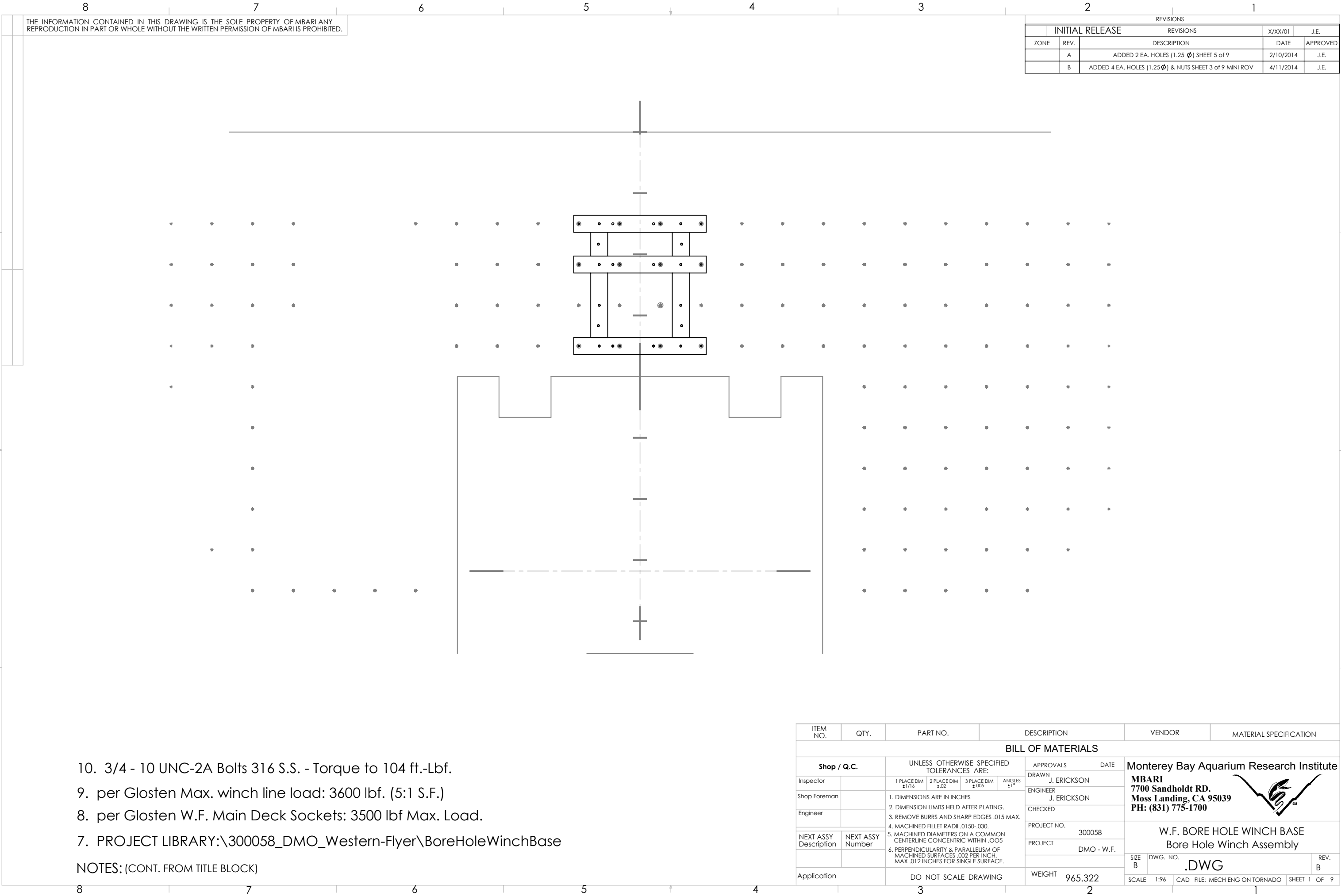
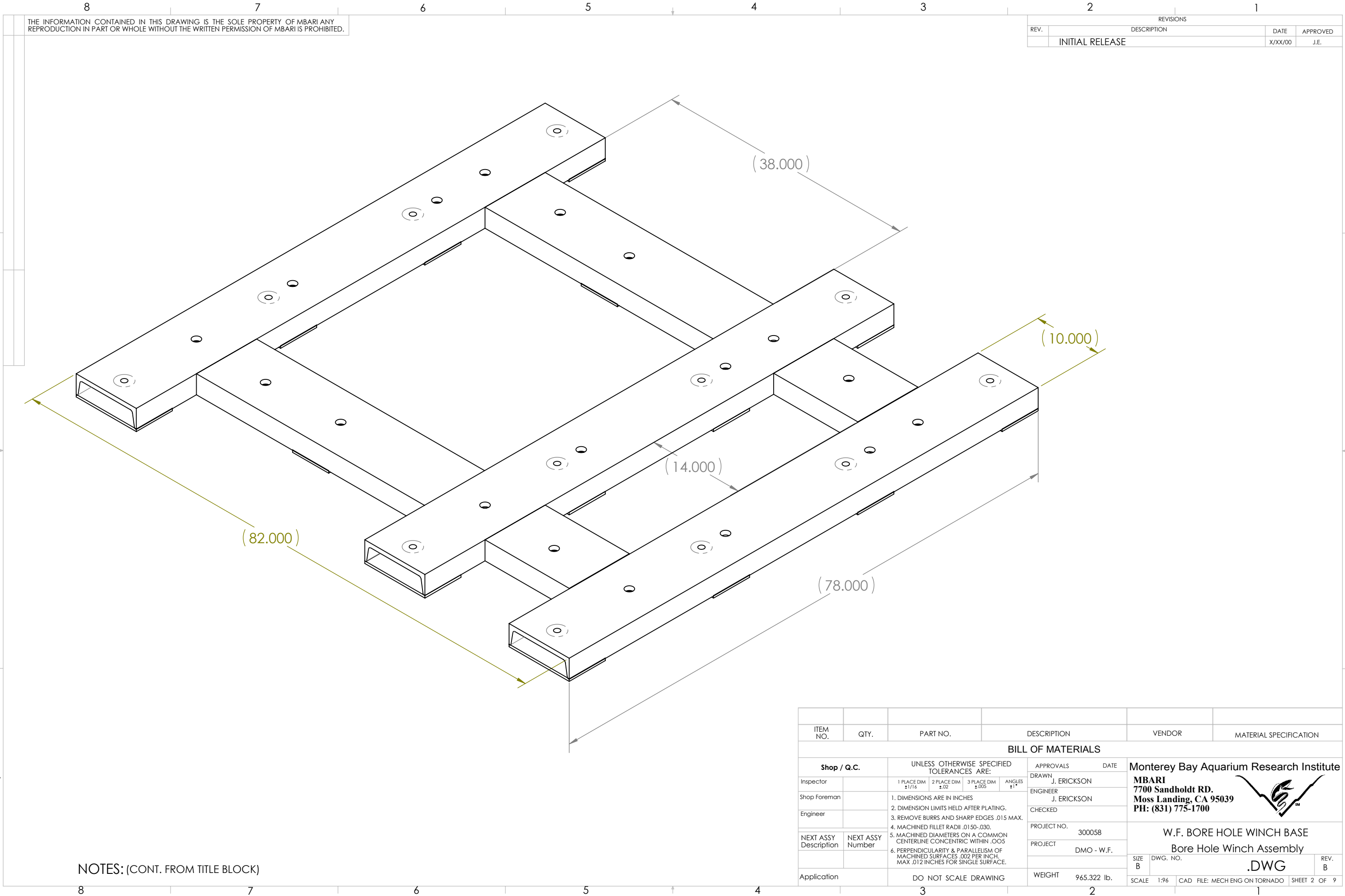






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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

NOTES: (CONT. FROM TITLE BLOCK)

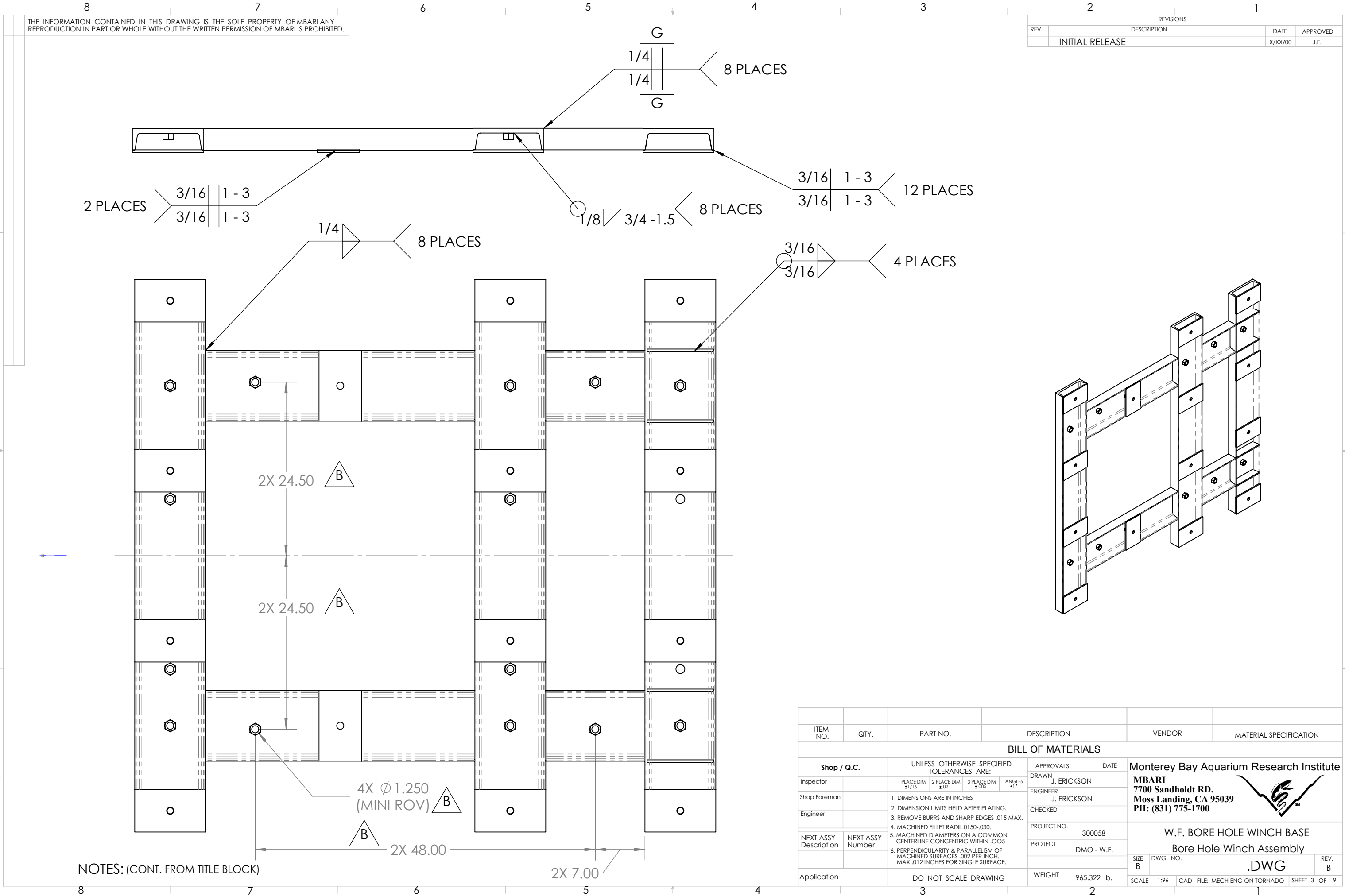
ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	DRAWN J. ERICKSON	
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER J. ERICKSON	
Engineer		1. DIMENSIONS ARE IN INCHES		CHECKED	
NEXT ASSY Description	NEXT ASSY Number	2. DIMENSION LIMITS HELD AFTER PLATING.		PROJECT NO.	300058
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT	DMO - W.F.
		4. MACHINED FILLET RADII .0150-.030.		WEIGHT	965.322 lb.
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SCALE	1:96
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		CAD FILE:	MECH ENG ON TORNADO
Application		DO NOT SCALE DRAWING		SHEET	2 OF 9

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



W.F. BORE HOLE WINCH BASE
Bore Hole Winch Assembly

.DWG



8

7

6

5

4

3

2

1

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

NOTES: (CONT. FROM TITLE BLOCK)

6	16		18-8 Stainless Steel		McMASTER-CARR	304 S.S.
5	2		10 x 30 CHANNEL - PART 3			A36 STEEL
4	3		10 x 36 ChHANNEL - PART 4			A36 STEEL
3	2		10 x 30 ChHANNEL - PART 5			A36 STEEL
2	4		Channel Gusset			A36 STEEL PLATE
1	14		Winch Frame Foot Plate			A36 STEEL
ITEM NO.	QTY.	Part_Number	DESCRIPTION	Revision	Vendor	MATERIAL

Shop / Q.C.

Inspector

Shop Foreman

Engineer

NEXT ASSY Description

NEXT ASSY Number

Application

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

1 PLACE DIM ±1/16

2 PLACE DIM ±.02

3 PLACE DIM ±.005

ANGLES ±1°

1. DIMENSIONS ARE IN INCHES

2. DIMENSION LIMITS HELD AFTER PLATING.

3. REMOVE BURRS AND SHARP EDGES .015 MAX.

4. MACHINED FILLET RADII .0150-.030.

5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005

6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.

DO NOT SCALE DRAWING

APPROVALS

DATE

DRAWN J. ERICKSON

ENGINEER J. ERICKSON

CHECKED

PROJECT NO. 300058

PROJECT DMO - W.F.

WEIGHT 965.322 lb.

Monterey Bay Aquarium Research Institute

MBARI

7700 Sandholdt RD.

Moss Landing, CA 95039

PH: (831) 775-1700

W.F. BORE HOLE WINCH BASE

Bore Hole Winch Assembly

SIZE B

DWG. NO.

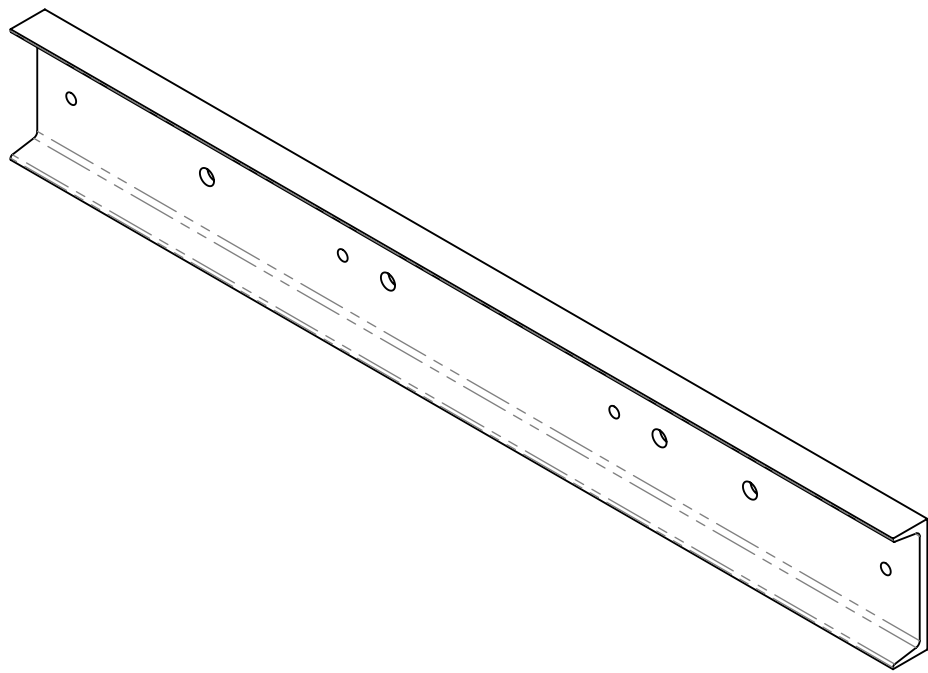
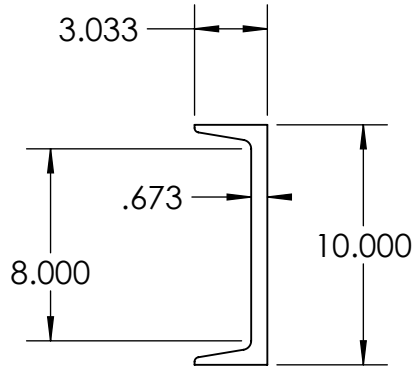
SCALE 1:96

CAD FILE: MECH ENG ON TORNADO

SHEET 4 OF 9

REV. B

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



NOTES: (CONT. FROM TITLE BLOCK)

1	1	10 x 36 ChCHANNEL - PART 4				A36 STEEL
ITEM NO.	QTY.	Part Number	DESCRIPTION		Vendor	MATERIAL

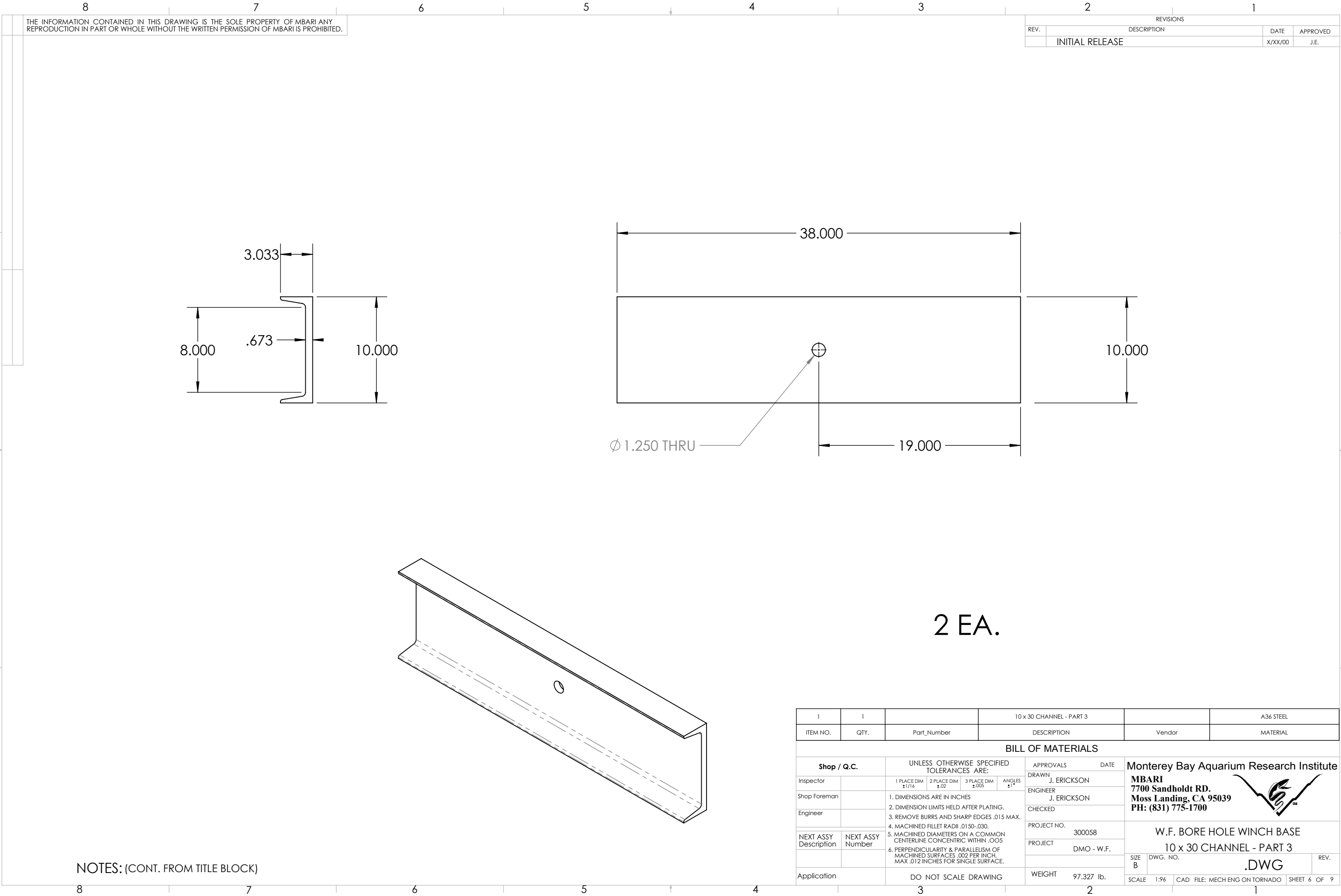
BILL OF MATERIALS						
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN J. ERICKSON
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER J. ERICKSON
Engineer						CHECKED
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.
		PROJECT	DMO - W.F.	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
Application		DO NOT SCALE DRAWING		WEIGHT 198.862 lb.		W.F. BORE HOLE WINCH BASE 10 x 36 ChCHANNEL - PART 4
				SIZE B	DWG. NO.	REV. A
				SCALE 1:96	CAD FILE: MECH ENG ON TORNADO	SHEET 5 OF 9

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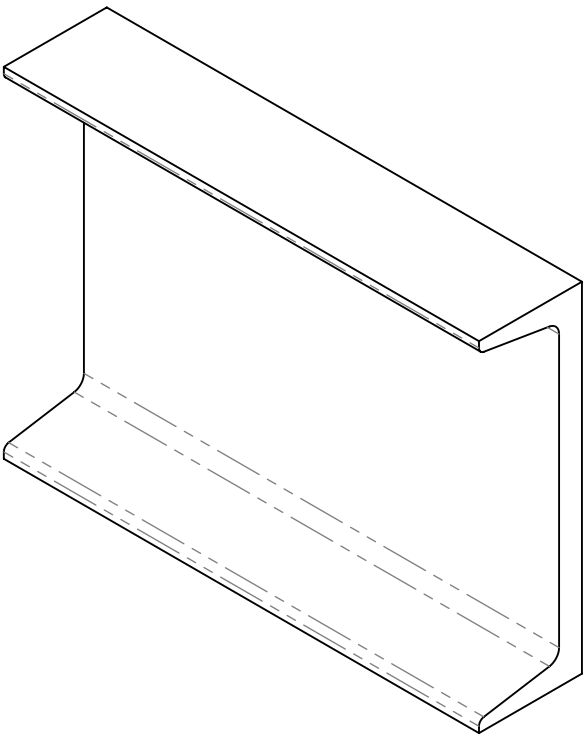
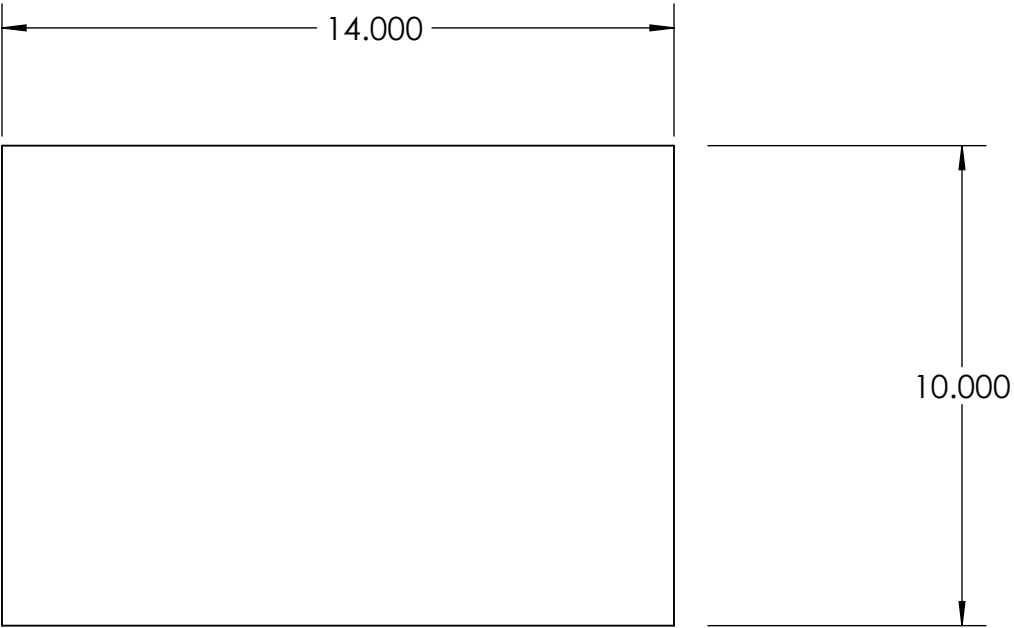
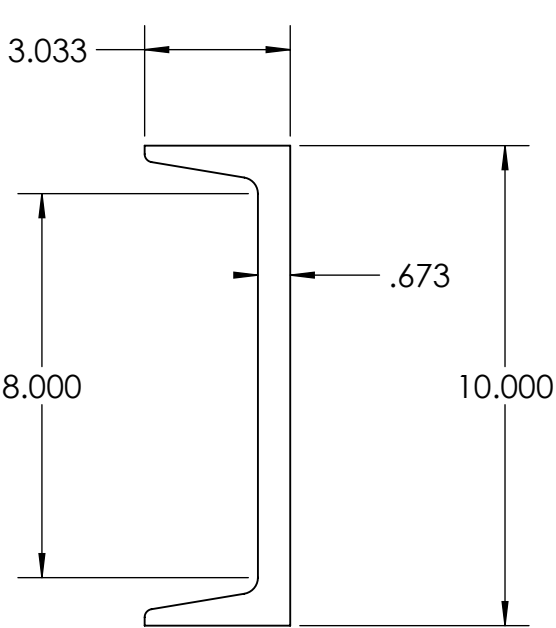
W.F. BORE HOLE WINCH BASE
10 x 36 ChANNEL - PART 4

.DWG



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2 EA.

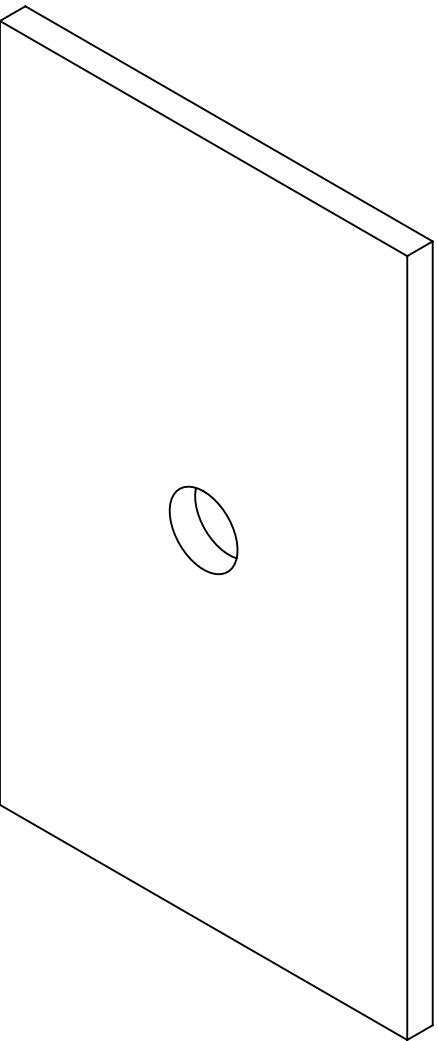
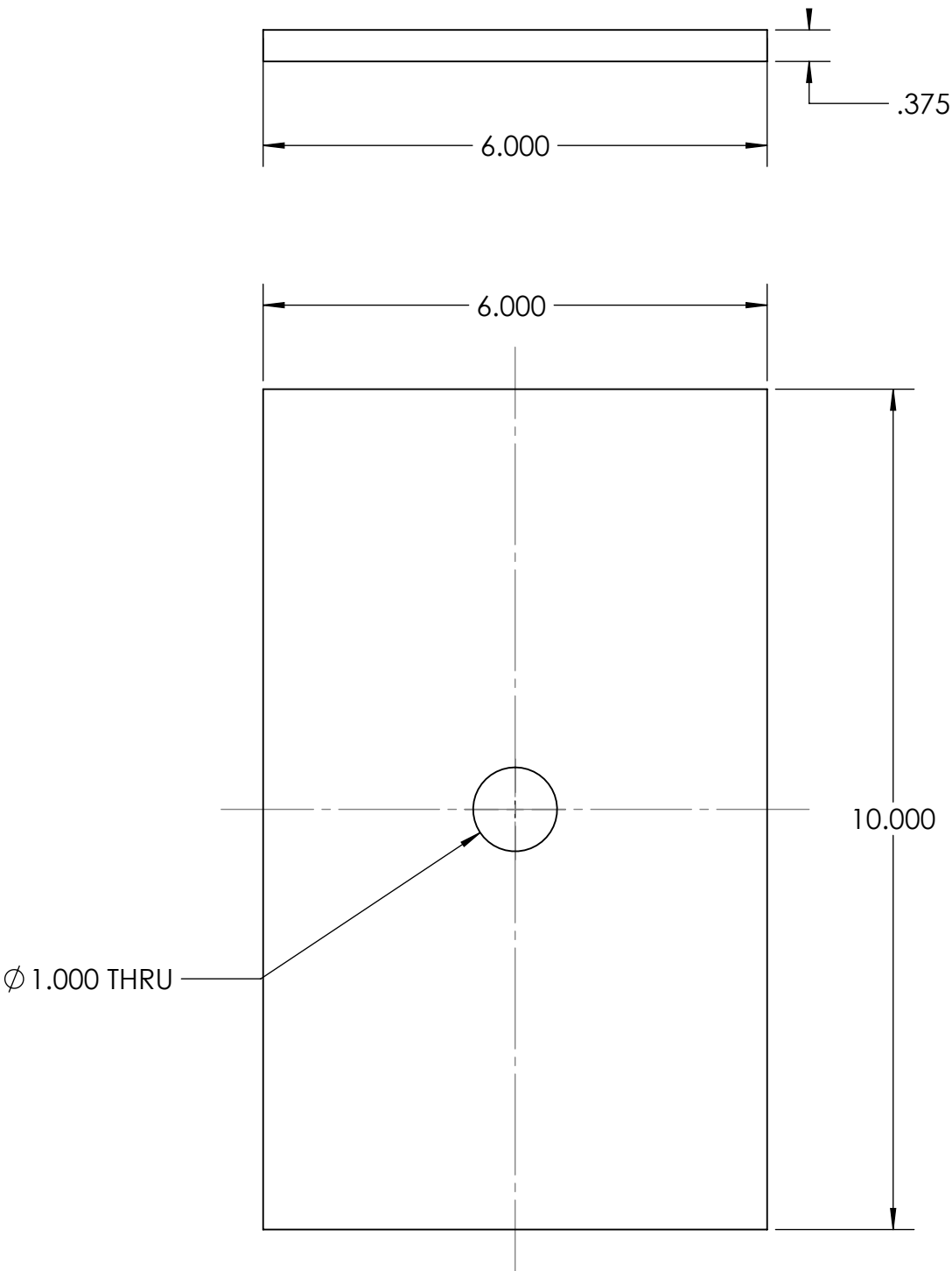
1	1	10 x 30 ChCHANNEL - PART 5			A36 STEEL	
ITEM NO.	QTY.	Part Number	DESCRIPTION		Vendor	MATERIAL

BILL OF MATERIALS							
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN J. ERICKSON	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER J. ERICKSON	
Engineer						CHECKED	
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 300058	
		PROJECT DMO - W.F.		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700  W.F. BORE HOLE WINCH BASE 10 x 30 ChCHANNEL - PART 5 SIZE B DWG. NO. .DWG REV. SCALE 1:96 CAD FILE: MECH ENG ON TORNADO SHEET 7 OF 9			
Application		DO NOT SCALE DRAWING					WEIGHT 36.478 lb.

NOTES: (CONT. FROM TITLE BLOCK)

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
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14 EA.

1	1	Winch Frame Foot Plate				A36 STEEL	
ITEM NO.	QTY.	Part Number	DESCRIPTION			Vendor	MATERIAL

BILL OF MATERIALS							
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS _____ DATE _____		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN J. ERICKSON	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER J. ERICKSON	
Engineer						CHECKED	
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 300058	
						PROJECT DMO - W.F.	
						SIZE B	DWG. NO.
Application		DO NOT SCALE DRAWING			WEIGHT 6.297 lb.	.DWG	
					SCALE 1:96	CAD FILE: MECH ENG ON TORNADO	REV. SHEET 8 OF 9

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W.F. BORE HOLE WINCH BASE

Winch Frame Foot Plate

