### Marlowe Road, London A Blue Green case study



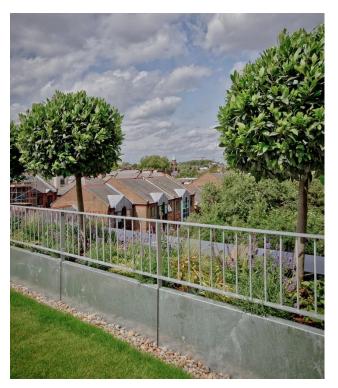


Roger Holdsworth, Partner Pollard Thomas Edwards

PTE has designed and built a number of large blue green projects including:

- Quads, Cambridge
- Marlowe Road, London
- Highbury Quadrant, London
- Grahame Park, London
- North West Cambridge
- Hall Street, London







## Grahame Park, London 3,500 home masterplan, Phase 1 complete

#### Pollard Thomas Edwards



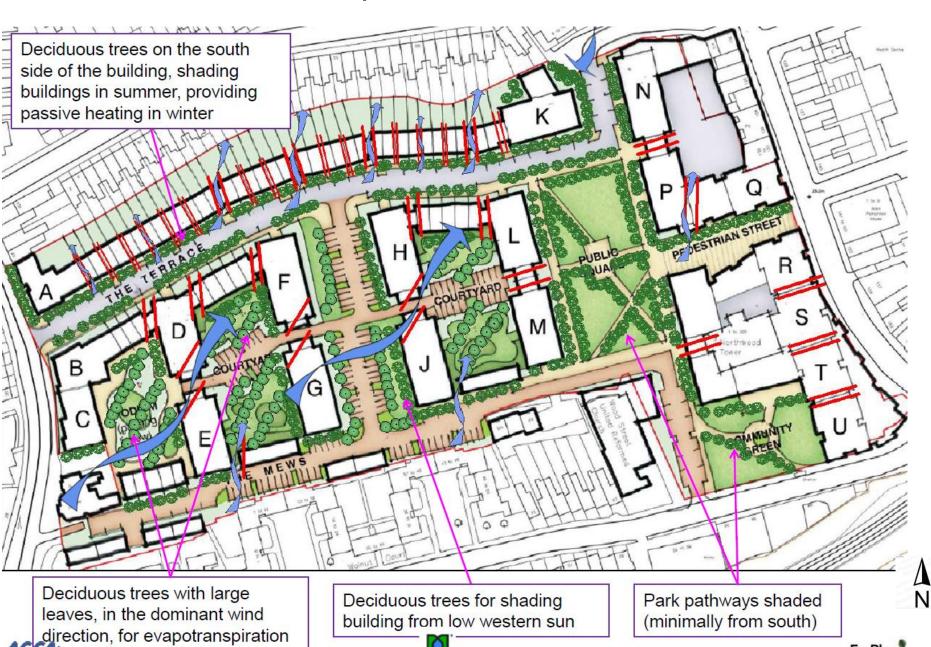




## Case study – Marlowe Road, London 500 homes and mixed use



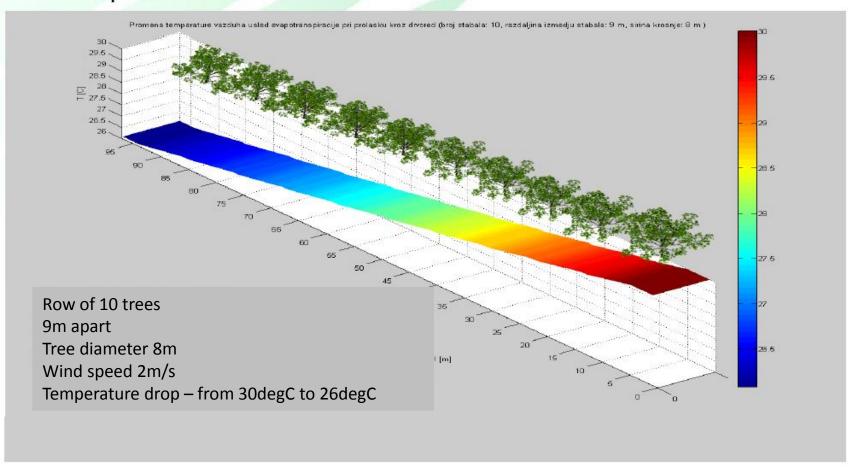
#### 1. Blue Green landscape + distribution of trees



En Plus

#### Outdoor Environment cooling with trees

Based on previous projects the outdoor temperature drop of 3 to 4 deg.C could be expected with proper trees and building massing design. This phenomenon directly influence outdoor comfort and buildings energy consumption.





- Model without trees

Total solar radiation on building facade during Jun,Jul,Aug: 114.7 kWh/m2







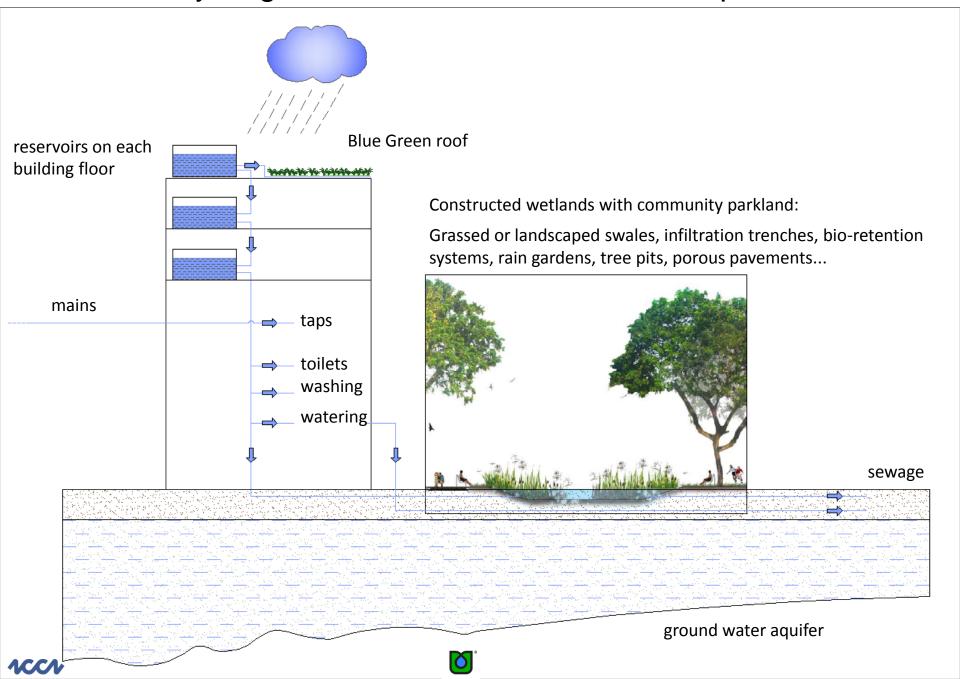
Model with proposed trees layout

Total solar radiation on facade during Jun, Jul, Aug: 83.1 kWh/m2 (reduction 38.0%)





#### 2. Water Recycling - Blue Green roof and landscape



#### 3. Blue Green roof gardens – shared urban amenity







**BUILDING CORE(S)** 

URBAN GARDENS
Each apartment unit
has its own little
garden

COMMUNITY CONSERVATORY/ GREEN GARDEN Tenants use

Roof porous walking paths



Philadelphia's vision

# Our future cities? Thankyou!

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Thanks for environmental modelling and images by ENPLUS
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