Final Construction Drawings for the Evee Launch Project Assembly

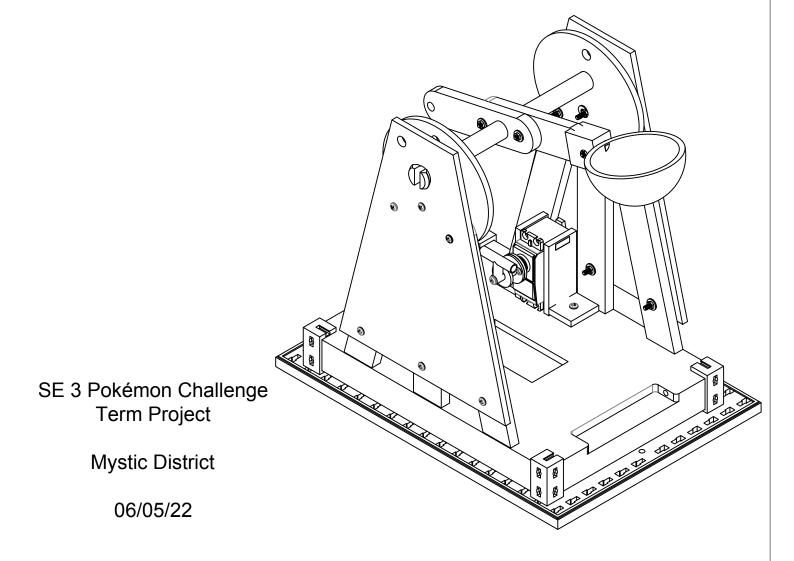
Team #7:

Jesley Dionisio

Ameyalli Hill

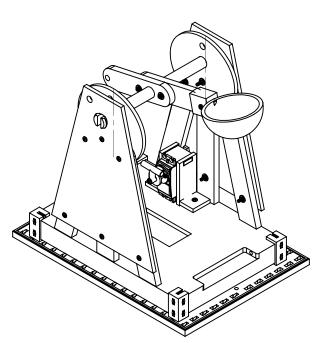
Isabelle Ocampo

Gisselle Robleto



SHEET TYPE DESIGNATOR	PROJECT LEARNED RESULTS	
NUMBER DESCRIPTION 0 GENERAL NOTES & SUMMARY 1 BUILD SCHEMATIC 2 SUBASSEMBLY 3 SUBASSEMBLY 4 SUBASSEMBLY 5 SUBASSEMBLY 6 PLACEMENTS 7 CUSTOM PARTS 8 PLAN VIEW OF TEST SETUP 9 ELEVATION VIEW(S) OF TEST SETUP TABLE OF CONTENTS BG-00 BG-01 - GENERAL NOTES BG-02 - TITLE SHEET BG-03 - TITLE SHEET PART 2 BG-10 - BUILD SCHEMATIC BG-20 - BASE ASSEMBLY BG-30 - POKEBALL HOLDER SUBASSEMBLY BG-40 - TRUSS ASSEMBLY BG-50 - TRUSS ASSEMBLY BG-61 - PLACEMENT SHEET BG-710 - LEVER BG-711 - BASE BG-712 - CLOUD BG-720 - CENTER BEAM 2	1) We learned how to use CAD softwares (i.e AutoCad, SolidWorks) to effectively practice our graphical communication skills. 2) Through SolidWorks and SolidProfessor, we learned how to efficiently design and print our 3d parts, subassemblies, and master assembly. 3) Through the refine and design steps in the engineering design process, our team enhanced our tolerancing skills while designing parts of our pokeball launcher. 4) We learned how to efficiently produce parts for our assembly in the least expensive way while staying within the requirements and constraints during the manufacturing process. 5) We learned how to effectively and concisely communicate our design process through powerpoints and a poster using graphical elements such as diagrams, charts, and drawings. 6) Through this project, we practiced and improved our collaboration skills to produce and distribute work effectively. 7) Through every step of this project, we were able to actively learn more about the timeline and effort needed to produce a product/structure. 8) Working with different forms of engineering graphics helped us hone our ability to transfer ideas and information needed for the construction of technical systems. 9) Using the examples of tensile tests in the structural experiments lab, we produced acrylic and 3D printed shapes that would generate the best structural performance for our model. 10) We learned how to laser cut and raster parts	SE3 - POKEMON CHALLENGE TITLE: EVEE LAUNCH PROJECT DRAWN: CHECKED: APPROVED BY: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL +/- 1/32
BG-721 - CENTER BEAM 1 BG-722 - POKEBALL HOLDER	of our assembly with the helpful use of autocad.	MATERIAL: NA
BG-722 - POKEBALL HOLDER BG-723 - TRUSS FACE BG-730 - MOTOR HOLDER 1	PROJECT CHALLENGES	FINISH: NONE
BG-730 - MOTOR HOLDER 1 BG-731 - MOTOR HOLDER 2 BG-732 - MOTOR HOLDER 3 BG-733 - CENTER ROD BG-734- PULLEY BG-740 - MIDDLE BEAM BG-741 - DIAGONAL BEAM BG-742 - TOP BEAM CONNECTOR BG-80 - EXPERIMENTAL TEST SETUP PLAN BG-90 - EXPERIMENTAL TEST SETUP FRONT VIEW BG-91 - EXPERIMENTAL TEST SETUP LEFT VIEW BG-92 - EXPERIMENTAL TEST SETUP BACK VIEW	1) The refine and design process required much time to ensure all our parts were adequately designed. 2) Managing our time and aligning the team's schedule was a challenge due to miscommunication and absences. 3) Our team struggled to manage changes quickly and efficiently as it took several iterations to solve the same issues. 4) Due to our personal computers' software incompatibility, our team needed to use CloudLab, which happened to be unreliable at times, elongating the process of designing and drawing our model. 5) There was significant inconsistency and troubleshooting in the CAD software.	SHEET TITLE: GENERAL NOTES SIZE DWG. NO. REV A BG-01 1 SCALE: NA

SHEET INDEX		
SHEET NUMBER	SHEET TITLE	
BG.00	Title Sheet	
BG.10	Build Schematic	
BG.20	Base Subassembly	
BG.30	Pokeball Launcher Subassembly	
BG.40	Truss Subassembly 1	
BG.50	Truss Subassembly 2	
BG.60	Placements	
BG.70	Custom Parts Start	
BG.79	Custom Parts End	
BG.80	Experimental Test Setup Plan View	
BG.90	Experimental Test Setup Elevation Views	





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Evee Launch PRoject Title Sheet PROJECT TITLE SHEET TITLE

COURSE DATE

SE 3 Graphical Communication

for Engineers

APPROVALS DESIGNED BY 5-28-22 **ISABELLE** O

DRAWN BY TEAM #7 CHECKED BY

MYSTIC

APPROVED BY

REV

QTY: 1 **SCALE: 1:4** SHEET 2 OF 31

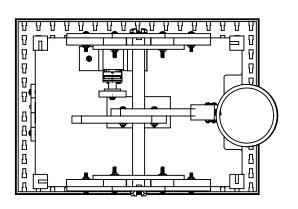
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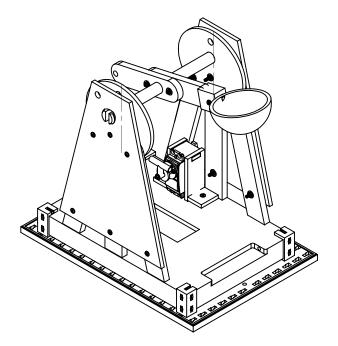
BG.02

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4011	Base	1
2	4019	Acrylic Cloud	1
3	91772A110	Passivated 18-8 Stainless Steel Pan Head Phillips Screw 0.5 in	5
4	4014	Base Plate 258x186	1
5	4015	Girder 30	4
6	1111	Middle Beam	2
7	2222	Diagonal Beam 1	2
8	3333	Diagonal Beam 2	2
9	4444	Top Beam Connector	2
10	5555	Truss Face	2
11	91772A115	Passivated 18-8 Stainless Steel Pan Head Phillips Screw	6
12	93286A005	Aluminum Washer	14
13	90730A005	18-8 Stainless Steel Narrow Hex Nut	16
14	91772A113	Passivated 18-8 Stainless Steel Pan Head Phillips Screw	11
15	7777	Center Rod	1
16	3001	Center Beam 2	1
17	3002	Center Beam 1	1
18	3003	Pokeball Holder	1
19	5678	Top Wall of Motor Holder	2
20	5679	Side Tabs of Motor Holder	2
21	5680	Side Walls of Motor Holder	1
22	4017	Servo Horn	1
23	4111	Pulley	1
24	4013	Lever	1
25	91772A092	Passivated 18-8 Stainless Steel Pan Head Phillips Motor Screw	2
26	8888	String	1
27	2233	Rubber band	3
28	9999	Servo Motor	1

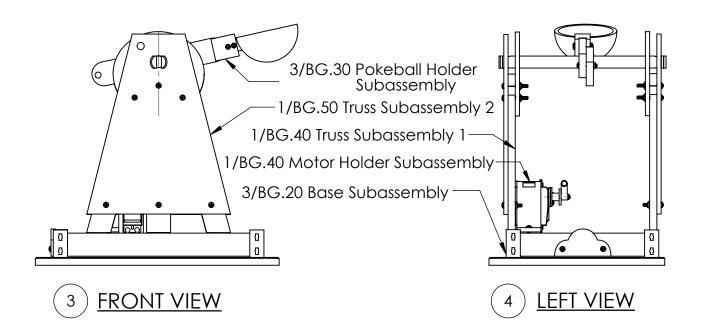
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PROJECT TITLE EVEE LAUNCH Project	SHEET TITLE Sheet 2	COURSE SE 3 Graphical Communication for Engineers
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(1) <u>TOP VIEW</u>



2 ISOMETRIC VIEW





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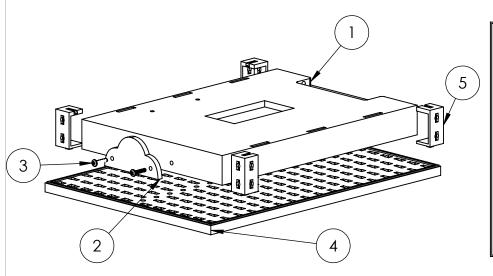
PROJECTITLE EVEE LAUNCH Project
SHEET TILE Build Schematic

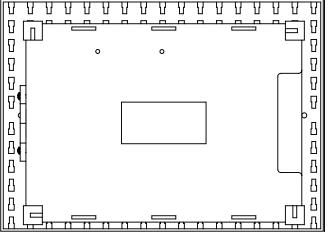
SE 3 Graphical Communication

COURSE

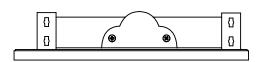
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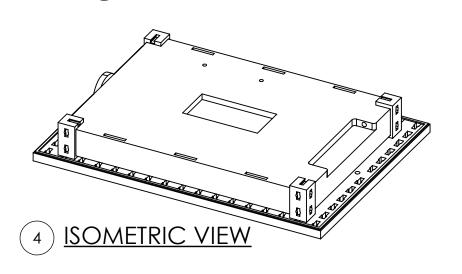


(2) <u>TOP VIEW</u>



EXPLODED VIEW

3 <u>LEFT VIEW</u>



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4011	Base	1
2	4019	Acrylic Cloud	1
3	91772A110	Passivated 18-8 Stainless Steel Pan Head Phillips Screw 0.5 in	2
4	4014	Base Plate 258x186	1
5	4015	Girder 30	4



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PROJECTITLE EVEE LAUNCH Project SHEETITLE BASE ASSEMBLY

SE 3 Graphical Communication

for Engineers

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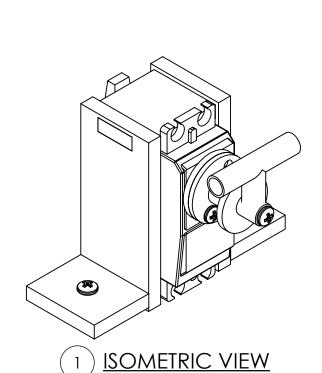
APPROVALS
DESIGNED BY
Gisselle R.

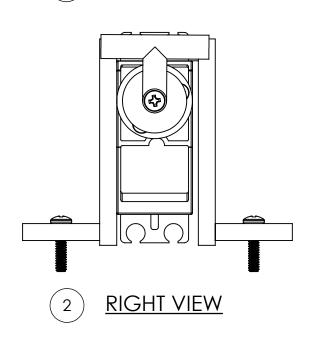
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TEAM #7
CHECKED BY

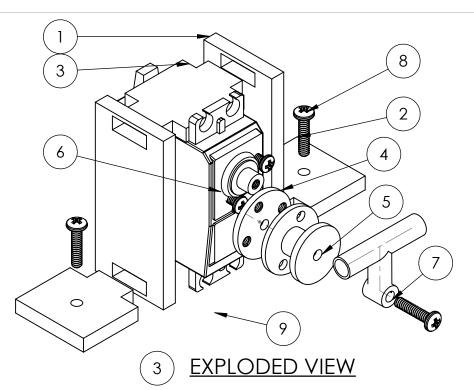
APPROVED BY

REV
QTY: 1
SCALE: 1:3

SHEET 6 OF 31 SIZE DWG. NO.







ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5678	Top Wall of Motor Holder	2
2	5679	Side Tabs of Motor Holder	2
3	5680	Side Walls of Motor Holder	1
4	4017	Servo Horn	1
5	4111	Pulley	1
6	91772A092	Passivated 18-8 Stainless Steel Pan Head Phillips Motor Screw	2
7	4013	Lever	1
8	91772A110	Passivated 18-8 Stainless Steel Pan Head Phillips Screw 0.5 in	3
9	9999	Servo Motor	1

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PROJECT TITLE EVEE LAUNCH Project

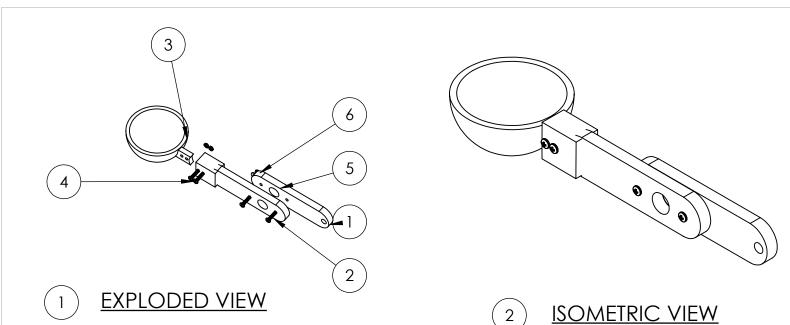
SHEET TITLE Motor Holder Assembly

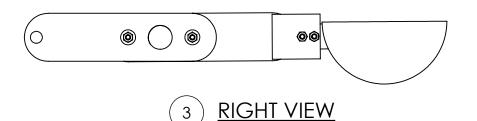
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SE 3 Graphical Communication

for Engineers

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DESIGNED BY JESLEY D.		5/26	
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REV	QTY: 1		
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U	SHEET 7	OF 31	
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ITEM NO. **DESCRIPTION** PART NUMBER QTY. 3001 Center Beam 2 2 3002 Center Beam 1 3 3003 Pokeball Holder Passivated 18-8 Stainless Steel Pan 91772A113 4 4 Head Phillips Screw 5 93286A005 Aluminum Washer 2 90730A005 18-8 Stainless Steel Narrow Hex Nut 6 4



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PROJECT TITLE EVEE Launch Project SHEET TITLE POKEBAll Holder Subassembly

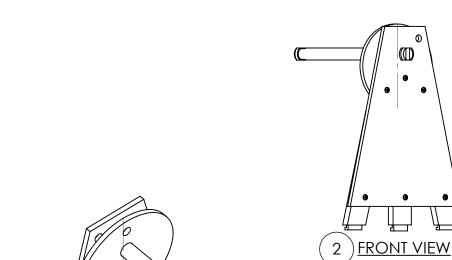
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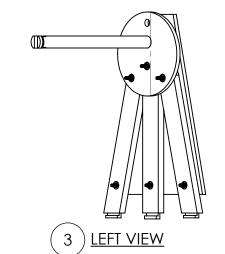
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for Engineers

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SIZE	DWG. NO.	
Α	BG.30	

3





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1111	Middle Beam	1
2	2222	Diagonal Beam	1
3	3333	Diagonal Beam	1
4	4444	Beam Connector	1
5	55555	Truss Face	1
6	91772A115	Passivated 18-8 Stainless Steel Pan Head Phillips Screw	3
7	93286A005	Aluminum Washer	6
8	90730A005	18-8 Stainless Steel Narrow Hex Nut	6
9	91772A113	Passivated 18-8 Stainless Steel Pan Head Phillips Screw	3
10	7777	Center Rod	1



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PROJECT TITLE EVEE Launch Project SHEET TITLE Truss Assembly

SE 3 Graphical Communication for Engineers

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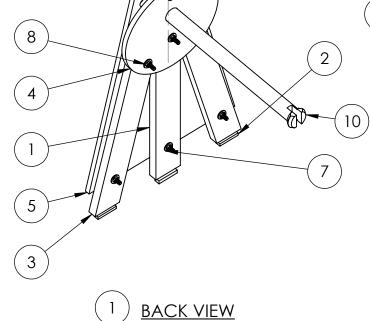
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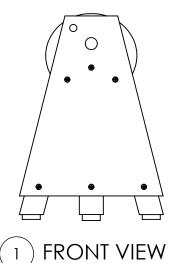
SHEET 9 OF 31

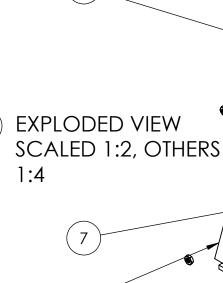
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Truss Subassembly 2

PROJECT TITLE EVEE Launch Project

COURSE

SE 3 Graphical Communication

for Engineers

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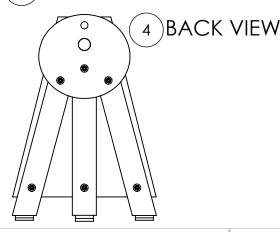
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SHEET 10 OF 31

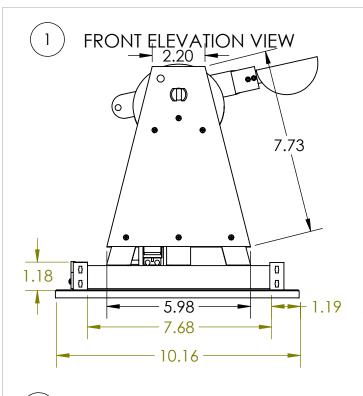
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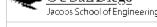




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	2	2222	Diagonal Beam 1	1	DESIG
٧	3	3333	Diagonal Beam 2	1	- IS/ DRAW
	4	4444	Top Beam Connector	1	TEA
	5	5555	Truss Face	1	CITEC
	6	91772A115	Passivated 18-8 Stainless Steel Pan Head Phillips Screw	3	APPRO RE'
	7	93286A005	Aluminum Washer	6	(
	8	90730A005	Hex nut	6	
	9	91772A113	Passivated 18-8 Stainless Steel Pan Head Phillips Screw	3	SIZ



EXPLODED ISOMETRIC VIEW



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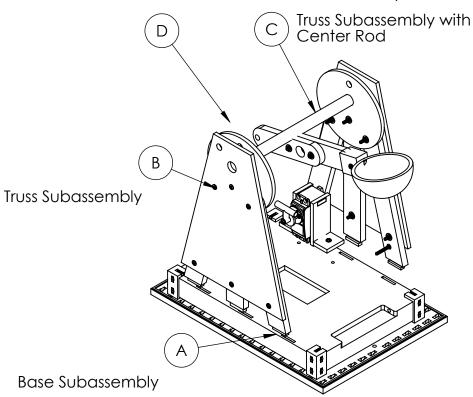
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Subassembly Placement SE 3 Graphical Communication for Engineers Evee Launch Project

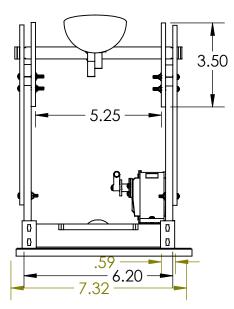
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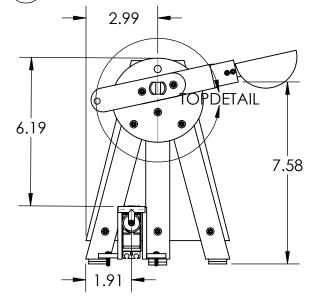
Pokeball Holder Subassembly

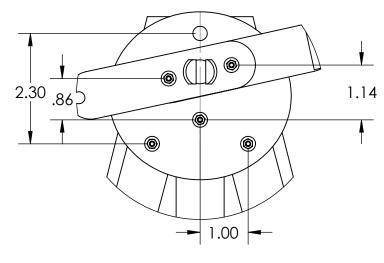


RIGHT ELEVATION VIEW



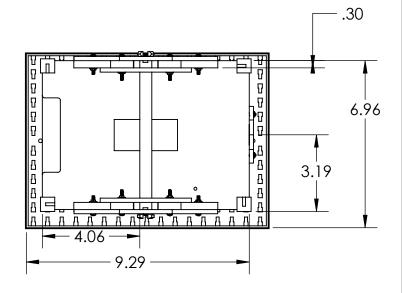
TRUSS/HOLDER ASSEMBLY SIDE VIEW





TOPDETAIL SCALE 1:2

(2) TOP CONNECTOR DETAIL VIEW



TRUSS/BASE ASSEMBLY TOP VIEW



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Placement Sheet 2 SE 3 Graphical Communication Evee Laucnh Projec PROJECT TITLE COURSE

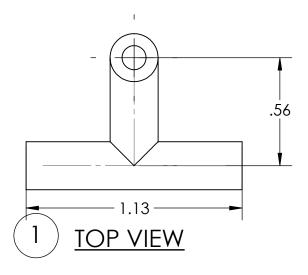
for Engineers

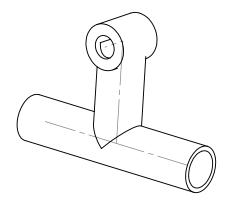
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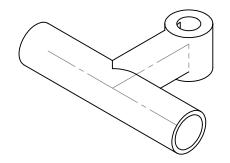
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BG.61

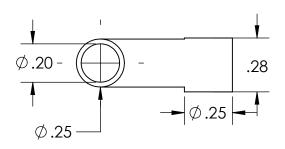




CURRENT VIEW



ISOMETRIC VIEW



RIGHT VIEW



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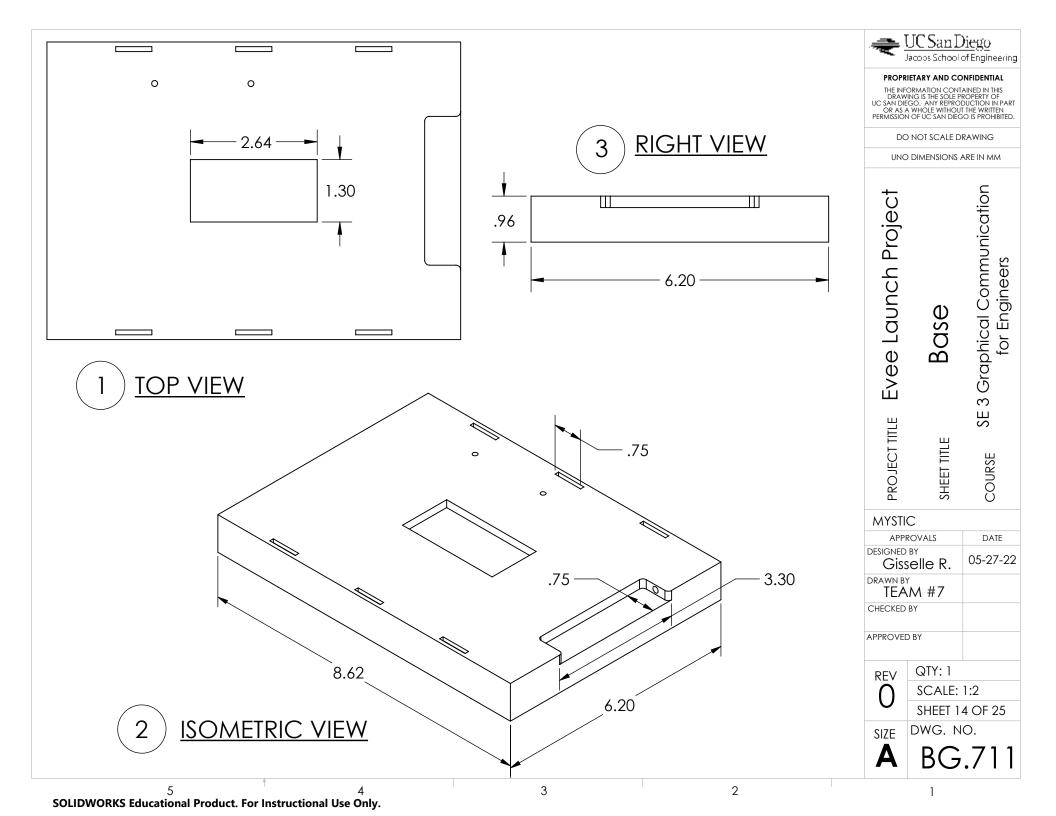
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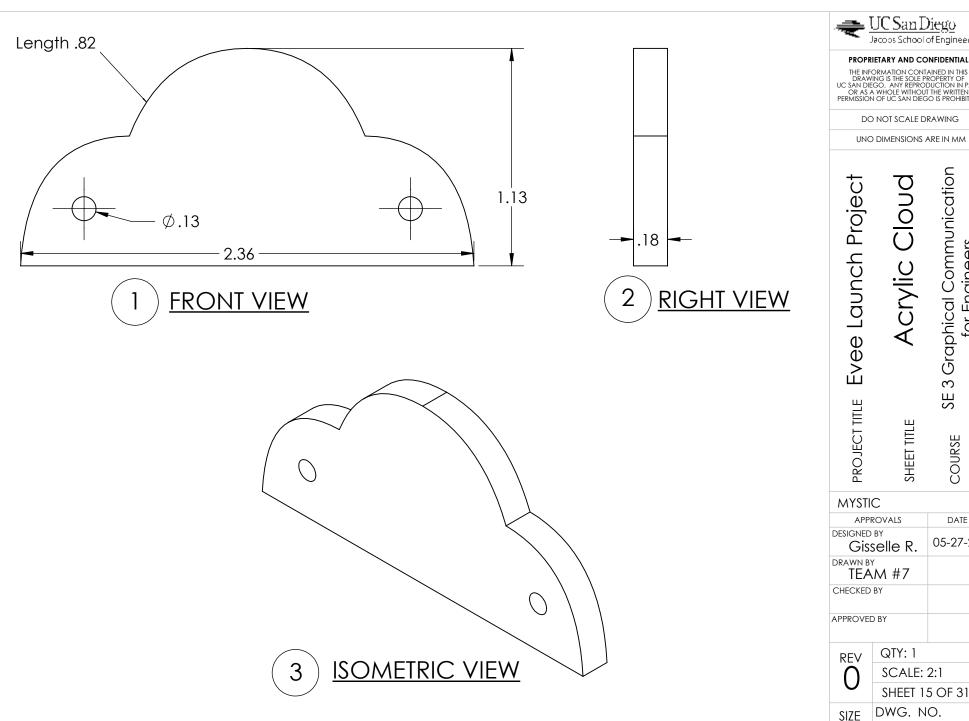
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SE 3 Graphical Communication Evee Launch Project for Engineers PROJECT TITLE SHEET TITLE COURSE

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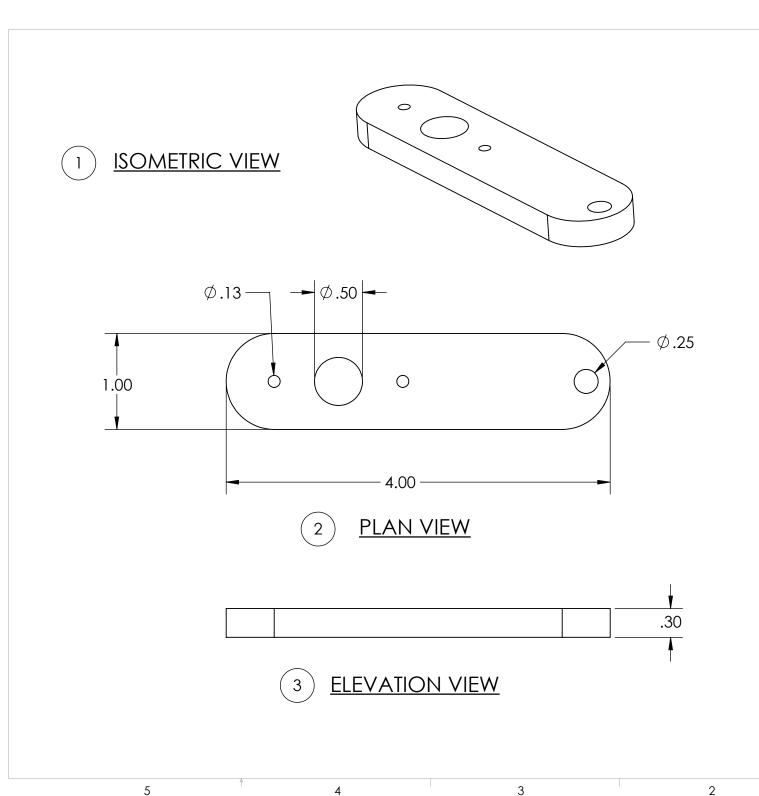
SE 3 Graphical Communication COURSE

for Engineers

DATE 05-27-22 **SCALE: 2:1** SHEET 15 OF 31

BG.712

2





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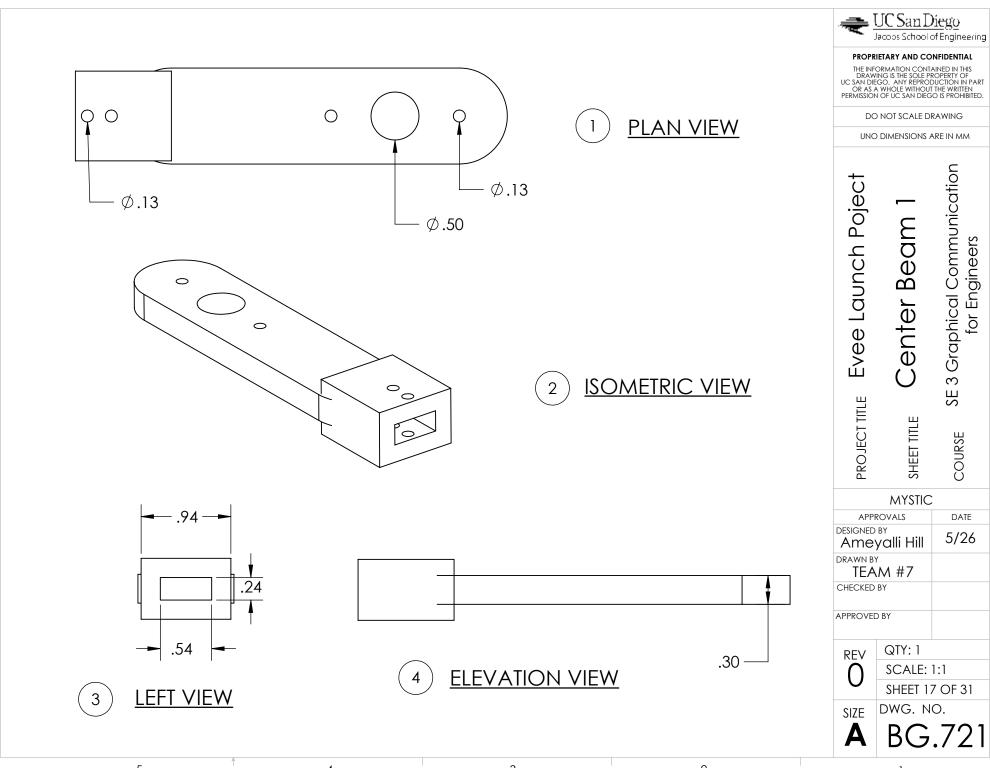
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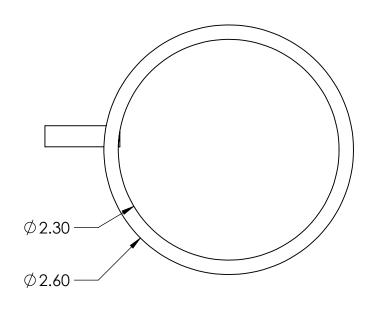
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SE 3 Graphical Communication **Evee Launch Project** Center Beam 2 PROJECT TITLE COURSE

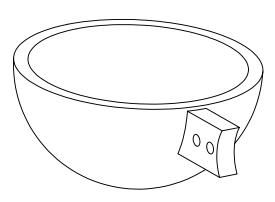
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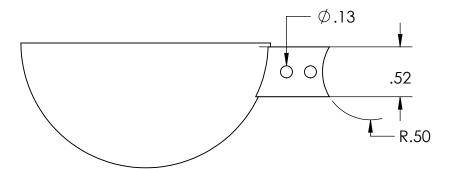




PLAN VIEW



ISOMETRIC VIEW



ELEVATION VIEW



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SE 3 Graphical Communication

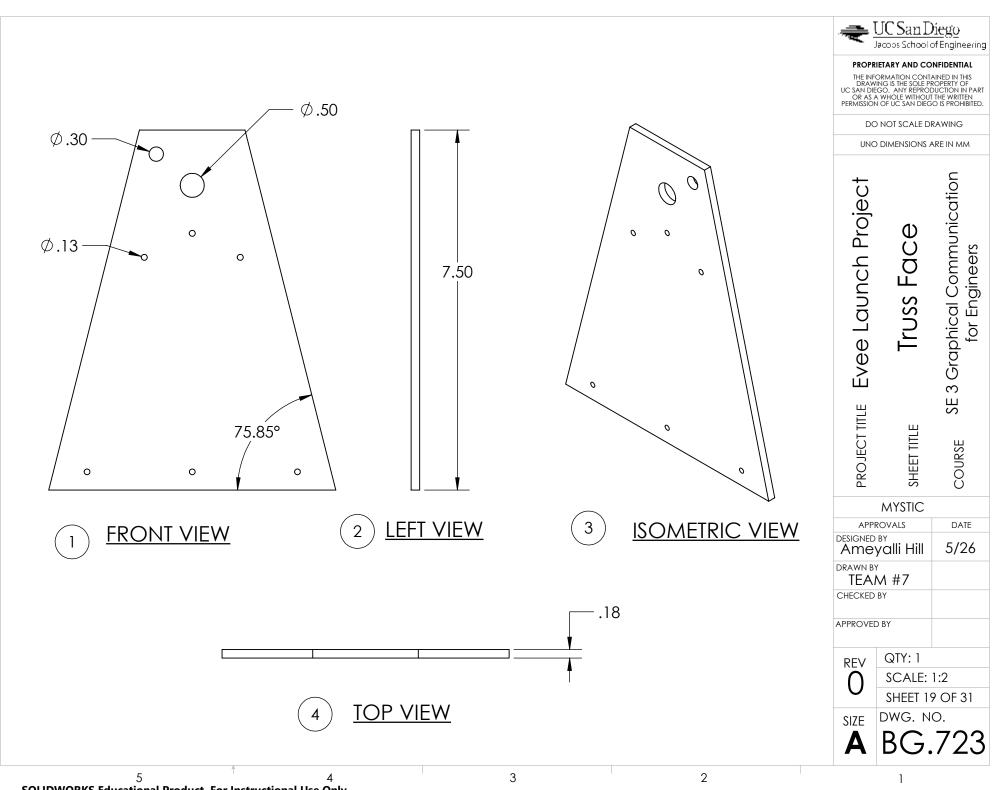
for Engineers

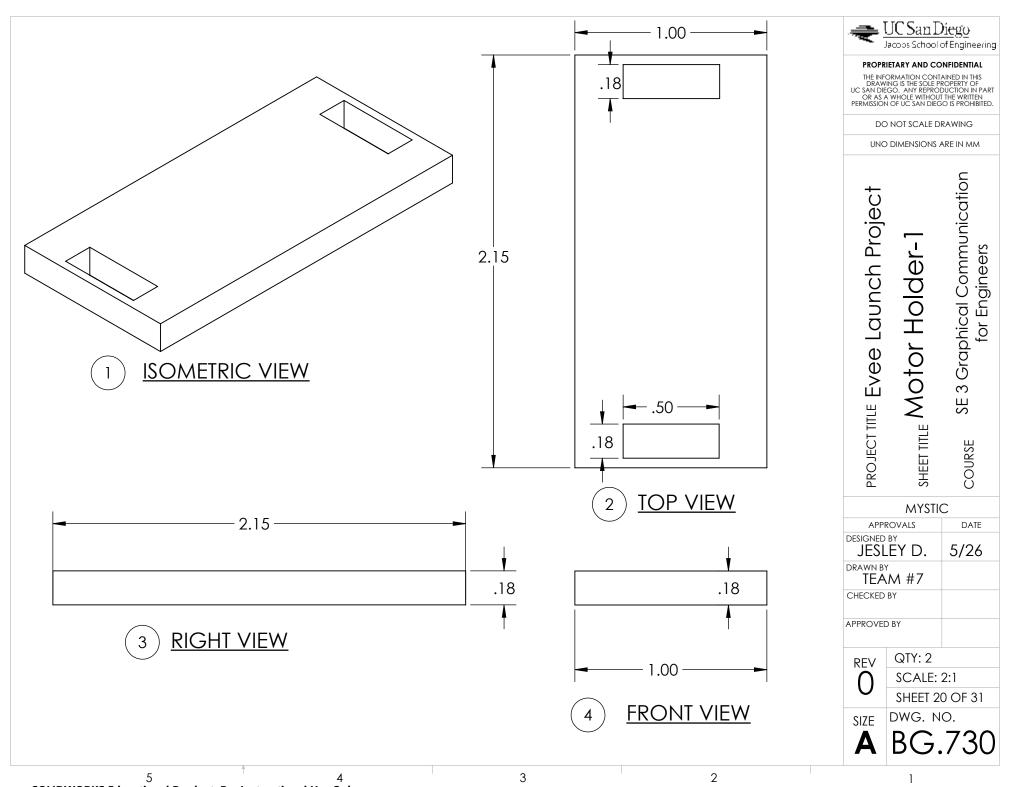
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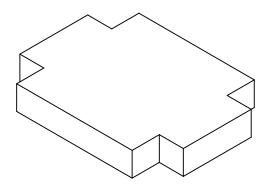
Evee Launch Project Pokeball Holder PROJECT TITLE SHEET TITLE

COURSE **MYSTIC** APPROVALS DATE DESIGNED BY Ameyalli Hill 5/26 DRAWN BY TEAM #7 CHECKED BY APPROVED BY QTY: 1 REV **SCALE: 1:1 SHEET 18 OF 31**

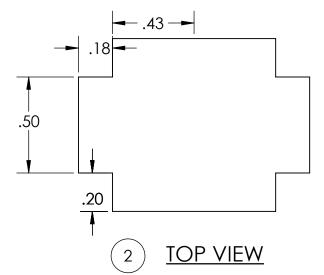
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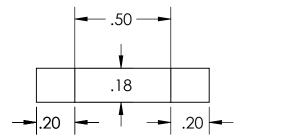




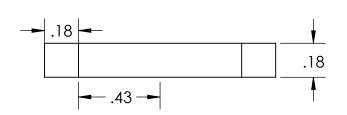


ISOMETRIC VIEW





RIGHT VIEW



FRONT VIEW



PROPRIETARY AND CONFIDENTIAL

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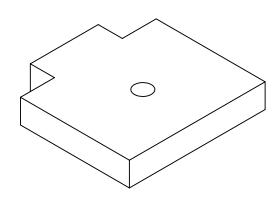
DO NOT SCALE DRAWING

UNO DIMENSIONS ARE IN MM

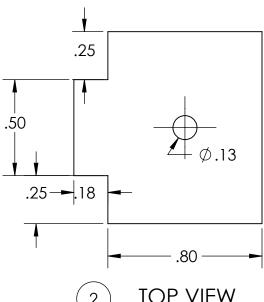
PROJECT TITLE EVEE LAUNCH Project Motor Holder-2 SHEET TITLE

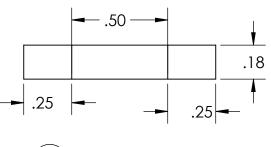
SE 3 Graphical Communication for Engineers COURSE

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JESLEY D.		5/26	
TEAM #7			
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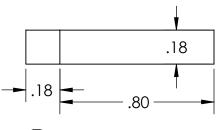


1 ISOMETRIC VIEW





(3) <u>LEFT VIEW</u>



FRONT VIEW

TOP VIEW

.18

DESI
JORA

-	UC San Diego
_	Jacobs School of Engineering

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Motor Holder-3

PROJECT TITLE EVEE Launch Project

MYSTIC

MATERIAL DATA

(Y D. 5/2

SE 3 Graphical Communication

for Engineers

APPROVALS DATE

DESIGNED BY

JESLEY D.

DRAWN BY

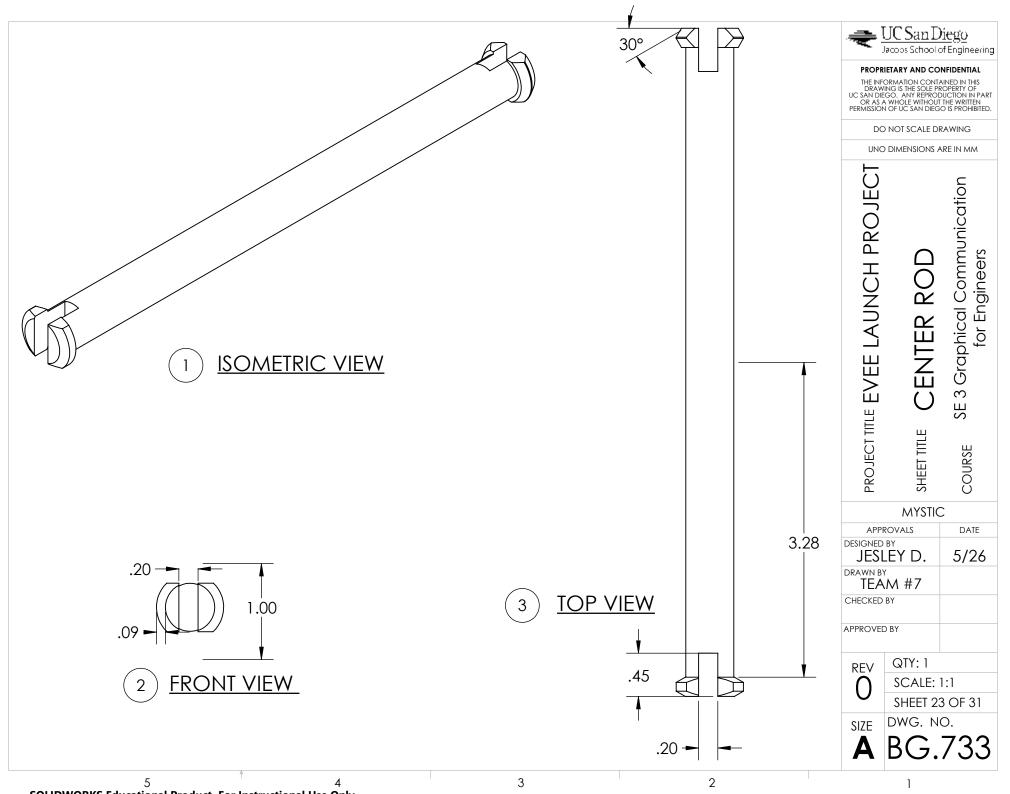
TEAM #7

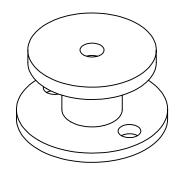
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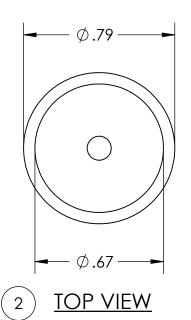
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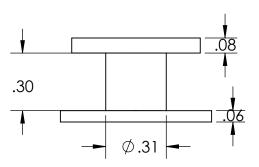
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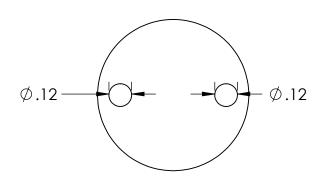


ISOMETRIC VIEW





(3) FRONT VIEW



(4) <u>BOTTOM VIEW</u>



MYSTIC

APPROVALS DATE

DESIGNED BY
JESLEY D. 5/26

DRAWN BY
TEAM #7

CHECKED BY

APPROVED BY

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O

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SCALE: 2:1

SHEET 24 OF 31

SIZE

DWG. NO.

