

- NOTES:
1. CRACKER MODEL DIMENSIONS
 2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
 3. 12" MODEL SCALE BY 3X

KENNESAW STATE UNIVERSITY

ASSM PM-MAIN-02 - Full Machine Assembly

SCALE: 1:4

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

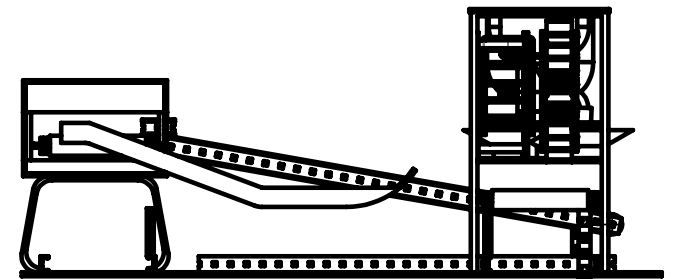
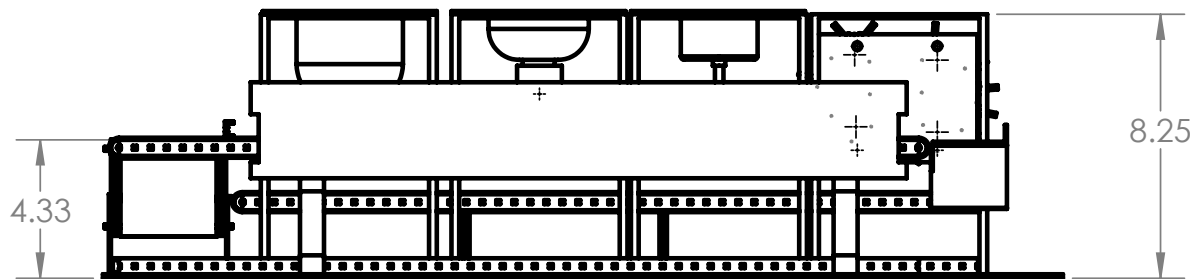
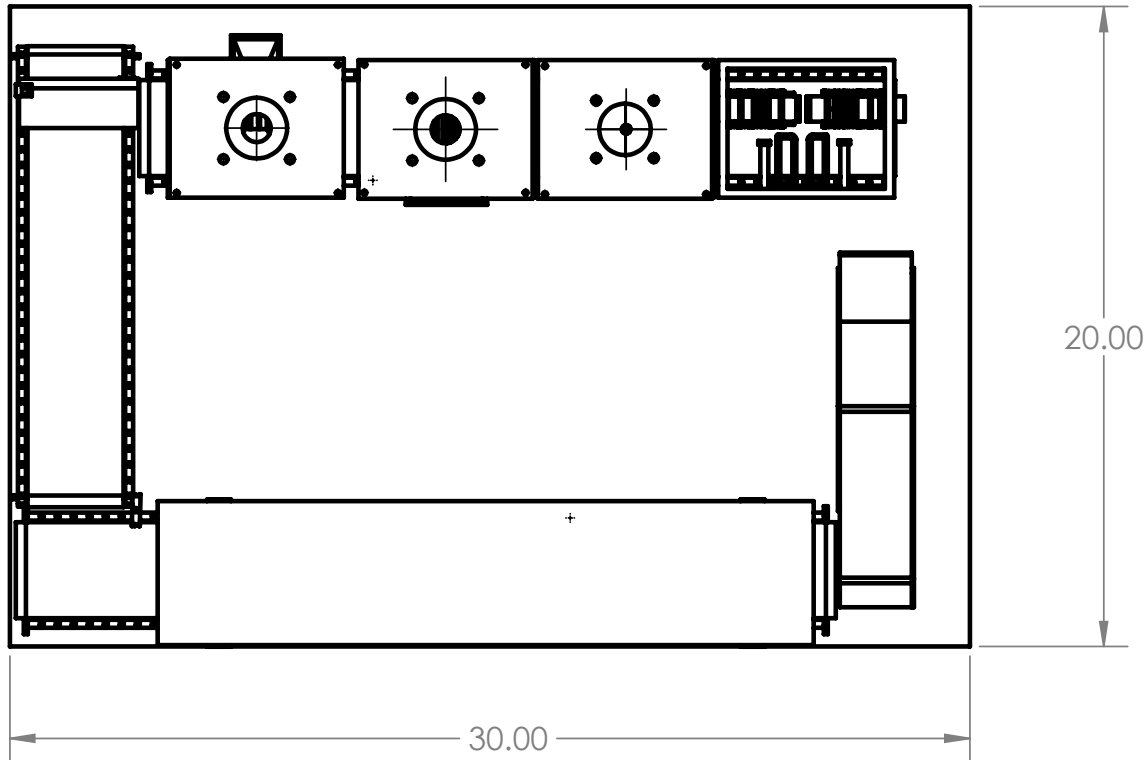
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

1 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
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3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

ASSM PM-MAIN-02 - Full Machine Assembly

SCALE: 1:6

DATE: 12/6/2019

DR. BY:

VIVIAN NGUYEN

SHEET NO.

AUTOMATED PIZZA ASSEMBLY

CAD BY:

DANA FONG

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ITEM NO.	PART NUMBER	QTY
1	PART PM-FF-FLOOR-01 - Main Factory Floor	1
2	PART PM-CA-ROLL-01 - Conveyor Roller	6
3	PART PM-CA-AXLE-01 - Conveyor Axle	6
4	PART PM-CA-BELT-01 - Conveyor Belt	1
5	PART PM-CA-FRAM-01 - Generic C Bar	4
6	PART PM-CA-SUPP-01 - Generic Supporting Hex Bar	2
7	14 in	1
8	14.5 in	2
9	13 in	2
10	PART PM-OA-CASE-01 - Oven Case	1
11	Cracker Model 2.75 Baseless	2
12	25 in	1
13	25 in	4
14	PART PM-SA-SLIDE-01 - Slide	1
15	PART PM-CA-FRAM-02 - Thin Bar	2
16	PART PM-CA-ELEV-01 - Conveyor Elevation balancer	1
17	1 in	1
18	PART PM-CA-MOUN-01 - Base Plate Cracker Mount	1
19	PART PM-MA-BEAM-01 - Beam	4
20	PART PM-CA-CRAC-01 - Ribbon Plate	2
21	PART PM-MA-CONN-01 - Conveyor Bracket	16
22	PART PM-MA-FLAN-01 - Conveyor Flange	2

ITEM NO.	PART NUMBER	QTY
23	PART PM-MA-CONN-01 - Conveyor Bracket	16
24	60425K13	4
25	PART PM-MA-FRAME-01 - Module Frame	4
26	PART PM-CA-PREP-01 - Pizza dough stand	2
27	PART PM-CA-SAUC-01 - Mounting Plate	2
28	PART PM-CA-SAUC-01 - Funnel	1
29	PART PM-SD-SAUC-01 - Sauce distributor mount	6
30	PART PM-SD-SAUC-01 - Sauce distributor mount	6
31	PART PM-SD-SAUC-01 - Sauce dispenser	1
32	PART PM-SD-SAUC-01 - Sauce dispenser	1
33	PART PM-CA-SAUC-01 - Mounting Plate Sauce	1
34	PART PM-SD-SAUC-01 - Sauce Dist Container	1
35	PART PM-SD-SAUC-01 - Sauce Tubing	1
36	PART PM-CA-SAUC-01 - Funnel	1
37	PART PM-SD-SAUC-01 - Sauce dispenser	1
38	PART PM-MA-CASE- 01 - Wheel Dispenser Case	1
39	PART PM-MA-DISP-01 - Cheese Portioning Wheel	1
40	PART PM-MA-AXEL-01 - Square Axle	1

KENNESAW STATE UNIVERSITY

ASSM PM-MAIN-02 - Full Machine Assembly

SCALE: N/A

DATE: 12/6/2019

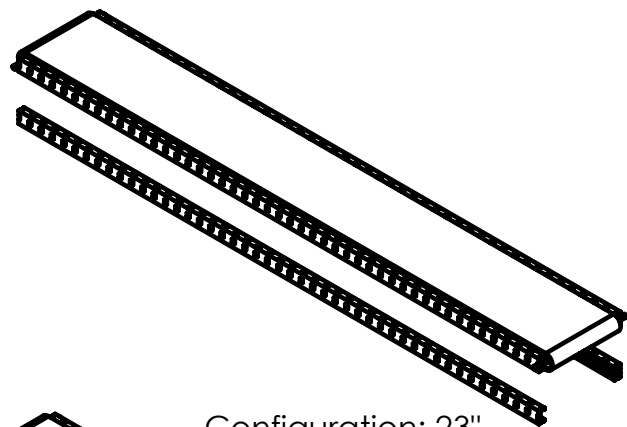
DR. BY: VIVIAN NGUYEN

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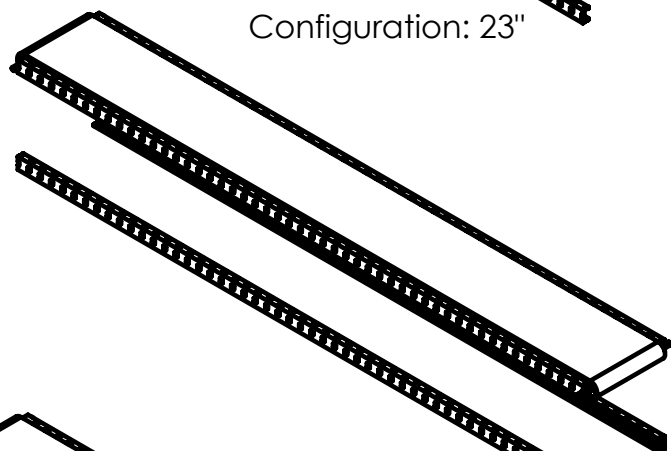
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

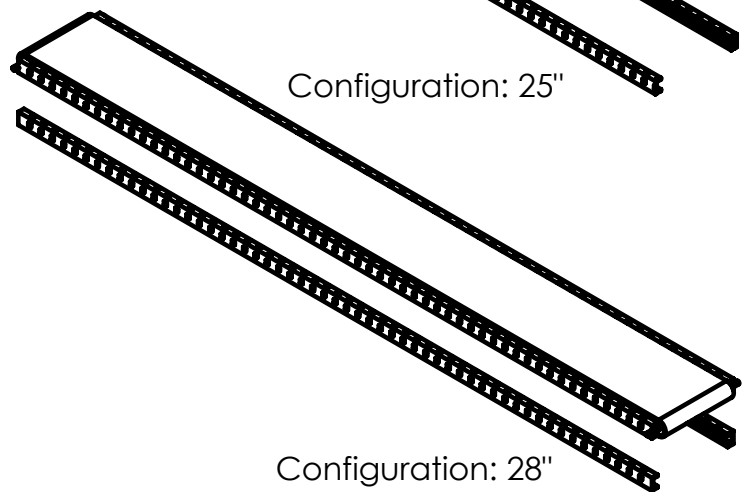
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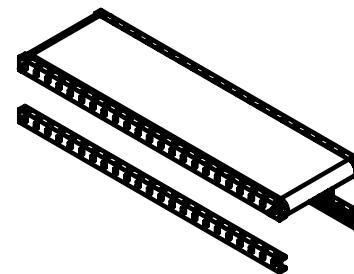
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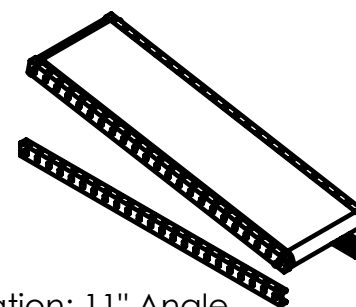
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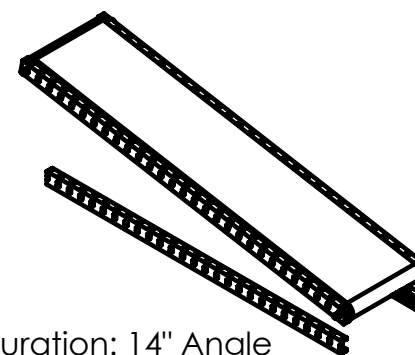
Configuration: 28"



Configuration: 11"



Configuration: 11" Angle



Configuration: 14" Angle

KENNESAW STATE UNIVERSITY

ASSM PM-CA-ALL-02 - Conveyor Belt Assembly

SCALE: 1:6

DATE: 12/6/2019

DR. BY:

VIVIAN NGUYEN

SHEET NO.

AUTOMATED PIZZA ASSEMBLY

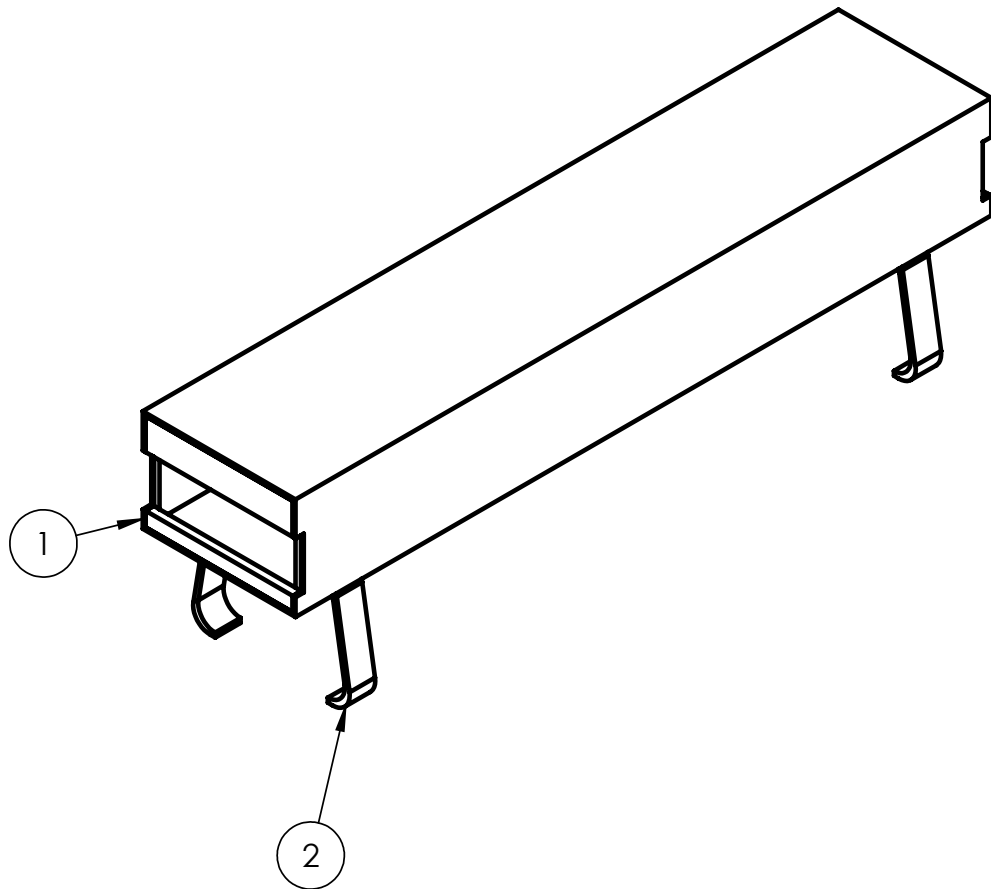
CAD BY:

DANA FONG

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NOTES:

1. CRACKER MODEL DIMENSIONS
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3. 12" MODEL SCALE BY 3X



ITEM NO.	PART NUMBER	
1	PART PM-OA-CASE-01 - Oven Case	1
2	Cracker Model 3 Baseless	2

KENNESAW STATE UNIVERSITY

ASSM PM-OA-ALL-02 - Oven Assembly

SCALE: 1:4

DATE: 12/6/2019

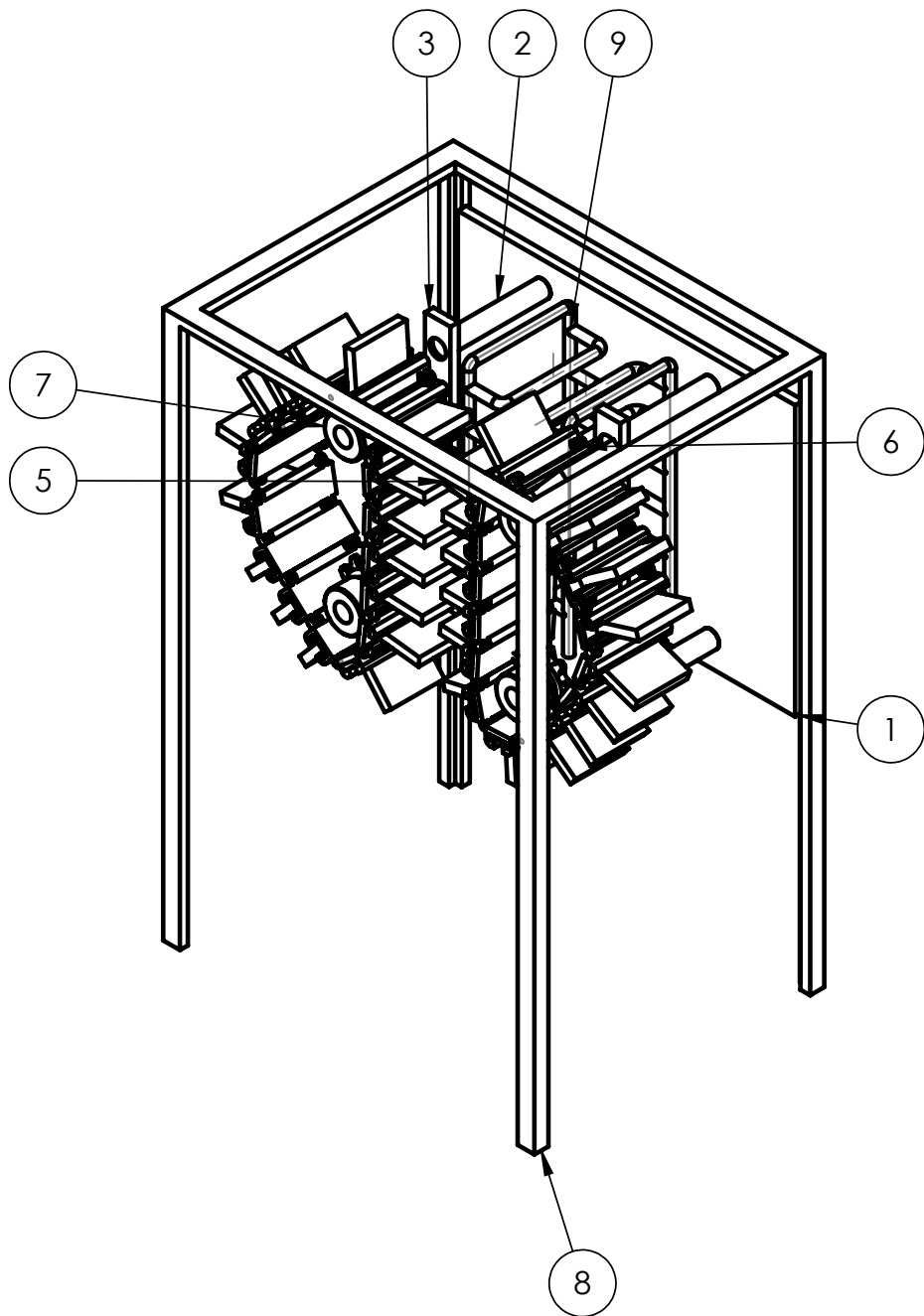
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SHEET NO.

AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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- NOTES:
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 3. 12" MODEL SCALE BY 3X

ITEM NO.	PART NUMBER	
1	PART PM-CA-MOUN-01 - Base Plate Cracker Mount	1
2	PART PM-MA-BEAM-01 - Beam	4
3	PART PM-CA-CRAC-01 - Ribbon Plate	2
4	PART PM-MA-CONN-01 - Conveyor Bracket	16
5	PART PM-MA-FLAN-01 - Conveyor Flange	2
6	PART PM-MA-CONN-01 - Conveyor Bracket	16
7	60425K13	4
8	PART PM-MA-FRAME-01 - Module Frame	1
9	PART PM-CA-PREP-01 - Pizza dough stand	2

KENNESAW STATE UNIVERSITY

ASSM PM-CA-DISP-01 - Cracker Module

SCALE: 1:2

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

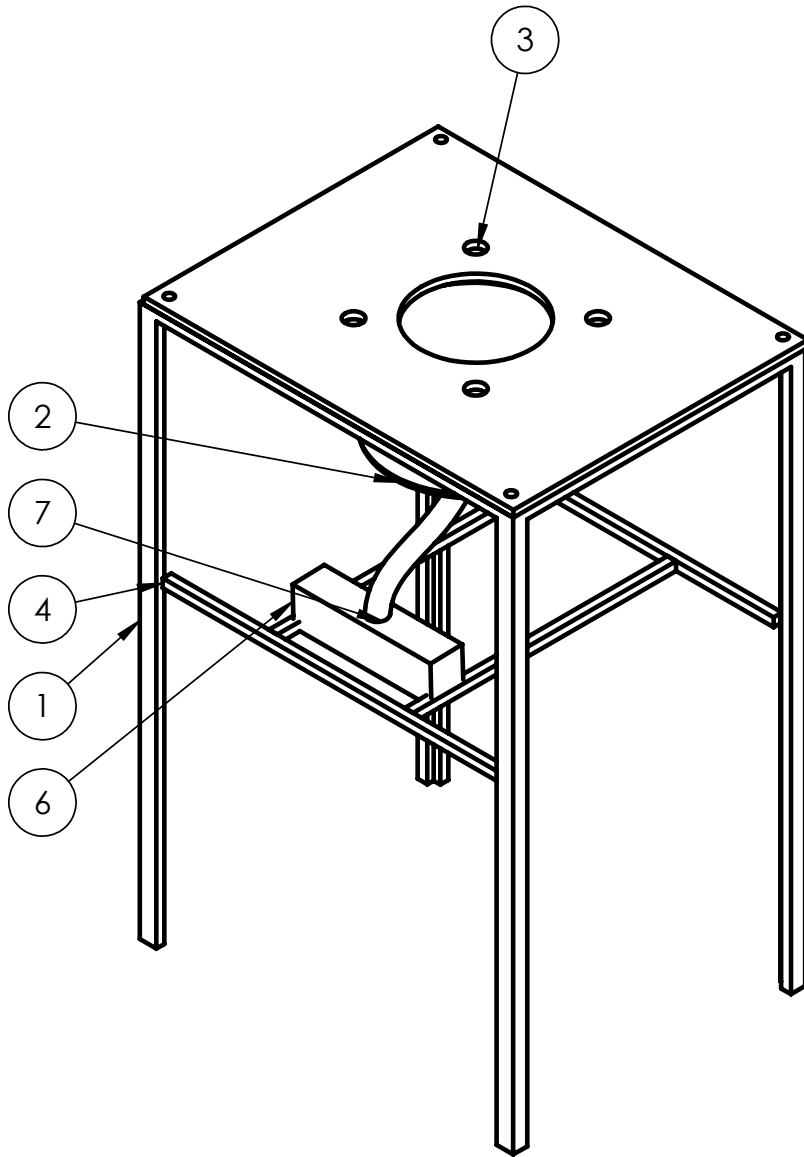
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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NOTES:

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3. 12" MODEL SCALE BY 3X



ITEM NO.	PART NUMBER	
1	PART PM-MA-FRAME-01 - Module Frame	1
2	PART PM-SD-SAUC-01 - Sauce dispenser	1
3	PART PM-CA-SAUC-01 - Mounting Plate Sauce	1
4	PART PM-SD-SAUC-01 - Sauce distributor mount	2
5	PART PM-SD-SAUC-01 - Sauce distributor mount	2
6	PART PM-SD-SAUC-01 - Sauce Dist Container	1
7	PART PM-SD-SAUC-01 - Sauce Tubing	1

KENNESAW STATE UNIVERSITY

ASSM PM-MA-DISP-01 - Sauce Dispensor Assembly

SCALE: 1:2

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

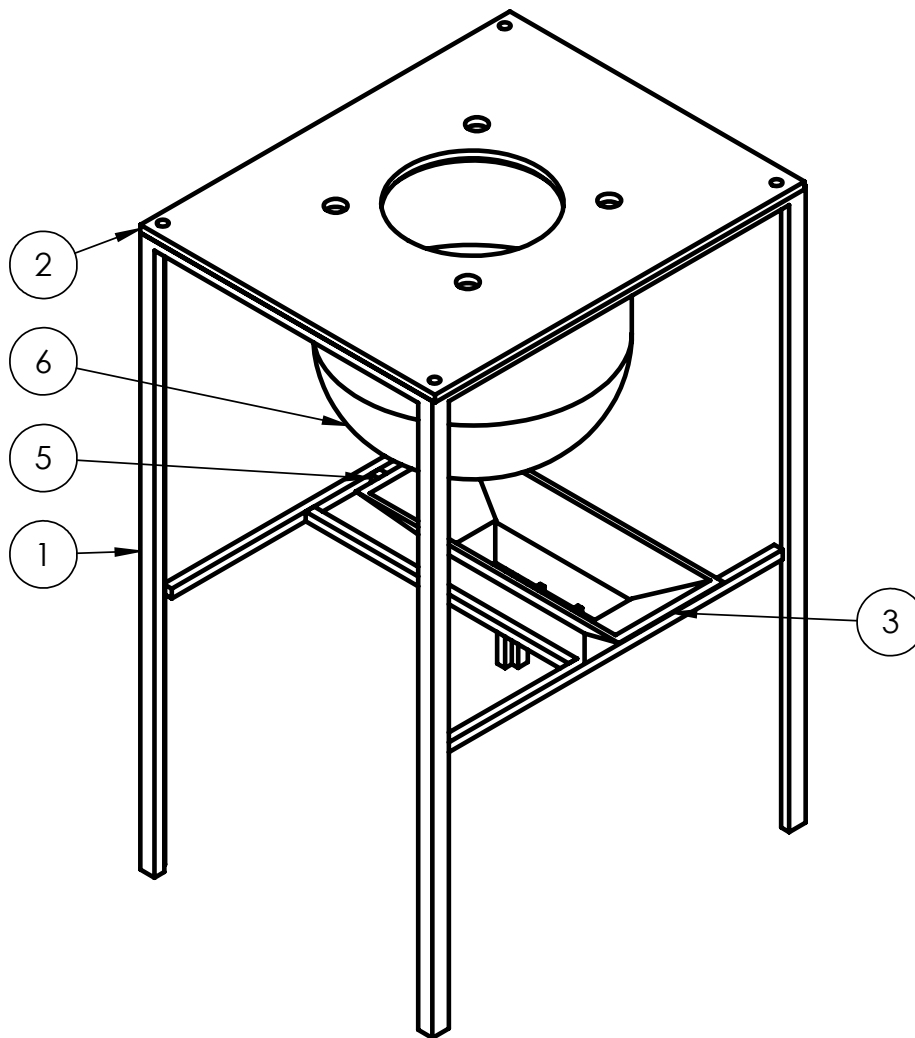
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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NOTES:

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3. 12" MODEL SCALE BY 3X



ITEM NO.	PART NUMBER	
1	PART PM-MA-FRAME-01 - Module Frame	1
2	PART PM-CA-SAUC-01 - Mounting Plate	1
3	PART PM-CA-SAUC-01 - Funnel	1
4	PART PM-SD-SAUC-01 - Sauce distributor mount	2
5	PART PM-SD-SAUC-01 - Sauce distributor mount	2
6	PART PM-SD-SAUC-01 - Sauce dispenser	1

KENNESAW STATE UNIVERSITY

ASSM PM-MA-DISP-01 - Cheese Dispenser Module

SCALE: 1:2

DATE: 12/6/2019

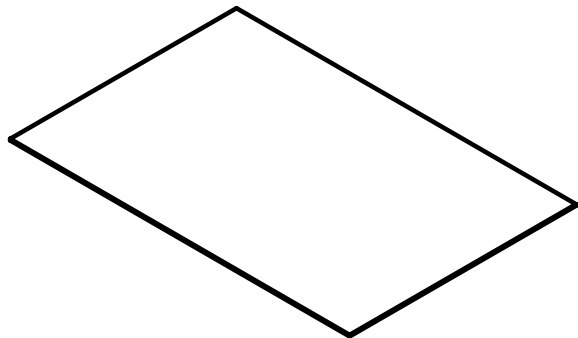
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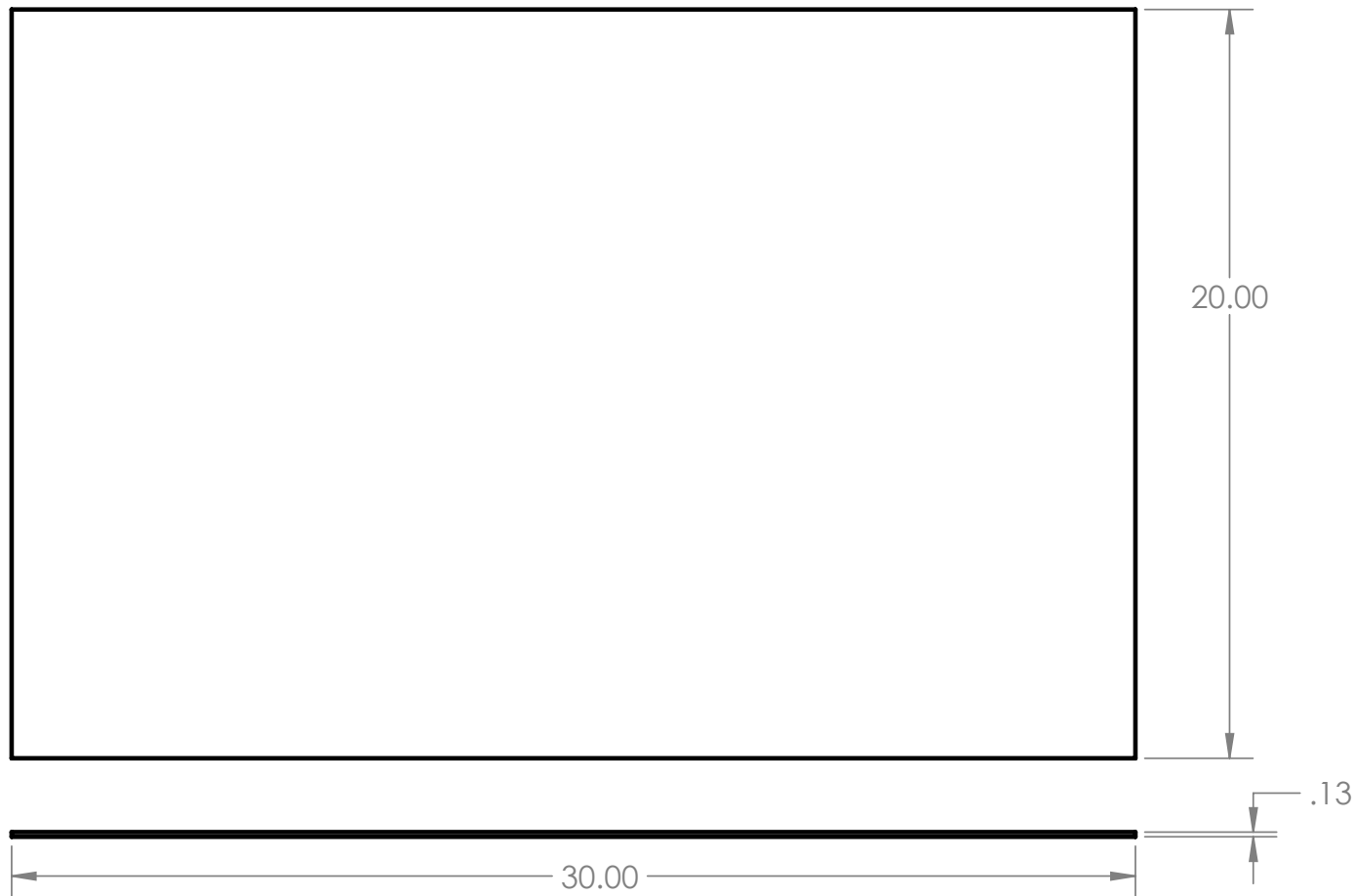
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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 3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-FF-FLOOR-01 - Main Factory Floor

SCALE: 1:5

DATE: 12/6/2019

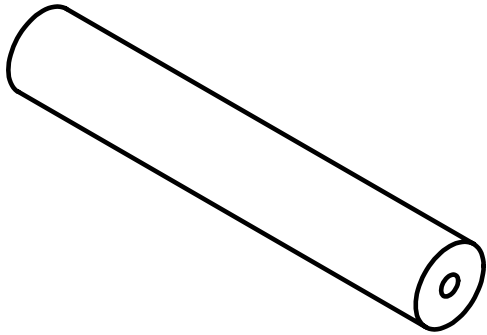
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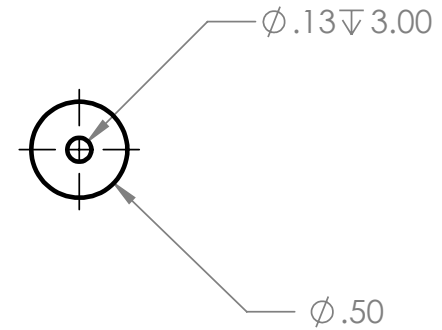
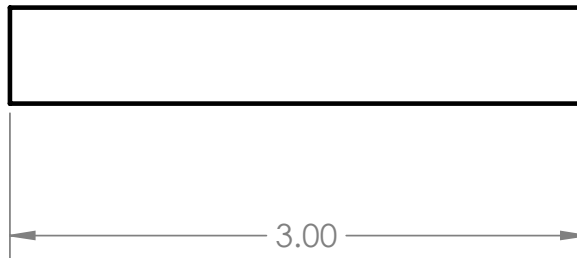
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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- NOTES:
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 3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-CA-ROLL-01 - Conveyor Roller

SCALE: 1:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

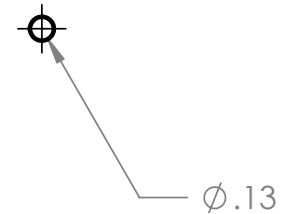
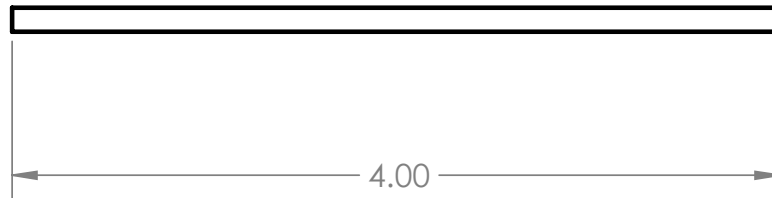
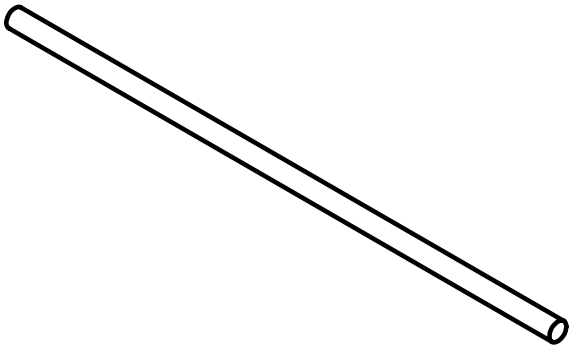
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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NOTES:

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3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-CA-AXLE-01 - Conveyor Axle

SCALE: 1:1

DATE: 12/6/2019

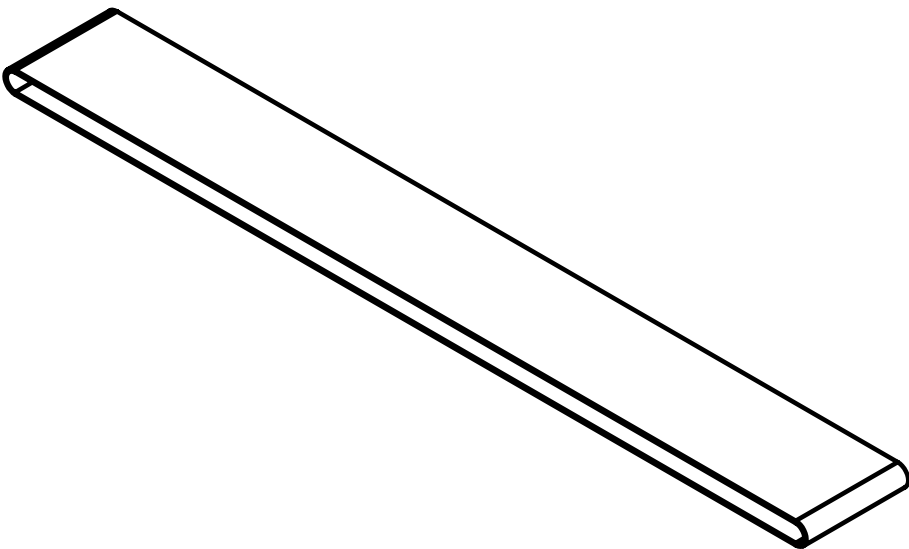
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SHEET NO.






AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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-  Configuration: 11"
-  Configuration: 12"
-  Configuration: 13"
-  Configuration: 14"
-  Configuration: 15"

-  Configuration: 23"
-  Configuration: 25"
-  Configuration: 26"
-  Configuration: 27"
-  Configuration: 28"

KENNESAW STATE UNIVERSITY		PART PM-CA-BELT-01 - Conveyor Belt	
SCALE: 1:4	DATE: 12/6/2019	DR. BY: VIVIAN NGUYEN	SHEET NO. 12 OF 35
AUTOMATED PIZZA ASSEMBLY		CAD BY: DANA FONG	

NOTES:

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3. 12" MODEL SCALE BY 3X



Configuration: 1"



Configuration: 11.5"



Configuration: 12"



Configuration: 13"



Configuration: 14"



Configuration: 14.5"



Configuration: 15"



Configuration: 15.5"



Configuration: 16"



Configuration: 23"



Configuration: 25"



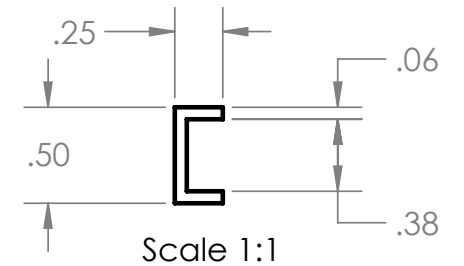
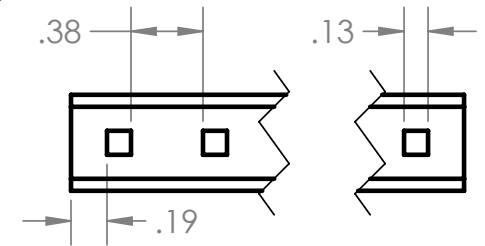
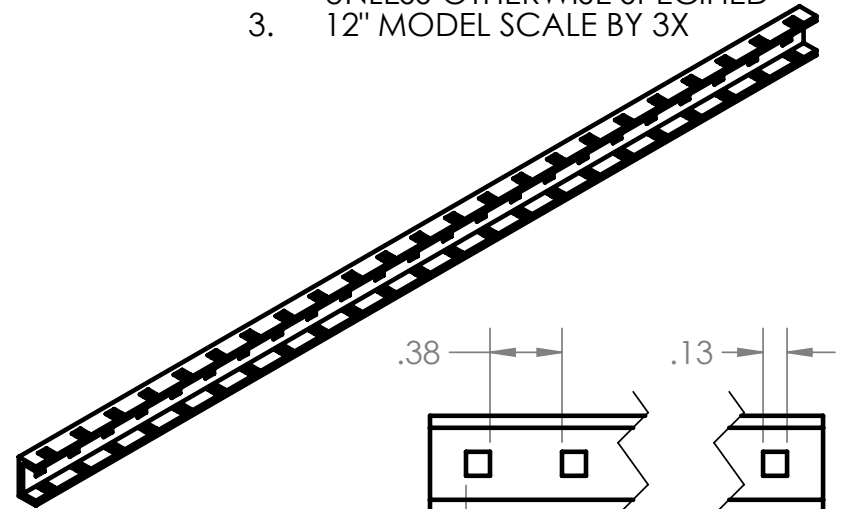
Configuration: 26"



Configuration: 27"



Configuration: 28"



KENNESAW STATE UNIVERSITY

PART PM-CA-FRAM-01 - Generic C Bar

SCALE: 1:4

DATE: 12/6/2019

DR. BY:

VIVIAN NGUYEN

SHEET NO.

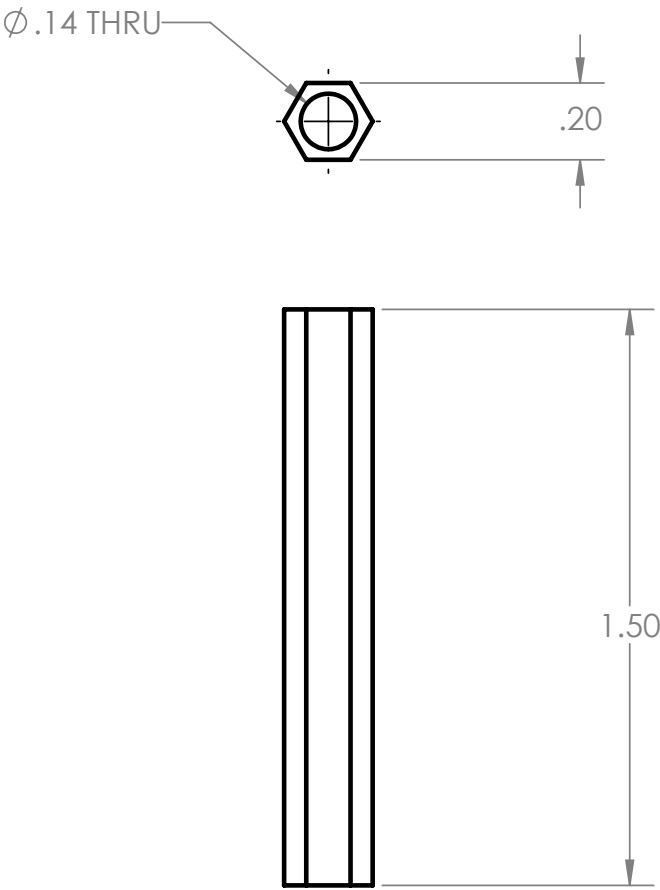
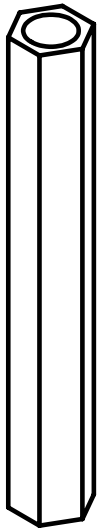
AUTOMATED PIZZA ASSEMBLY

CAD BY:

DANA FONG

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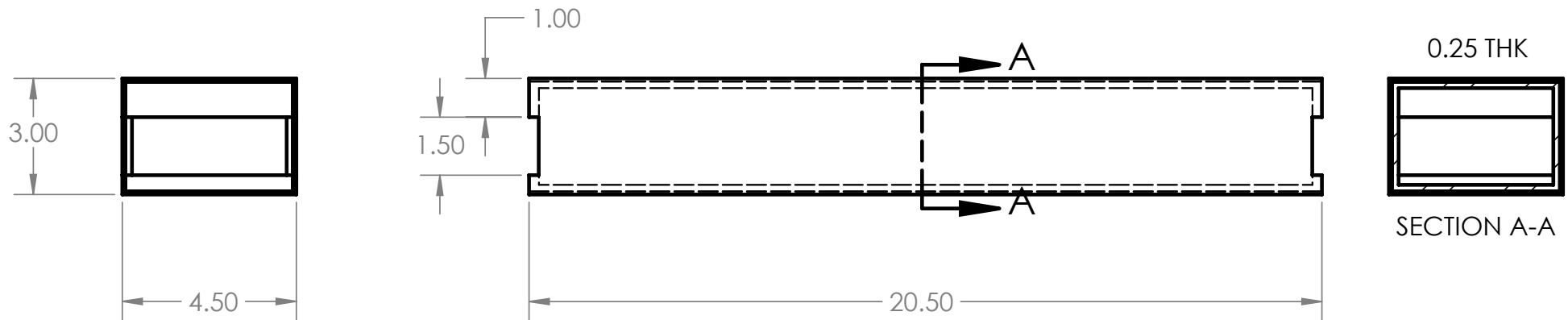
- NOTES:
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 - 2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
 - 3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY		PART PM-CA-SUPP-01 - Generic Supporting Hex Bar	
SCALE: 2:1	DATE: 12/6/2019	DR. BY: VIVIAN NGUYEN	SHEET NO. 14 OF 35
AUTOMATED PIZZA ASSEMBLY		CAD BY: DANA FONG	

NOTES:

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3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-OA-CASE-01 - Oven Case

SCALE: 1:4

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

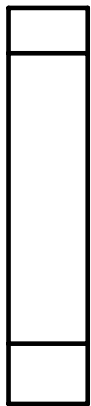
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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NOTES:

1. CRACKER MODEL DIMENSIONS
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3. 12" MODEL SCALE BY 3X



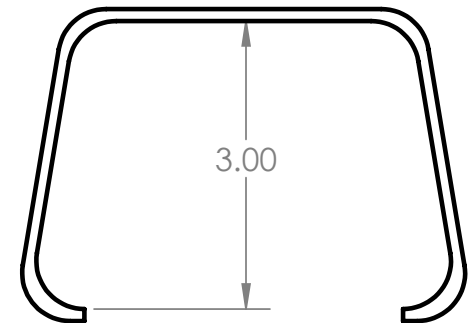
Configuration: 3.75"



Configuration: 3"



Configuration: 2.75"



KENNESAW STATE UNIVERSITY

PART PM-OA-SUPP-01 - Oven Stand

SCALE: 1:2

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

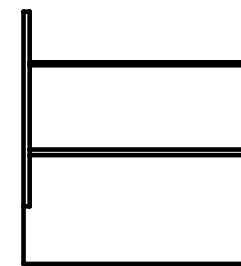
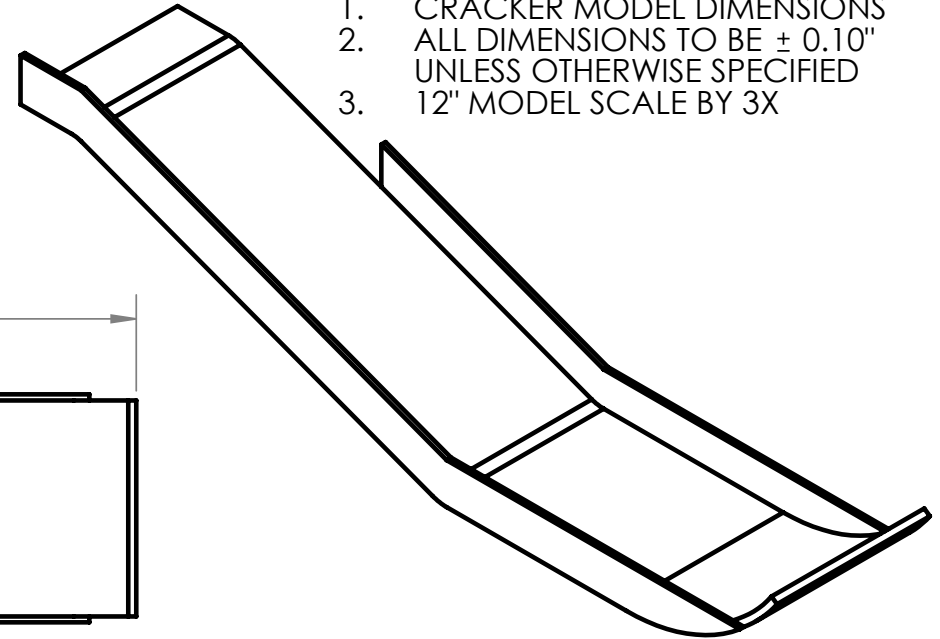
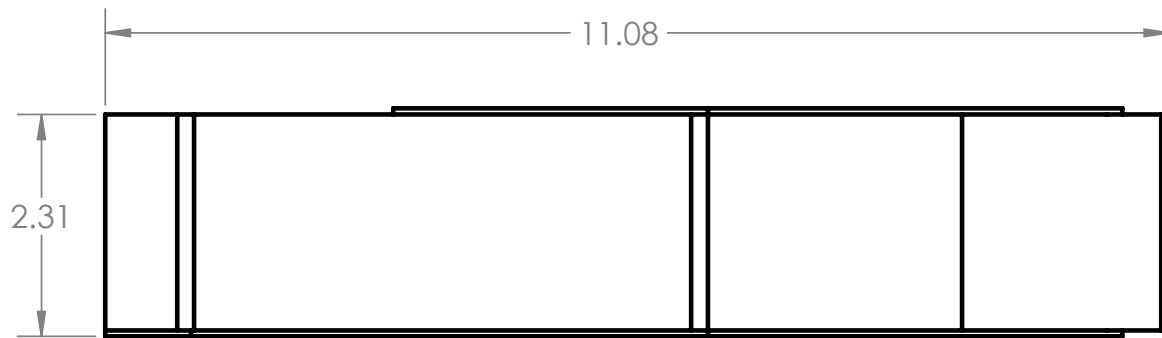
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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NOTES:

1. CRACKER MODEL DIMENSIONS
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3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-SA-SLIDE-01 - Slide

SCALE: 1:2

DATE: 12/6/2019

DR. BY:

VIVIAN NGUYEN

SHEET NO.

AUTOMATED PIZZA ASSEMBLY

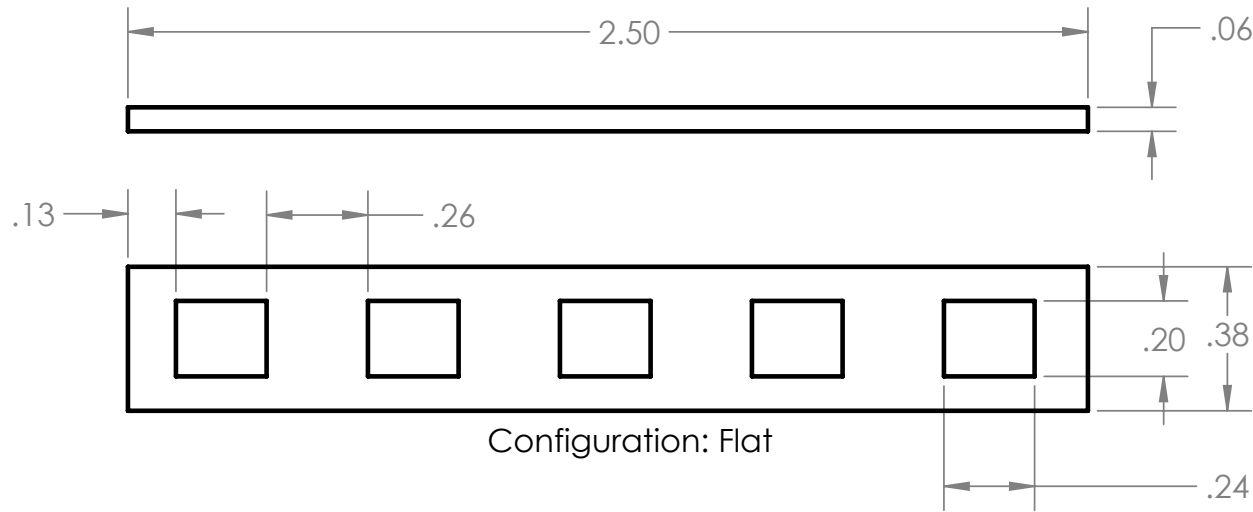
CAD BY:

DANA FONG

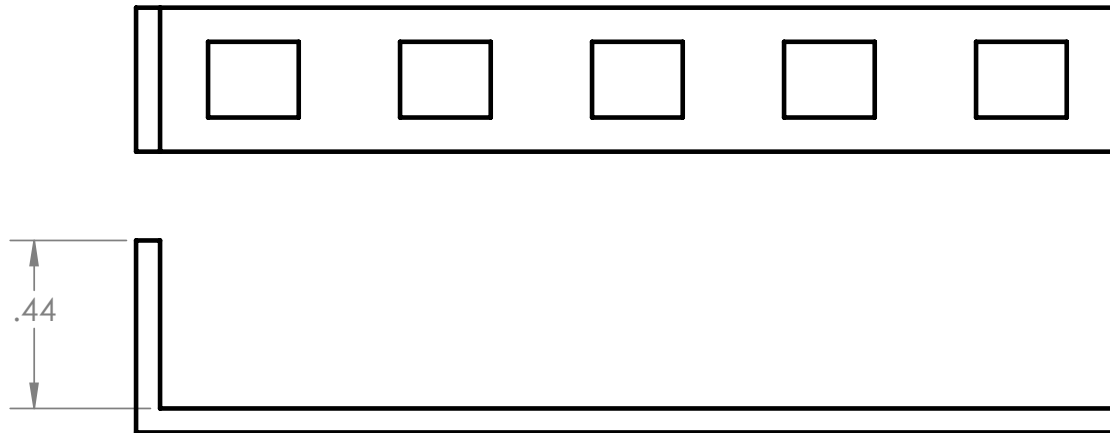
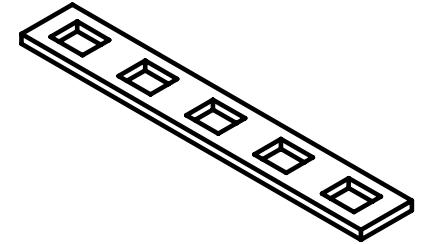
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NOTES:

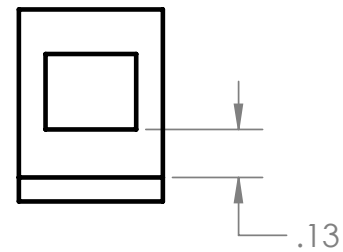
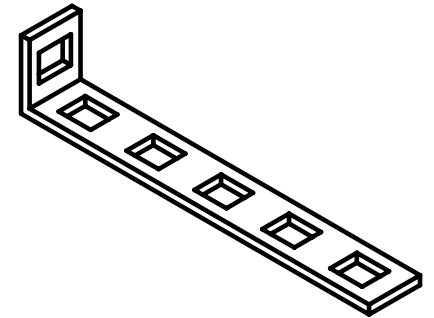
1. CRACKER MODEL DIMENSIONS
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3. 12" MODEL SCALE BY 3X



Configuration: Flat



Configuration: L Bracket



KENNESAW STATE UNIVERSITY

PART PM-CA-FRAM-02 - Thin Bar

SCALE: 2:1

DATE: 12/6/2019

DR. BY:

VIVIAN NGUYEN

SHEET NO.

AUTOMATED PIZZA ASSEMBLY

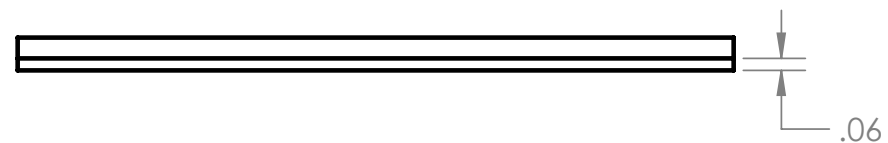
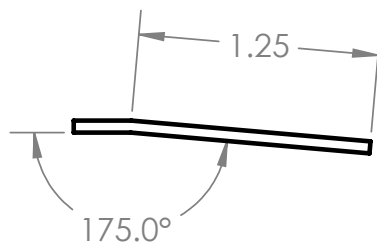
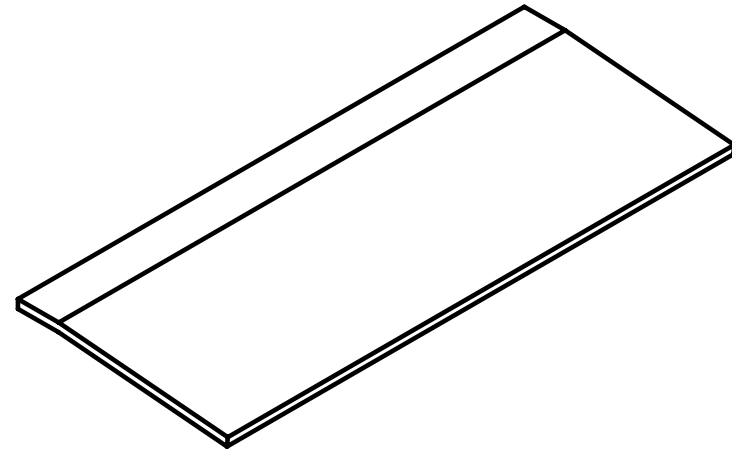
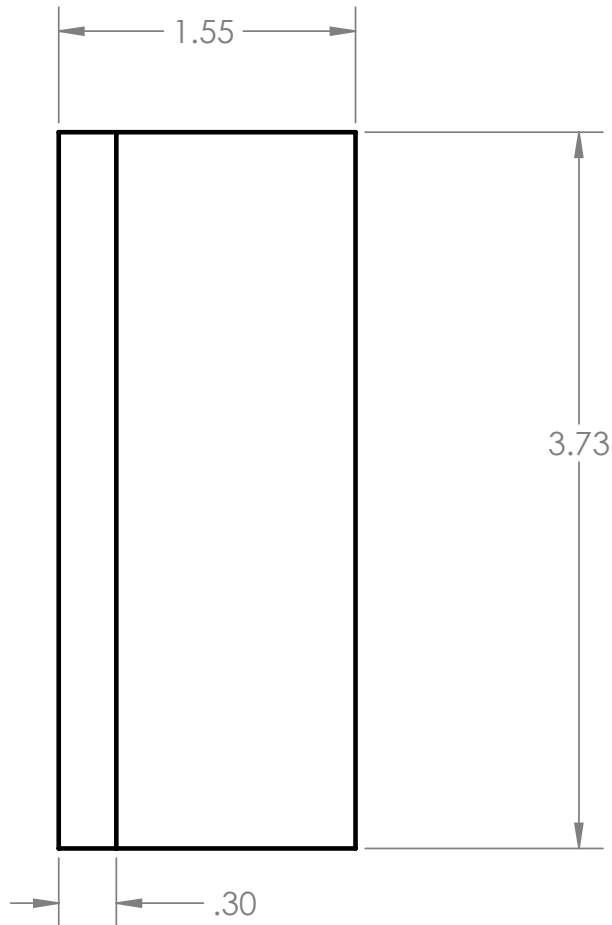
CAD BY:

DANA FONG

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NOTES:

1. CRACKER MODEL DIMENSIONS
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3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-CA-ELEV-01 - Conveyor Elevation balancer

SCALE: 1:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

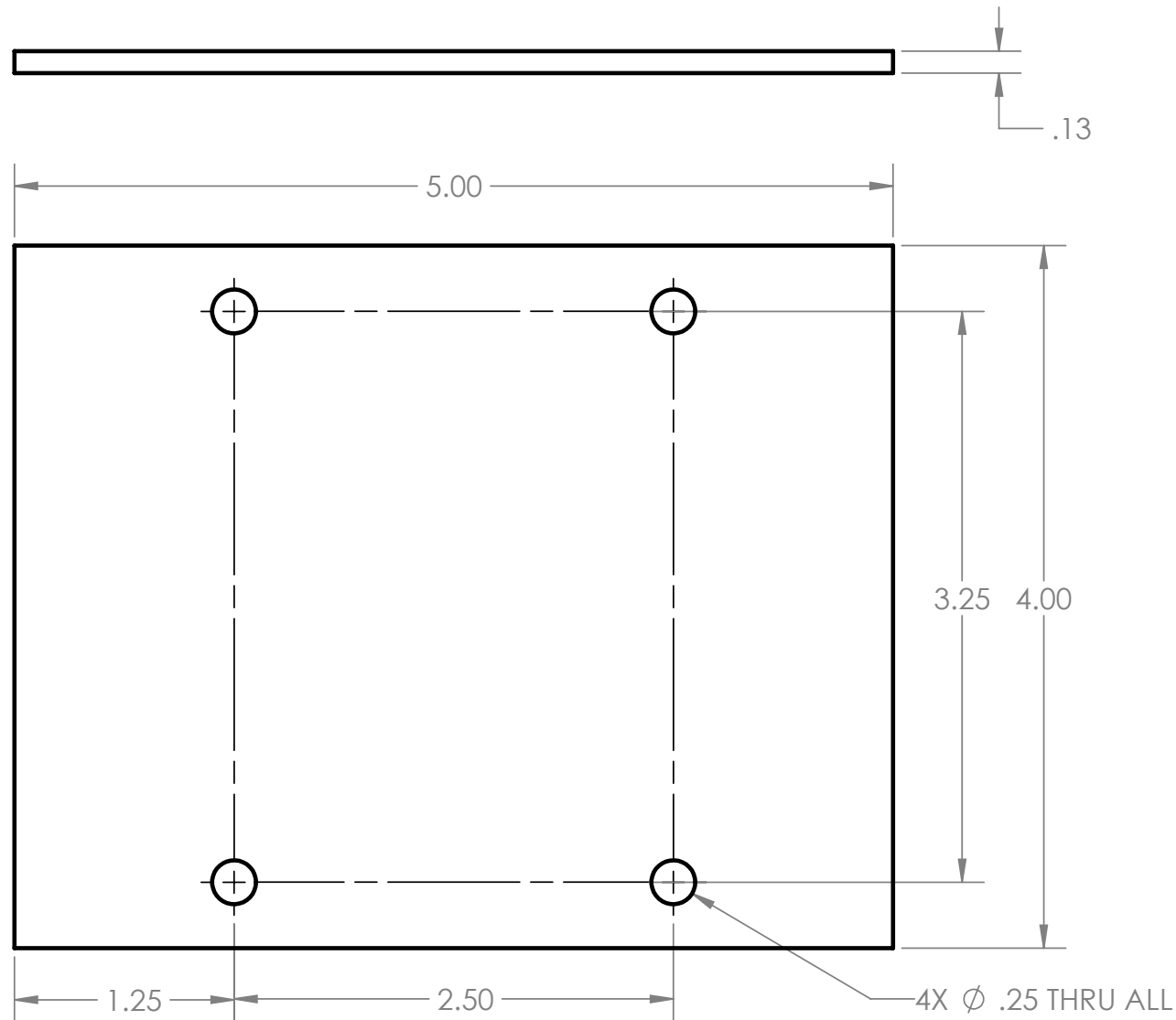
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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NOTES:

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3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-CA-MOUN-01 - Base Plate Cracker Mount

SCALE: 1:1

DATE: 12/6/2019

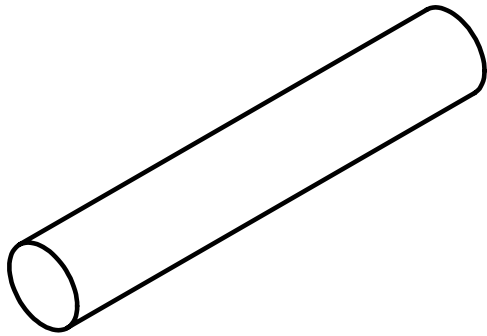
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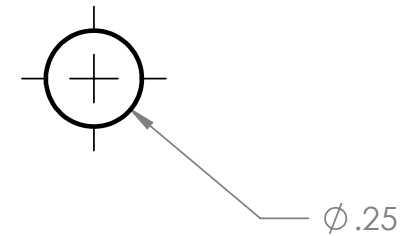
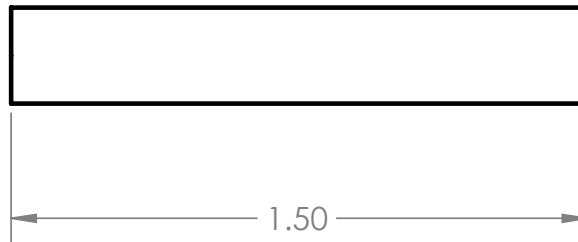
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

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- NOTES:
1. CRACKER MODEL DIMENSIONS
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 3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-MA-BEAM-01 - Beam

SCALE: 2:1

DATE: 12/6/2019

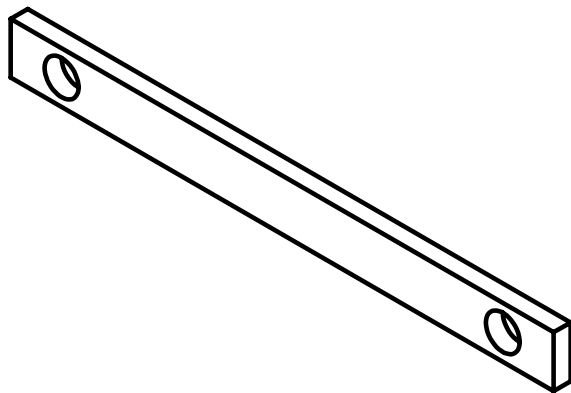
DR. BY: VIVIAN NGUYEN

SHEET NO.

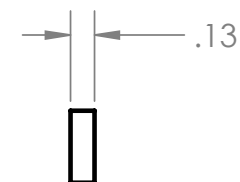
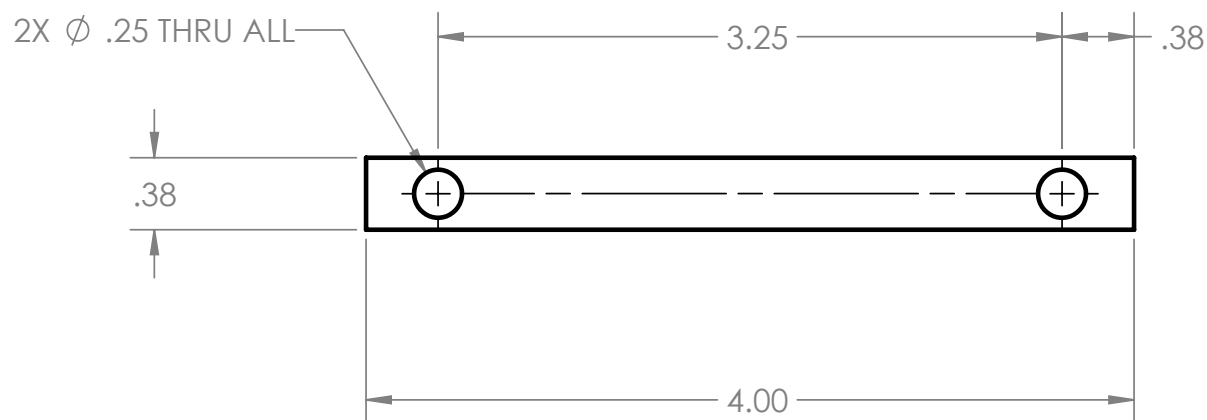
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

21 OF 35



- NOTES:
1. CRACKER MODEL DIMENSIONS
 2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
 3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-CA-CRAC-01 - Ribbon Plate

SCALE: 1:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

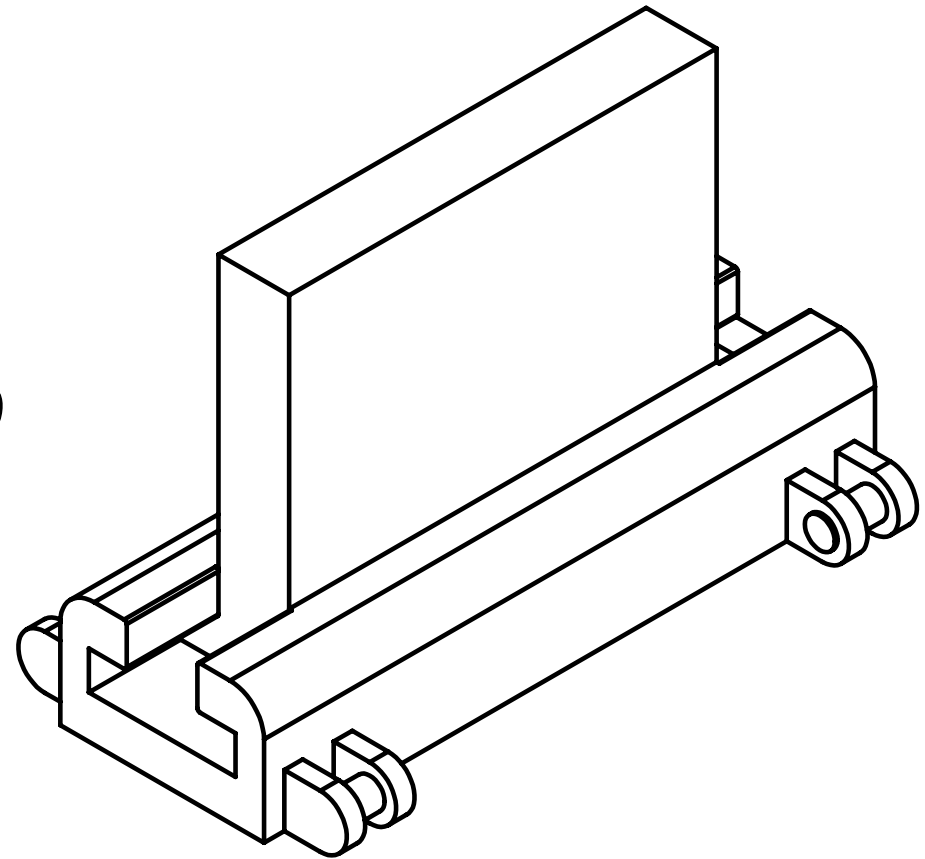
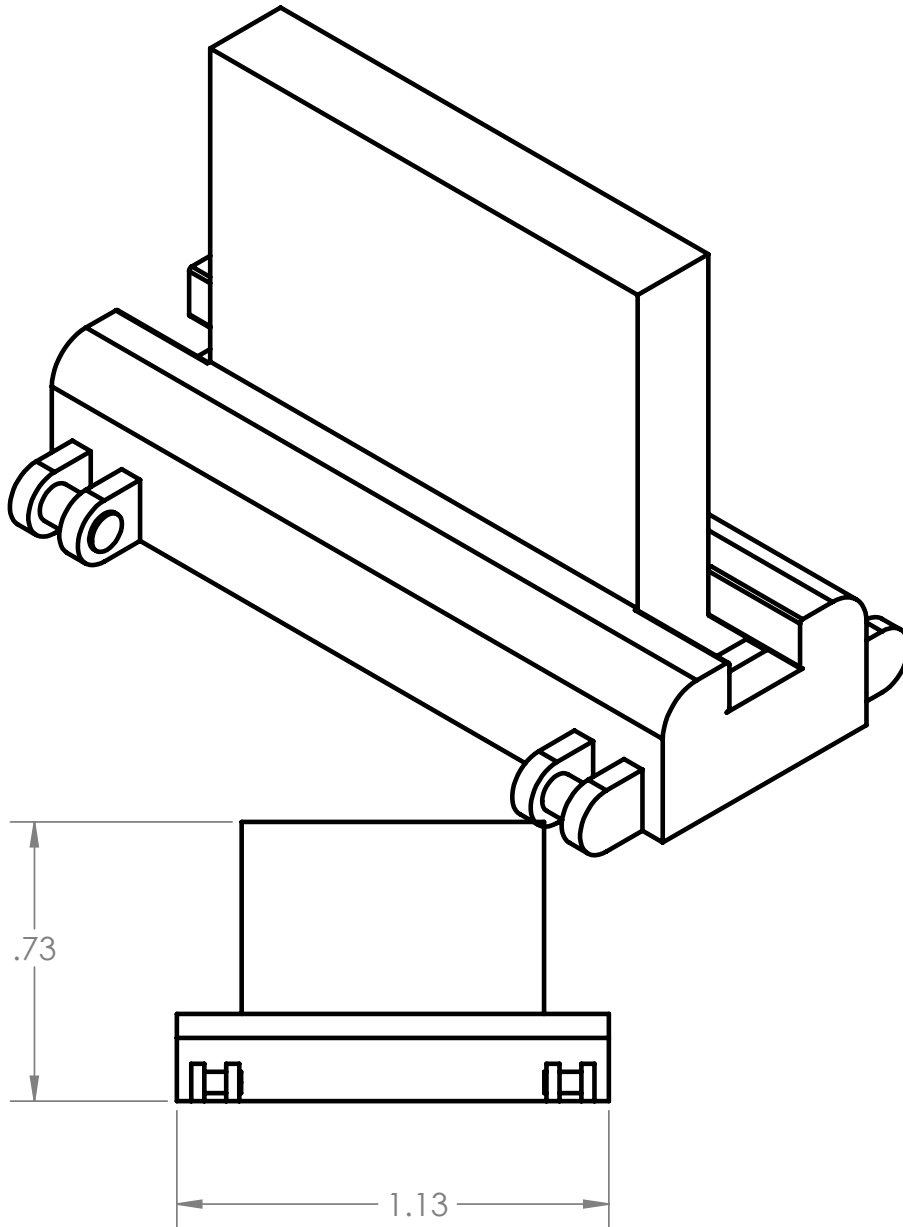
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

22 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X
4. THIS PART IS INTENDED FOR 3D PRINTING AS AN INTERLOCKING PART



KENNESAW STATE UNIVERSITY

PART PM-MA-CONN-01 - Conveyor Bracket

SCALE: 2:1

DATE: 12/6/2019

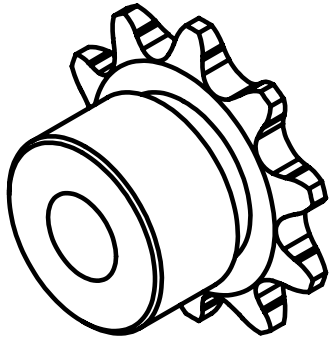
DR. BY: VIVIAN NGUYEN

SHEET NO.

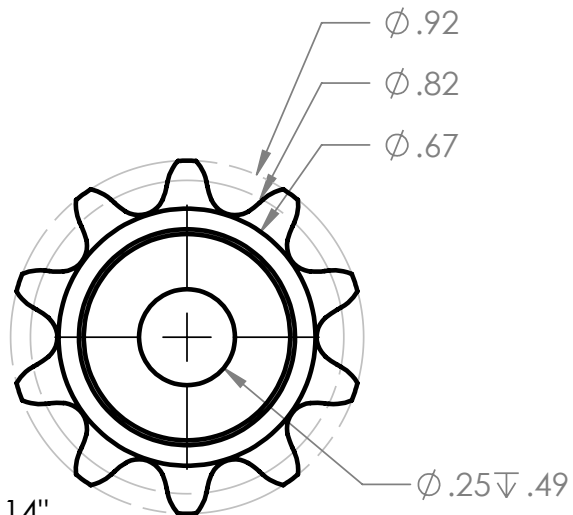
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

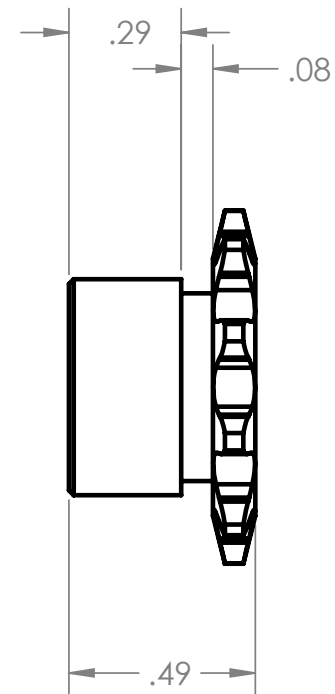
23 OF 35



- NOTES:
1. CRACKER MODEL DIMENSIONS
 2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
 3. 12" MODEL SCALE BY 3X



Pitch: 0.14"
No. Teeth: 10
Pitch Circle Diameter: 0.82"



KENNESAW STATE UNIVERSITY

PART PM-CA-GEAR-01 - 60425K130_NYLON MACHINABLE-BORE SPROCKET

SCALE: 2:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

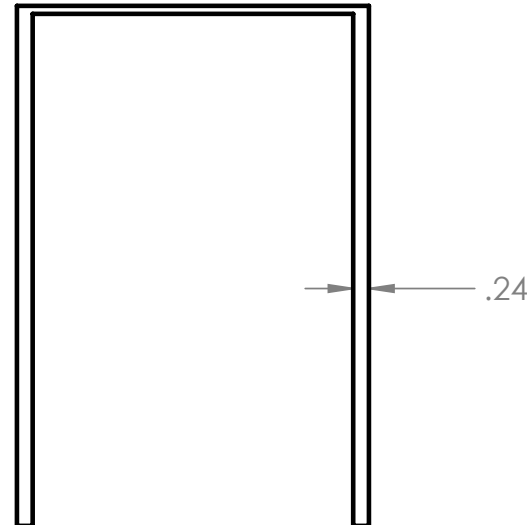
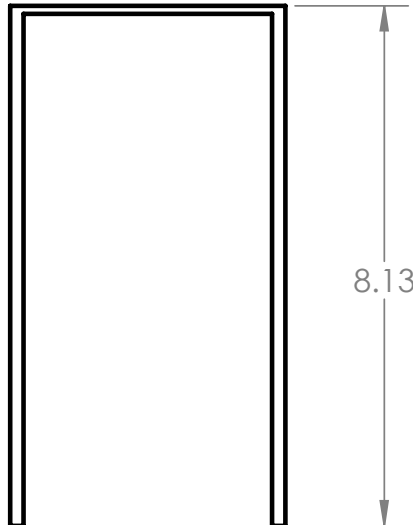
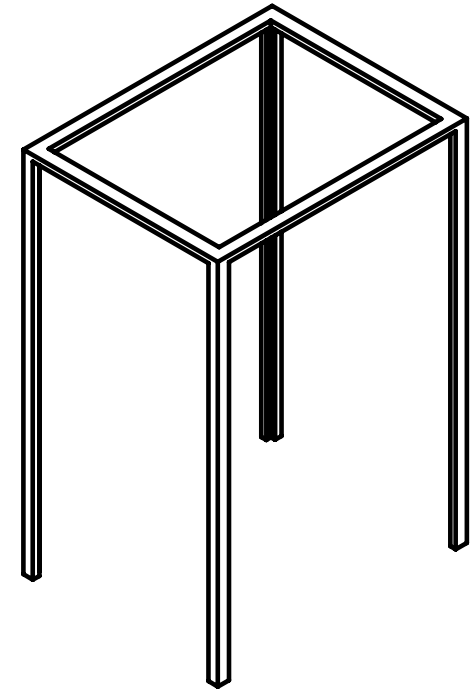
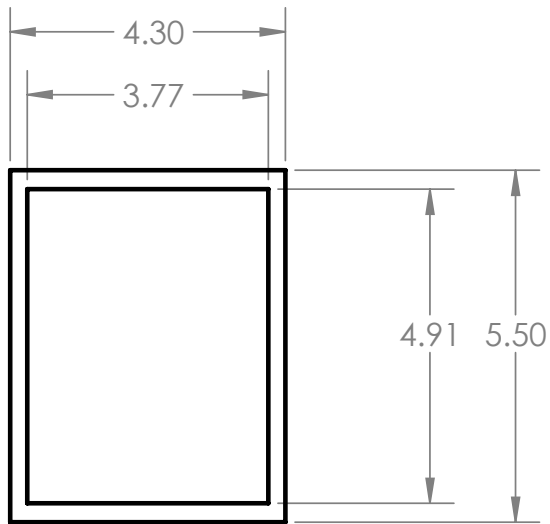
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

24 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-MA-FRAME-01 - Module Frame

SCALE: 1:3

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

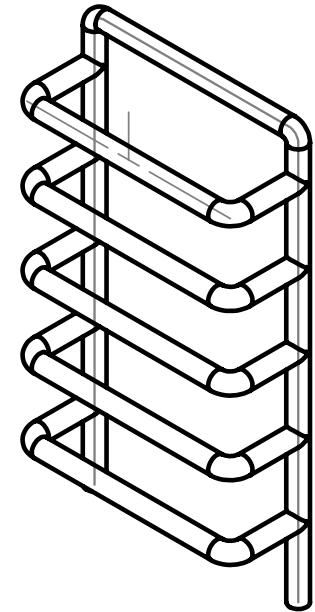
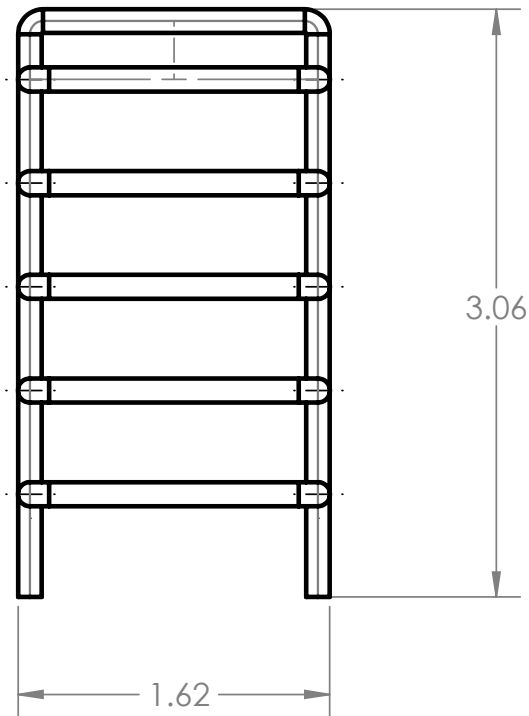
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

25 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X
4. THIS PART IS DESIGNED TO BE 3D PRINTED



KENNESAW STATE UNIVERSITY

PART PM-CA-PREP-01 - Pizza dough stand

SCALE: 1:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

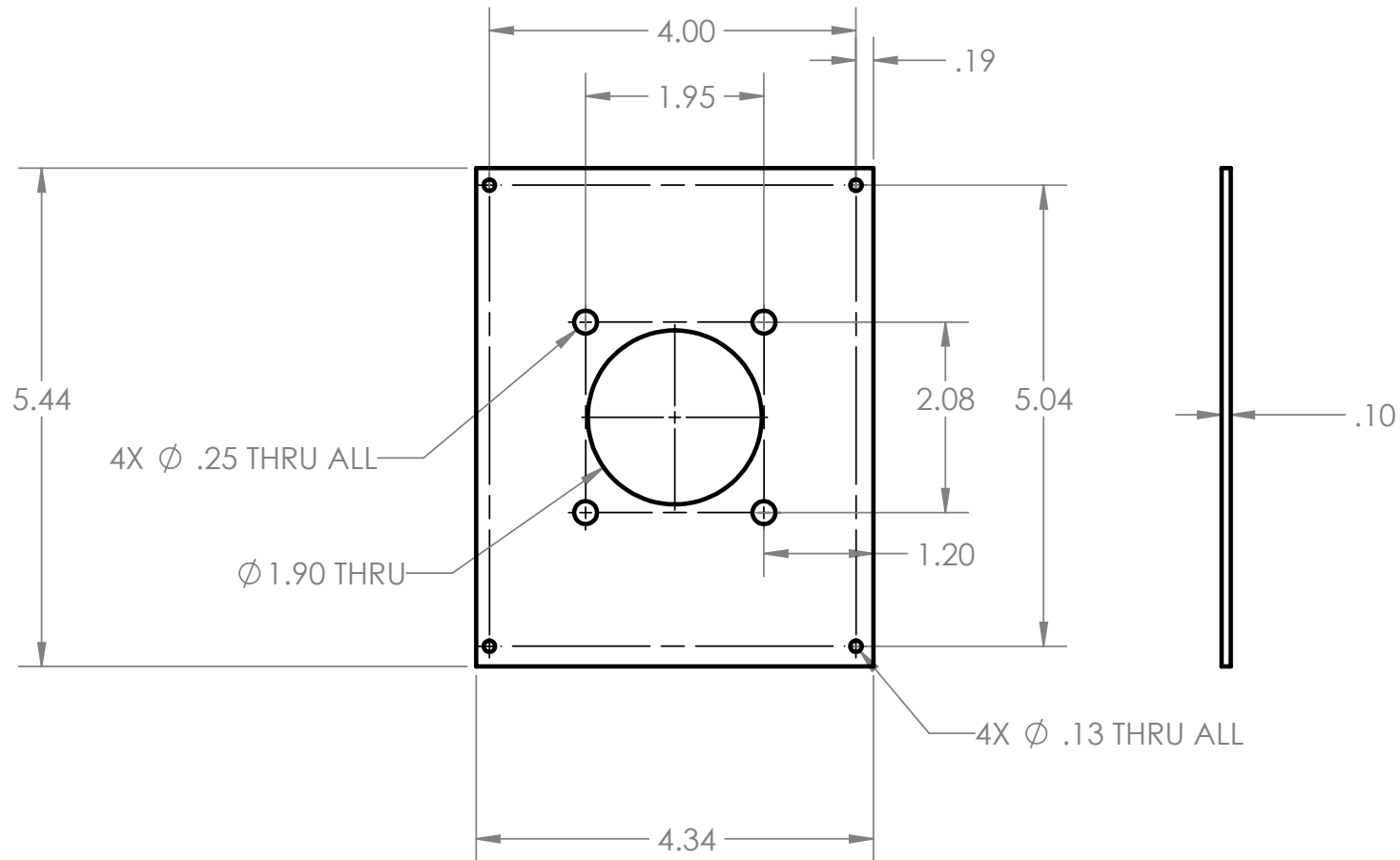
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

26 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE ± 0.10 " UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-CA-SAUC-01 - Mounting Plate

SCALE: 1:2

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

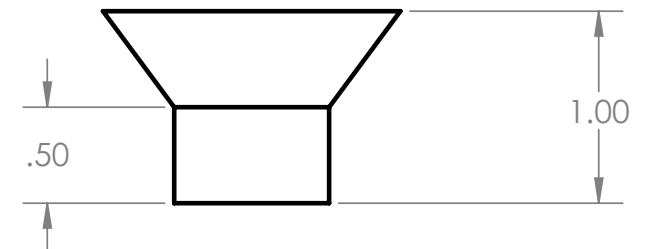
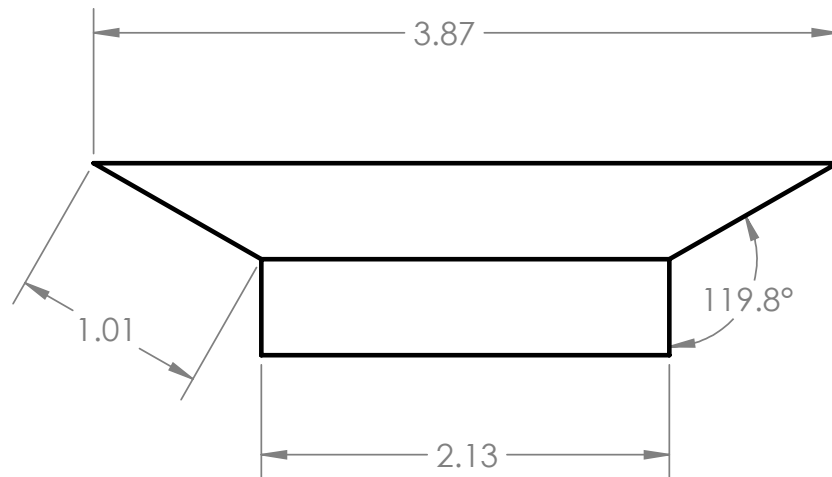
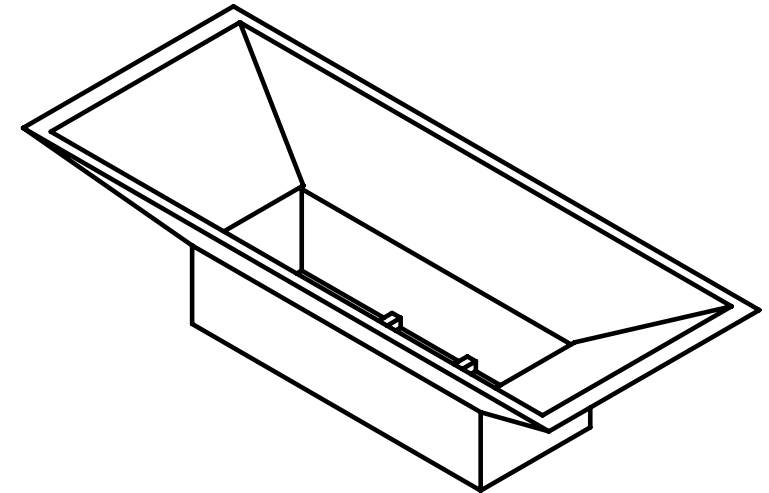
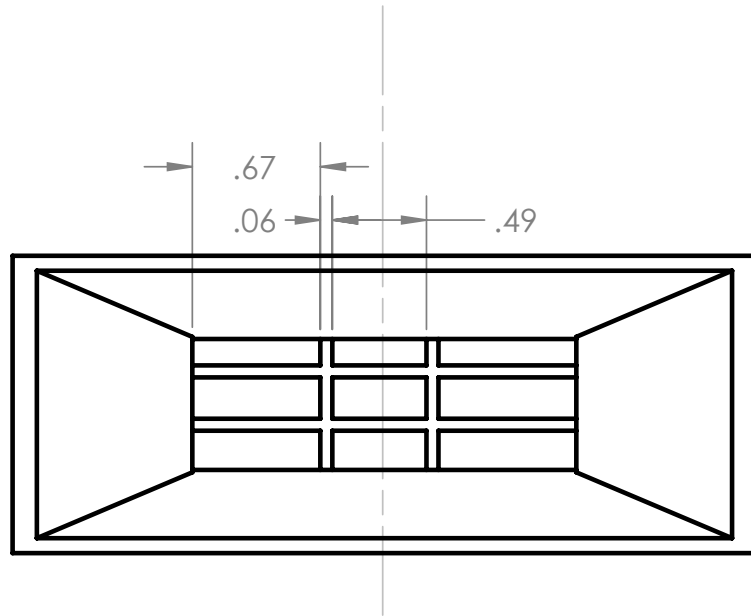
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

27 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-CA-SAUC-01 - Funnel

SCALE: 1:1

DATE: 12/6/2019

DR. BY:

VIVIAN NGUYEN

SHEET NO.

AUTOMATED PIZZA ASSEMBLY

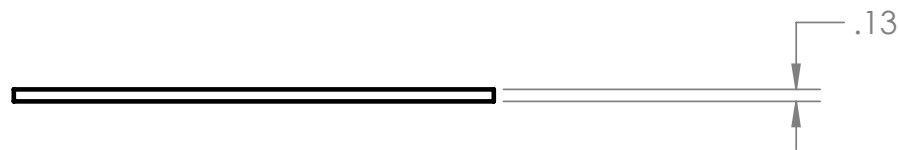
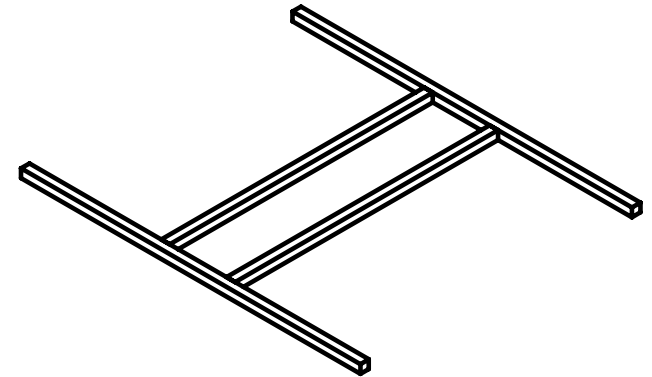
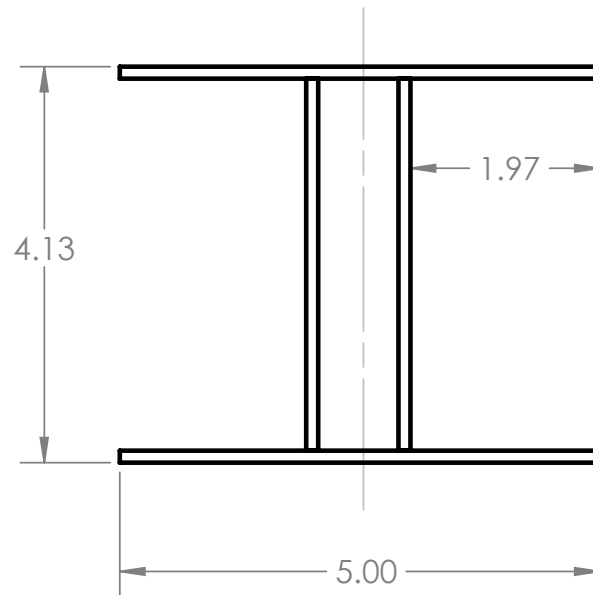
CAD BY:

DANA FONG

28 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

ASSM PM-CA-SAUC-01 - Sauce distributor mount

SCALE: 1:2

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

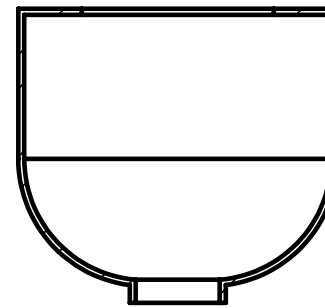
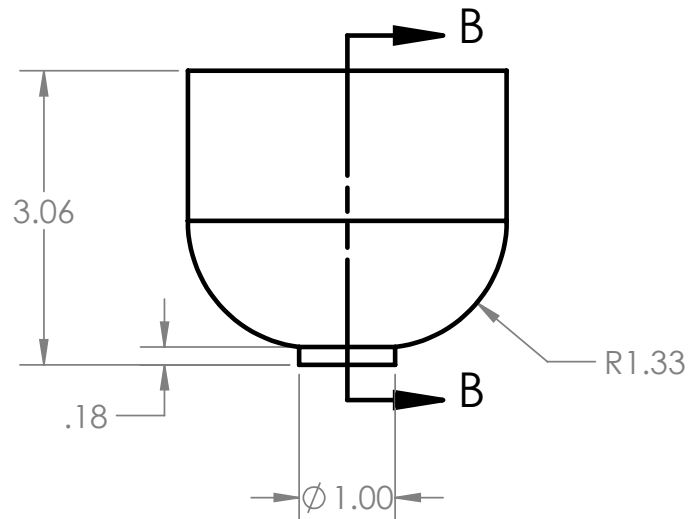
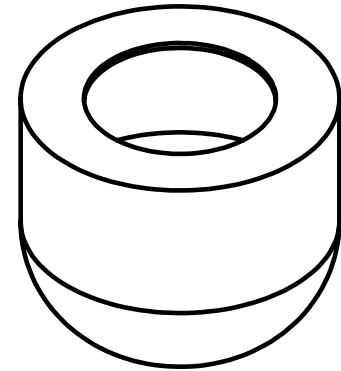
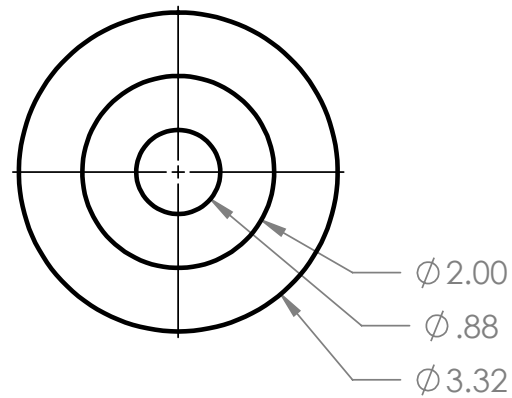
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

29 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X
4. PART IS SHELL 0.10 THK



SECTION B-B

KENNESAW STATE UNIVERSITY

PART PM-SD-SAUC-01 - Sauce dispenser

SCALE: 1:2

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

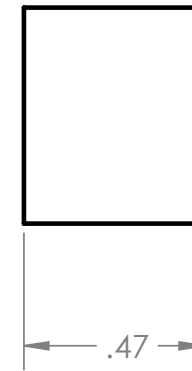
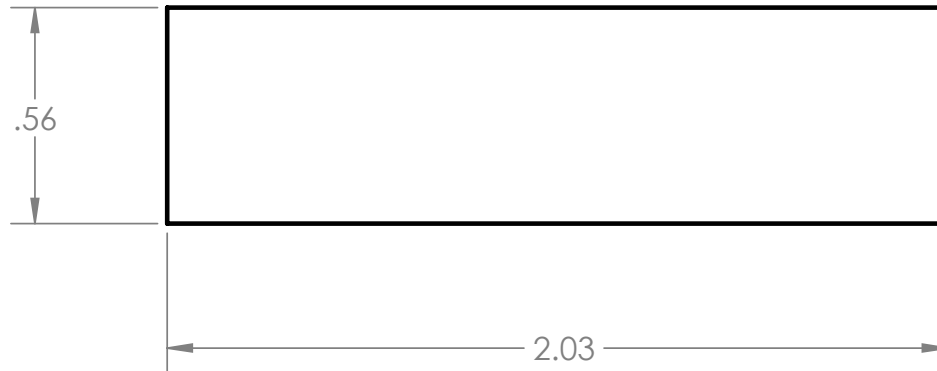
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

30 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X
4. THIS IS A PLACEHOLDER PART



KENNESAW STATE UNIVERSITY

PART PM-SD-SAUC-01 - Sauce Dist Container

SCALE: 2:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

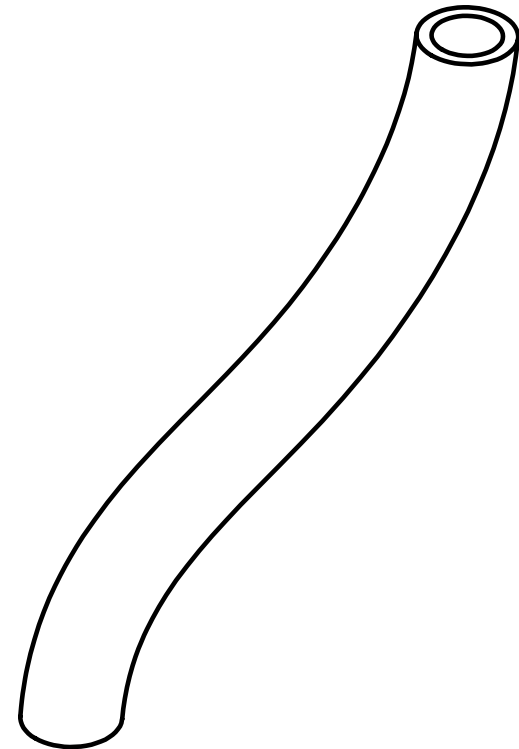
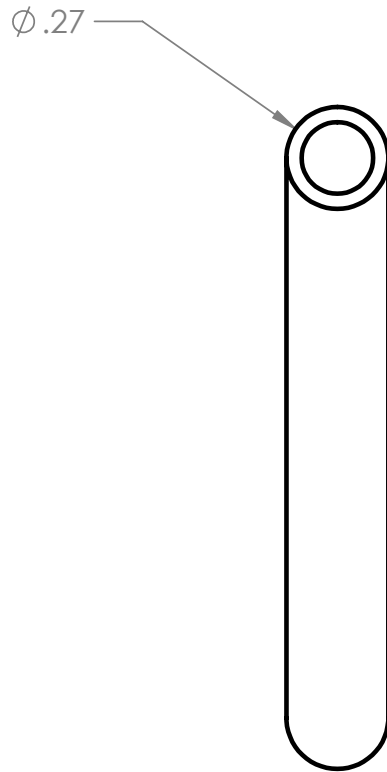
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

31 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X
4. USE ANY PVC TUBE $\sim \varnothing 0.3"$



KENNESAW STATE UNIVERSITY

PART PM-SD-SAUC-01 - Sauce Tubing

SCALE: 2:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

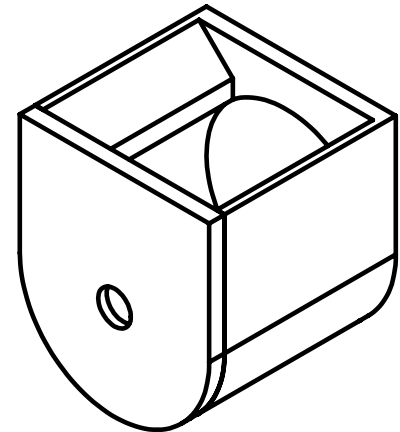
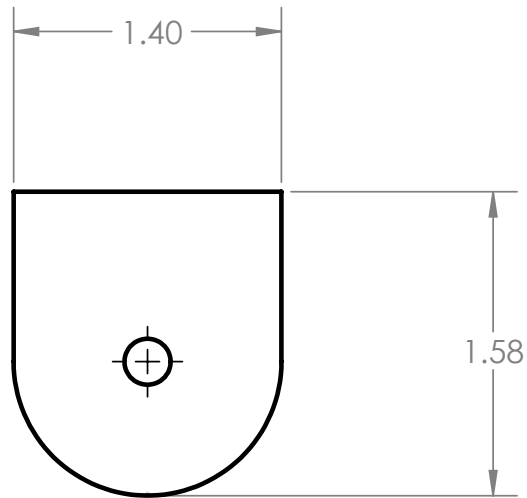
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

32 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X
4. THIS PART WAS DESIGNED FOR 3D PRINTING



KENNESAW STATE UNIVERSITY

PART PM-MA-CASE- 01 - Wheel Dispenser Case

SCALE: 1:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

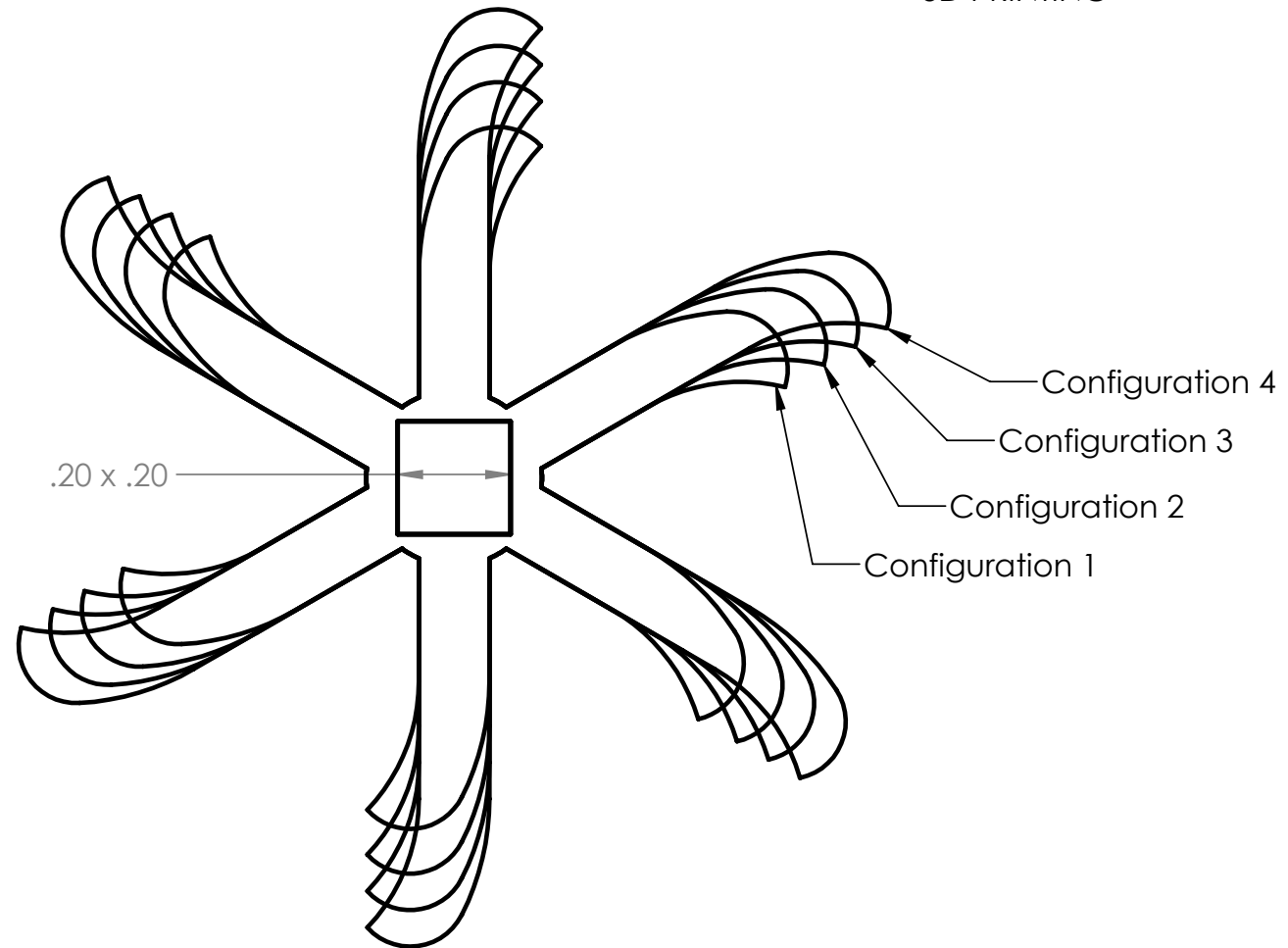
AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

33 OF 35

NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X
4. THIS PART WAS DESIGNED FOR 3D PRINTING



KENNESAW STATE UNIVERSITY

PART PM-MA-DISP-01 - Cheese Portioning Wheel

SCALE: 3:1

DATE: 12/6/2019

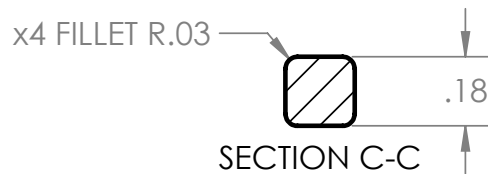
DR. BY: VIVIAN NGUYEN

SHEET NO.

AUTOMATED PIZZA ASSEMBLY

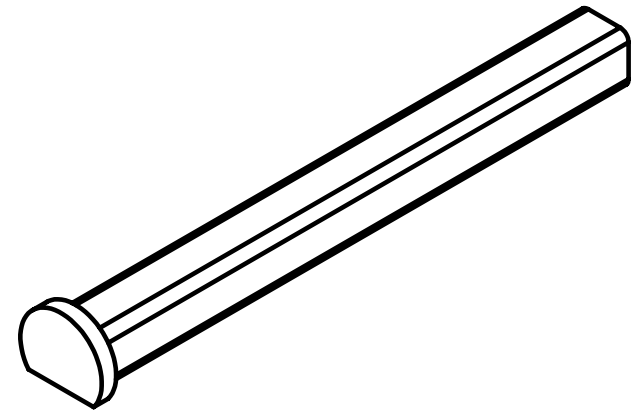
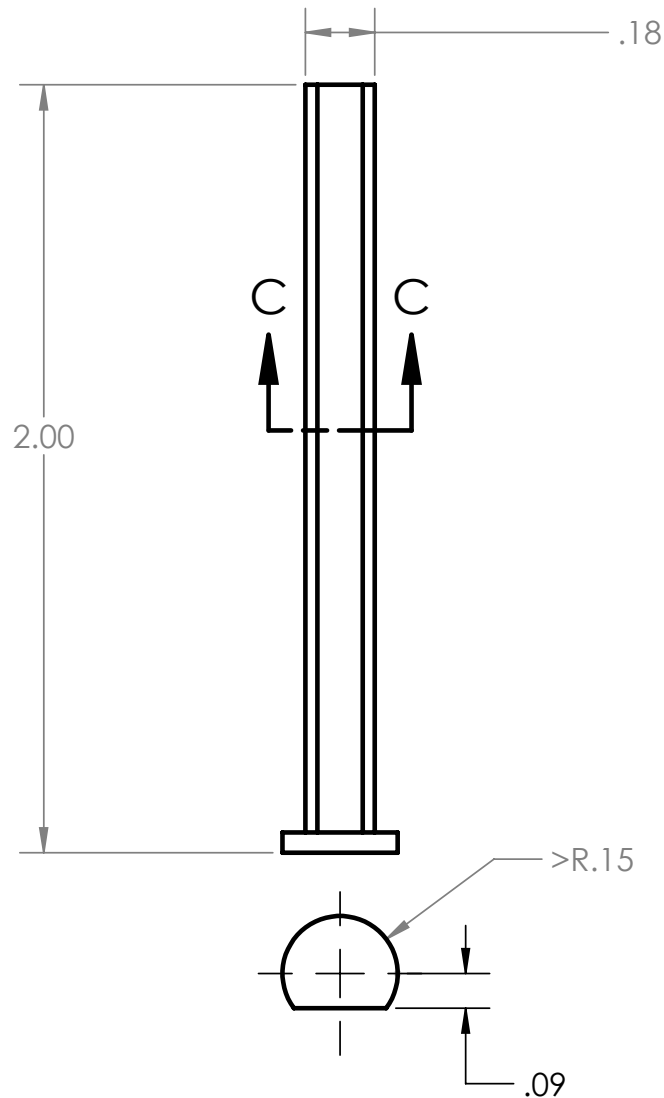
CAD BY: DANA FONG

34 OF 35



NOTES:

1. CRACKER MODEL DIMENSIONS
2. ALL DIMENSIONS TO BE $\pm 0.10"$ UNLESS OTHERWISE SPECIFIED
3. 12" MODEL SCALE BY 3X



KENNESAW STATE UNIVERSITY

PART PM-MA-AXEL-01 - Square Axle

SCALE: 2:1

DATE: 12/6/2019

DR. BY: VIVIAN NGUYEN

SHEET NO.

AUTOMATED PIZZA ASSEMBLY

CAD BY: DANA FONG

35 OF 35