

An aerial, black and white photograph of a marina. On the left, a tall, modern building with many windows and balconies stands on the waterfront. The water is filled with several boats, including a large motor yacht and a smaller boat. Numerous wooden docks and piers extend into the water, with palm trees and other vegetation on the land. In the foreground, a paved area features a car, some outdoor seating with tables and chairs, and a staircase leading down to the water. The overall scene is a busy waterfront area.

# GOLDEN<sup>®</sup>

MARINE SYSTEMS | ENGINEERING PACKAGE

I would like to take this opportunity to introduce you to our Golden Floating Dock Systems. Our systems range from light-duty residential to mega-yacht marina capacity. Our dock systems come in both aluminum and concrete applications. Our hope is that this introduction will give you the knowledge and understanding of our dock systems so that you may consider Golden Marine Systems in your next project's design specifications. Enclosed, for your review are brochures, overview drawings, and photos of past project respective of the dock system.

Golden is a Florida corporation and is located in North Fort Myers. The company principal, Bill Golden, has been in the marina industry for over 40 years. Over the years Golden has been leading the way with new and innovative marine products and projects. Many of these have received industry accolades and awards.

The present facility consists of 56,000 + sq. ft. of manufacturing floor space and administrative offices. All engineering, drafting, and manufacturing is done in house and does not utilize any subcontractors. The manufacturing processes are regulated under strict policies and procedures under ISO 9000:2015 guidelines. At present, Golden Marine has 80 staff members with responsibilities ranging from design, engineering, manufacturing, sales, administration, managerial, safety, and quality assurance.

All staff are vetted for their expertise and trained monthly in safety, new techniques, six sigma practices.

We are always available to lend support and answer any questions you may have to help you design your next project around a Golden product.

Thank you in advance for reviewing the enclosed materials provided. I would like to follow up within the next week to assure that you have received our package and answer any questions you may have. If you need to contact me prior to my follow up, please do not hesitate to contact me at 239.337.4141.

Kindest regards,

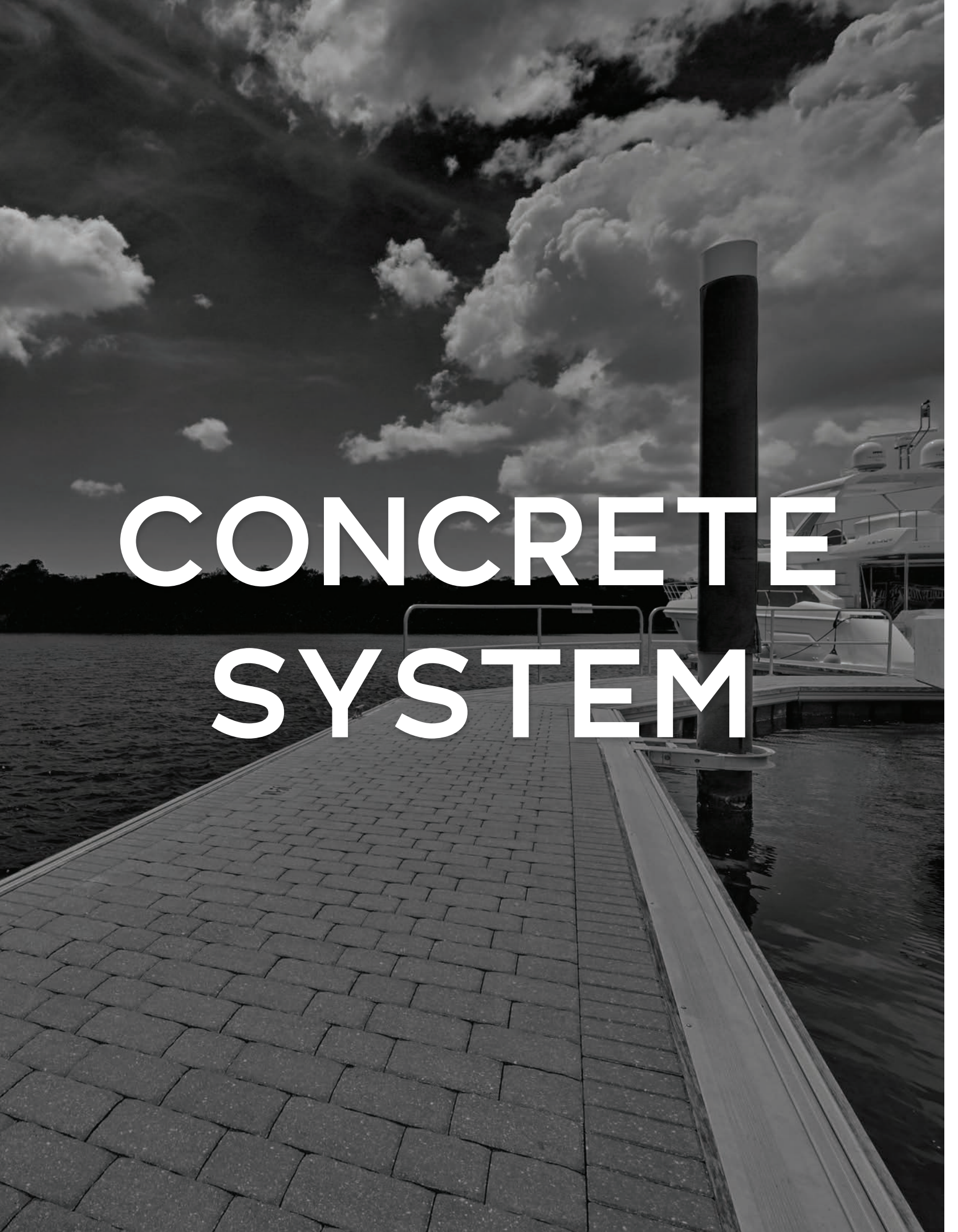


Michael Shanley, President



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# CONCRETE SYSTEM

# CONCRETE SYSTEM

PATENT # 6,250,945

## FLOTATION MODULE

- Design is a polyethylene plastic shell encasing a closed-cell EPS (expanded polystyrene) core.
- The polyethylene is specially treated to resist UV deterioration.
- The EPS foam core has a weight of .95-1.10 lb. per cubic ft. conforming to ASTM standard specification C-578.
- The EPS foam has a water absorption rate of less than 1 percent in twenty-four hours, with a maximum of three (3) the percent by volume as tested by ASTM method C-272.

## CONCRETE SURFACE

- Air-entrained Portland Cement Type I conforming to ASTM C 150.
- The reinforced concrete surface has a minimum thickness of 2 inches with structural ribs 5 ½" thick.
- The walking deck is poured in one monolithic pour over a galvanized welded wire reinforcement that meets ASTM standard A-185 or polymerized glass fiber reinforced concrete is used with a compression strength of 5,000 psi. at 28-days with flexural strength minimum of 1,500psi when tested in accordance with ASTM C 1018.
- The surface is trowel finished with a broom non-skid texture that is applied transversely to the walking surface creating a long-lasting slip-resistant finish.
- The floating module allows for an individual concrete pour or the insertion of a pre-stressed, pre-cast concrete slab.
- Concrete design options also include the choice of concrete colors and stamped patterns.

## UTILITY RACE COVERS

- Service trough covers are custom knurled 6061-T6 grade aluminum. Service troughs are secured with a 300 series stainless screw.

# **CONCRETE SYSTEM**

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**PATENT # 6,250,945**

## **ALUMINUM WHALER**

- 6061-T6 grade aluminum
- The extrusion is designed with track systems to allow for adjustable cleats, pile guides, and finger piers
- Aluminum whalers come predrilled at 12" intervals to accept the thru rods
- The extrusion measure at 8" h x 3.5" w. To further reinforce the extrusion a 2" x 2" custom channel is inserted then bolted in by thru rods
- All whalers, fascia, or any other member which is subject to foot traffic, will be flush with the concrete walking surface. US Patent #6,205,945

## **THRU-ROD CONNECTIONS**

- All thru-rods are ¾" thread diameter, hot-dipped galvanized steel (Stainless Steel rods can also be used as an additional cost)
- The rods travel through the floatation module at 12-inch intervals encased in ¾" inch PVC sleeves cast in the concrete
- Thru-rods are also placed through each module within six (6) inches of each end of the unit and within six (6) inches of each aluminum whaler splice.

## **PILE GUIDES**

- 300 series stainless steel with stainless steel pins and cotter keys
- The rollers are comprised of UHMW
- External pile guides options are 300 series stainless steel or 6061-T6 aluminum construction
- All hardware for each is a 300 series stainless steel.



# CONCRETE MIX DESIGN SUBMITTAL

MATERIAL:

CEMENT	ASTM C150 TYPE II
FINE AGGREGATE	ASTM C33
COARSE AGGREGATE	ASTM C33
ADMIXTURES EUCON AIR MIX	ASTM 260
ADMIXTURES PLASTOL 431	ASTM C494

CEMENT:

STRENGTH (ASTM C31 LAB CURED):	5000 PSI
BATCH WEIGHT PER CUBIC YARD	
• CEMENT (ASTM C150 TYPE II)	752 LBS
• SAND (ASTM C-33) SSD	13665 LBS
• 1/2" NORLITE AGGREGATE	675 (DRY) LBS
• FIBER REINFORCEMENT	1LB
• WATER	36.9 GAL
• EUCON AIR MIX - 250	.02+/- .02 OZ/CWT
• PLASTOL 341	4.0 OZ/CWT
• AIR CONTENT	6.5%
• SLUMP	5+/-1"
• EQUILIBRIUM AIR DRY UNIT WEIGHT	113+/-4PCF
COMPRESSION STRENGTH 28 DAYS	6450

REINFORCING STEEL:

WELDED WIRE MESH: CONFORMS TO ASTM A496 GRADE 60

- HOT DIPPED GALVANIZED
- 3" CLEAR COVER
- 10" OVERLAP

WHALER SYTEM: 6061-T6 MARINE GRADE ALUMINUM

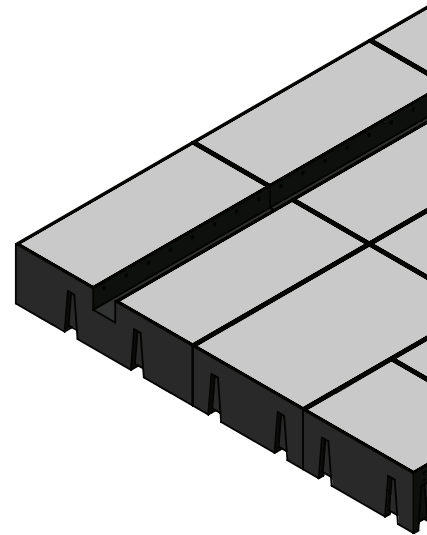
PILE GUIDE: 316 SERIES STAINLESS STEEL STRUCTURE AND HDW  
W/ HPDM ROLLERS

RUB RAIL: 4" X 6" PT LUMBER/STAINLESS STEEL HDW\

PSF 100PSF	20" NOMINAL DL
FREEBOARD 20" NOMINAL DD	18" NOMINAL LL
FREEBOARD 18" NOMINAL LL	6000 LBS IMPACT
BERTHING LOAD 6000 LBS IMPACT	4000 LBS LATERAL LOAD
MOORING LOAD 4000 LBS LATERAL LOAD	500 LBS OVER 100 SQFT AREA
CONCENTRATED LOAD 500LBS OVER 10' X 10' AREA	2000LBS PER LF OVER 20
WIND/WAVE LOAD 2000 LBS PER LF OVER 20	

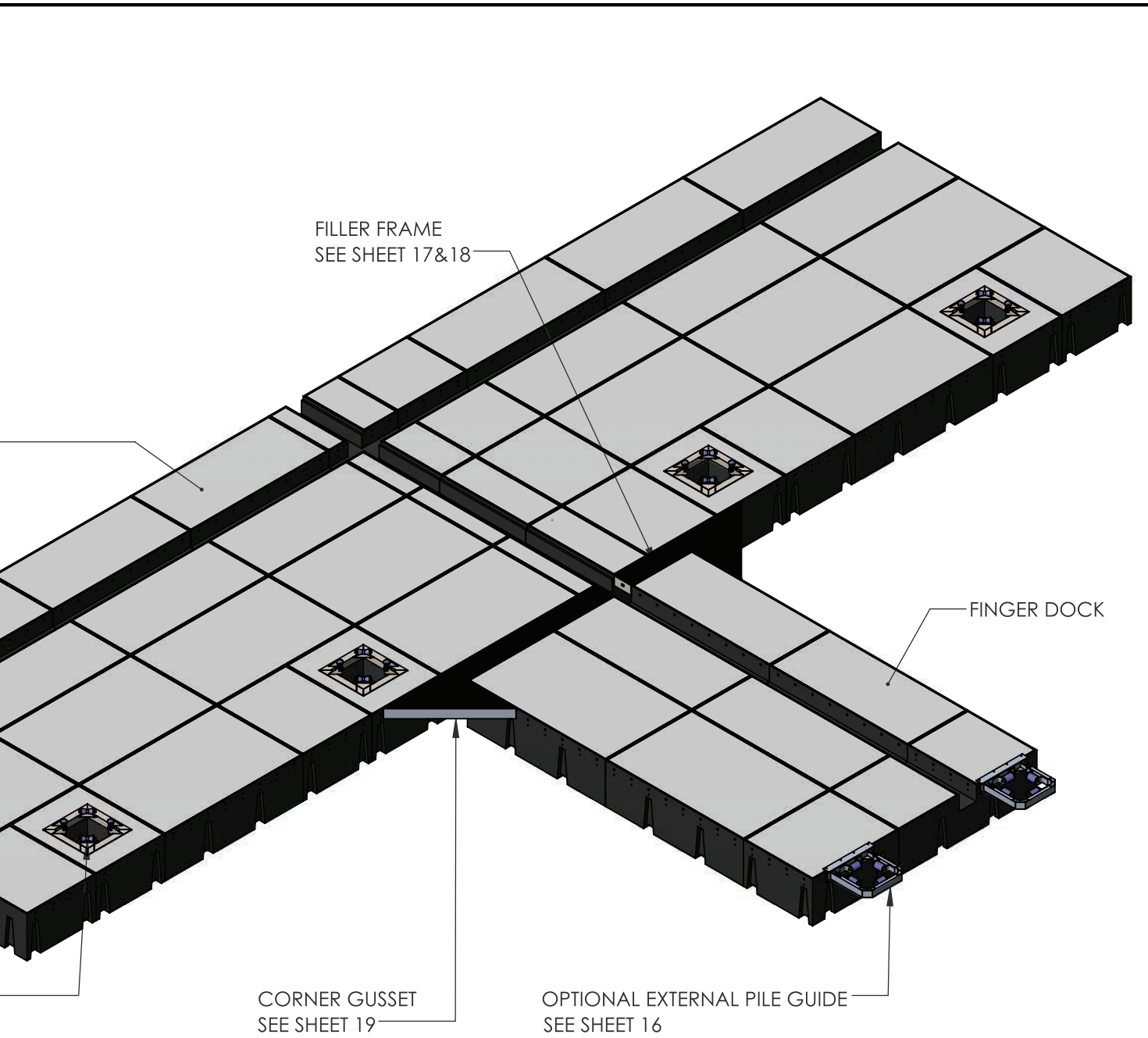
POINT LOAD NOT TO EXCEED 6" WITH 1500 LBS VERTICAL LL APPLIED TO EDGE

MAIN DOCK  
SHOWN FILLED



INTERNAL PILE GUIDE  
SEE SHEET 15






DO NOT SCALE DRAWING

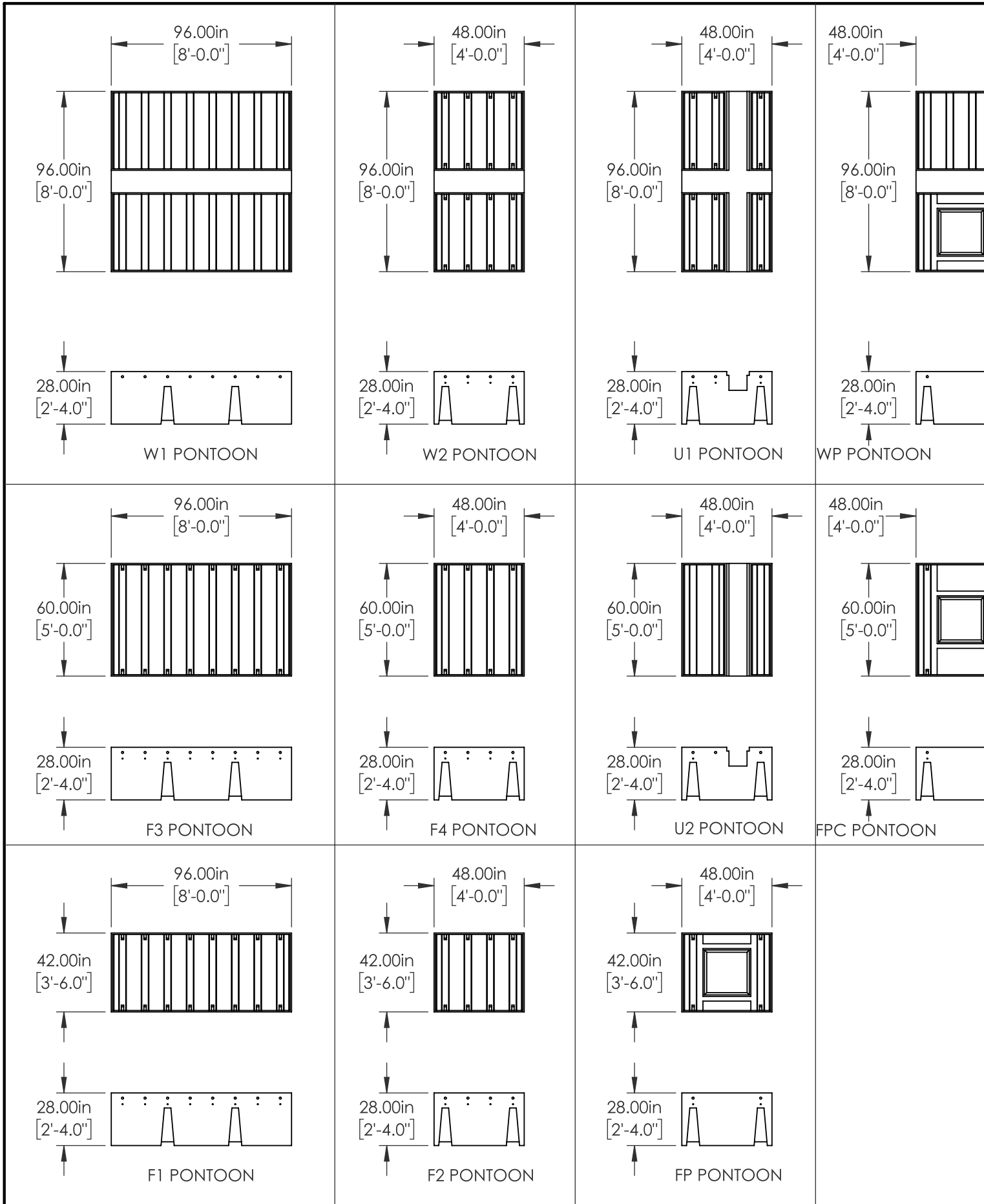


THIRD ANGLE PROJECTION

PROPRIETARY AND CONFIDENTIAL

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		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		GBL NO	
CONCRETE DOCK			
CUSTOMER			
GMS			
MATERIAL		FINISH	
SEE BOM		NONE	
PART NUMBER		REV	DATE
LAYOUT		A	9/26/19
		SHEET	
			1 OF 19



PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)

# FLOAT SPECIFICATIONS

## FLOAT ENCASEMENT:

DENSITY (ASTM D-1505)	0.937 G/CC
MELT INDEX (190DEG/2.16 KG, ASTM D-1238)	125 G/10 MIN
ESCR (100/LGEPAL, F-50, ASTM D-1693 B)	1000 HRS
TENSILE STRENGTH AT YIELD, 2"/MIN (ASTM-638)	2750 PSI
ELONGATION AT BREAK (ASTM D-638)	600%
FLEXURAL MODULUS (1% SECANT, ASTM D-790)	109000 PSI
LOW TEMPERATURE IMPACT (ARM STD -40DEG F.)	68 FT.LBS
BRITTLINESS TEMPERATURE (ASTM D-746)	-90 C
HEAT DISTORTION TEMPERATURE (ASTM D-648)	63 C

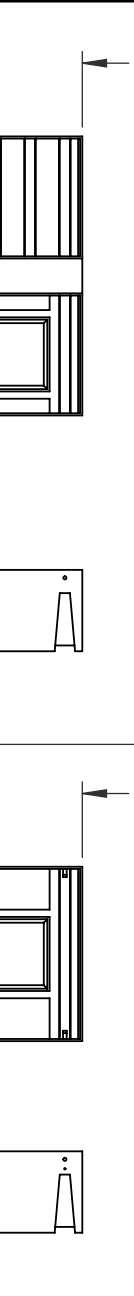
ALL UNITS ARE ROTATIONALLY MOLDED FOR SEAMLESS, ONE-PIECE CONSTRUCTION AND A NOMINAL WALL THICKNESS OF 0.200 INCHES. UNITS ARE MADE USING LINEAR LOW DENSITY VIRGIN POLYETHELENE RESIN CONTAINING UV RAY INHIBITORS AND CARBON BLACK PIGMENT TO PROTECT AGAINST UV DETERIORATION IN COMPLIANCE WITH FDA TITLE 21.

UNITS ARE SUITABLE FOR OUTDOOR USE WITH RESPECT TO EXPOSURE TO UV LIGHT, WATER EXPOSURE, IMMERSION AND FIRE IN ACCORDANCE WITH THE UNDERWRITERS LABORATORY'S CLASS 746C AND FLAME CLASS UL-94HB. THEY ALSO MEET ASTM D1988-04 FALLING DART IMPACT TEST.

## EPS FOAM:

DENSITY (ASTM C-303)	0.90 MIN LB/FT. 3
THERMAL RESISTANCE (ASTM C-177 OR C-518)	
@ 25 DEG F.	4.20 MIN R FOR 1 INCH
@ 40 DEG F.	4.00 MIN R FOR 1 INCH
@ 75 DEG F.	3.60 MIN R FOR 1 INCH
@ 110 DEG F.	3.25 MIN R FOR 1 INCH
COMPRESSION RESISTANCE AT YIELD OR 10% DEFORMATION (ASTM D-1621)	10.0 PSI MIN
FLEXURAL STRENGTH (ASTM C-203)	25.0 PSI MIN
WATER VAPOR PERMEABILITY (ASTM E-96)	5.0 MAX PERM-IN
WATER ABSORPTION (ASTM C-272)	4.0% BY VOL MAX
DIMENSIONAL STABILITY	2.0% MAX
OXYGEN INDEX (ASTM D-2863)	24.0% MIN
COEFFICIENT OF THERMAL EXPANSION (ASTM D-696)	0.000035 IN/IN/DEG F.
FLASH IGNITION TEMPERATURE (ASTM D-1929)	824 DEG F
AUTO-IGNITION TEMPERATURE (ASTM D-1929)	896 DEG F
BTU CONTENT (ASTM NFPA 259)	17425 BTU/LB

ALL UNITS ARE FILLED WITH POLYSTYRENE (EPS) BEADS STEAMED TOGETHER TO LIMIT WATER ABSORPTION AND PROVIDE A SOLID CORE FOR STRUCTURAL INTEGRITY. EPS CONTENTS HAVE A 0.9-1.2LBS/CU.FT DENSITY WITH A WATER ABSORPTION NOT TO EXCEED 3LBS/CU.FT IN ACCORDANCE WITH THE HUNT 7 DAY WATER ABSORPTION TEST. EPS CONTENTS CONFORM TO ASTM C-578 UL STANDARDS. ALSO PASSES UL 1975 AND ASTM E84 TESTS IN REGARDS TO FIRE RESISTANCE.



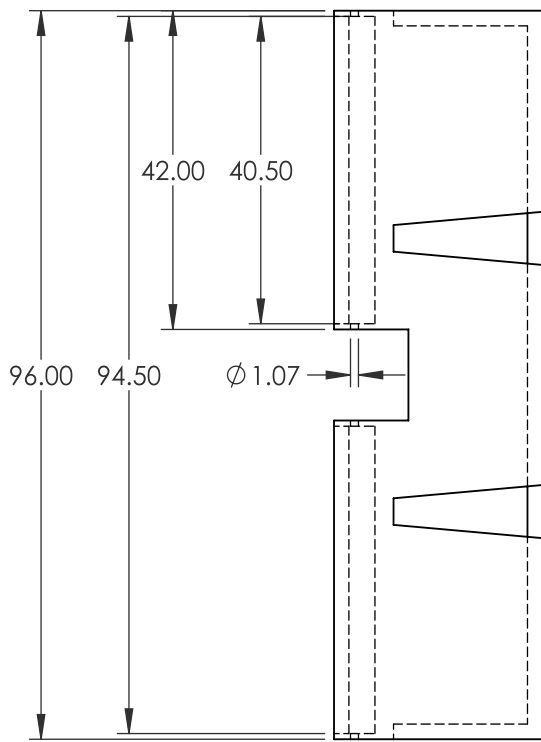
<b>GOLDEN</b> <i>Marine Systems LLC</i>		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
DESCRIPTION <b>COMPREHENSIVE OVERVIEW</b>			
PROJECT <b>CONCRETE DOCK</b>		GBL NO	
CUSTOMER <b>GMS</b>			
MATERIAL <b>DEN HARTOG</b>		FINISH <b>NONE</b>	
PART NUMBER <b>F1 PONTOON</b>		REV/DATE <b>A 9/26/19</b>	SHEET <b>2 OF 19</b>

DO NOT SCALE DRAWING

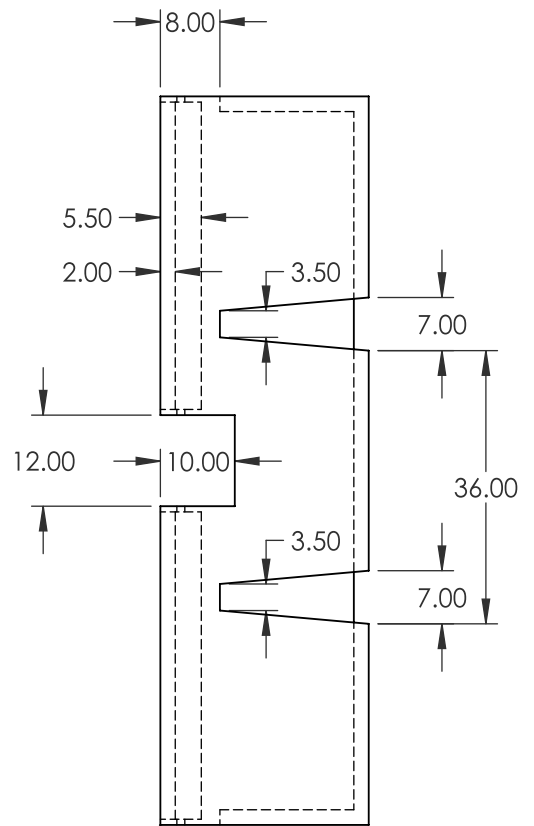
THIRD ANGLE PROJECTION

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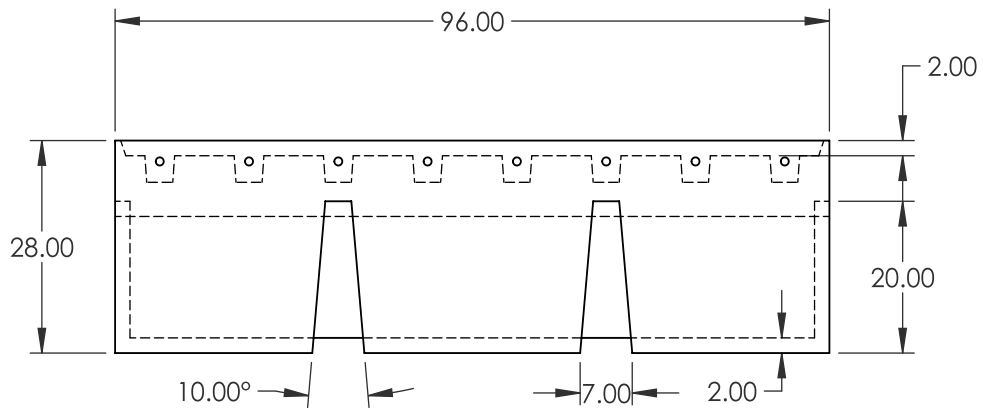


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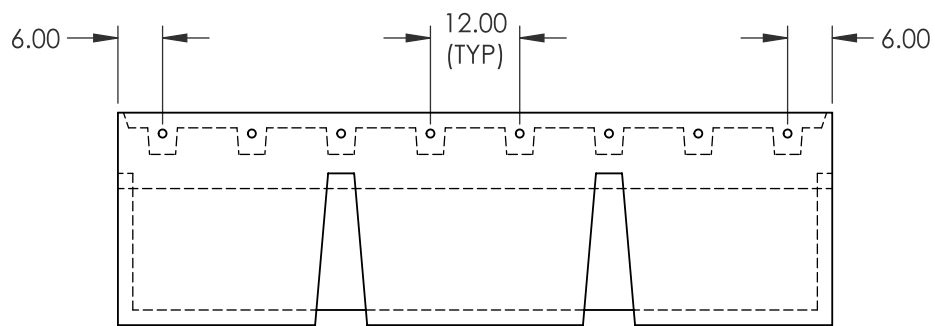


SIDE VIEW 'B'

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R.25 TYPICAL ON REMAINDER OF PART

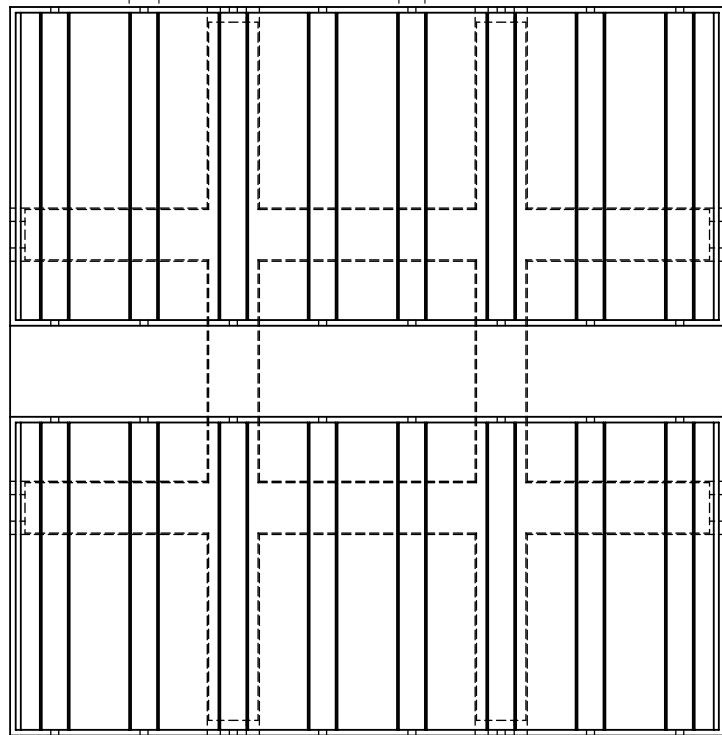


FRONT VIEW 'A'

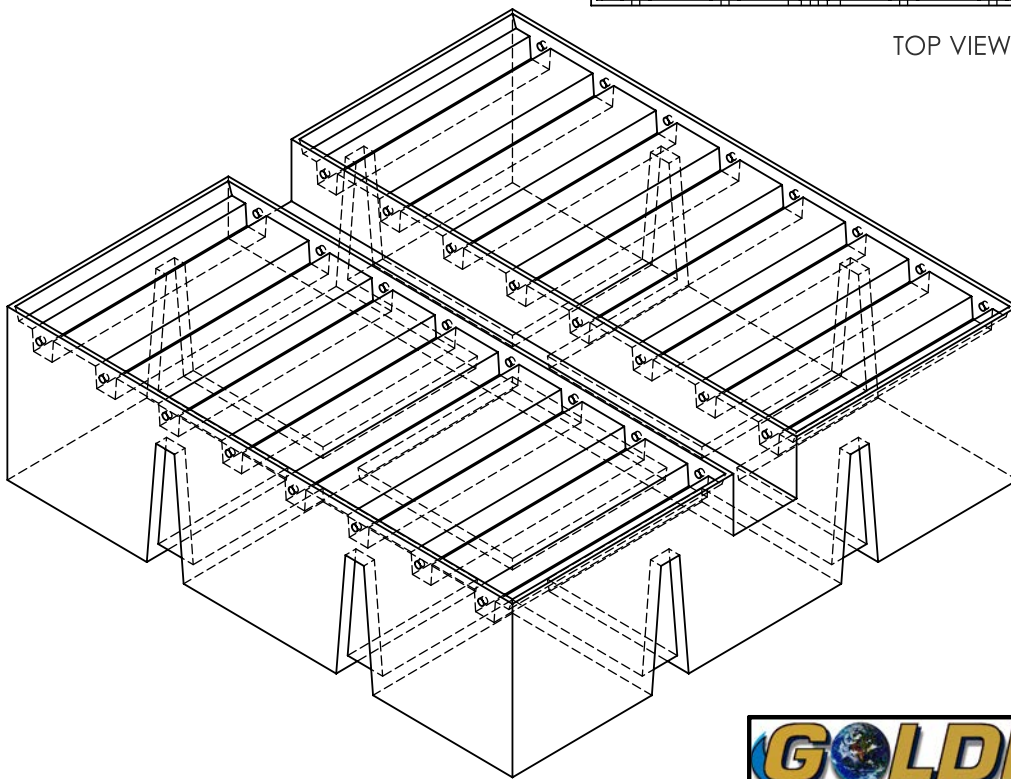


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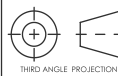
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TOP VIEW



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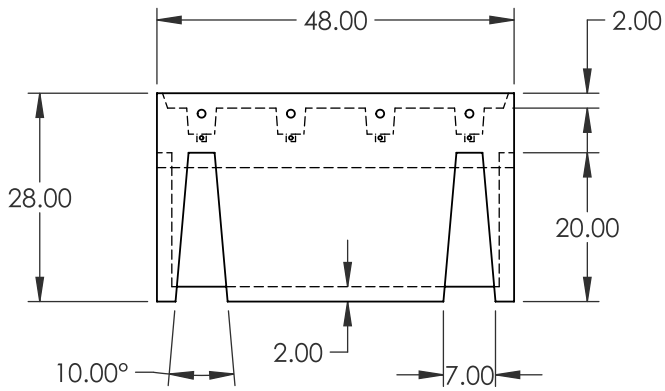
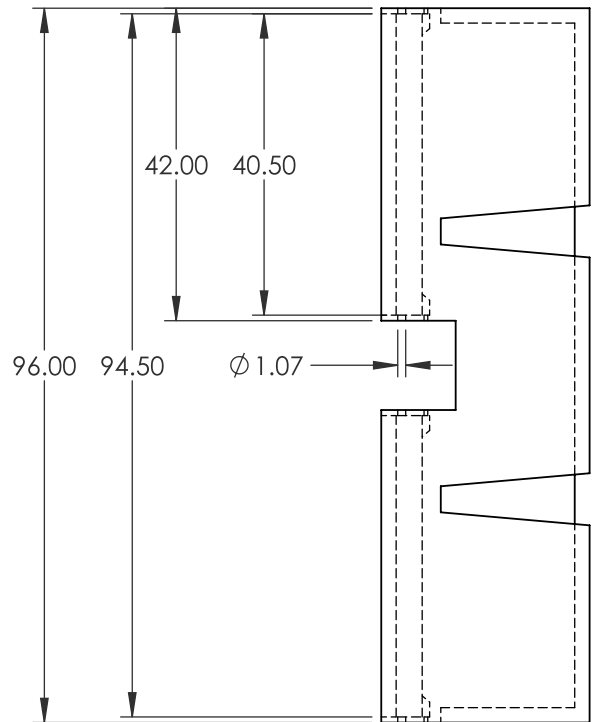
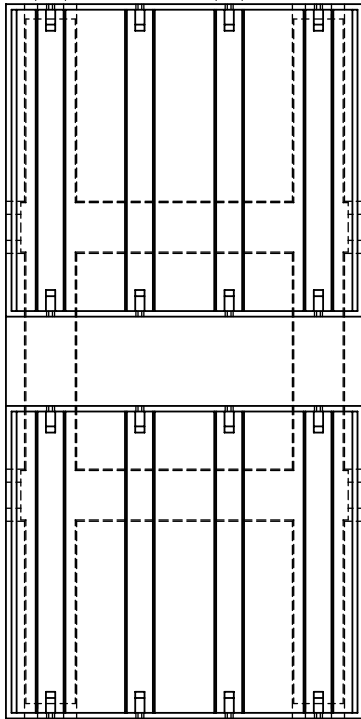
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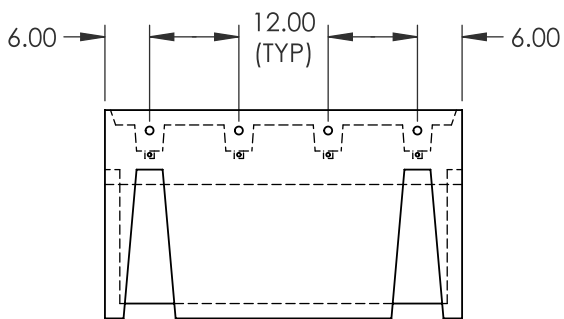
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DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		GBL NO	
CONCRETE DOCK			
CUSTOMER			
GMS			
MATERIAL			FINISH
DEN HARTOG			NONE
PART NUMBER		REV DATE	SHEET
W1 PONTOON		A 9/26/19	3 OF 19

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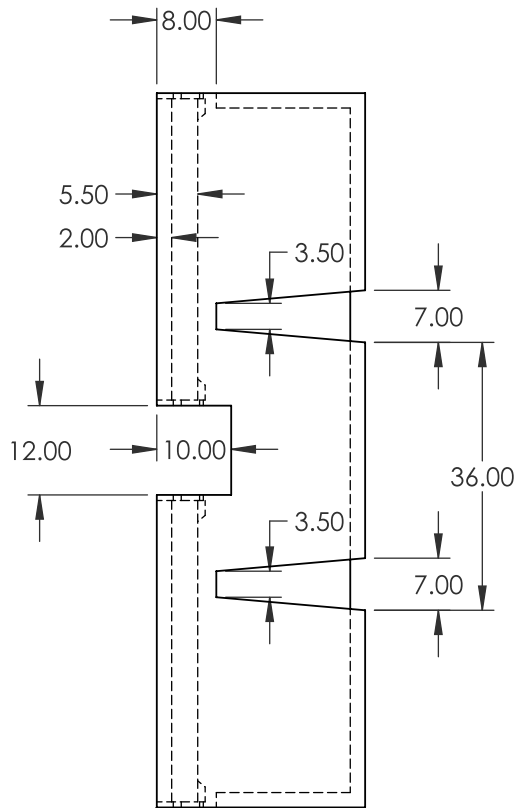


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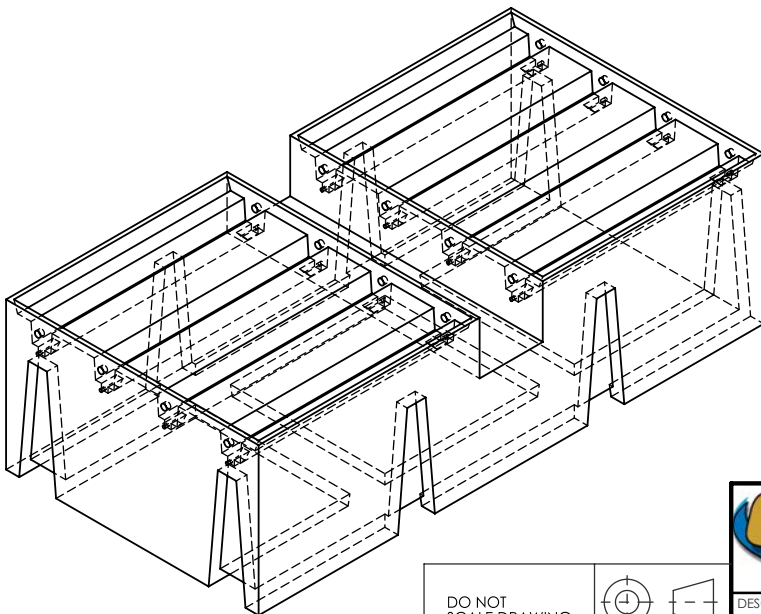


FRONT VIEW 'B'

PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)



R.125 AROUND TOP PERIMETER  
 R.25 TYPICAL ON REMAINDER OF PART



DO NOT SCALE DRAWING

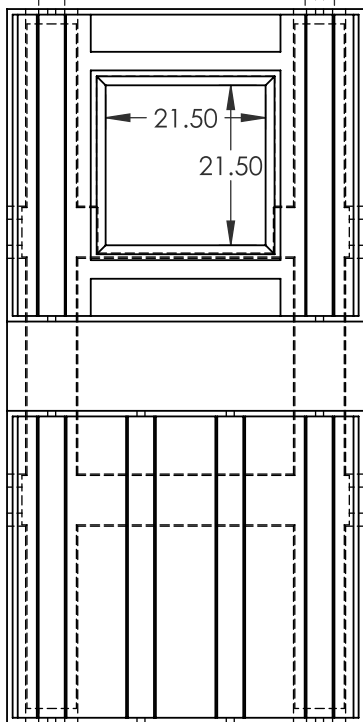
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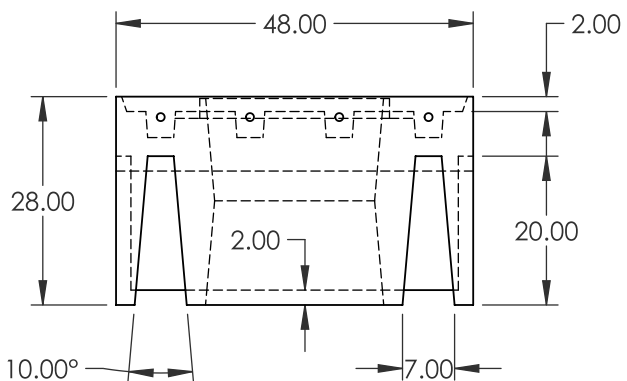
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DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		G8L NO	
CONCRETE DOCK			
CUSTOMER			
GMS			
MATERIAL	WEIGHT	FINISH	
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PART NUMBER	REV	DATE	SHEET
W2 PONTOON	A	9/26/19	4 OF 19

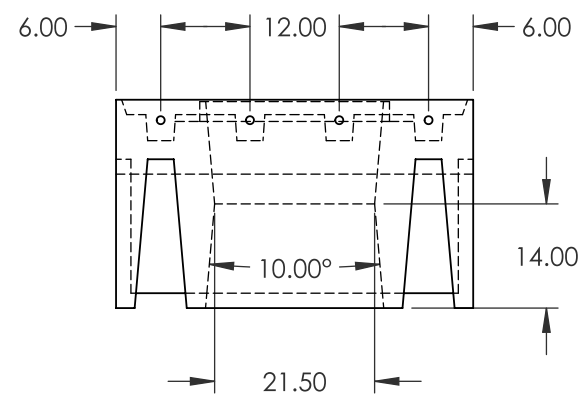
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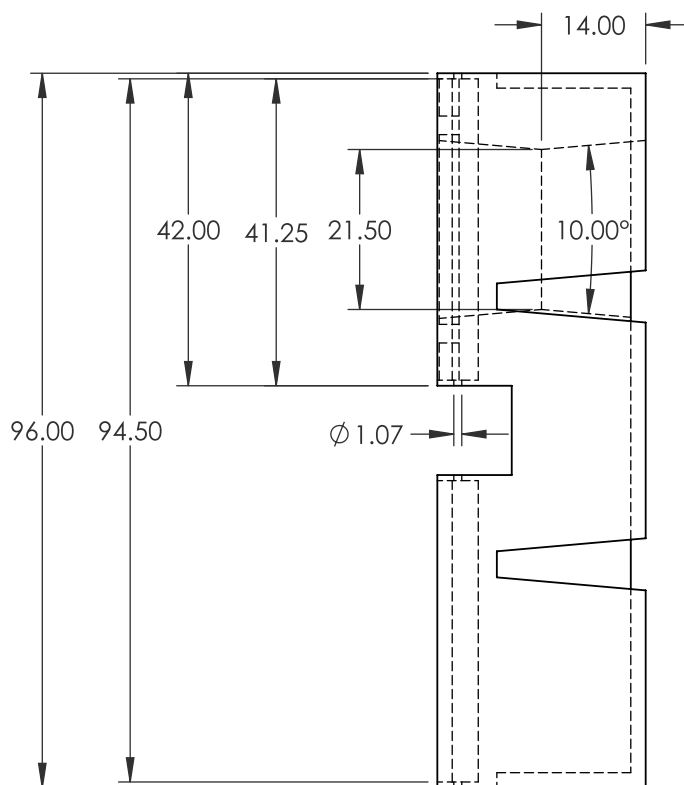
TOP VIEW



FRONT VIEW 'A'



FRONT VIEW 'B'

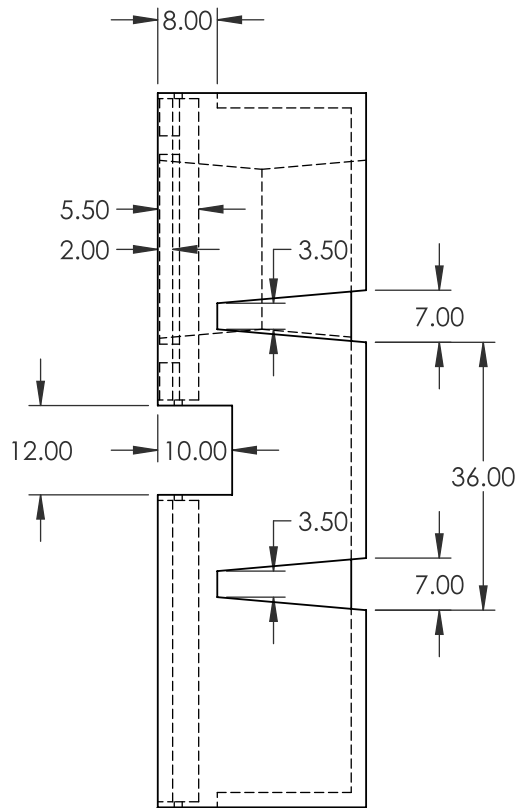


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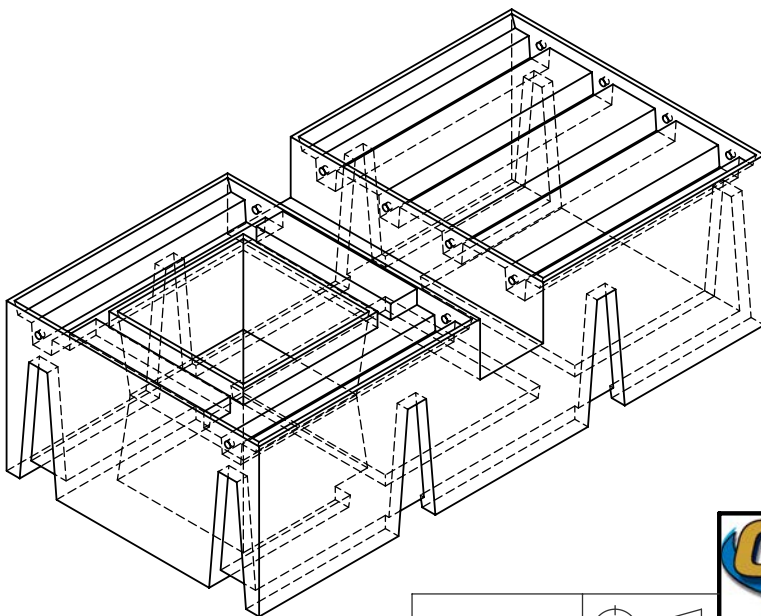
PATENT# 6,250,945

ALUMINUM WHALER (PATENT PENDING)





R.125 AROUND TOP PERIMETER  
 R.25 TYPICAL ON REMAINDER OF PART



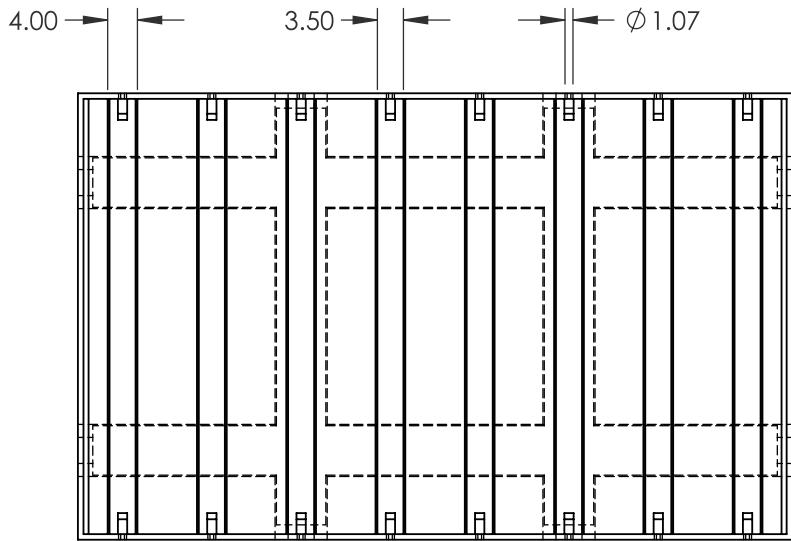
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THIRD ANGLE PROJECTION

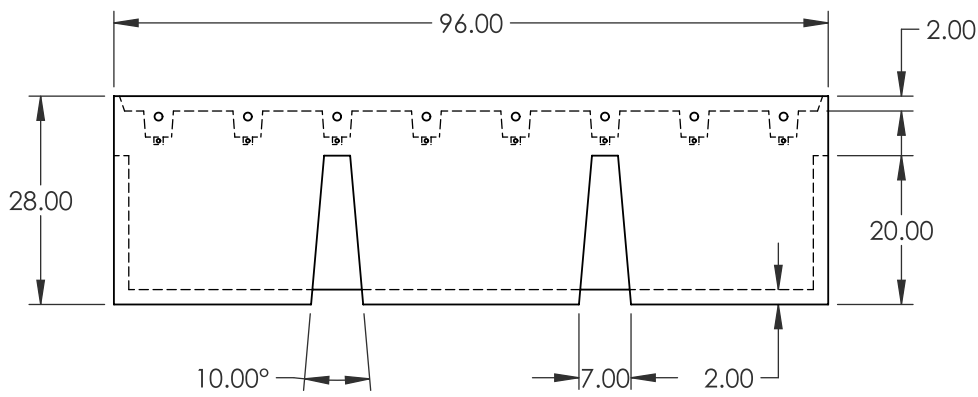
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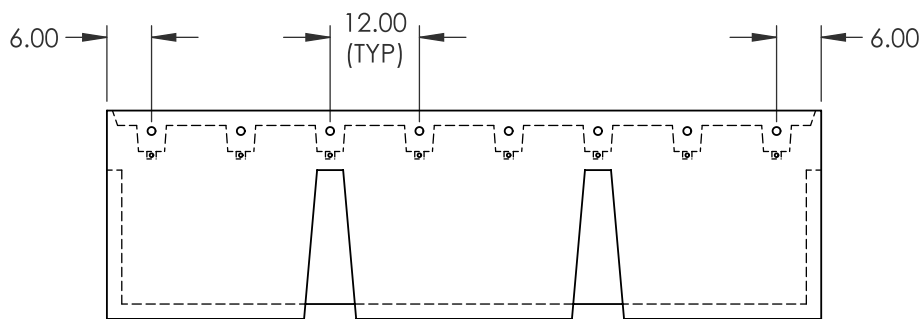
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DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		G8L NO	
CONCRETE DOCK			
CUSTOMER			
GMS			
MATERIAL	WEIGHT	FINISH	
DEN HARTOG	5377.94 LBS	NONE	
PART NUMBER	REV	DATE	SHEET
WP PONTOON	A	9/26/19	6 OF 19



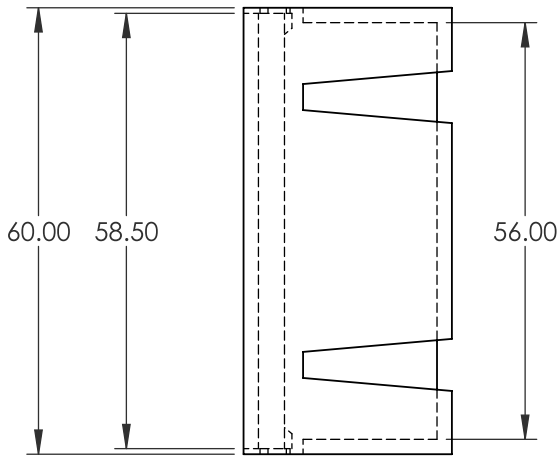
TOP VIEW



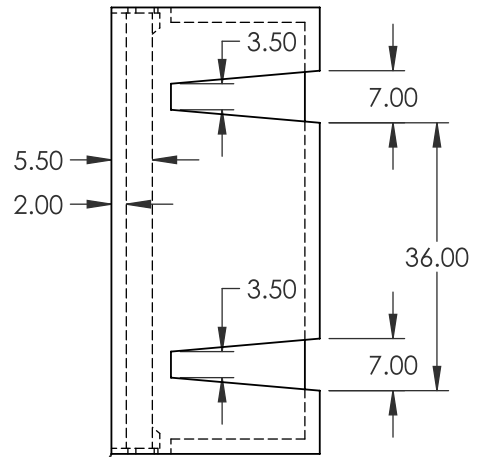
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FRONT VIEW 'B'

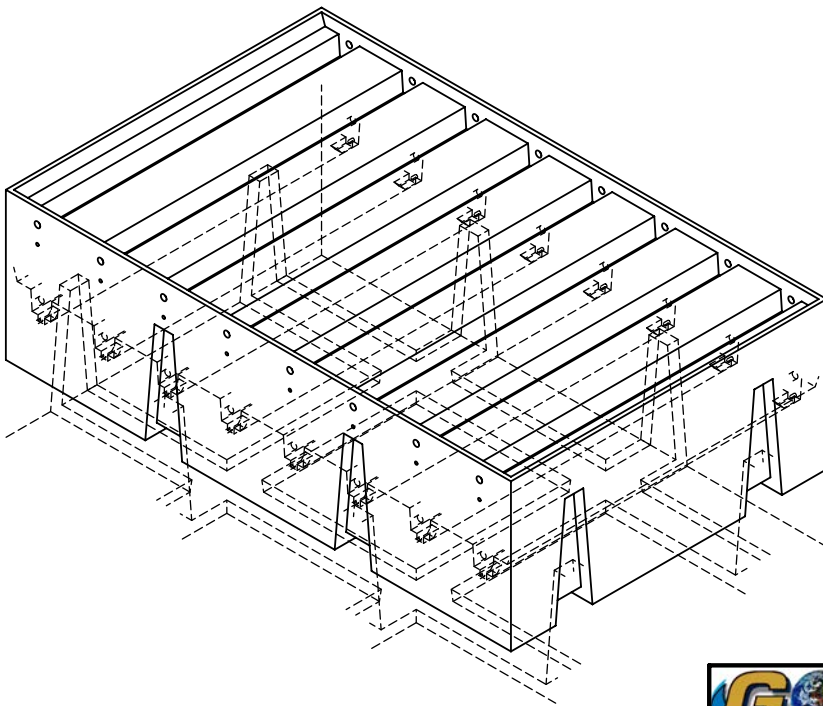


SIDE VIEW 'A'



SIDE VIEW 'B'

R.125 AROUND TOP PERIMETER  
R.25 TYPICAL ON REMAINDER OF PART



DO NOT SCALE DRAWING

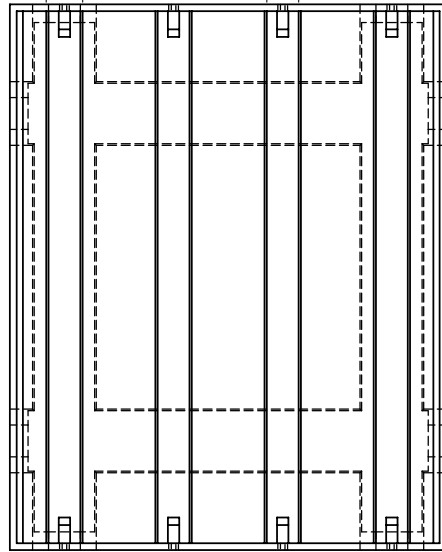
THIRD ANGLE PROJECTION

PROPRIETARY AND CONFIDENTIAL

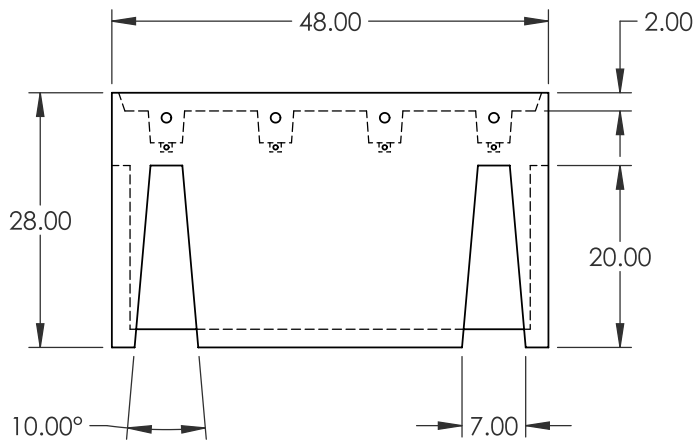
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DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		GBL NO	
CONCRETE DOCK			
CUSTOMER			
GMS			
MATERIAL	WEIGHT	FINISH	
DEN HARTOG	8843.71 LBS	NONE	
PART NUMBER	REV	DATE	SHEET
F3 PONTOON	A	9/26/19	7 OF 19

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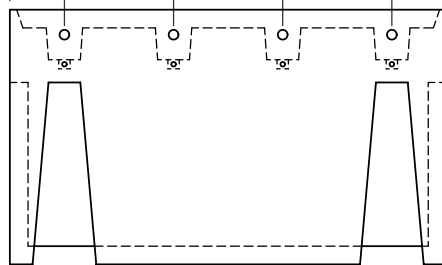


TOP VIEW



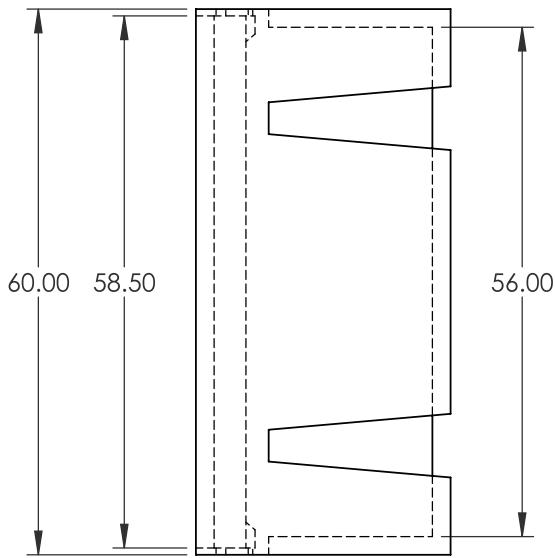
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6.00      12.00 (TYP)      6.00

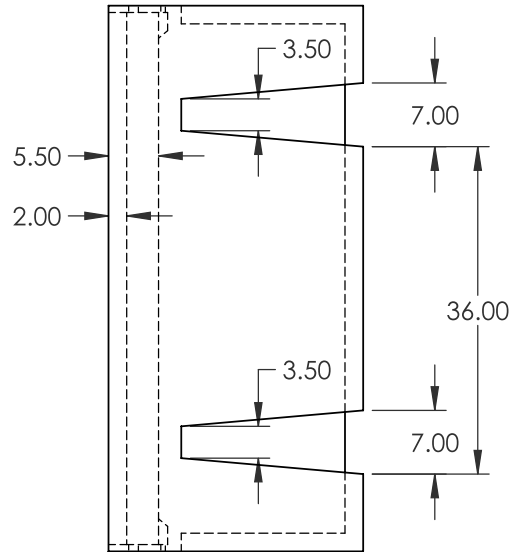


FRONT VIEW 'B'

PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)

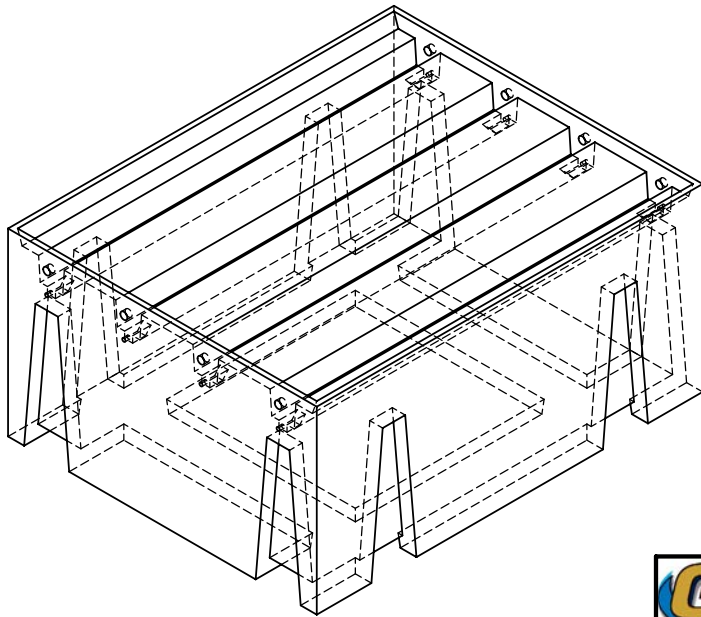


SIDE VIEW 'A'



SIDE VIEW 'B'

R.125 AROUND TOP PERIMETER  
R.25 TYPICAL ON REMAINDER OF PART



		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
		DESCRIPTION <b>COMPREHENSIVE OVERVIEW</b>	
PROJECT <b>CONCRETE DOCK</b>		GBL NO	
CUSTOMER <b>GMS</b>			
MATERIAL <b>DEN HARTOG</b>		WEIGHT <b>3864.91 LBS</b>	FINISH <b>NONE</b>
PART NUMBER <b>F4 PONTOON</b>		REV DATE <b>A 9/26/19</b>	SHEET <b>8 OF 19</b>

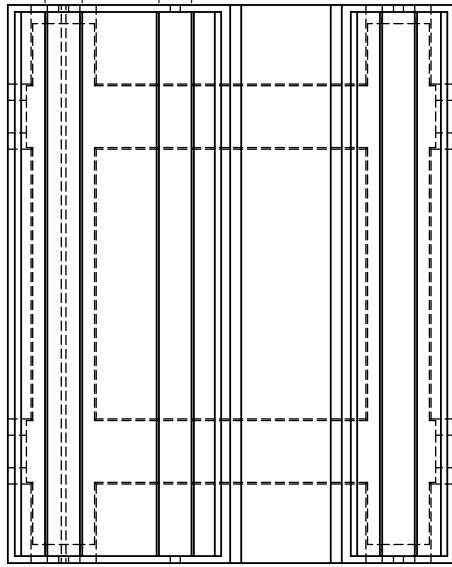
DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

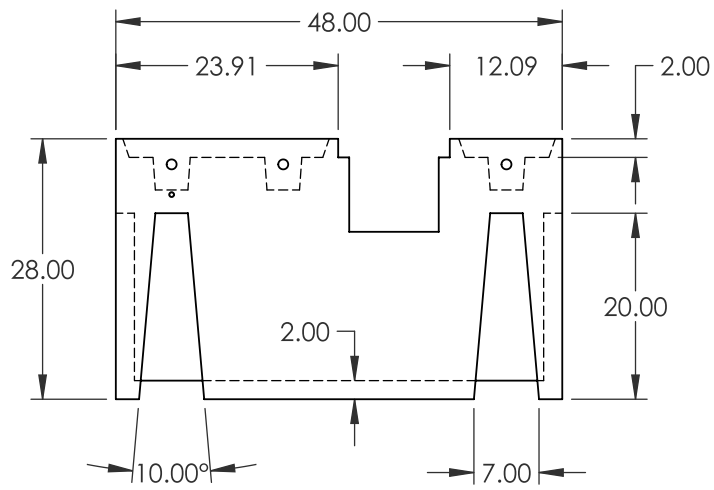
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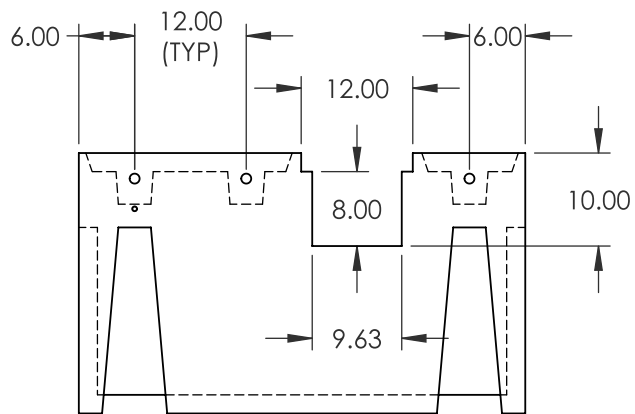
4.00      3.50       $\phi 1.07$



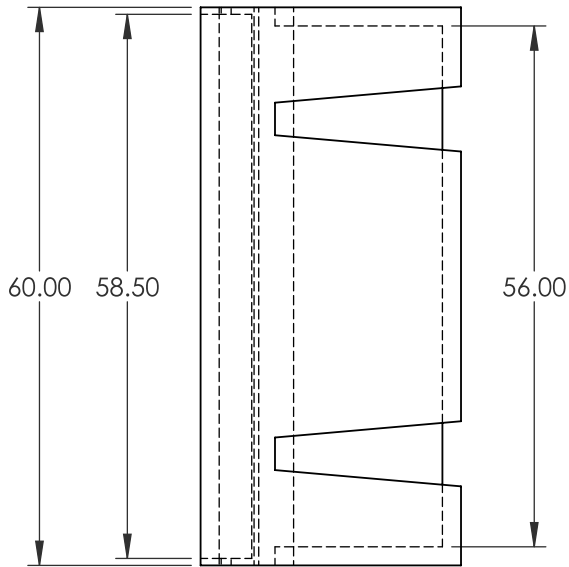
TOP VIEW



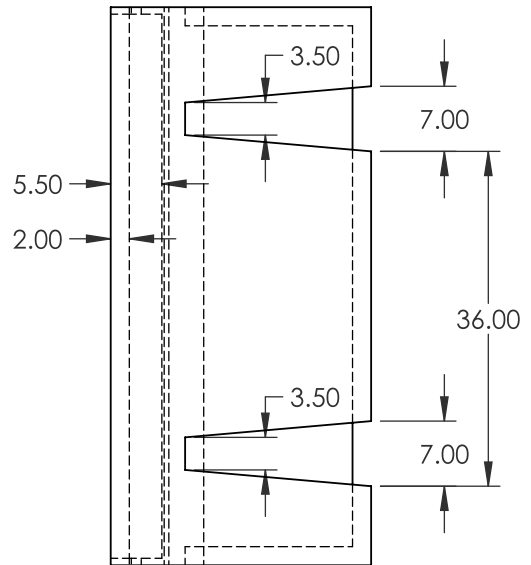
FRONT VIEW 'A'



FRONT VIEW 'B'

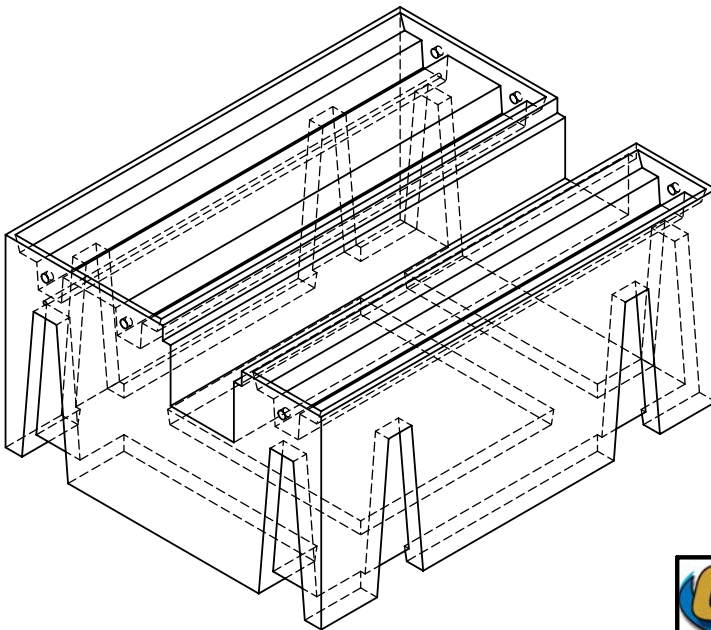


SIDE VIEW 'A'



SIDE VIEW 'B'

R.125 AROUND TOP PERIMETER  
R.25 TYPICAL ON REMAINDER OF PART



DO NOT SCALE DRAWING

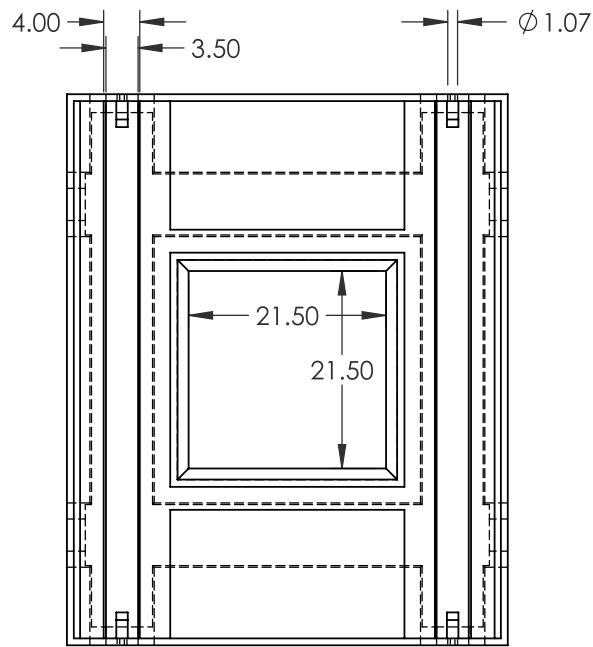
THIRD ANGLE PROJECTION

PROPRIETARY AND CONFIDENTIAL

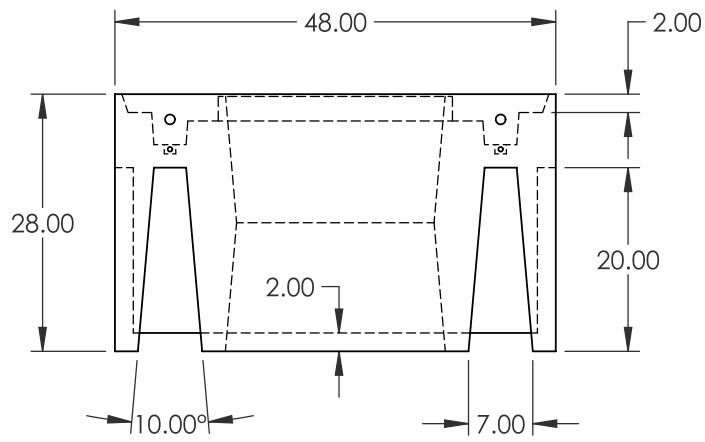
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17611 EAST STREET  
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239-337-4141  
MSHANLEY@GOLDENMARINESYSTEMS.COM

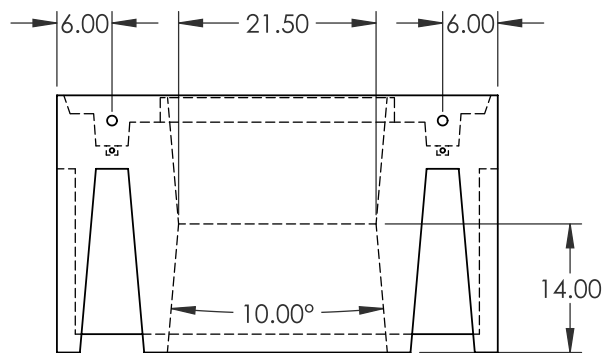
DESCRIPTION			COMPREHENSIVE OVERVIEW		
PROJECT		CONCRETE DOCK		G8L NO	
CUSTOMER		GMS			
MATERIAL	DEN HARTOG	WEIGHT	4000.27 LBS	FINISH	NONE
PART NUMBER	U2 PONTOON	REV	A	DATE	9/26/19
			SHEET	9 OF 19	



TOP VIEW



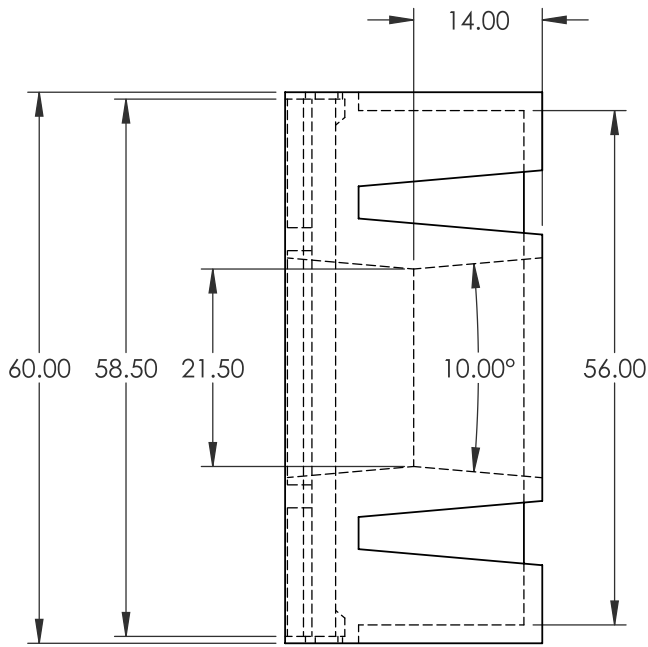
FRONT VIEW 'A'



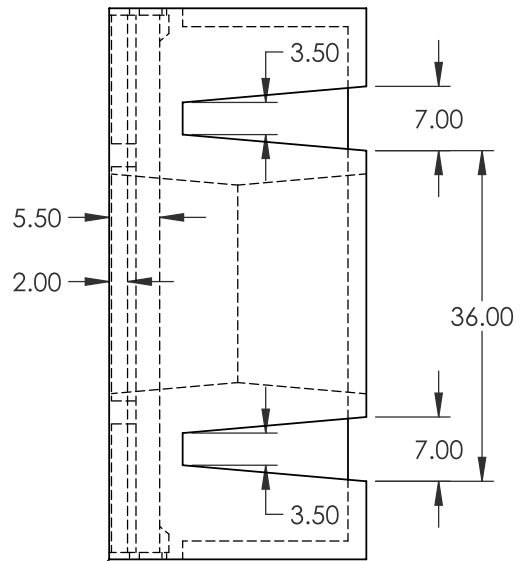
FRONT VIEW 'B'

PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)



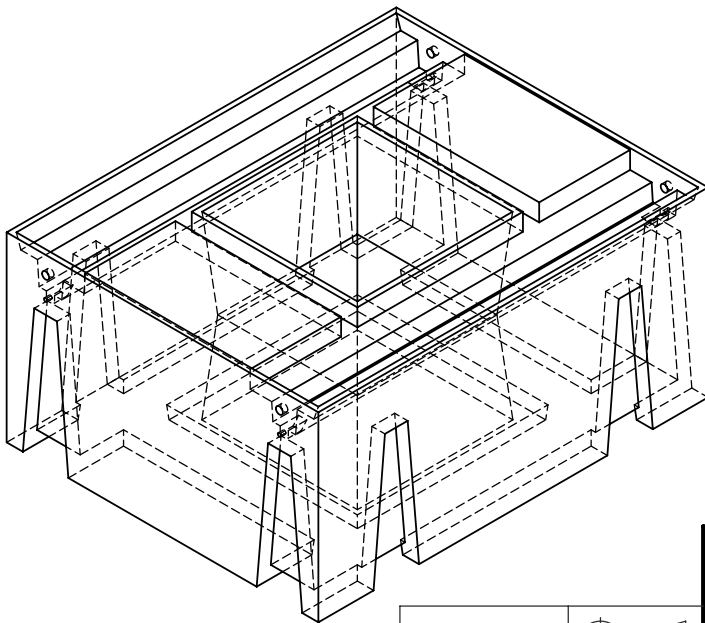


SIDE VIEW 'A'

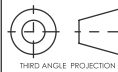


SIDE VIEW 'B'

R.125 AROUND TOP PERIMETER  
R.25 TYPICAL ON REMAINDER OF PART



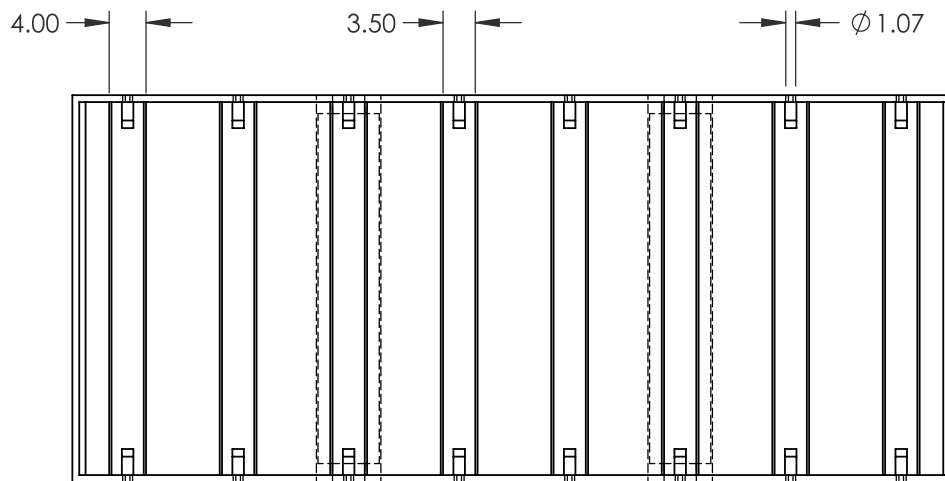
DO NOT SCALE DRAWING



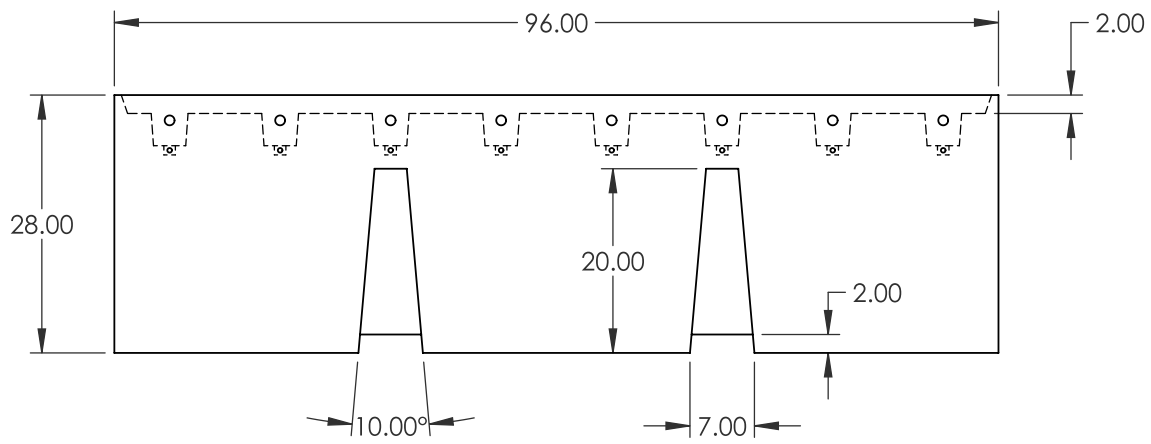
PROPRIETARY AND CONFIDENTIAL

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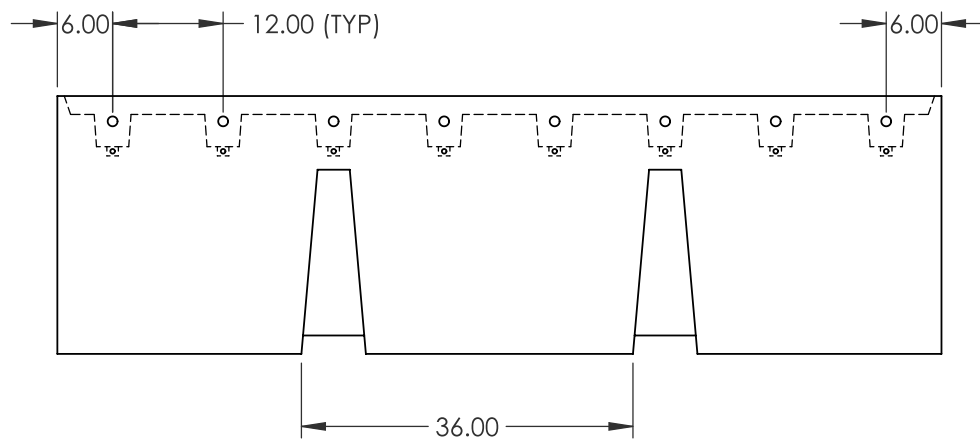
		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
		DESCRIPTION	
		COMPREHENSIVE OVERVIEW	
PROJECT		CONCRETE DOCK	
CUSTOMER		GMS	
MATERIAL		WEIGHT	FINISH
DEN HARTOG		3522.65 LBS	NONE
PART NUMBER		REV	DATE
FPC PONTOON		A	9/26/19
		SHEET	
		10 OF 19	



TOP VIEW

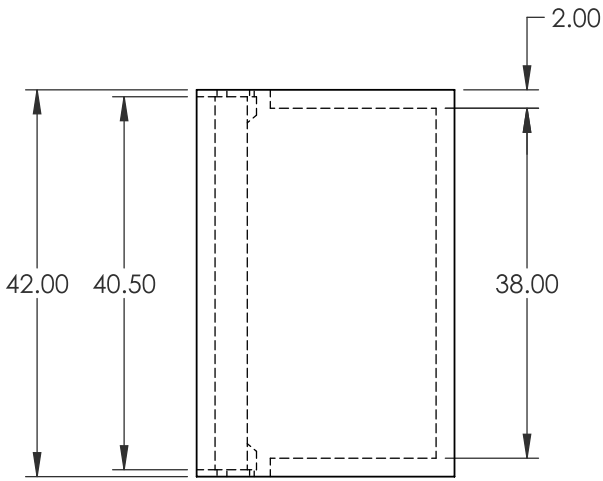


FRONT VIEW 'A'

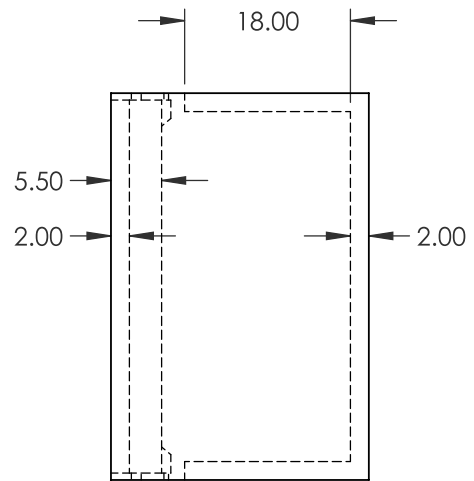


FRONT VIEW 'B'

PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)

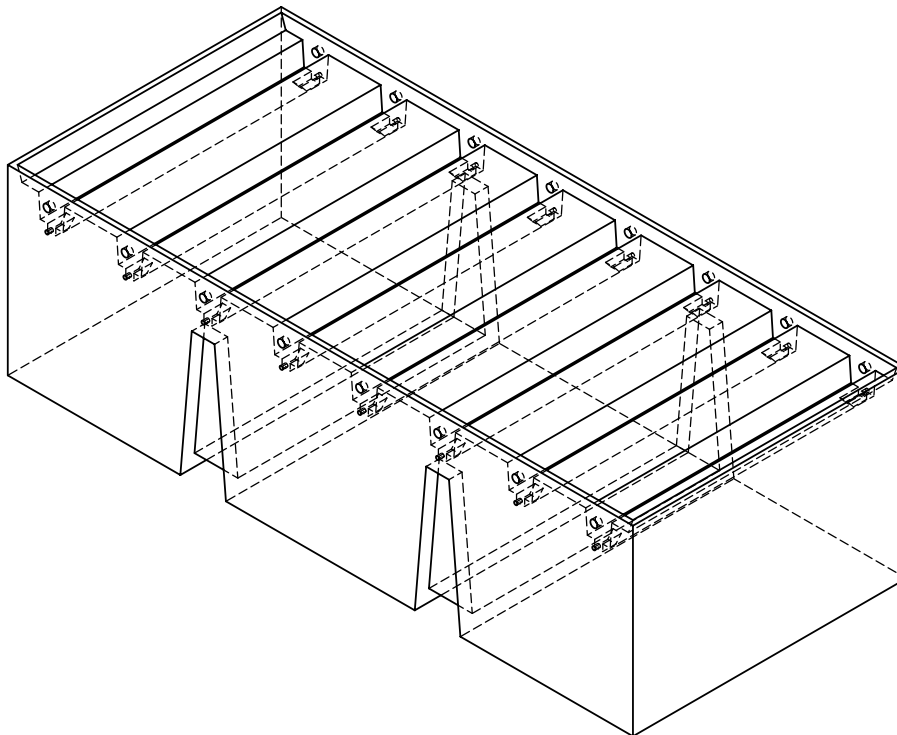



SIDE VIEW 'A'



SIDE VIEW 'B'

R.125 AROUND TOP PERIMETER  
R.25 TYPICAL ON REMAINDER OF PART



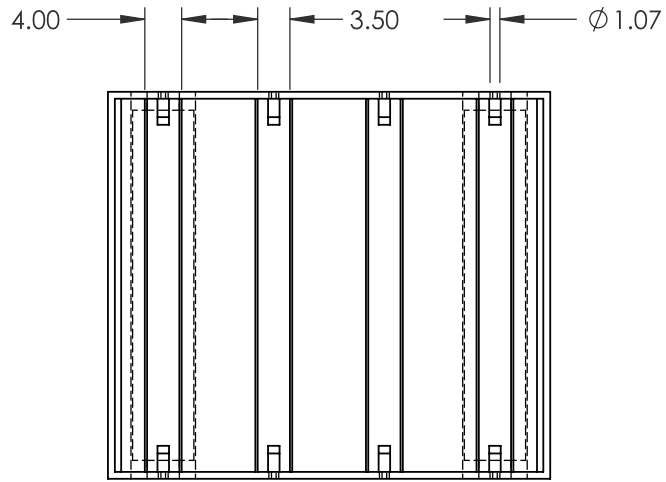
		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
		DESCRIPTION <b>COMPREHENSIVE OVERVIEW</b>	
PROJECT <b>CONCRETE DOCK</b>		GBL NO	
CUSTOMER <b>GMS</b>			
MATERIAL <b>DEN HARTOG</b>	WEIGHT <b>5621.25 LBS</b>	FINISH <b>NONE</b>	
PART NUMBER <b>F1 PONTOON</b>	REV DATE <b>A 9/26/19</b>	SHEET <b>11 OF 19</b>	

DO NOT SCALE DRAWING

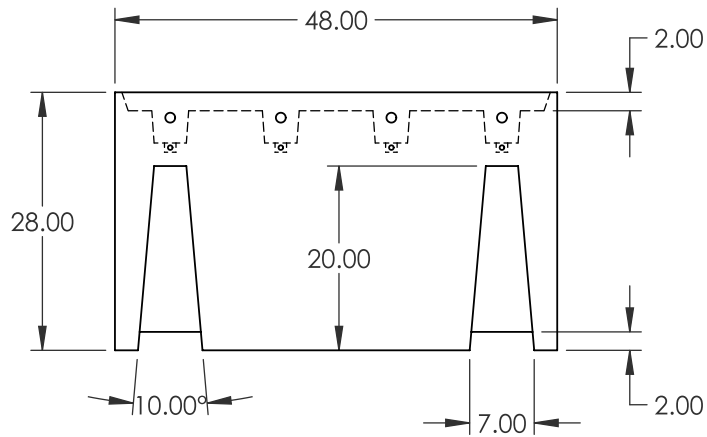
THIRD ANGLE PROJECTION

PROPRIETARY AND CONFIDENTIAL

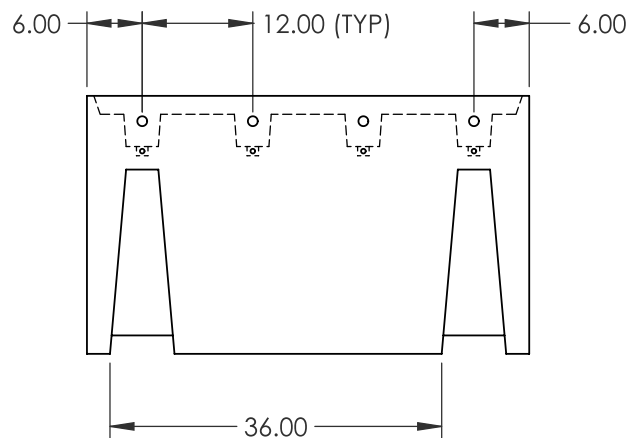
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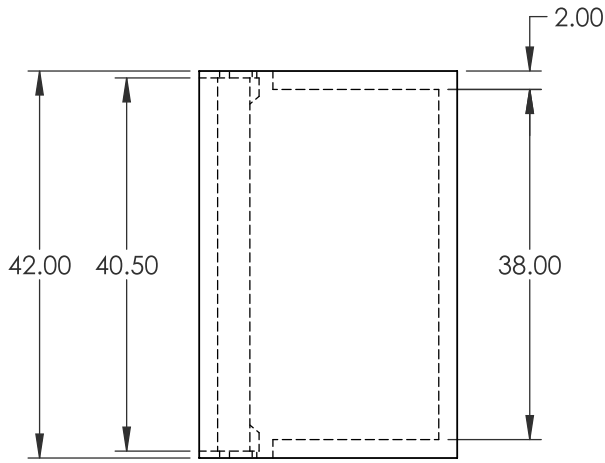
TOP VIEW



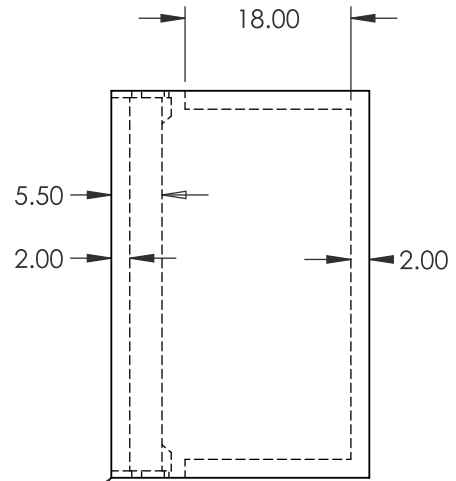
FRONT VIEW 'A'



FRONT VIEW 'B'

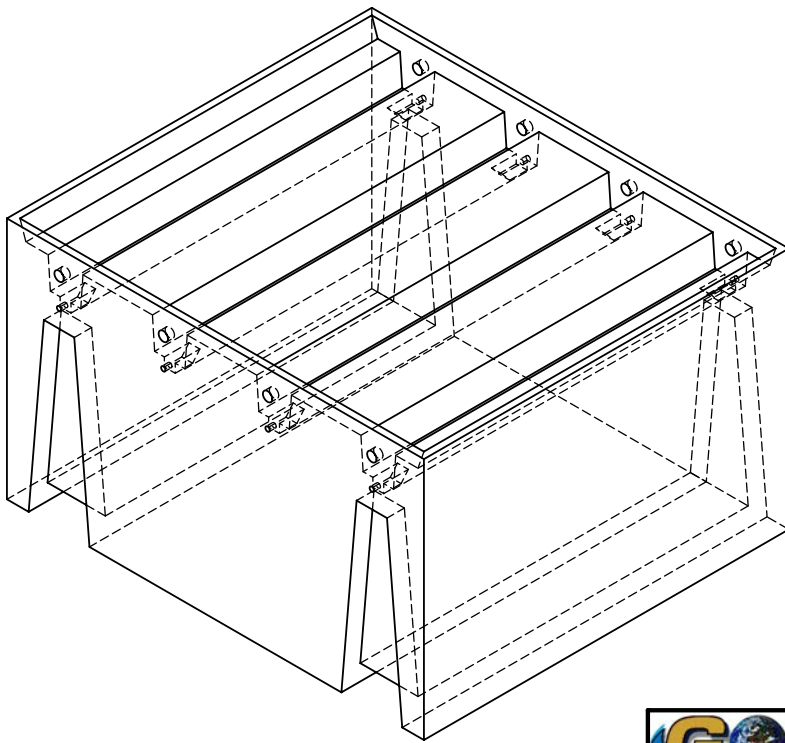


SIDE VIEW 'A'



SIDE VIEW 'B'

R.125 AROUND TOP PERIMETER  
R.25 TYPICAL ON REMAINDER OF PART



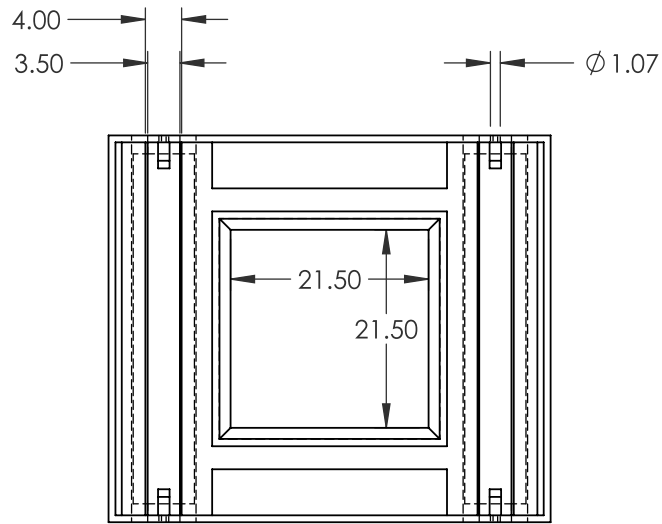
DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

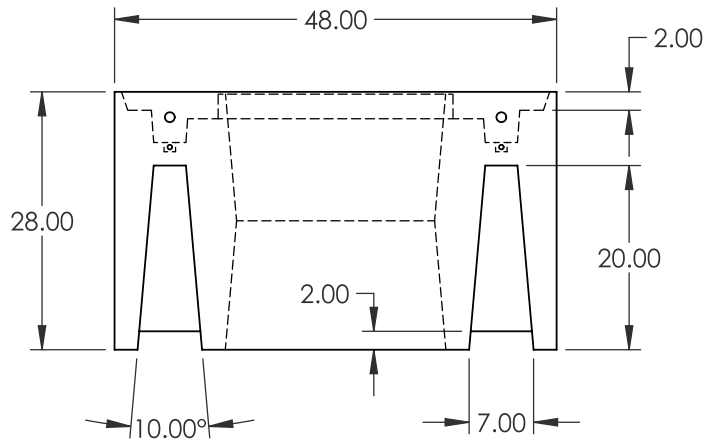
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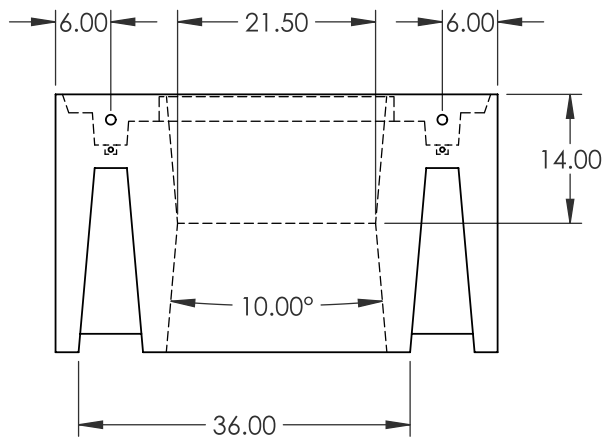
		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		GBL NO	
CONCRETE DOCK			
CUSTOMER			
GMS			
MATERIAL		WEIGHT	FINISH
DEN HARTOG		2762.40 LBS	NONE
PART NUMBER		REV DATE	SHEET
F2 PONTOON		A 9/26/19	12 OF 19



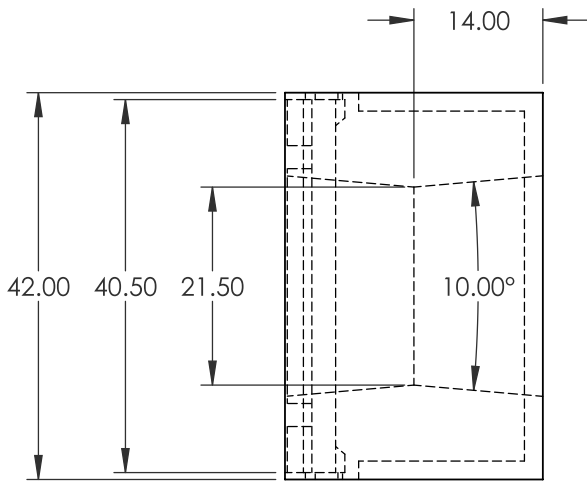
TOP VIEW



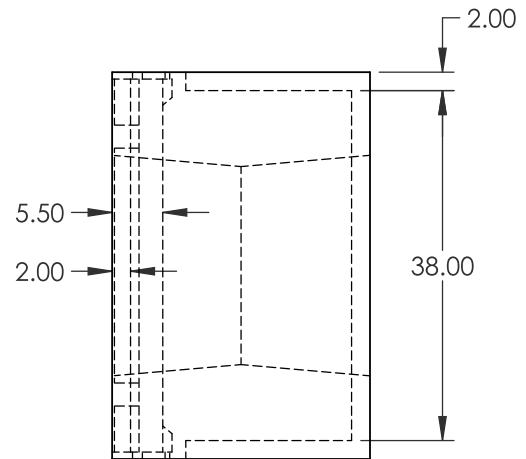
FRONT VIEW 'A'



FRONT VIEW 'B'

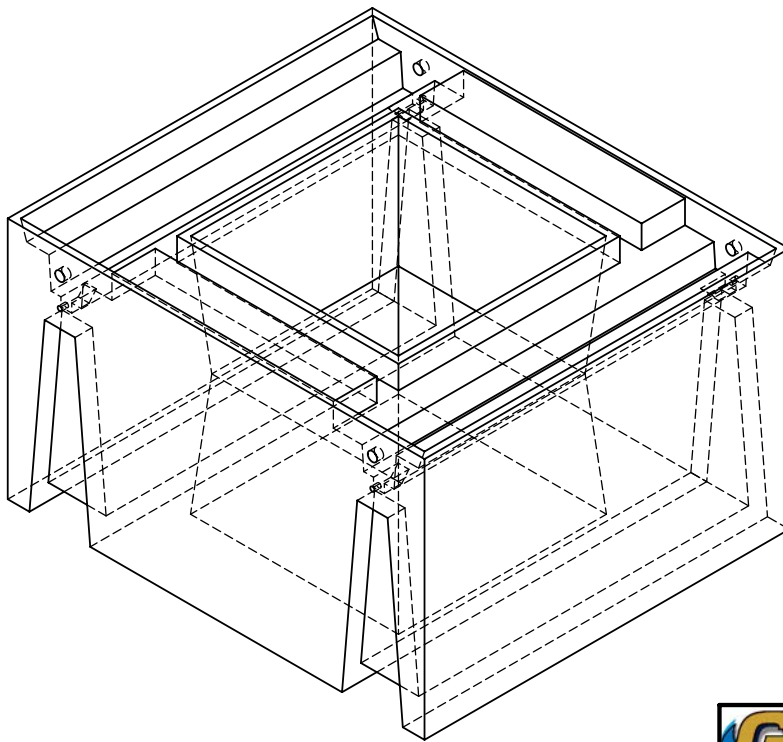


SIDE VIEW 'A'



SIDE VIEW 'B'

R.125 AROUND TOP PERIMETER  
R.25 TYPICAL ON REMAINDER OF PART



		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		GMBL NO	
CONCRETE DOCK			
CUSTOMER			
GMS			
MATERIAL	WEIGHT	FINISH	
DEN HARTOG	2080.08 LBS	NONE	
PART NUMBER	REV	DATE	SHEET
FP PONTOON	A	9/26/19	13 OF 19

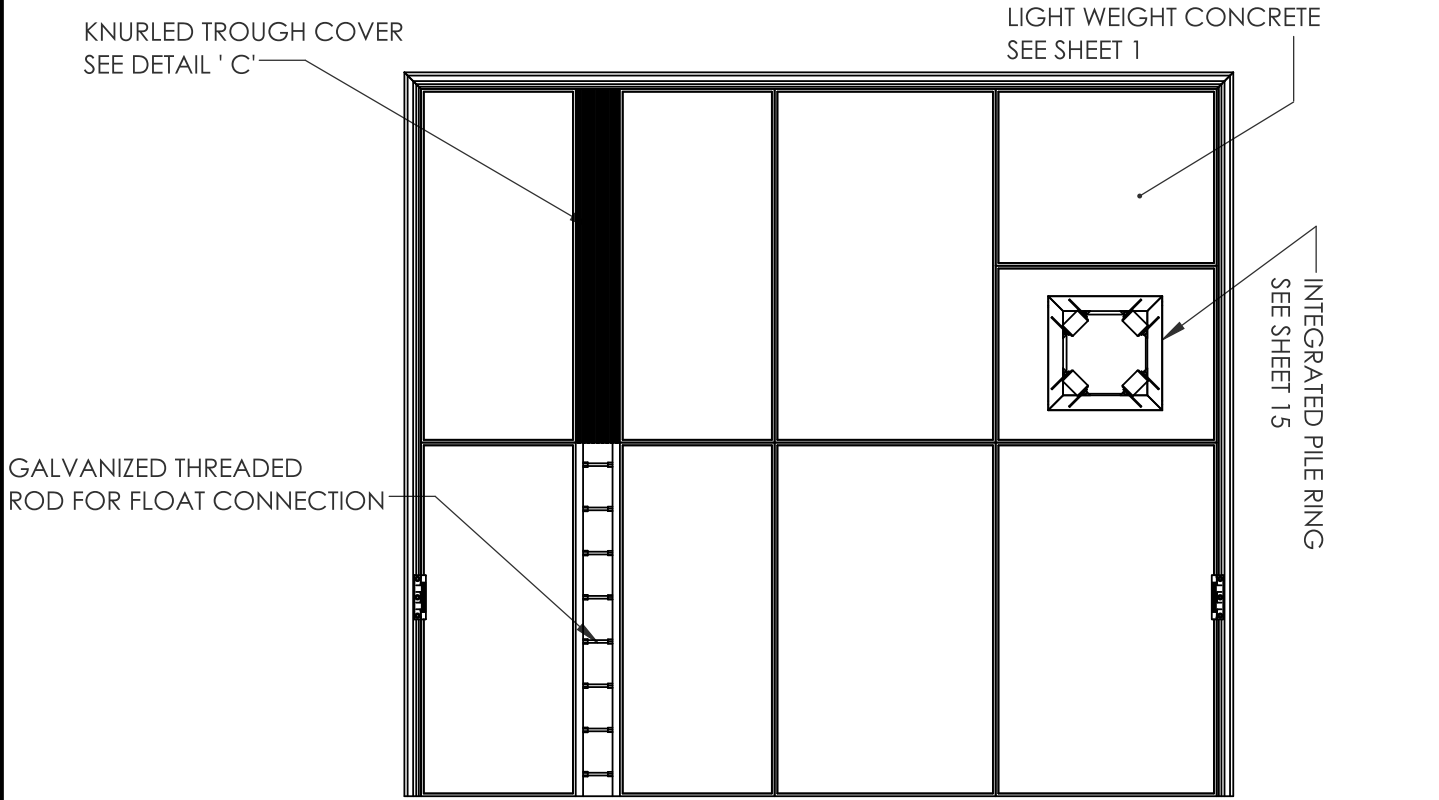
DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

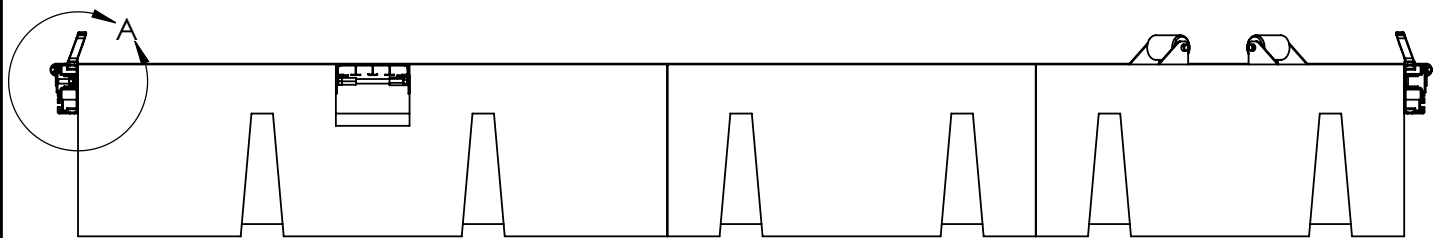
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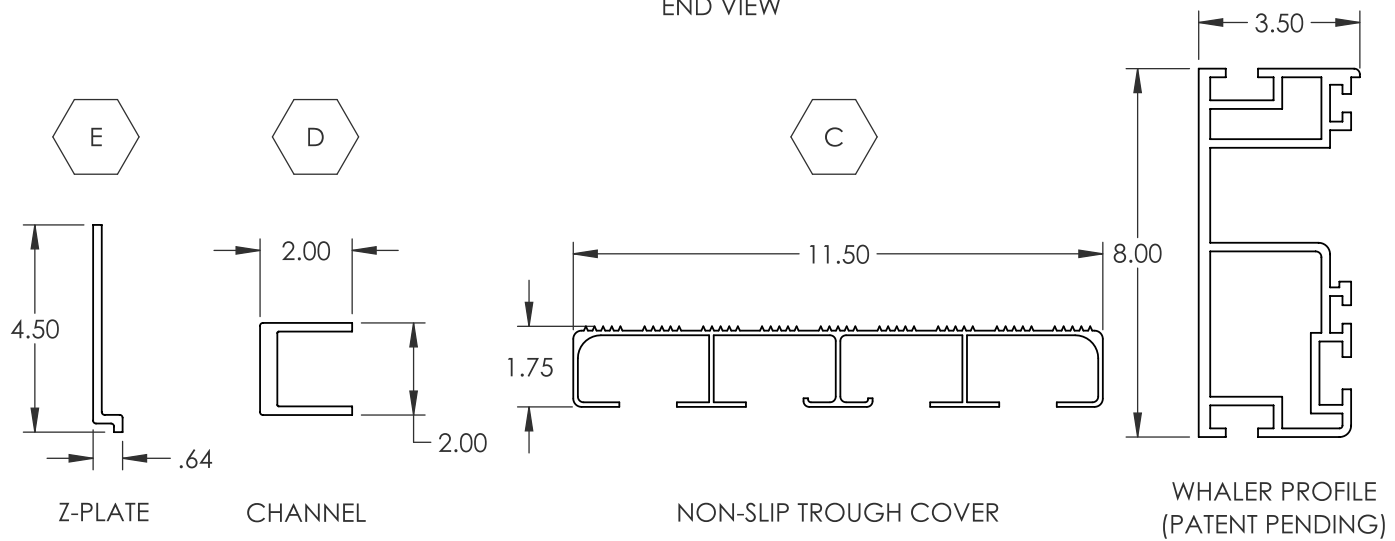
# TYPICAL DOCK ASSEMBLY



TOP VIEW

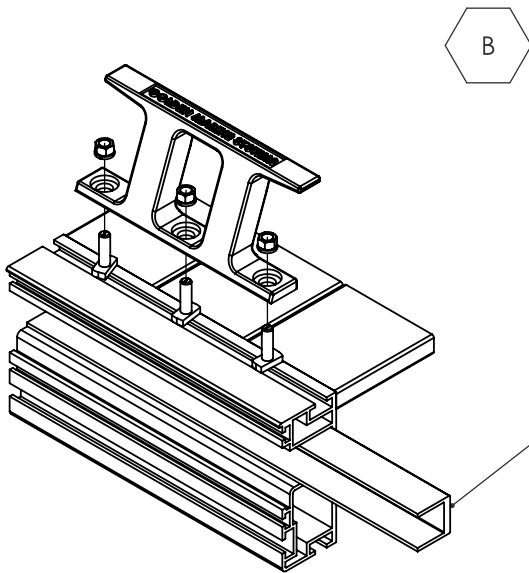


END VIEW



PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)

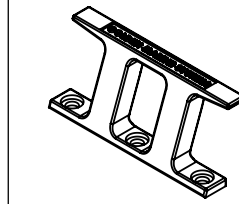




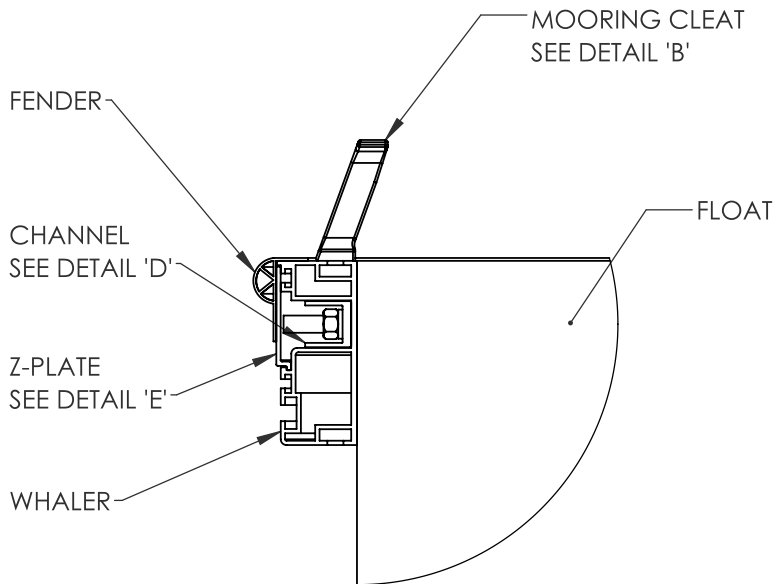
CLEAT ASSEMBLY DETAIL

CHANNEL OVERLAP FOR STRUCTURE STABILITY

AVAILABLE CLEATS



SIZES
12" GMS
16" GMS
18" GMS
20" GMS
10" S-CLEAT
12" S-CLEAT



DETAIL A  
TYPICAL WHALER ASSEMBLY

		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
		DESCRIPTION COMPREHENSIVE OVERVIEW	
PROJECT CONCRETE DOCK		GBL NO	
CUSTOMER GMS			
MATERIAL SEE BOM	WEIGHT \$8930.91 LBS	FINISH NONE	
PART NUMBER TYPICAL ASSEMBLY	REV DATE A 9/26/19	SHEET 14 OF 19	

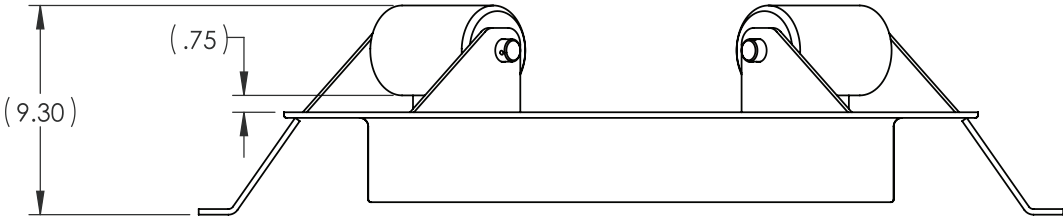
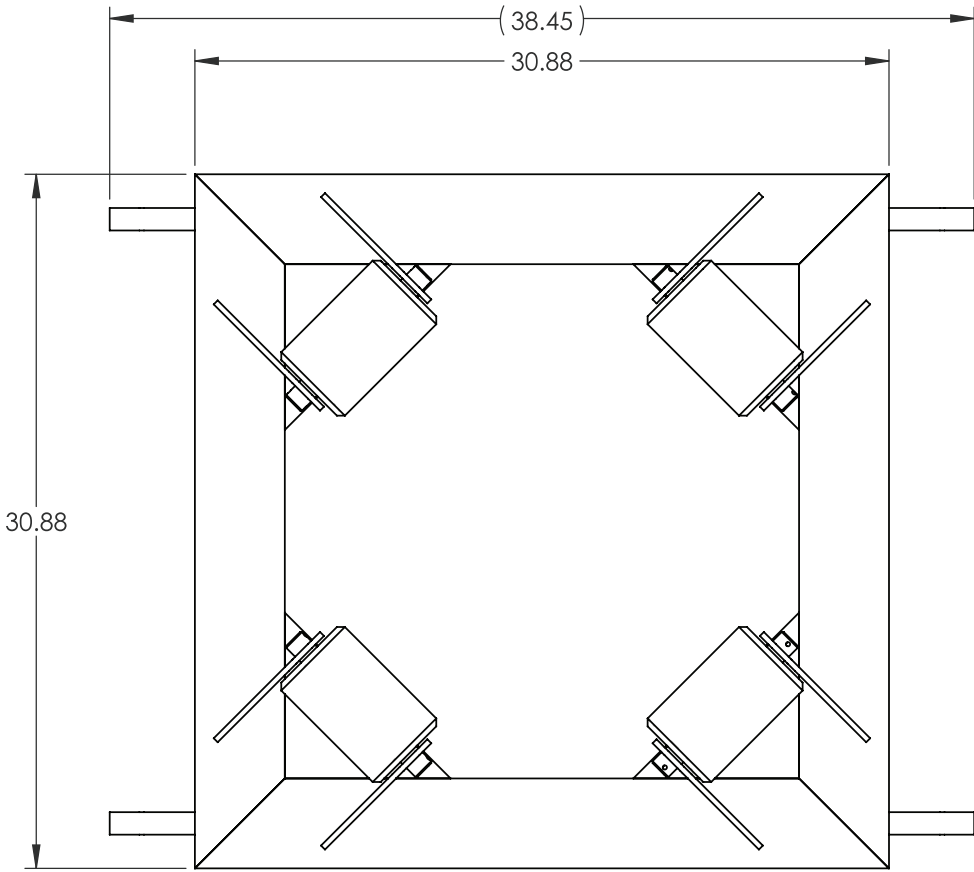
DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

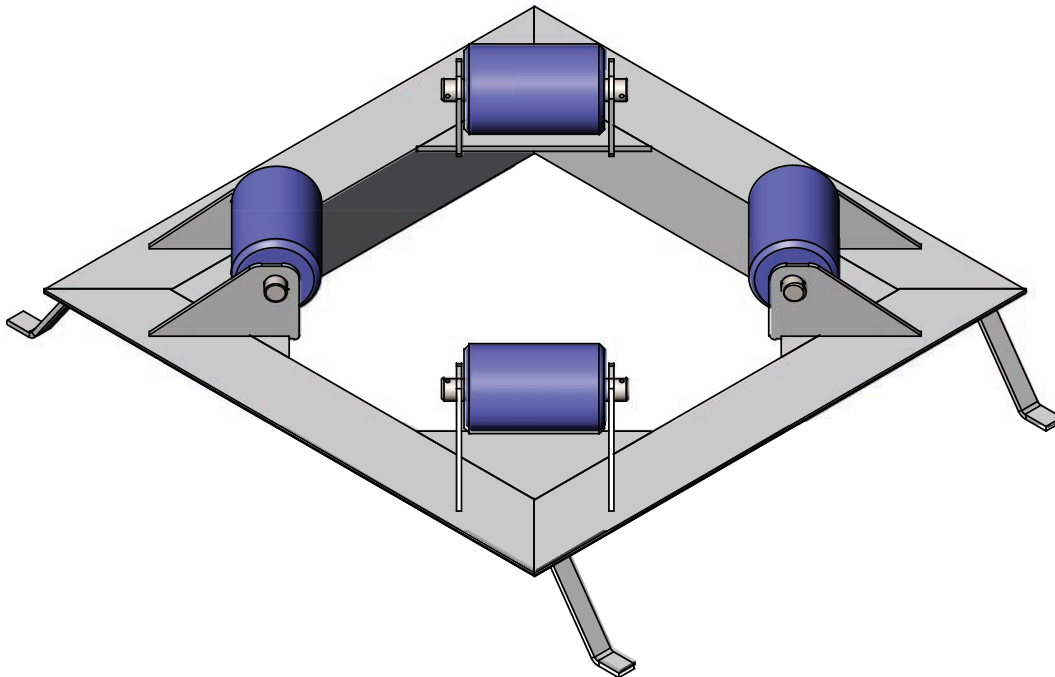
PROPRIETARY AND CONFIDENTIAL

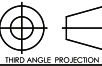

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# TYPICAL INTERNAL PILE GUIDE

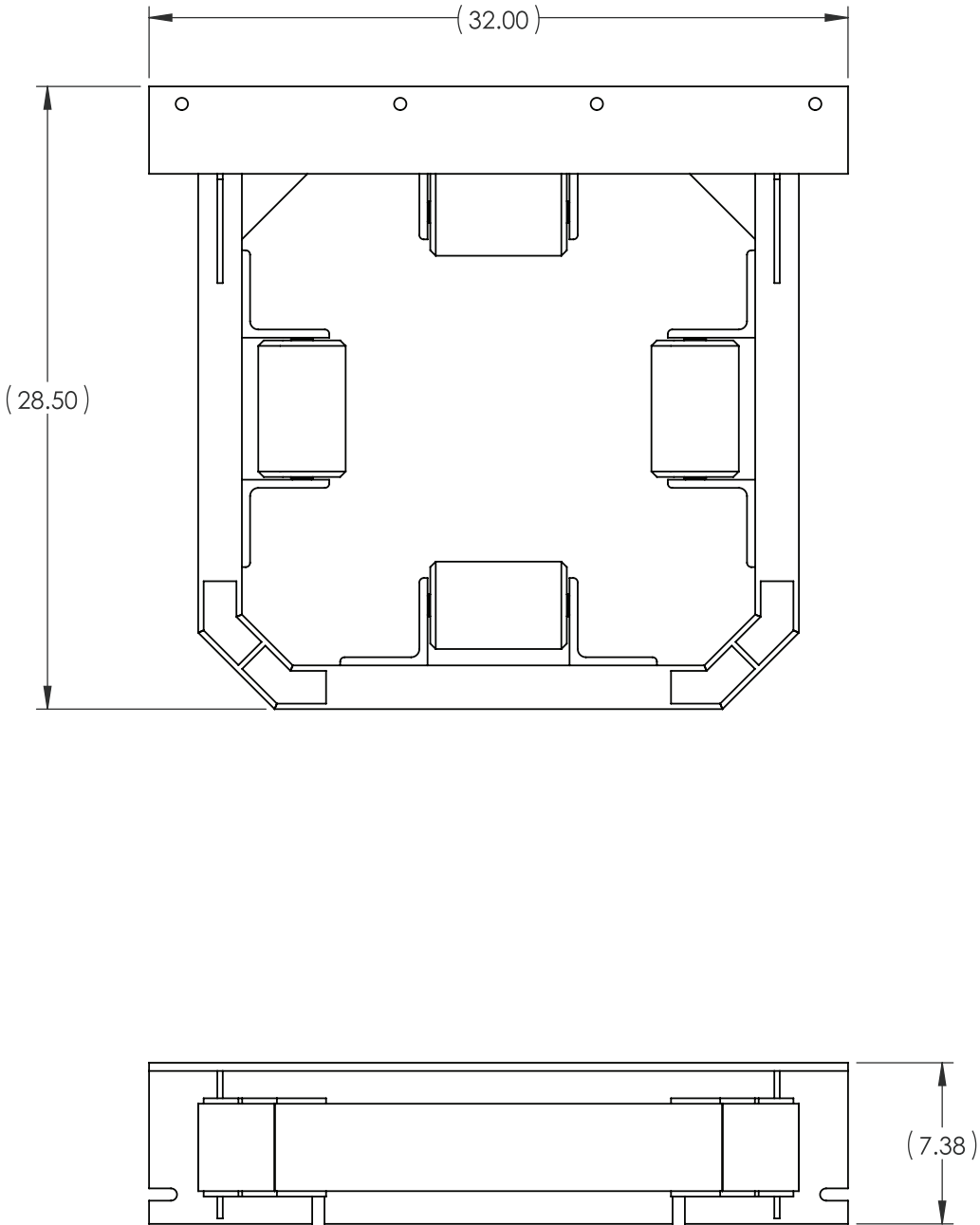


PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)

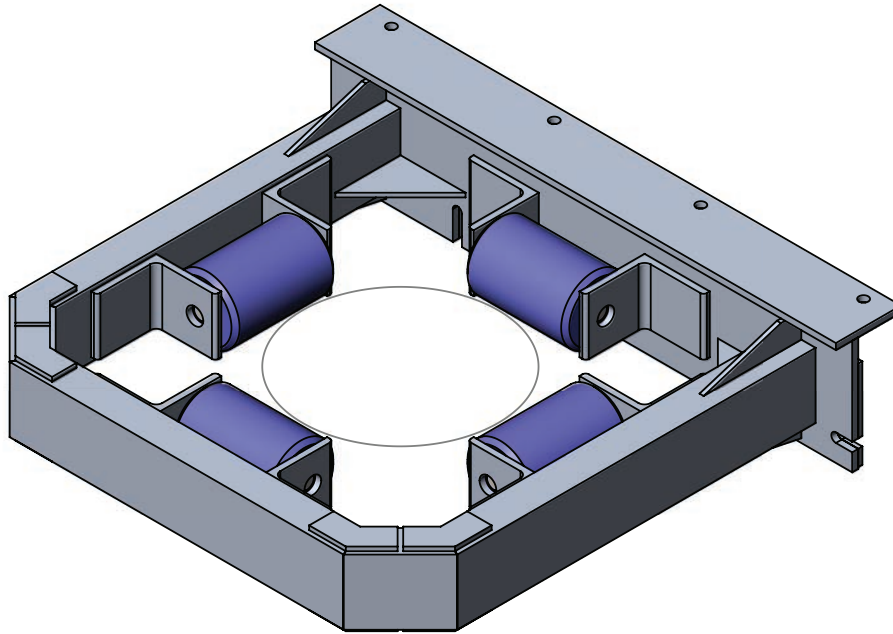


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	UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL..... ± 1/16 ANGULAR..... ± 1° (2) PLACE DECIMAL..... ± .01 (3) PLACE DECIMAL..... ± .001		DESCRIPTION <p style="text-align: center;">COMPREHENSIVE OVERVIEW</p>	
	INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5		PROJECT CONCRETE DOCK	GBL NO
	DO NOT SCALE DRAWING		CUSTOMER GMS	MATERIAL SEE BOM
		FINISH NONE	REV DATE A 9/26/19	SHEET 15 OF 19
		PART NUMBER CD-PR-18-ASM		

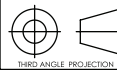
# OPTIONAL EXTERNAL PILE GUIDE



PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)



DEBURR AND REMOVE ALL SHARP EDGES



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL..... ± 1/16  
 ANGULAR..... ± 1°  
 (2) PLACE DECIMAL..... ± .01  
 (3) PLACE DECIMAL..... ± .001

INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5

DO NOT SCALE DRAWING

PROPRIETARY AND CONFIDENTIAL

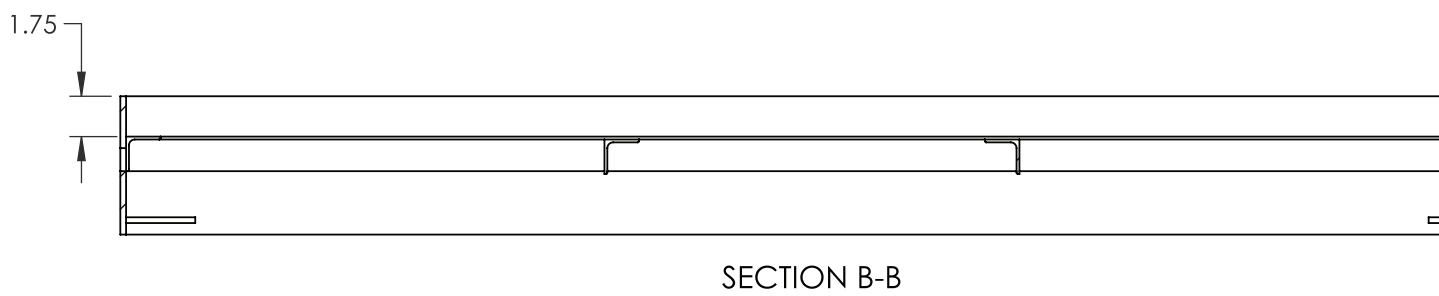
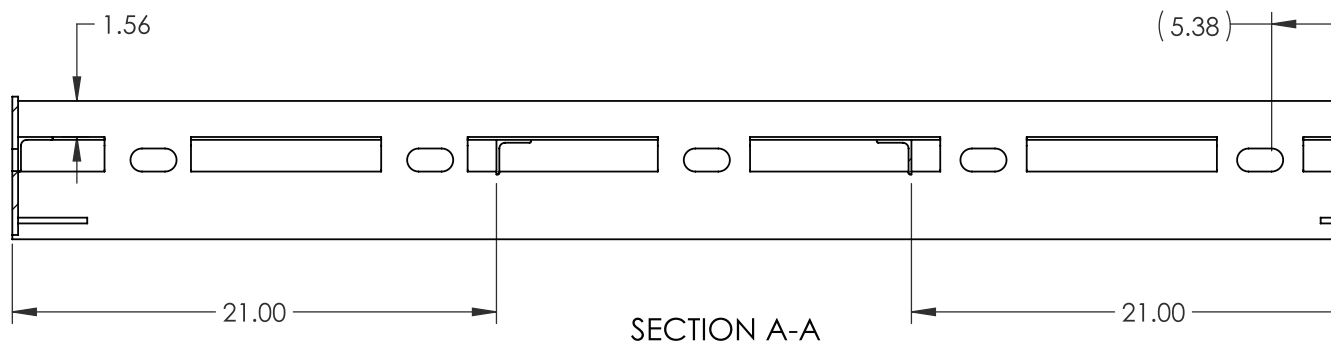
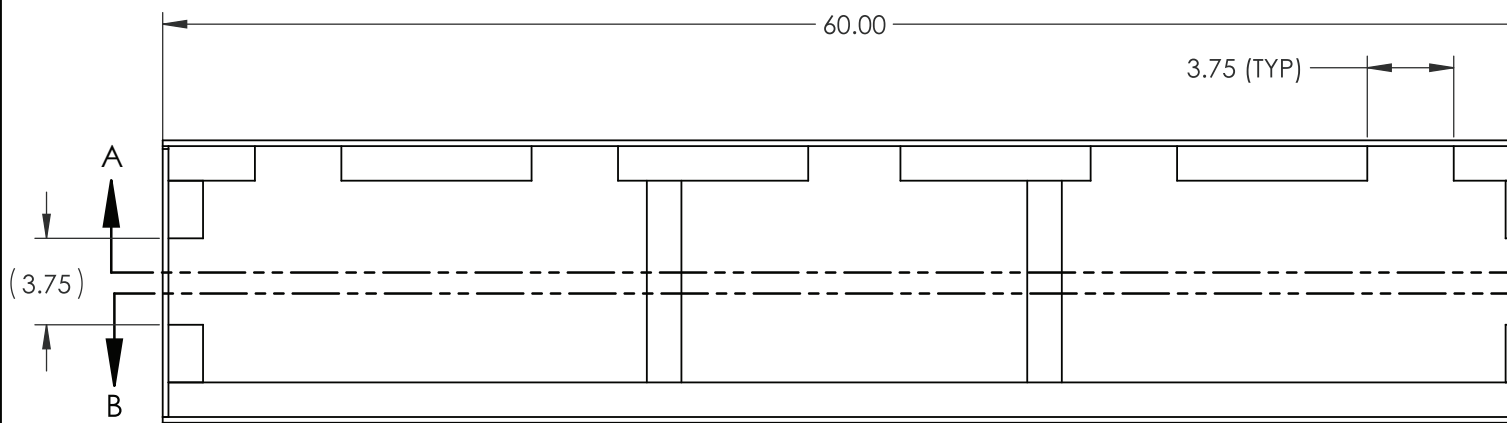
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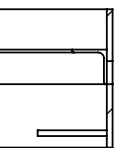
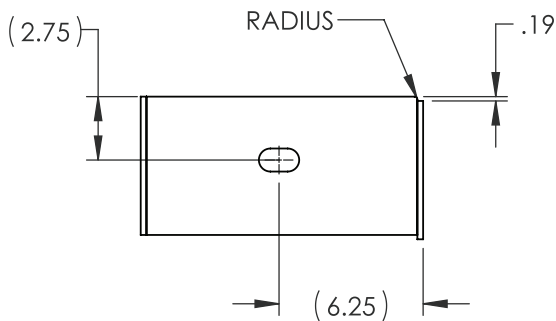
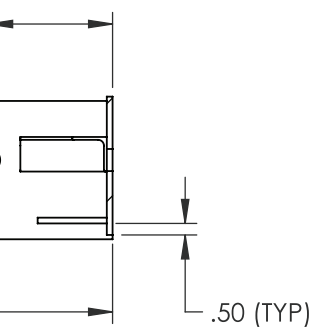
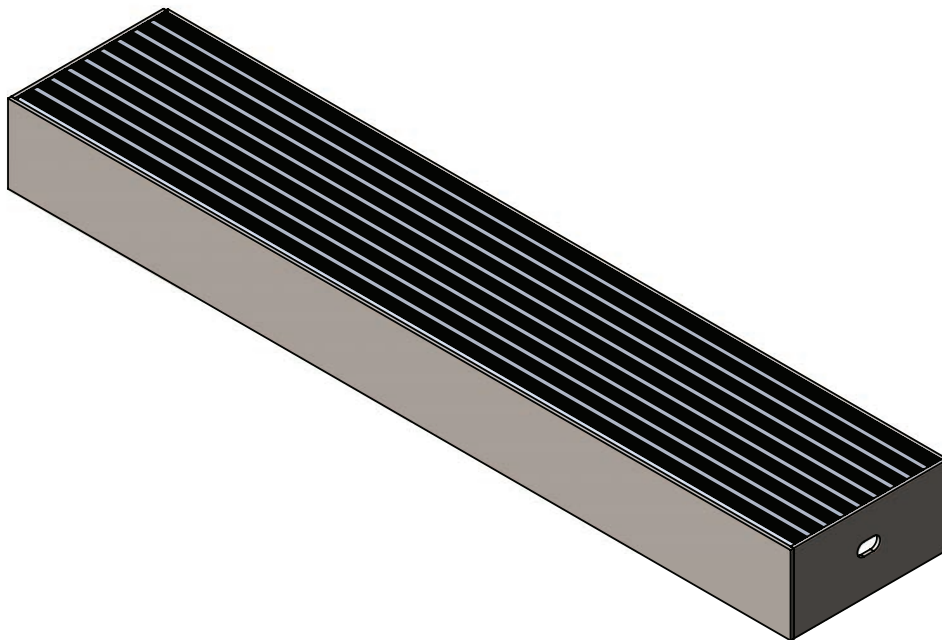
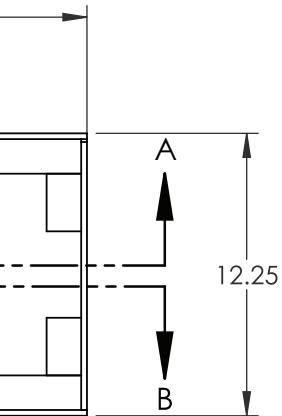
17611 EAST STREET  
 N. FORT MYERS, FL 33917  
 239-337-4141  
 MSHANLEY@GOLDENMARINESYSTEMS.COM

DESCRIPTION			COMPREHENSIVE OVERVIEW		
PROJECT		CONCRETE DOCK		GBL NO	
CUSTOMER					
GMS					
MATERIAL		WEIGHT		FINISH	
SEE BOM		60.25 LBS		NONE	
PART NUMBER		REV DATE		SHEET	
PG-EX-12ST-TLA		A 9/26/19		16 OF 19	

# TYPICAL FILLER FRAME (60")



PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)

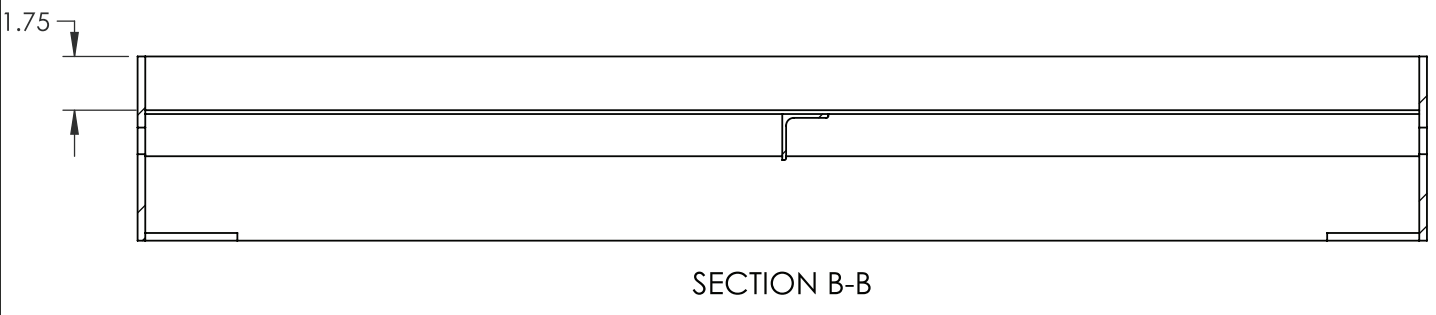
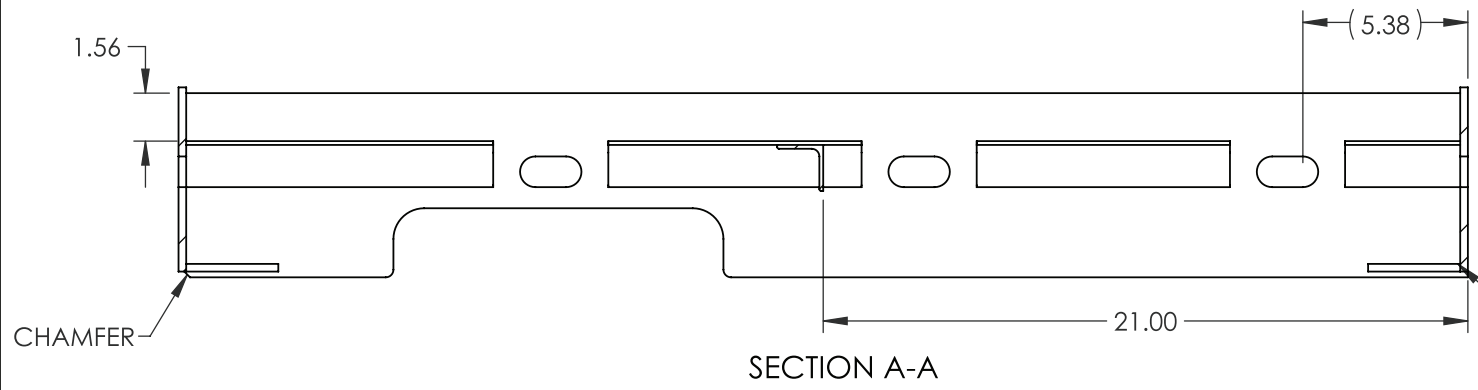
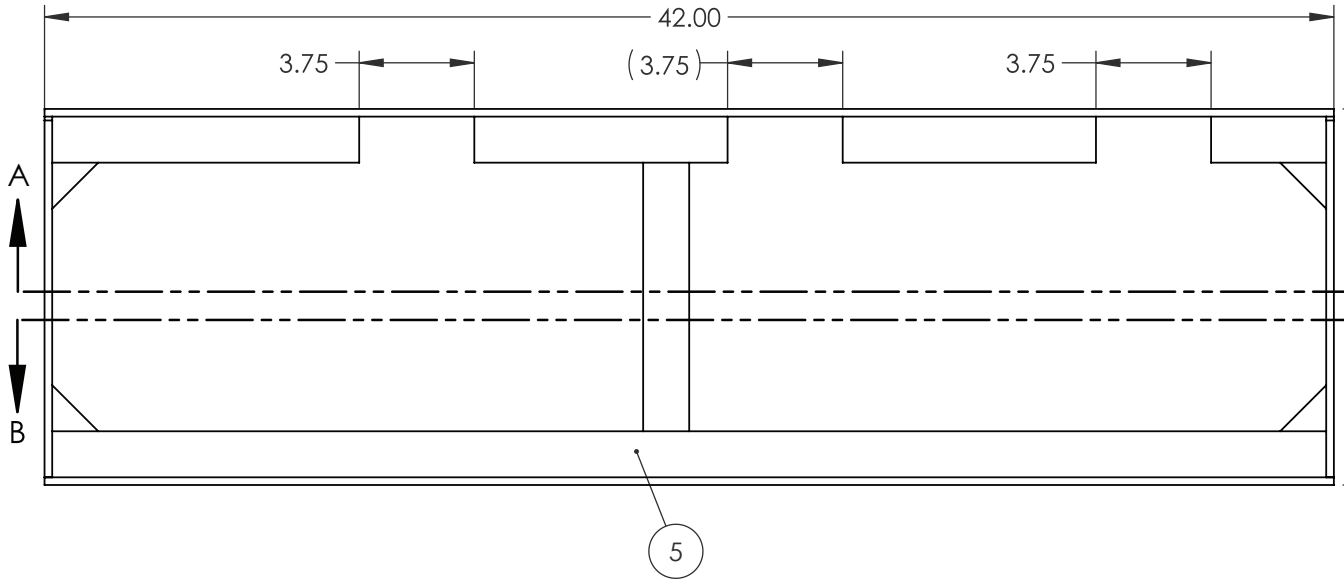


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DEBURR AND REMOVE ALL SHARP EDGES	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL..... ± 1/16 ANGULAR..... ± 1° (2) PLACE DECIMAL..... ± .01 (3) PLACE DECIMAL..... ± .001	
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5	
DO NOT SCALE DRAWING	

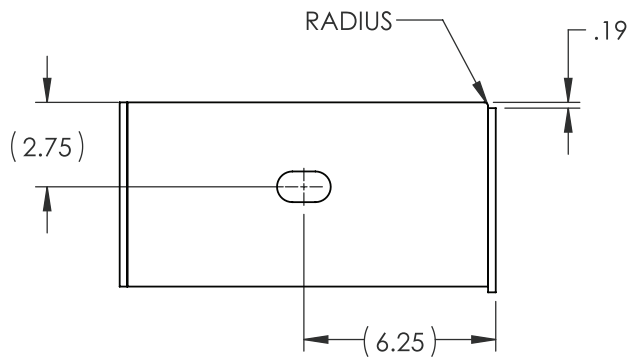
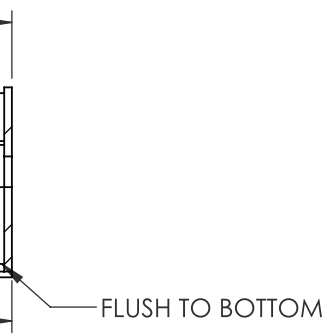
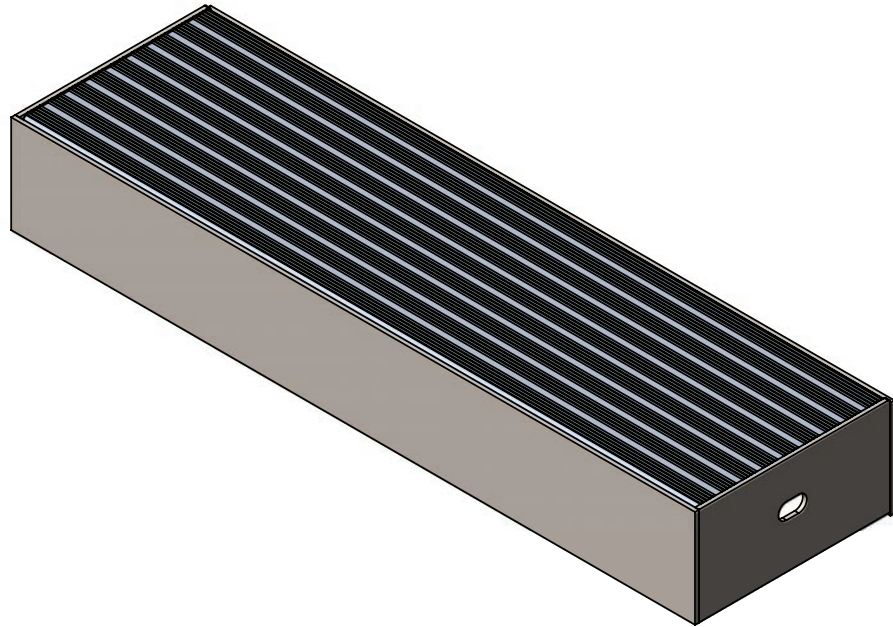
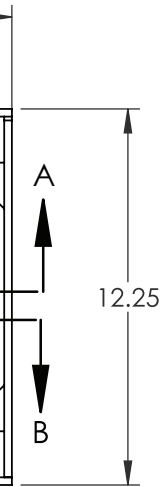
		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
DESCRIPTION COMPREHENSIVE OVERVIEW			
PROJECT CONCRETE DOCK	GBL NO		
CUSTOMER GMS			
MATERIAL SEE BOM	WEIGHT 91.39 LBS	FINISH NONE	
PART NUMBER CD-FF-60IN FRAME-A	REV A	DATE 9/26/19	SHEET 17 OF 19

# TYPICAL FILLER FRAME (42")



PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)



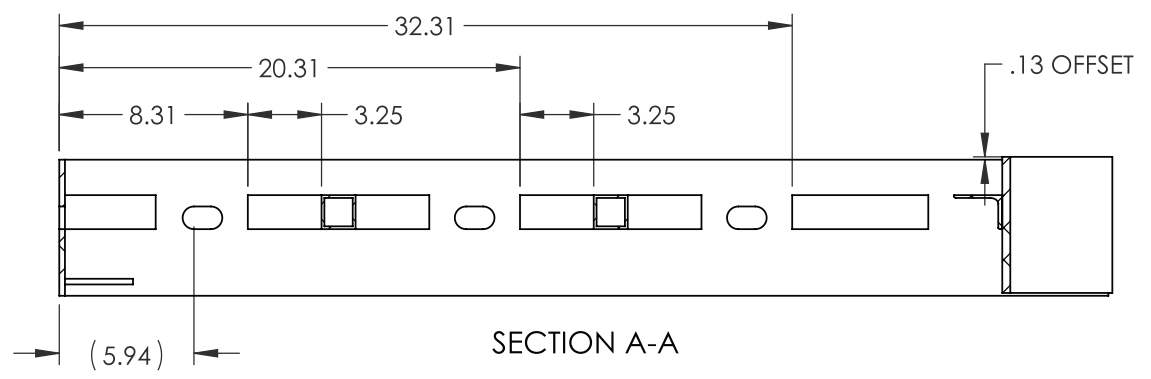
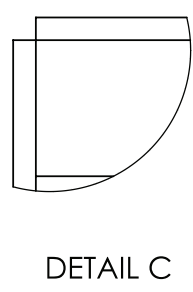
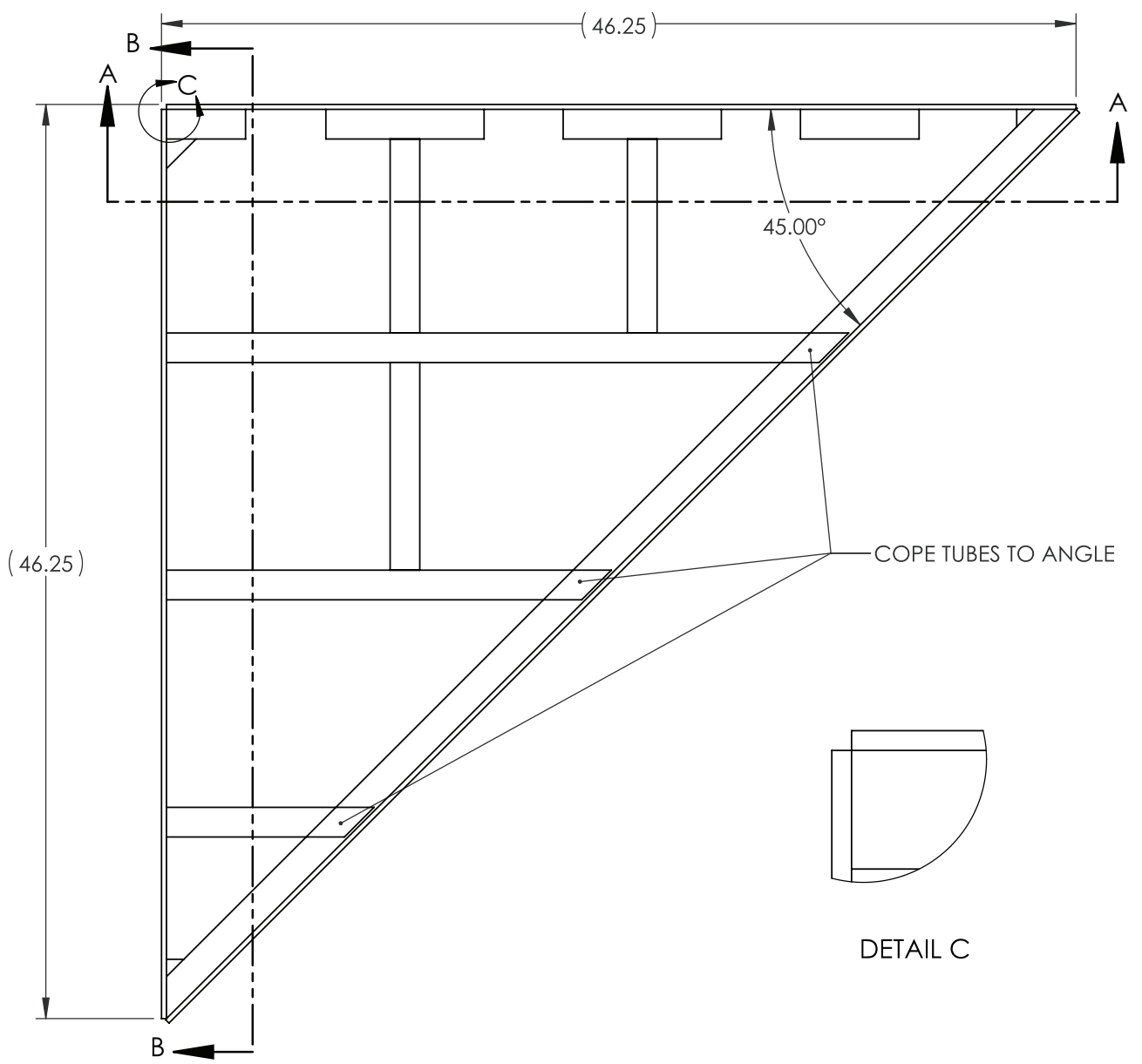


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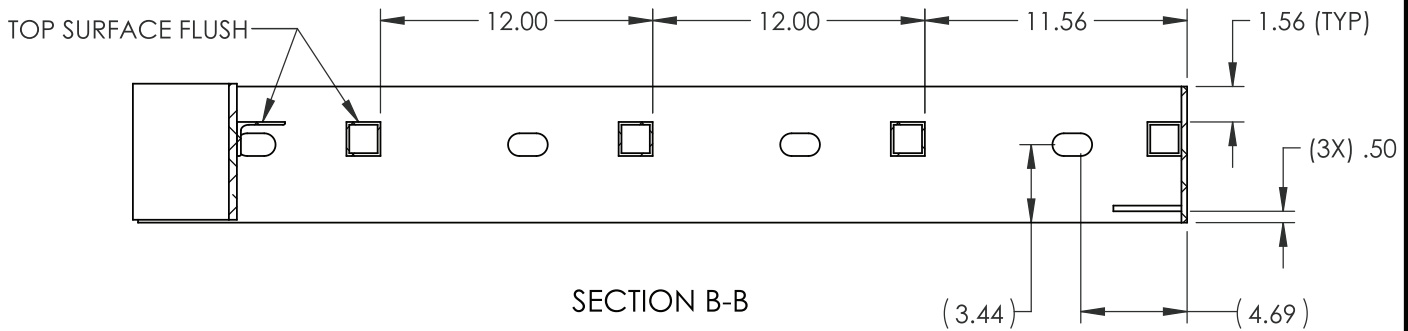
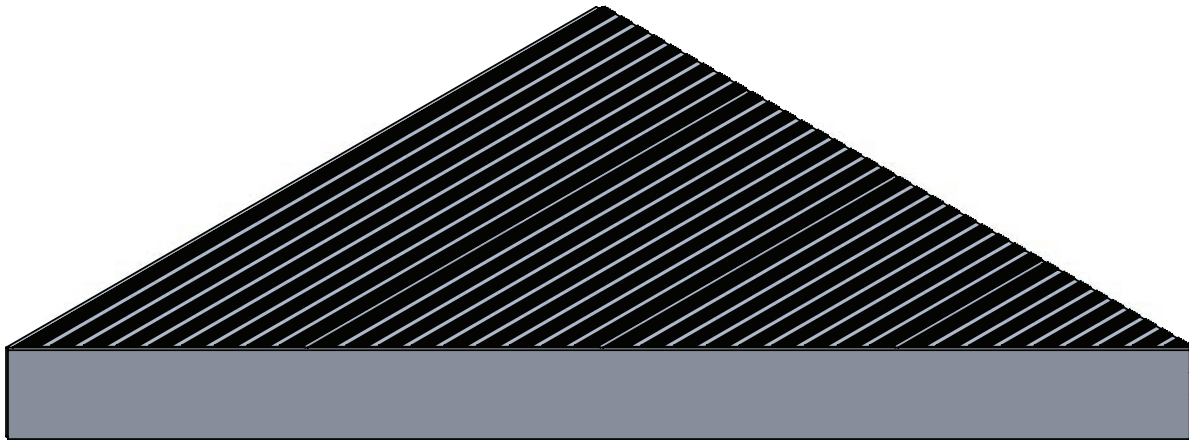
DEBURR AND REMOVE ALL SHARP EDGES	
THIRD ANGLE PROJECTION	
UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN INCHES	
TOLERANCES:	
FRACTIONAL.....	± 1/16
ANGULAR.....	± 1°
(2) PLACE DECIMAL.....	± .01
(3) PLACE DECIMAL.....	± .001
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5	
DO NOT SCALE DRAWING	

		17611 EAST STREET	
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		239-337-4141	
		MSHANLEY@GOLDENMARINESYSTEMS.COM	
DESCRIPTION			
COMPREHENSIVE OVERVIEW			
PROJECT		CONCRETE DOCK	
CUSTOMER		GMS	
MATERIAL	WEIGHT	FINISH	
SEE BOM	53.14 LBS	NONE	
PART NUMBER	REV	DATE	SHEET
CD-FF-42IN FRAME-A	A	9/26/19	18 OF 19

# TYPICAL FINGER DOCK GUSSET



PATENT# 6,250,945  
ALUMINUM WHALER (PATENT PENDING)



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DEBURR AND REMOVE ALL SHARP EDGES	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL..... ± 1/16 ANGULAR..... ± 1° (2) PLACE DECIMAL..... ± .01 (3) PLACE DECIMAL..... ± .001	
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5	
DO NOT SCALE DRAWING	

		17611 EAST STREET N. FORT MYERS, FL 33917 239-337-4141 MSHANLEY@GOLDENMARINESYSTEMS.COM	
DESCRIPTION COMPREHENSIVE OVERVIEW			
PROJECT CONCRETE DOCK		GBL NO	
CUSTOMER GMS			
MATERIAL SEE BOM		WEIGHT 33.49 LBS	FINISH NONE
PART NUMBER CD-FG-FRAME-LH2		REV/DATE A 9/26/19	SHEET 19 OF 19



**SERIES 950**  
**ALUMINUM**

# SERIES 950 ALUMINUM

- For Small Boat Marinas to Mega Yacht Marinas
- Double Track Extrusion
- Adjustable Cleats
- Pile Guides
- Finger Piers
- 3/16 Inch Thick Webbed Extrusion
- All materials are of the highest-grade marine alloys including 6061 - T6 aluminum for the structures and 300 Series marine grade stainless steel for all connecting components.
- The design features of the floating docks allow for easy installation or future modifications.
- The ease of dock installation helps reduce constructions cost by minimizing the man-hours required to install.
- Ability to add additional sections, finger piers, pile guides or accessories (pedestals, lighting, handrails, flag post, canopy posts) by utilizing custom made connection brackets.
- Cleats can be easily moved or replaced without the need to remove boards or thru-bolts.



## **SERIES 950 ALUMINUM**

- All floats are polyethylene with polystyrene EPS closed-cell foam. The floats are attached to the extrusion utilizing all marine-grade stainless steel bolts and locking nuts.
- Polyurethane rubber noise-free connectors for connecting dock sections are rated at 12,000 PSI. Each dock section has at least two connectors bringing the strength factor to a minimum of 24,000 PSI. The connectors are flexible and allow the dock system to articulate during storm or wave events. This prohibits the rigid binding of the dock system.
- Various decking is available including natural hardwoods, composite, aluminum pavers, and polyethylene decking panels – which allow light to seep through. All decking fits easily into the system allowing for easy replacement if damaged.
- Various fenders are available including natural hardwoods, composite, PVC, Vinyl, and HPDM rubbers.
- Utility access panels are available that allow easy access to all utilities both during installation and periodic maintenance needs.
- Various types and cleats are available that range in sizes from 10” to 20.” The cleats are also marine grade cast aluminum allow which allows for durable strength and long life.
- All materials are manufactured in the U.S.A, Fort Myers, Fl by certified aluminum fabricators under ISO-9001 2015 standards, policies, and procedures.



**SEYCHELLES**



**MOSS MARINE**



**MOSS MARINE**



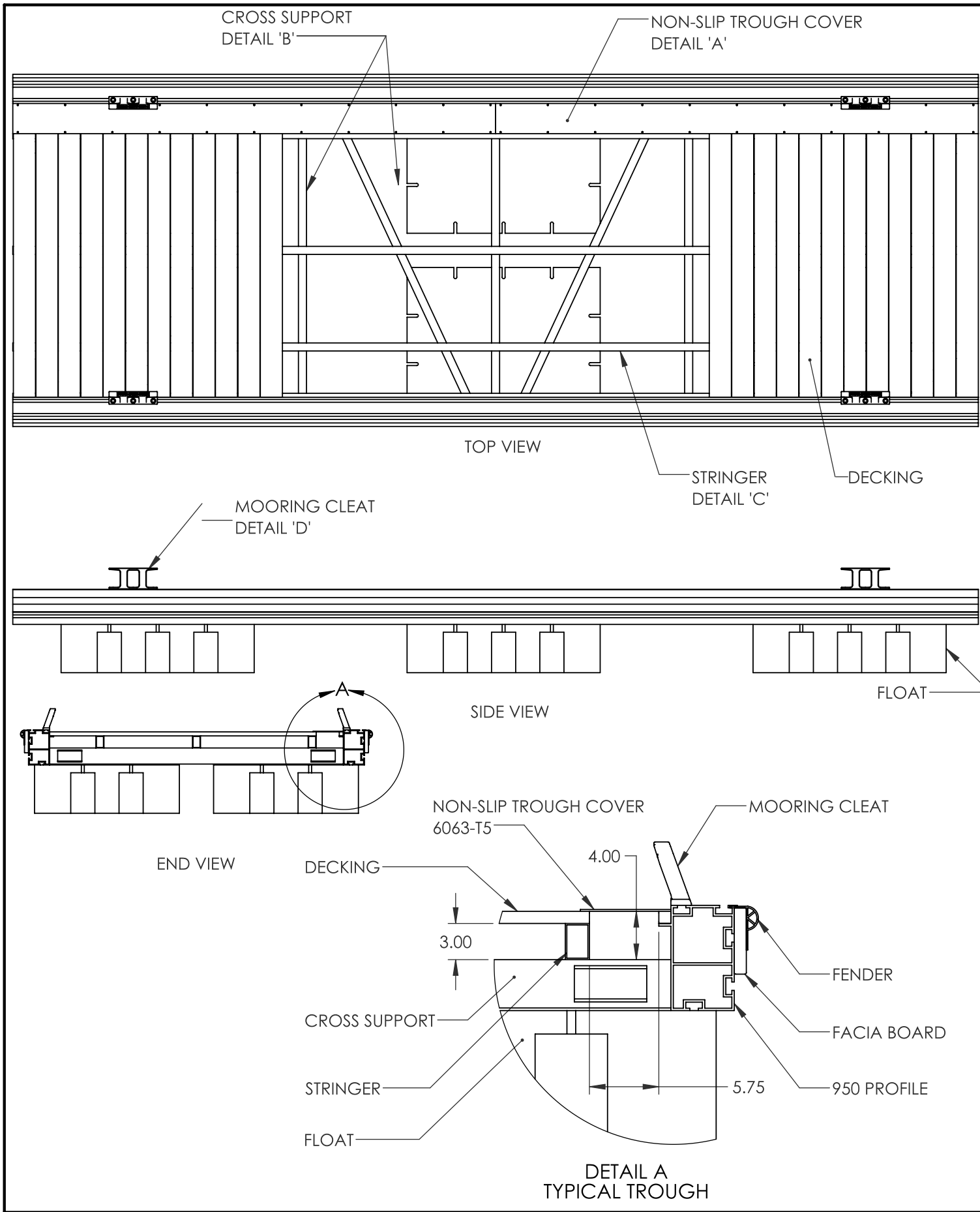
**MOSS MARINE**



**SEYCHELLES**



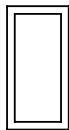
**MOSS MARINE**





B

CROSS SUPPORT DETAIL



2.0" X 4.0" X 0.25"  
RECT TUBE 6061-T6

C

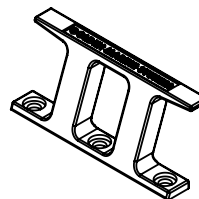
STRINGER DETAIL



2.0" X 3.0" X 0.125"  
RECT TUBE 6061-T6

D

AVAILABLE CLEATS



CAST ALUMINUM

SIZES

12" GMS

16" GMS

18" GMS

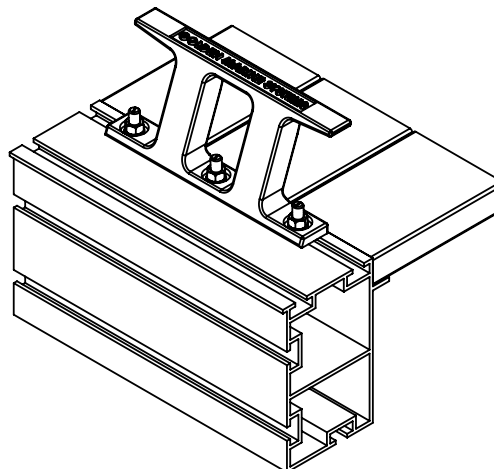
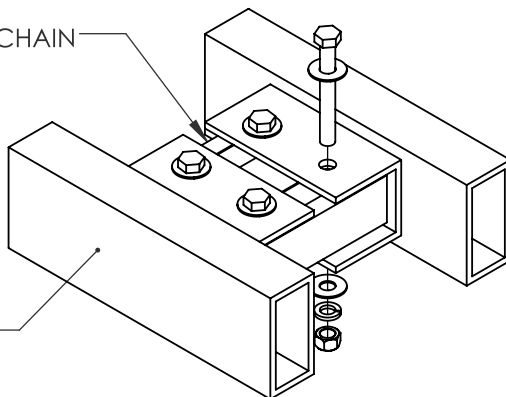
20" GMS

10" S-CLEAT

12" S-CLEAT

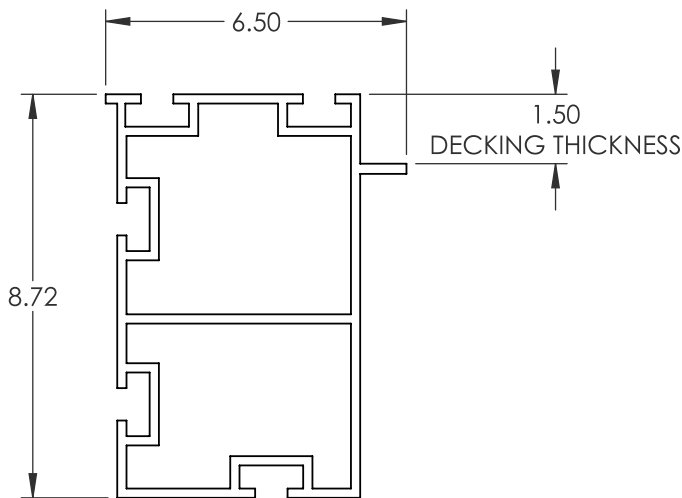
80 DUROMETER  
URETHANE BLOCK  
WITH INTEGRATED CHAIN

CROSS SUPPORT



TYPICAL DOCK-DOCK CONNECTION

CLEAT ASSEMBLY DETAIL



950 PROFILE  
(6005A-T6)

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950 DOCK OVERVIEW

ENGINEERING SALES OVERVIEW

DATE  
3/28/19

SHEET  
1 OF 1



**SERIES 850**

**ALUMINUM**

## SERIES 850 ALUMINUM

- For Small Boat Marinas to Large Boat Marinas
- Single Track Extrusion
- Adjustable Cleats
- Pile Guides
- Finger Piers
- 3/16 Inch Thick Web Extrusion



- All materials are of the highest-grade marine alloys including 6061 - T6 aluminum for the structures and 300 Series marine grade stainless steel for all connecting components.
- The design features of the floating docks allow for easy installation or future modifications.
- The ease of dock installation helps reduce constructions cost by minimizing the man-hours required to install.
- Ability to add additional sections, finger piers, pile guides or accessories (pedestals, lighting, handrails, flag post, canopy posts) by utilizing custom made connection brackets.
- Cleats can be easily moved or replaced without the need to remove boards or thru-bolts.

## **SERIES 850 ALUMINUM**

- All floats are polyethylene with polystyrene EPS closed-cell foam. The floats are attached to the extrusion utilizing all marine-grade stainless steel bolts and locking nuts.
- Polyurethane rubber noise-free connectors for connecting dock sections are rated at 12,000 PSI. Each dock section has at least two connectors bringing the strength factor to a minimum of 24,000 PSI. The connectors are flexible and allow the dock system to articulate during storm or wave events. This prohibits the rigid binding of the dock system.
- Various decking is available including natural hardwoods, composite, aluminum pavers, and polyethylene decking panels – which allow light to seep through. All decking fits easily into the system allowing for easy replacement if damaged.
- Various fenders are available including natural hardwoods, composite, PVC, Vinyl, and HPDM rubbers.
- Utility access panels are available that allow easy access to all utilities both during installation and periodic maintenance needs.
- Various types and cleats are available that range in sizes from 10” to 20.” The cleats are also marine grade cast aluminum allow which allows for durable strength and long life.
- All materials are manufactured in the U.S.A, Fort Myers, Fl by certified aluminum fabricators under ISO-9001 2015 standards, policies, and procedures.



**MARINE MAX**



**MOSS MARINE**



**GULF STAR**



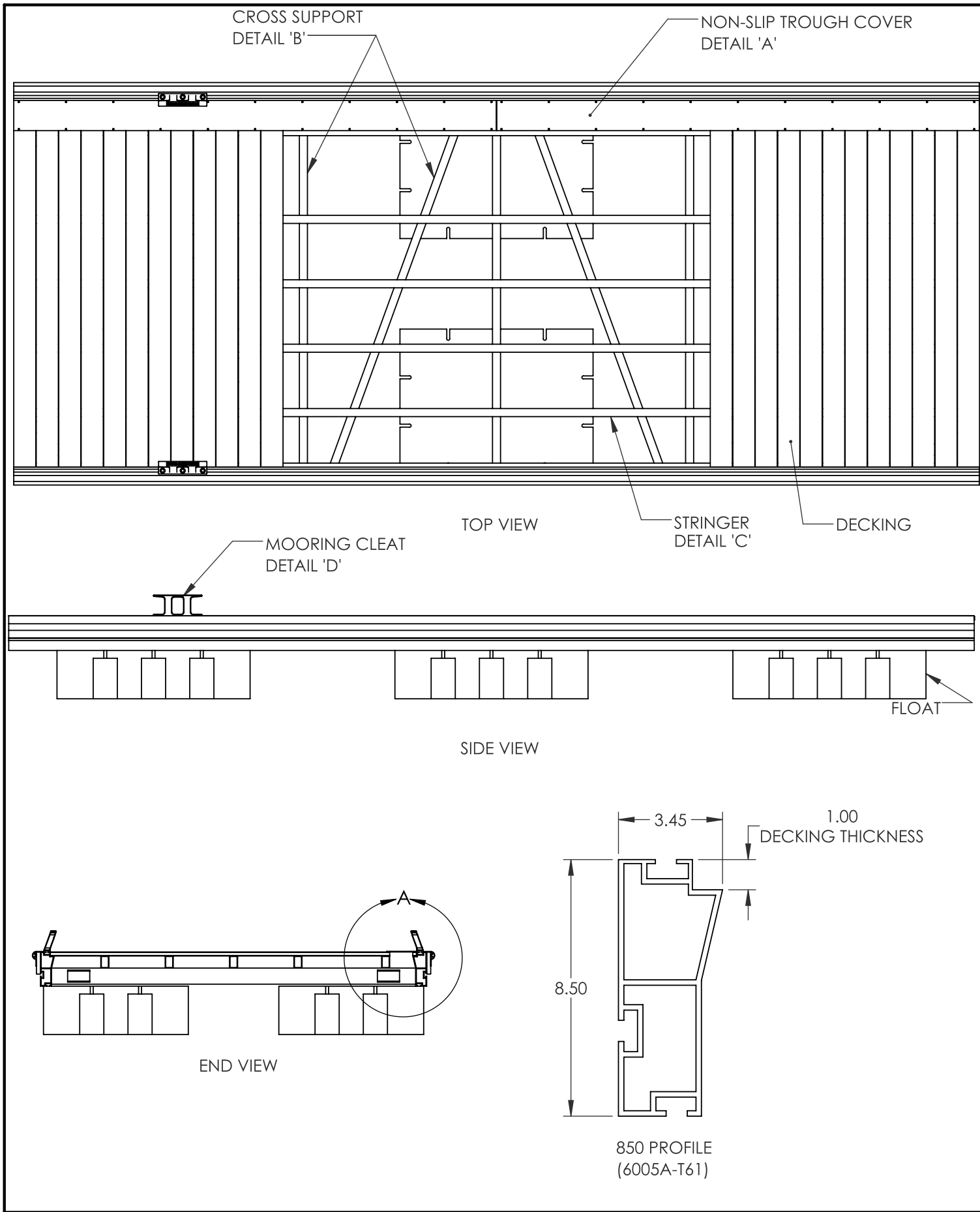
**CLERMONT**



**MARINE MAX**

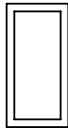


**MARINE MAX**



B

CROSS SUPPORT DETAIL



2.0" X 4.0" X 0.25"  
RECT TUBE 6061-T6

C

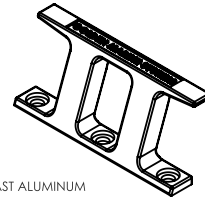
STRINGER DETAIL



2.0" X 3.0" X 0.125"  
RECT TUBE 6061-T6

D

AVAILABLE CLEATS



CAST ALUMINUM

SIZES

12" GMS

16" GMS

18" GMS

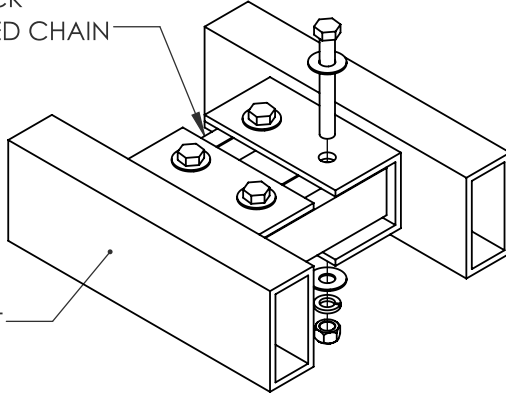
20" GMS

10" S-CLEAT

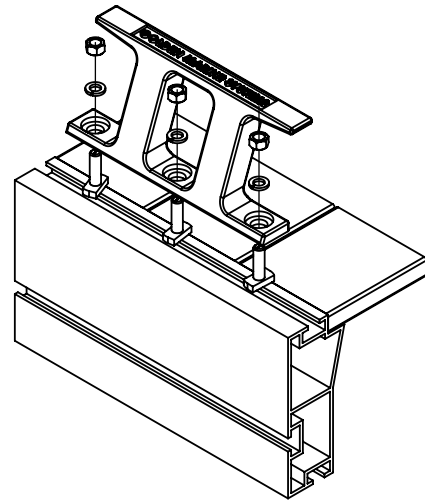
12" S-CLEAT

90 DUROMETER  
URETHANE BLOCK  
WITH INTEGRATED CHAIN

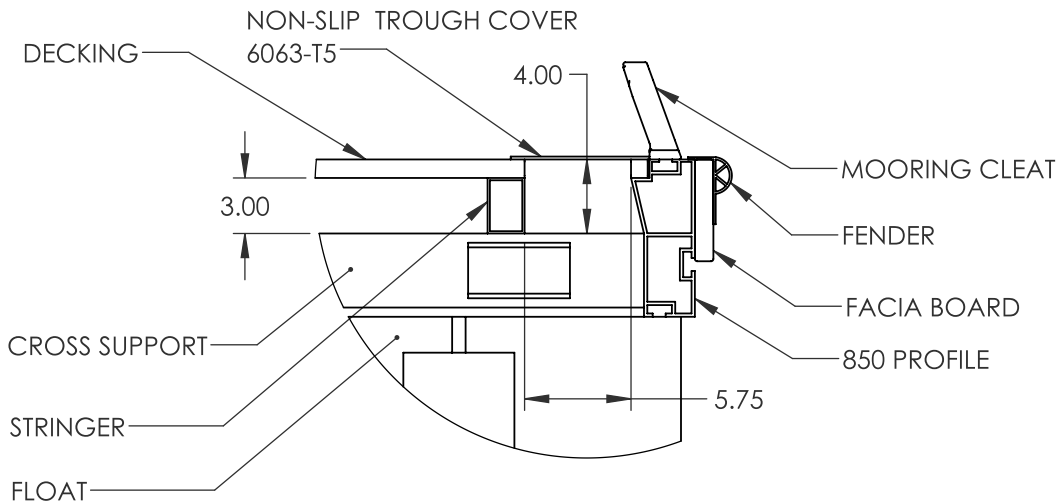
CROSS SUPPORT



TYPICAL DOCK-DOCK CONNECTION



CLEAT ASSEMBLY DETAIL



DETAIL A  
TYPICAL TROUGH

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850 DOCK OVERVIEW

ENGINEERING SALES OVERVIEW

DATE  
3/27/19

SHEET  
1 OF 1

A black and white photograph of a marina. In the background, there is a large, two-story building with many windows, likely a clubhouse or office. Several palm trees are scattered around the building. In the foreground, there are several wooden docks extending into the water, with some boats moored. The sky is filled with large, dramatic clouds. The overall scene is a typical waterfront marina setting.

**SERIES 9**

**ALUMINUM**



## SERIES 9 ALUMINUM

- For Residential to Small Boat Marinas
- All materials are of the highest-grade marine alloys including 6061 - T6 aluminum for the structures and 300 Series marine grade stainless steel for all connecting components.
- The design features of the floating docks allow for easy installation or future modifications.
- The ease of dock installation helps reduce constructions cost by minimizing the man-hours required to install.
- Ability to add additional sections, finger piers, pile guides or accessories (pedestals, lighting, handrails, flag post, canopy posts) by utilizing custom made connection brackets.

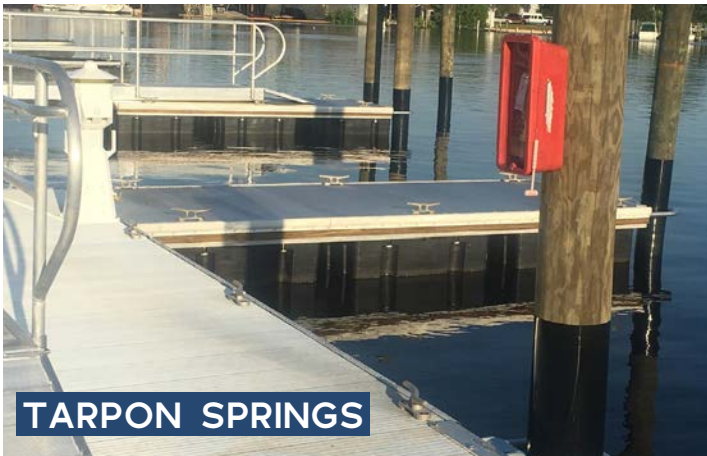


## **SERIES 9 ALUMINUM**

- Various decking is available including natural hardwoods, composite, aluminum, brick pavers, and polyethylene decking panels –which allow light to seep through. All decking fits easily into the system allowing for easy replacement if damaged.
- All floats are polyethylene with polystyrene EPS closed-cell foam. The floats are attached to the extrusion utilizing all marine-grade stainless steel bolts and locking nuts.
- Various fenders are available including natural hardwoods, composite, PVC, Vinyl, and HPDM rubbers.
- Utility access panels are available that allow easy access to all utilities both during installation and periodic maintenance needs.
- Various types and cleats are available that range in sizes from 10” to 20.” The cleats are also marine grade cast aluminum allow which allows for durable strength and long life.
- Polyurethane rubber noise-free connectors for connecting dock sections are rated at 12,000 PSI. Each dock section has at least two connectors bringing the strength factor to a minimum of 24,000 PSI.
- The connectors are flexible and allow the dock system to articulate during storm or wave events. This prohibits the rigid binding of the dock system.
- All materials are manufactured in the U.S.A, Fort Myers, Fl by certified aluminum fabricators under ISO-9001 2015 standards, policies, and procedures.



**HARBOR COVE**



**TARPON SPRINGS**



**NORTH PALM**



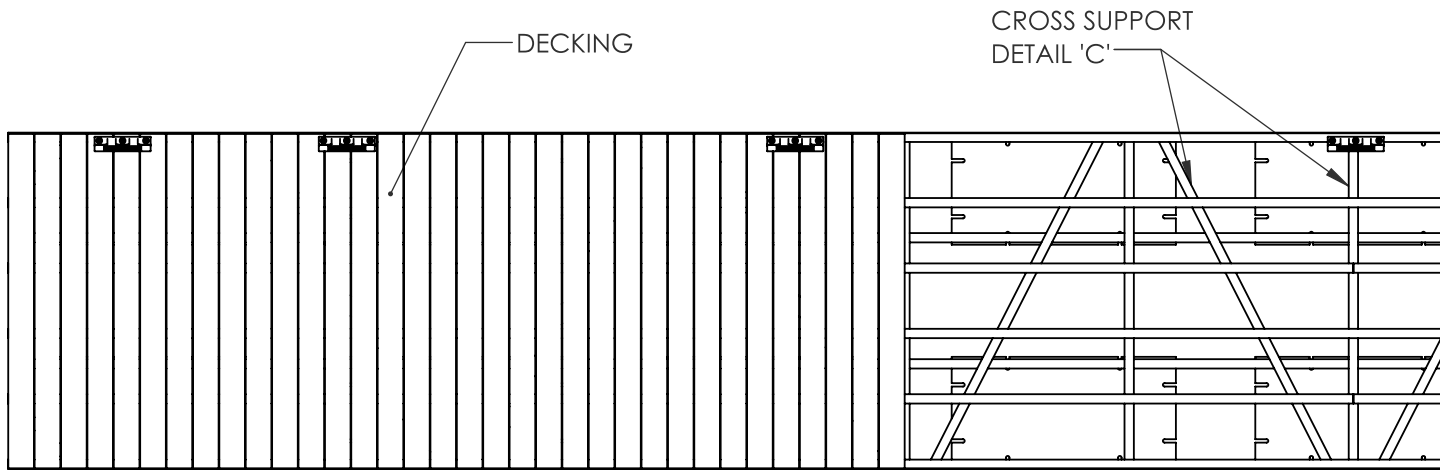
**HARBOR COVE**



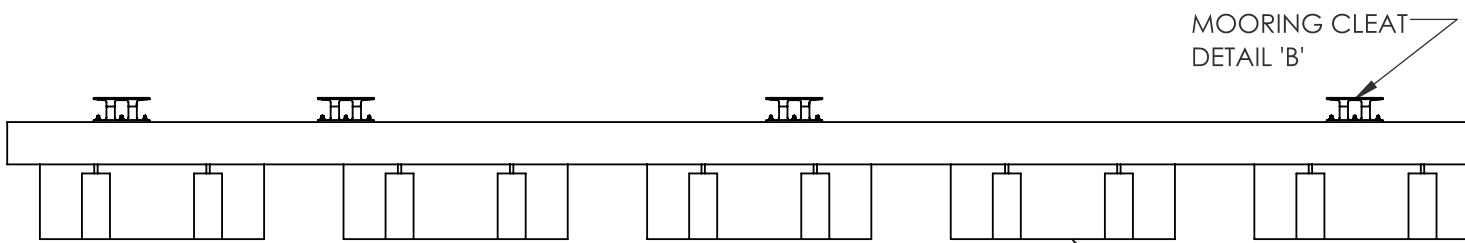
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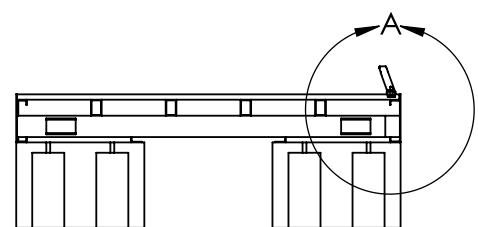
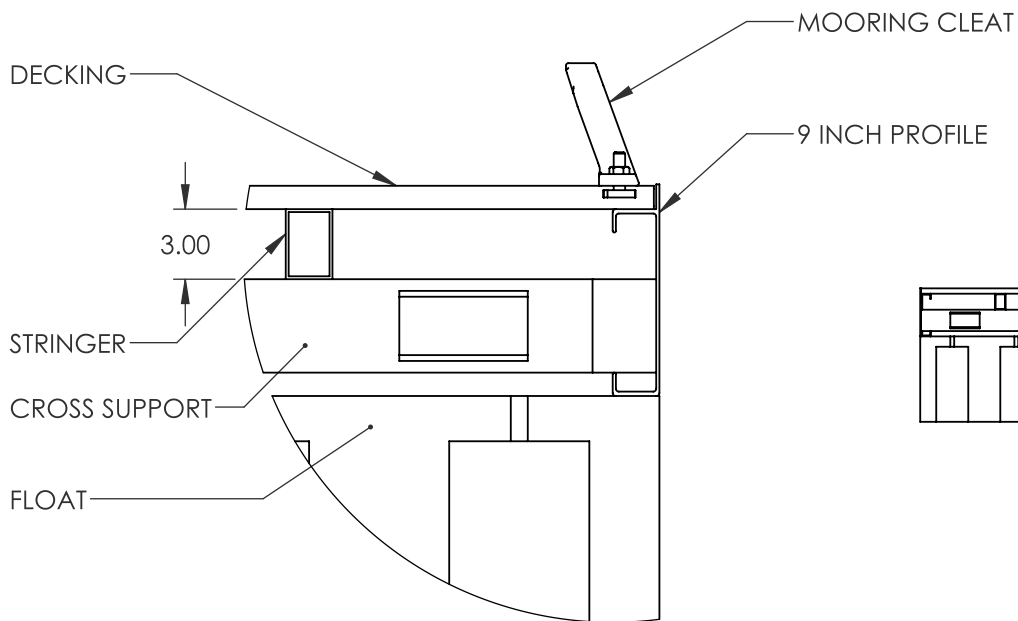
**HARBOR COVE**



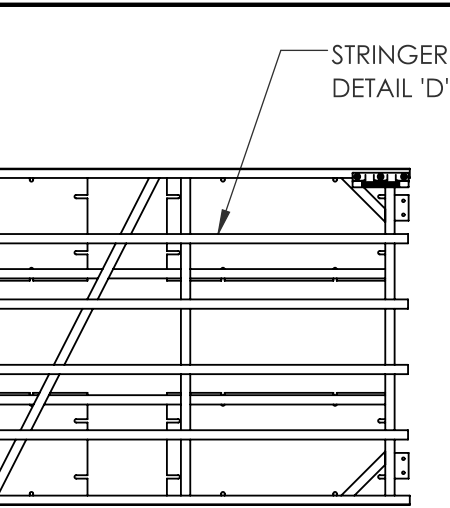
TOP VIEW



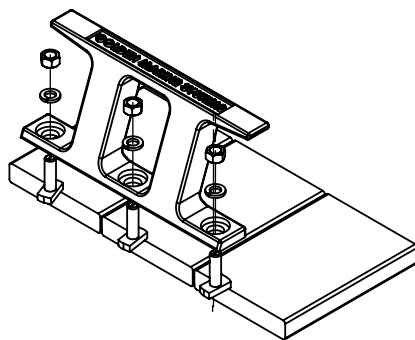
SIDE VIEW



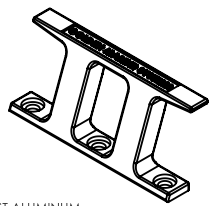
END VIEW



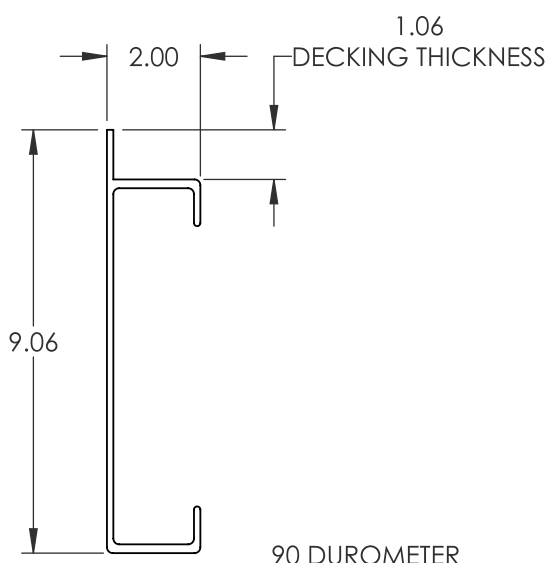
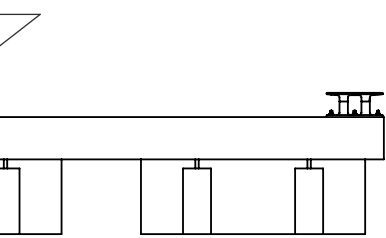
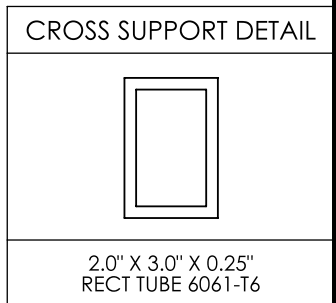
B



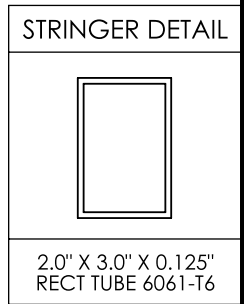
CLEAT ASSEMBLY DETAIL

AVAILABLE CLEATS	
 CAST ALUMINUM	SIZES
	12" GMS
	16" GMS
	18" GMS
	20" GMS
	10" S-CLEAT
12" S-CLEAT	

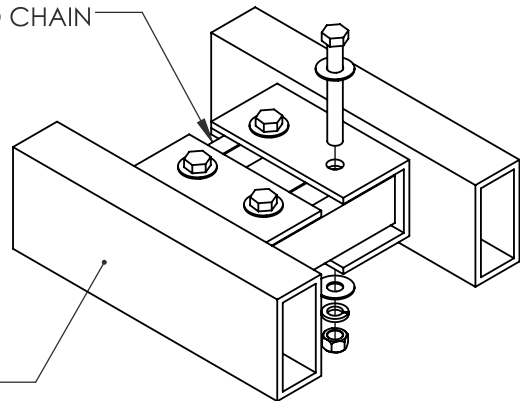
C



D



90 DUROMETER URETHANE BLOCK WITH INTEGRATED CHAIN



CROSS SUPPORT

TYPICAL DOCK-DOCK CONNECTION

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	<b>9" SERIES OVERVIEW</b>	
ENGINEERING SALES OVERVIEW	DATE 4/12/19	SHEET 1 OF 1



# ACCESSORIES

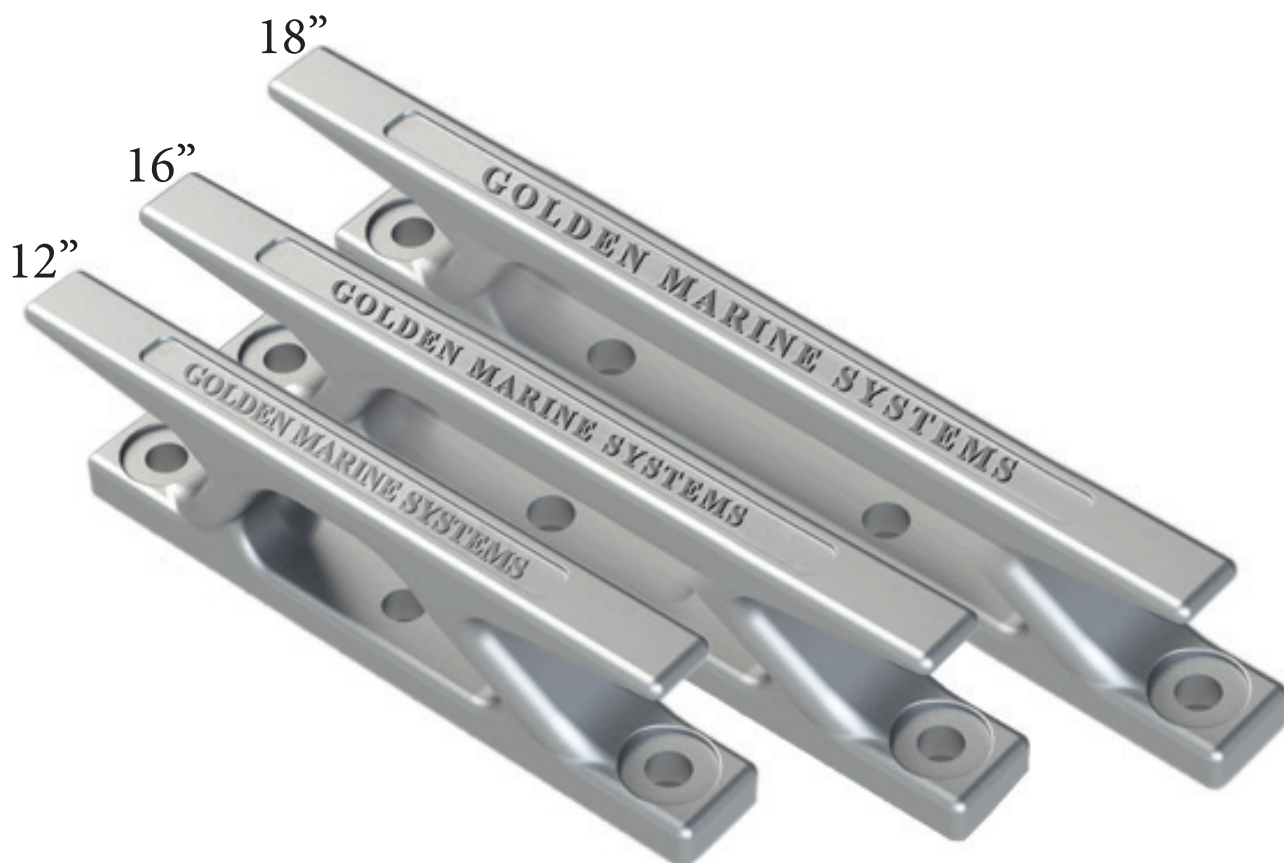
# GANGWAYS

- ADA Compliant Hand Rails
- Various Decking Options
- Angle Hinged Attachment
- Transition Plate
- Equipped with Nylatron Rollers
- Optional Wear Plates



# CLEAT OPTIONS

- For Residential to Mega Yacht Marinas
- Cleats can be easily moved or replaced without the need to remove boards or thru-bolts.
- Golden has a range of cleat sizes for small boats to mega yachts. These sizes are 12 inches, 16 inches and 18 inches.
- Cleats in large quantities can be personalize with company or marina name
- Our cleats are adjustable with our concrete floration system, 850 Serues and 950 series
- Cleats can easily be removed or replaced without the need to remove boards or thru-bolts





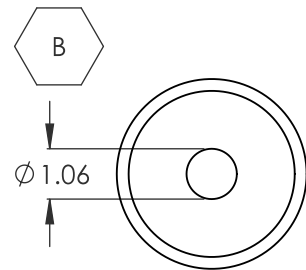
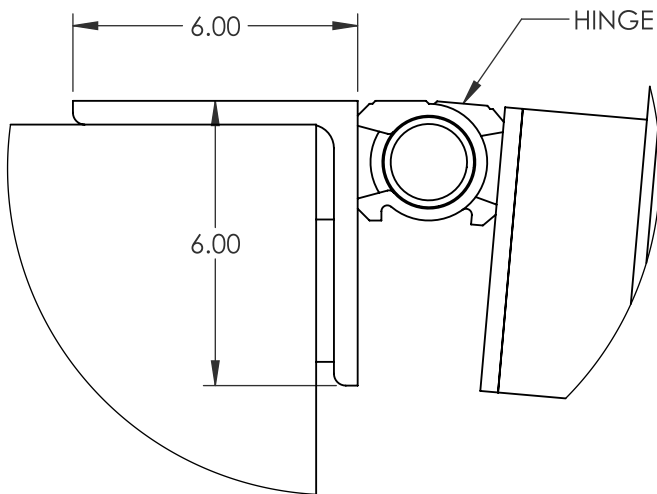
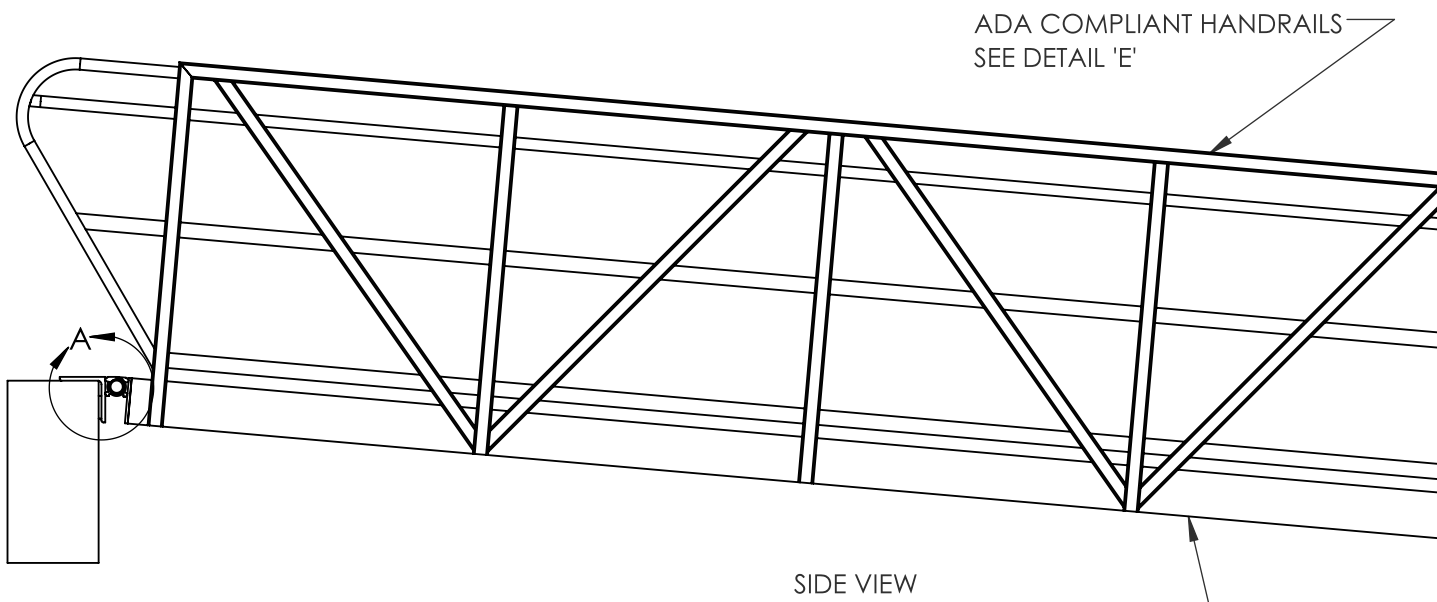
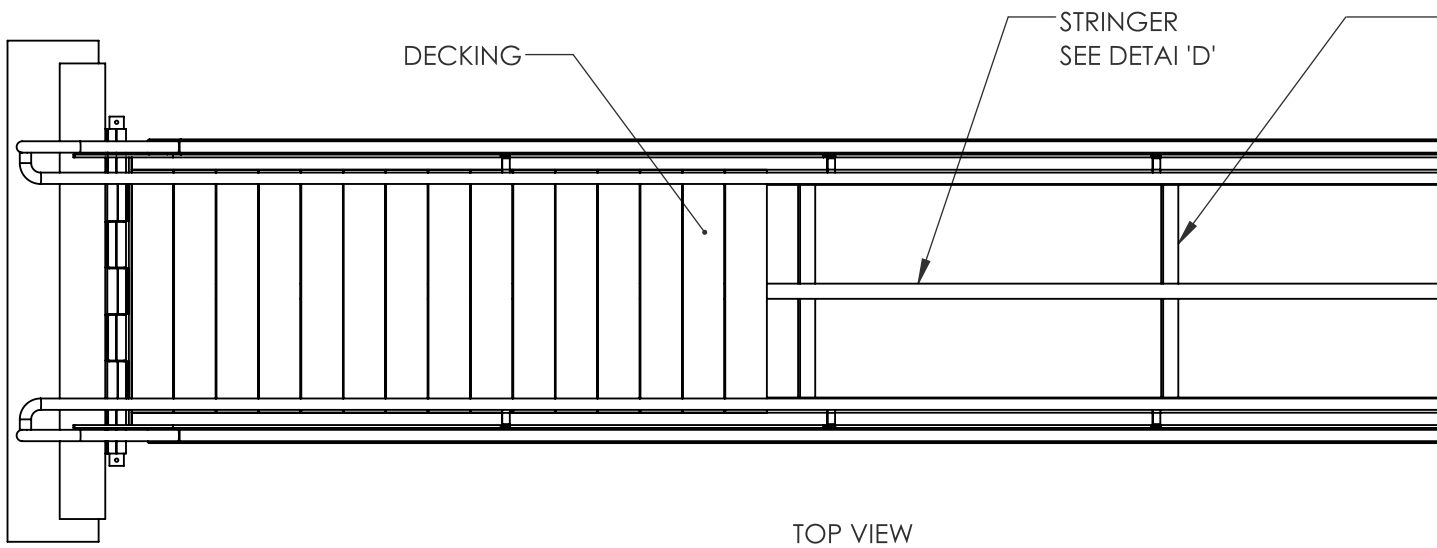
# DOCK STABILIZERS

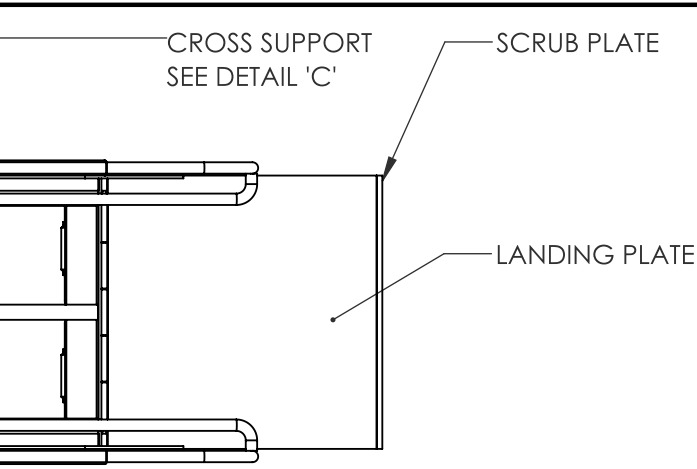
- A multi-level pile guide with rollers spaced at dock level and a calculated distance above dock level depending on the floating dock load requirements. The typical distance above is two feet. The pile diameter is not limited.
- The roller system is also adjustable to assist in leveling the dock. The material utilized is 6061-T6 aluminum, 300 series stainless steel hardware, and HDPE or Nylatron rollers.
- Materials utilized can also be stainless steel or steel or galvanized metals.
- The frame of the dock stabilizer is shrouded by a 6061-T6 aluminum cowling for aesthetics and to prohibit any safety issues.
- The dock stabilizer creates leverage and stiffening property to keep a floating dock stable and level. The Golden Floating Dock Stabilizer can also be utilized for wave attenuation floating docks to assist in stabilization to minimize heaving and wave deflection and further dampen wave action.

## **Summary of uses:**

- Floating Dock Stabilization
- Floating Dock Leveling
- Wave Attenuator Stabilization
- Wave attenuator Leveling







D

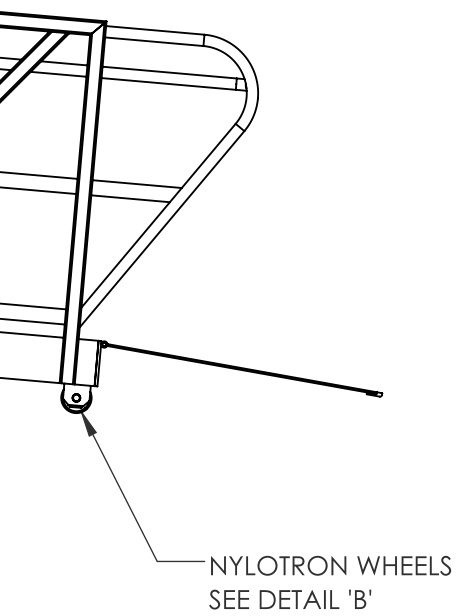
STRINGER DETAIL
2.00" X 2.00" X 0.125" RECT TUBE 6061-T6

C

CROSS SUPPORT DETAIL
2.00" X 3.00" X 0.25" RECT TUBE 6061-T6

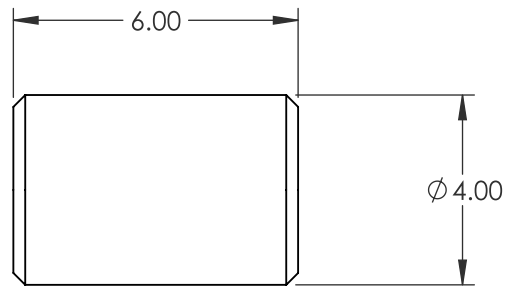
E

ADA HANDRAIL DETAILS	
1.50" X .125" (1.250 ID) ROUND TUBE 6063-T5	2.00" X 2.00" X 0.25" RECT TUBE W/ RADIUS 6063-T52



F

FRAME DETAIL
2.00" X 6.00" X 0.25" RECT TUBE 6061-T6



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	<b>GANGWAY OVERVIEW</b>	
ENGINEERING SALES OVERVIEW	DATE <b>4/3/19</b>	SHEET <b>1 OF 1</b>



ISO 9001:2015 Certified and CE Approved Manufacturer

17611 East Street, North Fort Myers, FL 33917

Tel: 239. 337. 4141 | Fax: 239.337.4482 | Toll Free: 888.909.5438

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