

Farm design and specifics V9 JULY 20, 2025

ORDER OF PRIORITIES

- Water
 For crops & livestock
- Chicken Coup
 For eggs
 To utilise fallen fruit and manage fruit fly
 To create a source of fertiliser
- Cow Fencing

 To protect crops from rouge cattle

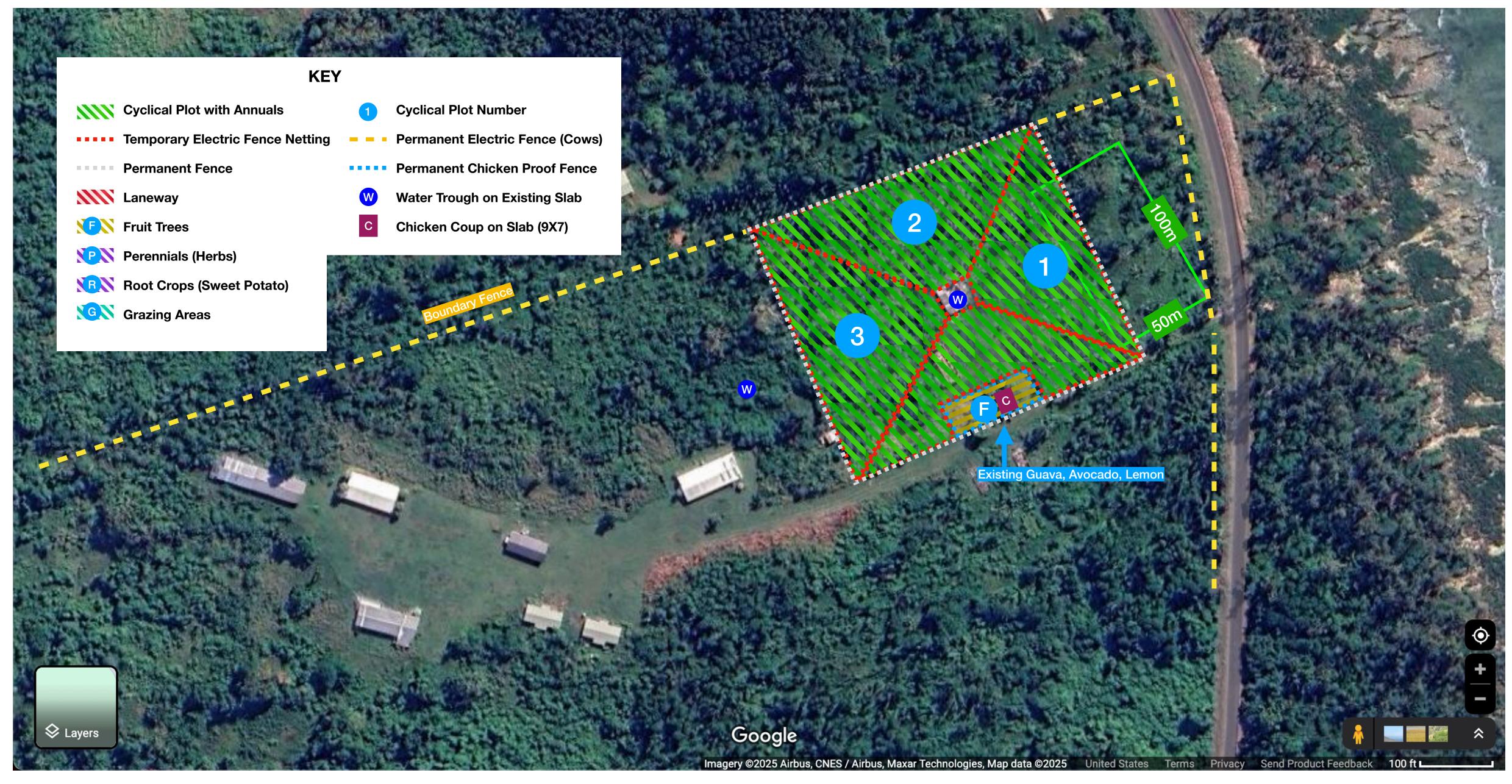
 To pen a cow in areas that require clearing

- Pig Pen
 To hold pigs in set locations
 To till the soil
- Animal Shelter

 To help keep animals healthy in the rainy season
- Purchase and Home Animals
 Bring new animals to the YWAM Base



FARM DESIGN





Water For crops & livestock

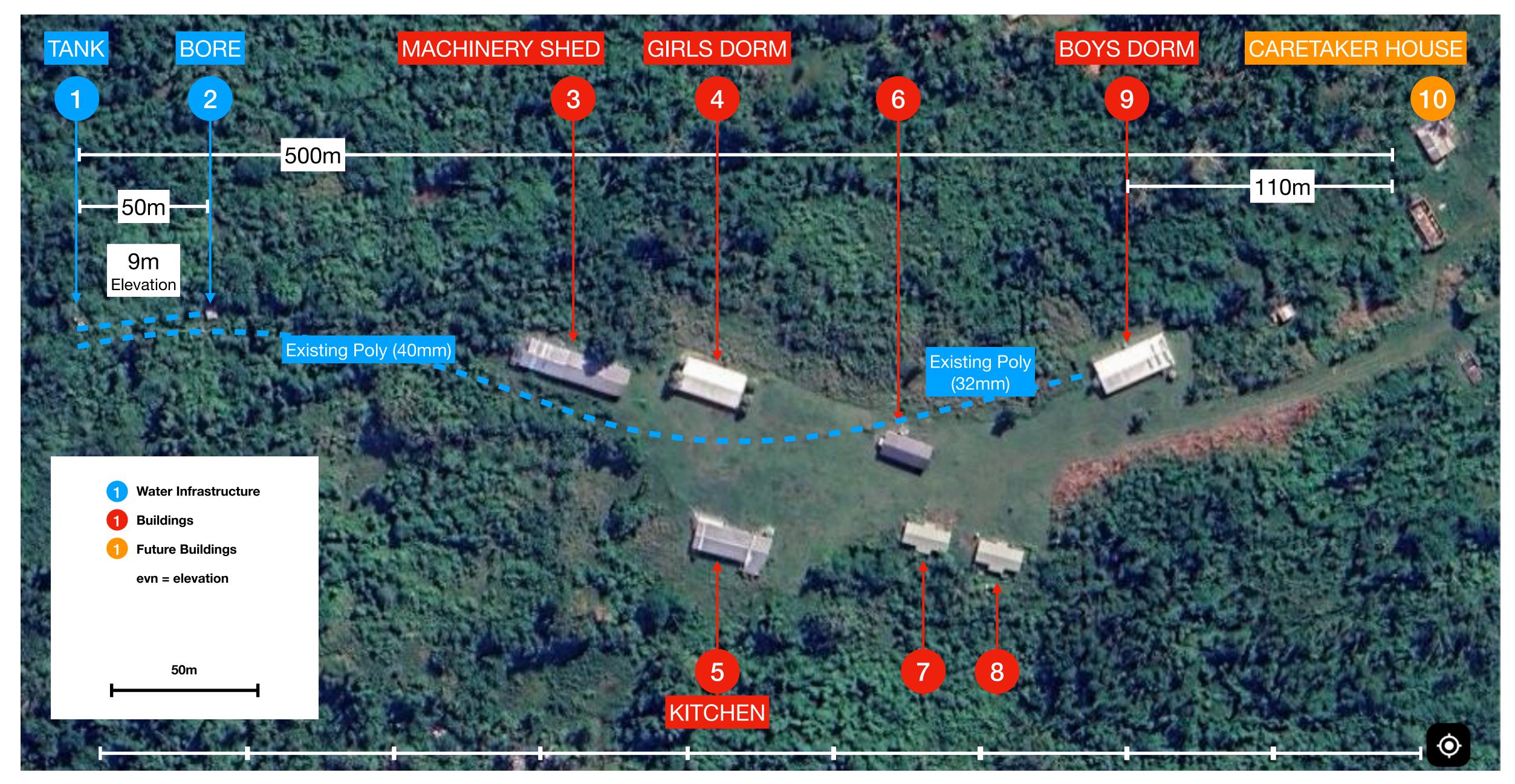
TASKS / SCOPE OF WORK

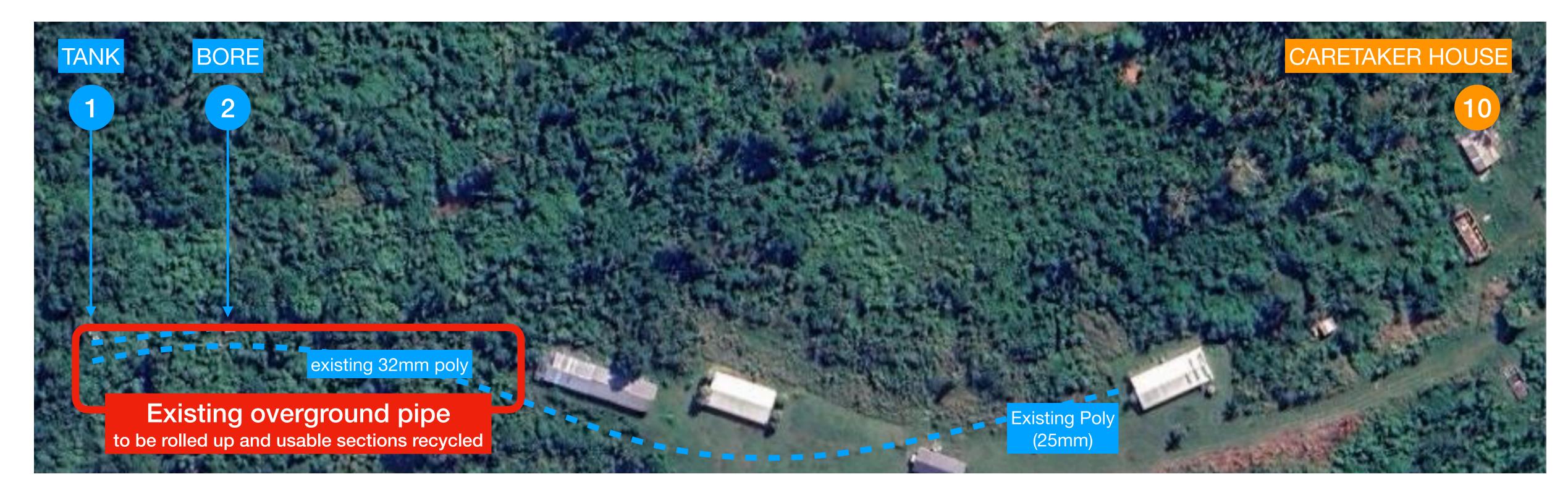
Clean Water Tank

Dig Pipes into the Ground

Fix the Pipework

Install Troughs





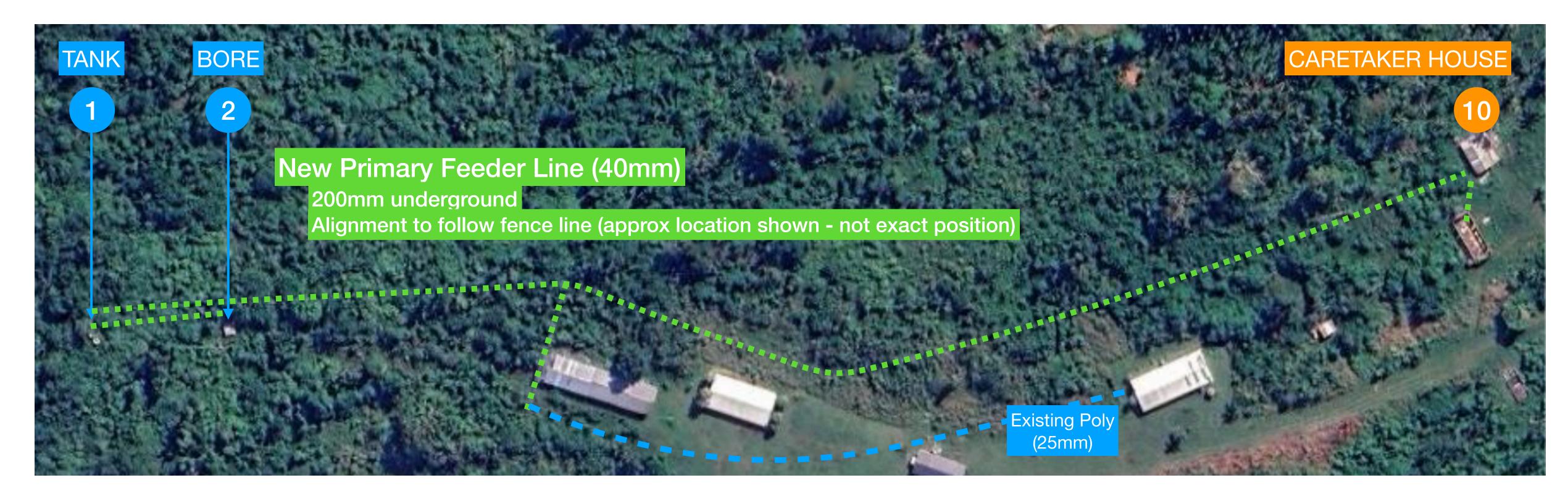
STAGE ONE - Clean and Re-Plumb the Existing Tanks

Up turn and remove all leaf litter and mud from bottom of tanks

STAGE TWO- Remove and retrieve existing overland 32mm poly

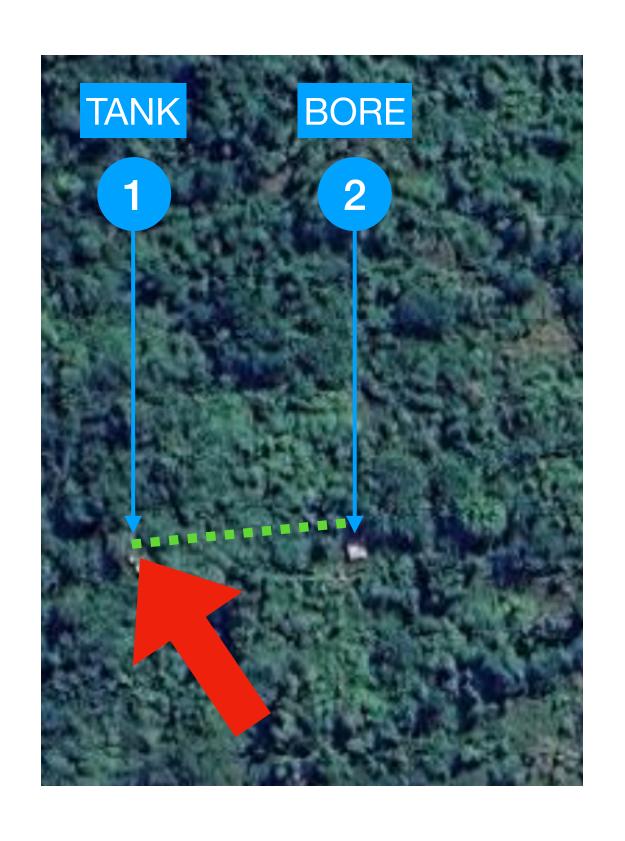
Retrieving the existing poly and fittings for re-use.

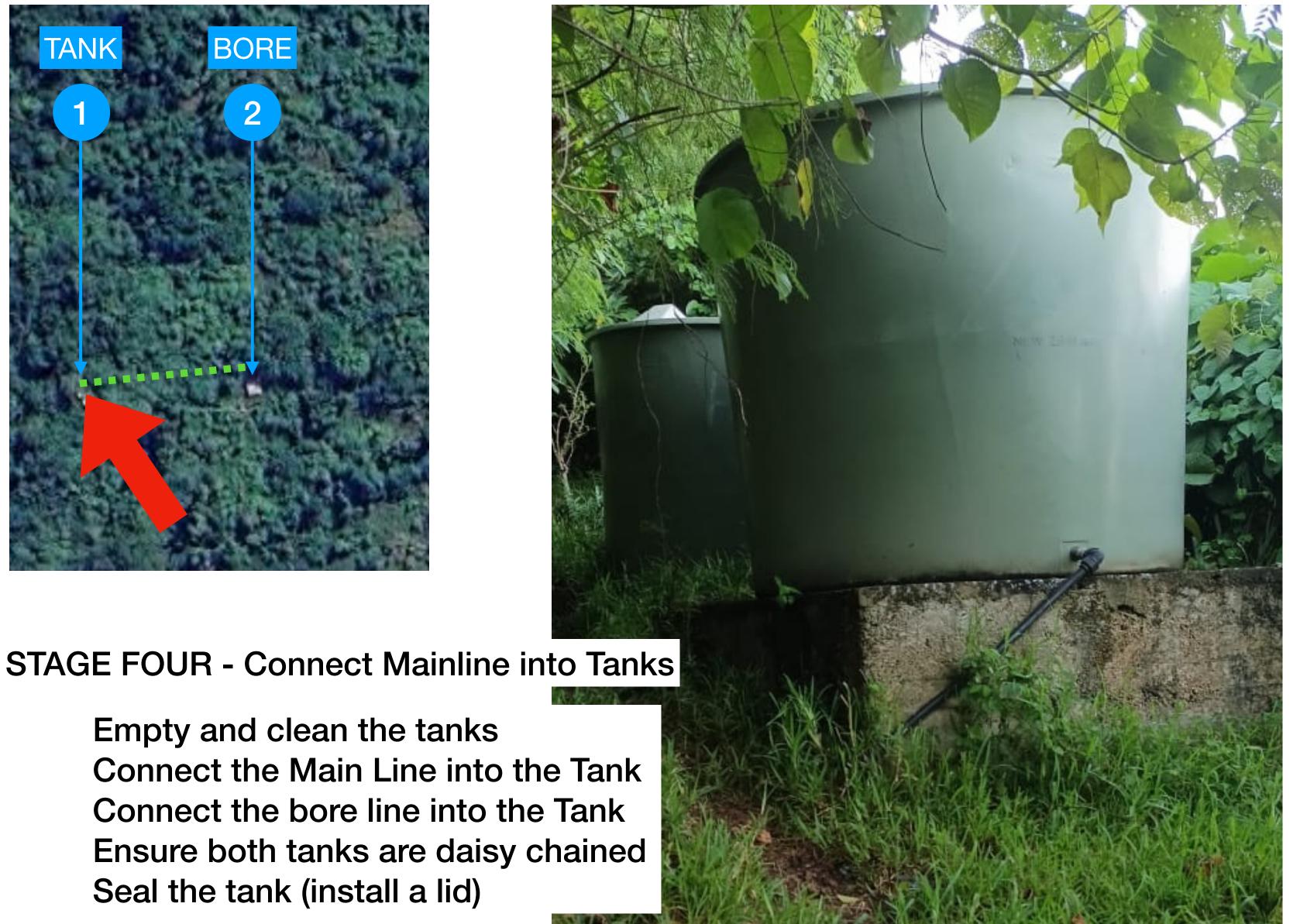
Ensure the existing poly isn't further damaged by the trencher or future work.



STAGE THREE - Installation of Main Line and Branches

600m of 40mm green-stripe poly Clearing pipeline (ideally to follow a fence line) 200mm deep trench (requires trencher and saws for tree-roots)



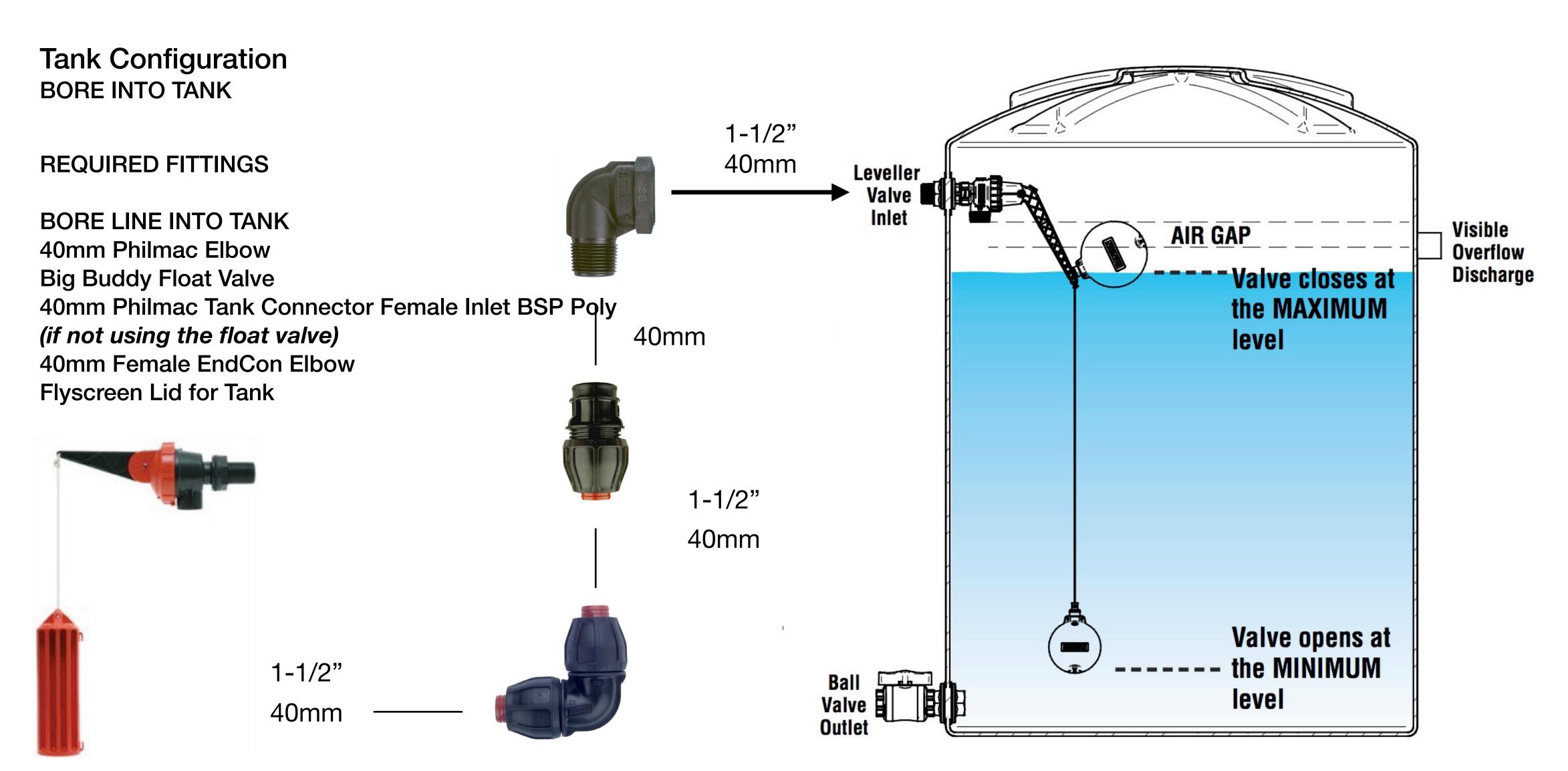


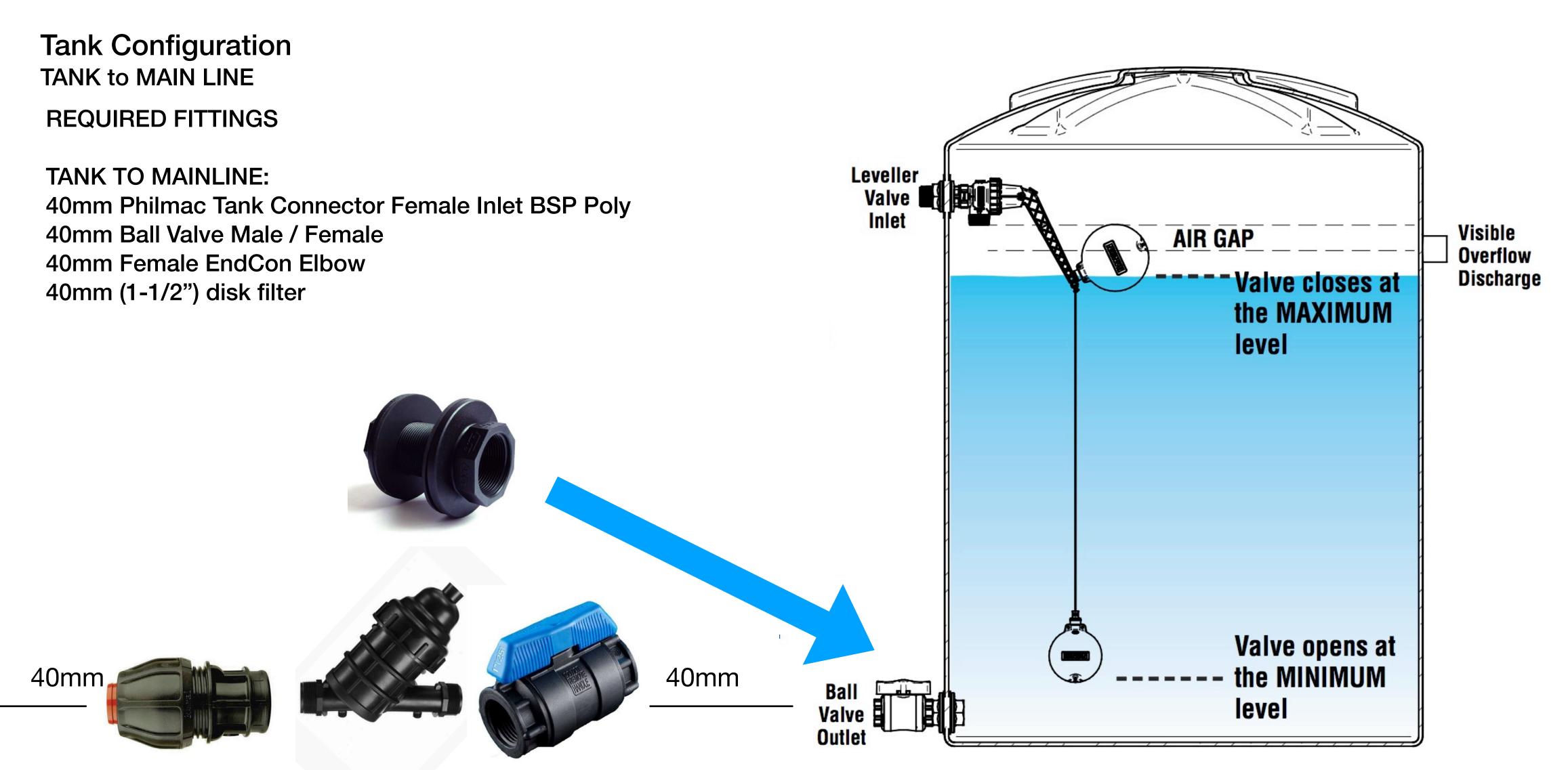




Seal the tank (install a lid)

Empty and clean the tanks





Purchase additional washers and nipple fittings for redundancy

Tank Configuration TANK to MAIN LINE

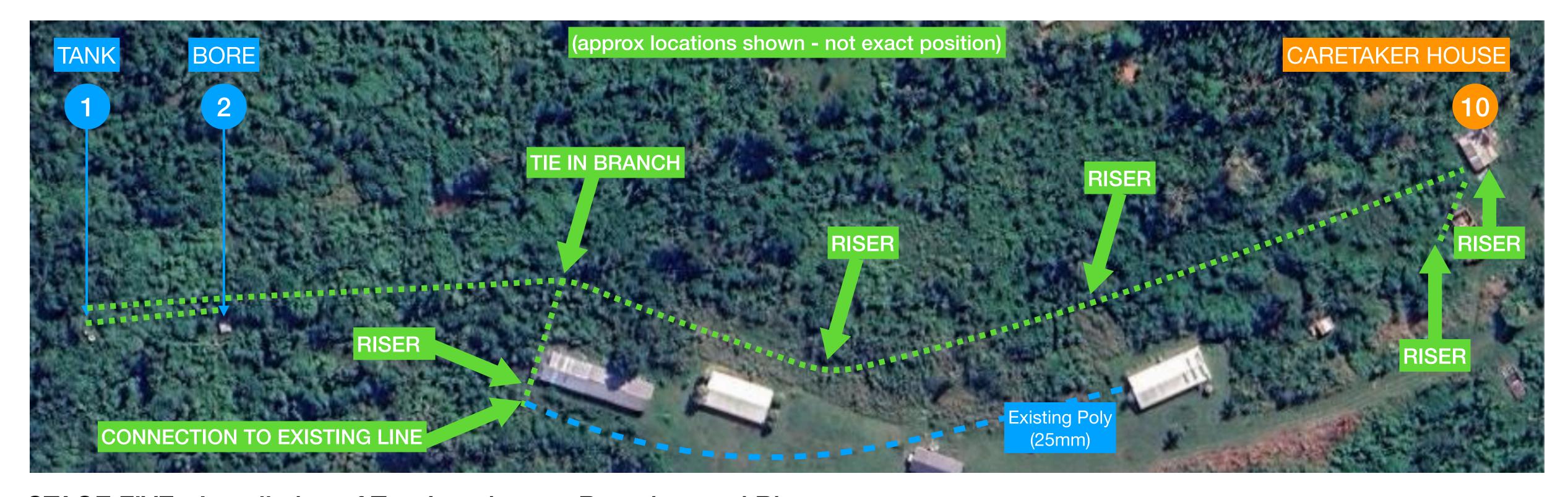
REQUIRED FITTINGS

TANK TO TANK:

- 2 X 40mm Tank Outlet Female
- 2 X 40mm Ball Valve Male / Female
- 2 X 40mm EndCon Female



Purchase additional washers and nipple fittings for redundancy



STAGE FIVE - Installation of Tee Junctions to Branches and Risers













5 X Risers

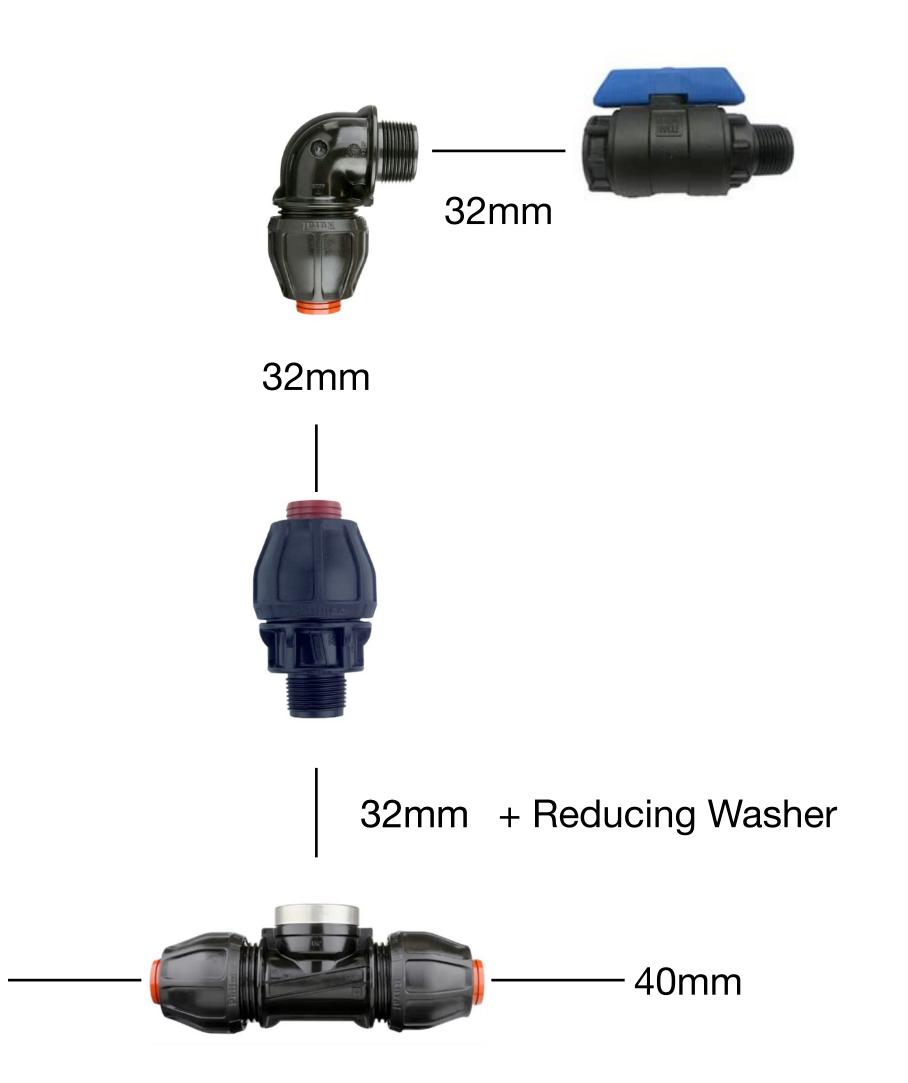
REQUIRED FITTINGS

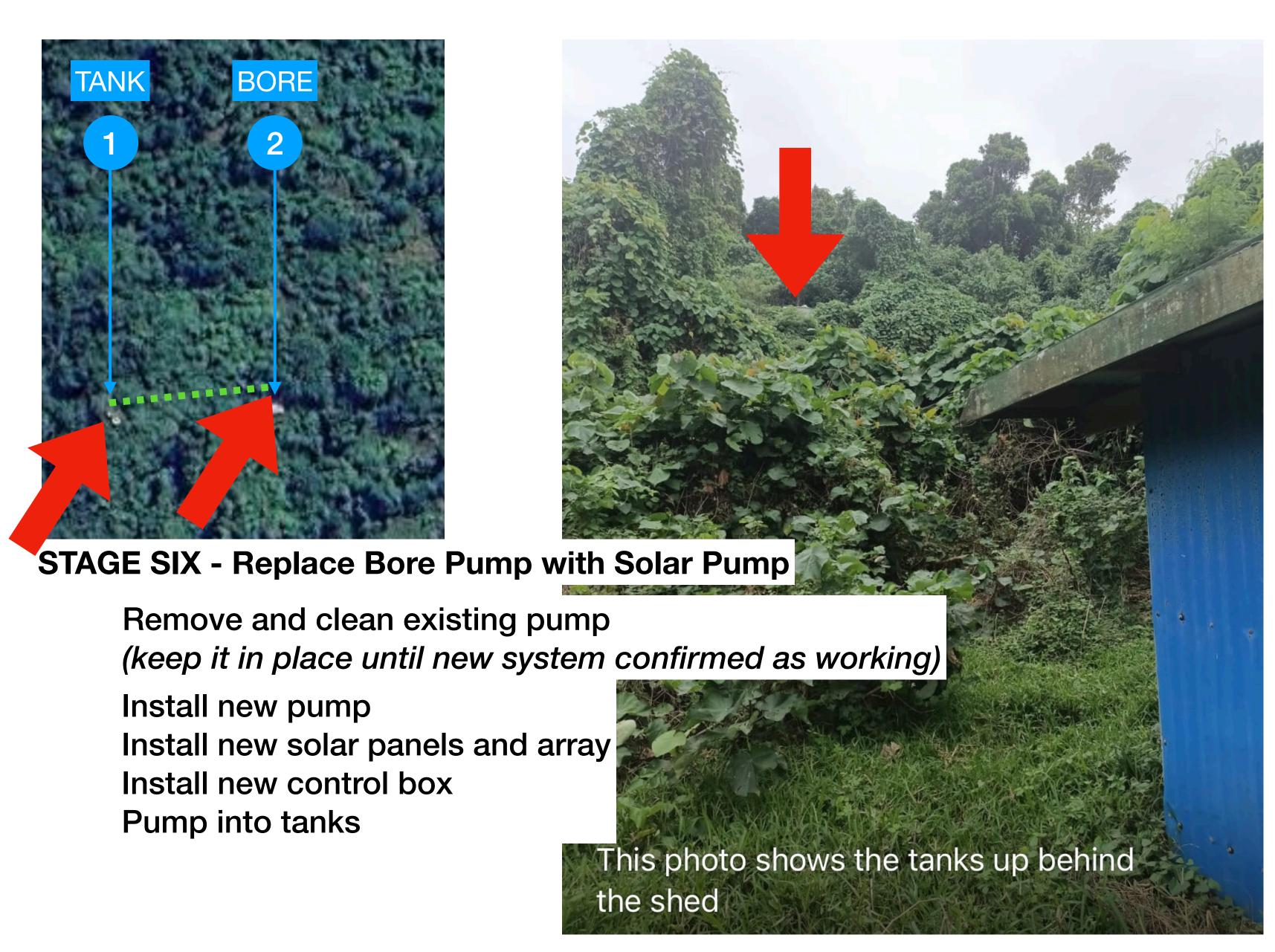
5 X Joiner Rural TEE 40MM with 32MM Female Tee (optional reduction washer if 40mm tee to 40mm branch)
5 X 32mm Male EndCon
Recycled 32mm branch poly
5 X 32mm Poly End-Con Male (90degree elbow ideal)
5 X 32mm Ball Valve

1 X Tee Junction to Branch

REQUIRED FITTINGS

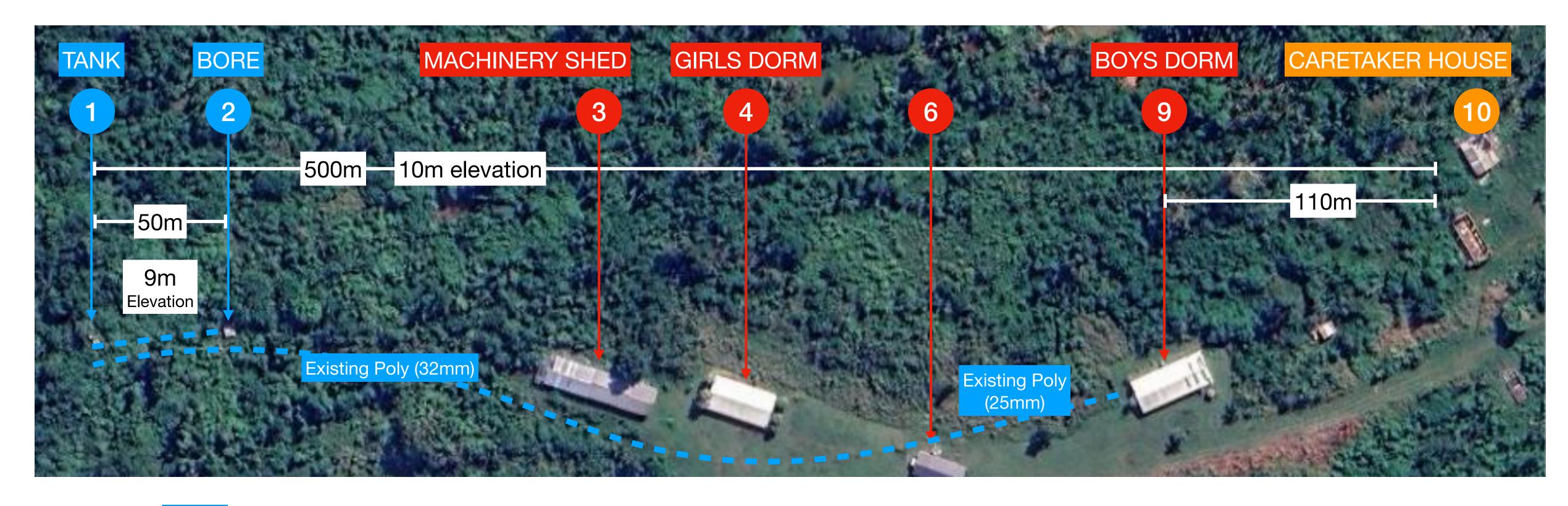
1 X Joiner Rural TEE 40MM with 32MM Female Tee(optional reduction washer if 40mm tee to 40mm branch)1 X 32mm Male EndConRecycled 32mm branch poly

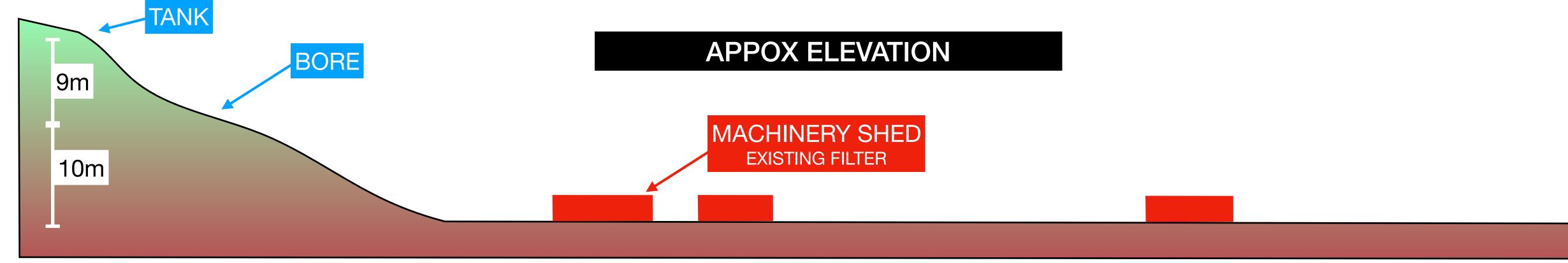














Chicken Coup For eggs and meat

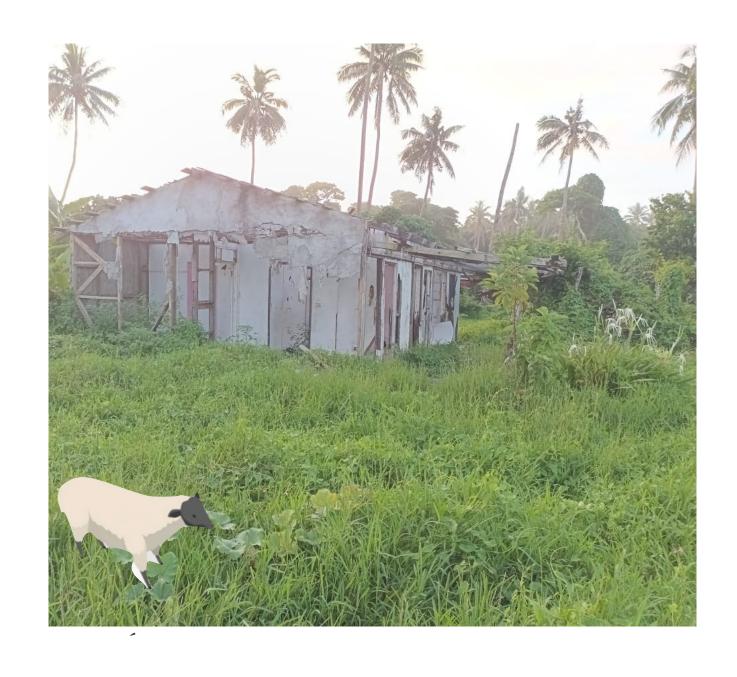
TASKS / SCOPE OF WORK

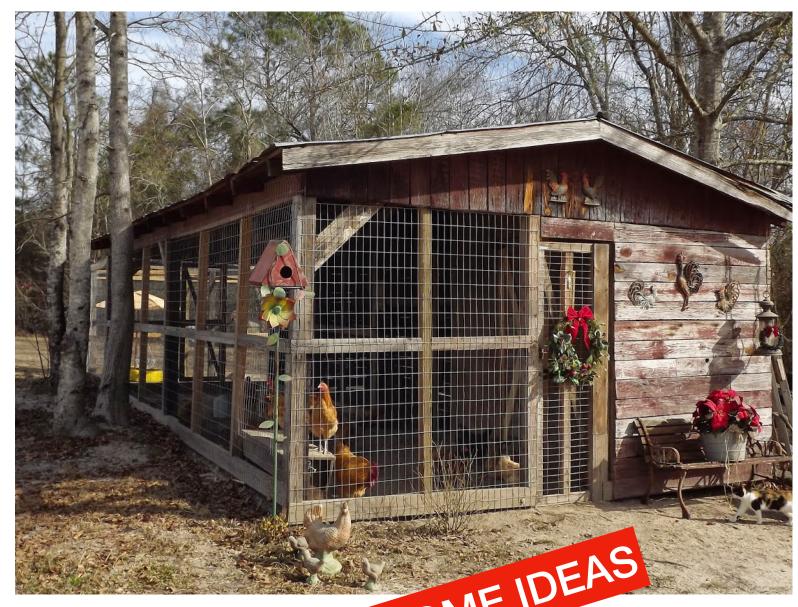
Assess the need and come up with a design

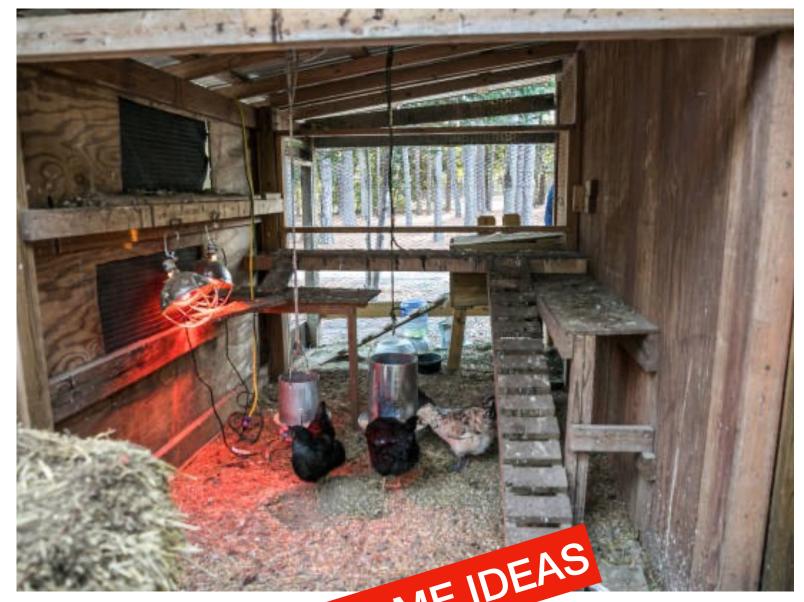
Make it dog proof

Make it chook proof

Make it hurricane proof













REQUIRED MATERIALS

Chicken Netting 50m Roll (2m X 20m)

Metal Strapping (non-structural)

Clouts (1000pc)

Phillips Head Screws (1000) (45mm outdoor galvanised)

Buggle Screws (500) (75mm outdoor galvanised)

Hinges X 3 (Access Door)

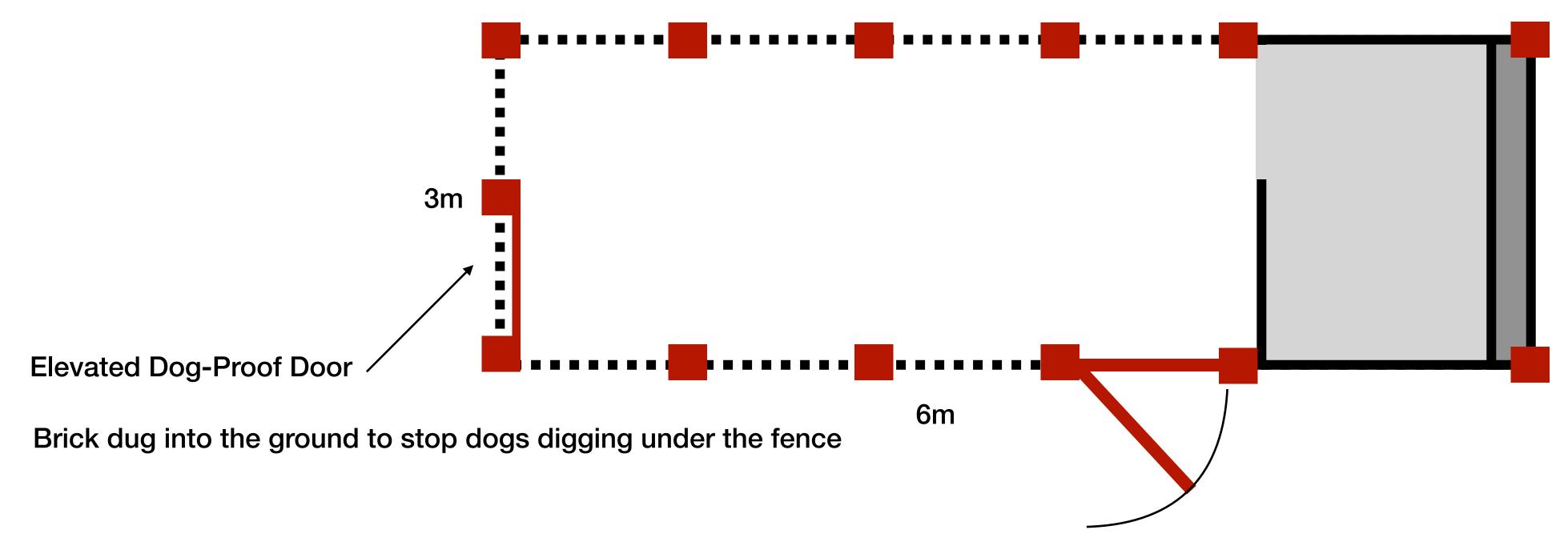
Hinges X 6 (Laying Boxes)

Brace Ply (H2)

Bricks

Assuming all other timber and materials can be sourced from on base

Chicken Feed 4X 20kg Bag Pellets 2 X 44Gallon Drum





Cow Fencing

Keep the rotten neighbours cows out... Keep their own cow in!

TASKS / SCOPE OF WORK

Assess the need and finalise up with a layout

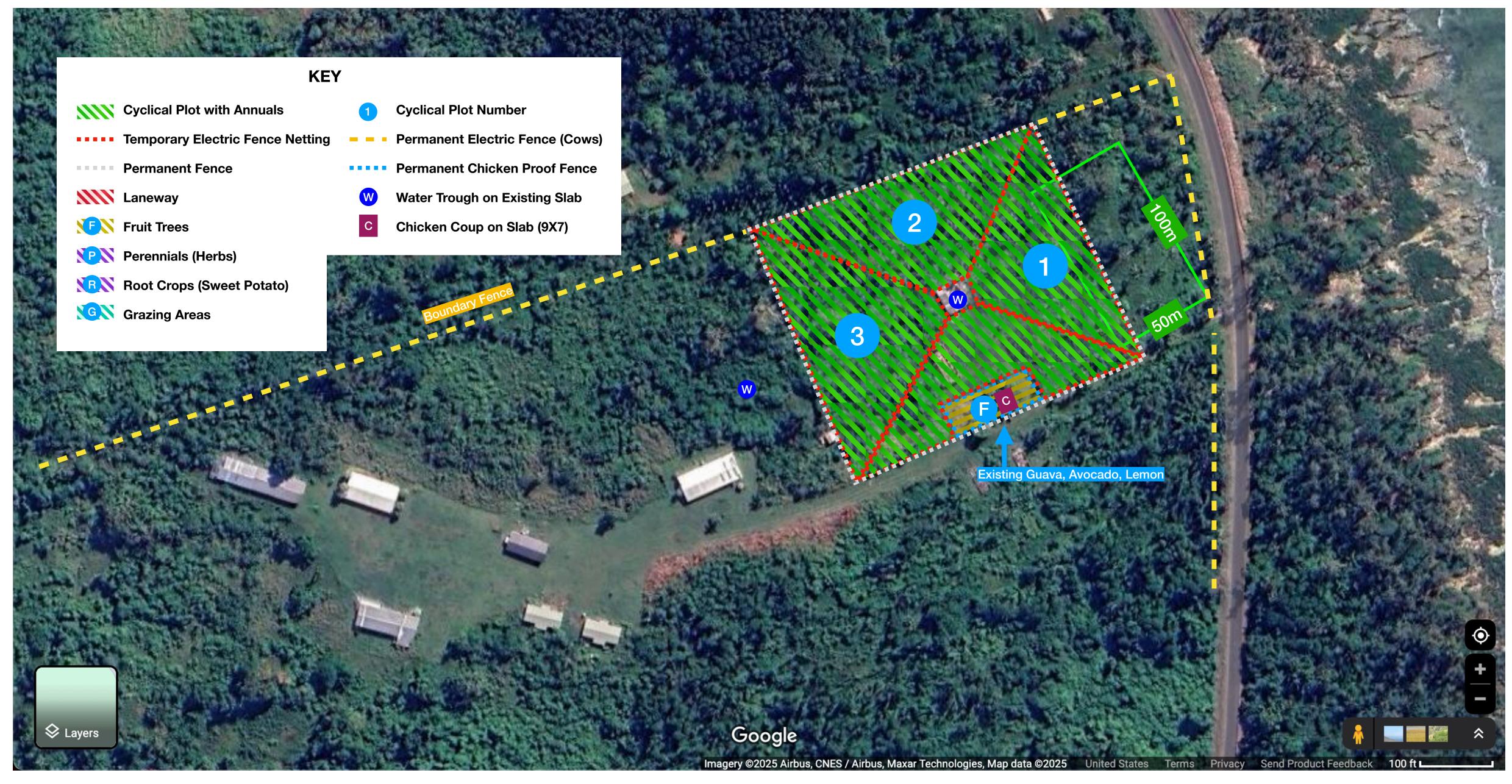
Clear Fence Lines

Install corner posts, strainers and gates

String wire

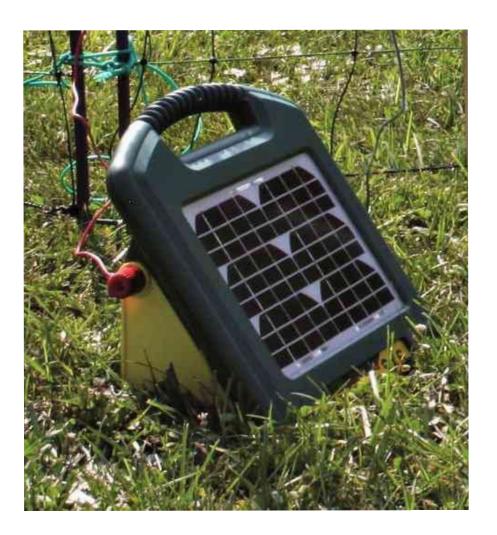
Install Electric Netting

Make it cow and hurricane proof











Requirements for Plot Fencing

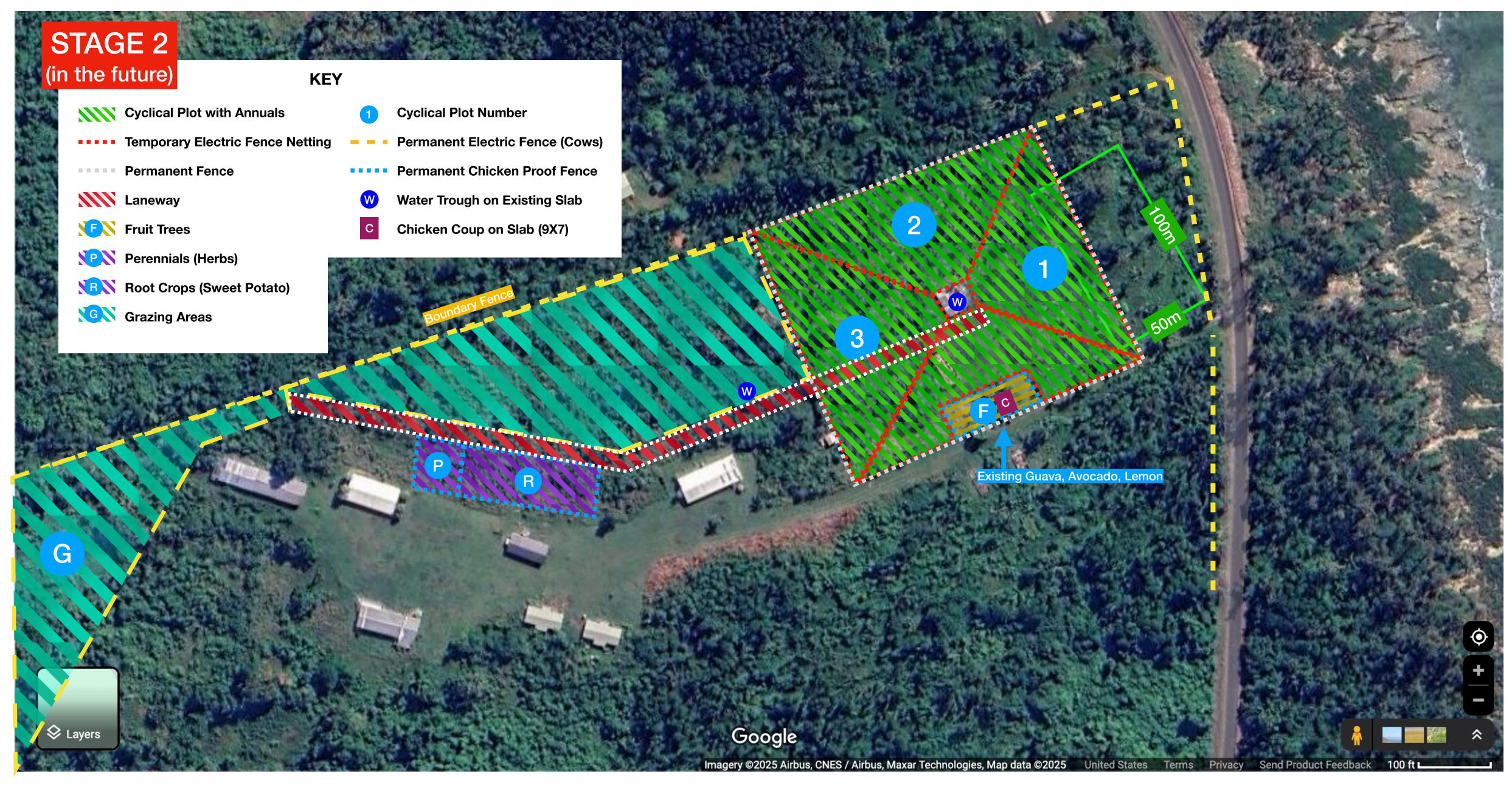
- 4 X Star Pickets (for corners of plot to tension netting)
- Electric Netting
- Fence Energizer

Requirements for Boundary Permanent Fence

- 200 X Star Pickets
- High Tensile Wire
- 5 X Strainer Posts
- Insulators X 200
- End Insulators X 12

*Gate (for Base Entrance?), Gate Fittings and Latch?

4km - Fencing Barbed Wire High Tensile 1.80mm and 1.57mm wire





Pig Pen

To hold pigs in set locations To till the soil

TASKS / SCOPE OF WORK

Build the pen

Build a mobile shelter

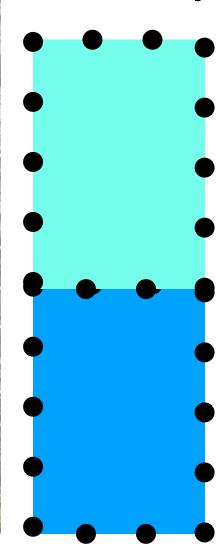
Build a mobile water supply

Pig Pen



Two pens.
Leap Frog Around Paddock.
Only remain in pen position long enough to tear everything up, then move the pen.

Shelter and water needs to be able to be easily moved about.





REQUIRED MATERIALS

Rio Mesh (or Weld Mesh)

- 3mm thick
- 30m X 900mm high

Star Pickets X 30

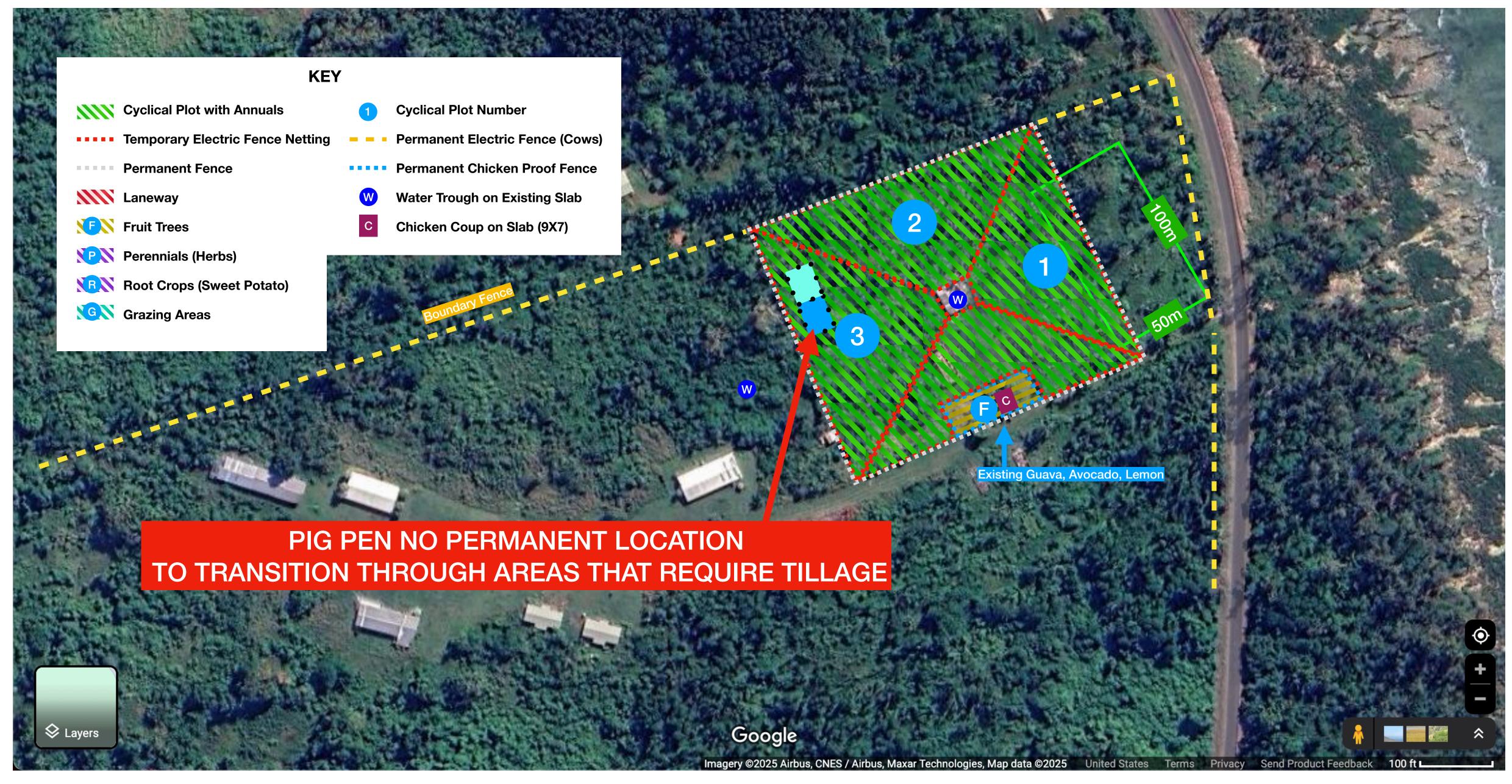
Wire

- Low tensile, easy twist, 3mm thick

Water Trough (relocatable)

- Robust with protected water fittings

Assumed all other materials for shelter available on base.





Animal Shelter

For Animal Health during the Monsoon

TASKS / SCOPE OF WORK

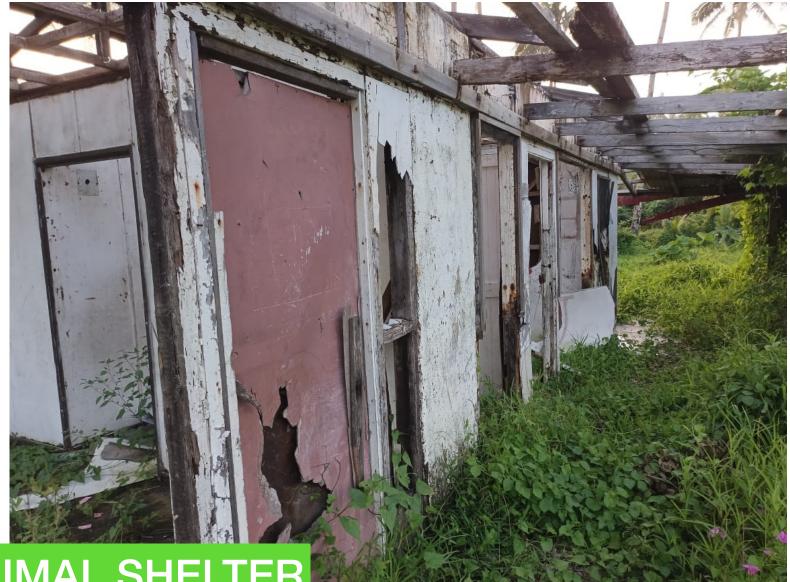
Assess the need, and come up with a workable plan

Clear the worksite

Build walls and roof









REQUIRED MATERIALS

Metal Strapping (structural)
Metal Strapping Tensioners
Clouts (2000pc)
Phillips Head Screws (5000) (45mm outdoor galvanised)
Buggle Screws (1500) (75mm outdoor galvanised)

Brace Ply (H2)

Assuming all other timber and materials can be sourced (reclaimed) from base

FUTURE



