



NOTES:

Impermeable Area within the site
2.588 hectares

Approximate ground levels within site

Proposed Balancing Pond designed to accommodate 100%+CC(30%) Storm Size based on total impermeable area of 2.588 hectares. Discharge restriction set at 29.6 l/s peak for all events.

Pond areas

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|--------------------|
| 154.90mOD = 1172m2 |
| 154.70mOD = 1012m2 |
| 154.50mOD = 855m2 |
| 154.30mOD = 701m2 |
| 154.10mOD = 555m2 |
| 153.90mOD = 423m2 |
| 153.70mOD = 311m2 |

Crate Storage to be provided within car park and yard areas of individual units. Total of 484m2 by 0.8m deep to be provided within site. Crates shown within lower areas of site. However, this could be distributed within all units if appropriately sized hydro-brakes provided. This strategy only shows 4 areas of crates. Optimum rainfall duration is 360 minutes.

Crate storage areas 121m2 by 0.8m deep with biomat to give source control treatment

- With regard to water quality considerations for the site, it is recommended that 1 treatment train is provided for building roofs and 2 treatment trains are provided for building runoff. It is proposed to use riprap drainage swales to provide 1 treatment train.
- It is proposed that the attenuation will be provided in the form of a single large pond, designed in accordance with the recommendations of CIRIA 6007. A sub 5.7m high is of this type. The current drainage strategy is to direct the whole of the site to an existing pond. As such, flows will constantly be running through the pond prior to following 4 treatment techniques which are all considered to be high quality.
- Detention Basin
- Shallow wet land - two areas have been provided within the pond
- Wet open channel linking the two shallow wet lands
- Filtration within the basin - although permeation of the subsoil is poor, which results in infiltration devices failing to meet the half empty time criteria, infiltration will still occur within the wet land areas.

| REV | DESCRIPTION | DATE |
|-----|--------------|----------|
| 0 | For Approval | 2009/15 |
| A | For Approval | 15/10/15 |
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PROJECT
Luke Lane Brailsford

CLIENT
Broadfield Project
Management Ltd

DRAWING TITLE
Drainage Layout

| SCALE | DATE |
|---------------------------|------------------|
| 1:700 | 15/10/15 |
| DRAWN BY LJF | CHECKED BY JF |
| DRAWING NO EWE/1845/01 | REVISION A |