Intervention Designs – Site Layouts (2D and 3D)

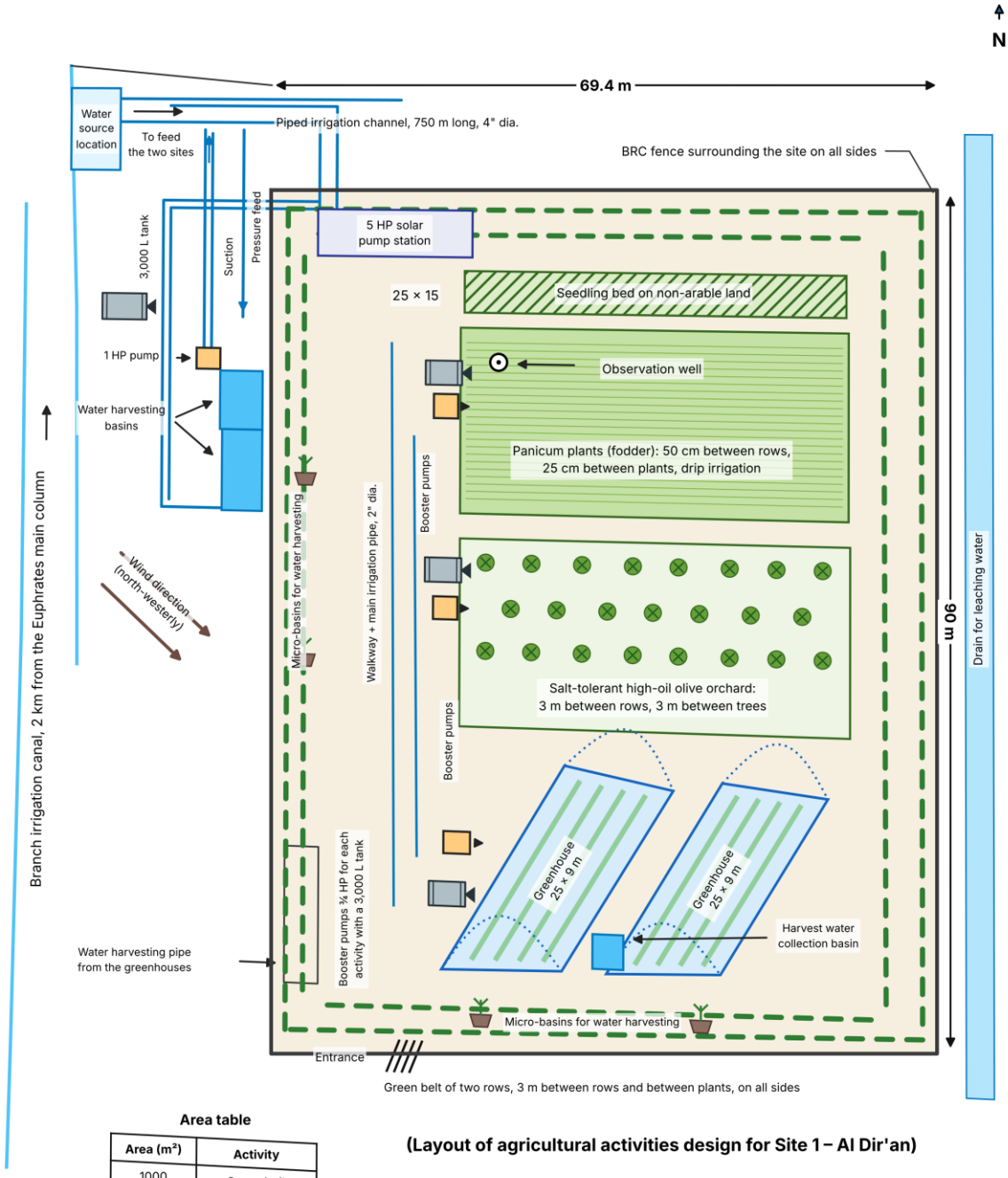
Wiqaya programme – Al Dur'an and Al Dunaif villages

These drawings are English redraws of the two hand-drawn site layouts in the design document.

Key elements

- Green belt of two rows (tamarisk and ghaf), 3 m between rows and 3 m between plants, on all sides inside the BRC fence.
- Two greenhouses, 25 × 9 m each, drawn on the diagonal as in the sketches, with a harvest-water collection basin between them.
- Site 1: seedling bed, Panicum fodder field and high-oil olive orchard. Site 2: seedling bed and tissue-culture date palm orchard.
- Water: 5 HP solar pump station, booster pumps with 3,000 L tanks for each activity, water-harvesting basins with a 1 HP pump, micro-basins, observation well and drain.

Site 1 – Al Dur’an



Area table

Area (m²)	Activity
1000	Green belt
225	Seedling bed
1250	Panicum field
1250	Olive orchard
450	Greenhouses
4175 m²	**Total**

(Layout of agricultural activities design for Site 1 – Al Dir'an)

Note: the remaining site area of 2,075 m² is used as spacing between activities, walkways and irrigation pipe routes.

Scale 1:700 (A4)

0 10 20 m

Figure 1. Site 1 (Al Dur’an) – 2D plan, scale 1:700

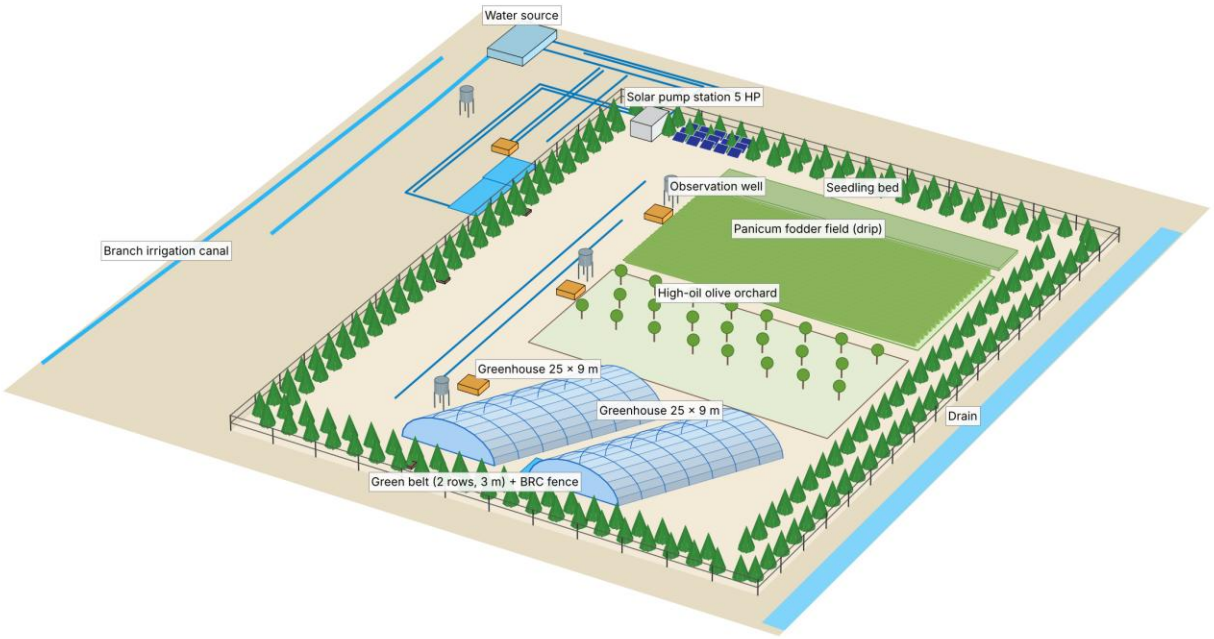
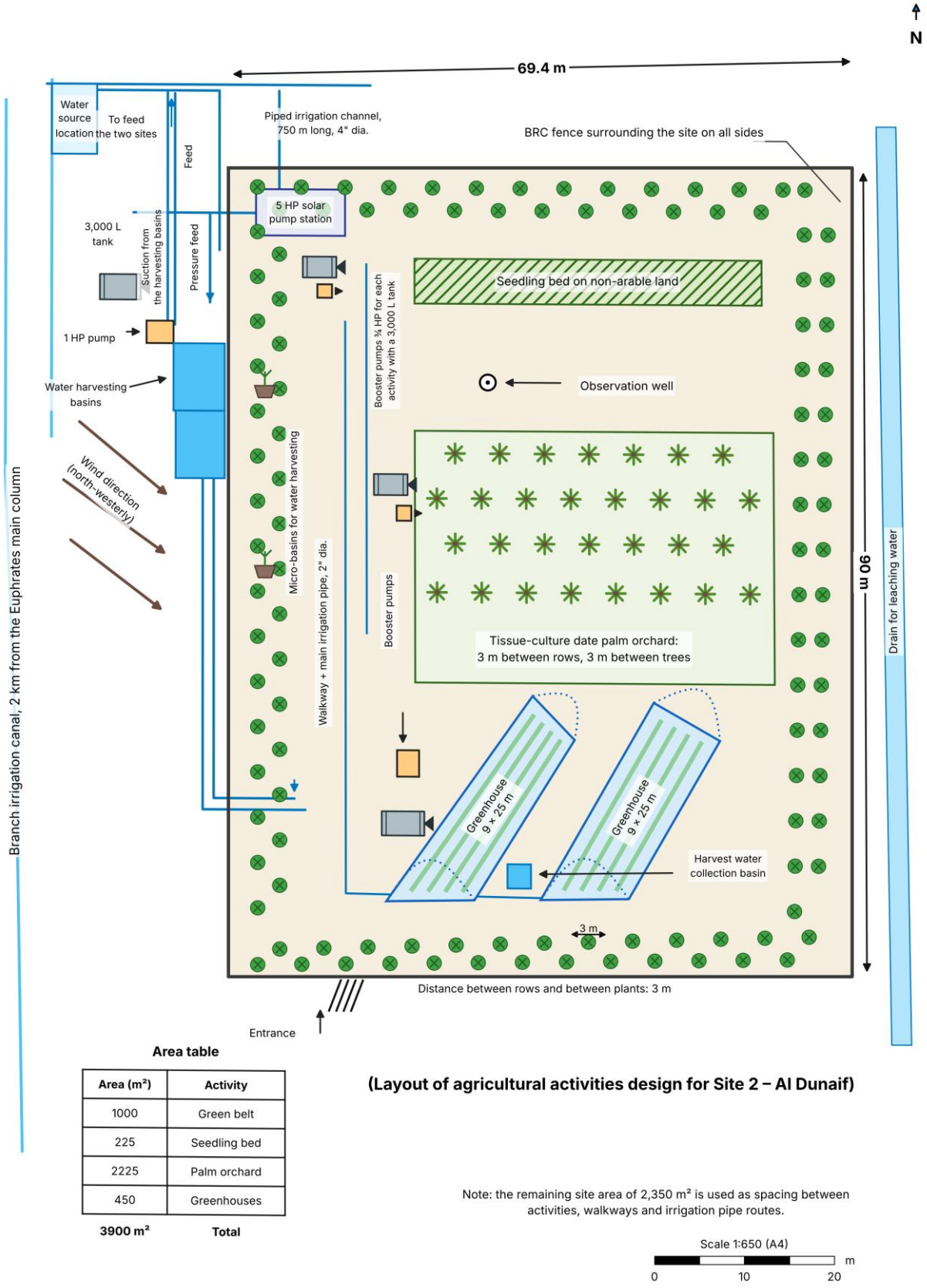


Figure 2. Site 1 (Al Dur'an) – 3D view

Site 2 – Al Dunaif



Area table

Area (m²)	Activity
1000	Green belt
225	Seedling bed
2225	Palm orchard
450	Greenhouses
3900 m²	**Total**

(Layout of agricultural activities design for Site 2 – Al Dunaif)

Note: the remaining site area of 2,350 m² is used as spacing between activities, walkways and irrigation pipe routes.

Figure 3. Site 2 (Al Dunaif) – 2D plan, scale 1:650

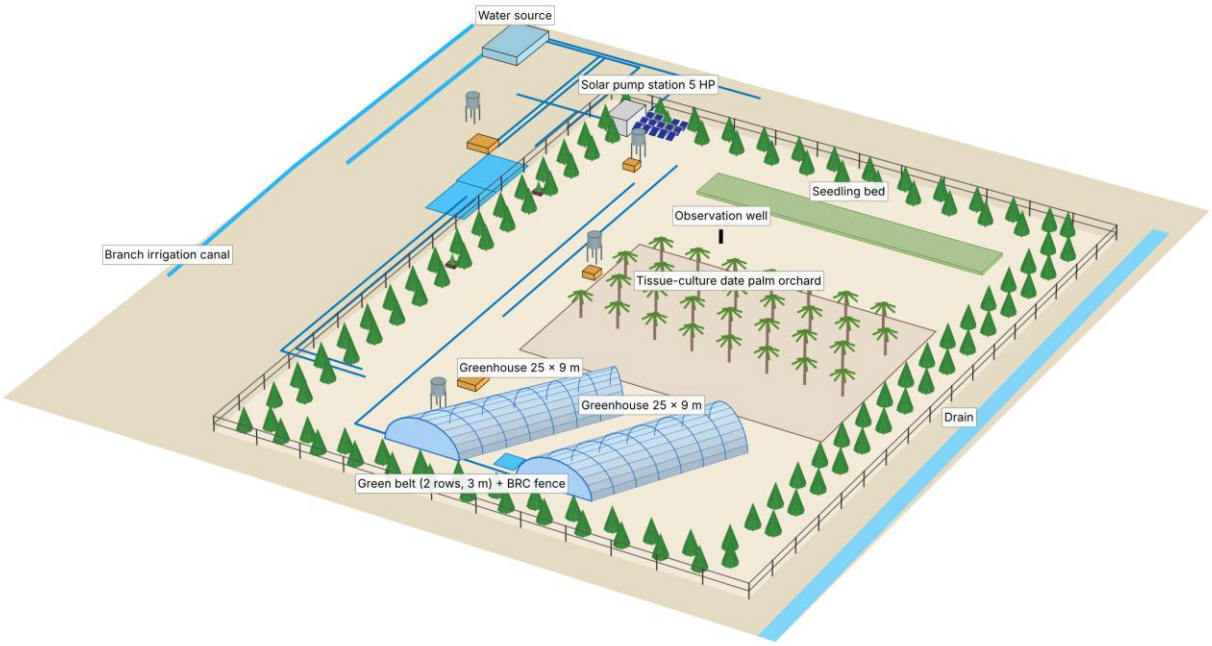


Figure 4. Site 2 (Al Dunaif) – 3D view