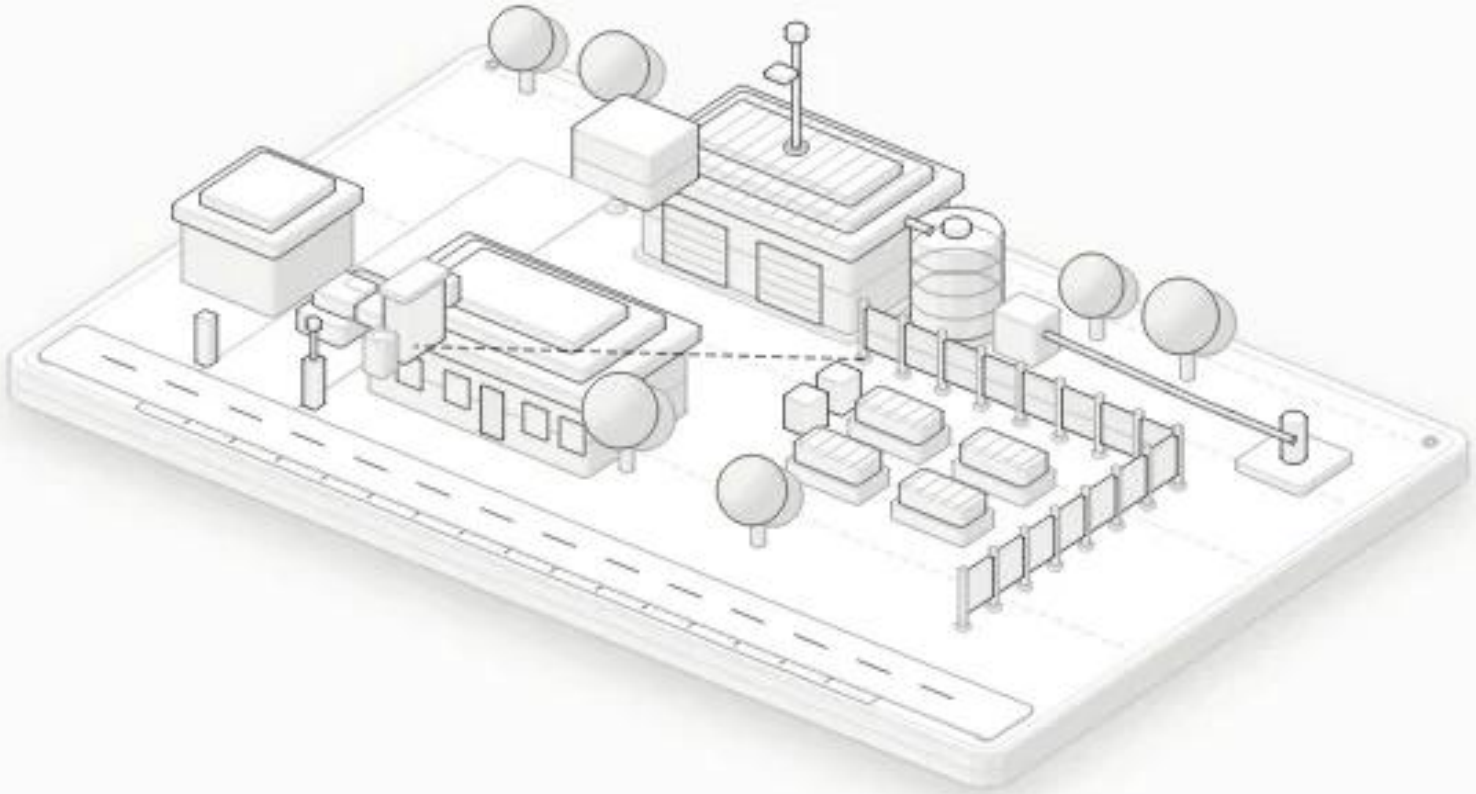
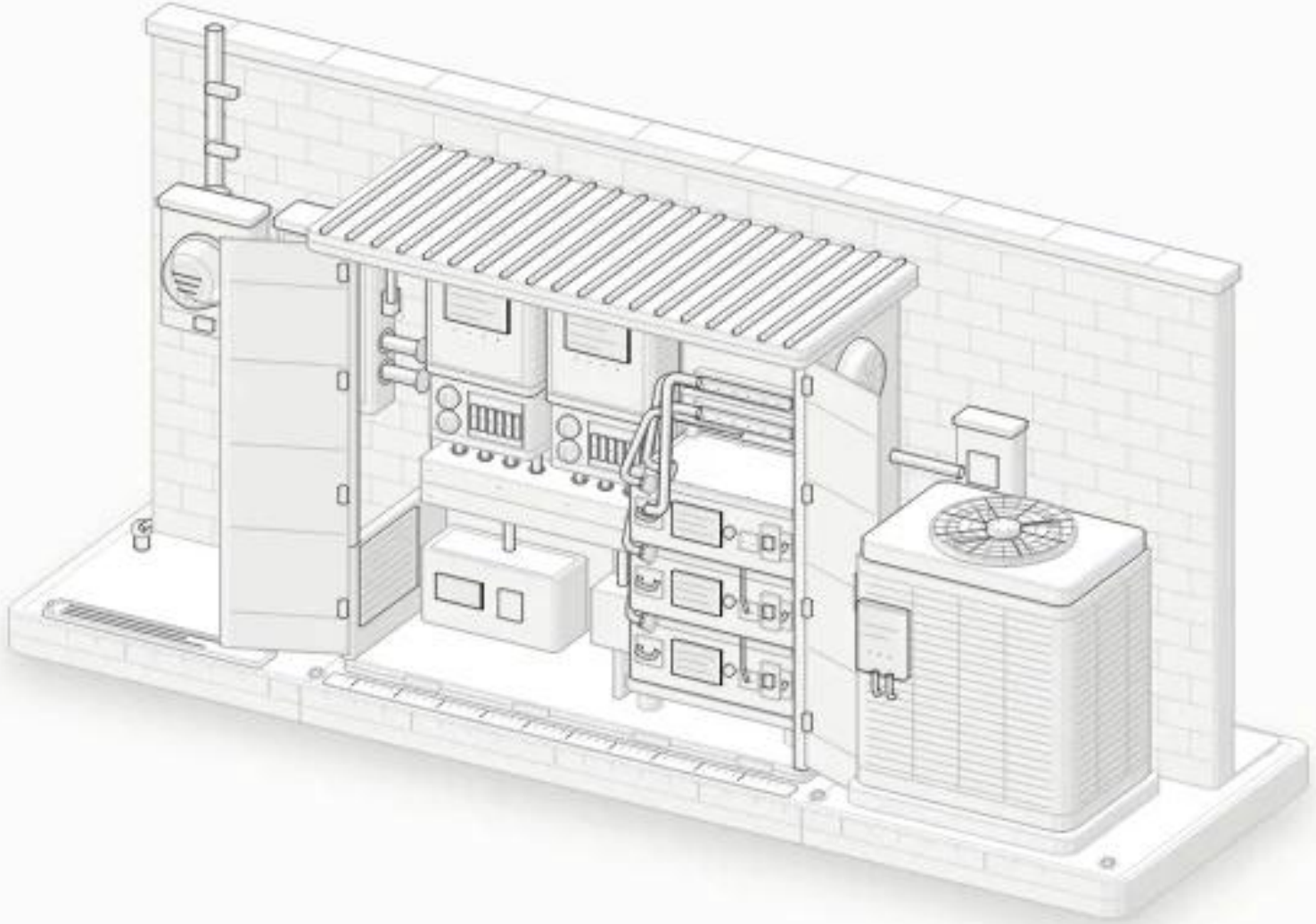


1-STORY HOUSE · METER CABINET · 28X35 BARN · 70-YD FENCE

16.2 kW · 48 kWh

Fig OG-2 · 3D

OUTDOOR METER CABINET · 2X EG4 12000XP + 3X DOCAN S3 16 KWH

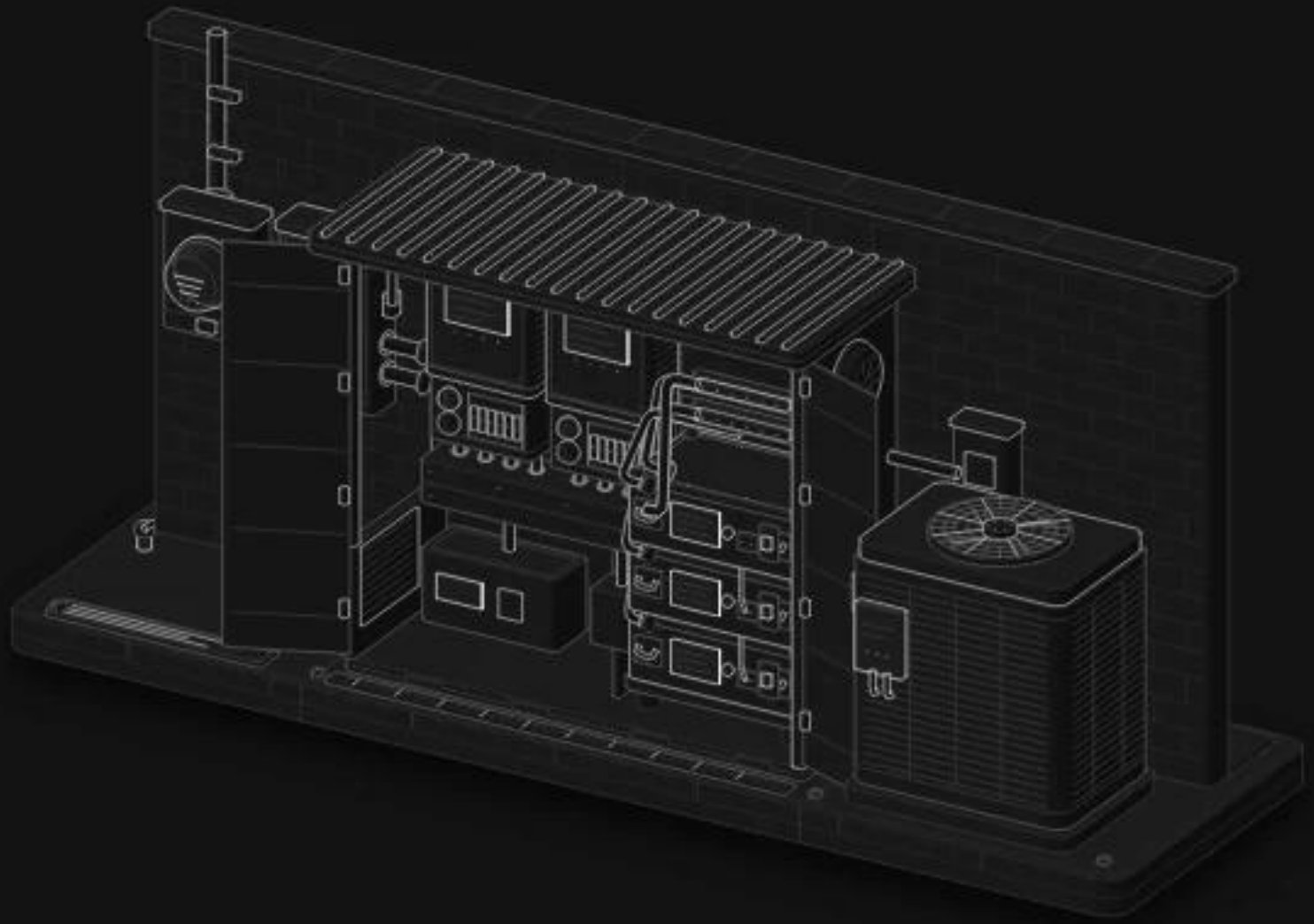


6'-0" W X 2'-6" D X 6'-6" H WEATHER CABINET

24 kW · 48 kWh · 314Ah MB31

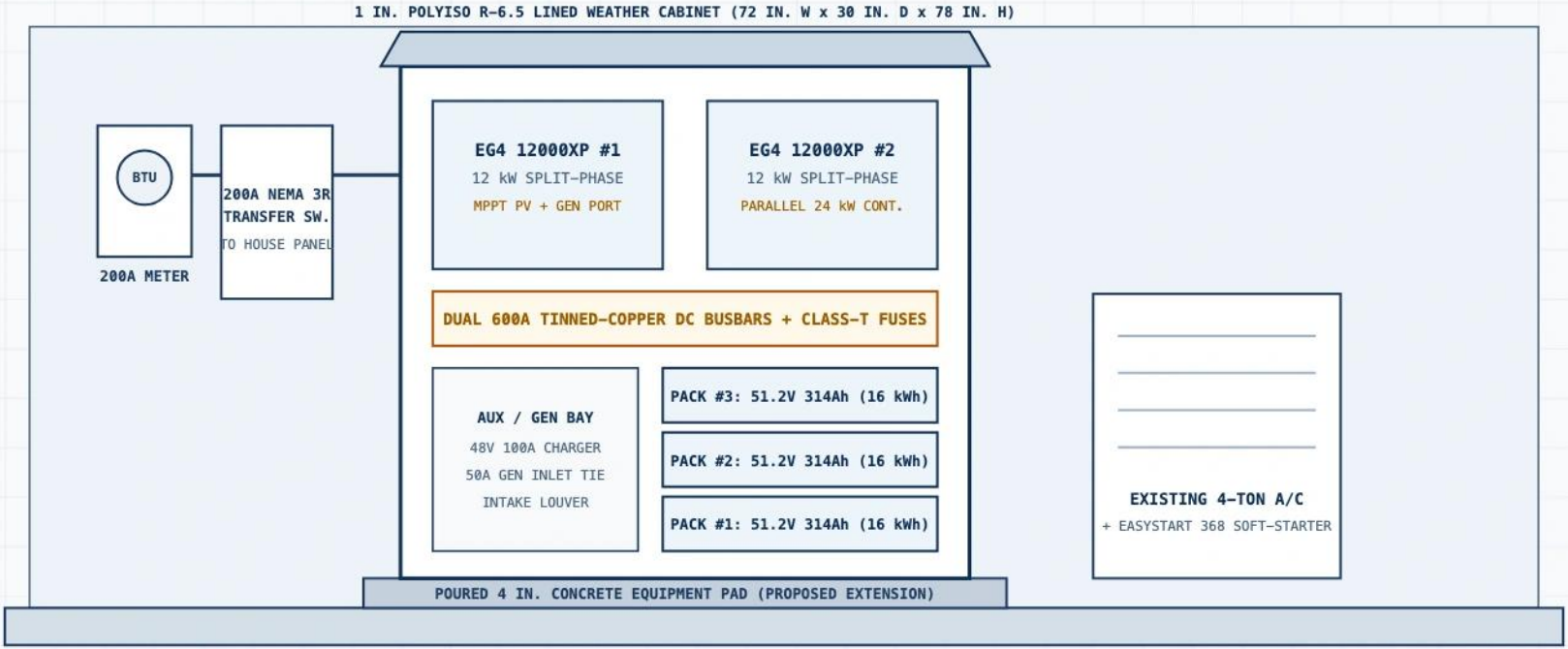
Fig OG-2 · 3D

OUTDOOR METER CABINET · 2X EG4 12000XP + 3X DOCAN S3 16 KWH



6'-0" W X 2'-6" D X 6'-6" H WEATHER CABINET

24 kW · 48 kWh · 314Ah MB31



ENGINEERING & LAYOUT NOTES (PROPOSED / UNBUILT CONCEPT)

1. Exterior cabinet keeps inverters, 600A busbars, and 48 kWh LFP outside living quarters.
2. Dual 2 in. rigid conduits run through brick wall into interior 200A distribution panel.
3. Current-transformer (CT) sense leads enforce zero-export self-consumption priority.
4. Underground 1-1/4 in. Sch. 80 PVC PV conduits feed cabinet from vertical solar fence.

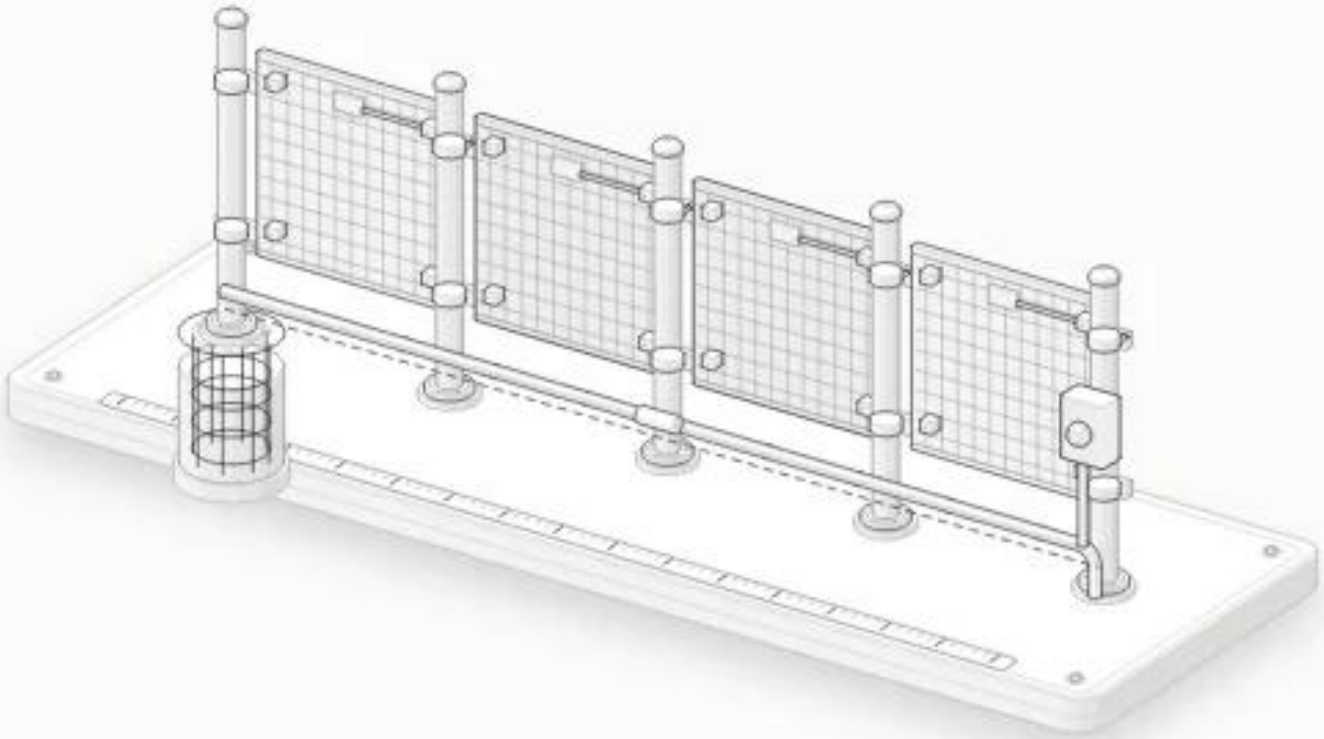
DROOL FOR TOOLS // CHICK RANCH

LOCATION: BRYAN, TX (BRAZOS COUNTY OCL)

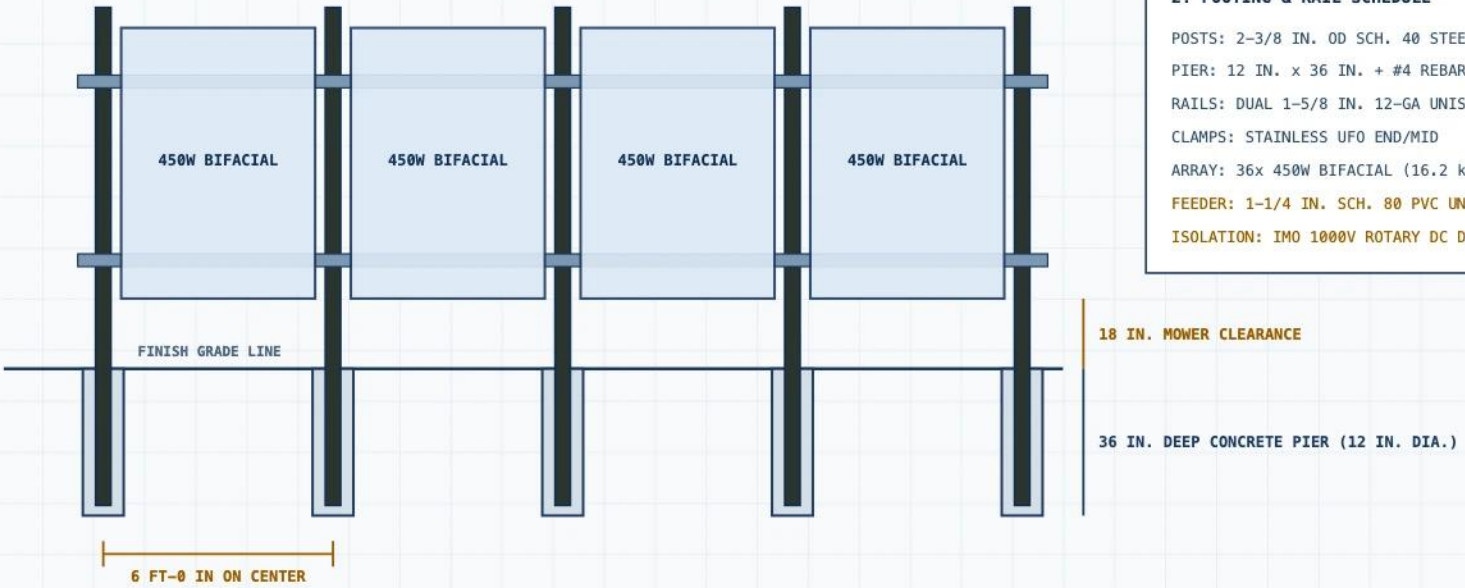
SYSTEM: 24 kW SPLIT-PHASE // 48 kWh LFP

DRAWING NO: OG-2-2D // REV 2 (NO PII)

STATUS: PROPOSED LAYOUT / UNBUILT



1. TYPICAL 4-PANEL STRUCTURAL ELEVATION (VERTICAL BIFACIAL)



2. FOOTING & RAIL SCHEDULE

POSTS: 2-3/8 IN. OD SCH. 40 STEEL PIPE

PIER: 12 IN. x 36 IN. + #4 REBAR CAGE

RAILS: DUAL 1-5/8 IN. 12-GA UNISTRUT

CLAMPS: STAINLESS UFO END/MID

ARRAY: 36x 450W BIFACIAL (16.2 kW)

FEEDER: 1-1/4 IN. SCH. 80 PVC UNDERGROUND

ISOLATION: IMO 1000V ROTARY DC DISC.

SOLAR FENCE SPECIFICATIONS (PROPOSED / UNBUILT CONCEPT)

1. L-shaped 70-yard alignment captures east-west solar irradiance across pasture line.
2. Vertical orientation sheds wind loads, avoids roof penetrations, and sheds debris.
3. 18 in. lower clearance permits zero-turn mower trimming cleanly beneath rails.
4. Brazos County OCL site; buried PV conduits run to meter-wall weather cabinet.

DROOL FOR TOOLS // CHICK RANCH

LOCATION: BRYAN, TX (TEN-ACRE FARM)

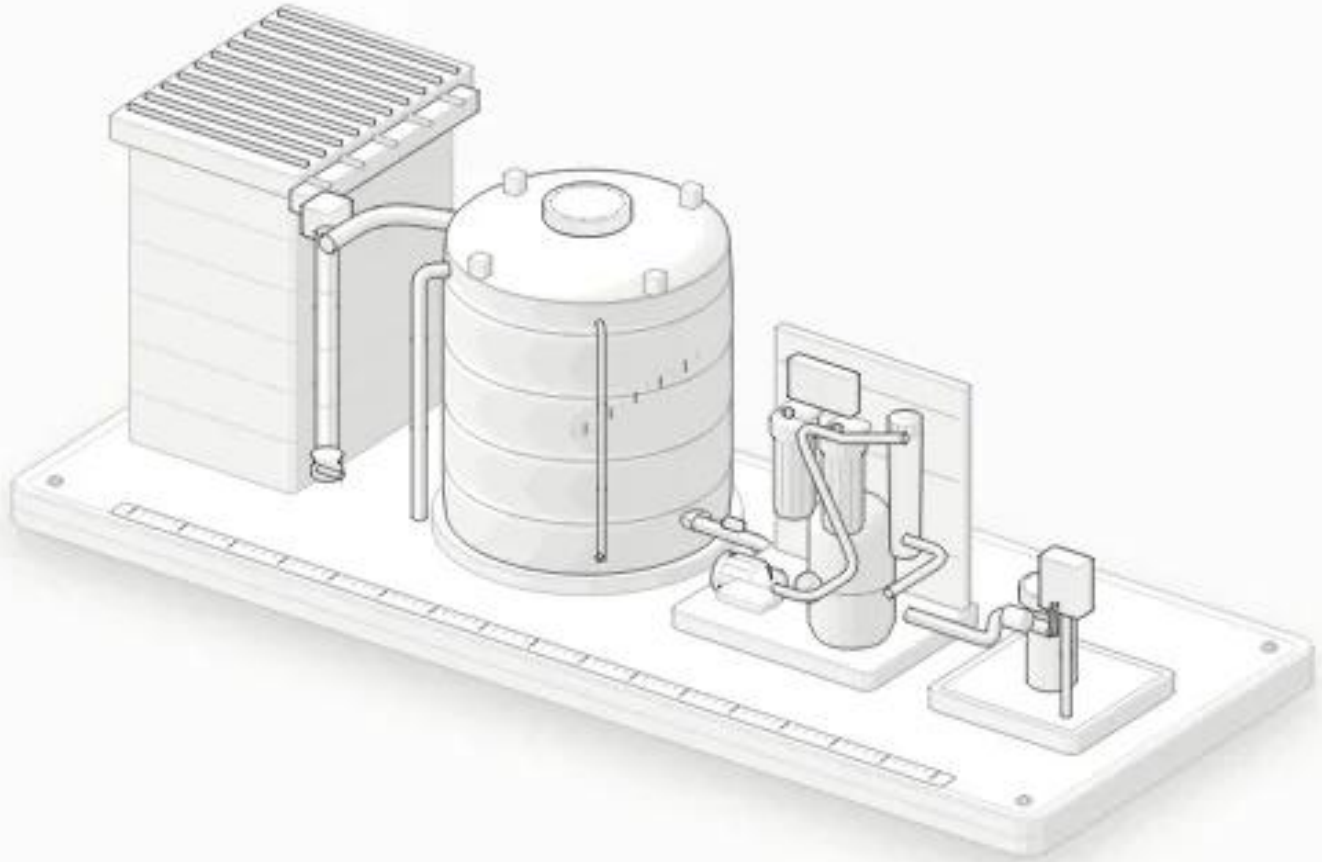
ARRAY: 36x 450W VERT. BIFACIAL (16.2 kW)

DRAWING NO: OG-3-2D // REV 2 (VALID XML)

STATUS: PROPOSED LAYOUT / UNBUILT

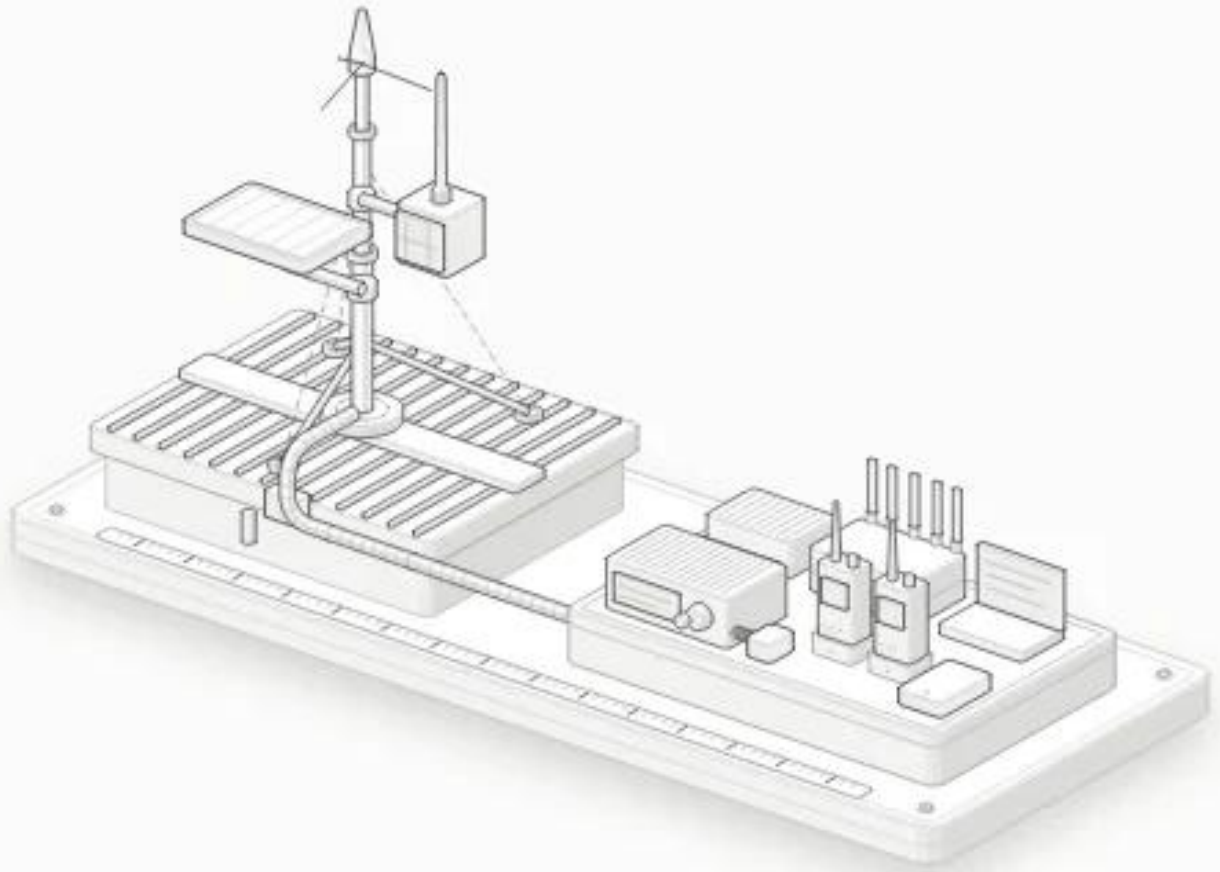
Fig OG-4 · 3D

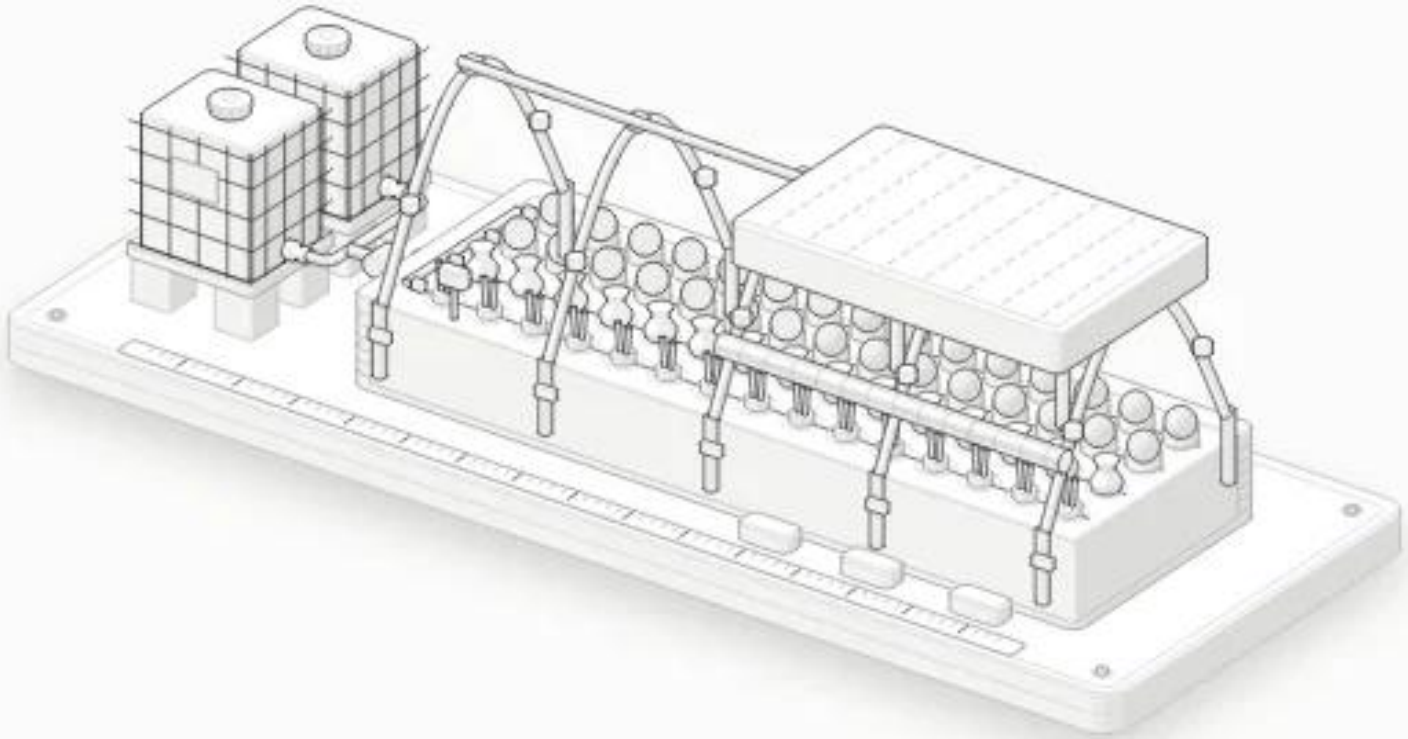
OFF-GRID WATER SYSTEM · 5,000-GAL CISTERN, UV SKID & EXEMPT WELL



BARN 6" GUTTER + FIRST-FLUSH · 3-STAGE UV-C · 380-FT WELL

77,960 Gal/Yr

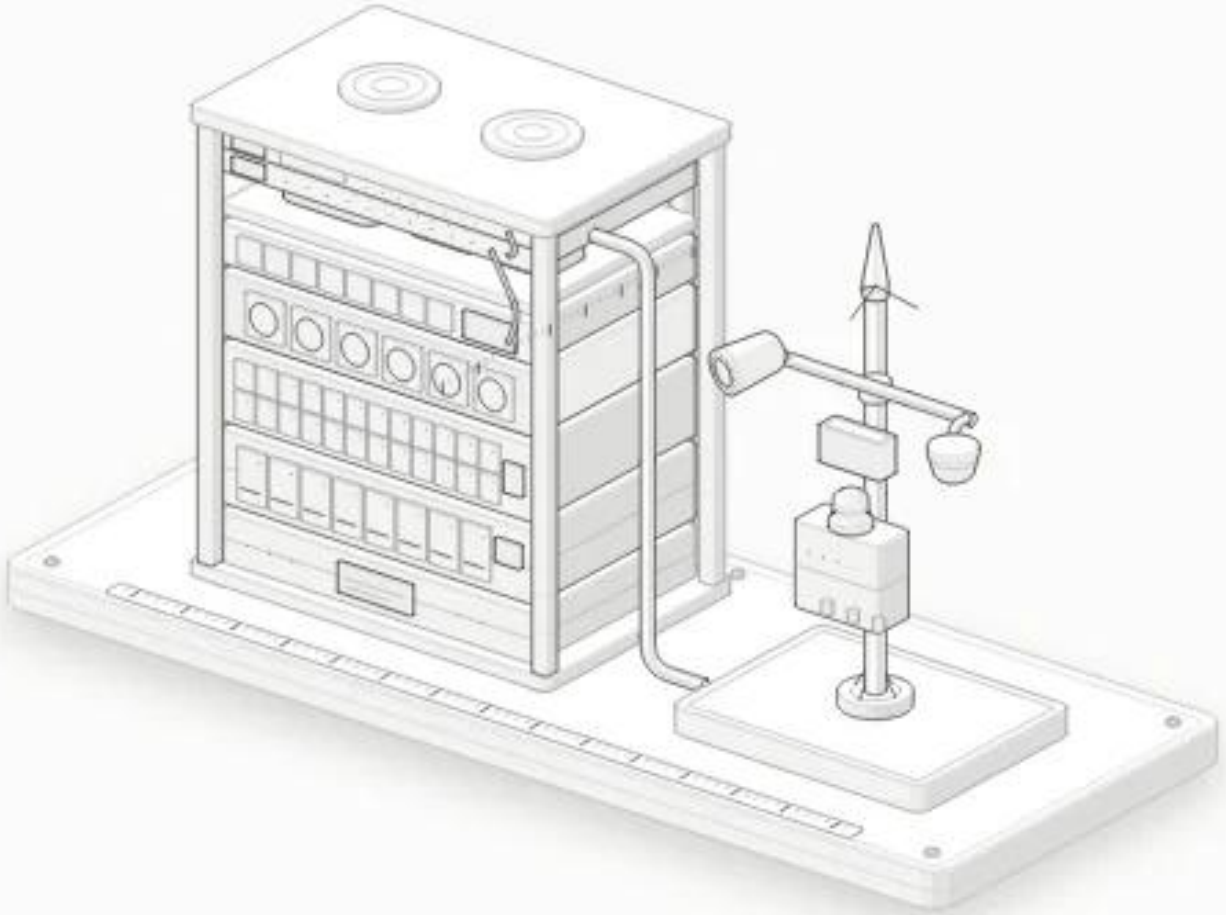




DUAL 275-GAL CAGED IBCS · 4'X8'X12" BED · AG-50 BLANKET Day 7-90 · 550 Gal

Fig OG-7 · 3D

SOVEREIGN LOCAL AI 42U RACK & AUTONOMOUS AI PERIMETER MAST



DL360 + R730XD + T330 + M4 · 48GB GPU · CORAL TPU

58W Night Sentinel