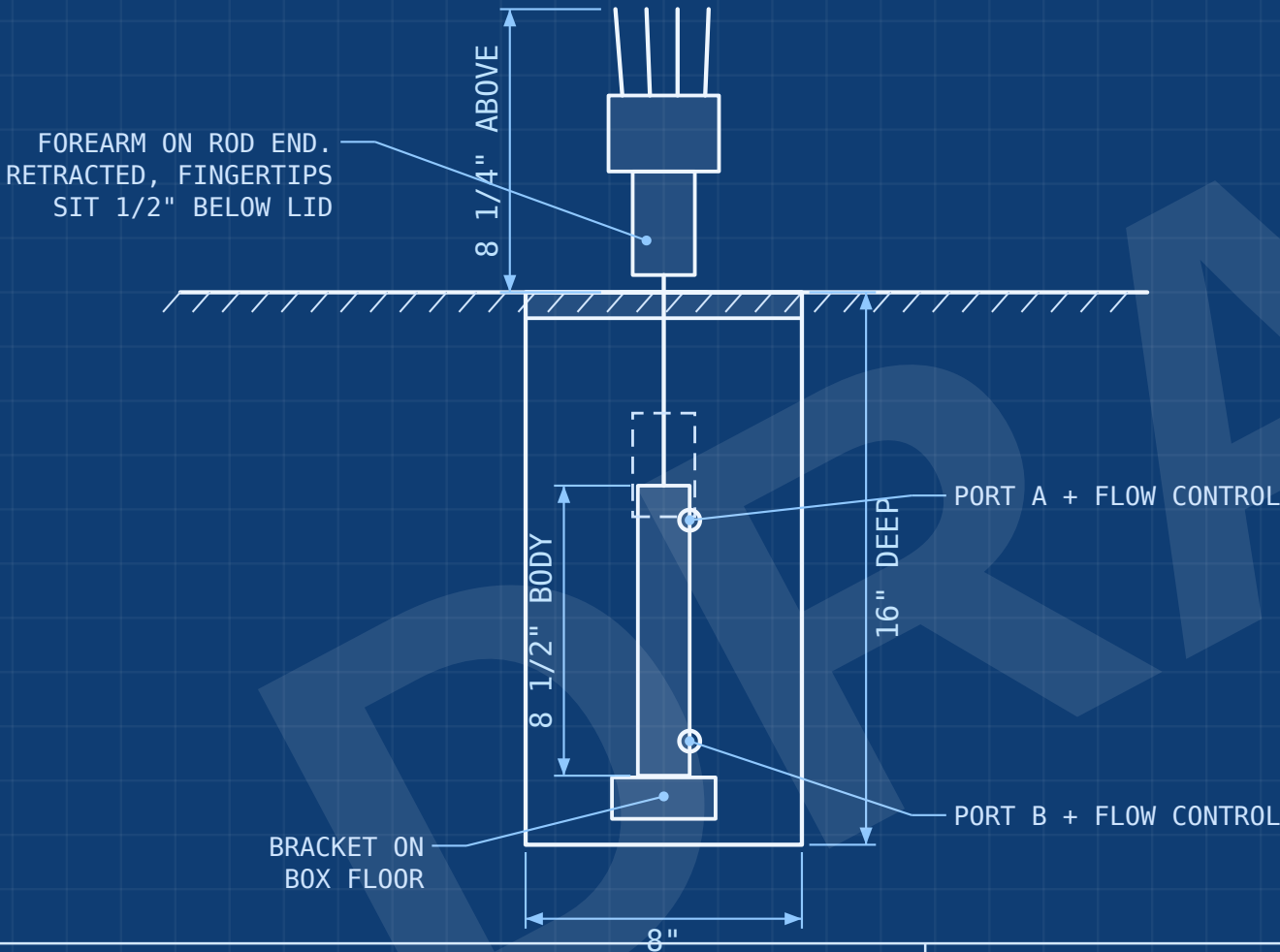
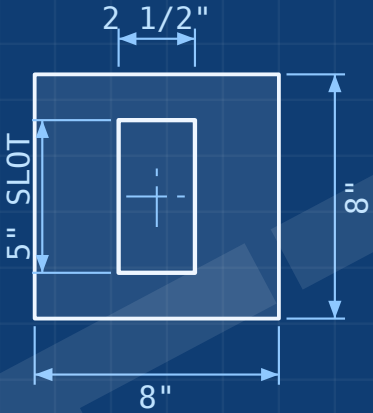


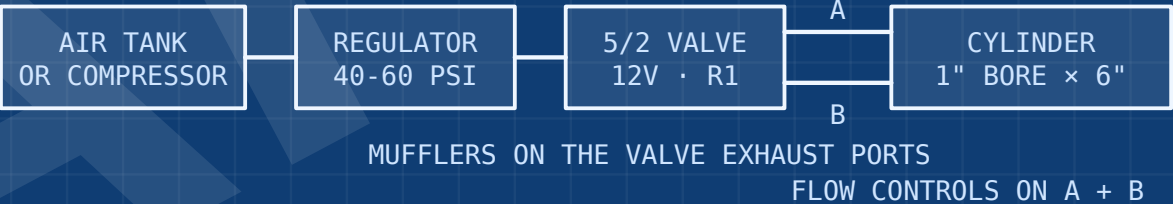
SECTION THROUGH THE BOX
HAND SHOWN UP · LID FLUSH WITH THE GROUND



TOP VIEW · LID



AIR SCHEMATIC



NOTES

1. Dimensions in inches. Bury the box so the lid is flush with the ground, or hide it in a low mound.
2. Mount the cylinder upright on the box floor. With the rod down, the fingertips sit 1/2" below the lid.
3. Extended, the hand rises 6" and the fingertips reach 8 1/4" above the ground.
4. Start at 40 psi and set both flow controls before raising the pressure.
5. Release the air before working on the cylinder or fittings.

CUT LIST & HARDWARE

QTY	PART	SIZE / SPEC
1	Box, 3/4" plywood	8 × 8 × 16 deep
1	Cylinder, double acting	1" bore × 6" stroke
1	Cylinder bracket	to box floor
1	5/2 valve, spring return	12V DC
2	Flow controls	1/8" NPT × 1/4" tube
2	Mufflers	for valve exhaust
1	Regulator + gauge	0-100 psi
1	Hand + forearm	latex or foam, 7" total
1	Diode across coil	1N4007

PROP CONTROL · DIY PROJECT 08

GRABBING
HAND

Air cylinder under the dirt · 12V valve

SCALE NOT TO SCALE	UNITS INCHES	SHEET 1 OF 1
REV A	DATE 2026-10-13	DRAWN PROP CONTROL