

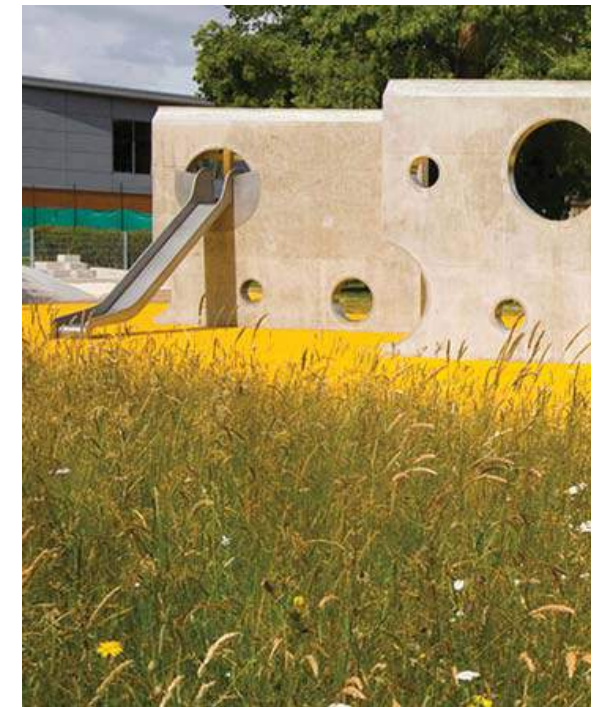
Shared Amenity With Sculptural Play



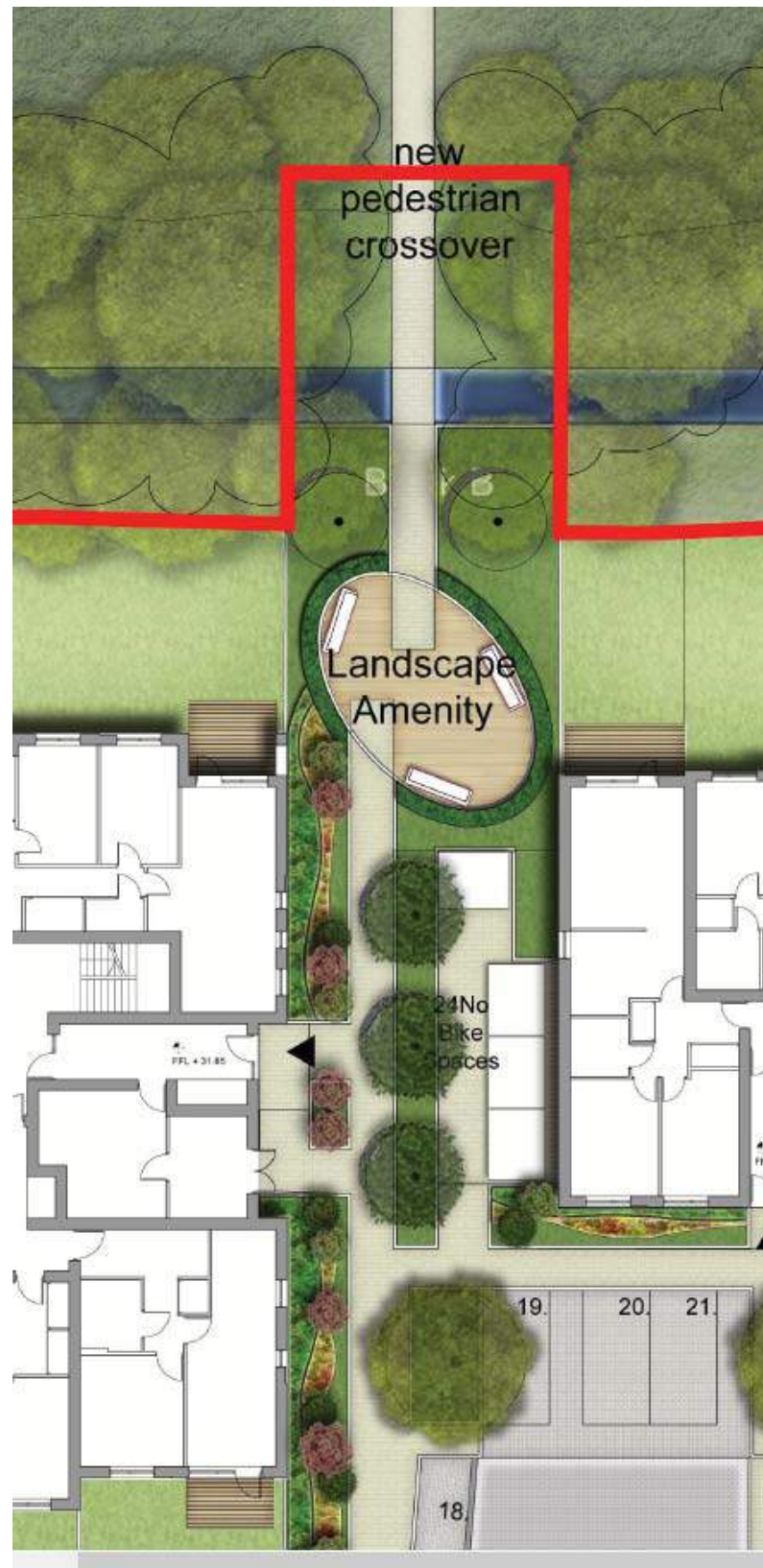
SHARED RESIDENTIAL CONTEMPORARY AMENITY SPACE

DOOR STEP INTEGRATED SCULPTURAL PLAY

- A place to relax &
- Natural integrated play
- Local habitats PROVIDING FAUNA & FLORA
- Providing a soft setting natural materials
- Provision of equipment 0-11
- Seating and gated for ages



The Green Links To Belmore Playing Field & Meadows



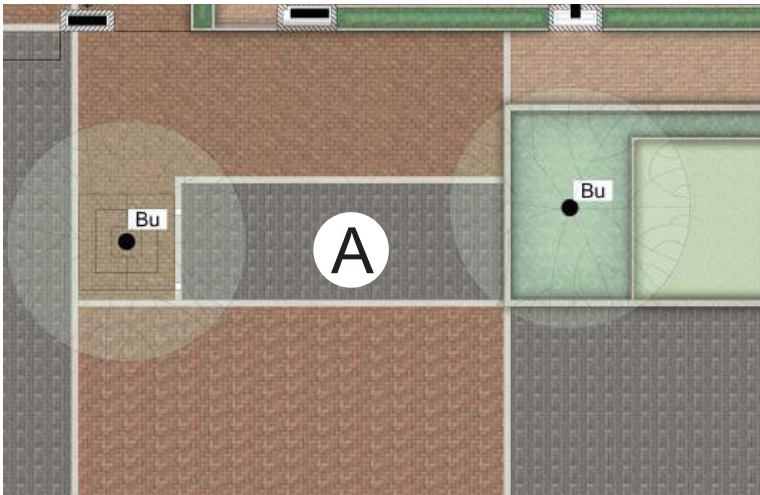
THE GREEN LINK TO BELMORE PLAYING FIELDS

ECOLOGY PLATFORM

- A place to appreciate local ecology
- Linking the site to the meadows
- Providing a soft setting natural materials
- Provision of educational boards
- Seating for all ages



Street Design Development



A - PAVING PRECEDENT

STREET DIMENTION 25M



MATERIAL PALLET OPTION 1
STONEMASTER PAVING OR
EQUAL

MATERIAL PALLET OPTION 2
URBAN PAVE PAVING OR
EQUAL



AMBER BUFF



NATURAL BUFF



SIENNA BUFF



LIGHT GREY



DARK GREY



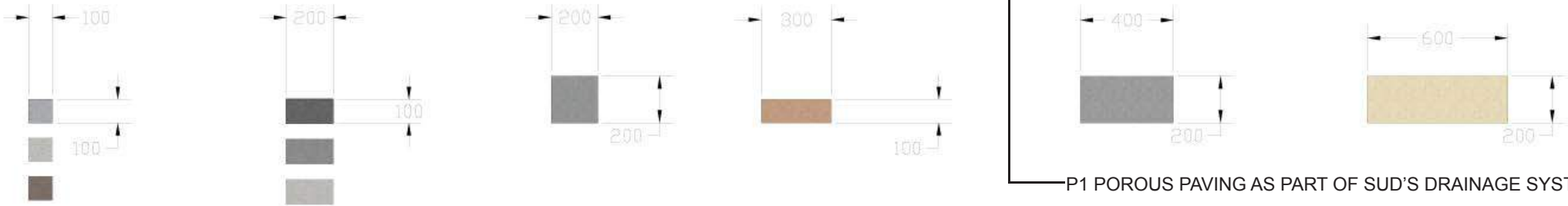
MID GREY



LIGHT GREY

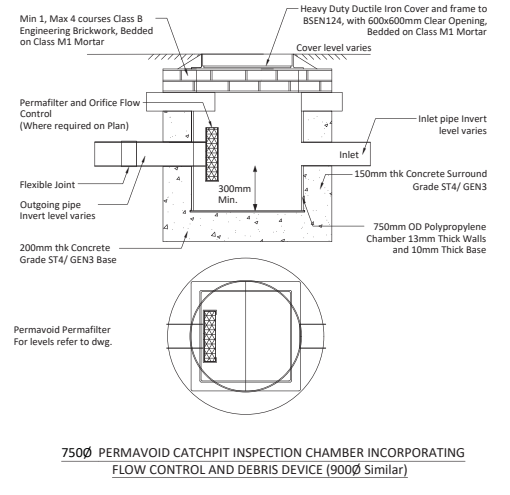
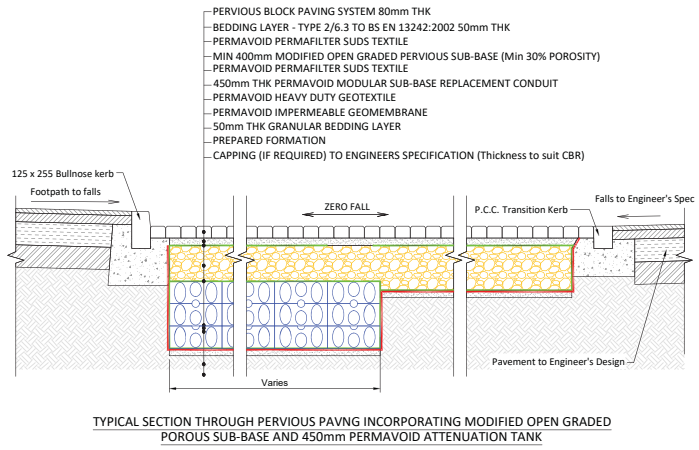
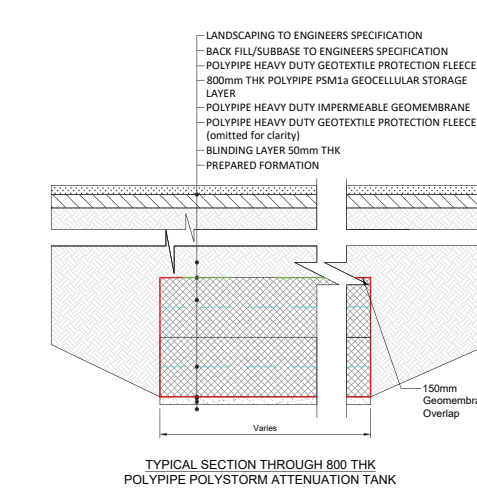
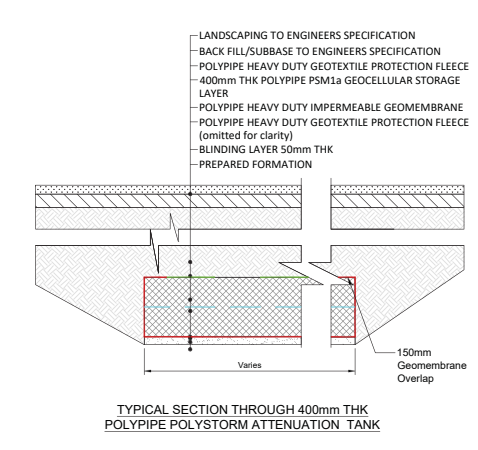
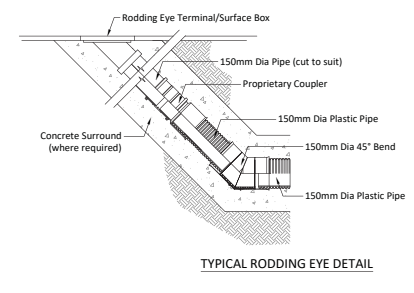
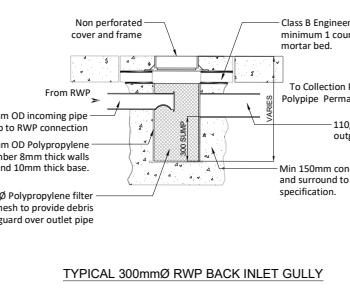
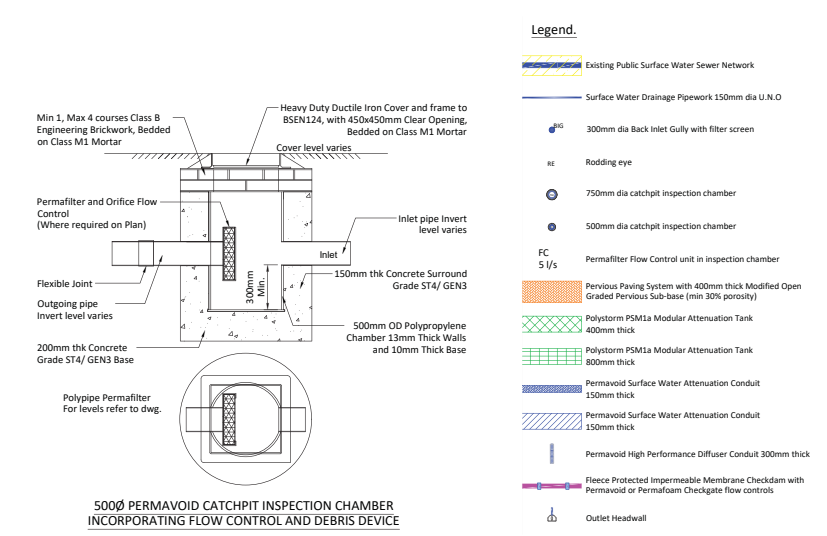
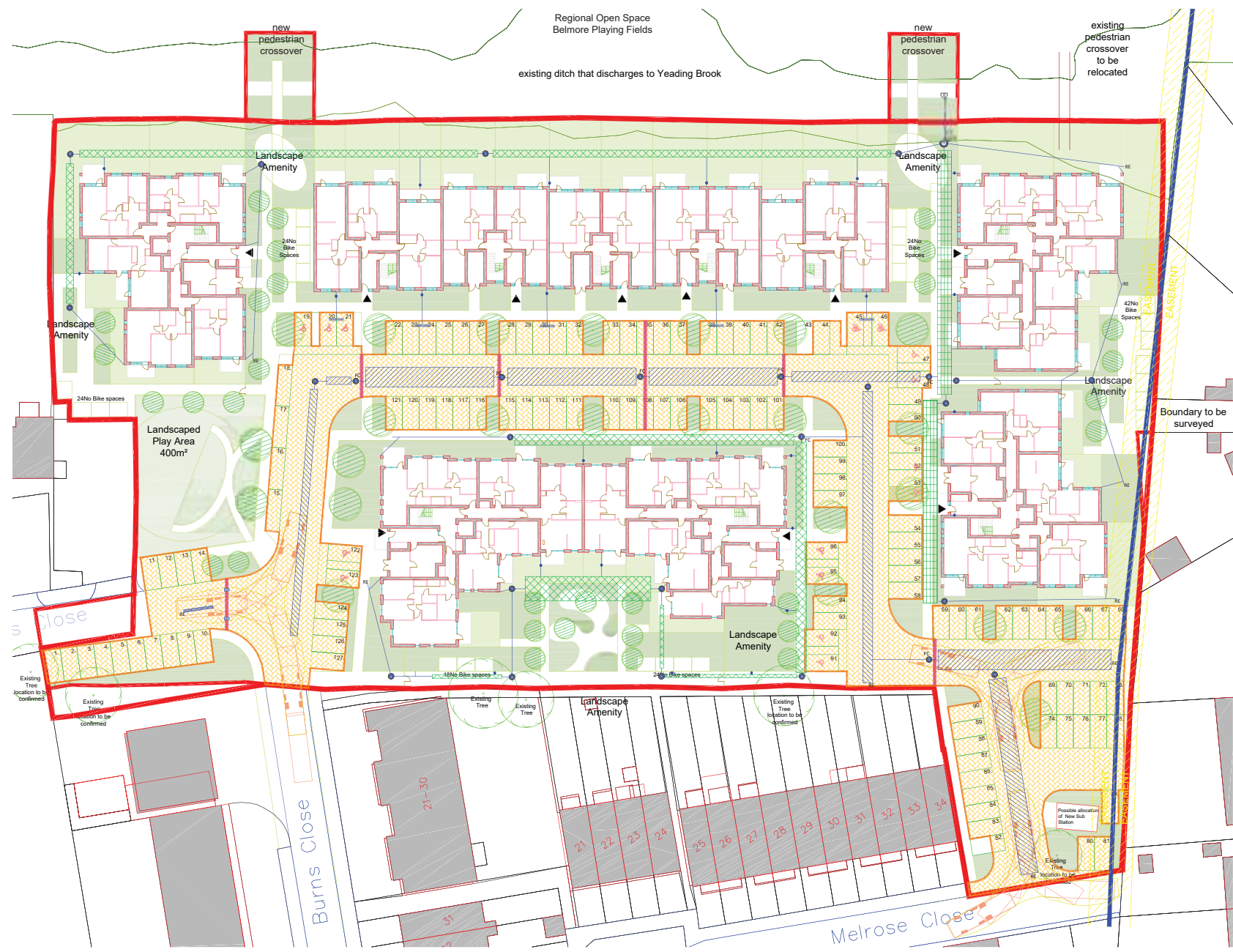


PAVING UNITS SIZE



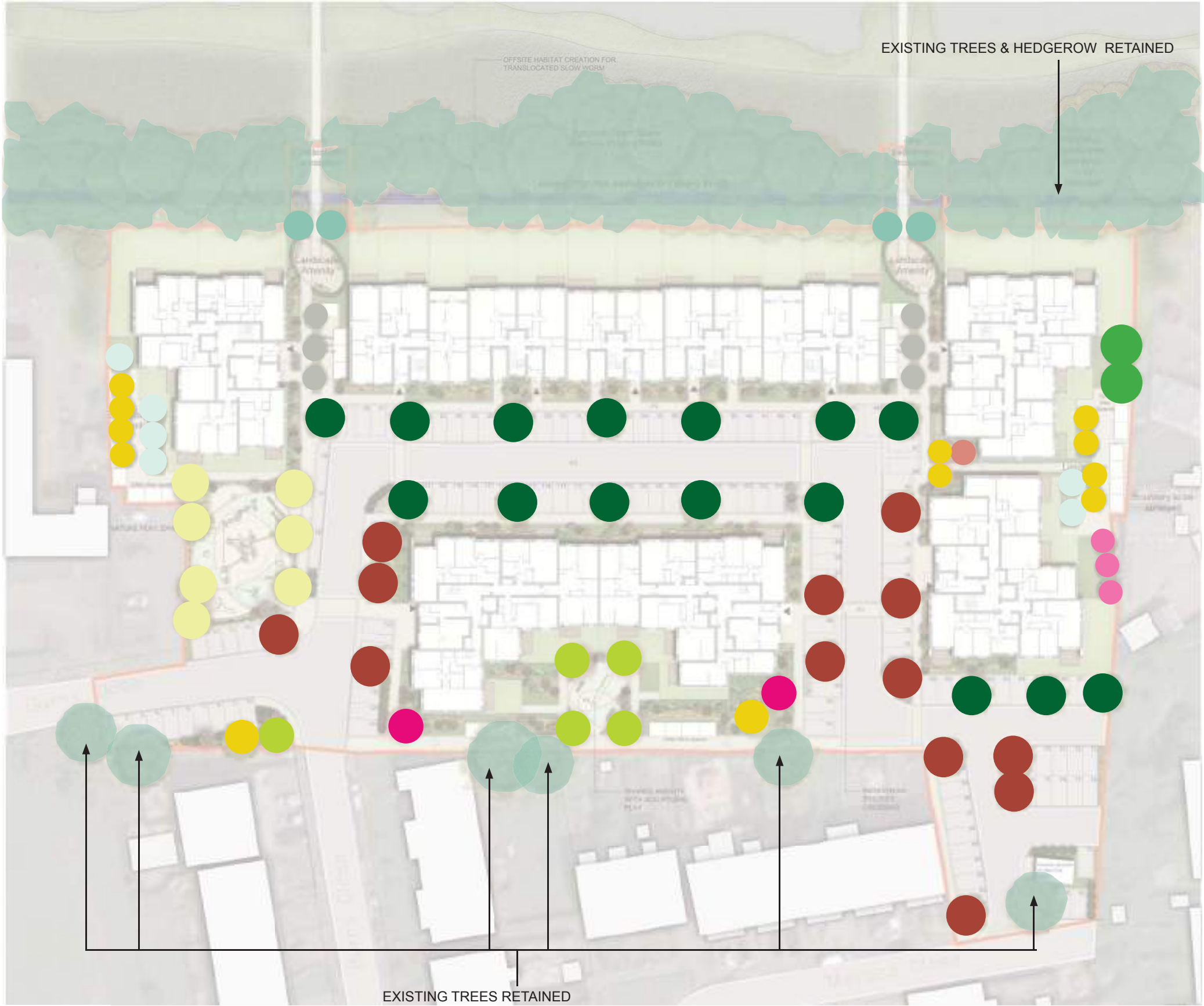
P1 POROUS PAVING AS PART OF SUD'S DRAINAGE SYSTEM

Surface Water Management Plan & Details





Landscape Tree Replacement & Enhancement Strategy



- TREE PLANTING TYPE
- T1 - NATIVE TREES - LONDON PLANE
(PA - PLATANUS ACERIFOLIA)
SEMI- MATURE 50-60CM GIRTH
 - T2 - STREET TREES - HORNBEAM
(CA - CARPINUS BETULUS)
SEMI- MATURE 30-40CM GIRTH
 - T3 - FEATURE TREES - SWEETGUM
(LS - LIQUIDAMBAR STYRACIFLUA)
SEMI- MATURE 30-40CM GIRTH
 - T4 - AVENUE TREES -
FIELD MAPLE OR LIQUIDAMBAR
(AC- ACER CAMPESTRE)
SEMI- MATURE 25-30CM GIRTH
 - T5 - ORNAMENTAL TREES -
ORNAMENTAL CHERRY
(PS - PRUNUS SERRULATA)
SEMI- MATURE 25-30CM GIRTH
 - T6 - PLAY AREA -
WHITE CHERRY (PAP - PRUNUS
AVIUM 'PLENA')
SEMI- MATURE 25-30CM GIRTH
 - T7 - ORNAMENTAL TREES -
ROWAN (SO- SORBUS AUCUPARIA)
SEMI- MATURE 25-30CM GIRTH
 - T8 - GREEN LINK - NATIVE -
SILVER BIRCH (BP- BETULA PENDULA)
SEMI- MATURE 25-30CM GIRTH
 - T9 - PROPOSED NATIVE TREE
COMMON OAK (QR- QUERCUS ROBUR)
 - T10 - GARDEN TREES -
ORNAMENTAL - PINK -
EASTERN REDBUD
(CC- CERIS CANADENSIS)
SEMI- MATURE 18-20CM GIRTH
 - T11 - GARDEN TREES -
ORNAMENTAL - WHITE -
SOUTHERN MANOLIA
(MAGNOLIA GRANDIFLORA)
SEMI- MATURE 25-30CM GIRTH
 - T12 - GARDEN TREES -
SHADBUSH / JUNE BERRY
(AL - AMELANCHIER LAMARKII)
SEMI- MATURE 18-20CM GIRTH

Landscape Tree Strategy - Proposals TREE IMAGES



T1 - LONDON PLANE
(PA - PLATANUS ACERIFOLIA)



T2 - HORNBEAM
(CA - CARPINUS BETULUS)



T3 - SWEETGUM
(LS - LIQUIDAMBAR STYRACIFLUA)



T4 - FIELD MAPLE
(AC- ACER CAMPESTRE)



T5 - ORNAMENTAL CHERRY
(PS - PRUNUS SERRULATA)



T6 - WHITE CHERRY
(PAP - PRUNUS AVIUM 'PLENA')



T7 - ROWAN
(SO- SORBUS AUCUPARIA)



T8 - SILVER BIRCH
(BP- BETULA PENDULA)



T9 - COMMON OAK
(QR- QUERCUS ROBUR)



T10 - EASTERN REDBUD
(CC- CERCIS CANADENSIS)



T11 - SOUTHERN MANOLIA
(MAGNOLIA GRANDIFLORA)



T12 - SHADBUSH
(AL- AMELANCHIER LAMARKII)

Landscape Hedge & Shrub Mix Strategy - Proposals - IMAGES

HEDGE PLANTING



Buxus sempivirens



Carpinus betulus



Griselinia littoralis

SHRUB PLANTING



Crocosmia 'Lucifer'



Cistus corbariensis



Euonymus fortunei 'Emerald Gaiety'



Hosta fortunei



Houttuynia cordata 'Chameleon'



Hypericum calycinum



Prunus 'Otto Luyken'



Pittosporum tenuifolium 'Tom Thumb'



Salvia officinalis 'purpurascens'



Alchemilla mollis



Bergenia cordifolia 'Purpurea'



Bergenia 'Silberlicht'

Landscape Shrub Mix Strategy - Proposals - IMAGES

SHRUB PLANTING



Briza media



Ceanothus thyrsiflorus repens



Dianthus 'Haytor white'



Hebe 'White Gem'



Hebe pinguifolia 'Pagei'



Hedera hibernica



Heuchera micrantha 'Palace Purple'



Hebe albicans



Iris foetidissima



Kimmia japonica 'Rubella'



Lavandula angustifolia 'Munstead'



Lavandula stoechas pedunculata



Liriope muscari



Santolina chamaecyparissus 'Lemon Queen'



Santolina pinnata (Neapolitana) Sulphurea'



Stachys byzantina



Sedum spectabile 'Septernberglut'



Vinca minor 'Argenteovariegata'

Landscape Sedum & Biodiverse & Wildflow Mixes Strategy - Proposals

SEDUM MIX

Sedum Vegetation Blanket XF300
Substrate 80mm
Filter fleece
40mm drainage board

Sedum Vegetation

Sedum acre
Sedum album - 'bella d' Inverno
Sedum album - coral carpet
Sedum ewersie
Sedum Kamtschaticum - ellacombianum
Sedum Kamtschaticum - weinstephaner gold
Sedum montanum orientale
Sedum pulchellum
Sedum rupestri (reflexum)
Sedum sexangulare
Sedum spurium - mesemlanthemum = Delosferma
Sedum spurium - mesemlanthemum = hallii
Sedum verticillatam



BIODIVERSE & WILDFLOWER MIX

Seed mix

Extensive varied substrate 100mm - 150mm
Filter fleece
40mm drainage board

Biodiverse roof installation and features to be installed to the best practice guidance as published by Buglife. www.buglife.org.uk

Seed Mix

Achillea millefolium (Yarrow)
Agrimonia eupatoria (Agrimony)
Agrostemma githago (Corncockle)
Anagallis arvensis (Red Pimpernel)
Anthemis arvensis (Field Chamomile)
Anthoxanthum odoratum (Sweet Vernal Grass)
Anthyllis vulneraria (Kidney Vetch)
Briza media (Quaking Grass)
Campanula glomerata (Bellflower)
Carex flacca (Blue Sedge)
Centaurea cyanus (Cornflower)
Centaurea nigra (Common Knapweed)
Clinopodium vulgare (Wild Basil)
Cynosurus cristatus (Crested Dog's-tail)
Dianthus deltoides (Maiden Pink)
Festuca ovina (Sheep's Fescue)
Festuca rubra (Slender Creeping Red Fescue)
Fragaria vesca (Wild Strawberry)
Galium verum (Lady's Bedstraw)
Glebionis segetum (Marigold)
Helianthemum nummularium (Rock-Rose)
Hieracium pilosella (Mouse-ear Hawkweed)
Hypericum perforatum (Perforate St John's - wort)
Hypochaeris radicata (Cat's Ear)
Knautia arvensis (Field Scabious)
Koeleria macrantha (Crested Hair-grass)
Leontodon hispidus (Rough Hawkbit)
Linaria vulgaris (Common Toadflax)
Lotus corniculatus (Common Bird's-foot-trefoil)
Medicago lupulina (Black Medicks)
Myosotis arvensis (Forget-Me-Not)
Origanum vulgare (Wild Marjoram)
Papaver rhoeas (Flanders Poppy)
Plantago media (Hoary Plantain)
Potentilla anserina (Salad Burnet)
Primula veris (Cowslip)
Prunella vulgaris (Self-heal)
Salvia verbenaca (Wild Sage)
Scabiosa columbaria (Small Scabious)
Sedum acre (Wall-Pepper)
Sedum album (White Stonecrop)
Silene uniflora (Sea Campion)
Silene vulgaris (Bladder Campion)
Stellaria graminea (Common Starwort)
Thymus polytrichus (Wild Thyme)
Trifolium pratense (Clovers)
Trisetum flavescens (Yellow Oat-grass)
Viola riviniana (Wood Violet)
Viola tricolor (Wild Pansy)



Ecological & Bio - Diverse Enhancement

‘A place to provide habitats for birds, bats, and the other insects to live, enhancing the natural biodiversity within the site’

OBJECTIVES:

- To help provide a green foot print to the site consequently mitigating existing habitats lost
- Provide green roofs for visual interest to residents and new habitats which are species rich thus maximising biodiversity
- Incorporate mitigation and enhancement recommendations from Phase 1 & 2 ecology reports
- Provide ecological enhancements such as log piles, bat and bird boxes utilising proposed roof as a feeding ground for local fauna
- Specify native species which are in line with the Council's BAP (Bio-diverse Action Plan)
- Utilise Biodiverse roof space as part of an over all SUD's strategy
- Biodiverse roof system to maximise ecological enhancement
- Specify green roofs to maximise the number of native species assisting with achieving the highest ecological value
- The bird bath & drinker, water feature is incorporated into amenity gardens. It provides fresh water for invertebrates, bats and birds.



BIODIVERSE ROOF WITH SEDUM AND WILDFLOWER



BIODIVERSE ROOF



VERBASCUM NIGRUM (DARK MULLEIN)



DIANTHUS DETOIDES (MAIDEN PINK)

BIRD BATH & DRINKER IN SHARED AMENITY



Sedum mat supplied by Lindum and installed as per suppliers recommendation. Product to be Sedum Plus mat or equal approved .

LOG PILES & DEAD WOOD NORTH BOUNDARY



INSECT WALL THE GREEN LINK



EXPOSED ROCK FORMS



Habitat creation for saproxylic invertebrates and reptiles. To be included on extensive green roof. Log of 1000mm in length and 100mm in diameter per 20m2 of green roof. Insect wall & exposed rock forms to provide a variety of habitats.

BIRD BOXES POSITIONED BY ECOLOGIST

For protected species (protected status - BAP Priority London)



Schwegler & Swift Brick Box.



Schwegler House & Tree Sparrows.

BAT BOXES

Located at a height of between 3 to 6m. Proven successful for Common Long-eared bat (Plecotus auritus). Timber and concrete construction. W & D:160mm x H: 330mm. 3.8kg.



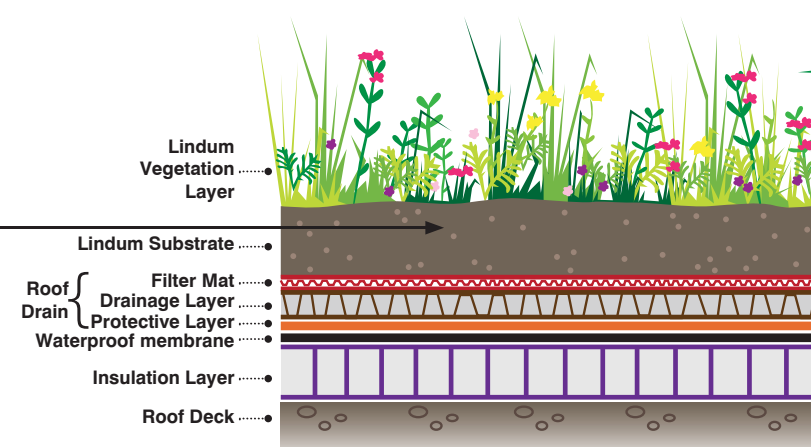
TYPE 1FR Schwegler Tube Box OR 1MF Slope Box.

BUMBLEBEE BOX

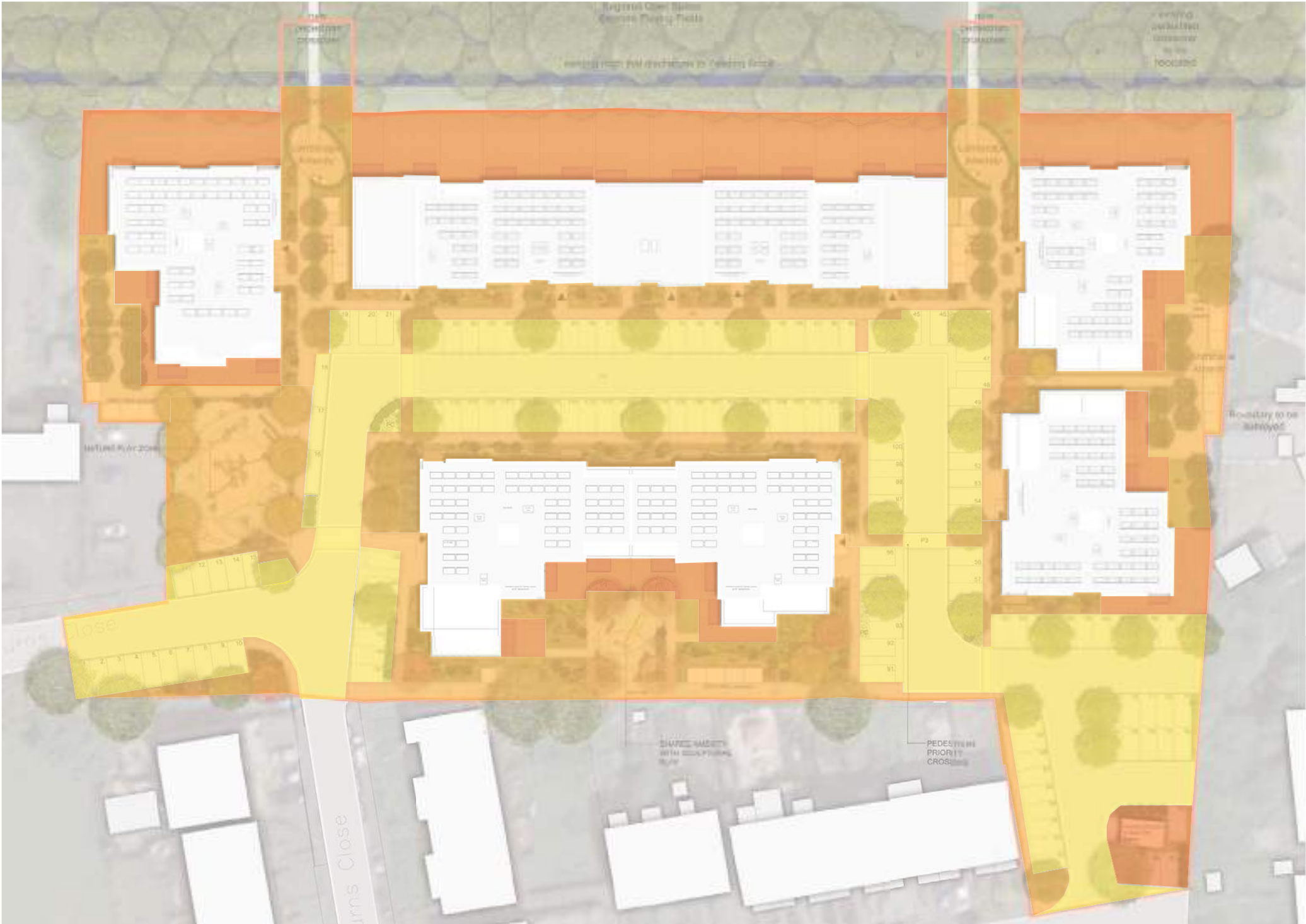


GREEN FOOTPRINT TO MAXIMISE ALL SPACE WITHIN THE SITE FOOTPRINT.

PROFILE OF A LINDUM GREEN ROOF



Lighting Strategy



Level	Area	Lux	Description
1	Street & Car parking area	15-20	Medium Lux levels in these areas are to allow ease of seeing peoples faces and provide adequate light for easy wayfinding. Lighting to be columns, bollards & tree up-lighting
2	Communal gardens & Path & Entrance planting area of buildings & Play areas & Links to the existing woodland in the North boundary	10-15	Medium - Low Lux levels for the building entrance & low level lights in landscape amenity spaces. Strategically placed bulkhead lighting & low levels lights
3	Private gardens& Roof terraces communal space	5-10	Low Lux levels for private amenity spaces. Light spill to be kept to a minimum. Bulkhead lighting to gardens from patio's

INTENSITY LEVEL 1
ILLUMINUS (LUX) 15 - 20

INTENSITY LEVEL 2
ILLUMINUS (LUX) 10 - 15

INTENSITY LEVEL 3
ILLUMINUS (LUX) 5 - 10

