

**Energy Efficiency Notes**

200lt SABS approved water heater to be installed within roof of dwelling.  
 3.5kW SABS approved Kwikot Heat Pump to be fitted in the position indicated on plan.  
 All hot water service pipes to be clad with a minimum R-value of 1.00 (i.e. 40mm fibre glass or 50mm polyester blanket insulation).  
 100mm thick Aerolite (Think Pink) Fibre Glass bulk blanket insulation to be installed in roof.  
 Roof to be ventilated.  
 Not more than 50% of hot water may be heated by conventional geyser.  
 Maximum permissible air leakage for openable glazing to be 2.0 L/s. square metres with a pressure difference of 75Pa.  
 Maximum permissible air leakage for non openable glazing to be 0.31 L/s. square metres with a pressure difference of 75Pa.

**Precast Concrete Fence Notes**

Precast concrete walls not to retain in excess of 300mm.  
 Precast concrete wall nor foundations to encroach over the boundary.

**Hot Water Demand**

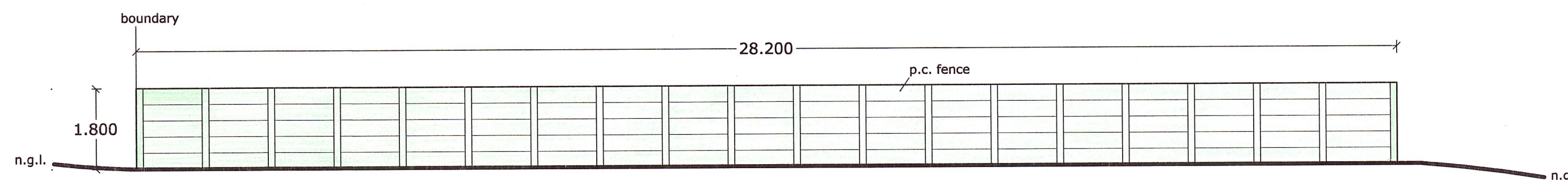
Assumed hot water consumption of 90 litres per person per day. Assumed 6 persons in respect of 3 bedroom dwelling.  
 6 persons x 90 litres = 540 litres daily hot water consumption. Therefore 270 litres daily hot water to be supplied by means other than electrical resistance heating i.e. Kwikot Heat Pump.

**Energy Efficiency Notes**

100mm thick Aerolite (Think Pink) Fibre Glass bulk blanket insulation to be installed in roof to proposed enclosed verandah.  
 Roof to be ventilated to be ventilated by means of ventilated roof tiles.  
 External walls comply with the minimum R-value of 0.35 in accordance with SANS 10400 XA Part 4.4.3.  
 Minimum required R-value for roof is 2.7 with a downward heat direction.

**General Notes**

The parameters upon which the foundations are to be determined and cast to be in accordance with the geotechnical engineers site investigation report.  
 750 x 250 concrete strip foundations, or to professional engineers details. See also Geotechnical Site Investigation report.  
 100mm concrete floor slab reinforced with ref. 193 weld mesh on 250 micron SABS approved membrane underlay on 50mm blinding layer of clean river sand on 150mm hardcore poisoned with Chlorodane solution by specialist in accordance with SANS 10124.  
 Panel size not to exceed 2.5m in accordance with SANS 10400J.  
 SABS approved malthoid damp proof course to be provided.  
 Two courses brickwork to be reinforced with brickforce in solid cement mortar at window cill and wall plate levels.  
 Lintols to be designed by the appointed structural engineer.  
 Concrete roof tiles on 38 x 38mm battens on approved underlay on gangnail trusses at maximum 760mm centres to additions to ex dwelling.  
 Roof pitch to be 17 degrees.  
 Trusses to be tied down with two strands of 2.4mm diameter galvanized steel wire embedded in the wall to a minimum depth of 400mm all in accordance with SANS 10400L.  
 Roof structures to be certified by the appointed structural engineer after erection.  
 Trusses to be erected true and plumb and to be braced.  
 Rhinoboard ceilings and cornices.  
 Smooth plaster and paint finish internally and facebrick finished externally to dwelling and prop north west boundary wall.  
 Fibre cement fascias, bargeboards and 125mm diameter P.V.C gutter and 75mm diameter P.V.C downpipes to ex dwelling.  
 Stormwater to be connected to existing domestic stormwater systems which discharges into municipal stormwater pipe as indicated.  
 Room dimensions as shown fully complies with SANS 10-400 - C.  
 Proposed boundary walls to be constructed under the supervision of the appointed structural engineer whilst  
 South West wall to be constructed of faceblock as indicated on the elevation of such wall.



**South West Elevation**

North East P.C. Fence

1:100

Architects Plan No. JAL-2012-14

Authors Signature : *F.A. Littlefield*

Owners Signatures : *[Signature]*

**SITE CLASS DESIGNATION**

The attention of the owner is drawn to the fact that deviations to this plan and / or specifications after formal approval is likely to invalidate such approval.

**CLASSIFICATION H3**

**LITTLEFIELD & ASSOCIATES**  
*Specialists in Residential Developments*

**Proposed Alterations and Additions to Existing Dwelling for Mr. S. Singh at 100 Nerina Road, Springfield. Portion 7 of Erf 306 of Springfield.**