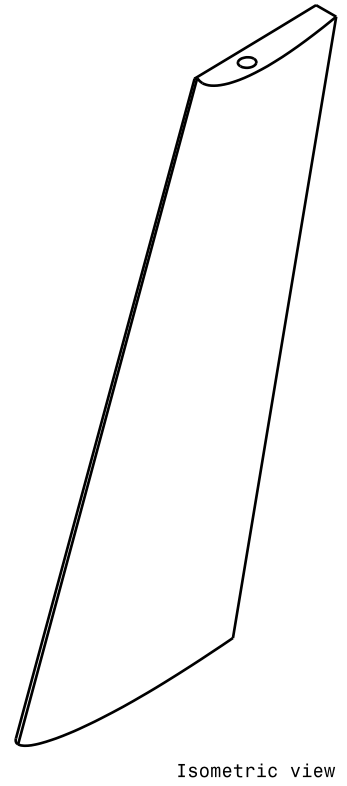
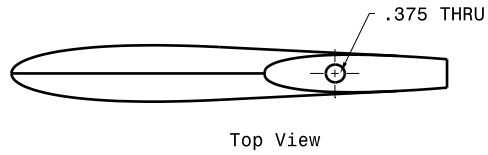
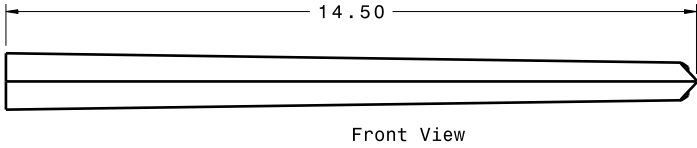
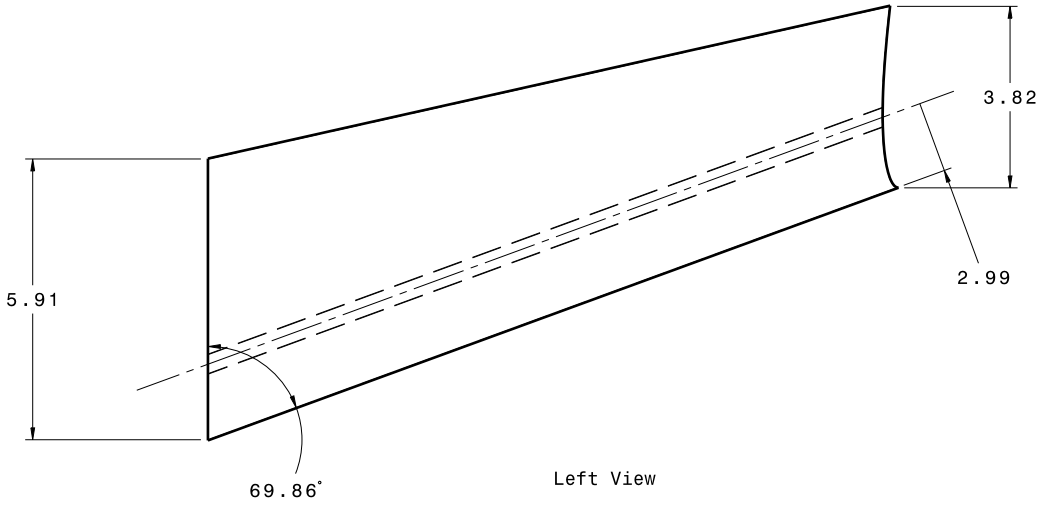
Isometric view  
Scale: 1:1



MRC-16 Profile, 14" Chord  
Material:  
Aluminum 6061


Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Motor Mount Rib		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPS0-01-0205		E	-
SCALE 1:1	WEIGHT (LB) 0.235			D	-
DRAWING NUMBER 1:1		1/1		C	-
				B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-

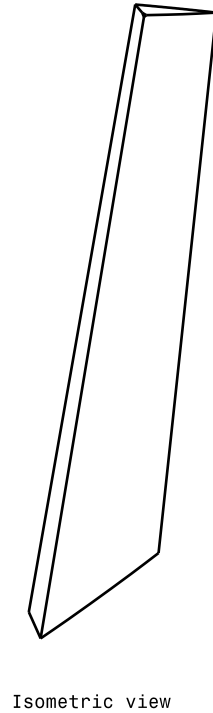
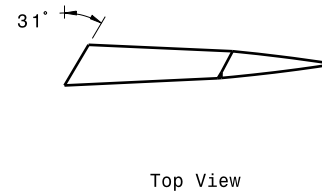
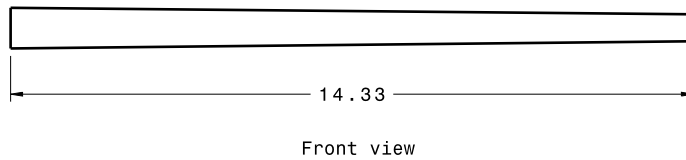
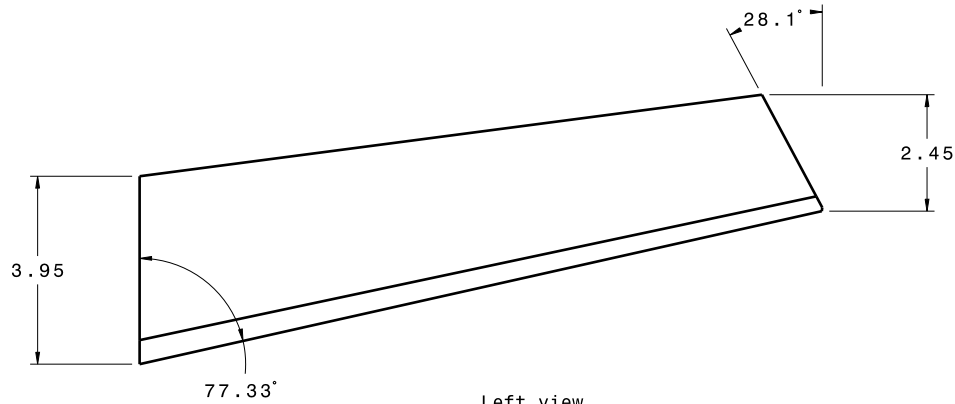


NACA 0012 Profile, 10" Root Chord, 6.5" Tip Chord  
Skin Thickness: 0.01"  
Layup:  
[0F]s 2x2 CF Twill

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Vertical Tail Skin		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0301		E	-
SCALE 1:2	WEIGHT (LB) 0.02			D	-
		1 / 1		C	-
				B	-
				A	-

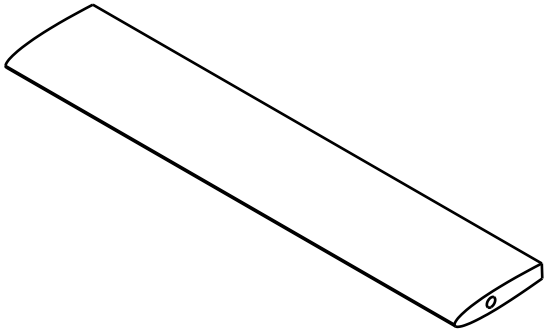
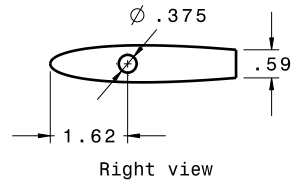
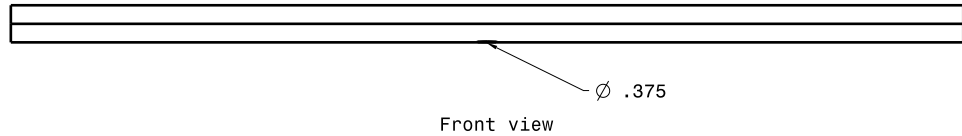
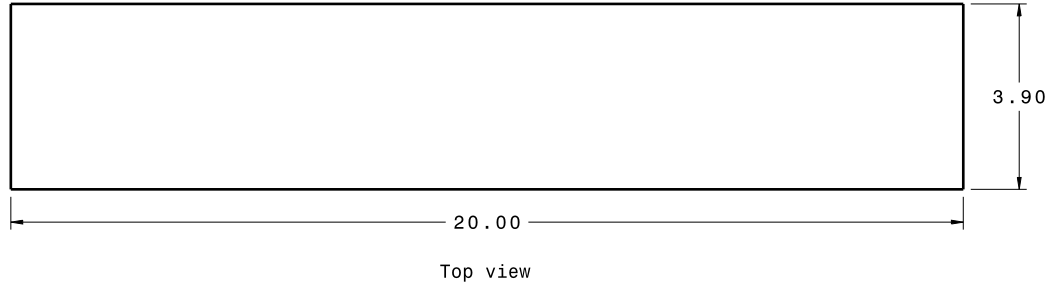
This drawing is our property; it can't be reproduced or communicated without our written agreement.



NACA 0012 Profile, 10" Root Chord, 6.5" Tip Chord  
Skin Thickness: 0.01"  
Layup:  
[0F]s 2x2 CF Twill

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Rudder Skin		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0302		E	-
SCALE 1:2	WEIGHT (LB) 0.01			D	-
DRAWING NUMBER 1 / 1		SHEET 1 / 1		C	-
				B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-

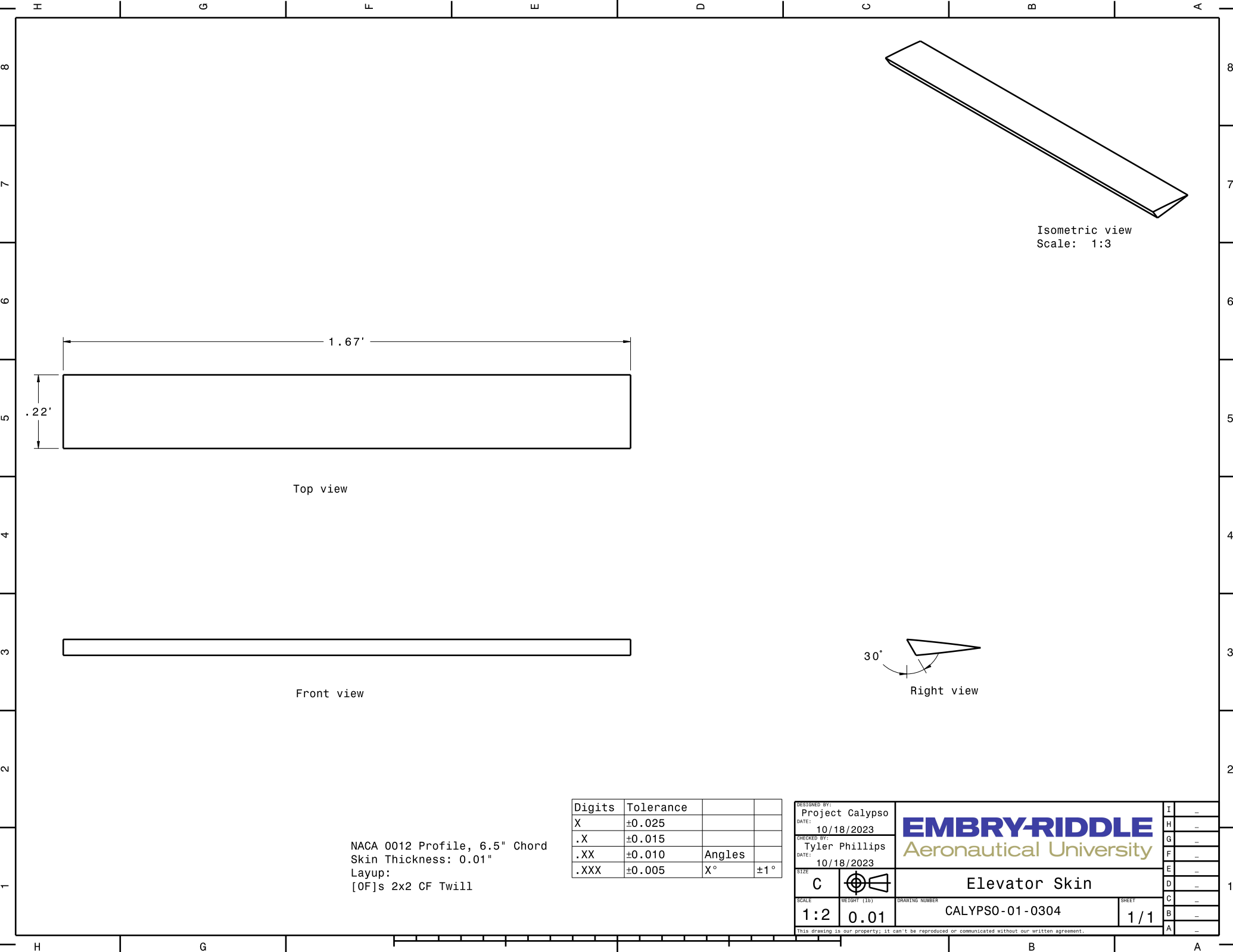


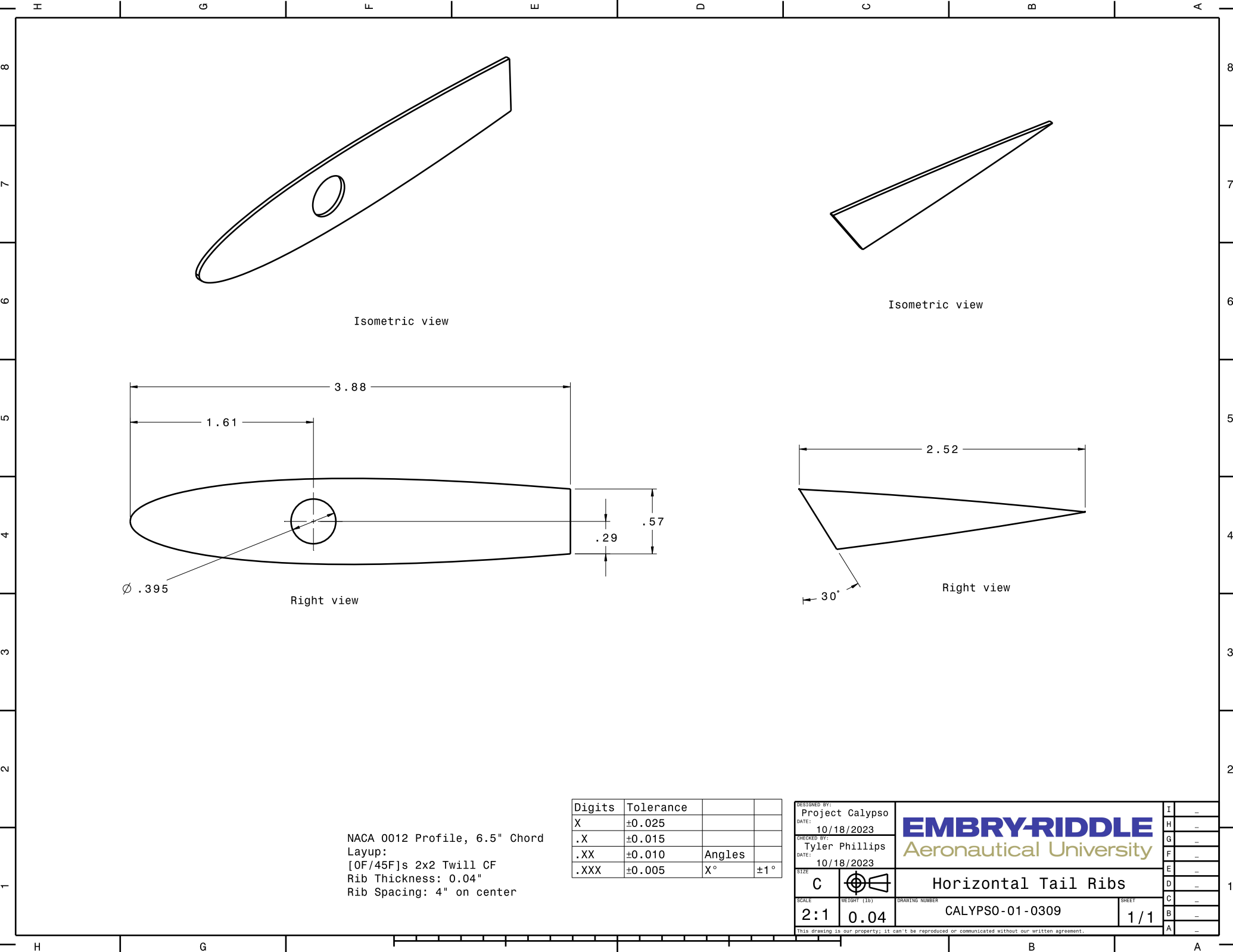
Isometric view  
Scale: 1:3

NACA 0012 Profile, 6.5" Chord  
Skin Thickness: 0.01"  
Layup:  
[0F]s 2x2 CF Twill

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Horizontal Tail Skin		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0303		E	-
SCALE 1:2	WEIGHT (LB) 0.02			D	-
DRAWING NUMBER 1 / 1				C	-
				B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-

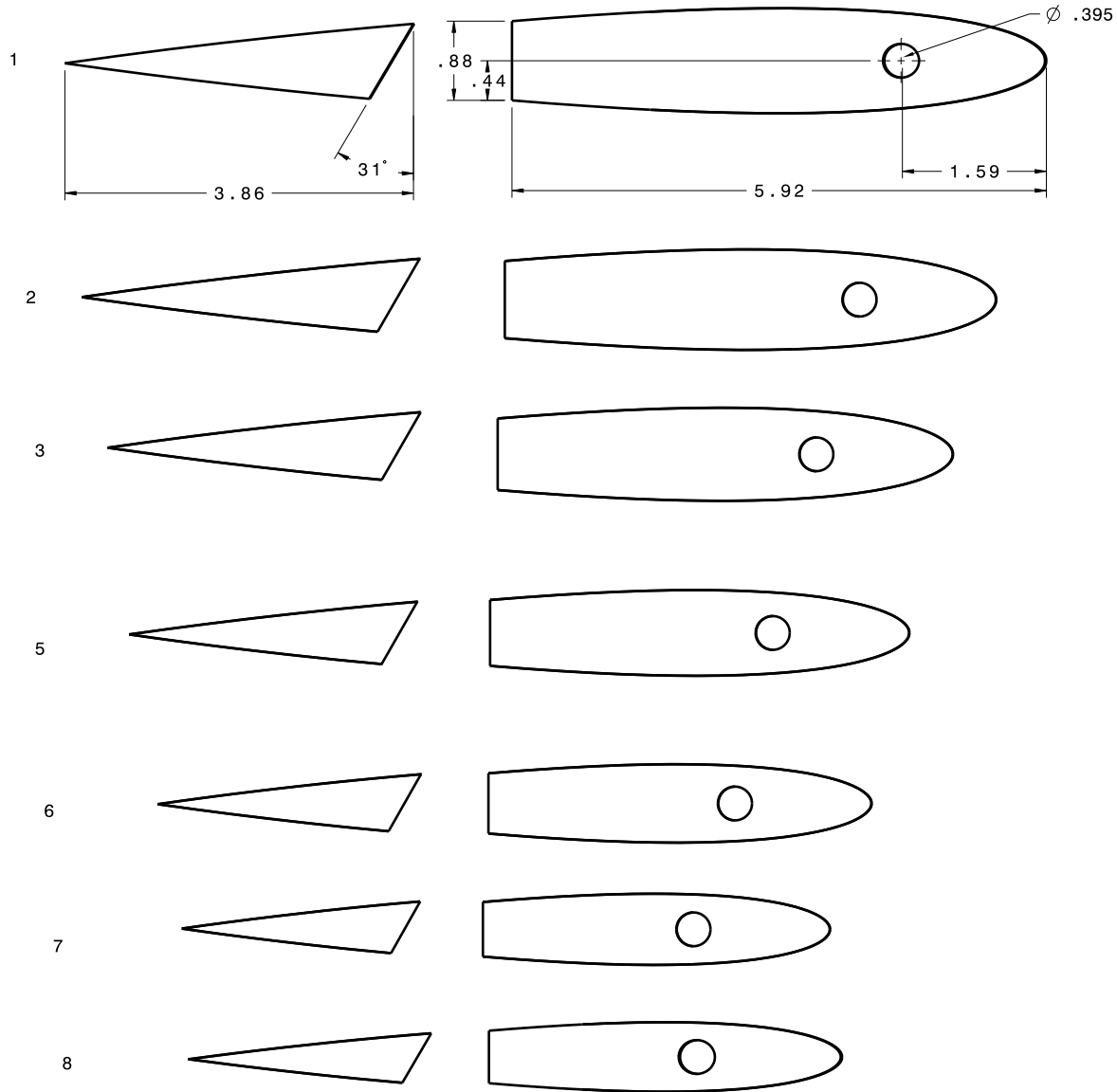




NACA 0012 Profile, 6.5" Chord  
Layup:  
[0F/45F]s 2x2 Twill CF  
Rib Thickness: 0.04"  
Rib Spacing: 4" on center


Digits	Tolerance		
X	$\pm 0.025$		
.X	$\pm 0.015$		
.XX	$\pm 0.010$	Angles	
.XXX	$\pm 0.005$	X°	$\pm 1^\circ$

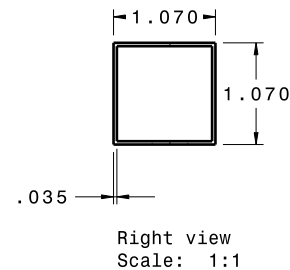
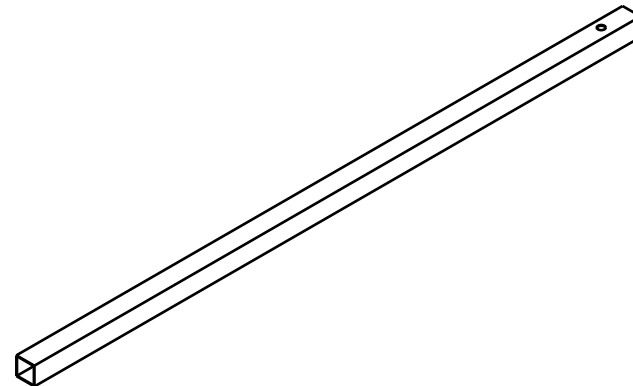
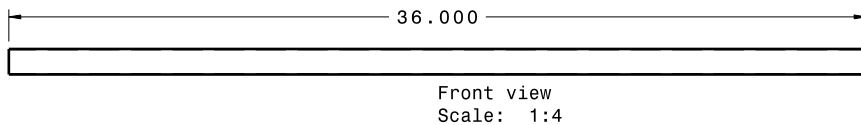
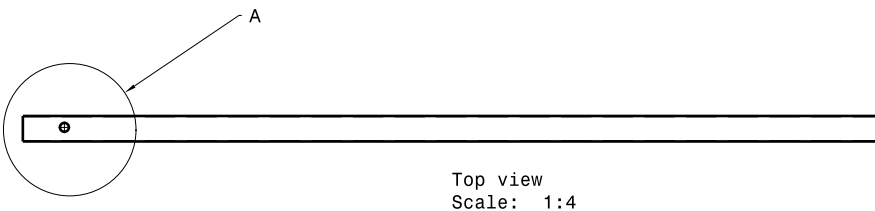
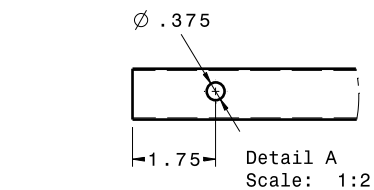
DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Horizontal Tail Ribs		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0309		E	-
SCALE 2:1	WEIGHT (LB) 0.04			D	-
DRAWING NUMBER		SHEET		C	-
1 / 1				B	-
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NACA 0012 Profile, 10" Root Chord, 6.5" Tip Chord  
Layup:  
[0F/45F]s 2x2 Twill CF  
Rib Thickness: 0.04"  
Rib Spacing(2-7): 3" on center  
Rib Stations Numbered from Root to Tip

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

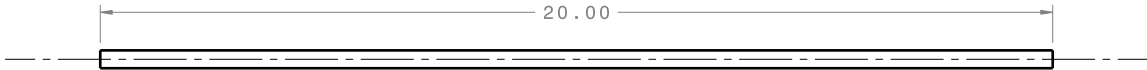
DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips				G	-
DATE: 10/18/2023				F	-
SIZE C		Vertical Tail Ribs		E	-
SCALE 1/1	WEIGHT (LB) 0.08			D	-
DRAWING NUMBER CALYPSO-01-0308		SHEET 1/1		C	-
				B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-



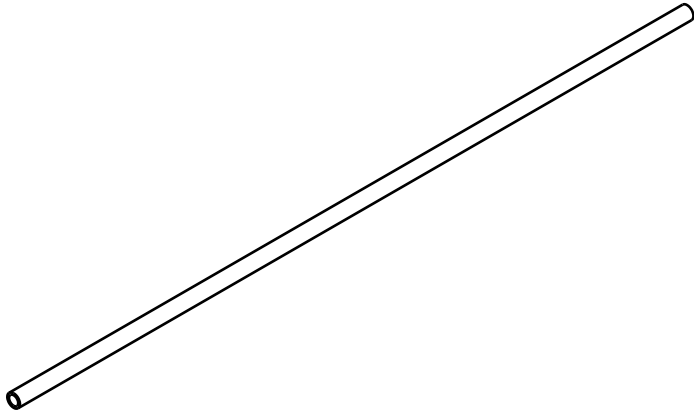
Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Wing Spar		G	-
DATE: 10/18/2023				F	-
SIZE C				E	-
SCALE 1:4	WEIGHT (LB) 0.301	DRAWING NUMBER CALYPSO-01-0204		D	-
		SHEET 1/1		C	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				B	-
				A	-

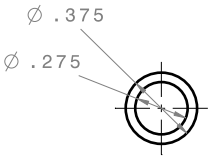




Front View  
Scale: 1:2



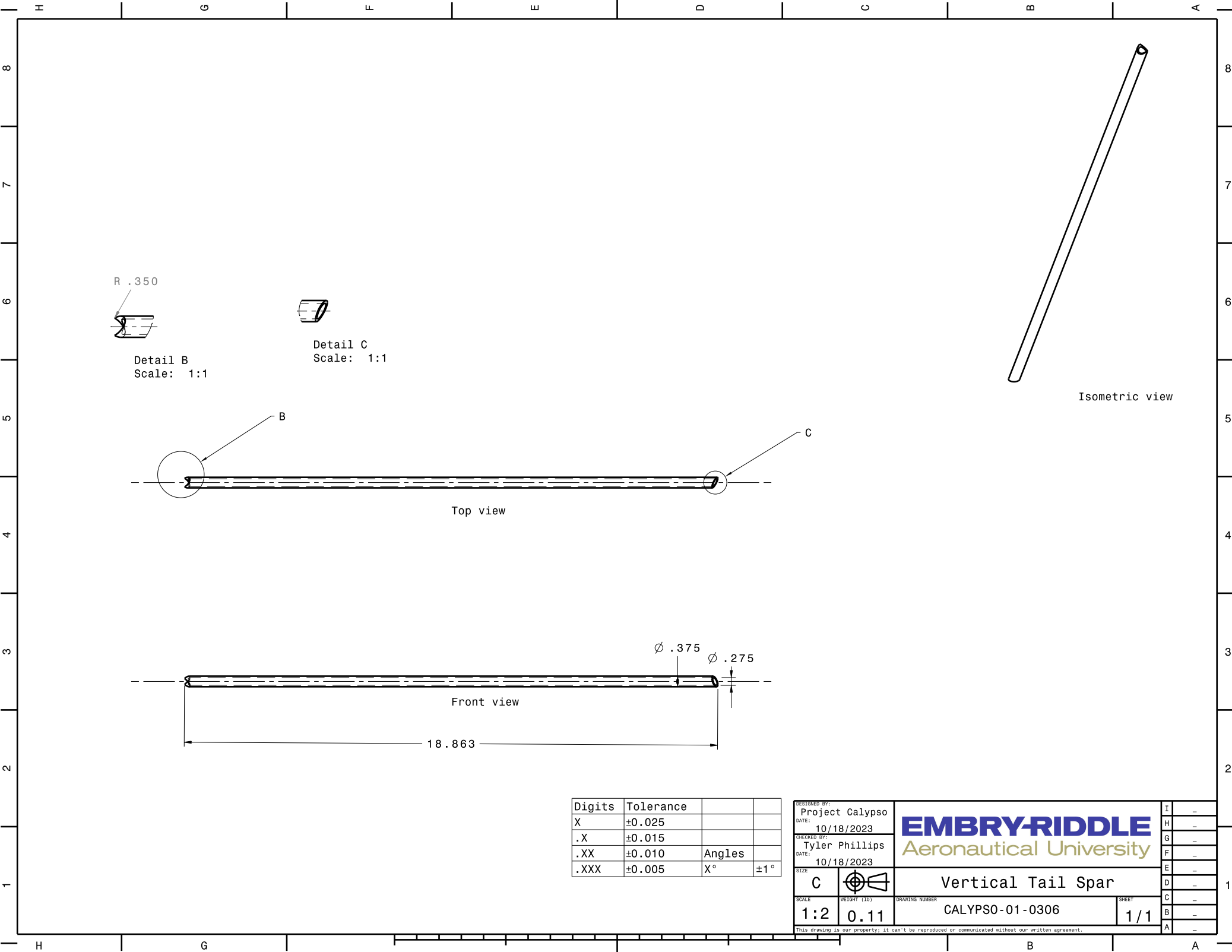
Isometric view  
Scale: 1:2




Left View  
Scale: 2:1

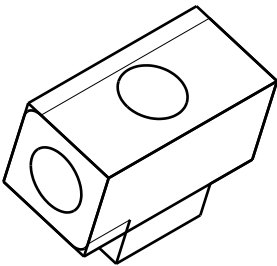
Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Horizontal Tail Spar		G	-
DATE: 10/18/2023				F	-
SIZE C				E	-
SCALE 1:2	WEIGHT (LBS) 0.118	DRAWING NUMBER CALYPS0-01-0305	SHEET 1 / 1	D	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				C	-
				B	-
				A	-

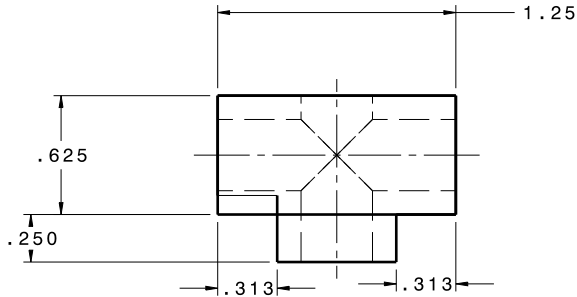


Digits	Tolerance		
X	$\pm 0.025$		
.X	$\pm 0.015$		
.XX	$\pm 0.010$	Angles	
.XXX	$\pm 0.005$	X°	$\pm 1^\circ$

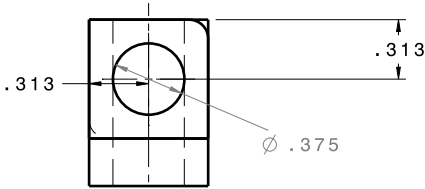
DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Vertical Tail Spar		G	-
DATE: 10/18/2023				F	-
SIZE C		CALYPSO-01-0306		E	-
SCALE 1:2	WEIGHT (LB) 0.11			D	-
DRAWING NUMBER 1/1		SHEET 1/1		C	-
				B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				A	-



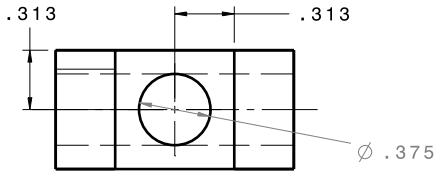
Isometric view



Front view




Right view

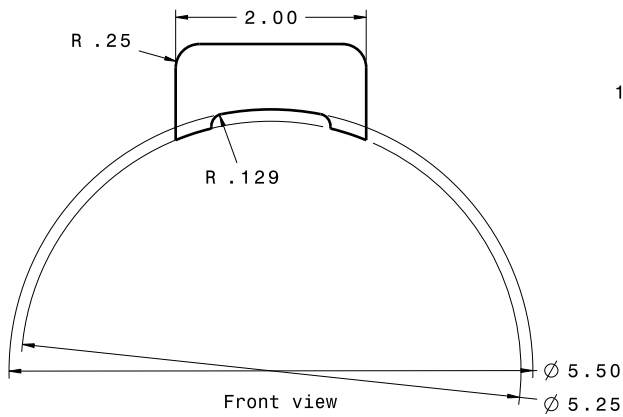
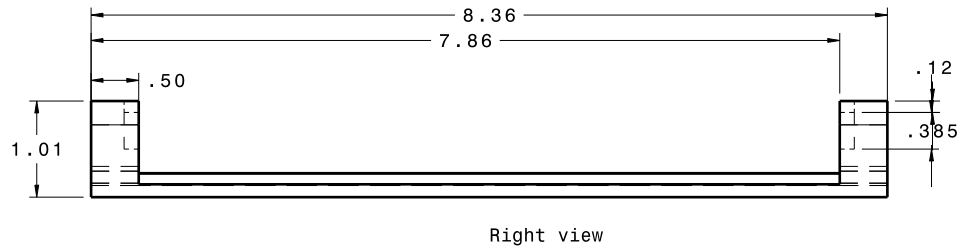
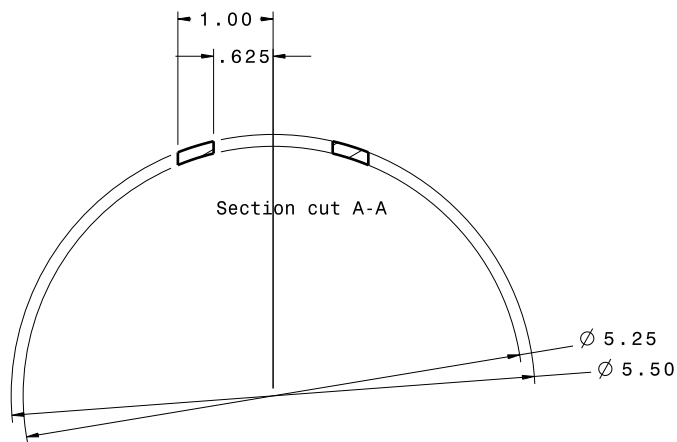
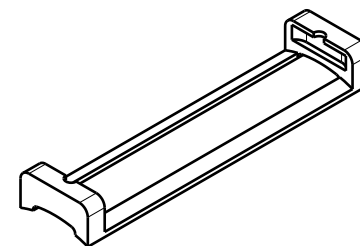
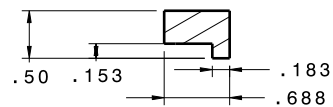
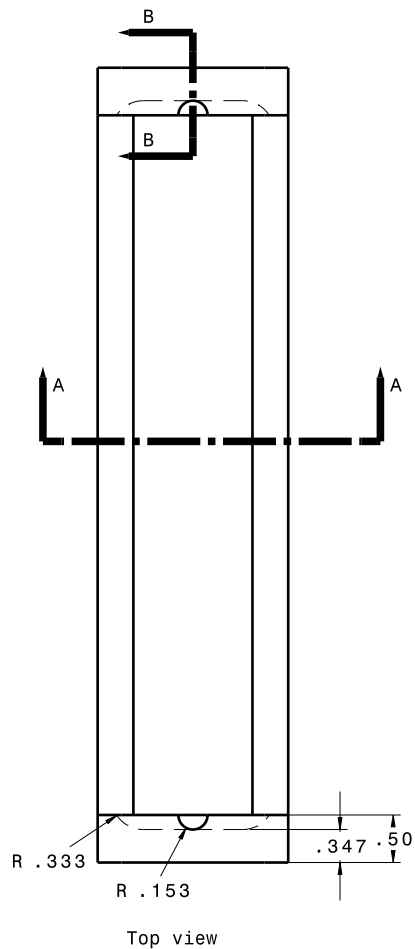


Bottom view


Material:  
Aluminum 6061

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

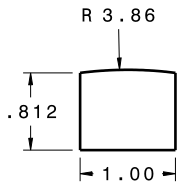
DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-
DATE: 10/18/2023				H	-
CHECKED BY: Tyler Phillips		Tail Spar Adapter		G	-
DATE: 10/18/2023				F	-
SIZE C				E	-
SCALE 2:1				D	-
WEIGHT (LB) 0.15		CALYPSO-01-0307		C	-
DRAWING NUMBER				B	-
SHEET				A	-
1 / 1					
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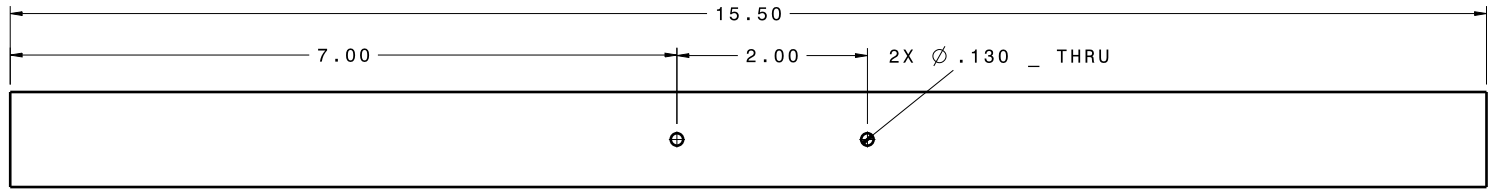
Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso				I	-	
DATE: 10/18/2023				H	-	
CHECKED BY: Tyler Phillips				G	-	
DATE: 10/18/2023				F	-	
SIZE C		Life Raft Bracket			E	-
SCALE 1:1	WEIGHT (LB) 0.21				D	-
DRAWING NUMBER CALYPSO-01-0401					C	-
SHEET 1/1					B	-
					A	-
This drawing is our property. It can't be reproduced or communicated without our written agreement.						

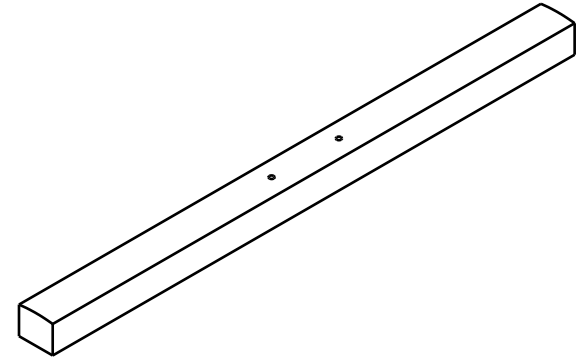
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Front view




Top View



Isometric view  
Scale: 1:2

Layup:  
[0F/45F/0F/45F/Core]s 2x2 Twill CF and 0.875" Nomex Honeycomb

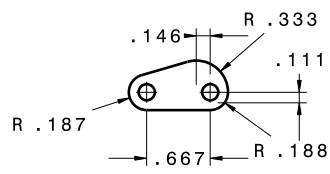
Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University	I	-
DATE: 10/18/2023			H	-
CHECKED BY: Tyler Phillips			G	-
DATE: 10/18/2023			F	-
SIZE C		Fuselage Spine	E	-
SCALE 1:1	WEIGHT (LBS) 0.58		D	-
DRAWING NUMBER CALYPSO-01-0403			C	-
			B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.			A	-

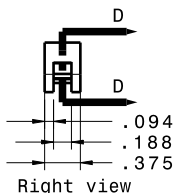
2X Cam



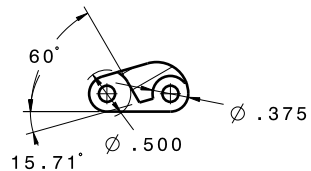
Isometric view



Top View

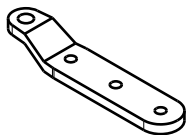


Right view

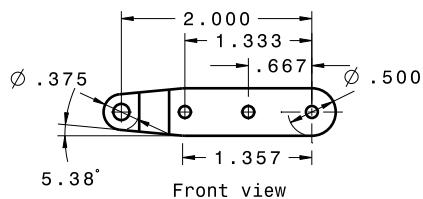


Section view D-D

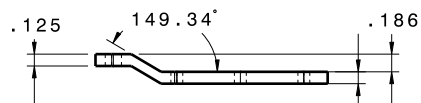
2X Actuator Arm



Isometric view



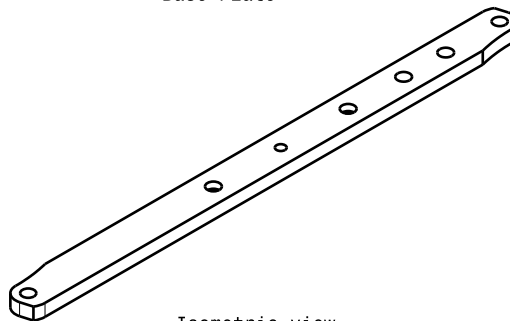
Front view



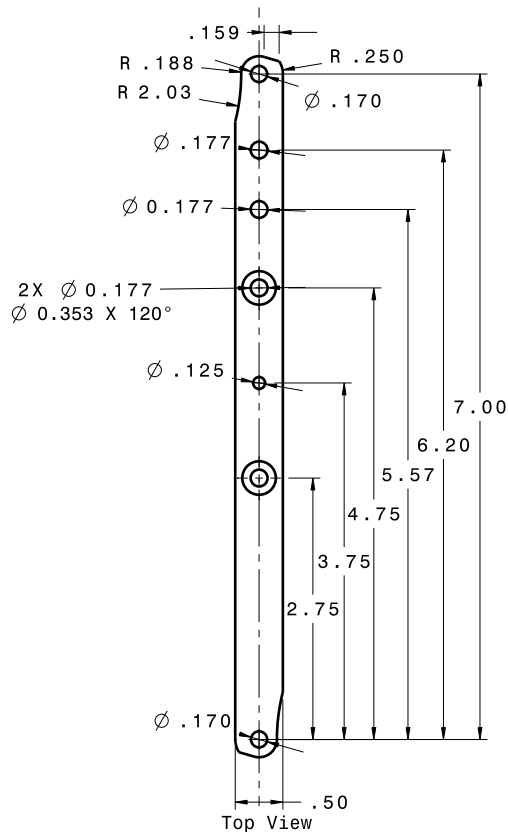
Bottom view

Materials:  
Cam: Delrin  
Actuator Arm: 6061 Aluminum  
Base Plate: 6061 Aluminum  
Link: 6061 Aluminum

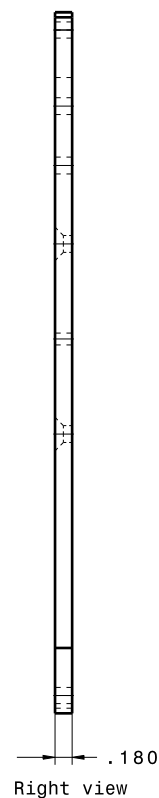
Base Plate



Isometric view

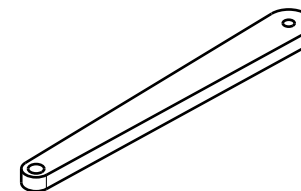


Top View

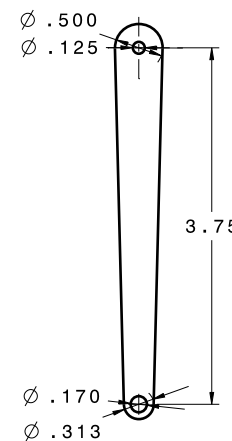


Right view

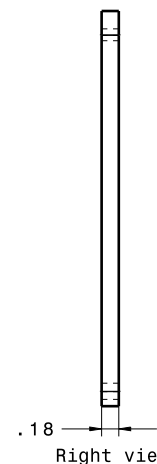
2X Link



Isometric view



Top View



Right view

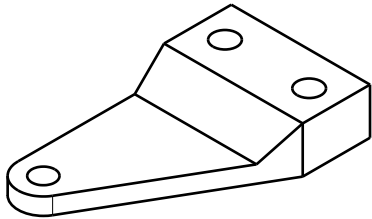
Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	—
DATE: 10/18/2023				H	—
CHECKED BY: Tyler Phillips		PDS Small Parts		G	—
DATE: 10/18/2023				F	—
SIZE C		CALYPSO-01-0403		E	—
SCALE 1:1	WEIGHT (LBS) 0.18			D	—
				C	—
				B	—
				A	—

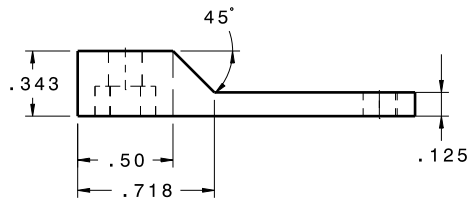
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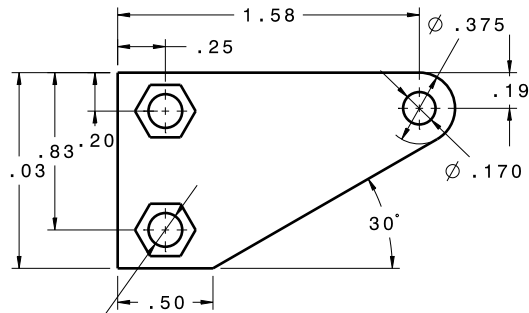
Actuator Mount Bottom



Isometric view



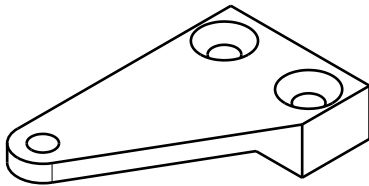
Right View



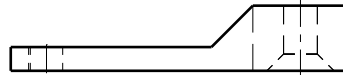
Bottom View

2x Hex Br 1/8" THK 1/8" ID 0.157" Deep

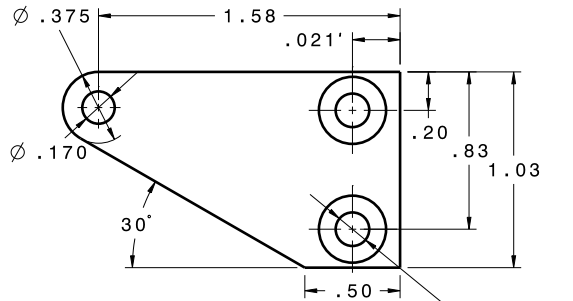
Actuator Mount Top



Isometric view



Right View



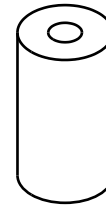
Top View

2X Ø .177 THRU  
Ø 0.353 X 120°

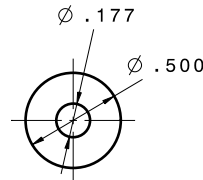
Materials:  
Actuator Mounts: Aluminum 6061  
Spacers: Delrin

Digits	Tolerance		
X	±0.025		
.X	±0.015		
.XX	±0.010	Angles	
.XXX	±0.005	X°	±1°

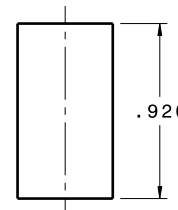
2X 0.92" Spacer



Isometric view



Top View

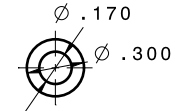


Right View

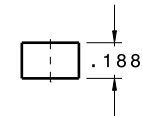
2X 0.1875" Spacer



Isometric view



Top View

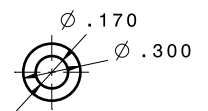


Right View

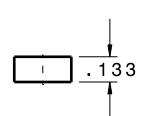
2X 0.13" Spacer



Isometric view



Top View



Right View

DESIGNED BY: Project Calypso		<b>EMBRY-RIDDLE</b> Aeronautical University		I	-	
DATE: 10/18/2023				H	-	
CHECKED BY: Tyler Phillips		PDS Small Parts		G	-	
DATE: 10/18/2023				F	-	
SIZE C		CALYPSO-01-0401		E	-	
				D	-	
SCALE 1:1		1/2		C	-	
WEIGHT (LBS) 0.08				B	-	
DRAWING NUMBER				A	-	
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