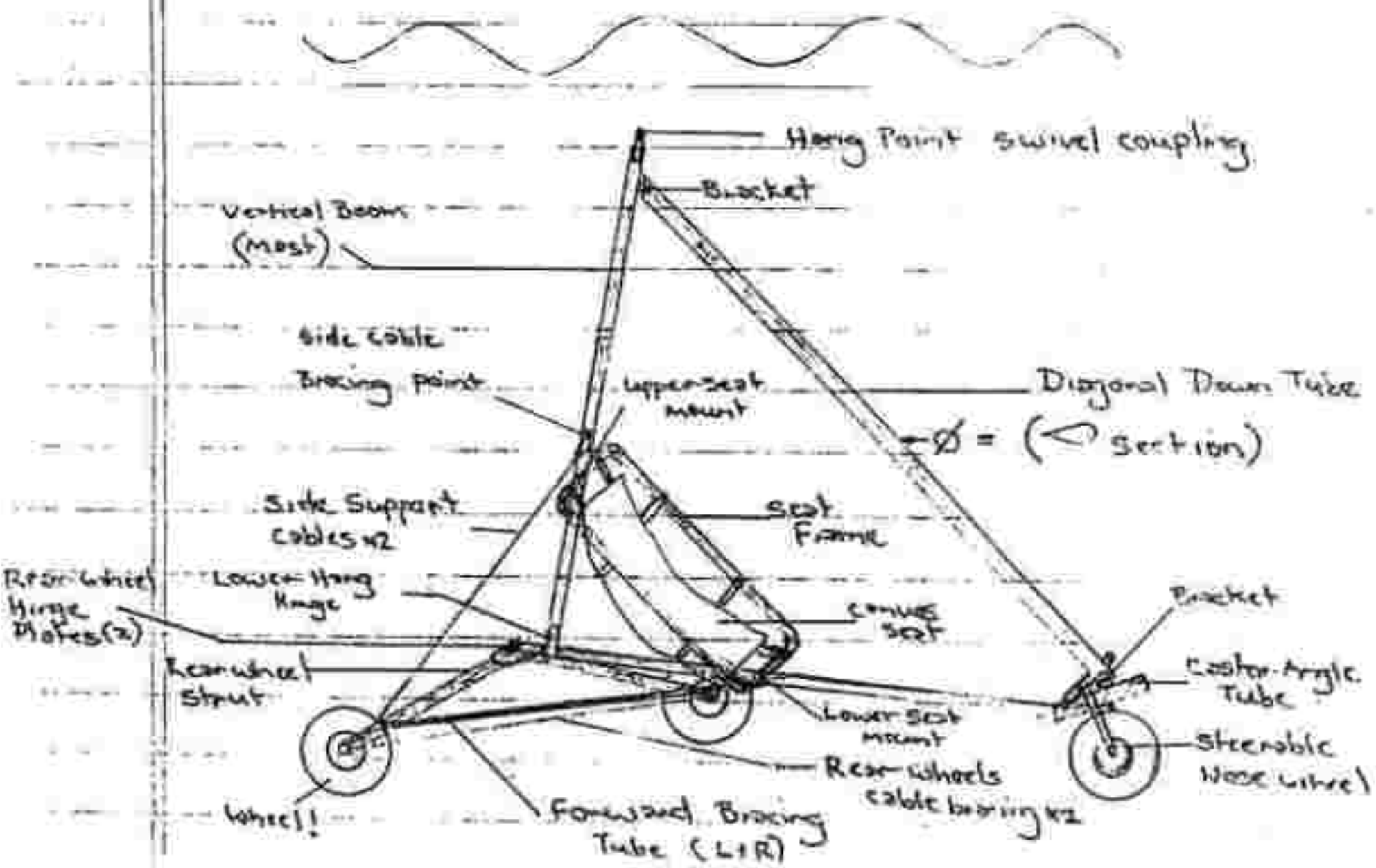
SINGLE SEAT TRIKE

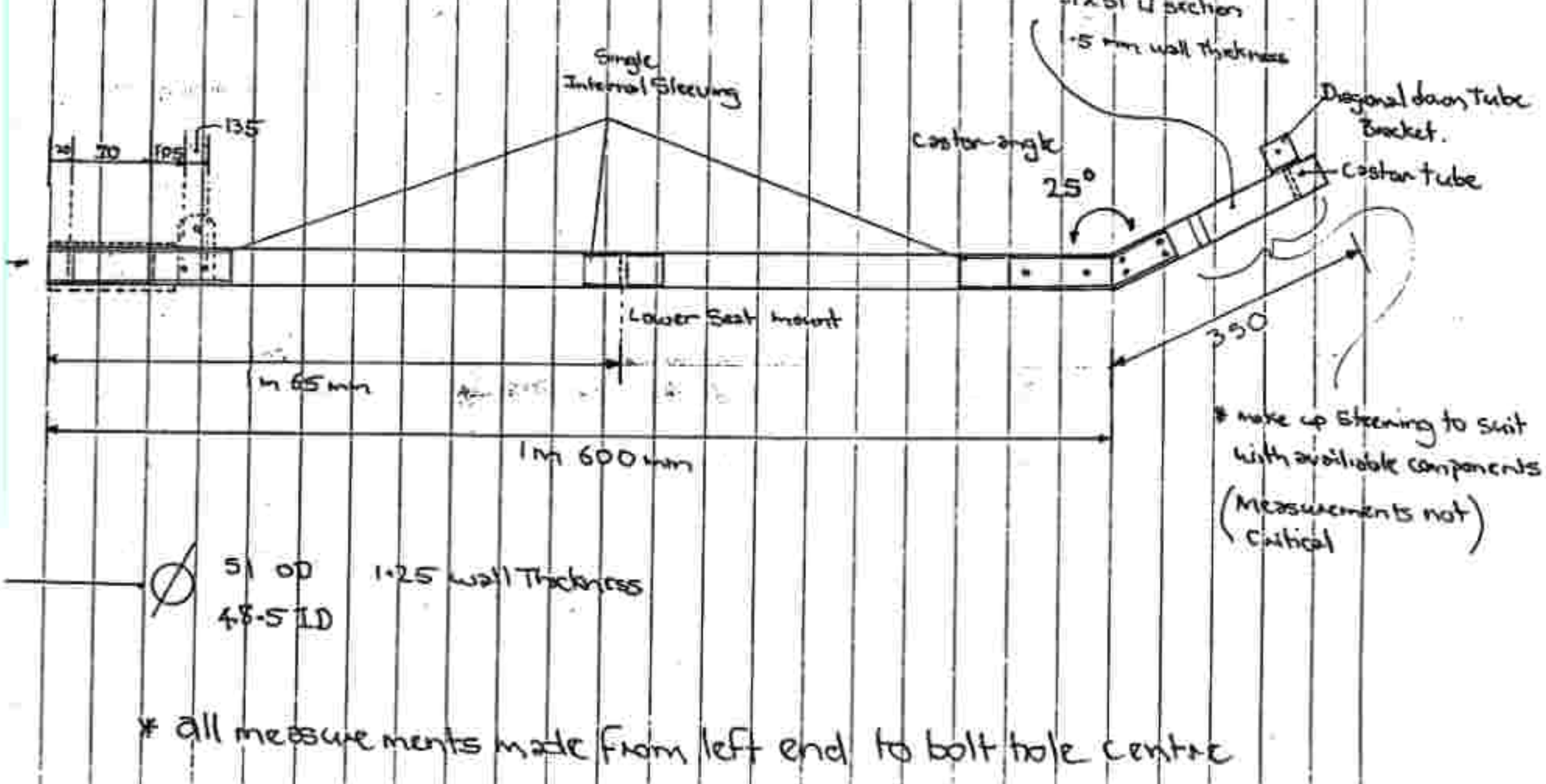
BASIC DESIGN & DIMENSIONS
06.13.91

(1) *Note! Measurements are METRIC all measurements are in Metres (M) & millimetres (mm)
Drawings are NOT to Scale !



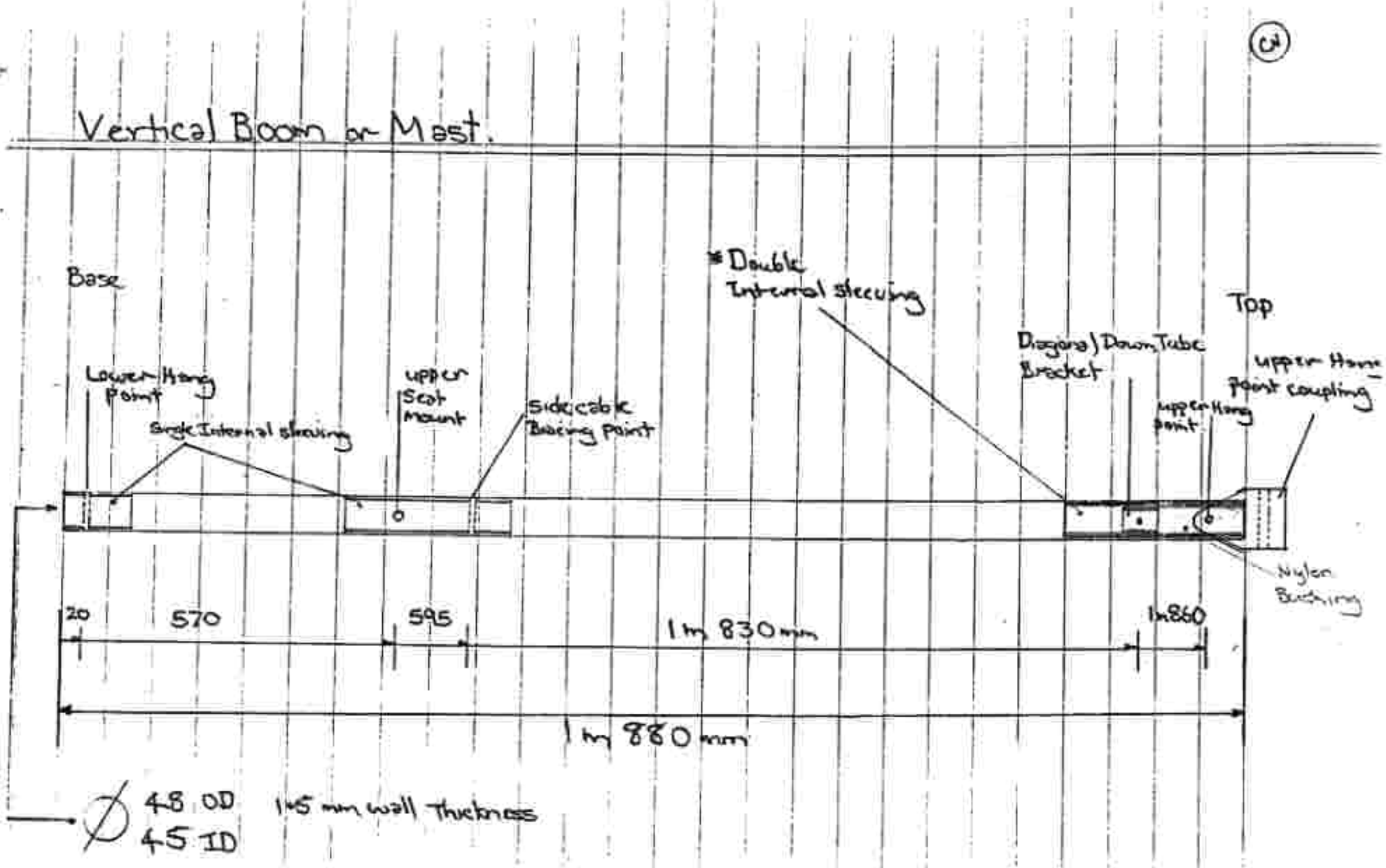
Basic Layout for parts Identification
(Excluding Engine and mountings)

Horizontal Boom



* all measurements made from left end to bolt hole centre

Vertical Boom or Mast.



* all measurements made from left end to Bolthole center

Seat

* Entire Seat has Single Internal Sleeving

Ø 25 OD
21 ID

2mm Wall Thickness

A

990 mm

Lower on (Horizontal Boom)

Upper (on Mast

120

240

120

450 mm

505

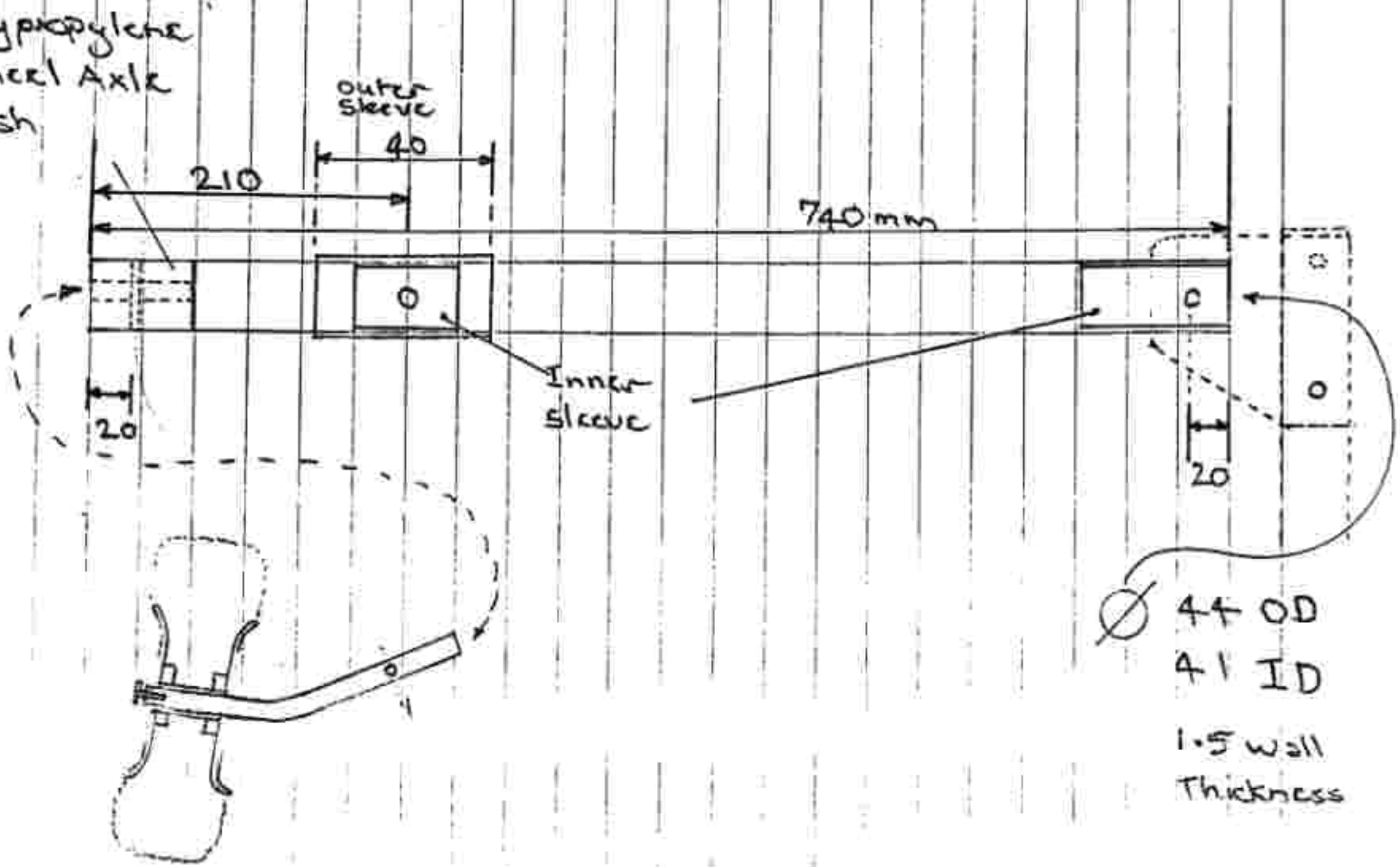
Ø 30 OD
26 ID

2mm Wall Thickness

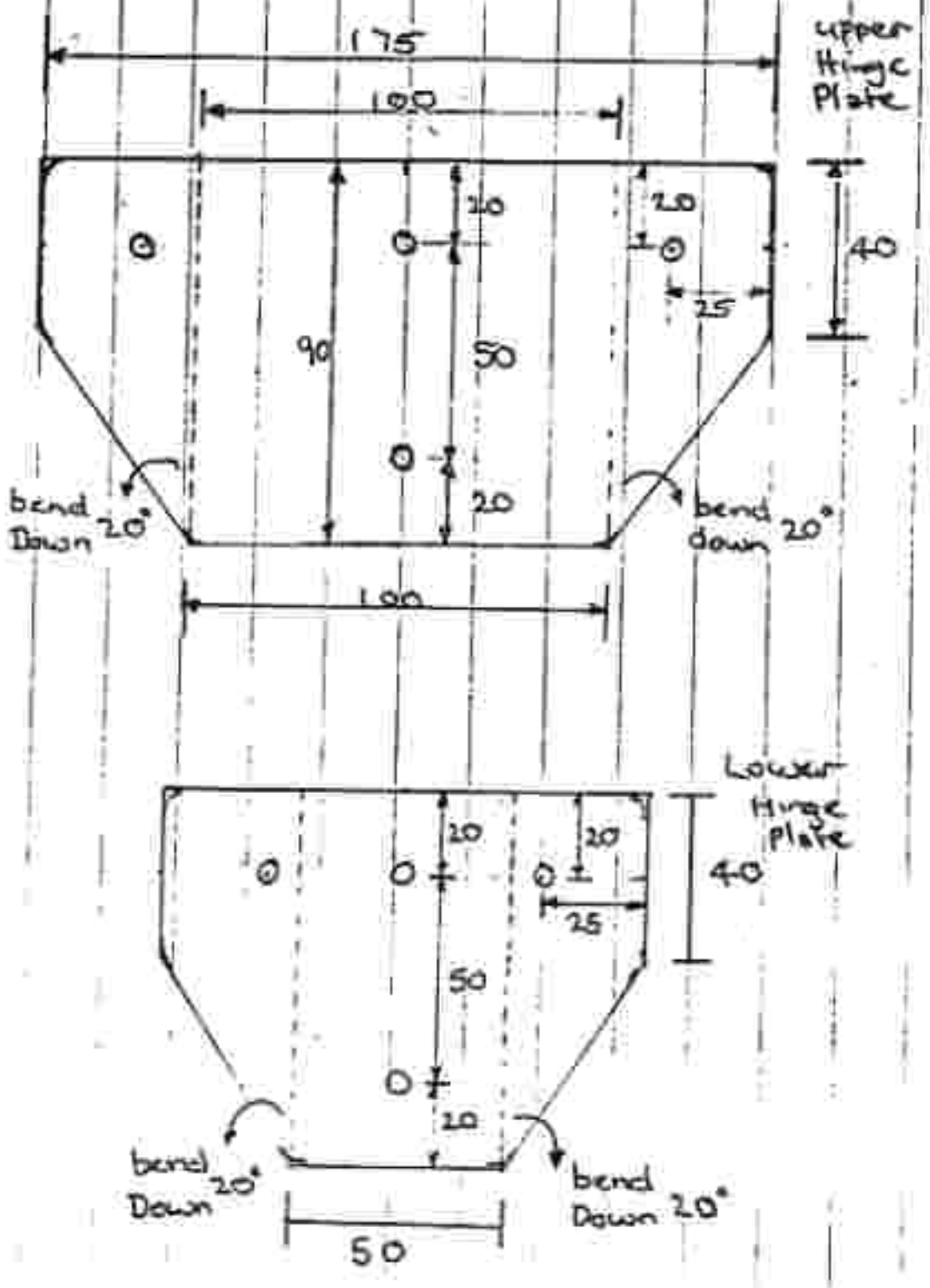
1m 38 mm

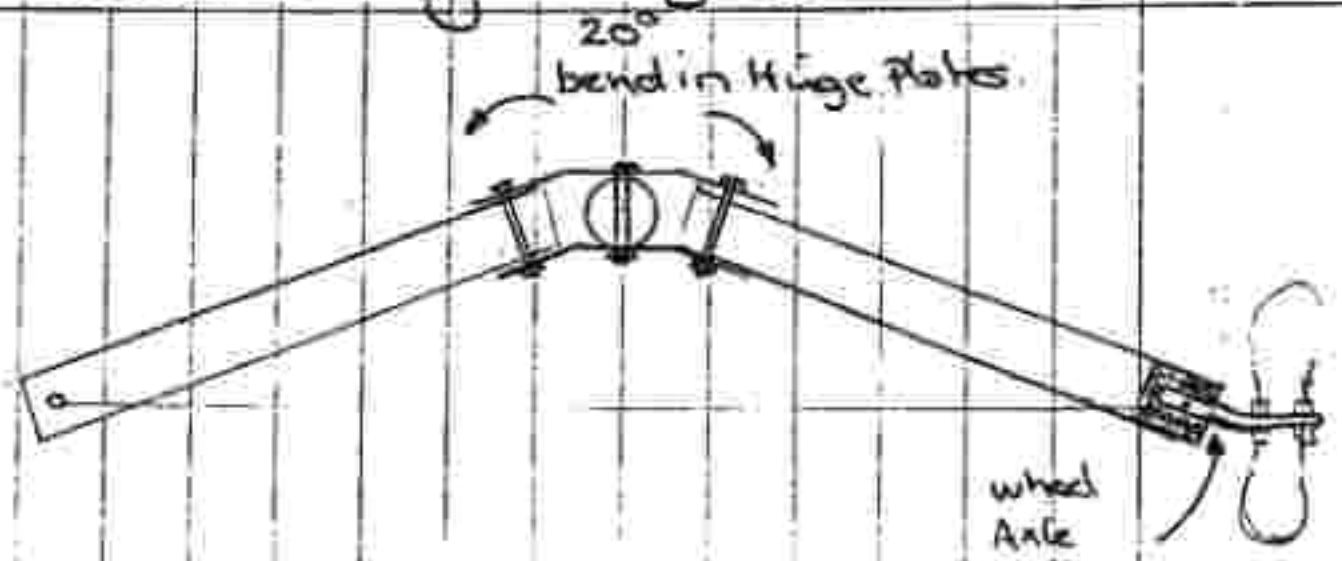
(5)

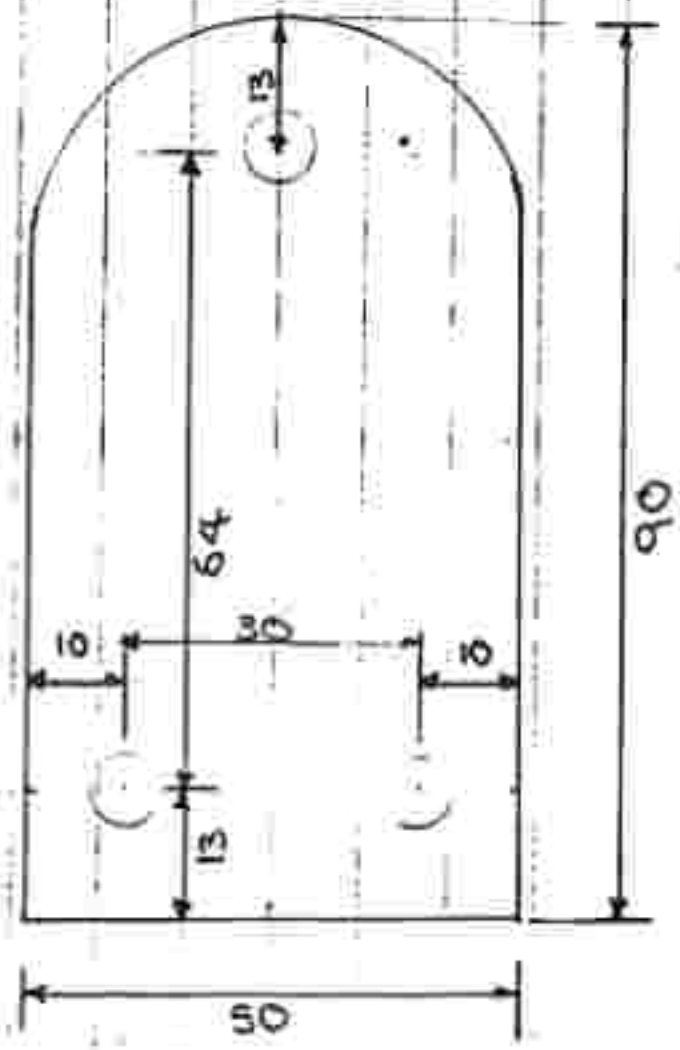
Rear Wheel Strut (x2) Left + Right



Rear Wheel Hinges & Lower Hang Hinges

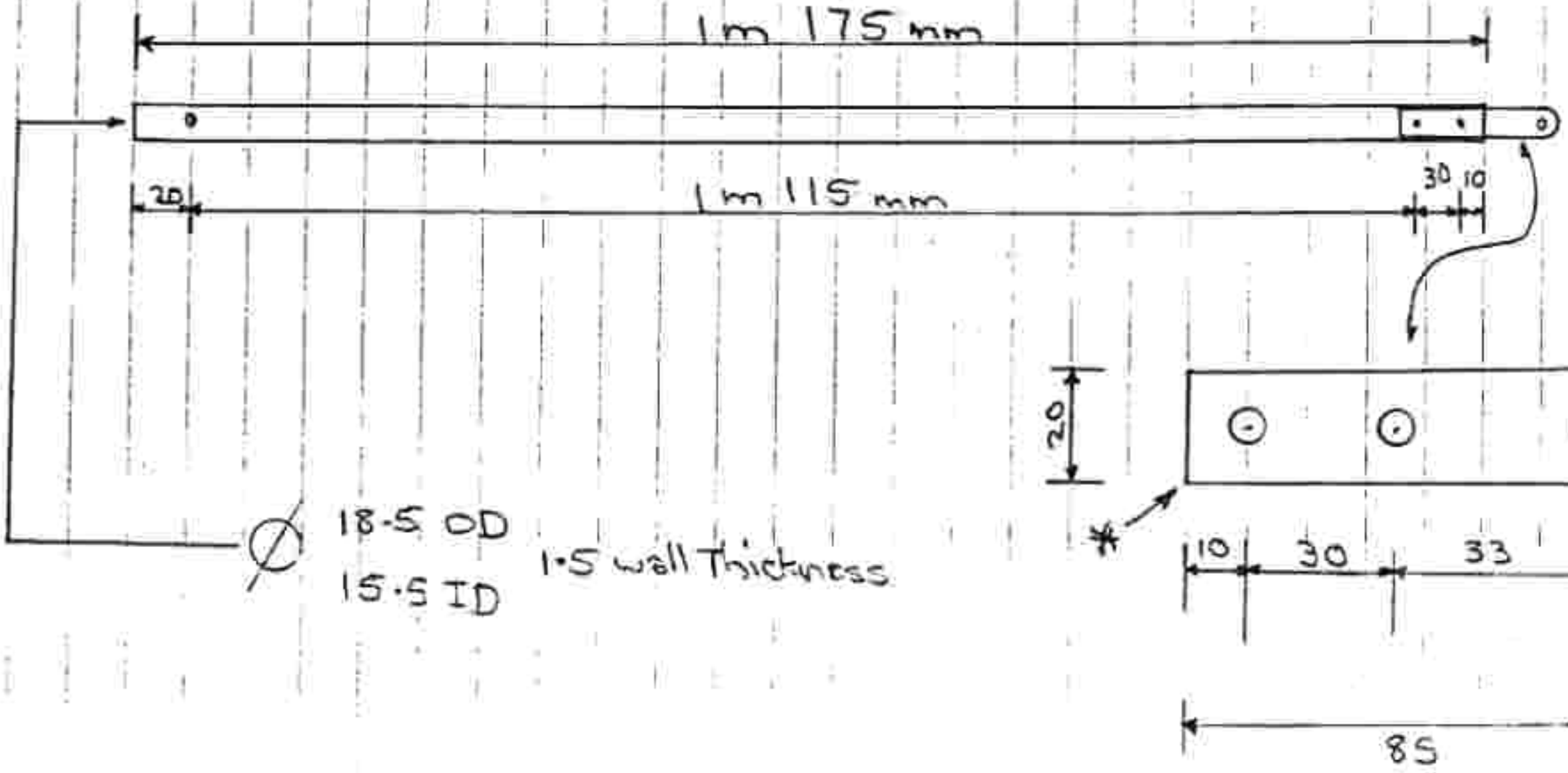






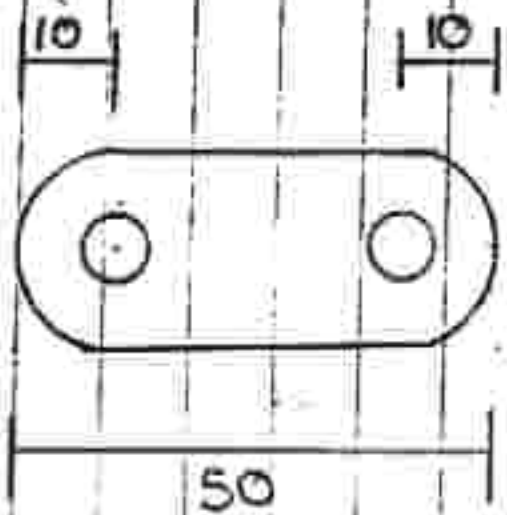
Lower Hang Hinge x 2

Forward Bracing Tube x2 (left & Right)

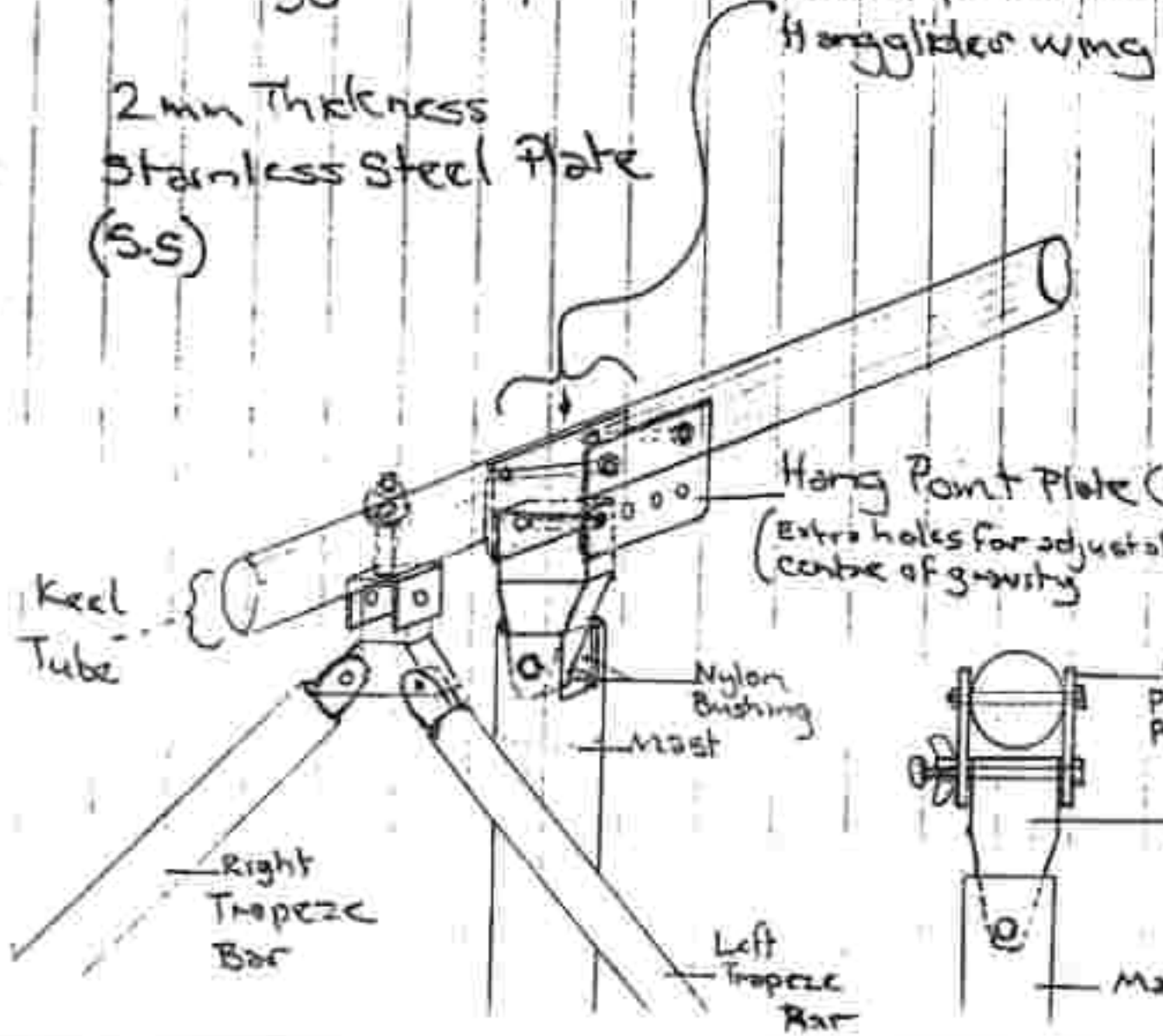


* Thickness = 4 min

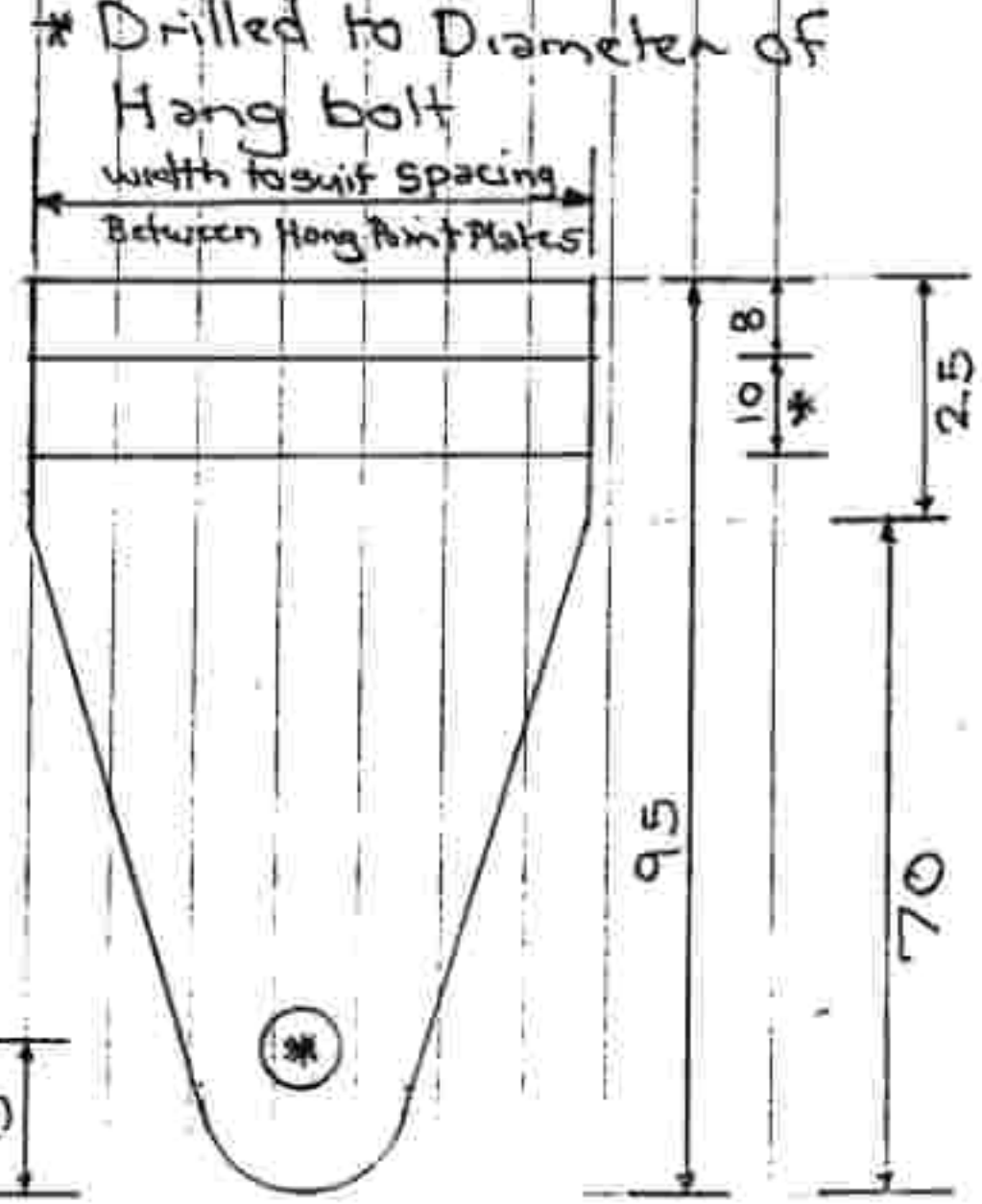
Cable Tangs

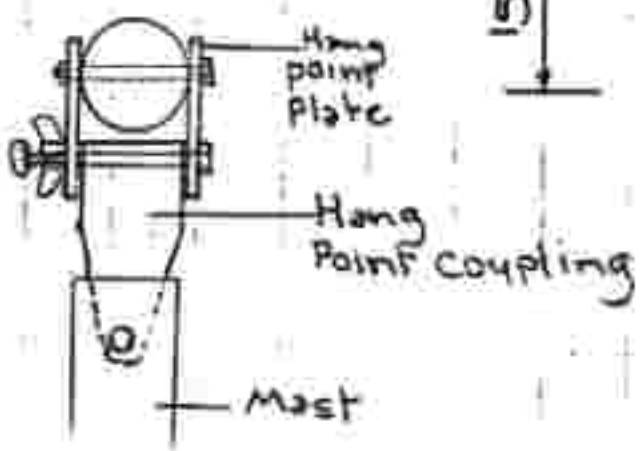


2mm Thickness Stainless Steel Plate (S.S)



Hang Point Coupling

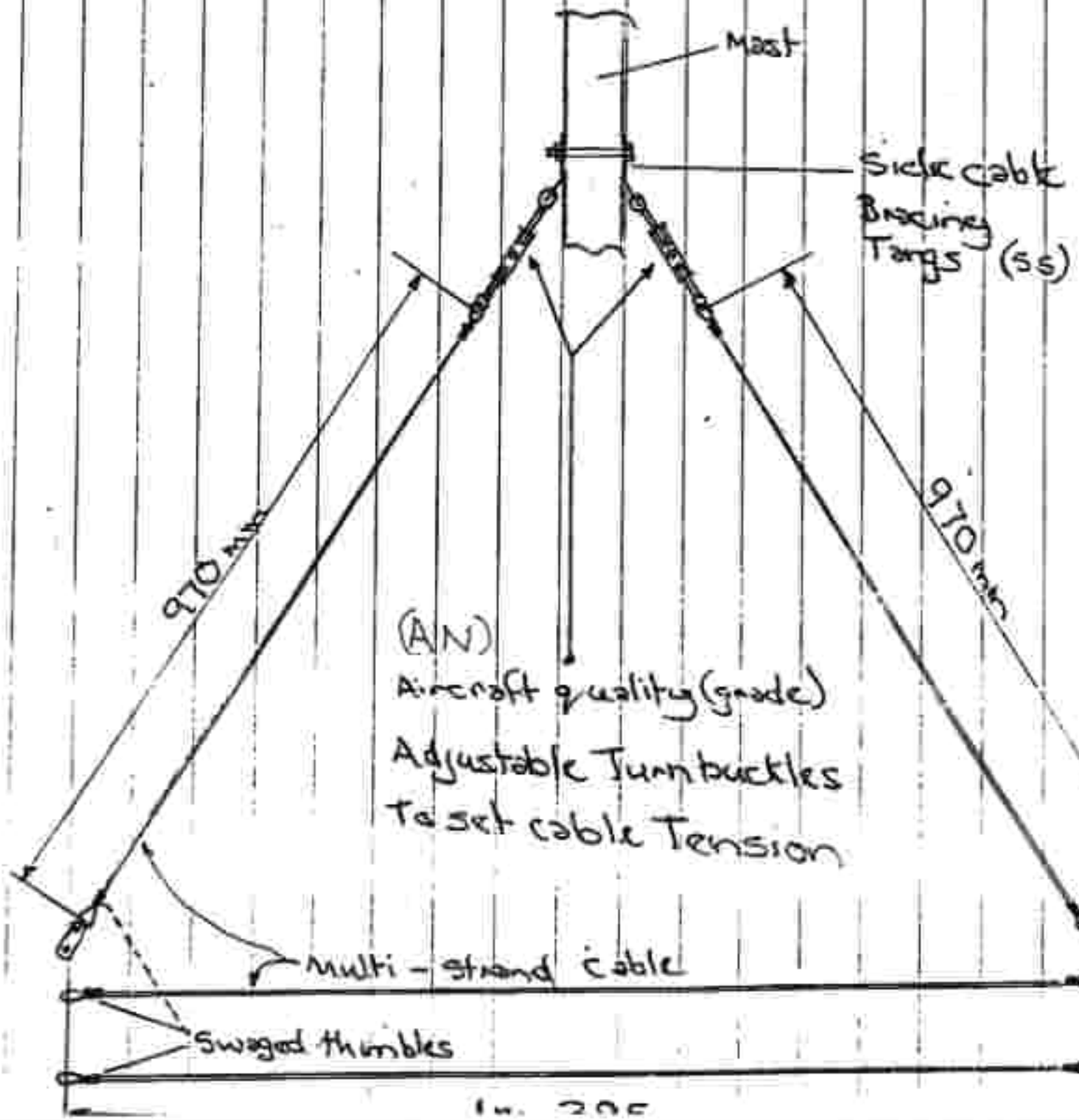


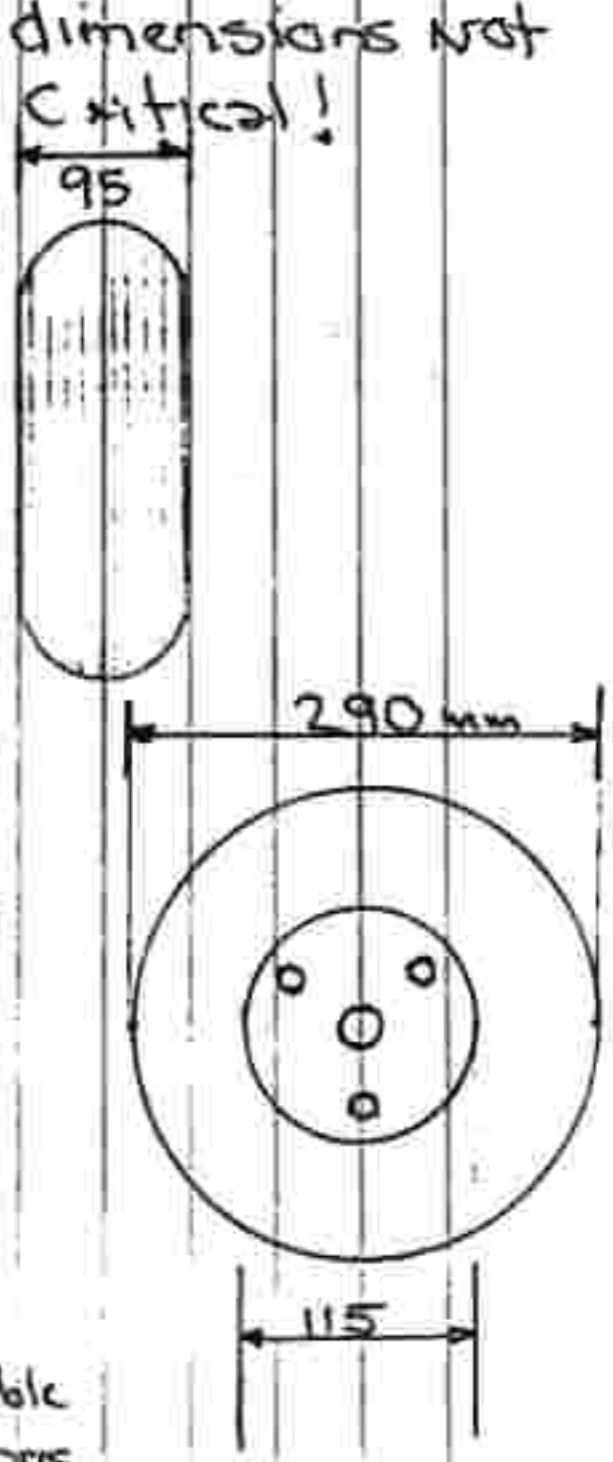


Thickness = 20mm
Solid Aluminium or Mild Steel Plate

Cable Bracings

Wheels x3





Date: Thu, 16 Oct 97 15:22:13 UT

From what you have received, you already have information about the single-seat Trike plans. The plans you have were hurried drawings made on note-paper of all the measurements and sizes of tubes, brackets etc of the single-seat Trike.

As mentioned, the original design for this Trike came from a British hang-gliding magazine published in +/- 1981 / 1982, and was a well-drawn sketch that was part of an advert. This design was seen by Aiden de Gersigny, who is now a co-owner of Solo Wings CC in Durban, South Africa.
Aiden is a fore-most authority on hang-gliding and the building of hang-gliders, and at this time Solo Wings CC is the largest ultralight manufacturer (2-place Trikes) in Africa.

Aiden de Gersigny built the Trike, incorporating parts of the sketch and many of his own ideas which, when complete made it simple to rig and disassemble and for this reason, totally portable. The Trike originally flew with a Koenig 3-cylinder engine and was later up-graded to a Rotax 277 2-stroke single cylinder engine with reduction gearbox and larger propellor.
The hang-glider wing that was matched to the Trike is a Zenith ll ; 165 sq feet ; two-thirds double surface wing. Over the years, this design of Trike has flownsuccessfully with 4 different types of wings.

The single-seat Trike has given excellent performance and seldom has been seen a more simple, practical or robust design from a construction or flying stand-point.

I will not take any responsibility for the safety or successful flight of anyone who chooses to build a single-seat Trike from these drawings.

The engine on this trike is a 277 Rotax and has been ready to fly since this spring. i don't think it has been flown since the end of the 80's. the plans call for mostly round tubing, but square should work just as well and the bends on the seat frame could be replaced with square corners.

The suspension is the European design that American pilots don't seem to care for. all i've been able to get for an answer on that is a whine that this design is too stiff on the ground.

I anyone from Windlass is mad at us because of these drawings i apologize in advance.

john.

10/03/97