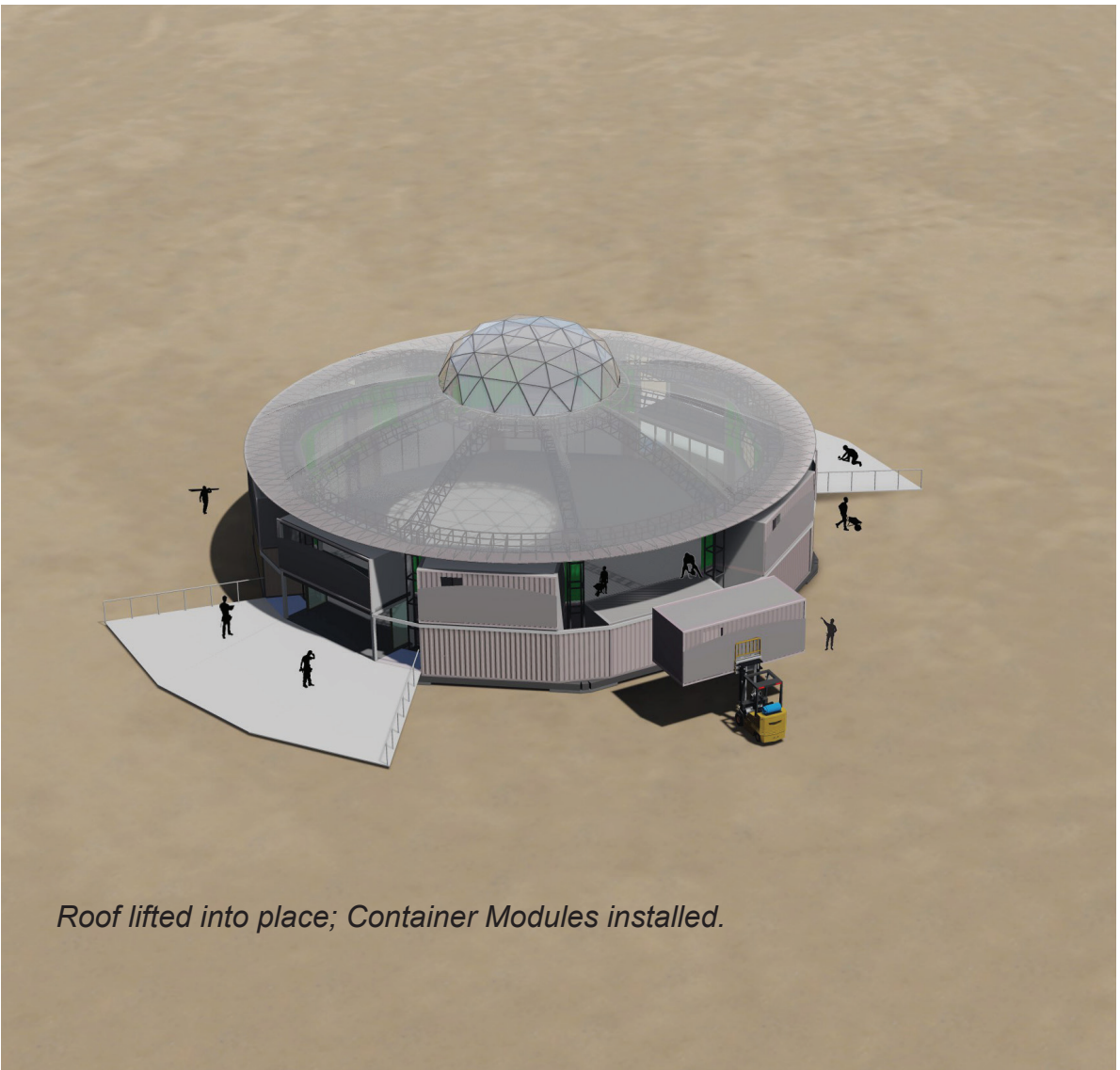# Proposed Site: Middle Fly Ranch

Site Plan Notes
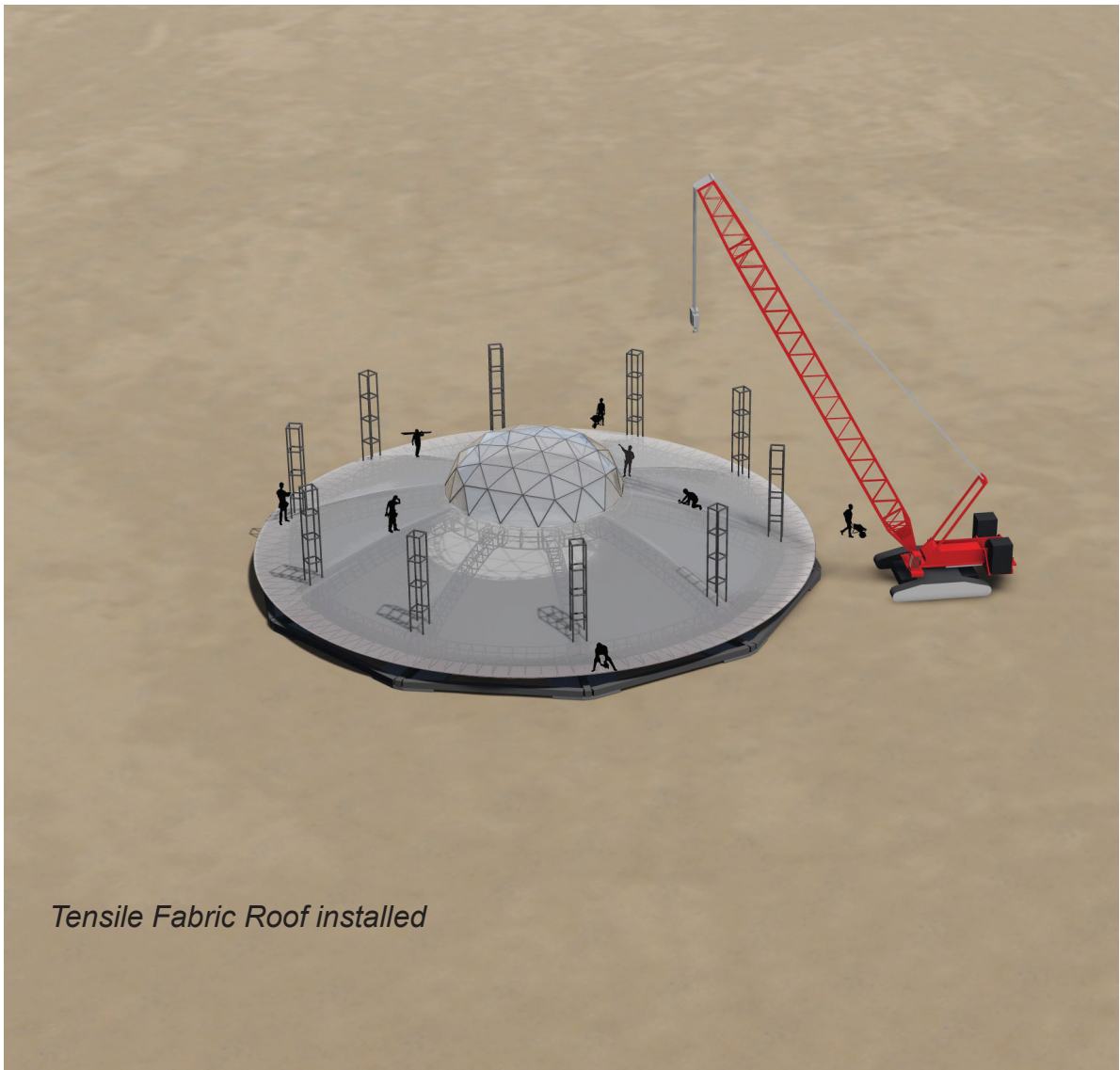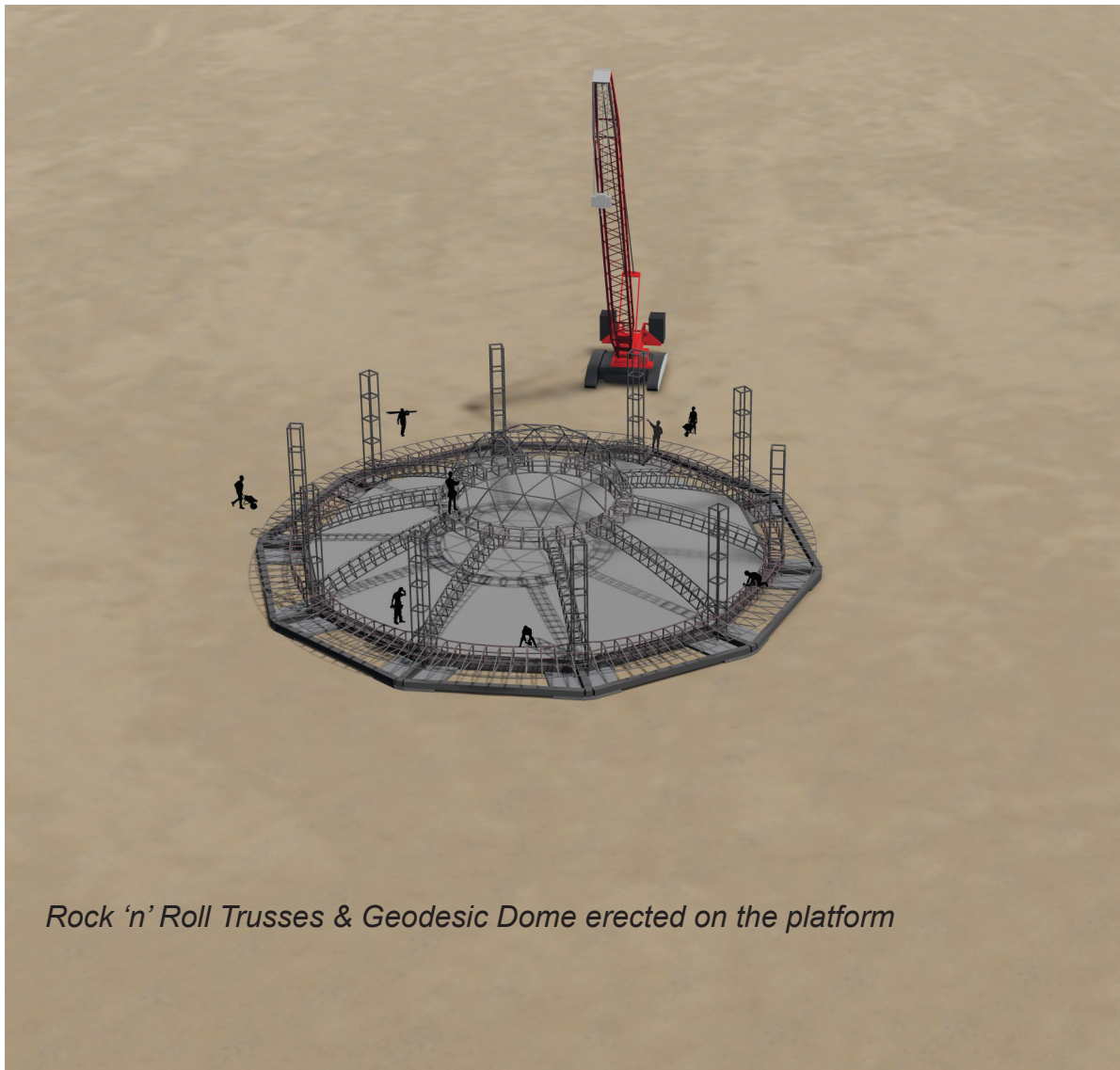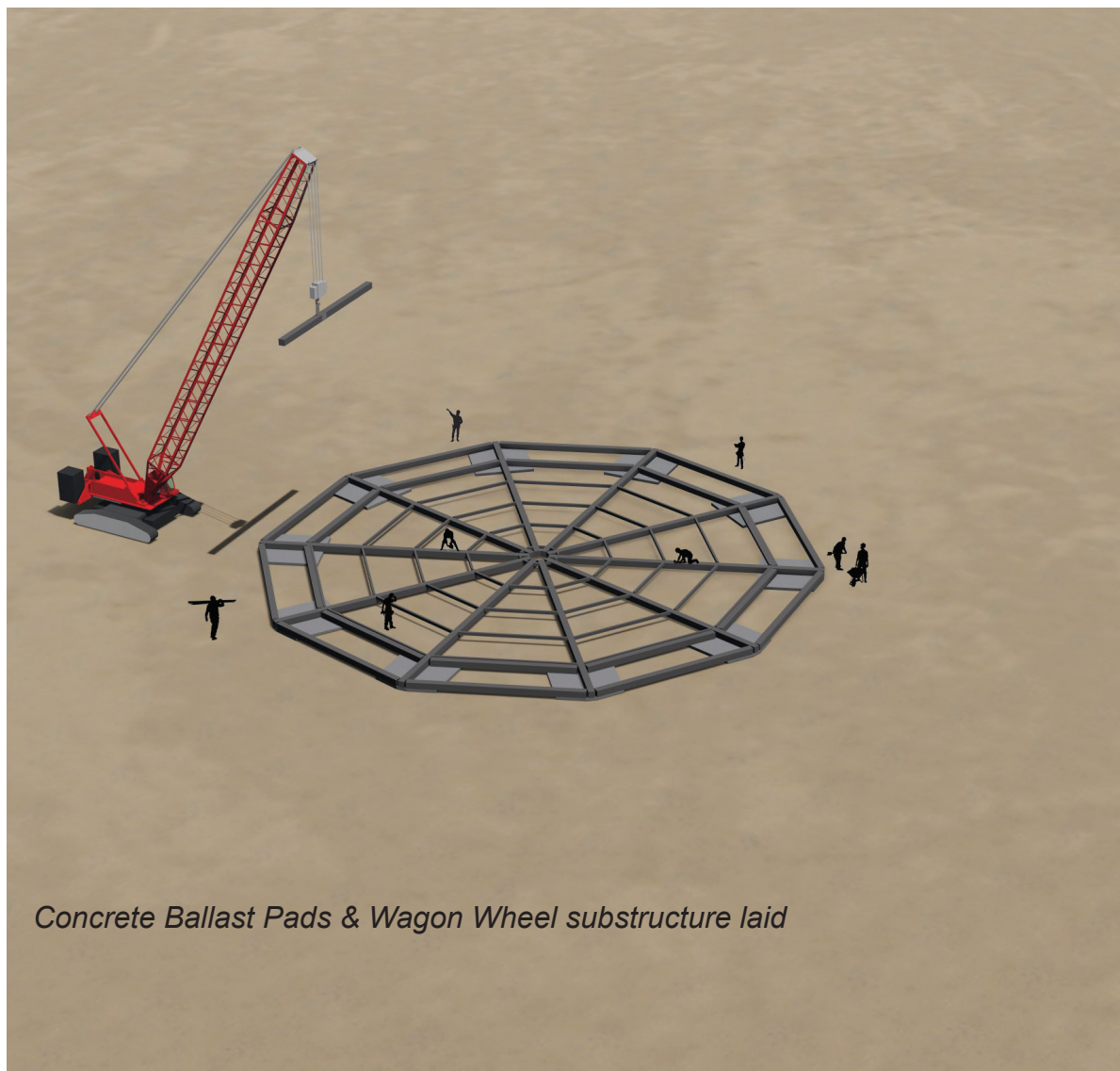
1. Entry from Co. Rd. 34 on the existing drive.
2. Road to Northern Fly Ranch
3. Road to Southern Fly Ranch
4. Entry Plaza
5. Open space
6. Campsite block
7. Infrastructure modules

Infrastructure Modules

Fresh Water
60,000 Gal. captured / Year

Roof water (A) and atmospheric generated water is captured, filtered and stored in a pair of 3,000 Gal. tanks (B) for potable water use in the interior Plumbing Modules Backup water is supplied from the nearby well (C).

Grey Water
40,000 Gal. captured / Year

Grey water from showers, sinks and the black water solar still is collected, filtered and stored in a 3,000 Gal. tank (D) Grey water supplies toilets and irrigation (E).

Black Water
1,000,000 Gal. treated / Year

Black water from toilets and other plumbing fixtures (F) is treated in a multi-step process. An advanced bio-reactor treats the water to tertiary standards. The output is pumped to a solar still on the Black Water module roof. The treated water evaporates and the clean moisture is captured by atmospheric water generators filtered and supplied to the fresh water module (G). Excess treated water is supplied to the Grey Water Module. The Bioreactor is emptied once a month as supply for composting units (H).

Food Production

(3) Food production modules provide fruits and vegetables for the Kitchen in the Starship (I). These greenhouses are placed on top of storage or composting units.

Solid Waste

Kitchen scraps and output from the Bio-reactors are combined in 2 Composting units (6-8 week processing time each)(J). Recycling waste is sorted in the solid waste module (K) for use in the community.

Power
240,000 kWh / Year

Power is generated from a series of (10) 2kW PV arrays mounted to infrastructure module roofs and supplemented with (2) 36 kW solar tracker PV arrays mounted on mobile trailers. Solar Electricity is collected (L) is stored in (2) battery modules (600 kWh storage)(M) to Power the Starship .

Storage Modules

(5) Storage modules provide on-site storage for the Kitchen module (dry storage and refrigerated goods) and general storage for the Starship.

Construction Sequence

Concrete Ballast Pads & Wagon Wheel substructure laid

Rock 'n' Roll Trusses & Geodesic Dome erected on the platform

Tensile Fabric Roof installed

Roof lifted into place; Container Modules installed.

Infrastructure Schematic