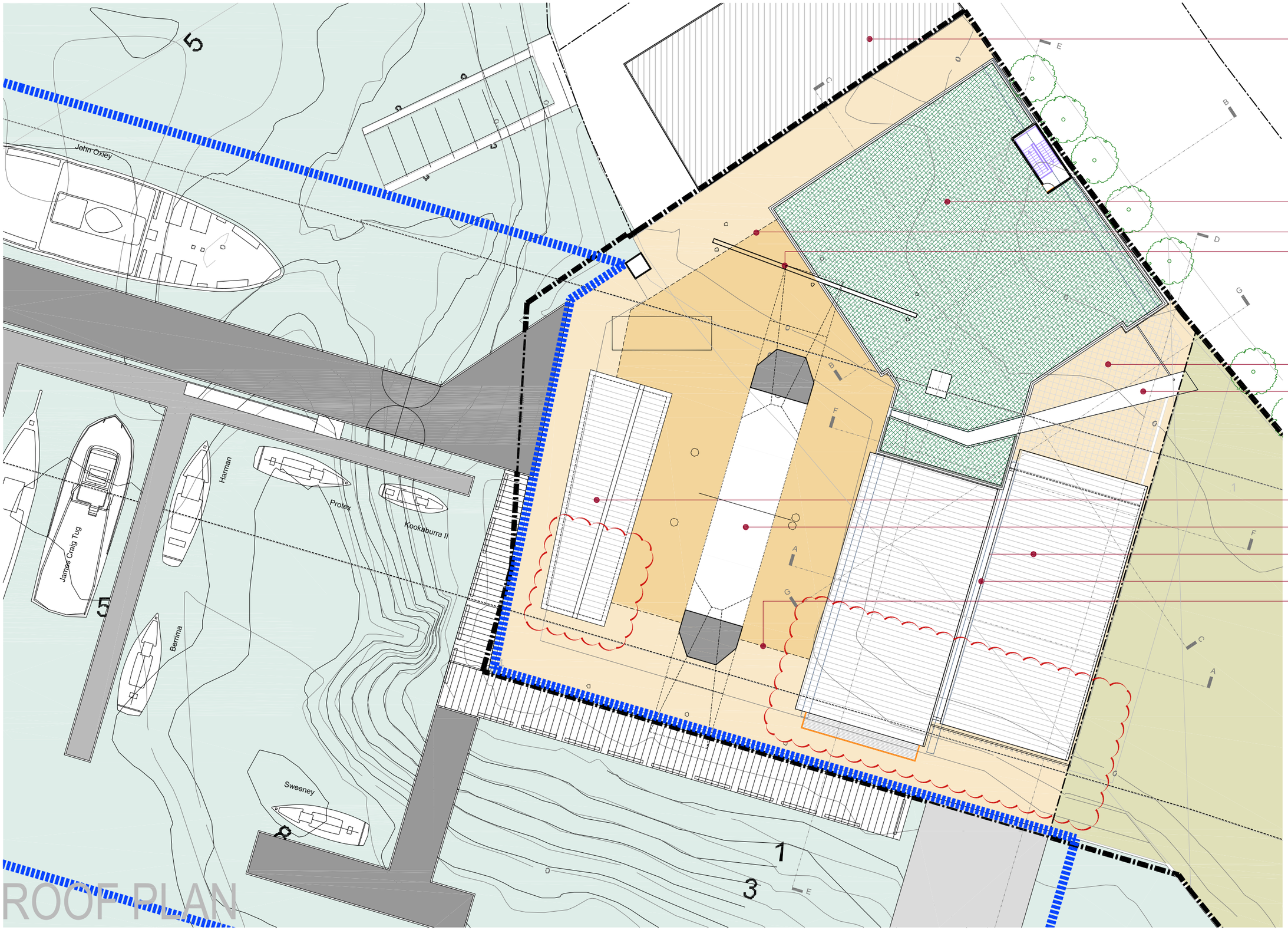

EXTENSIVE GREEN ROOF NOTES:
- Can reduce urban heat islands by providing shade and through evapotranspiration (the release of water from plants to the surrounding air);
- Absorb air pollution, collect airborne particulates, and store carbon;
- Filter pollution from rainwater. This is achieved by the root systems' bacteria and fungi, which utilise the natural filtering processes of bioremediation and phytoremediation. As a result, the non-point source pollutants (nitrogen and phosphorus) are broken down and detoxified, with the process increasing over time as plants and root systems mature;
- Protect underlying roof material by eliminating exposure to the sun's ultraviolet (UV) radiation and extreme daily temperature fluctuations.
- Serve as living environments that provide habitats for birds and other small animals;
- Reduce noise transfer;
- Insulate the building from extreme temperatures, mainly by keeping the building interior cool in the summer;
- Generally be low maintenance.

SYDNEY HERITAGE FLEET BASE - Environmental Assessment

BANK STREET - PYRMONT - LOT 19 and LOT 20 - D.P.803159

ROOF PLAN
SK43 - C 2013.05.27
Scale 1:200 @ A1

© CRAWFORD ARCHITECTS PTY LIMITED 2010
Suite 100, Jones Bay Wharf, Pirrama Road, Pyrmont NSW 2009 T 02 9660 3644 F 02 9660 3622 ABN 56 120 779 106

Date Nov 2012

Project No 0811