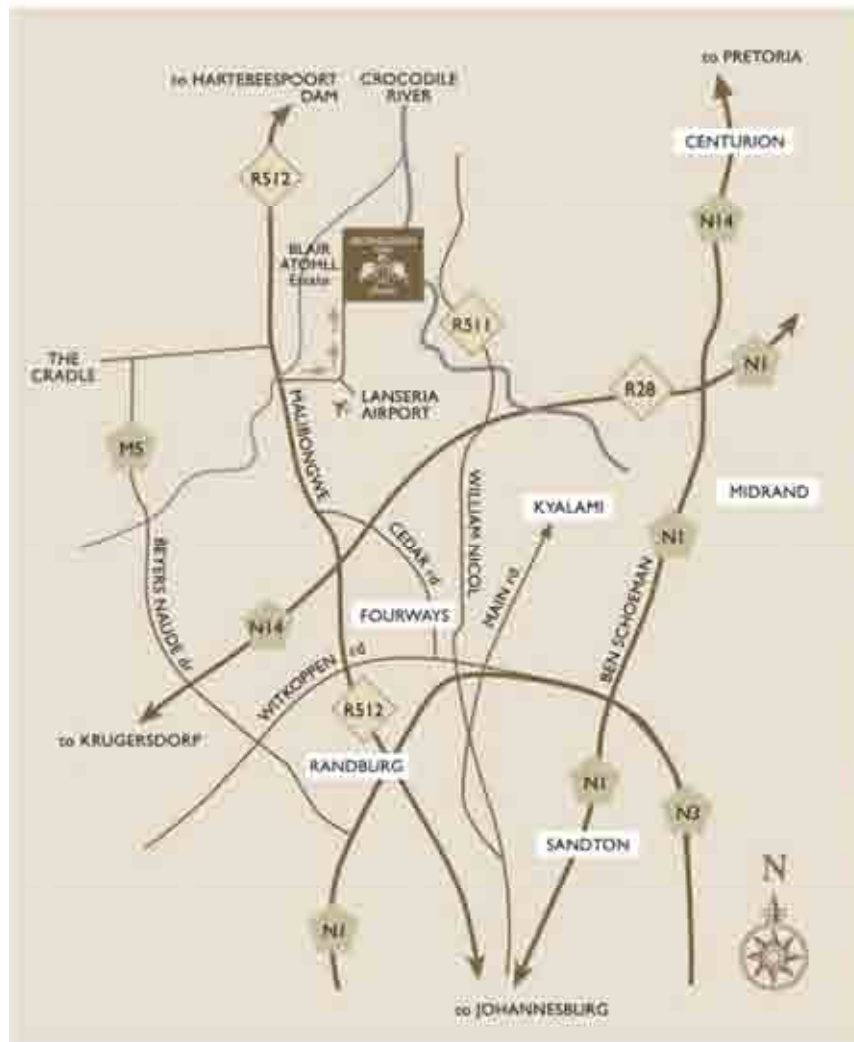
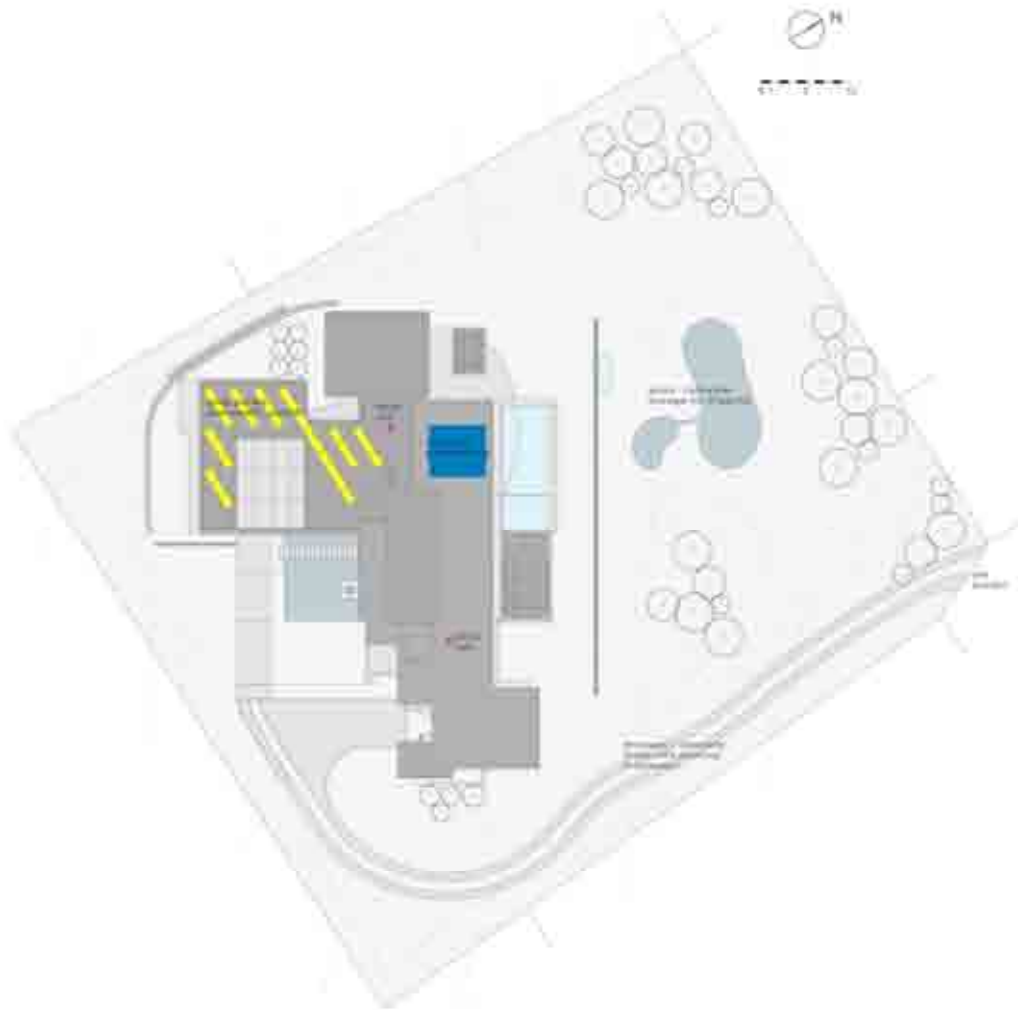




h o u s e f o r b e s m o n a g h a n f a r m



house forbes monaghan farm



site plan



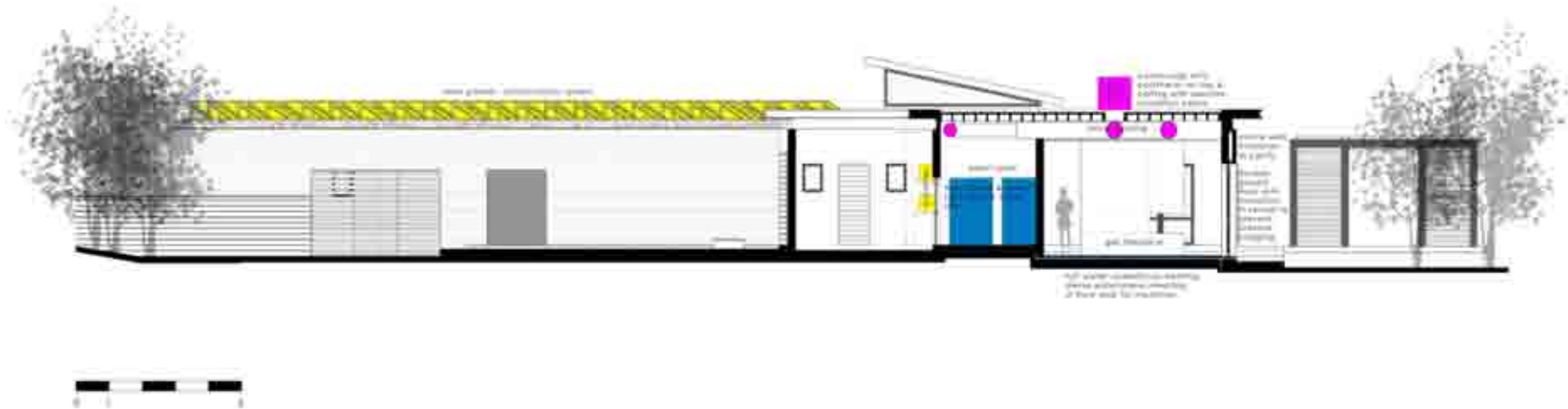
h o u s e f o r b e s m o n a g h a n f a r m

layout



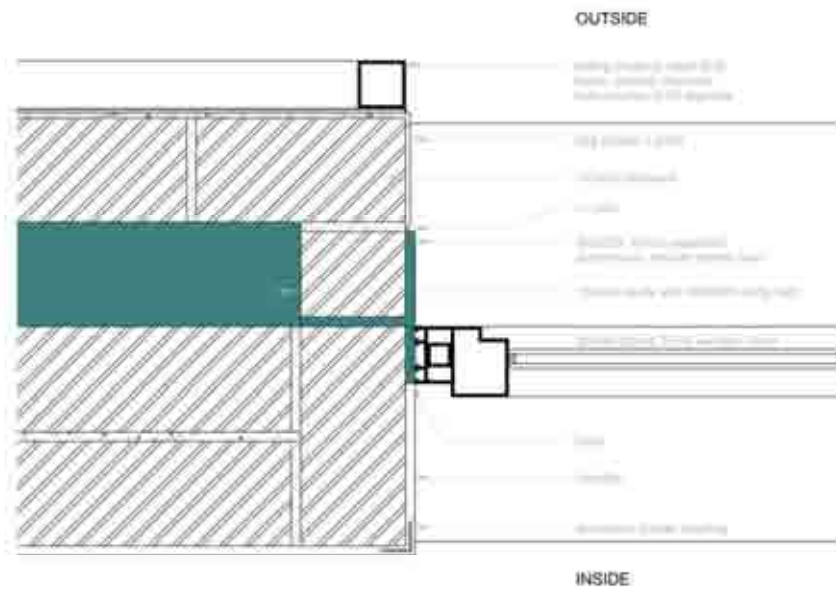
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section

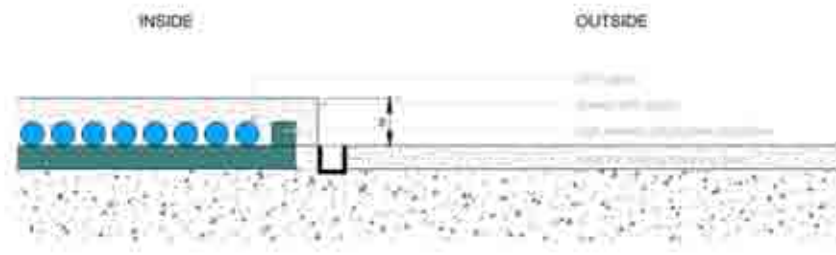


h o u s e f o r b e s m o n a g h a n f a r m

Insulation



TYPICAL DETAIL OF WINDOW / DOOR REVEALS (PLAN)
1-5



TYPICAL DETAIL OF THRESHOLD
1-5



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water heating systems . . . underfloor heating, domestic hot water, pool water.



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photovoltaic system



h o u s e f o r b e s m o n a g h a n f a r m

electrical installation facts

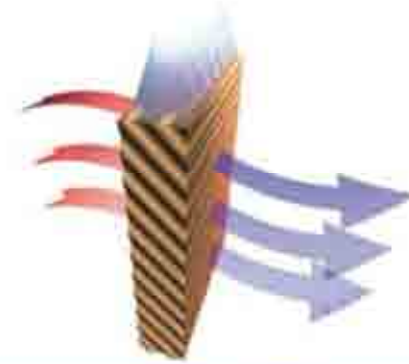
- 24 x 220W solar panels (potential for additional 6 panels)
- 24 x 2V battery cells providing 900Ah
- 2 x 80W regulators
- 4 x 3kW inverters

- on a sunny day the system produces 36.94 kWh of which 32.78 kWh is usable
- the system supports the small power (excluding external installation, staff unit, heat pumps, brivis units & pool pumps) & lighting installation in the house (731 sqm)
- the house is automated with an intellibus home automation system which assists in reducing electrical consumption by switching off appliances when the house is unoccupied and switching off the children's wing / zone when unoccupied
- the house is fitted with energy efficient LED lights which consume approximately 80% less power than halogen low voltage lamps
- in spring / summer conditions the house is 100% off the grid (excluding the external installation)

for more information please contact Gobby Oliver Ben CEB Consulting Engineers - 082 876 768 / gobbyol@ch.ie

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evaporative cooling systems -
mechanical and natural



h o u s e f o r b e s m o n a g h a n f a r m

gas ... fireplaces, heaters,
water heating units, hobs



h o u s e f o r b e s m o n a g h a n f a r m



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and associates architects