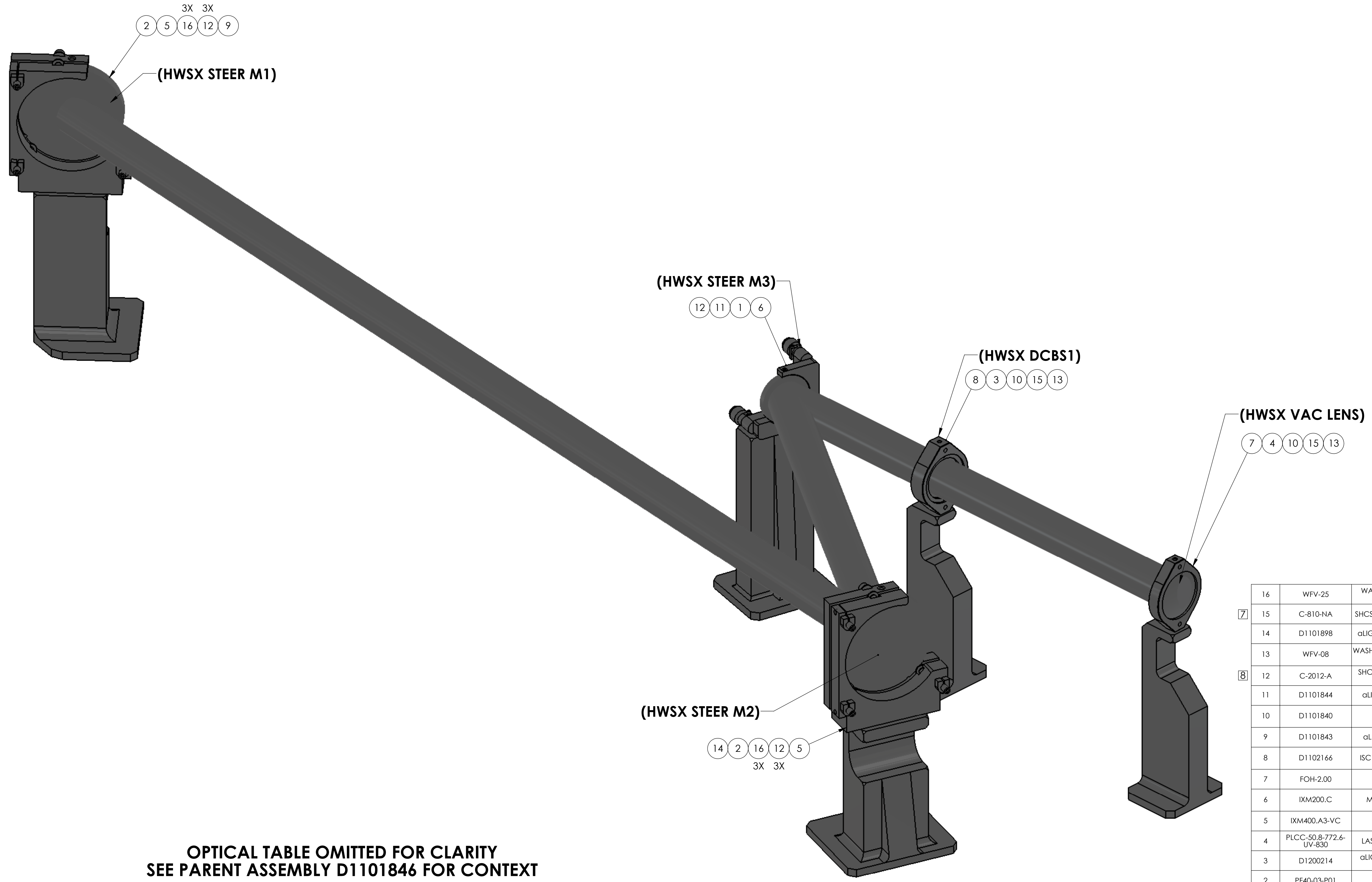


NOTES CONTINUED:
 5. SEE SHEETS 2 AND 3 FOR LAYOUT DIMENSIONS
 6. ALL DIMENSIONS ARE WRT HAM4 0,0,0 LOCAL CS.
 7. #8-32 TORQUE TO 20 in-lb, MAX
 8. 1/4-20 TORQUE TO 65 in-lb, MAX

REV.	DATE	DCN #	DRAWING TREE #
v1	02-MAY-12	E1100986-v1	E1100987-v1
-	-	-	-
-	-	-	-



**OPTICAL TABLE OMITTED FOR CLARITY
 SEE PARENT ASSEMBLY D1101846 FOR CONTEXT**

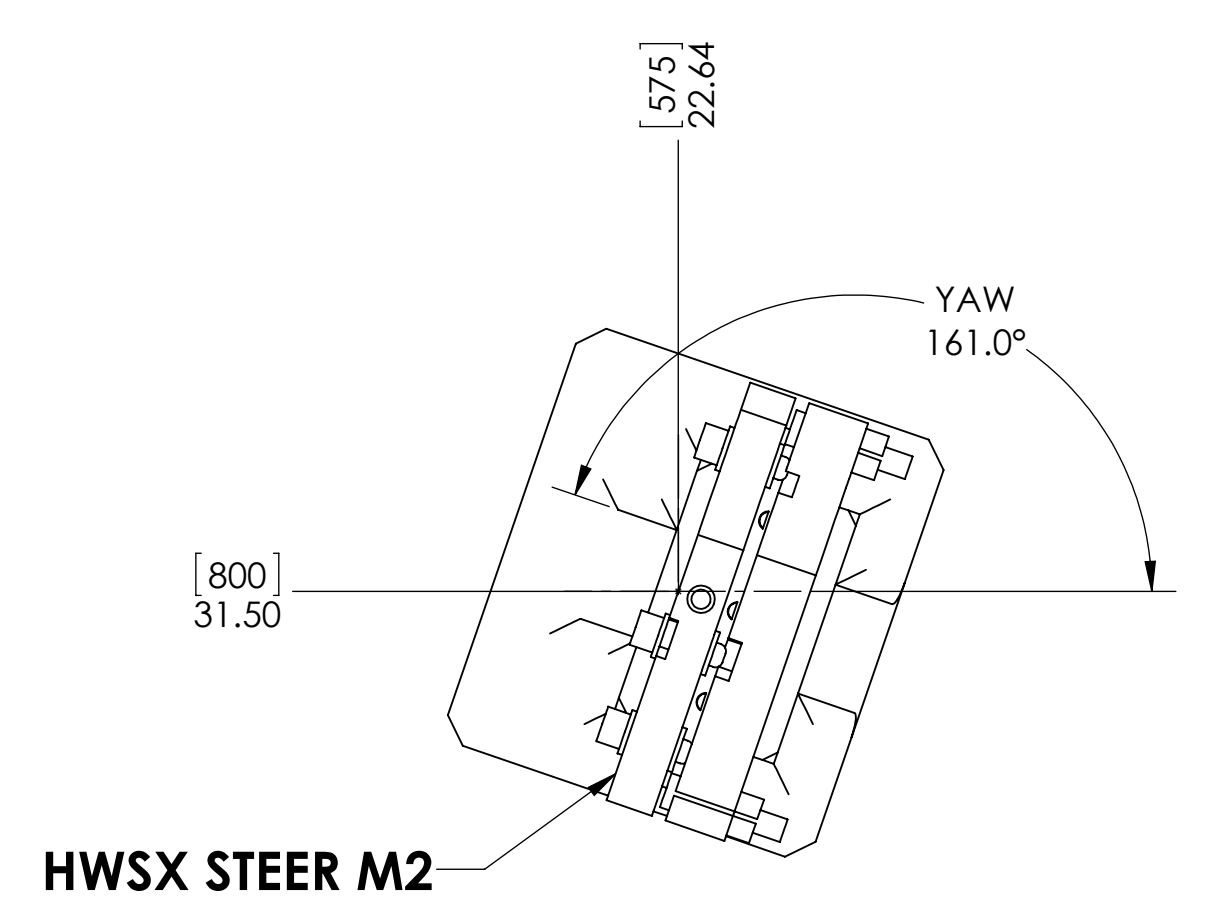
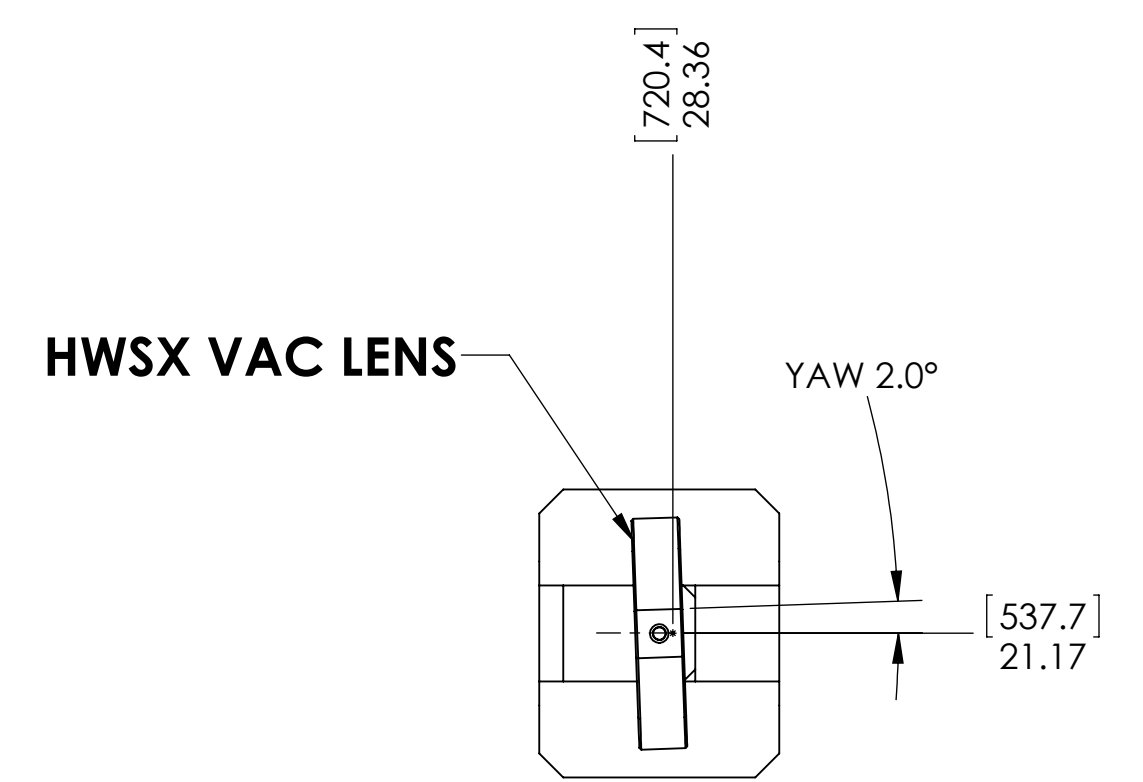
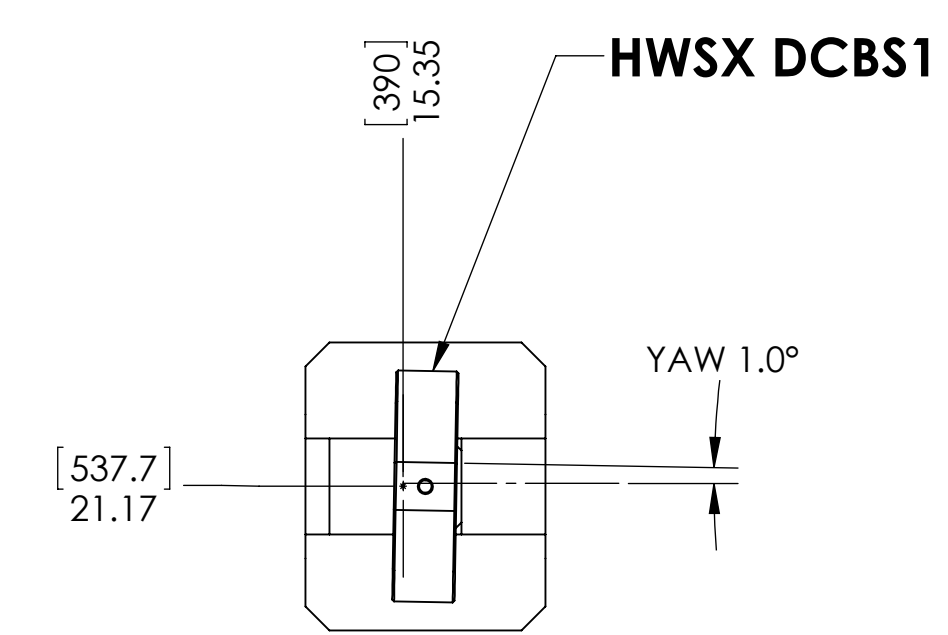
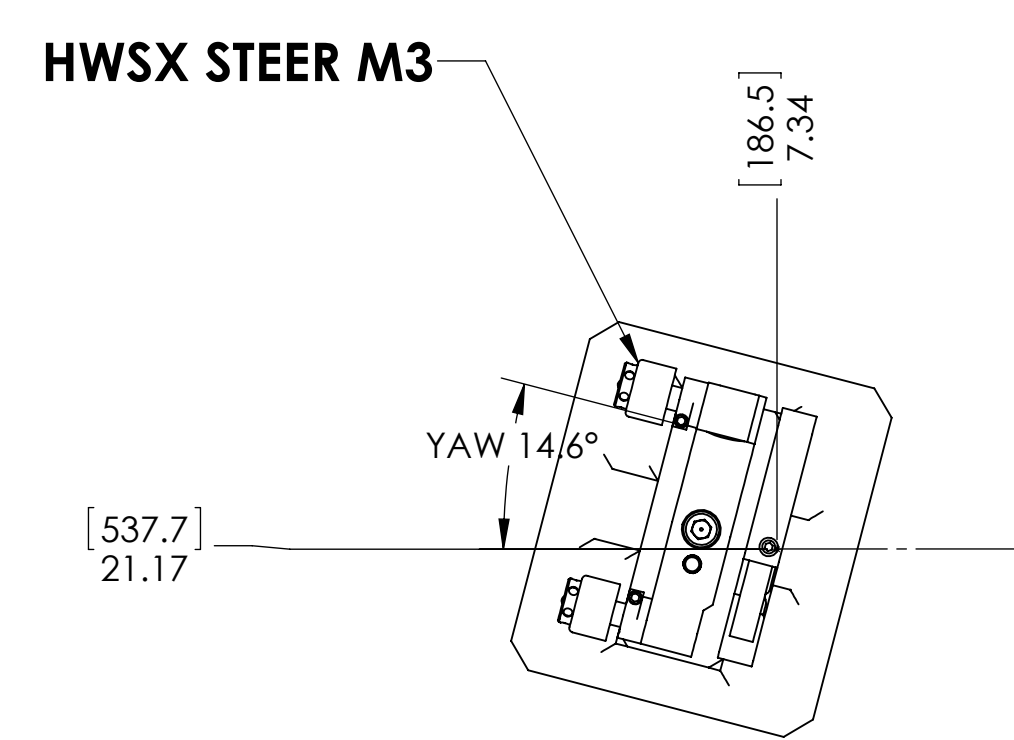
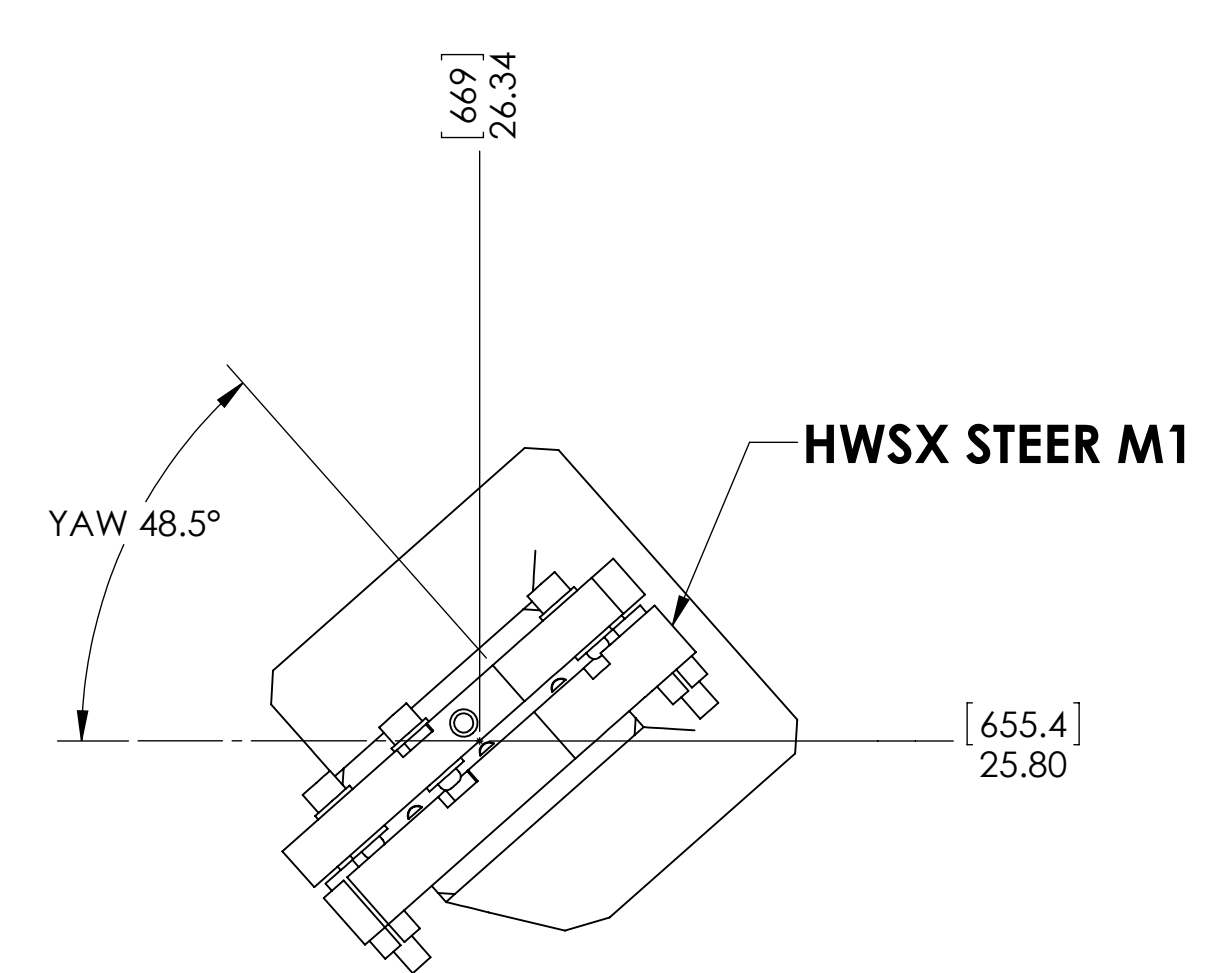
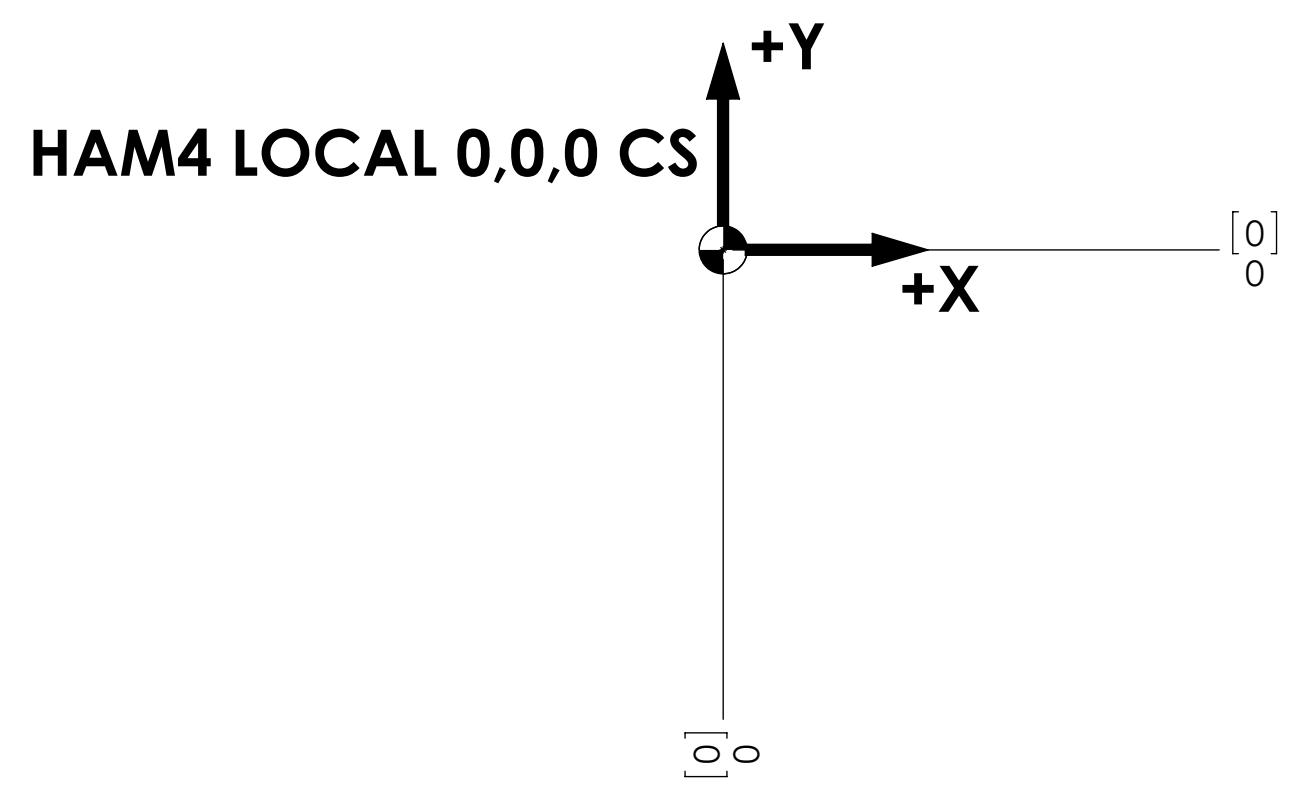
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL
16	WFV-25	WASHER, VENTED FLAT, .255 ID X .468 OD X .031TK. UC-COMPONENTS	Stainless Steel (ferritic)	6	2	8
15	C-810-NA	SHCS 8-32 X .625 LONG, SILVER PLATED, UC-COMPONENTS	18-8 SSSL, Au PLT	2	2	4
14	D1101898	ALIGO PEDESTAL HAM4 HWSX-M2 4IN MIRROR MOUNT	6061 Alloy	1	0	1
13	WFV-08	WASHER, VENTED FLAT, #8 .169ID X .304OD X .032THK. UC-COMPONENTS	Alloy Steel (SS)	2	2	4
12	C-2012-A	SHCS, 1/4-20 UNC-2A X 3/4LG, VENTED, SILVER PLATED. UC-COMPONENTS	18-8 SSSL, Au PLT	7	3	10
11	D1101844	ALIGO, PEDESTAL, HAM4, HWSY, 2IN MIRROR MOUNT	6061 Alloy	1	0	1
10	D1101840	ALIGO PEDESTAL HWSX 2IN OPTIC MOUNT	6061 Alloy	2	0	2
9	D1101843	ALIGO, PEDESTAL HAM4 HWSX 4IN MIRROR MOUNT	6061 Alloy	1	0	1
8	D1102166	ISC Fixed Optic Holder- custom size for LIGO . Siskiyou	6061 Alloy	1	0	1
7	FOH-2.00	FIXED OPTIC HOLDER. SISKIYOU	6061 ALLOY	1	0	1
6	IXM200.C	MOUNT, 100TPI, 2IN OPTIC CUTAWAY, RH. SISKIYOU	6061 Alloy	1	0	1
5	IXM400.A3-VC	LIGO 4IN OPTIC MOUNT, SISKIYOU	6061 Alloy	2	0	2
4	PLCC-50.8-772.6-UV-830	LASER QUALITY_CONCAVE LENSE. CVI MELLES GRIOI	Glass	1	0	1
3	D1200214	ALIGO TCS HWS DICHROIC BEAM SPLITTER. PRECISION PHOTONICS	Glass	1	0	1
2	PF40-03-P01	4IN METALLIC MIRROR, THORLABS	N-BK7 w-PROT. AU PLT	2	0	2
1	PF20-03-P01-10	2IN METALLIC MIRROR, THORLABS	N-BK7 w-PROT. AU PLT	1	0	1

DIMENSIONS ARE IN INCHES		NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME		
TOLERANCES: .XX ± .01 .XXX ± .005		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.		SYSTEM ADVANCED LIGO		SUB-SYSTEM AOS		aLIGO TCS HWS OPTO MECHANICAL LAYOUT, ITMX, L1
ANGULAR ± 1.0°		MATERIAL		NEXT ASSY		DESIGNER		
		N/A		D1101846		A. BROOKS		
		FINISH				DATE		
		N/A μinch				02 DEC 2010		
						SIZE		
						D		
						DWG. NO.		
						D1101847		
						REV.		
						v1		
						SCALE: 1:4		
						PROJECTION:		
						SHEET 1 OF 3		

D1101847_0100_HWS OPTO MECHANICAL LAYOUT, ITMX, PART FDM REV. 3-094, DRAWING PDM REV. X-037

8 7 6 5 4 3 2 1

H
G
F
E
D
C
B
A



LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

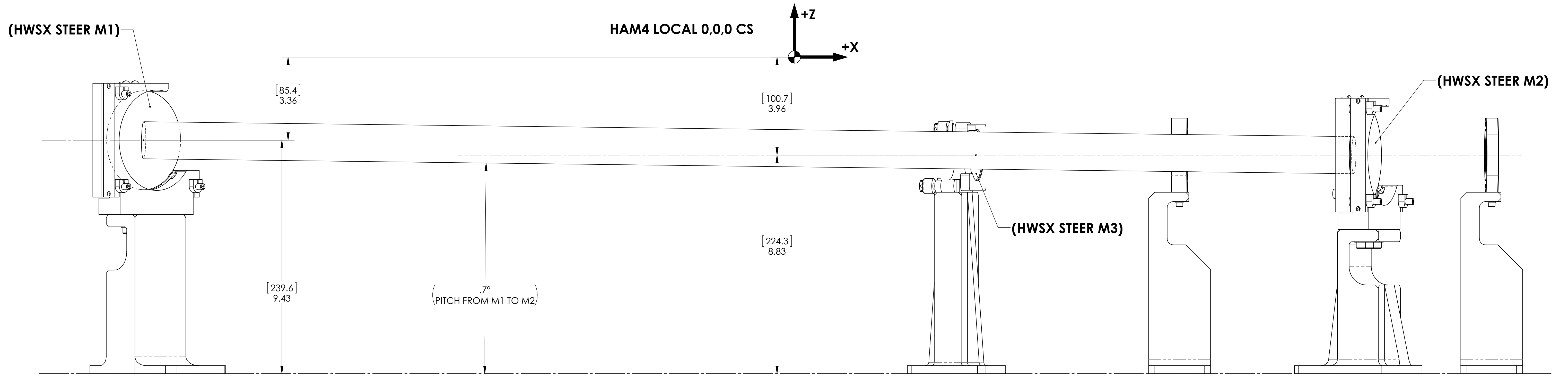
SIZE	DWG. NO.	REV.
D	D1101847	v1
SCALE: 1:4	PROJECTION:	SHEET 2 OF 3

D:\101847_01\G01\HWS_CSTO_Mechanical\Layout_ITMX_PART_FDM_REV_X-094_DRAWING_FDM_REV_X-037

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

H
G
F
E
D
C
B
A



LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE	DWG. NO.	REV.
D	D1101847	v1
SCALE: 1:4	PROJECTION:	SHEET 3 OF 3

8 7 6 5 4 3 2 1

D:\101847_01\G01\HWS_CSTO_MECHANICAL_LAYOUT.ITB.X_PDF.PDF REV: 3-094 DRAWING PDM REV: X-037