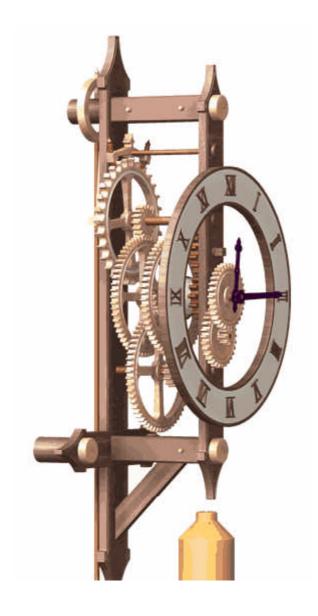
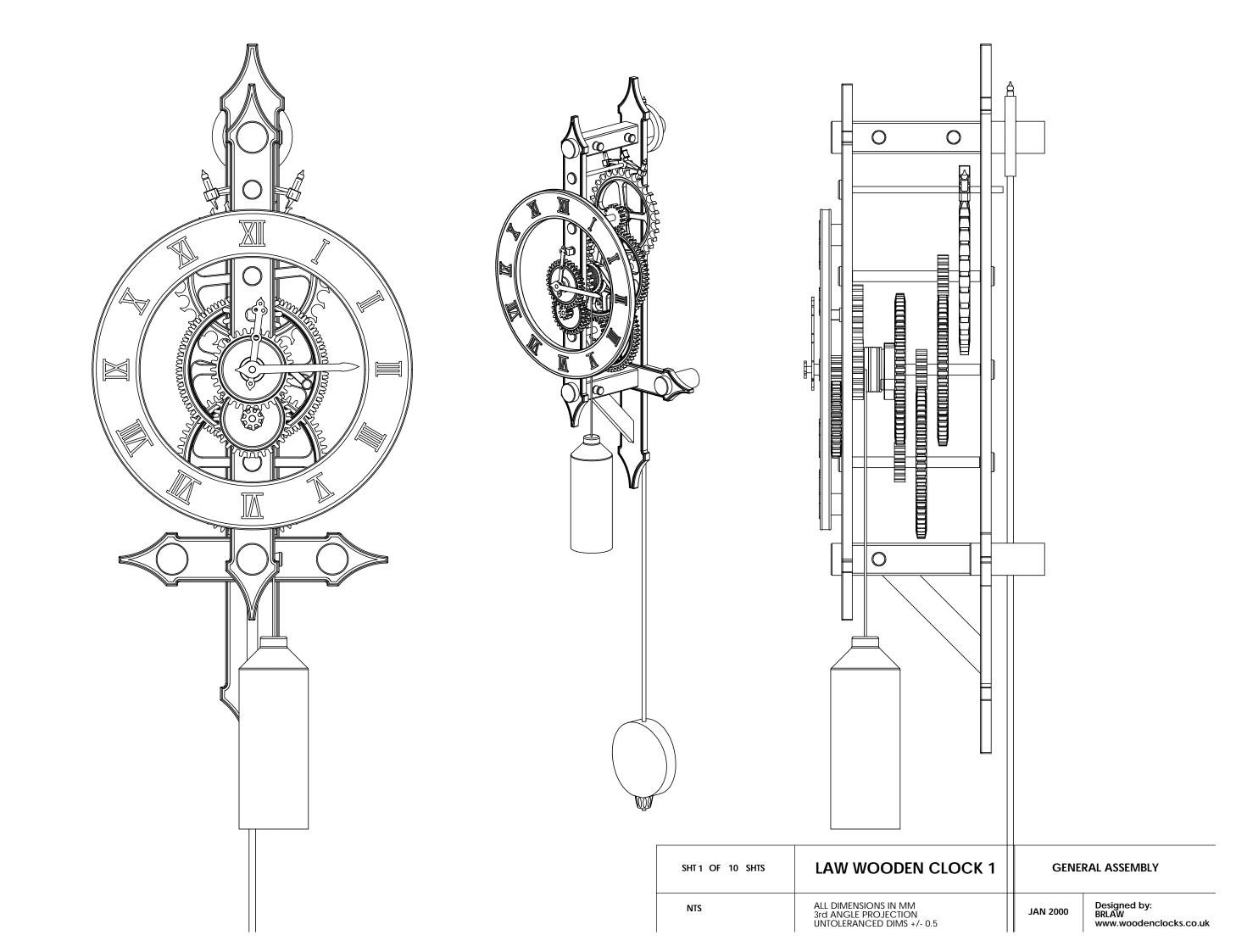
Woodenclocks Clock1

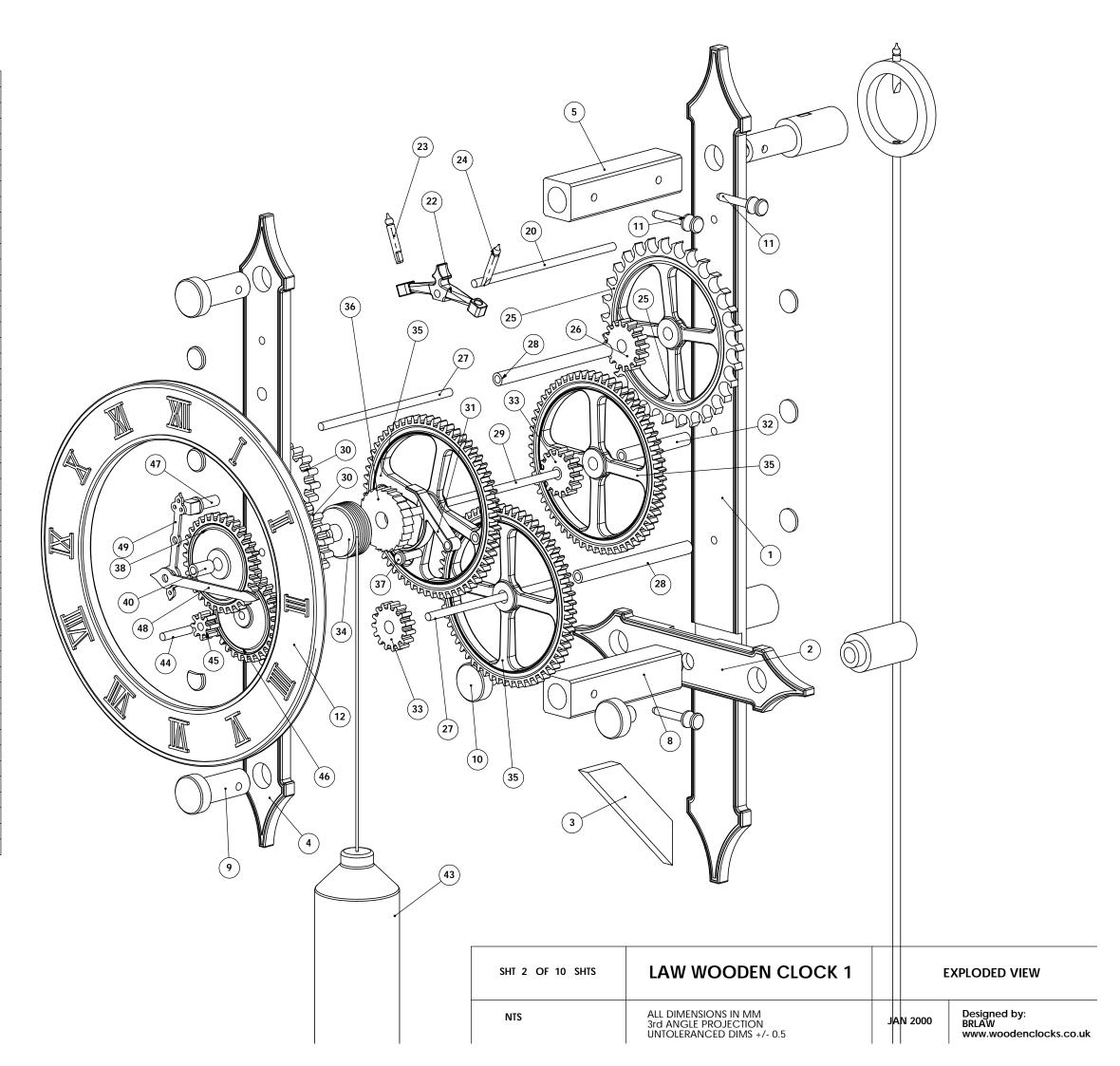


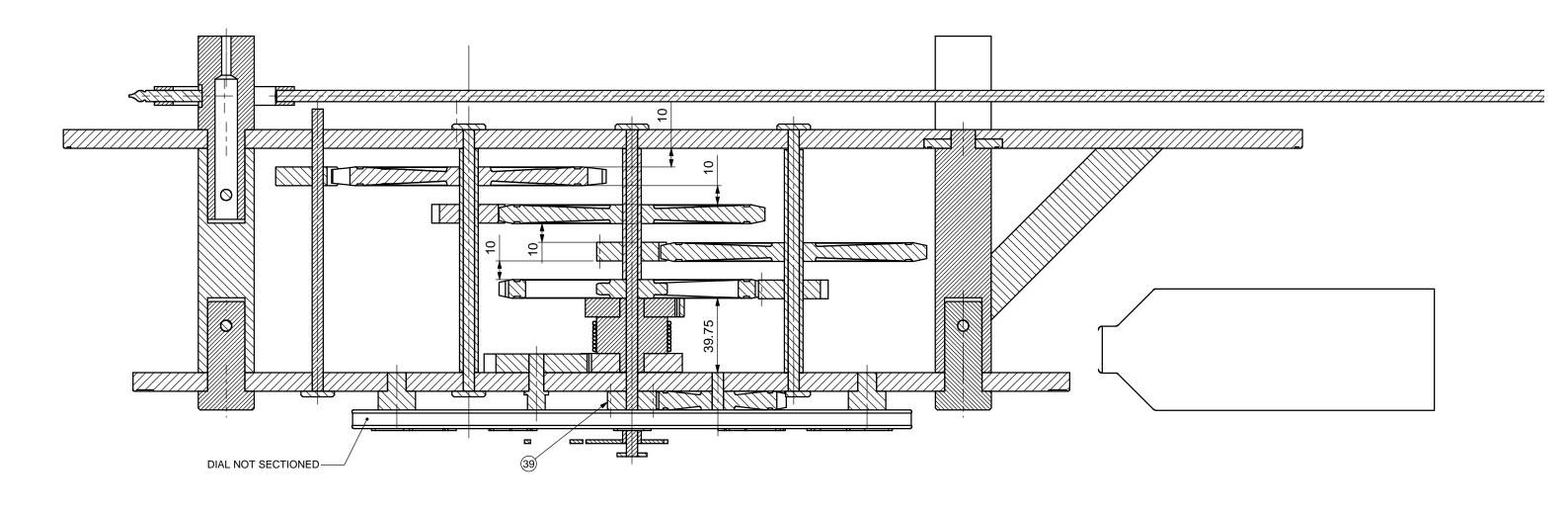
The drawings on the following pages contain plans to build the wooden clock shown above.

For further information and more detailed rendered images visit www.woodenclocks.co.uk

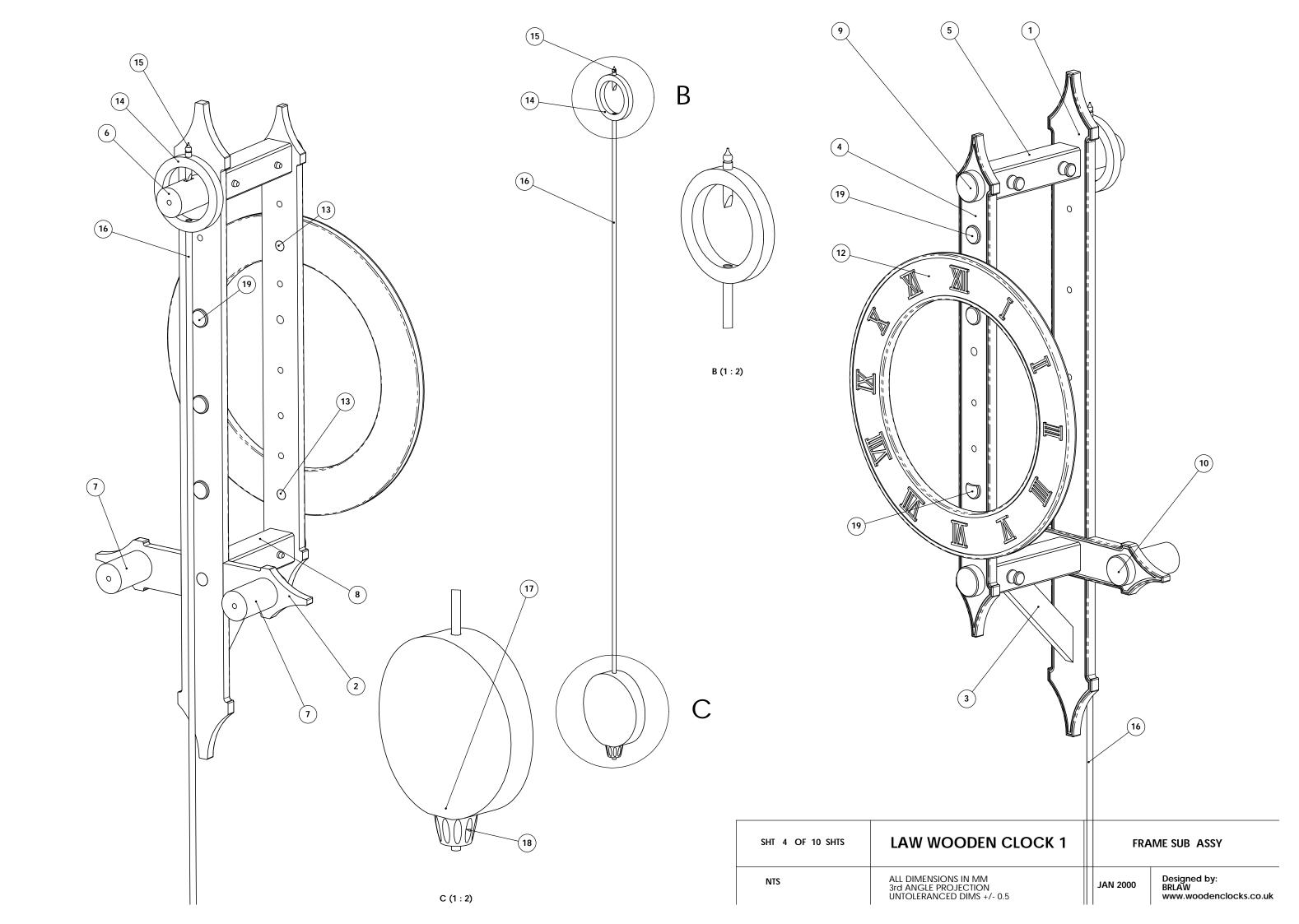


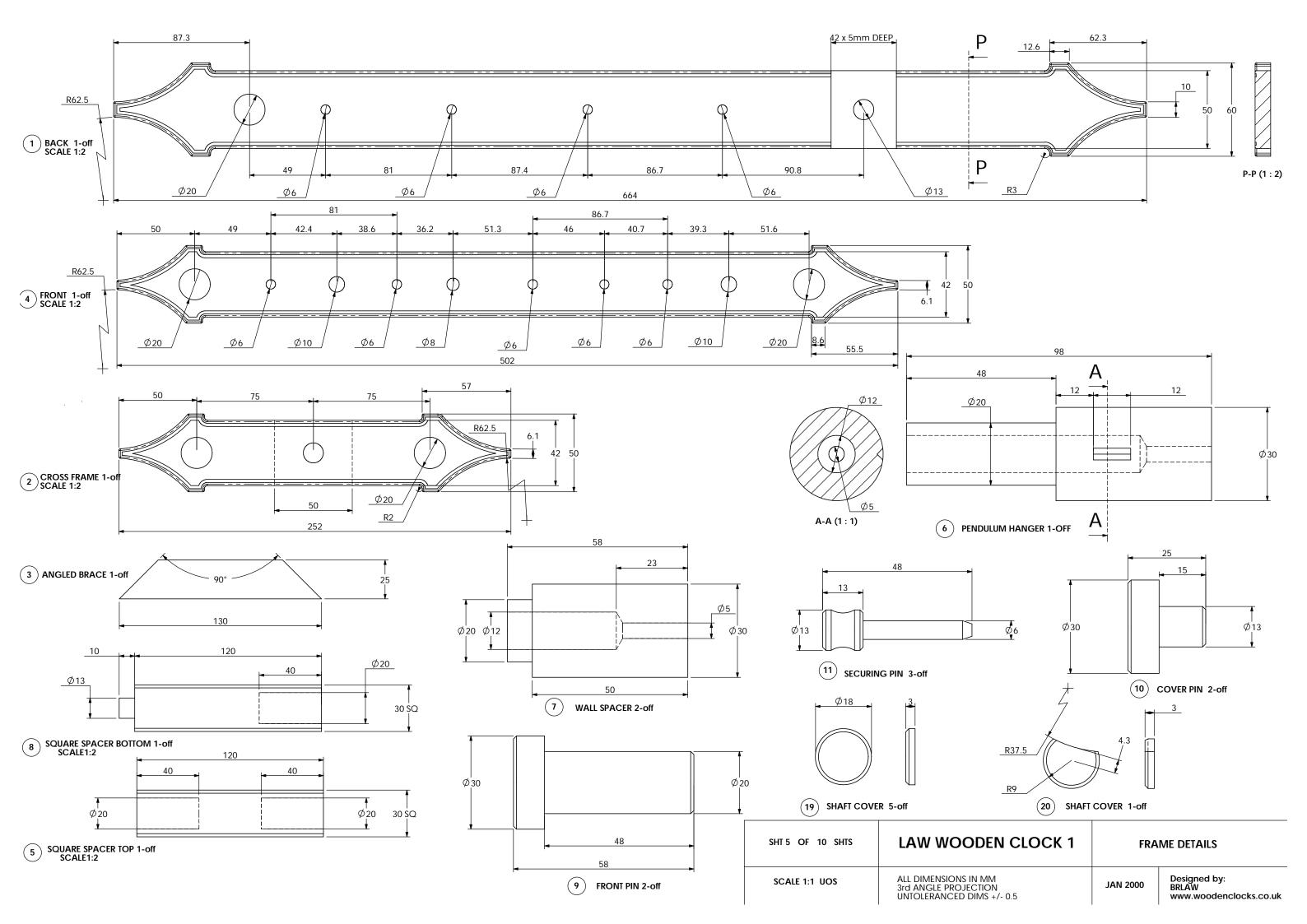
			.
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	back	
2	1	cross	
3	1	Angled brace	
4	1	front	
5	1	squarespacer top	
6	1	Pendulum hanger	
7	2	Wall spacer	
8	1	squarespacer bottom	
9		Front pin	
10	2	cover pin	
11		Securing pin	
12		Clock dial	
13	2	Dial spacer	
14		Pendulum head	
15	1	Pendulum pivot	
16		Pendulum rod	
17	1	Pendulum bob	
18	1	Pendulum nut	
19	6	Shaft cover	
20	1	Shaft151	
21		yoke	
22		escape	
23		Pallet2	
24		Pallet1	
25		Timing	
26		16teeth	
27		Shaft140	
28		Sleeve119	
29		Shaft175	
30		15teeth_1.5	
31		Pawl	
32		Sleeve70	
33		15teeth	
34		drum	
35		60teeth	
36		Ratchet	
37		Pawl pin	
38		32teeth	
39		10teeth	
40	1		
41		ropering	
42		rope	
43		Weight	
44		shaft30	
45		8teeth	
46		30teeth	
47		Key shaft	
48		Minute hand	
49	1		
	<u> </u>	1	1

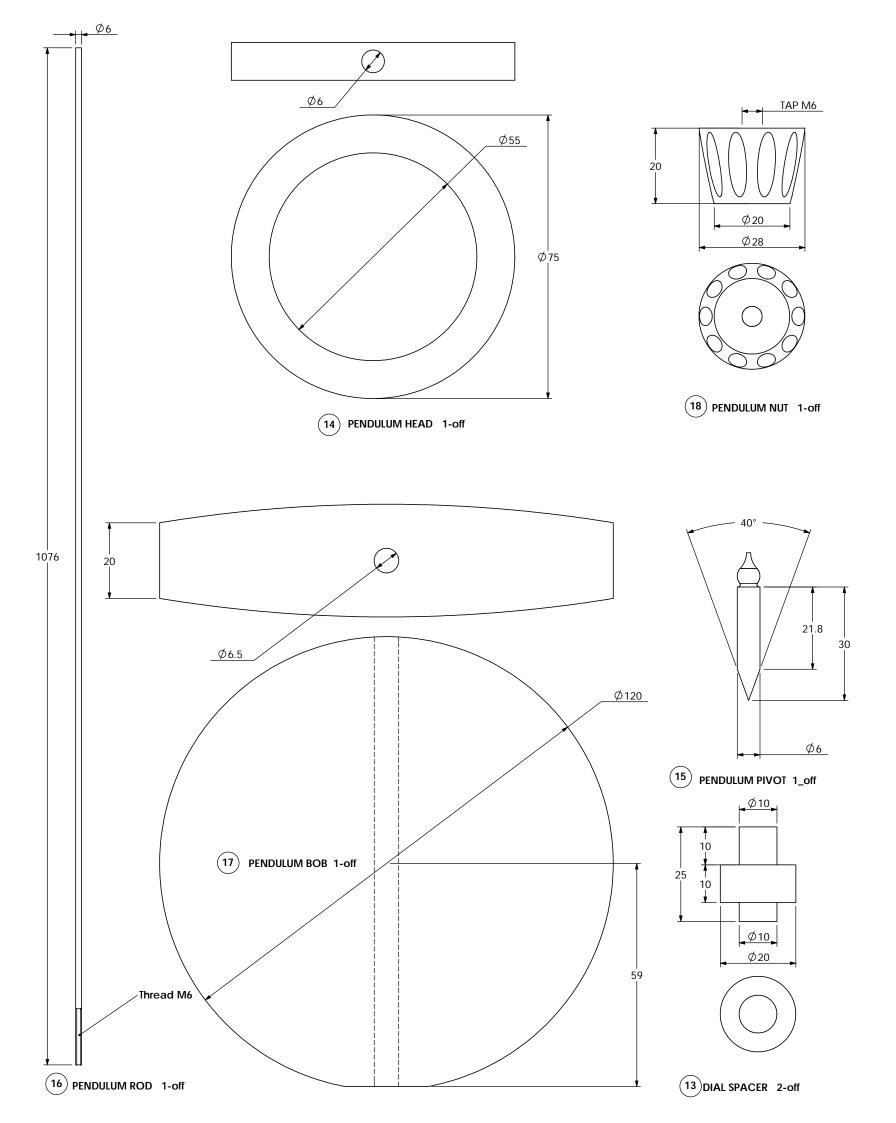


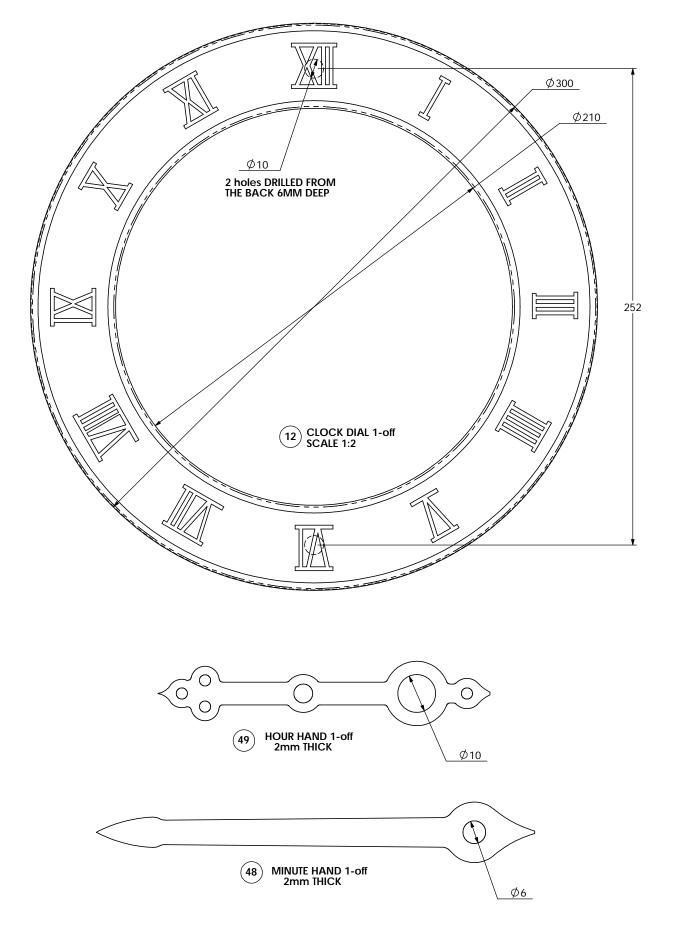


SHT 3 OF 10 SHTS	LAW WOODEN CLOCK 1	CENTRELINE CROSS SECTION	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2000	Designed by: BRLAW www.woodenclocks.co.uk

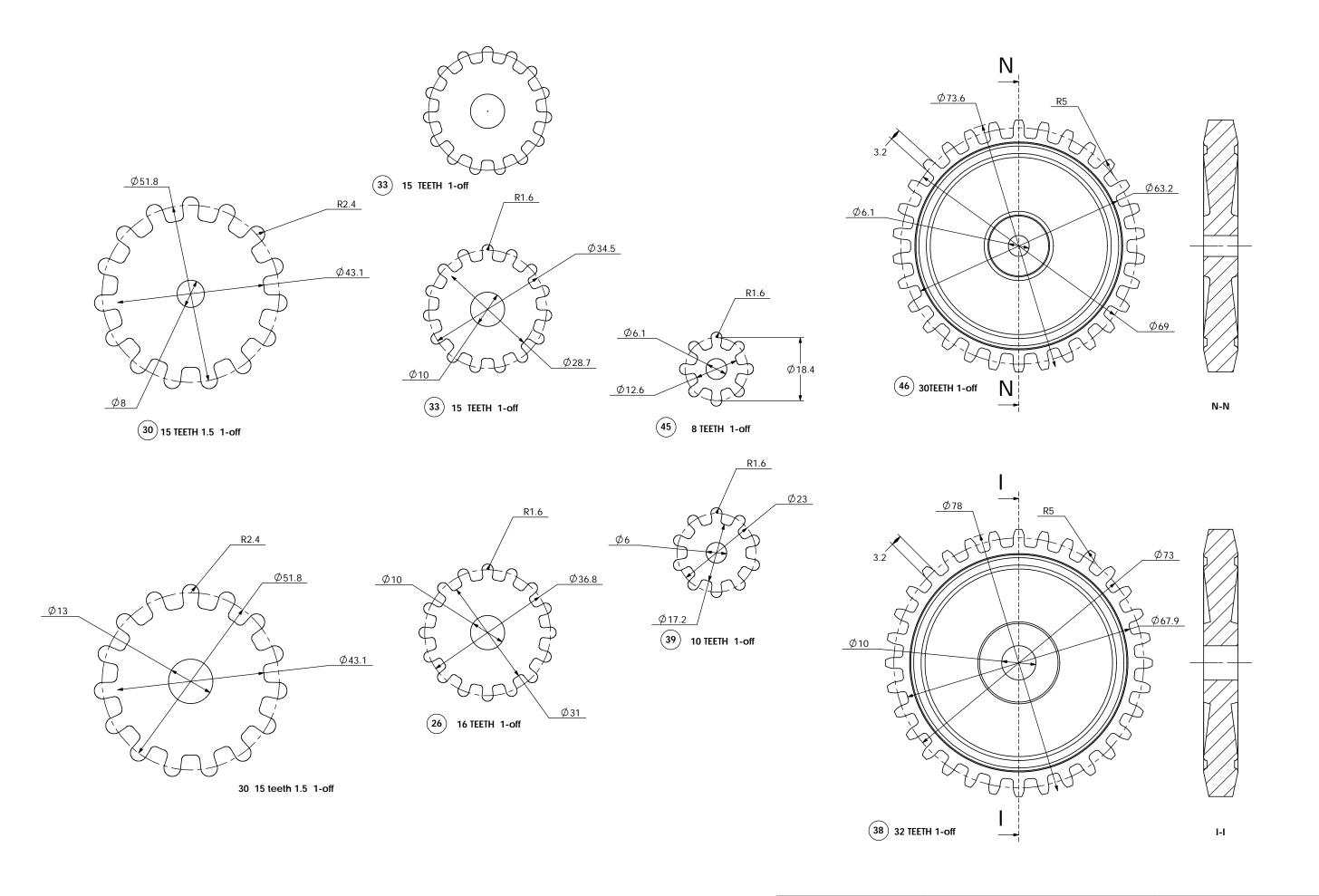




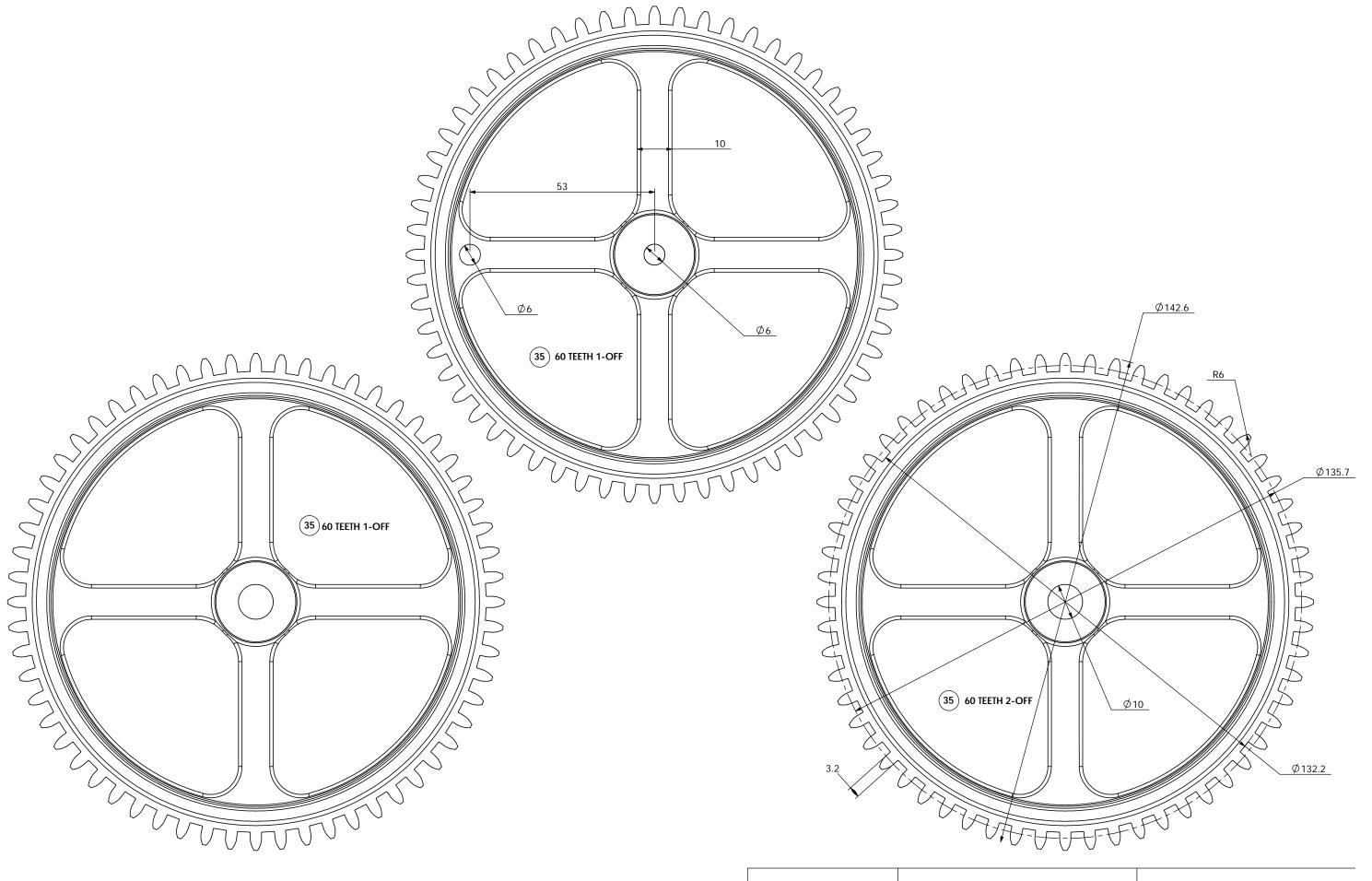




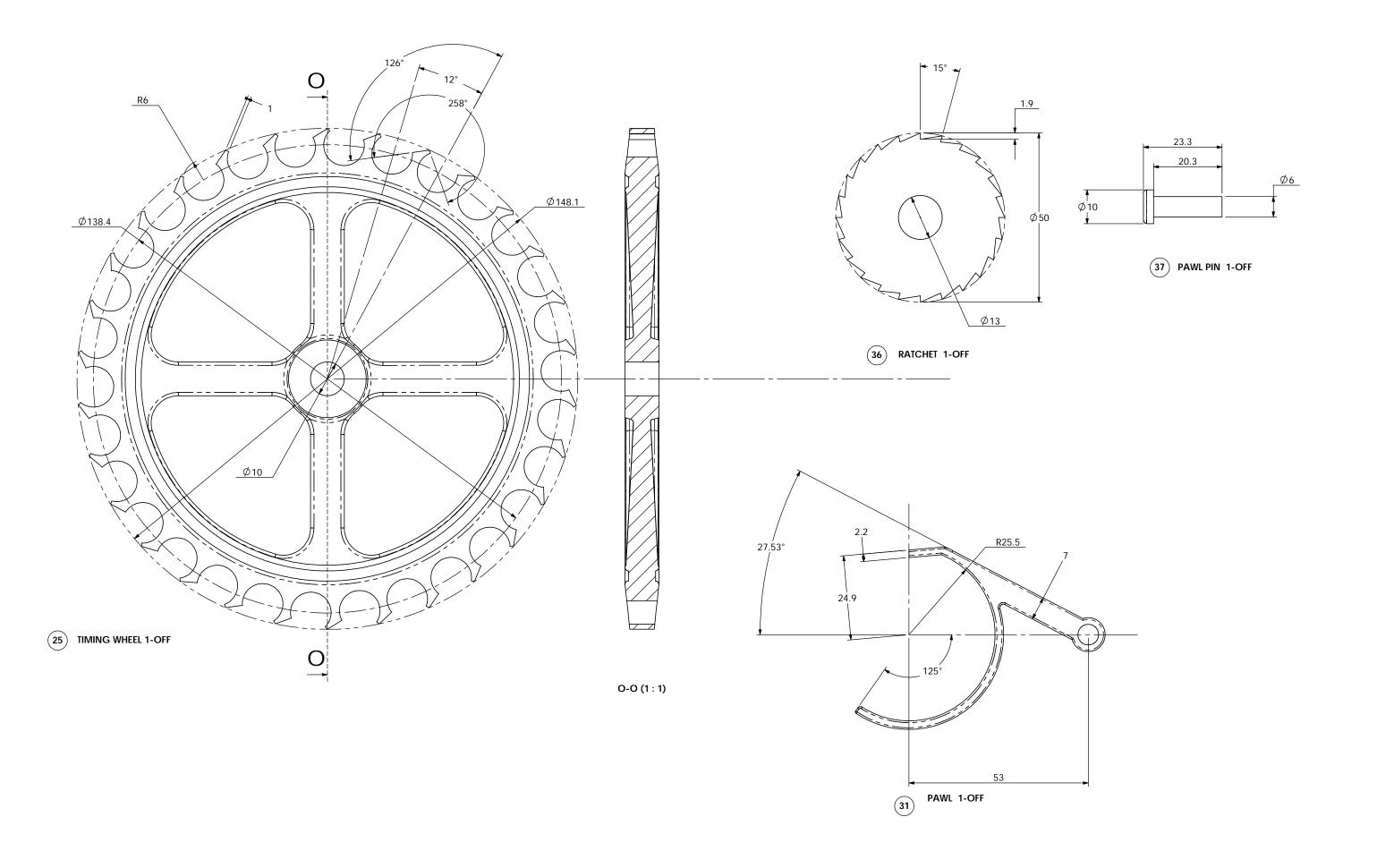
SHT 6 OF 10 SHTS	LAW WOODEN CLOCK 1	DIAL AND PENDULUM DETAILS	
SCALE 1:1 UOS	ALL DIMENSIONS IN MM 3rd Angle Projection Untoleranced DIMS +/- 0.5	JAN 2000	Designed by: BRLAW www.woodenclocks.co.uk



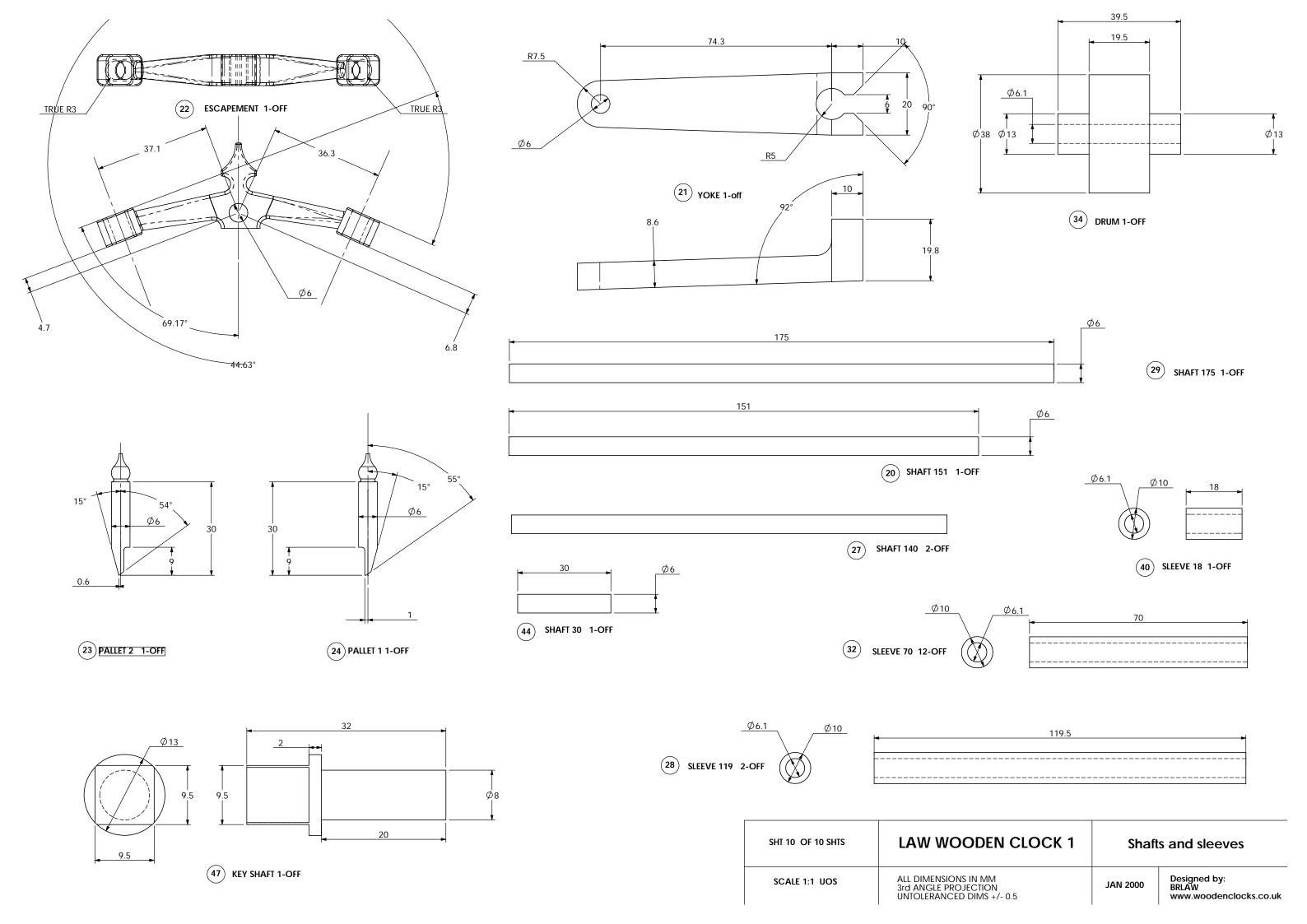
SHT 7 OF 10 SHTS	LAW WOODEN CLOCK 1	GEARS	
SCALE 1:1	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2000	Designed by: BRLAW www.woodenclocks.co.uk



SHT 8 OF 10 SHTS	LAW WOODEN CLOCK 1	GEARS LARGE	
SCALE 1:1 UOS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2000	Designed by: BRLAW www.woodenclocks.co.uk



SHT 9 OF 10 SHTS	LAW WOODEN CLOCK 1	TIMING WHEEL AND RATCHET	
SCALE 1:1 UOS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2000	Designed by: BRLAW www.woodenclocks.co.uk



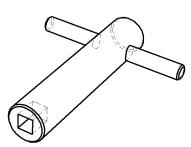
Woodenclock Clock I

Notes

- 1. Use close-grained timber such as Beech planed down to a thickness of 1 10 mm for all components unless otherwise stated.
- 2. All shafts for spindles should be made from 6 mm diameter bar.
- 3. Any suitable material can be used for the weight. The mass of the weight will need to be established by experiment, but a good starting point would be 6 lbs.
- 4. Details of the dial numerals are shown for guidance only, the actual form of the numerals is left to your own discretion. They can be applied by painting or as relief numerals cut from thin sheet.
- 5. The hands are again given for guidance only, although in this instance they are drawn to size so that you can copy these if you wish. They should in any event be cut from thin sheet.
- 6. Where the components are drawn to 1:1 scale you can attach the drawing to the timber using a low tack adhesive, and cut around the profiles. Great care should be taken with this approach when cutting the gear teeth because they need to be cut very accurately to avoid problems when assembling the clock
- 7. The frame is held together using 3 pins fitted through holes crossdrilled after assembly.
- 8. Care should be taken to adjust the pallets (23 & 24) relative to the timing wheel. They should operate to allow the timing wheel to move incrementally forward when swinging through a small arc of movement of the pendulum. (<10°).
- 9. The pitch of the gears is controlled by the drilling of the hole centres in the front and back frames. It may help to delay the drilling of these holes in the frames until after the gears are first cut and then linished to size. At this point it would help to mount them on two separate pieces of wood and test there free movement one to the other and measure the centre distance between them, so that the hole centres can be drilled at this dimension rather than the theoretical dimension on the drawing.
- 10. The winder used is not drawn on the plans but a simple 'T' bar with a square hole in the end to engage over the end of the square end of the shaft holding the winding gears.
- 11. The profiling of the larger gears is not necessary to the functioning of the clock, and can be carried out at the discretion of the clock builder.

Fits between components

Loose	Tight	Bond
1 & 20 1 & 7 1 & 29 16 & 17 27 & 28 29 & 32 29 & 35 31 & 37 32 & 29 4 & 20 4 & 27 4 & 29 4 & 44 4 & 47 45 & 4 46 & 4	11 & 5 11 & 8 12 & 13 20 & 21 20 & 22 22 & 23 22 & 24 25 & 28 26 & 28 30 & 34 32 & 33 32 & 34 32 & 35 35 & 37 38 & 40 44 & 4 44 & 45 44 & 46 47 & 30 6 & 5 9 & 5 9 & 8 28 & 35	1 & 19 1 & 2 1 & 3 1 & 8 14 & 15 14 & 16 3 & 8 4 & 13 4 & 19 7 & 2 45 & 46
	- 0 \(\tau \) 00	



Notes	LAW WOODEN CLOCK 1		
SCALE 1:1 UOS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2000	Designed by: BRLAW www.woodenclocks.co.uk