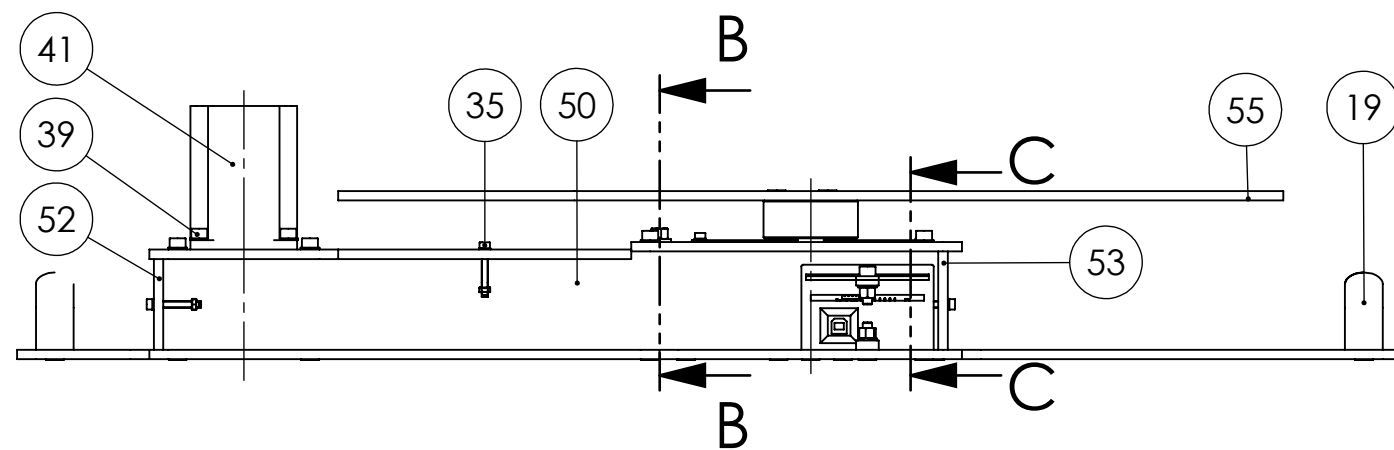
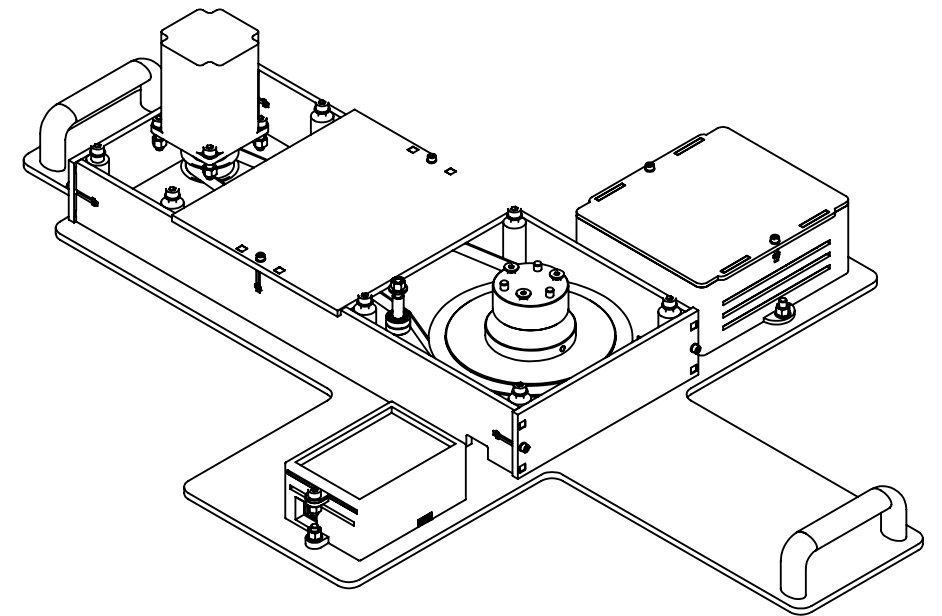


TOP VIEW



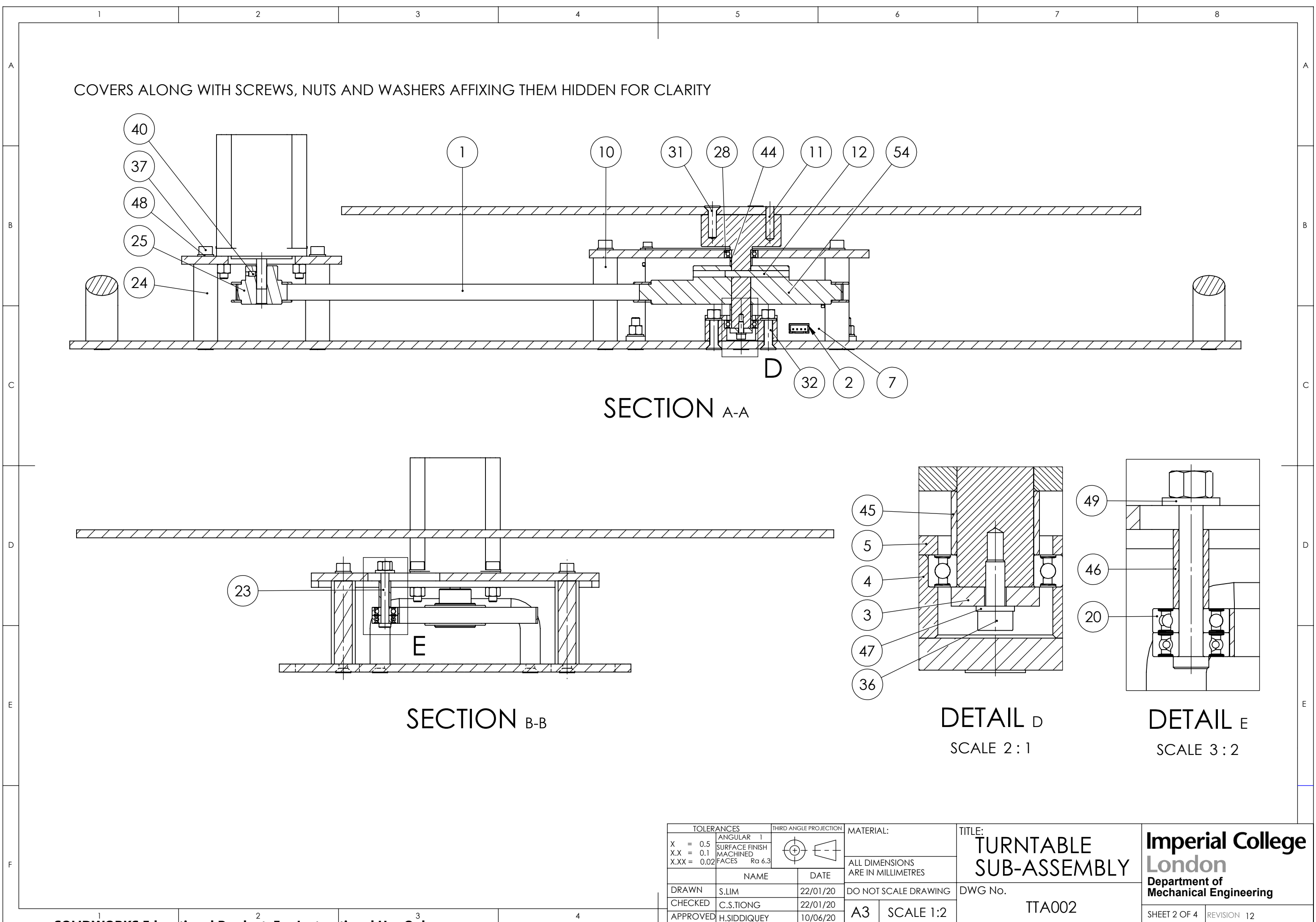
SIDE VIEW



ISOMETRIC VIEW  
SCALE 1:5

TURNTABLE, INTERMEDIATE PLATFORM AND MOTOR SUPPORT  
PLATE HIDDEN TO ILLUSTRATE PLACEMENT OF FIVE COVERS

TOLERANCES		THIRD ANGLE PROJECTION		MATERIAL:		TITLE:  TURNTABLE SUB-ASSEMBLY		<div>Imperial College London Department of Mechanical Engineering</div>	
X = 0.5	ANGULAR 1								
X.X = 0.1	SURFACE FINISH								
X.XX = 0.02	MACHINED FACES Ra 6.3								
NAME		DATE		ALL DIMENSIONS ARE IN MILLIMETRES		DWG No.  TTA001			
DRAWN	S.LIM	22/01/20		DO NOT SCALE DRAWING					
CHECKED	C.S.TIONG	22/01/20		A3		SCALE 1:4			
APPROVED	H.SIDDIQUEY	10/06/20							
SHEET 1 OF 4		REVISION 12							




COVERS ALONG WITH SCREWS, NUTS AND WASHERS AFFIXING THEM HIDDEN FOR CLARITY

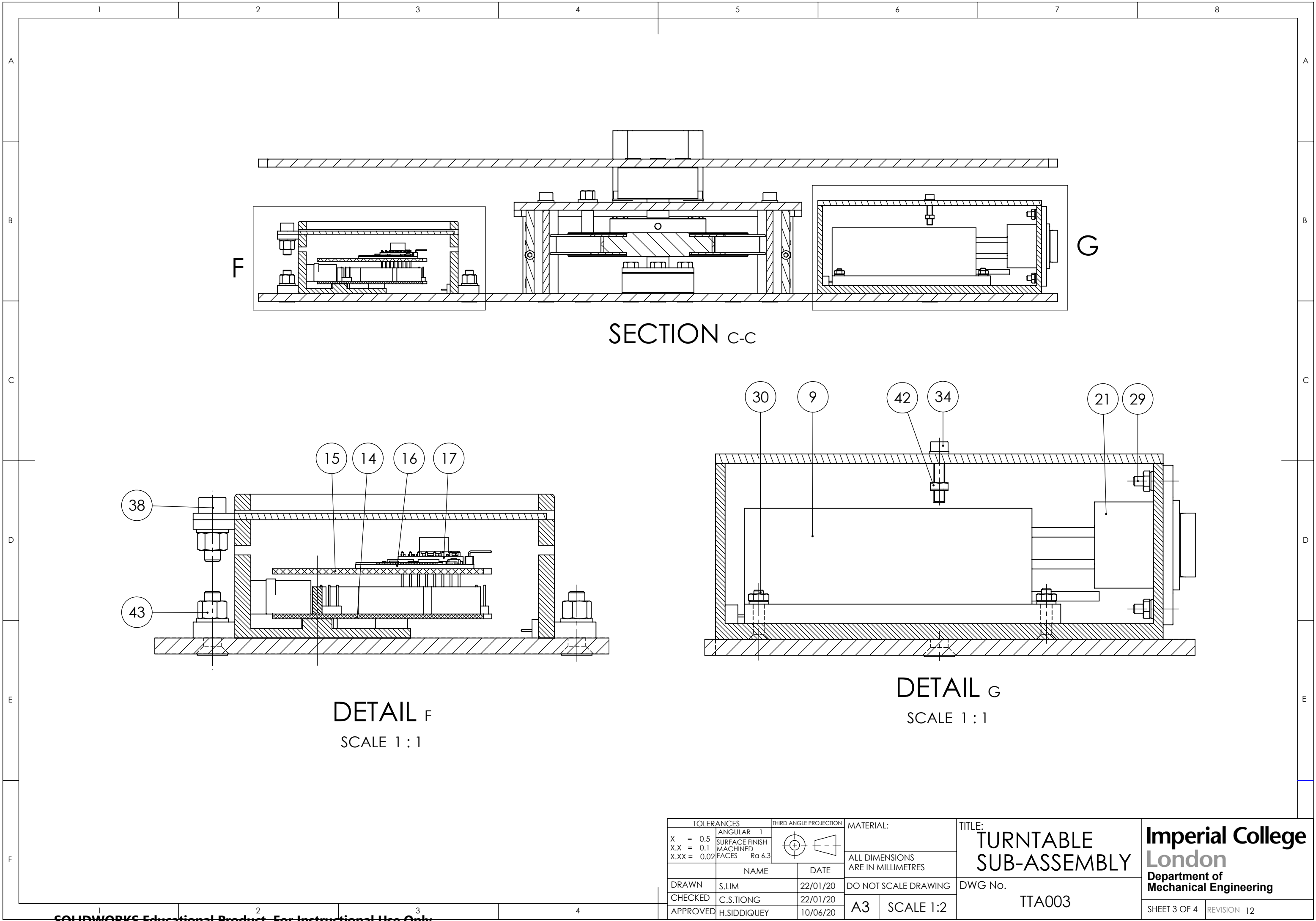
SECTION A-A


SECTION B-B

DETAIL D  
SCALE 2 : 1

DETAIL E  
SCALE 3 : 2

TOLERANCES		THIRD ANGLE PROJECTION		MATERIAL:		TITLE: <b>TURNTABLE SUB-ASSEMBLY</b>		<b>Imperial College London</b> <b>Department of Mechanical Engineering</b>	
X = 0.5	ANGULAR 1								
X.X = 0.1	SURFACE FINISH								
X.XX = 0.02	MACHINED FACES Ra 6.3								
		NAME		DATE		ALL DIMENSIONS ARE IN MILLIMETRES			
DRAWN		S.LIM		22/01/20		DO NOT SCALE DRAWING		DWG No.	
CHECKED		C.S.TIONG		22/01/20		A3		SCALE 1:2	
APPROVED		H.SIDDIQUEY		10/06/20					
								TTA002	
								SHEET 2 OF 4	
								REVISION 12	



TOLERANCES		THIRD ANGLE PROJECTION		MATERIAL:		TITLE:  TURNTABLE SUB-ASSEMBLY		Imperial College London Department of Mechanical Engineering			
X = 0.5	ANGULAR 1										
X.X = 0.1	SURFACE FINISH										
X.XX = 0.02	MACHINED FACES Ra 6.3										
		NAME		DATE		ALL DIMENSIONS ARE IN MILLIMETRES					
DRAWN	S.LIM		22/01/20		DO NOT SCALE DRAWING		DWG No.				
CHECKED	C.S.TIONG		22/01/20				TTA003				
APPROVED	H.SIDDIQUEY		10/06/20		A3		SCALE 1:2				
								SHEET 3 OF 4		REVISION 12	

	1	2	3	4	5	6	7	8	
A	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	A
	1	AT5/860	TIMING BELT	1	31	SCHS5x20	SOCKET COUNTERSUNK HEAD SCREW - M5x20 (164119/10SCs)	19	
	2	B4B001	B4B-XH-A	4	32	SCHS5x25	SOCKET COUNTERSUNK HEAD SCREW - M5x25 (164119/10SCs)	4	
	3	BC001	BEARING CAP	1	33	SH001	MAIN SHAFT	1	
	4	BH001	BEARING HOUSING - BOTTOM	1	34	SHCS3x16	SOCKET HEAD CAP SCREW - M3x16 (164119/10SC)	2	
	5	BH002	BEARING HOUSING - LID	1	35	SHCS3x25	SOCKET HEAD CAP SCREW - M3x25 (164119/10SC)	6	
B	6	BP001	BASE PLATE	1	36	SHCS3x8	SOCKET HEAD CAP SCREW - M3x8 (164119/10SC)	1	B
	7	CB001	CONVERTER BOX	1	37	SHCS5x10	SOCKET HEAD CAP SCREW - M5x10 (164119/10SC)	8	
	8	CB002	CONVERTER BOX COVER	1	38	SHCS5x15	SOCKET HEAD CAP SCREW - M5x15 (164119/10SC)	1	
	9	CON001	AC-DC CONVERTER - RS 644-7067	1	39	SHCS5x20	SOCKET HEAD CAP SCREW - M5x20 (164119/10SC)	4	
	10	CP001	CENTRE PILLAR	4	40	SHSS3x5	SOCKET HEAD SET SCREW - M3x5 (164119/10SS)	1	
	11	DP3x20	DOWEL PIN - M3x20 (164119/10PiDm)	3	41	SM001	STEPPER MOTOR - RS 535-0445	1	C
	12	DP4x40	DOWEL PIN - M4x40	1	42	SN3	STEEL NUT - M3	13	
C	13	EB001	ELECTRONIC BOX	1	43	SN5	STEEL NUT - M5	14	
	14	EB002	ARDUINO UNO	1	44	SP001	SPACER - MAIN SHAFT 5mm	1	
	15	EB003	ARDUINO PROTO SHIELD R3	1	45	SP002	SPACER - MAIN SHAFT 10mm	1	
	16	EB004	HC-05-01	1	46	SP003	SPACER - IDLER	1	
	17	EB005	ARDUINO DRIVER A4988	1	47	SW3	STEEL WASHER - M3	14	
	18	EC001	ELECTRONICS COVER	1	48	SW5	STEEL WASHER - M5	21	
	19	HDL001	HANDLE - RS 456-551	2	49	SW6	STEEL WASHER - M6	1	D
	20	IB001	IDLER BEARING - 625-2RS1	2	50	TC001	TRANSMISSION COVER - SIDE	2	
	21	IEC001	IEC CONNECTOR - RS 867-7295	1	51	TC002	TRANSMISSION COVER - TOP	1	
	22	IP001	INTERMEDIATE PLATFORM	1	52	TC003	TRANSMISSION COVER - MOTOR	1	
D	23	IS001	IDLER SHAFT	1	53	TC004	TRANSMISSION COVER - PULLEY	1	
	24	MP001	MOTOR PILLAR	4	54	TP001	TURNTABLE PULLEY - 80ABT 5-15	1	
	25	MP001	MOTOR PULLEY - 20ABT 5-15	1	55	TT001	TURNTABLE	1	
	26	MS001	MOTOR SUPPORT PLATE	1					
	28	SB001	SHAFT BEARING - 61801-2RS1	2					
E	29	SCHS3x12	SOCKET COUNTERSUNK HEAD SCREW - M3x12 (164119/10SCs)	2					
	30	SCHS3x8	SOCKET COUNTERSUNK HEAD SCREW - M3x8 (164119/10SCs)	3					
F									
<div><div><div><div><div>TOLERANCES</div><div>X = 0.5 X.X = 0.1 X.XX = 0.02</div></div><div><div>ANGULAR 1</div><div>SURFACE FINISH MACHINED FACES</div><div>Ra 6.3</div></div></div><div><div>THIRD ANGLE PROJECTION</div><div></div></div><div><div>MATERIAL:</div><div>ALL DIMENSIONS ARE IN MILLIMETRES</div><div>DO NOT SCALE DRAWING</div><div>A3</div></div><div><div>TITLE: TURNTABLE SUB-ASSEMBLY BOM</div><div>DWG No.  TTA004</div></div><div><div>Imperial College London</div><div>Department of Mechanical Engineering</div><div>SHEET 4 OF 4   REVISION 12</div></div></div></div>									