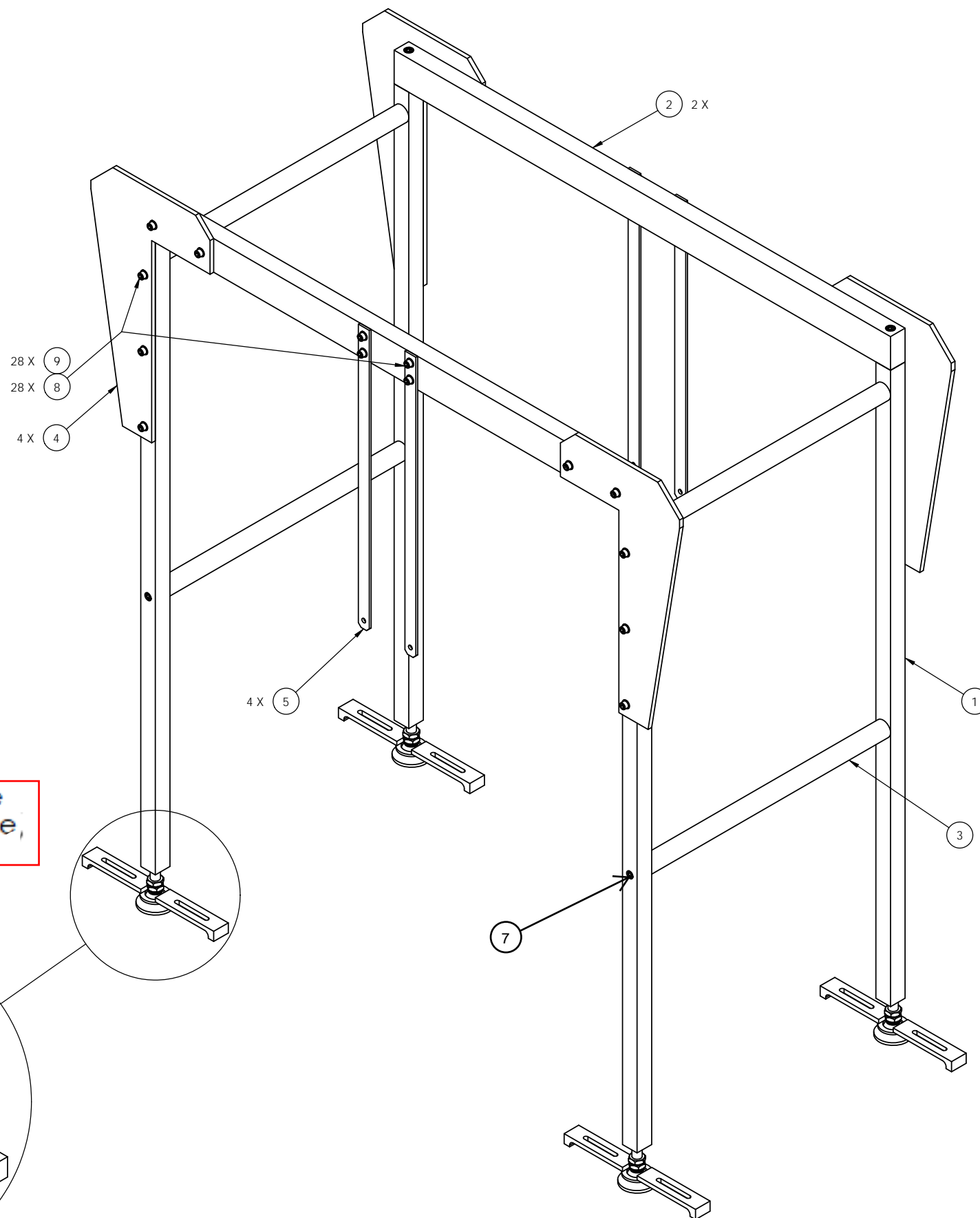


REV.	DATE	DCN #	DRAWING TREE #
v1	4/14/2011	E1100355-v1	-
v-2		to follow	-
v-3	10-25-12	to follow	-

6. APPROXIMATE WEIGHT = 45.50 LB [18.82 KG].

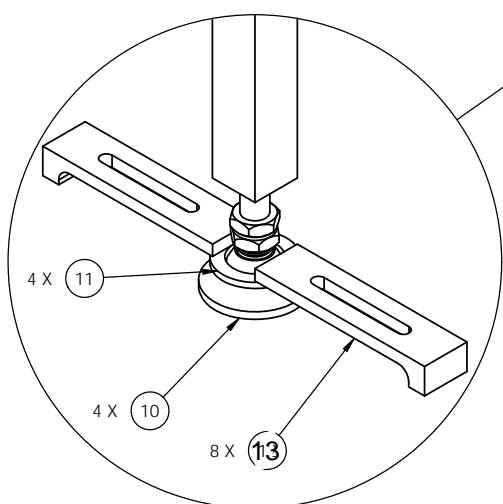


**USED TO SUPPORT TELESCOPE AND OPTICAL TABLE ASSEMBLY (PAGE 3) FOR FINAL ALIGNMENT OF TELESCOPE TO TABLE, AND TABLE ELEMENTS**

**Note: Item 10 in First Article Delivered to LHO may have, a 1/2-13 thread pitch**

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
13		LOS DOG Clamp				
12	92196A551	(McMASTER-CARR) .25-20 x 2.25" L. S.H.C.S	18-8 s. stl	4		4
11	98126A849	(McM-Carr), WASHER, 1" ID X 1.5 OD x .12 T	18-8 SSSL	4	2	6
10	6111K153	McMASTER, SWIVEL LEVELING MOUNT, .50-20 X 3.125 LG, 1.875 DIA BASE, 2.00 STUD	NICKEL PLATED STEEL	4	0	4
9	96861A600	(McMASTER-CARR) .25 VENTED WASHER, .255 ID X .468 OD X .031 THK	18-8 SSSL	28	5	33
8	92196A540	(McMASTER-CARR) .25-20-.75 L. S.H.C.S.	18-8 SSSL	28	5	33
7	92196A546	(McMASTER-CARR) .25-20 1.5 L. S.H.C.S	18-8 SSSL	8	2	10
5	D1100541	aLIGO TMS OPTICAL TABLE BRIDGE VERTICAL SUPPORT BAR	304 SSSL	4	0	4
4	D1100535	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE, EXTERNAL GUSSET	6061-T6 Al	4	0	4
3	D1100534	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE SIDE BRACE	6061-T6 Al	4	0	4
2	D1100533	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE TOP BAR	6061-T6 Al	2	0	2
1	D1100532	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE LEGS	6061-T6 Al	4	0	4

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
12		LOS DOG CLAMP	AISI-1020	8		8
11	98126A849	McMASTER, WASHER, 1" ID X 1.5 OD x .12 H	18-8 SSSL	4	2	6
10	6111K153	McMASTER, SWIVEL LEVELING MOUNT, .50-20 X 3.125 LG, 1.875 DIA BASE, 2.00 STUD	NICKEL PLATED STEEL	4	0	4
9	96861A600	(McM-Carr) .25 VENTED WASHER, .255 ID X .468 OD X .031 THK	18-8 SSSL	28	5	33
8	C-2012-N	U-COMP, SOCKET HEAD CAP SCREW, .25-20 X .75 LG, 18-8 SSSL	18-8 SSSL	28	5	33
7	C-2032-N	U-COMP, SOCKET HEAD CAP SCREW, .25-20 X 2.00 LG, 18-8 SSSL	18-8 SSSL	8	2	10
6	C-2040-N	U-COMP, SOCKET HEAD CAP SCREW, .25-20 X 2.50 LG, 18-8 SSSL	18-8 SSSL	4	2	6
5	D1100541	aLIGO TMS OPTICAL TABLE BRIDGE VERTICAL SUPPORT BAR	304 SSSL	4	0	4
4	D1100535	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE, EXTERNAL GUSSET	6061-T6 Al	4	0	4
3	D1100534	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE SIDE BRACE	6061-T6 Al	4	0	4
2	D1100533	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE TOP BAR	6061-T6 Al	2	0	2
1	D1100532	aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE LEGS	6061-T6 Al	4	0	4

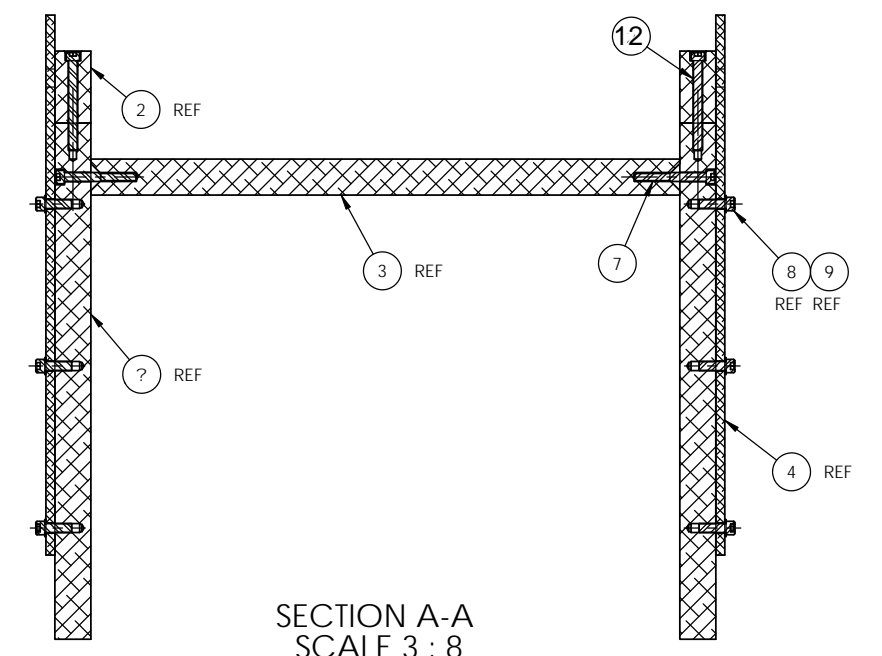
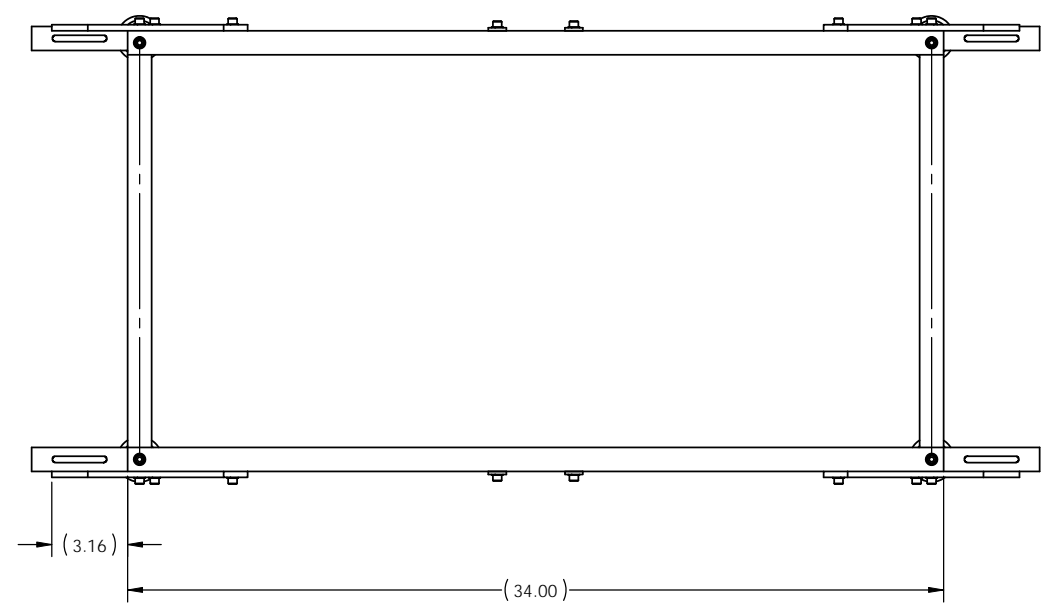


DETAIL F  
SCALE 10 : 16

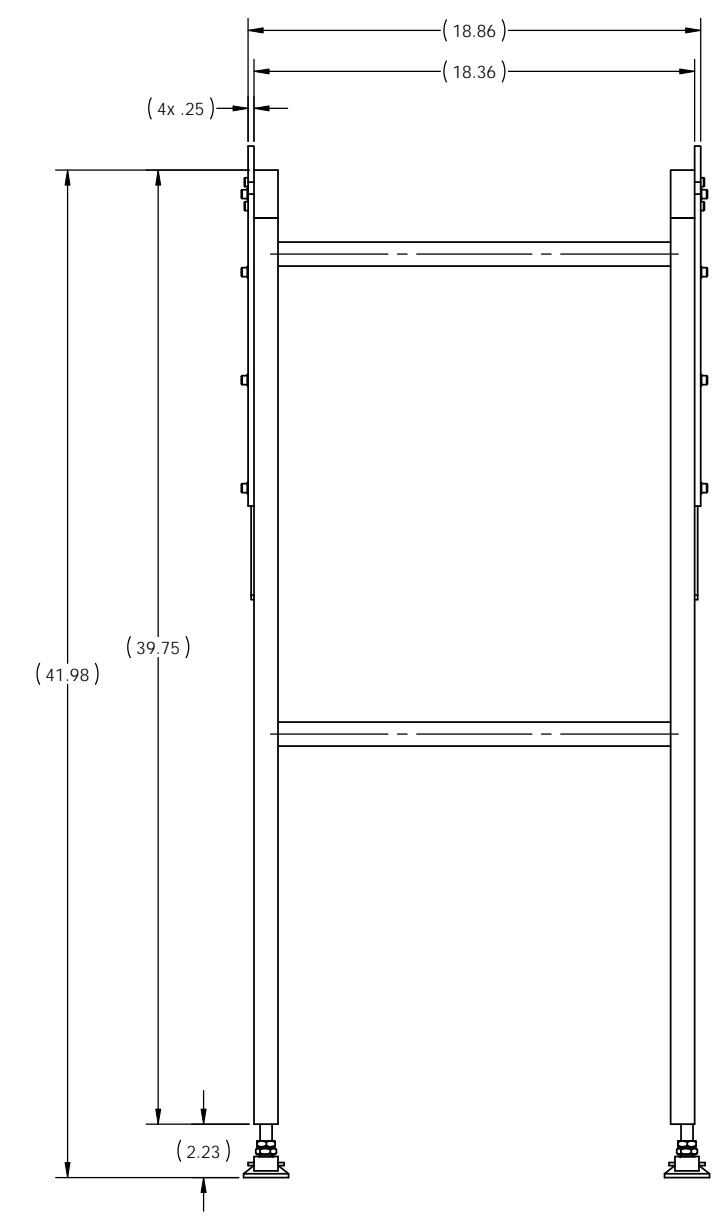
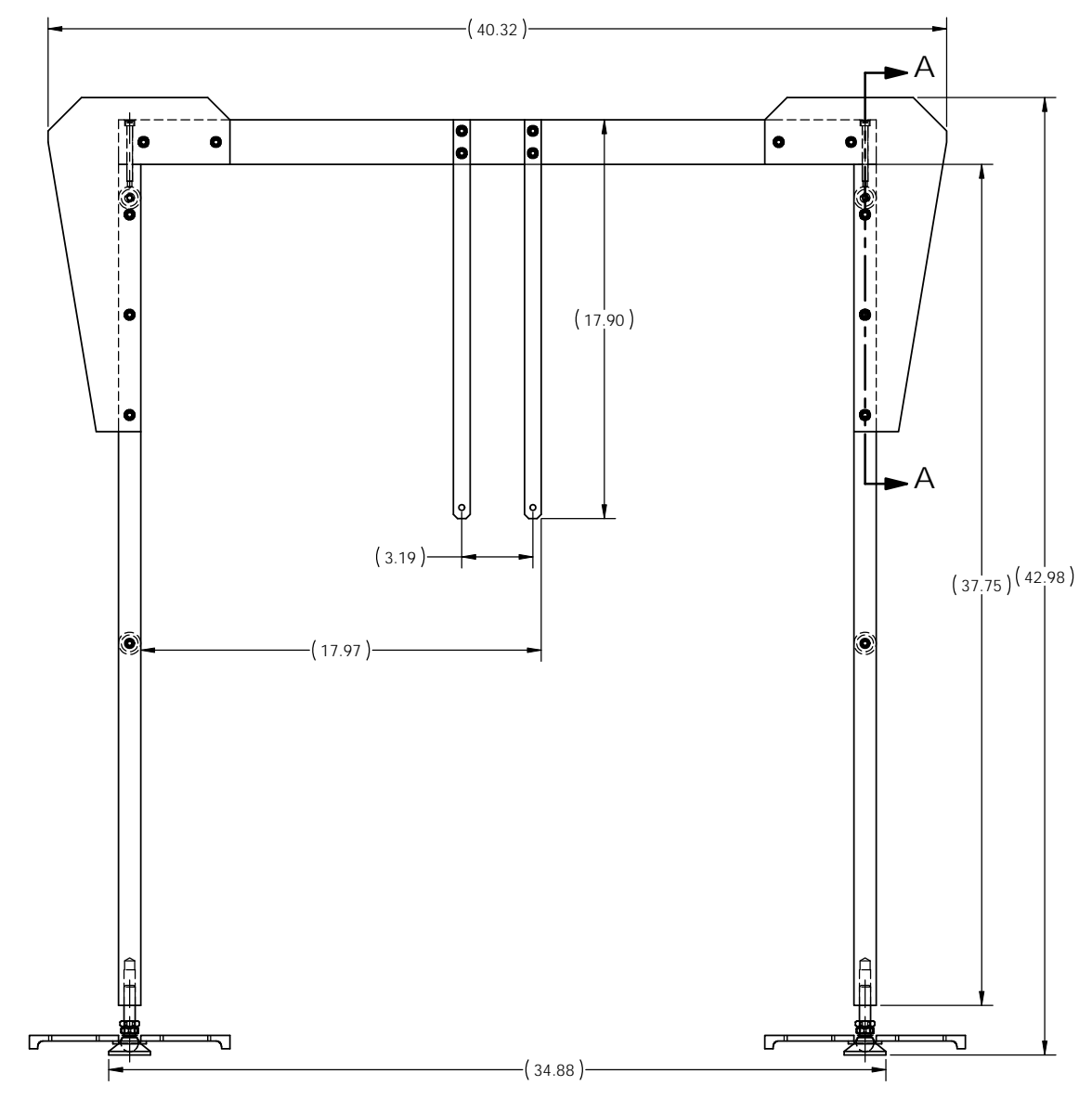
NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
1. INTERPRET DRAWING PER ASME Y14.5-1994.	
2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS.	
3. DO NOT SCALE FROM DRAWING.	
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
DIMENSIONS ARE IN INCHES	
TOLERANCES:	
.XX ± .02	
.XXX ± .005	
ANGULAR ± 1.0°	
MATERIAL	N/A
FINISH	N/A μinch

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME		aLIGO TMS OPTICAL TABLE SUPPORT BRIDGE ASSY	
SYSTEM	ADVANCED LIGO	SUB-SYSTEM	AOS	DESIGNER	J. TERRAZAS 24 MAR 2011
NEXT ASSY	TOOLING	CHECKER	J. TERRAZAS 29 MAR 2011	SIZE	D
APPROVAL		CHECKER		DWG. NO.	D1100531
		APPROVAL		SCALE: 1:8	PROJECTION:
					SHEET 1 OF 3

D1100531\_ALIGO TMS OPTICAL TABLE SUPPORT BRIDGE ASSY PART PDM REV. X.031, DRAWING PDM REV. X.024



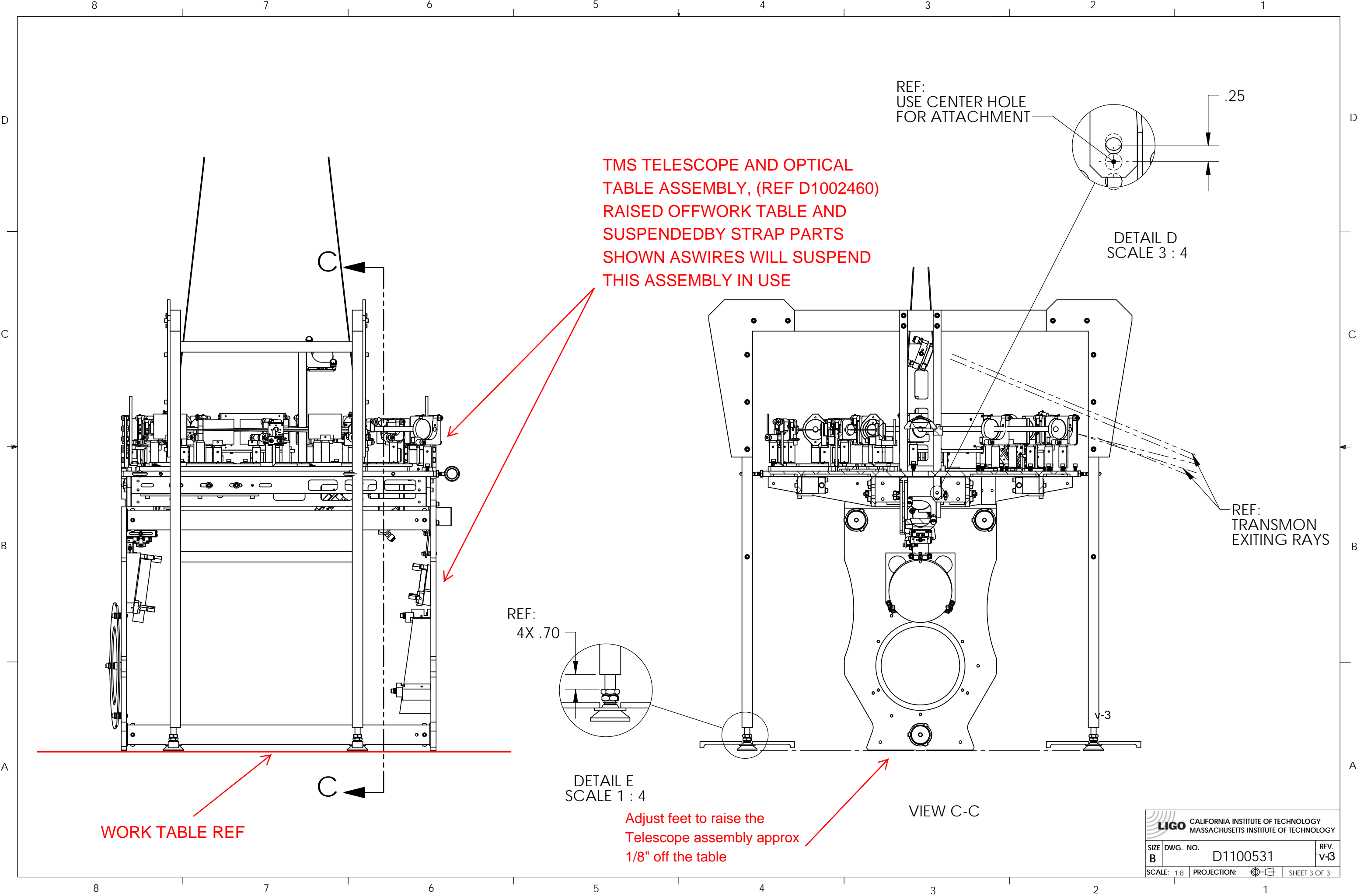
SECTION A-A  
SCALE 3 : 8



<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE D	DWG. NO. <b>D1100531</b>
SCALE: 1:8	REV. <b>v-3</b>
PROJECTION:	SHEET 2 OF 3

D1100531\_LIGO TMS OPTICAL TABLE SUPPORT BRIDGE ASSY PART PDM REV. X.031 DRAWING PDM REV. X.024

D1100531\_LIGO TMS OPTICAL TABLE SUPPORT BRIDGE ASSY, PART PDM REV: X-031, DRAWING PDM REV: X-024



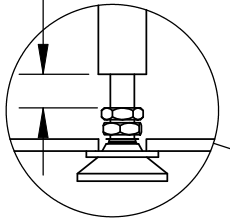
TMS TELESCOPE AND OPTICAL TABLE ASSEMBLY, (REF D1002460) RAISED OFFWORK TABLE AND SUSPENDED BY STRAP PARTS SHOWN AS WIRES WILL SUSPEND THIS ASSEMBLY IN USE

REF: USE CENTER HOLE FOR ATTACHMENT

DETAIL D SCALE 3 : 4

REF: TRANSMON EXITING RAYS

REF: 4X .70



DETAIL E SCALE 1 : 4

Adjust feet to raise the Telescope assembly approx 1/8" off the table

VIEW C-C

WORK TABLE REF

		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE	DWG. NO.	REV.	
B	D1100531	v-43	
SCALE: 1:8	PROJECTION:	SHEET 3 OF 3	