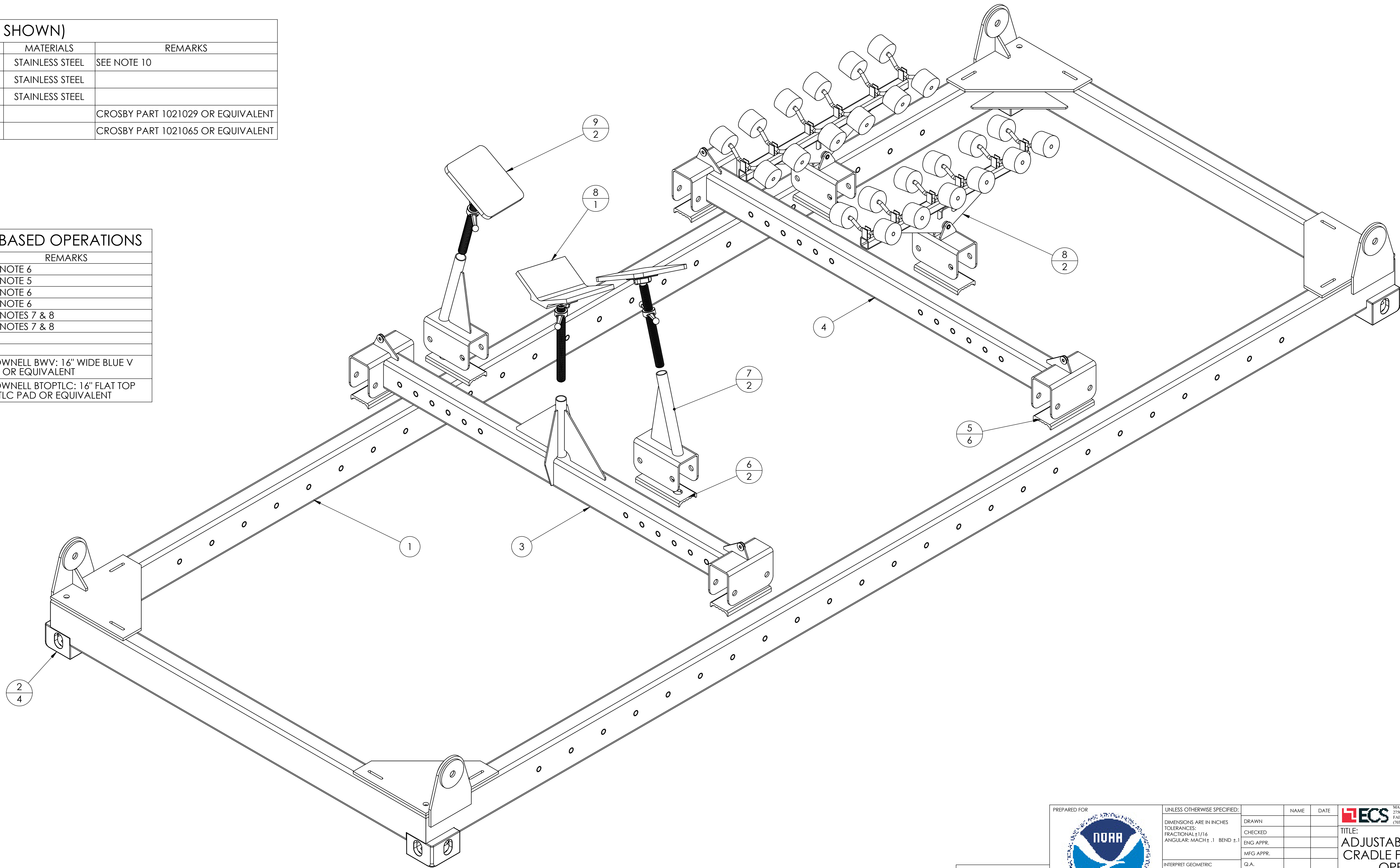


- GENERAL NOTES
- THIS DRAWING IS IN SUPPORT OF STATEMENT OF WORK NM-AN2120-21-00660, FABRICATED PARTS TO BE PROTECTED ACCORDING TO COVERING SCHEDULE SPECIFIED THEREIN
 - ALL WELDING SHALL BE IN ACCORDANCE WITH ABS RULES FOR BUILDING AND CLASSING STEEL VESSELS
 - ALL WELDS TO BE CONTINUOUSLY WRAPPED IN WAY OF SNIPES AND PLATE EDGES
 - ALL STEEL SNIPES TO BE 1/2" X 1/2" UNLESS OTHERWISE NOTED
 - WHEN ASSEMBLED, ISO 1161 COMPLIANT CORNER CASTINGS SHALL BE POSITIONED ACCORDING TO ISO 668
 - WHEN ASSEMBLED, THE CRADLE FRAME AND TRUSS MEMBERS SHALL BE COMPLETELY SEALED AGAINST WATER INTRUSION
 - PLASTIC COUPLER INSERT SHALL BE MADE OF UHMW PLASTIC, EXPOSED SURFACES TO HAVE A SLIPPERY FINISH
 - PLASTIC COUPLER INSERT SHALL BE INSTALLED PRIOR TO PAINTING USING PERMABOND TA4810 OR EQUIVALENT
 - SHEETS 7 & 8 OF THIS DRAWING ARE FOR REFERENCE ONLY
 - ALL STAINLESS STEEL BOLTS SHALL BE OF SUFFICIENT LENGTH FOR 1-5 THREADS TO SHOW WHEN FULLY SEATED

HARDWARE (NOT SHOWN)					
QTY	TYPE	SIZE	DESCRIPTION	MATERIALS	REMARKS
16	BOLT	5/8"-11 UNC	PARTIALLY THREADED	STAINLESS STEEL	SEE NOTE 10
32	WASHER	5/8"	FLAT, WIDE	STAINLESS STEEL	
16	WASHER	5/8"	LOCK, SPLIT	STAINLESS STEEL	
4	SHACKLE	1/2"	ASME B30.26		CROSBY PART 1021029 OR EQUIVALENT
4	SHACKLE	1"	ASME B30.26		CROSBY PART 1021065 OR EQUIVALENT

ADJUSTABLE SMALL BOAT CRADLE FOR SHIP-BASED OPERATIONS				
ITEM	QTY	DESCRIPTION	DETAIL SHEET	REMARKS
1	1	CRADLE FRAME W/ LIFTING PADEYES	SHEET 5	SEE NOTE 6
2	4	1161 ISO CORNER CASTING		SEE NOTE 5
3	1	FORWARD CRADLE TRUSS	SHEET 2	SEE NOTE 6
4	1	AFT CRADLE TRUSS	SHEET 3	SEE NOTE 6
5	6	PLASTIC COUPLER INSERT	SHEET 4	SEE NOTES 7 & 8
6	2	MODIFIED PLASTIC COUPLER INSERT	SHEET 4	SEE NOTES 7 & 8
7	2	FORWARD TRUSS ADJUSTMENT CAR	SHEET 4	
8	2	WOBBLE ROLLER SUBASSEMBLY	SHEET 6	
9	1	BOAT STAND TOP, KEEL SUPPORT		BROWNELL BWV: 16" WIDE BLUE V TOP OR EQUIVALENT
10	2	BOAT STAND TOP, HULL SUPPORT		BROWNELL BTOPTLC: 16" FLAT TOP W/ TLC PAD OR EQUIVALENT



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
«INSERT COMPANY NAME HERE». ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
«INSERT COMPANY NAME HERE» IS
PROHIBITED.



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: ±1/16
ANGULAR: MACH ±.1 BEND ±.1
INTERPRET GEOMETRIC
TOLERANCING PER ASME Y14.5
MATERIAL
FINISH
DO NOT SCALE DRAWING

DRAWN	NAME	DATE
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		
DESIGN PENDING ENGINEERING REVIEW		

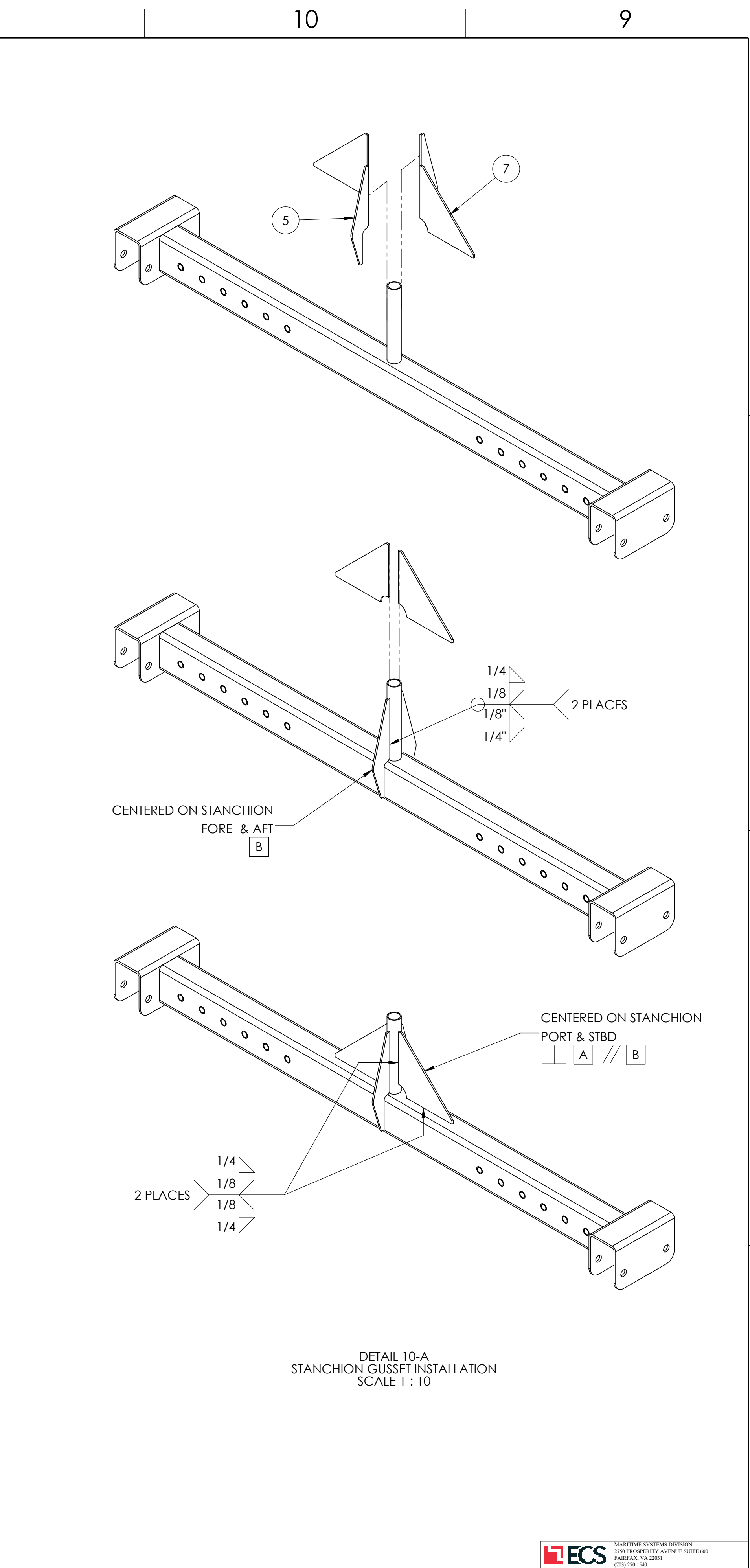
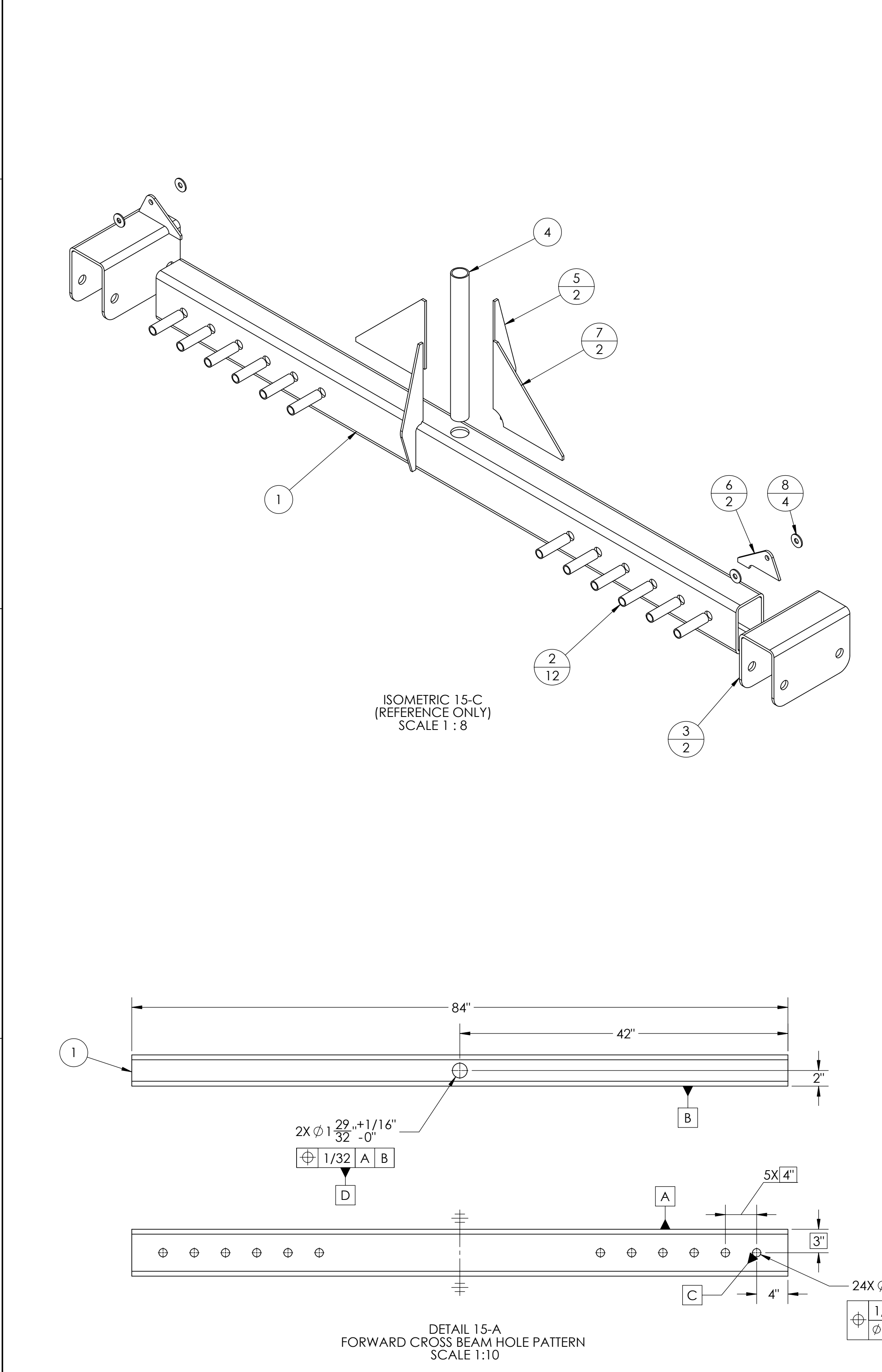
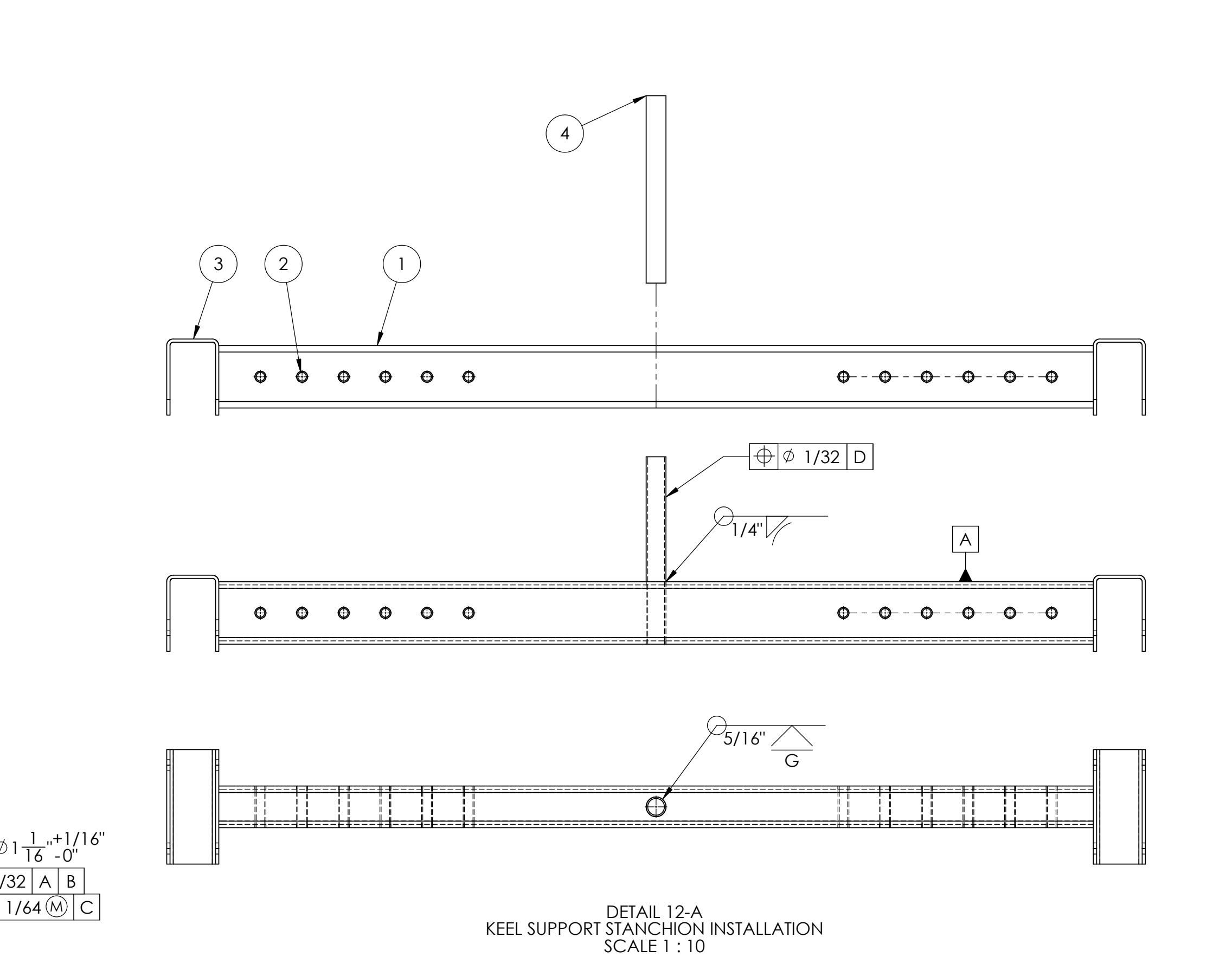
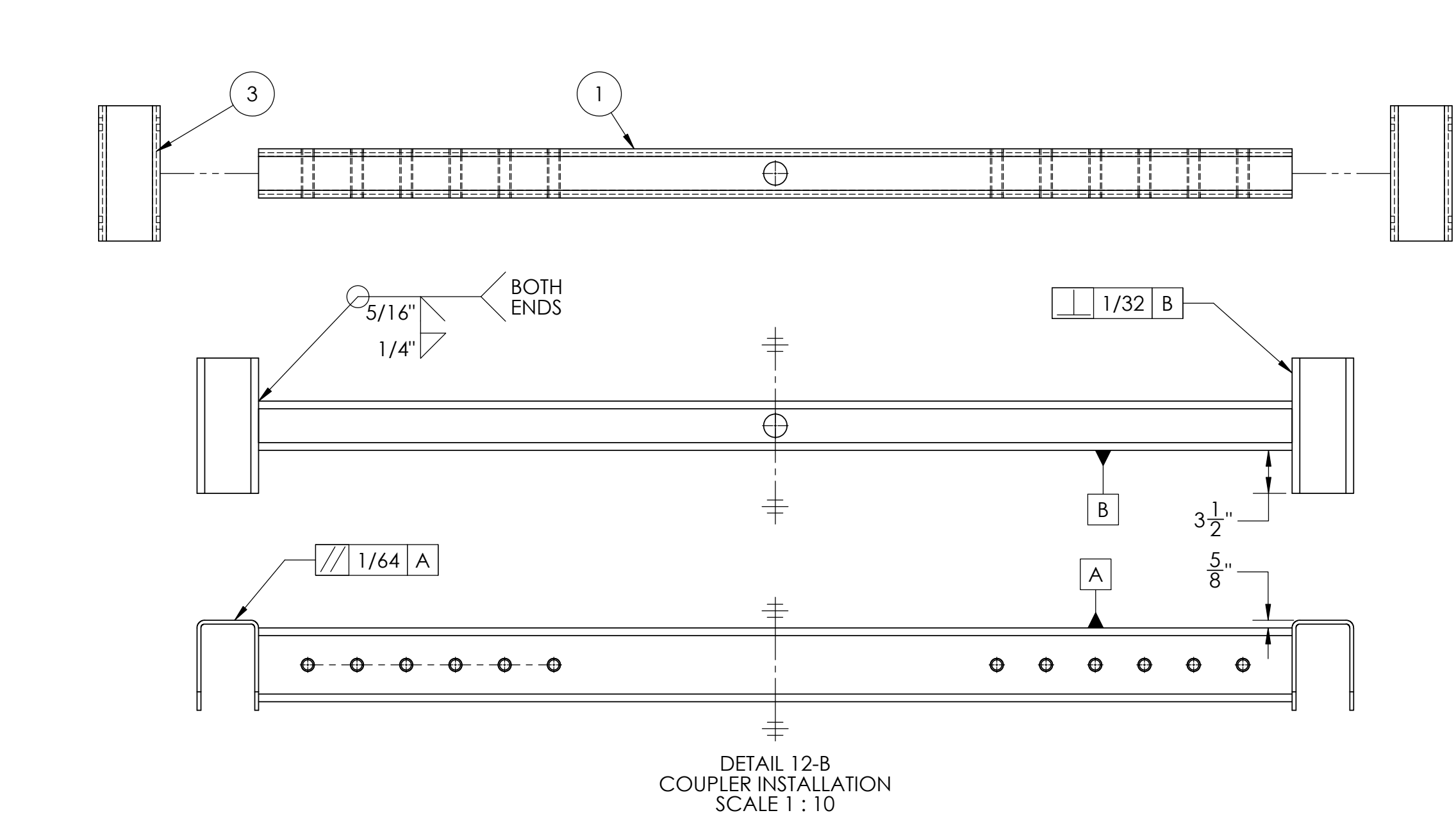
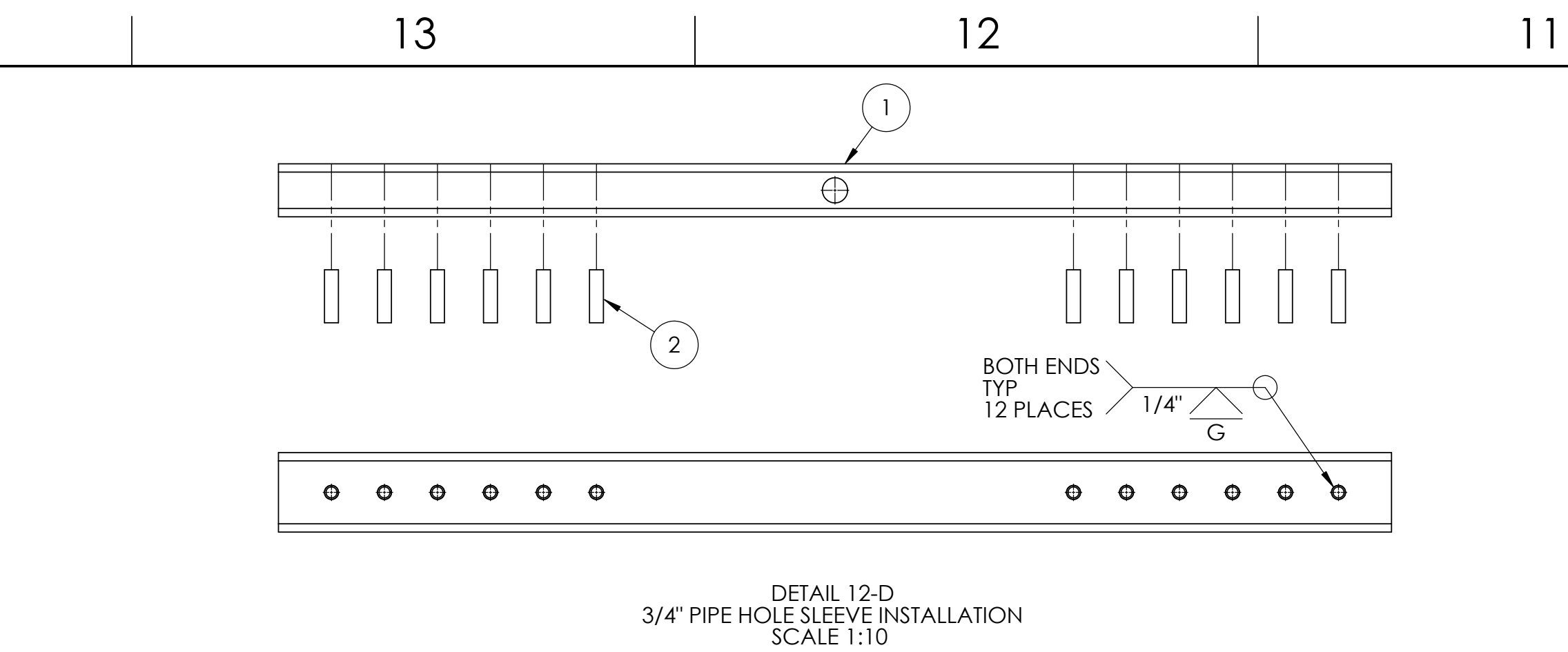
NOAA SYSTEMS DIVISION
2750 PROSPERITY AVENUE SUITE 600
FAIRFAX, VA 22031
703.295.5500

TITLE:
ADJUSTABLE SMALL BOAT
CRADLE FOR SHIP-BASED
OPERATIONS

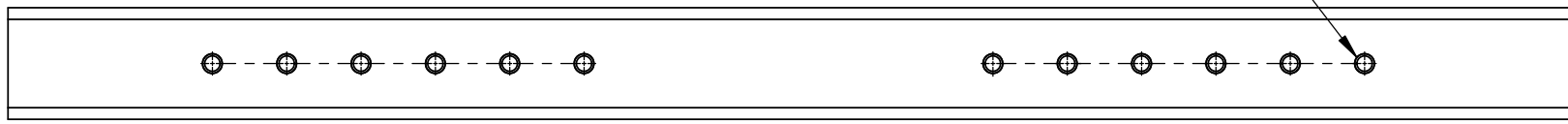
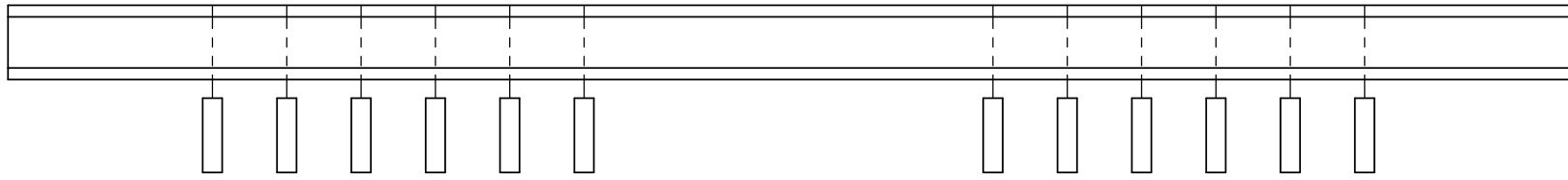
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D SB-583-01 A

SCALE: 1:24 | WEIGHT: SHEET 1 OF 8

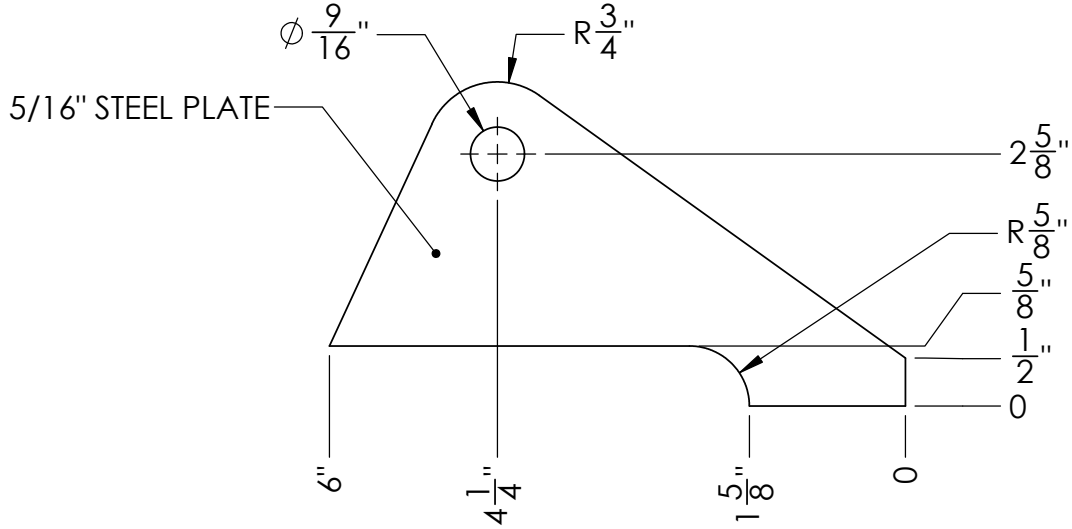
16			15			14		
ITEM NO.	QTY.	DESCRIPTION	MATERIAL SPECIFICATION	LENGTH (INCHES)	WEIGHT (POUNDS)	REMARKS		
1	1	TUBE, RECTANGULAR, STEEL, 4X6X5/16 INCHES	ASTM A500 GRADE B	84	141.11			
2	12	PIPE, STEEL, SCH 40, 3/4 INCH	ASTM A500 GRADE B	4	0.41			
3	2	STEEL, 5/16 INCHES THICK	ASTM A500 GRADE B	11	18.98			
4	1	PIPE, STEEL, SCH 40, 1 1/2 INCH	ASTM A500 GRADE B	18	4.39			
5	2	PLATE, STEEL, 5/16 INCH	ASTM A131 GRADE AH36		1.76			
6	2	PLATE, STEEL, 1/4 INCH	ASTM A131 GRADE AH36		0.69			
7	2	PLATE, STEEL, 5/16 INCH	ASTM A131 GRADE AH36		3.74			
8	4	PLATE, STEEL, 1/4 INCH	ASTM A131 GRADE AH36		0.05			



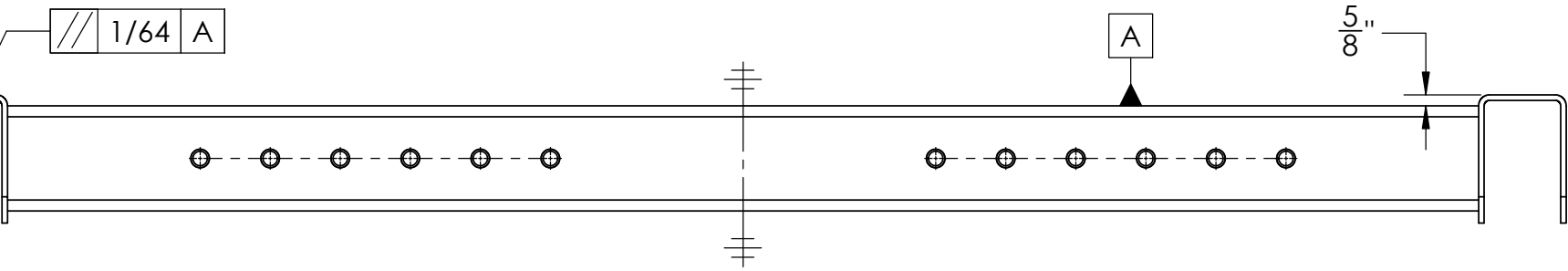
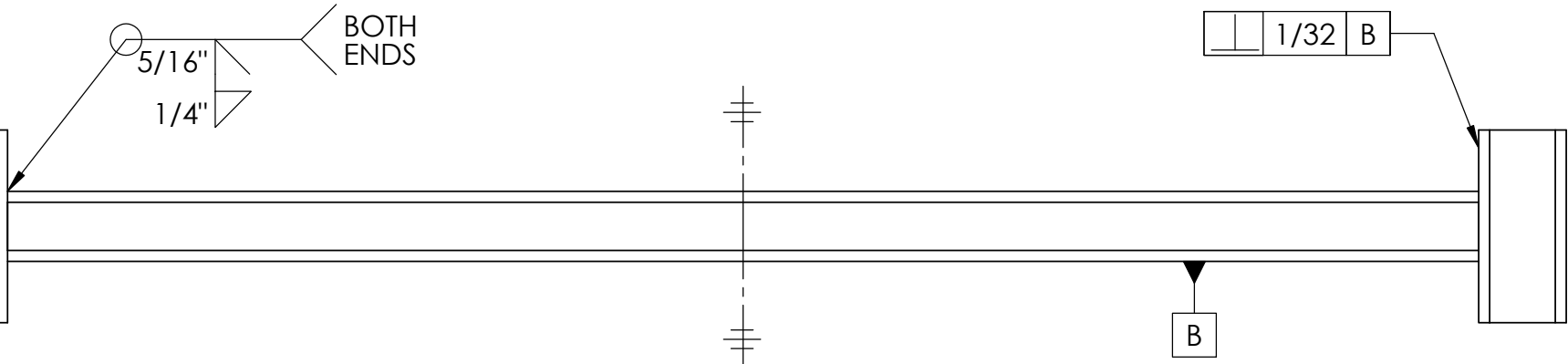
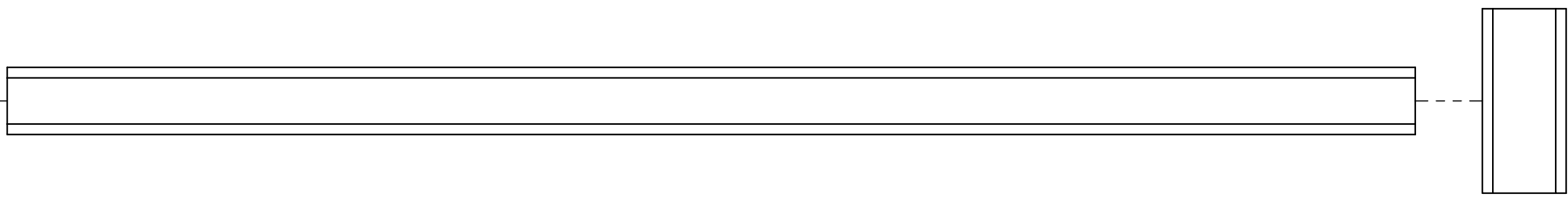
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ITEM NO.	QTY.	DESCRIPTION		MATERIAL SPECIFICATION	LENGTH (INCHES)	WEIGHT (POUNDS)	INSTALLATION DETAIL		REMARKS							
1	1	TUBE, RECTANGULAR, STEEL, 4X6X5/16 INCHES		ASTM A500 GRADE B	84	141.65	23-A									
2	12	PIPE, STEEL, SCH 40, 3/4 INCH		ASTM A500	4	0.41	20-D									
3	2	STEEL, 5/16 INCHES THICK		ASTM A500 GRADE B	11	18.98	20-B									
4	2	PLATE, STEEL, 1/4 INCH		ASTM A131 GRADE AH36		0.69	20-A									
5	4	PLATE, STEEL, 1/4 INCH		ASTM A131 GRADE AH36		0.05	18-B									



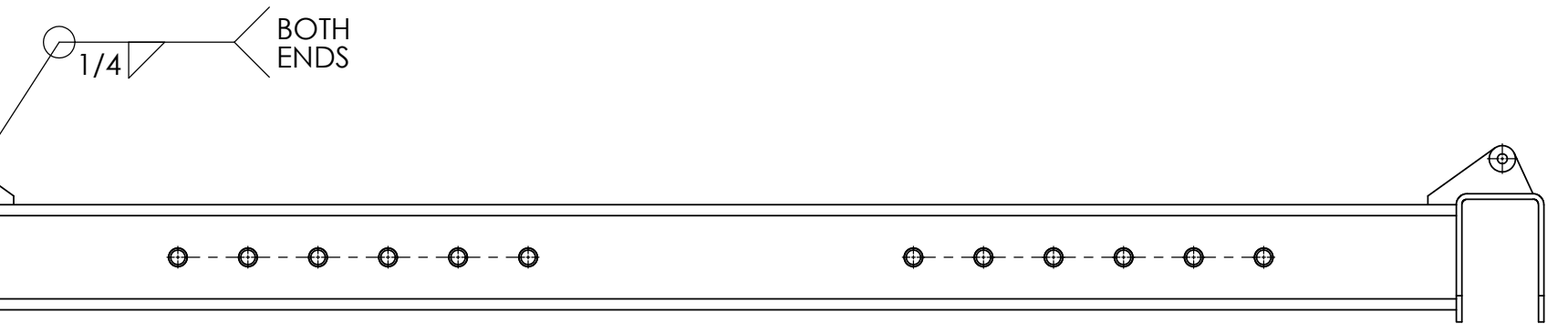
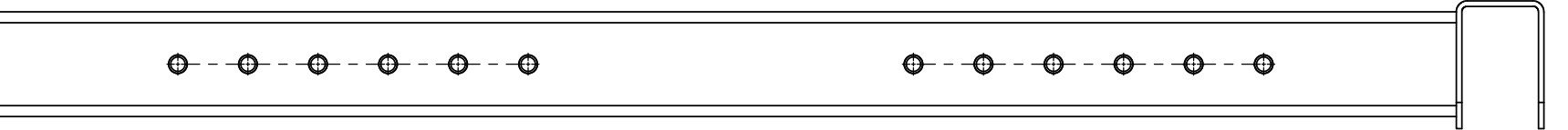
DETAIL 20-D
3/4" PIPE HOLE SLEEVE INSTALLATION
SCALE 1 : 10



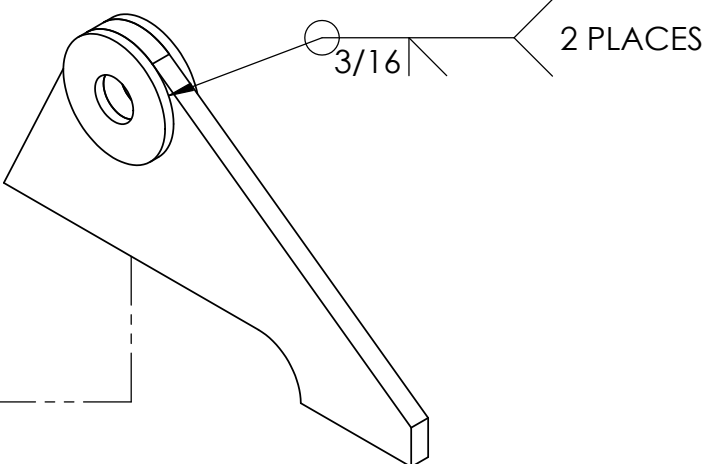
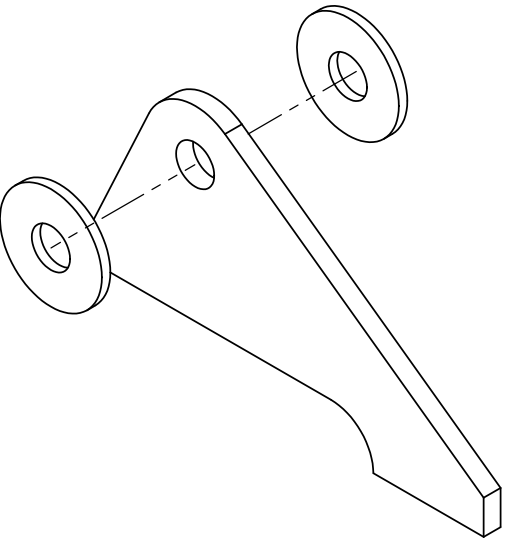
DETAIL 18-D
DIMENSIONED PADEYE DETAIL
SCALE 1 : 2



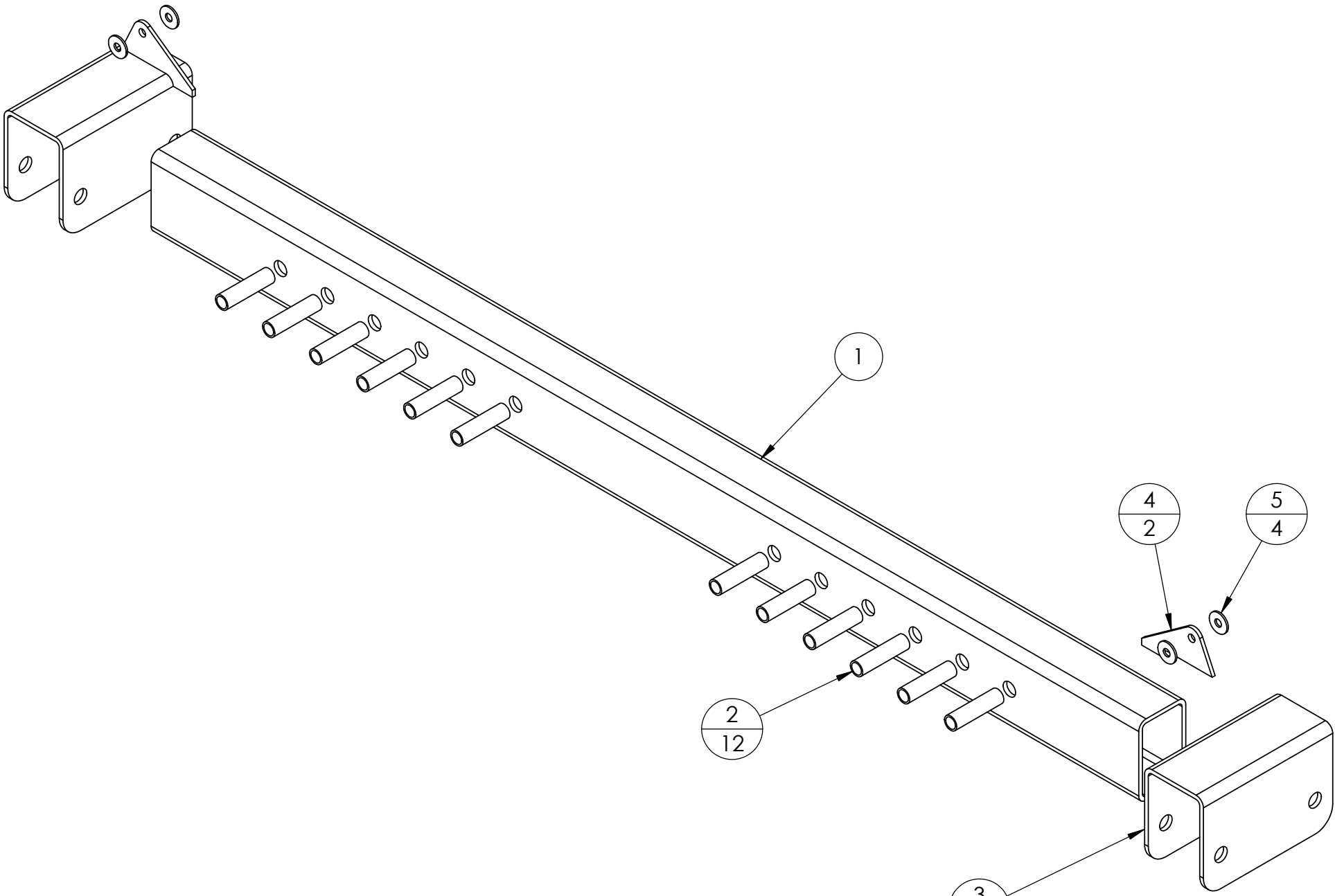
DETAIL 20-B
COUPLER INSTALLATION
SCALE 1 : 10



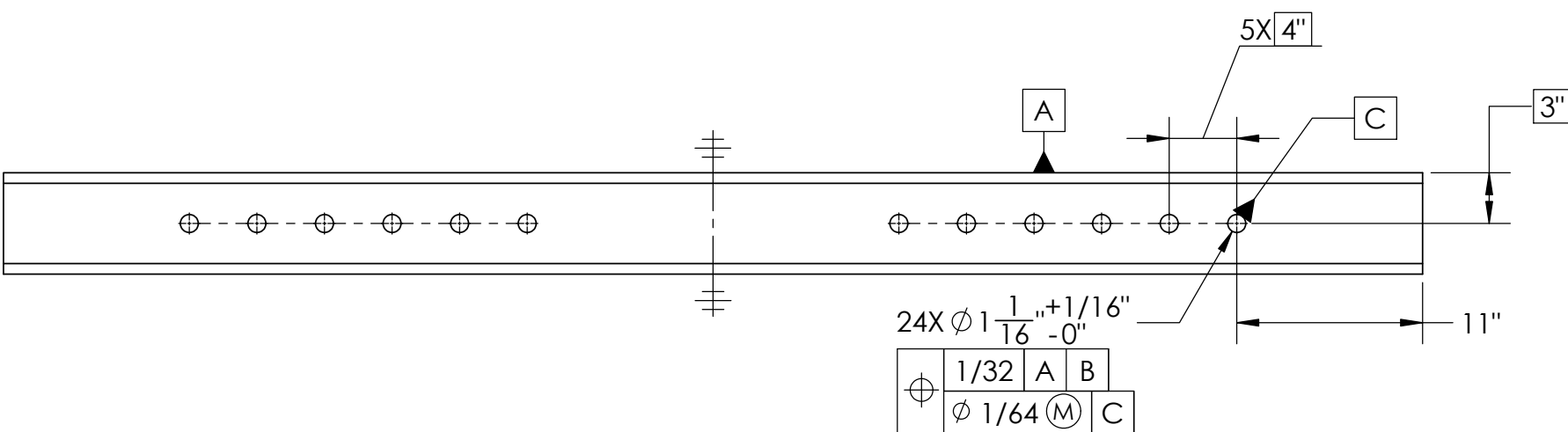
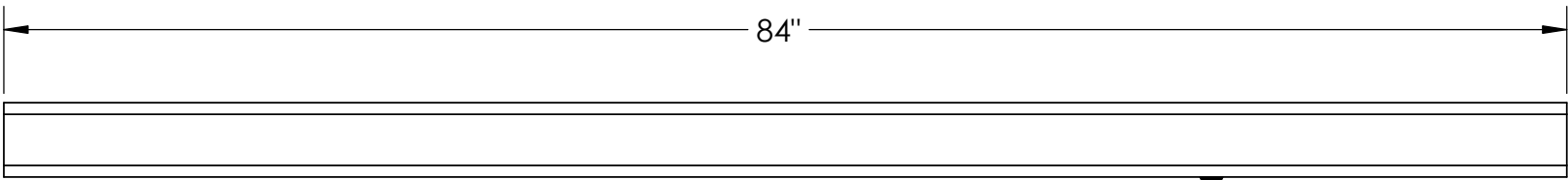
DETAIL 20-A
TIE-DOWN PADEYE INSTALLATION
SCALE 1 : 10



DETAIL 18-B
PADEYE ASSEMBLY DETAILS
SCALE 1 : 2

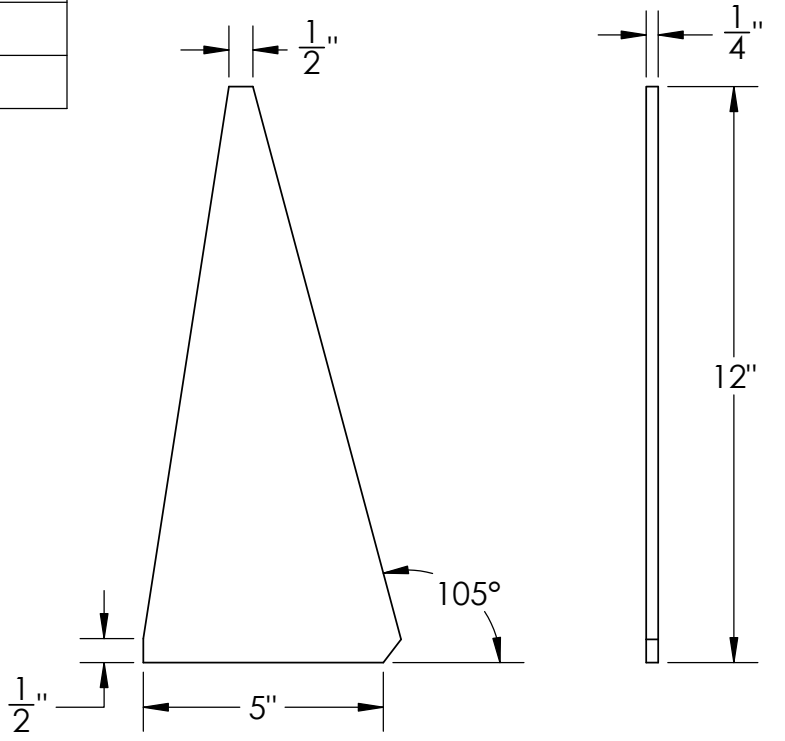
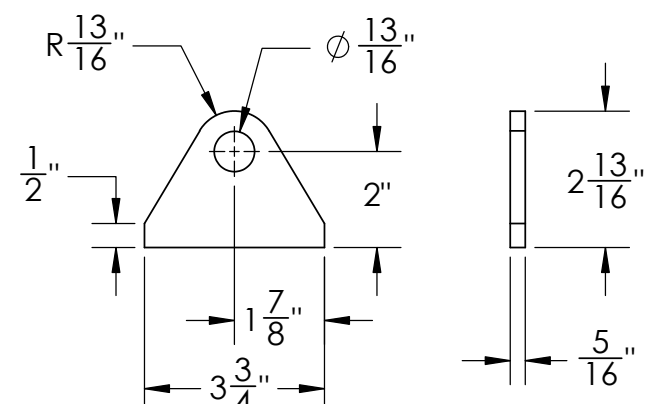


ISOMETRIC 23-C
(REFERENCE ONLY)
SCALE 1 : 8

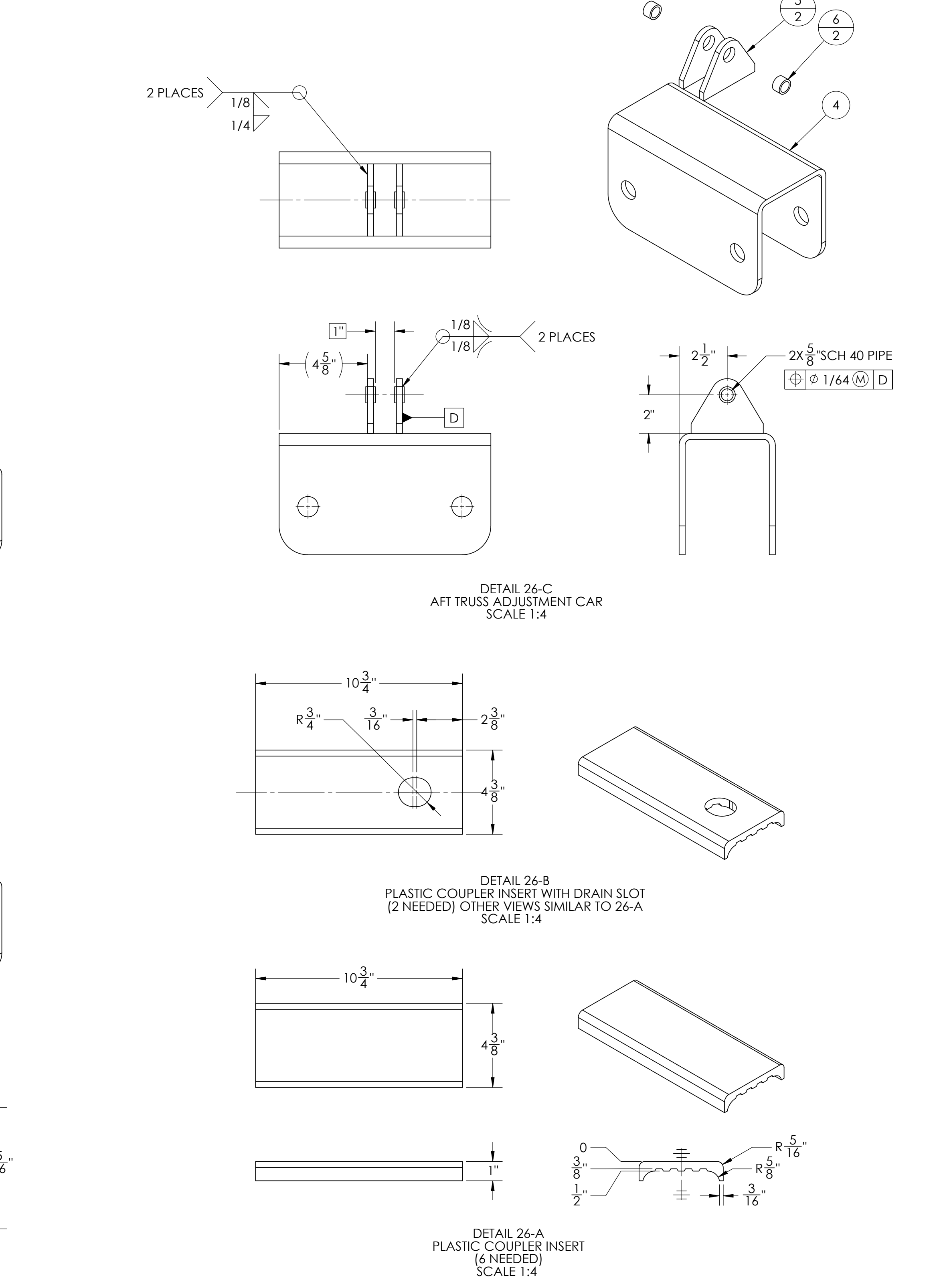
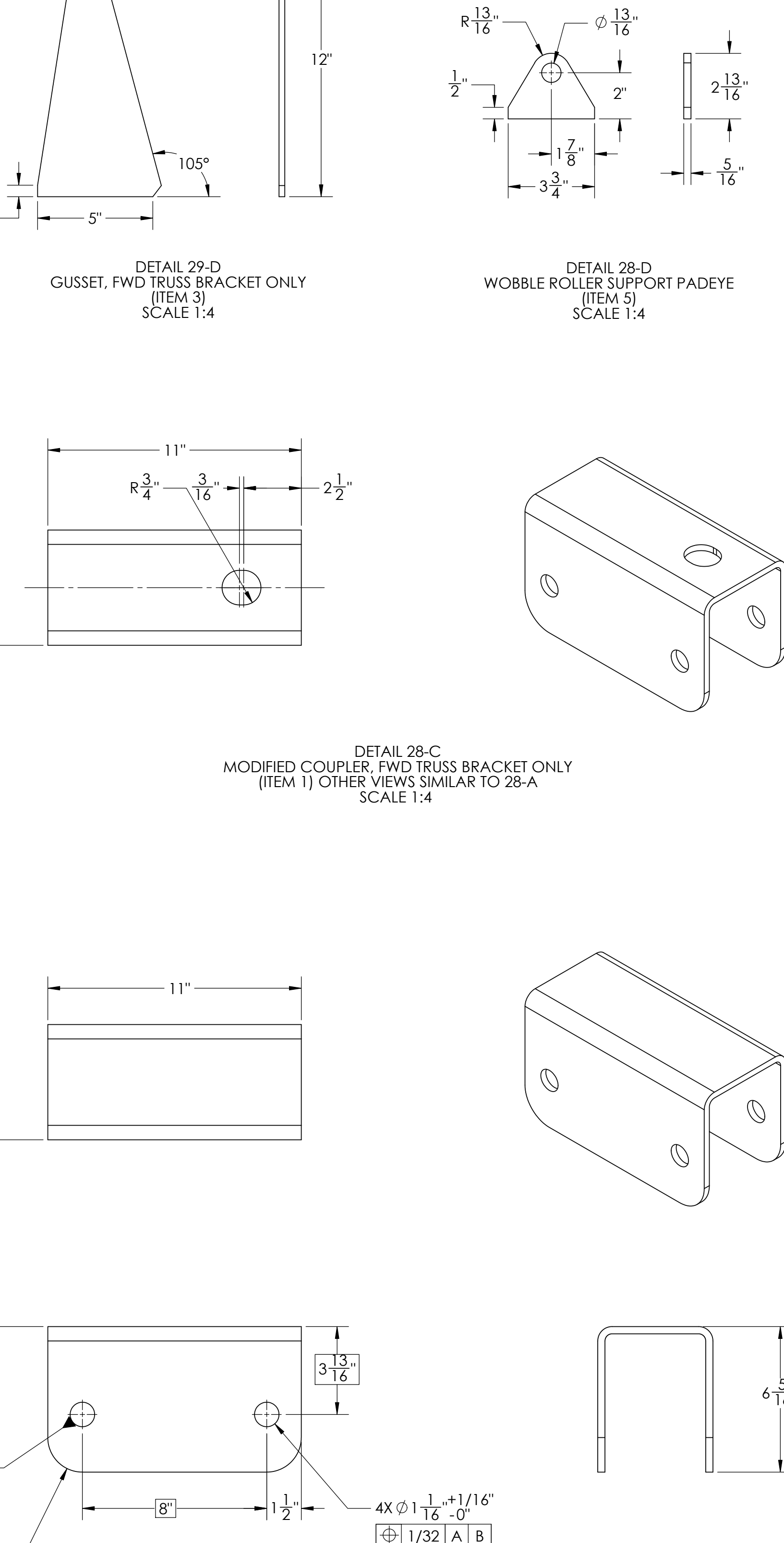
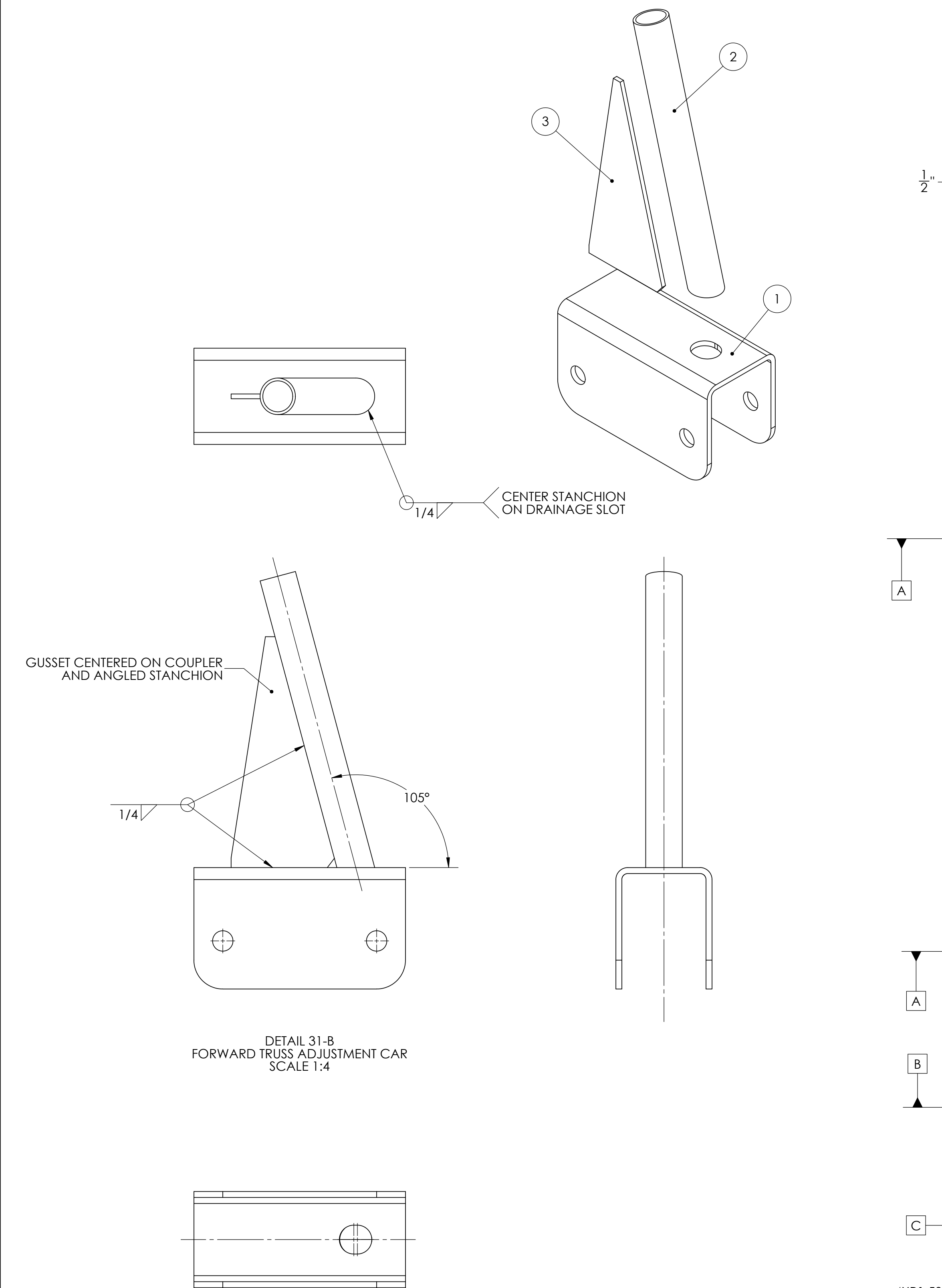


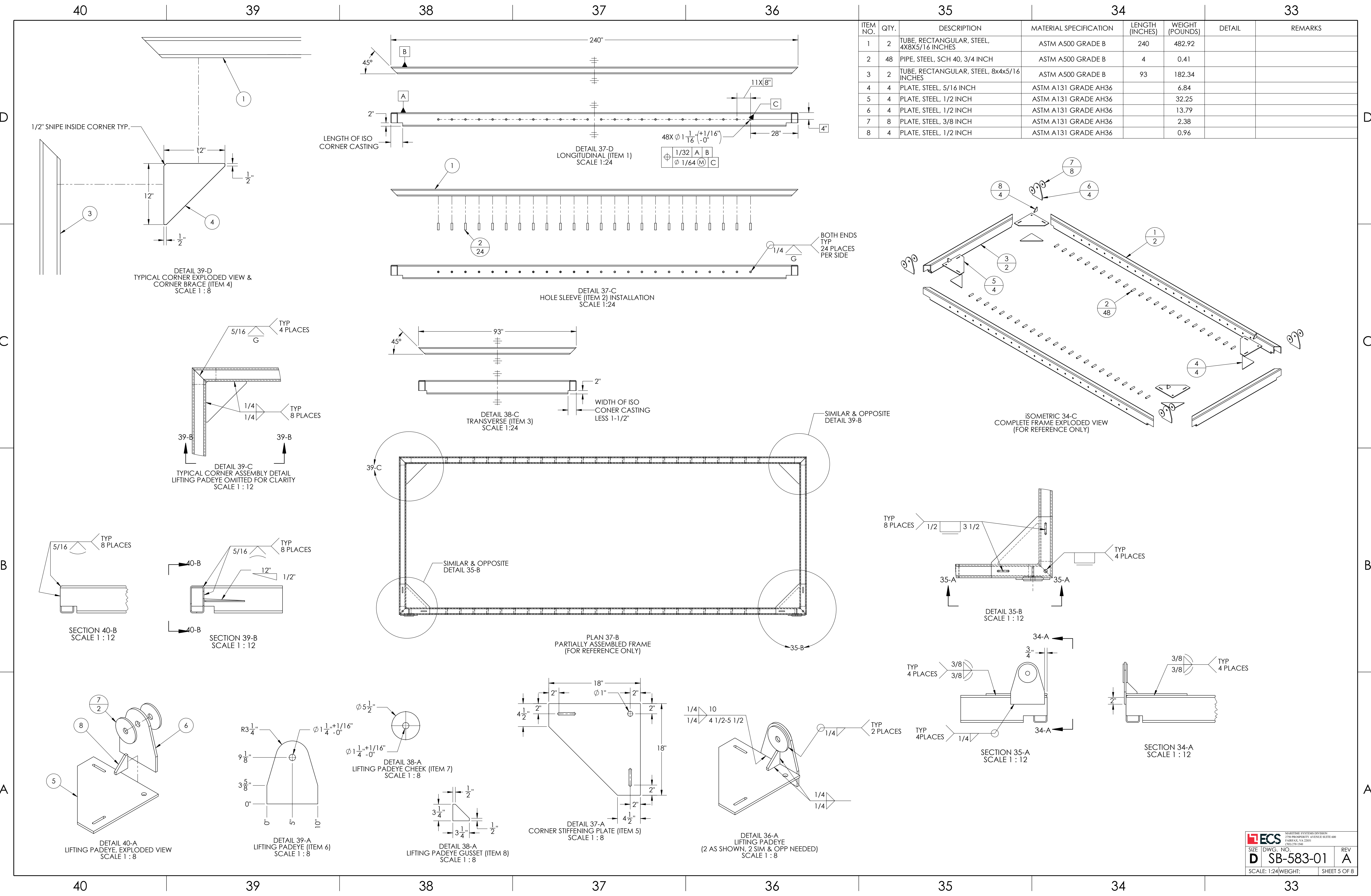
DETAIL 23-A
AFT CROSS BEAM HOLE PATTERN
SCALE 1 : 10

32			31			30	
ITEM NO.	QTY.	DESCRIPTION	MATERIAL SPECIFICATION	LENGTH (INCHES)	WEIGHT (POUNDS)	DETAIL	REMARKS
1	1	STEEL, 5/16 INCH THICK	ASTM A500 GRADE B	11	16.68	28-A, 28-C	CUT FROM 5X9X5/16 RECTANGULAR TUBE
2	1	PIPE, STEEL, SCH 40, 1-1/2 INCH	ASTM A500 GRADE B	15.931	3.82		
3	1	PLATE, STEEL, 1/4 INCH THICK	ASTM A131 GRADE AH36		2.56	29-D	

29		28	
			

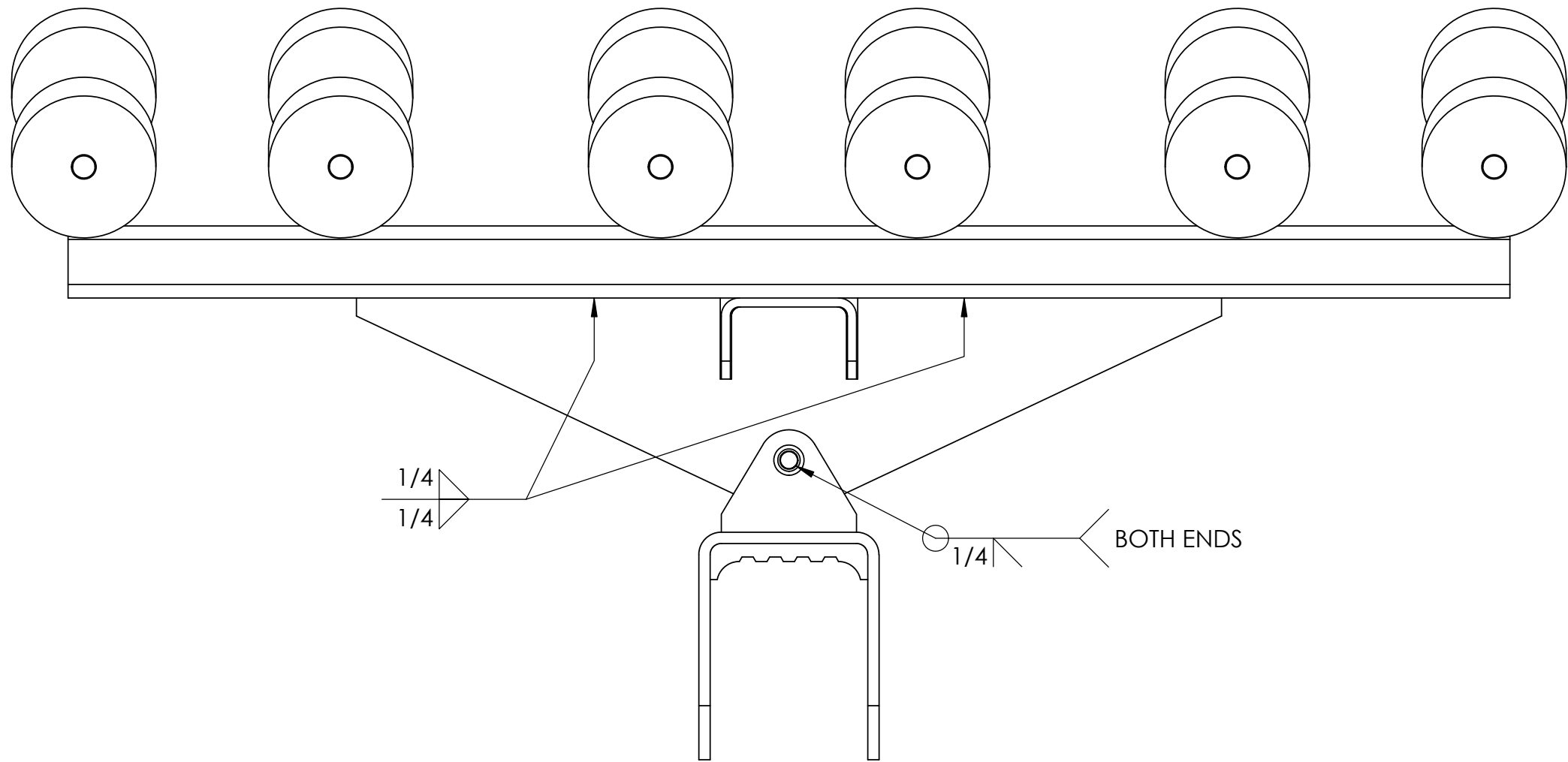
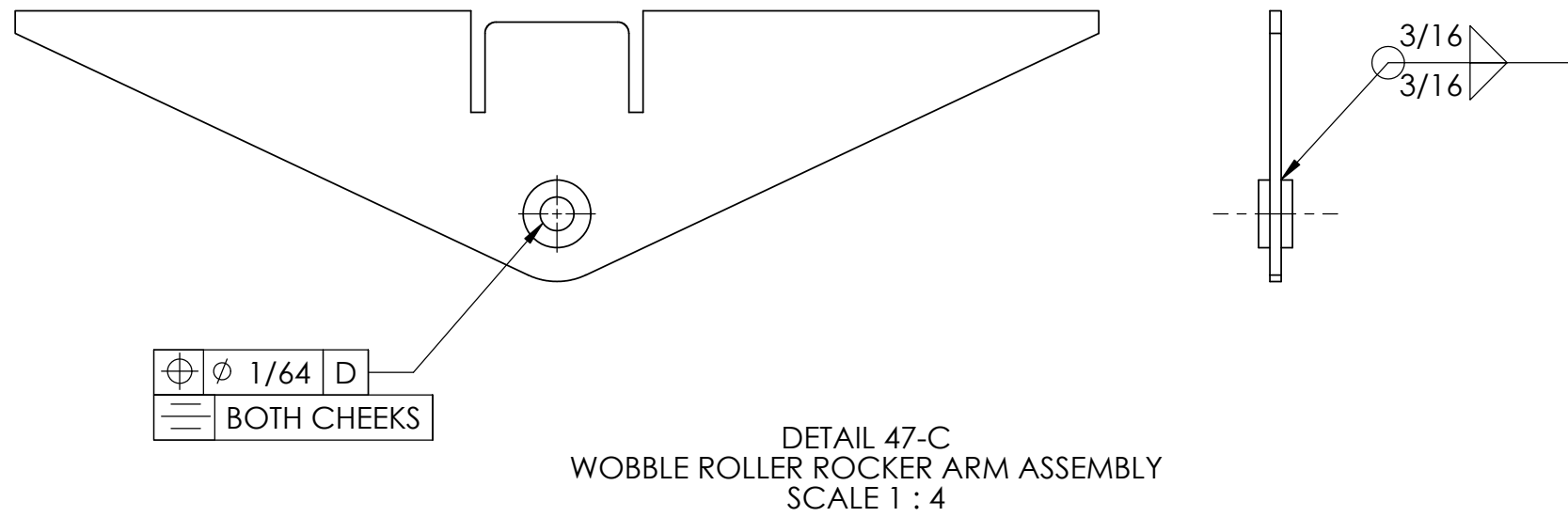
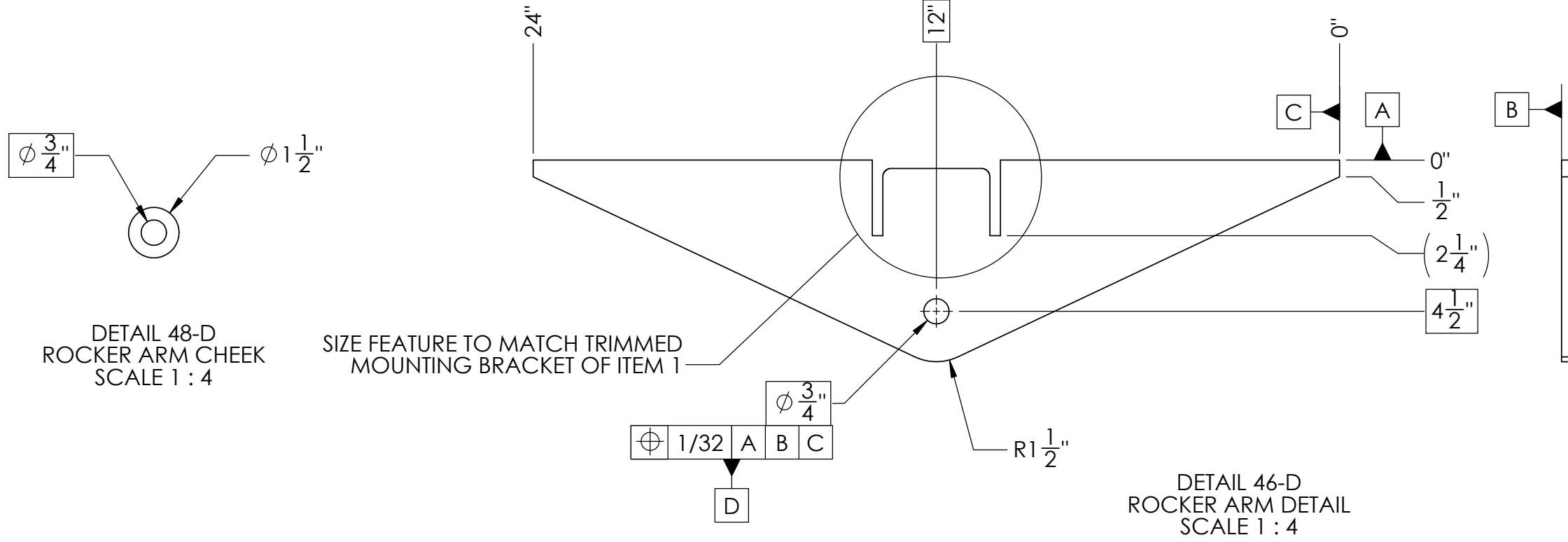
27			26			25	
ITEM NO.	QTY.	DESCRIPTION	MATERIAL SPECIFICATION	LENGTH (INCHES)	WEIGHT (POUNDS)	DETAIL	REMARKS
4	1	STEEL, 5/16 INCH THICK	ASTM A500 GRADE B	11	16.88	28-A	CUT FROM 5X9X5/16 RECTANGULAR TUBE
5	2	PLATE, STEEL, 5/16 INCH THICK	ASTM A131 GRADE AH36		0.59	28-D	
6	2	PIPE, STEEL, SCH 40, 1/2 INCH	ASTM A500 GRADE B	0.5	0.04		



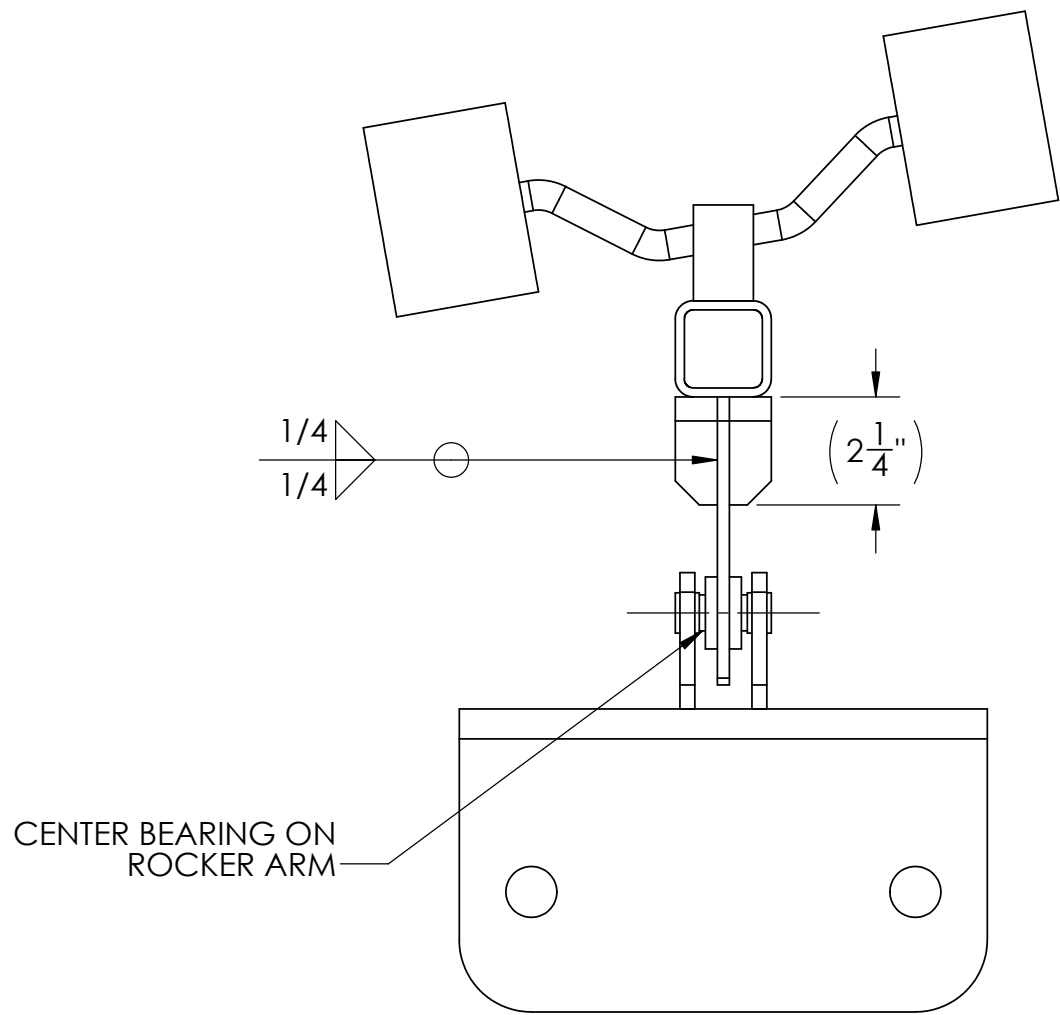
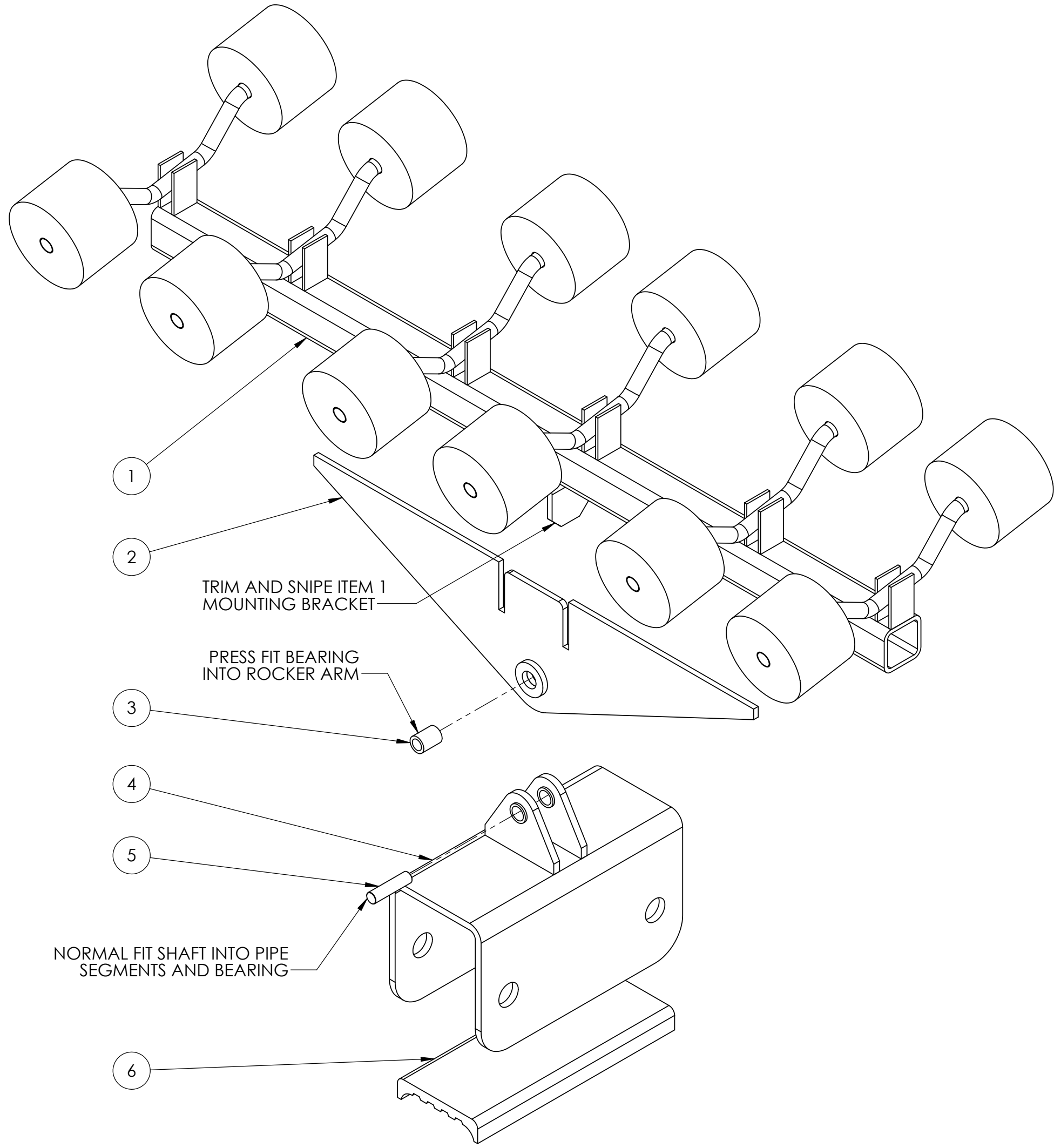


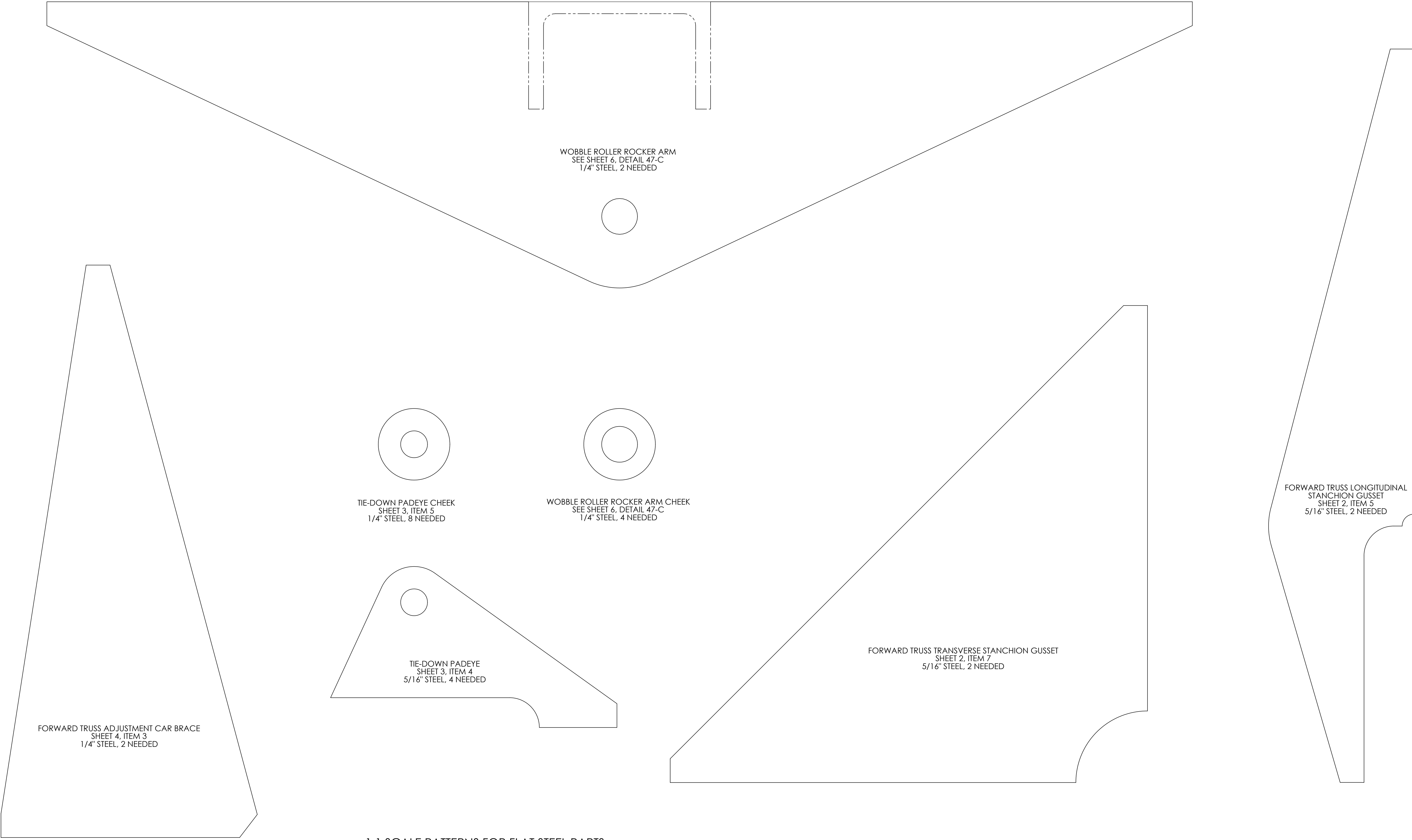
ITEM NO.	QTY.	DESCRIPTION	MATERIAL SPECIFICATION	LENGTH (INCHES)	WEIGHT (POUNDS)	DETAIL	REMARKS
1	2	TUBE, RECTANGULAR, STEEL, 4X8X5/16 INCHES	ASTM A500 GRADE B	240	482.92		
2	48	PIPE, STEEL, SCH 40, 3/4 INCH	ASTM A500 GRADE B	4	0.41		
3	2	TUBE, RECTANGULAR, STEEL, 8x4x5/16 INCHES	ASTM A500 GRADE B	93	182.34		
4	4	PLATE, STEEL, 5/16 INCH	ASTM A131 GRADE AH36		6.84		
5	4	PLATE, STEEL, 1/2 INCH	ASTM A131 GRADE AH36		32.25		
6	4	PLATE, STEEL, 1/2 INCH	ASTM A131 GRADE AH36		13.79		
7	8	PLATE, STEEL, 3/8 INCH	ASTM A131 GRADE AH36		2.38		
8	4	PLATE, STEEL, 1/2 INCH	ASTM A131 GRADE AH36		0.96		

WOBBLE ROLLER SUBASSEMBLY (2 NEEDED)				
ITEM	QTY	DESCRIPTION	MATERIAL	REMARKS
1	1	EXTRA HEAVY DUTY WOBBLE ROLLER ASSEMBLY	VARIOUS	VE-VE INC. PART NO. T-989-G OR EQUIVALENT
2	1	WOBBLE ROLLER ROCKER ARM	PLATE, STEEL, 1/4 INCH	FOR ASSEMBLY DETAILS SEE DETAIL 47-C
3	1	CORROSION-RESISTANT SLEEVE BEARING	954 ALUMINUM BRONZE	MACMASTER CARR PART NO. 2867T61 OR EQUIVALENT
4	1	AFT TRUSS ADJUSTMENT CAR	STEEL, VARIOUS	FOR ASSEMBLY DETAILS SEE DETAIL 26-C
5	1	AXLE SHAFT	1566 CARBON STEEL	2 INCH LENGTH CUT FROM MACMASTER CARR PART NO. 1346K17 OR EQUIVALENT
6	1	PLASTIC COUPLER INSERT	UHMW PLASTIC	SEE NOTE 8

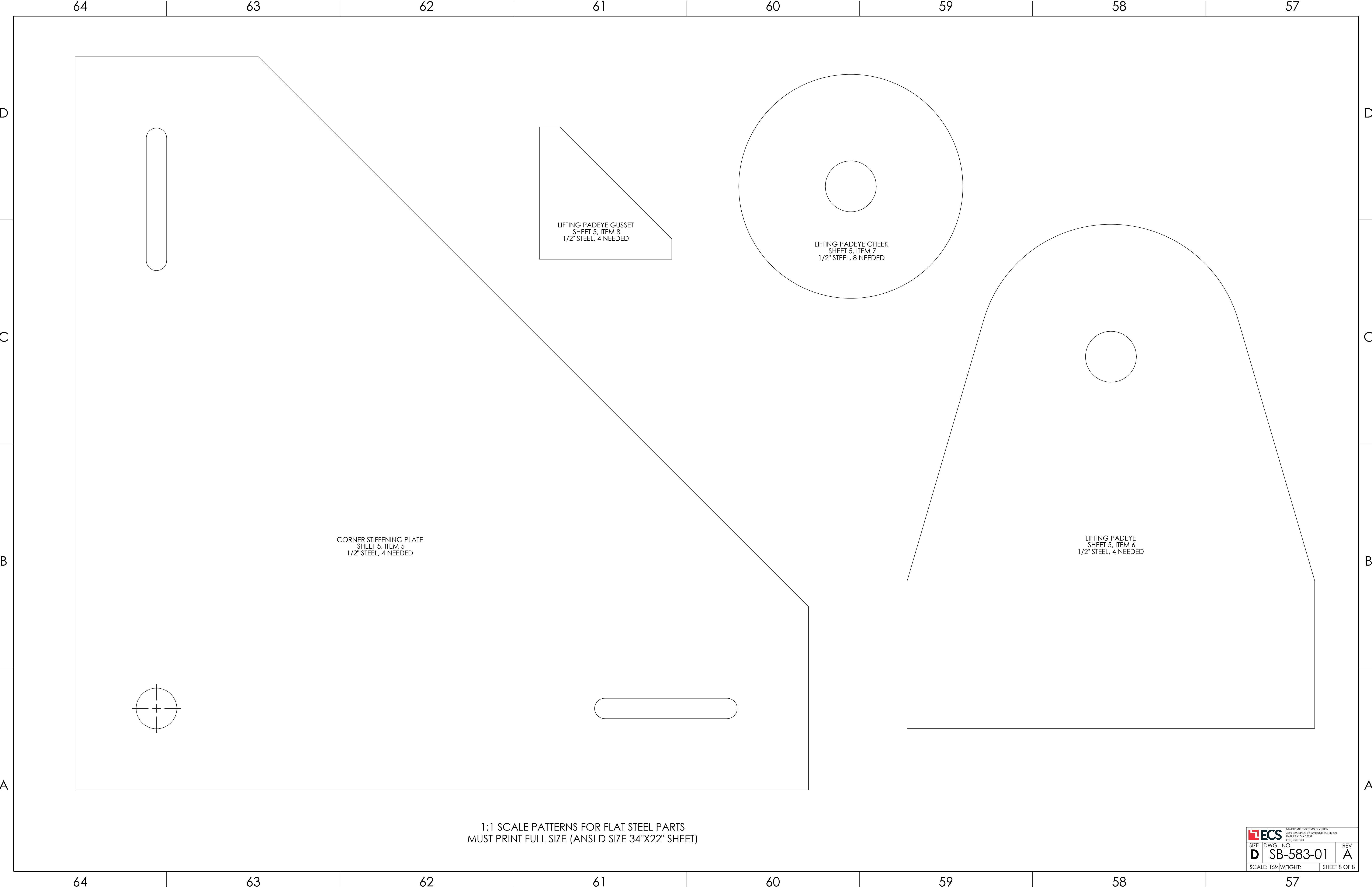


DETAIL 46-A
WOBBLE ROLLER SUBASSEMBLY DETAILS
SCALE 1 : 4





1:1 SCALE PATTERNS FOR FLAT STEEL PARTS
MUST PRINT FULL SIZE (ANSI D SIZE 34"X22" SHEET)



1:1 SCALE PATTERNS FOR FLAT STEEL PARTS
MUST PRINT FULL SIZE (ANSI D SIZE 34"X22" SHEET)