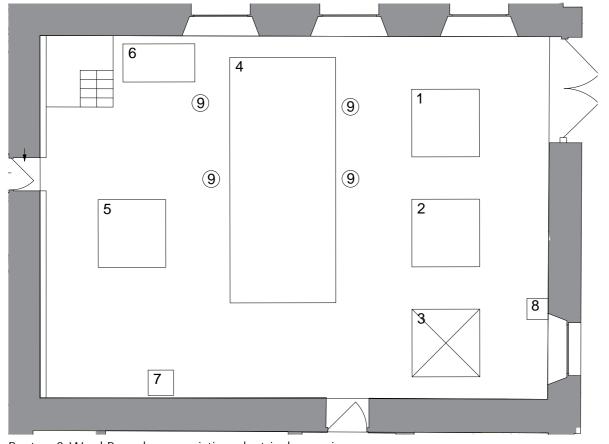
Heritage changes **Existing pumphouse machinery**



Ruston & Ward Pumphouse existing electrical pumping equipment. Approximate locations shown.

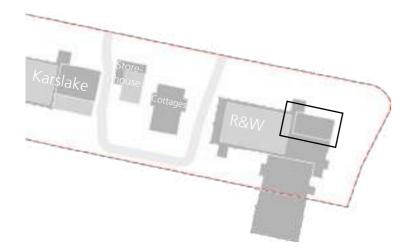
Item 3

Item 1



Replacment W H Allen DC motor Date: Undated Size: 1.6m x 1.6m Report comment: Low to medium significance

Item 4





Harland DC Motor Date: 1932 Size: 1.6m x 1.6m x 3 (Recessed) Report comment: Low to medium significance



Harland twin impellar electric centifugal pump set Date: 1932 Size: 5.8m x 2.5m Report comment: Low to medium significance

Item 2

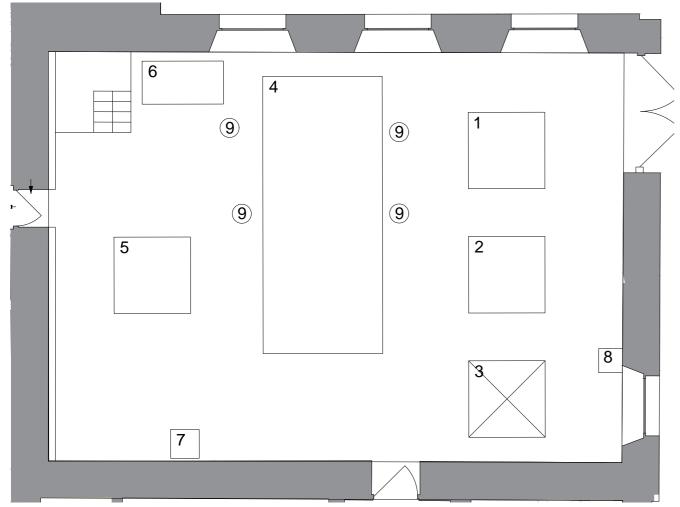


Harland DC motor Date: 1932 Size: 1.6m x 1.6m Report comment: Low to medium significance

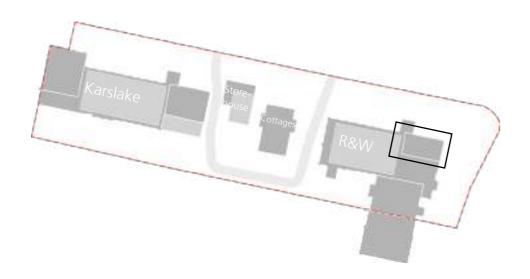
Item 5

Harland DC Motor Date: 1932 Size: 1.6m x 1.6m Report comment: Low to medium significance

Heritage changes **Existing pumphouse machinery**



Ruston & Ward Level 0 Pumphouse existing electrical pumping equipment. Approximate locations shown.



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Item 6



Harland control cabinet for electric centrifugal pump Date: 1932 Size: 0.9m x 1.7m Doubel leaf. Report comment: Low to medium significance

Item 8



Harland control cabinet for electric centrifugal pump Date: 1932 Size: 0.5m x 0.5m Single Leaf Report comment: Low to medium significance

Item 7



Harland control cabinet for electric centrifugal pump Date: 1932 Size: 0.6m x 0.6m Single Leaf

Report comment: Low to medium significance

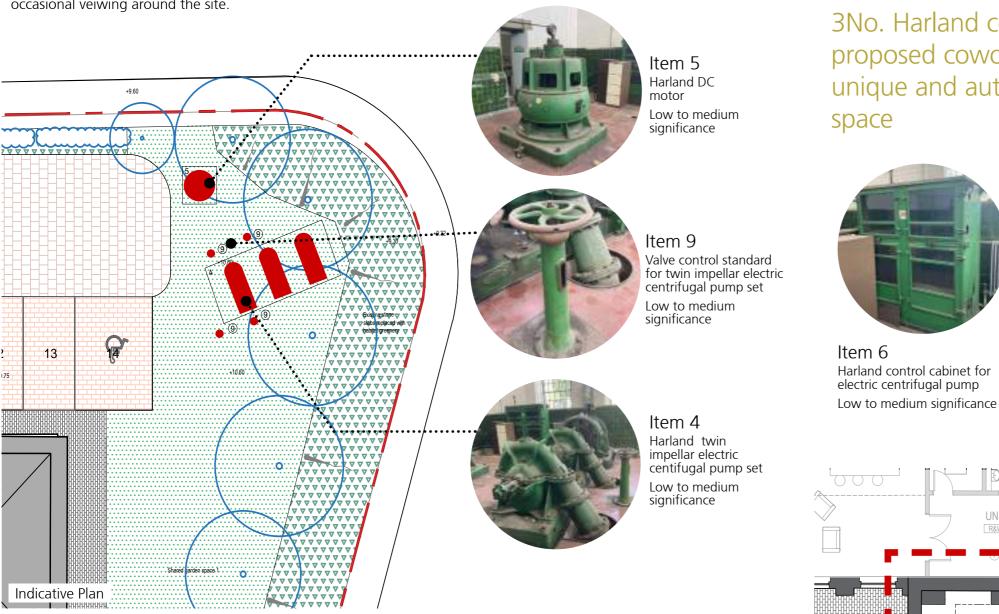


Item 9

Valve Control standard for centrifugal pump Date: 1932 Size: 0.4 d Report comment: Low to medium significance

Heritage changes **Machinery relocation**

Site plan denoting potential positions for machinery relocation for occasional veiwing around the site.

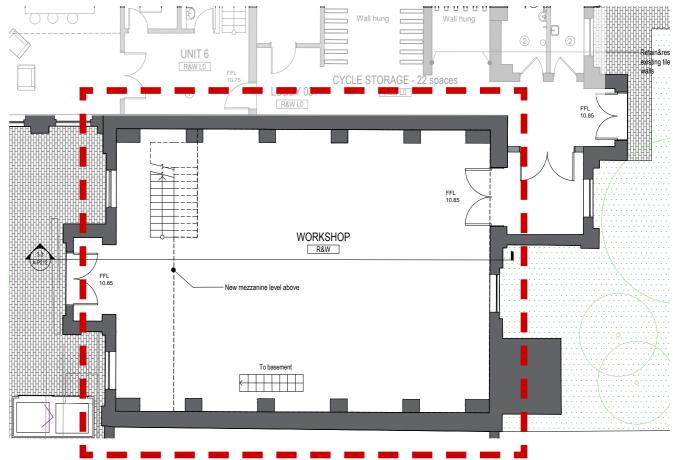


3No. Harland control cabinets to be relocated to the proposed coworking business space to help create a unique and authentic character to reimagined workshop space

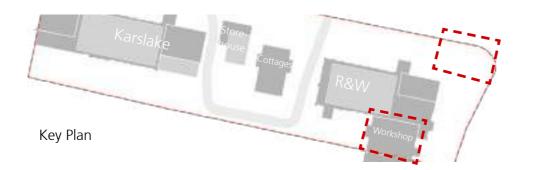




Item 7 pump



Centrifugal Pump, DC Motor and Valve Control used to create a unique landscape feature in the most prominent location on the corner of the site Upper and Lower Sunbury Road





Low to medium significance



Item 8 Harland control cabinet for electric centrifugal pump Low to medium significance

07 Landscape

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Landscape **Design concept**

Inspiration is drawn from the Ruhr Industrial Park where nature has reclaimed the post industrial landscape. Our approach is to create a hard landscaped 'margin' to the buildings formed from existing cobbles. Limited grass zones are carefully integrated within the paving and cobble joints to soften where beneficial. Planting is provided in industrial metal and Corten planters and demarcation is created through level change and low brick retaining walls. Beyond the immediate building 'necklace' trees and other native planting create wilder landscaped areas that form a softer outer perimeter to the site.



Reclaimed by nature



Landscape **Amenity spaces**

Wild native planting including trees combined with necessary number of parking provision to the perimeter of the site.

The majority of the residential units have their own private outdoor amenity space as a hard landscaped terrace while occupants can also benefit from a shared roof terrace and a common garden space.

A children's play area will be integrated into the landscape design to the south. Shared surface, permeable paving throughout the site will prioritise pedestrians and slow vehicle movement.

Soft landscape 'perimeter' to site

Hard landscape 'margin' to buildings



Children's play area Located within the communal gardens to the south of Karslake.

Front gardens Private front gardens provide outdoor amenity space for the majority

of ground level units in

Karslake.

Roof Terraces

New flats on both Karslake and Ruston & Ward buildings include a usable terrace within the set back from existing parapet edge.

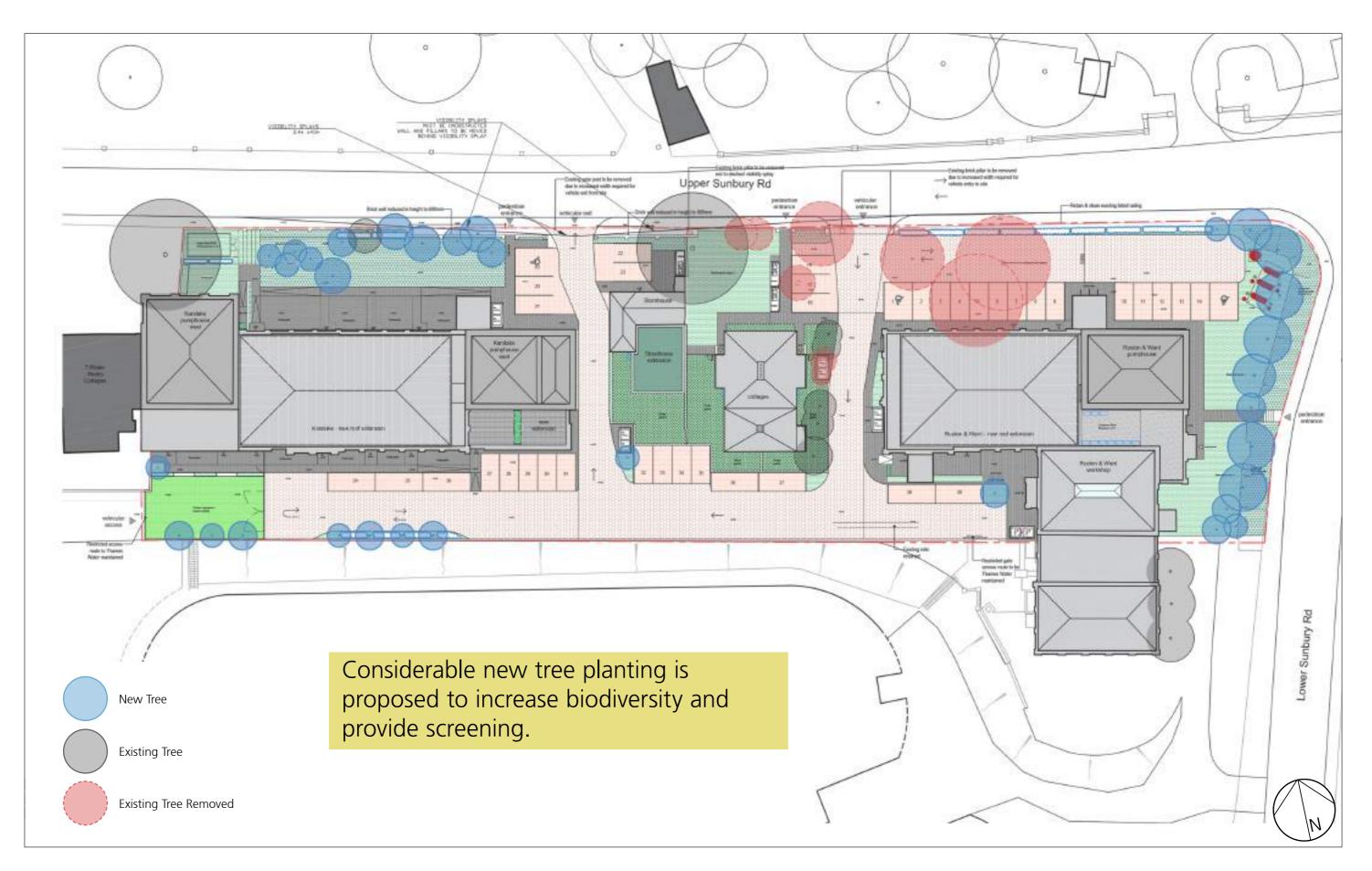
Rear gardens Private back gardens for the Cottages and Storehouse.

Hard landscape 'margin' to buildings

Shared surface paving Subtle paving changes uses size, colour and texture of pavers to denote parking spaces and vehicle movement lines while providing pedestrian priority across the site.

Communal gardens Grassy berm lawn, wild flowers, and trees soften the site edge along Upper & Lower Sunbury Roads.

Landscape **Trees**



Landscape **Trees and planting**

Wildflower Seed Mix - Locally sourced, if possible or e.g. N4F SUMMER FLOWERING BUTTERFLY & BEE MIX by NATURESCAPE See species list here:

https://www.naturescape.co.uk/product/n4f-summer-floweringbutterfly-bee-mix-flowers-only/

11no. Proposed Trees:

5no. Field Maple - Acer campestre Root-Balled, Multi-Stem 3.5-4m height 2no. Hornbeam - Carpinus betulus Root-Balled, Feathered 14-16cm girth 2no. Aspen - Populus tremula Root-Balled, Feathered 14-16cm 2no. Silver Birch - Betula pendula Root-Balled, Multi-Stem 3.5-4m height

> Existing Sycamore Tree; Existing Hedges retained / trimmed as needed

Shrub Planting - Pollinator-Friendly Mahonia eurybracteata subsp. ganpinensis 'Soft Caress' Sarcococca hookeriana var. humilis Viburnum davidii

12no. Proposed Trees:

12no. Proposed Trees: 5no. Crab Apple - Malus sylvestris Root-Balled, Clear Stem 12-14cm girth 7no. Rowan - Sorbus aucuparia Root-Balled, Clear Stem 14-16cm

Shrub Planting - Pollinator-Friendly Mahonia eurybracteata subsp. ganpinensis 'Soft Caress' Cornus sanguinea (Native) Rosmarinus officinalis

See species list here: butterfly-bee-mix-flowers-only/

3no. Field Maple - Acer campestre Root-Balled, Multi-Stem 3.5-4m height 5no. Hornbeam - Carpinus betulus Root-Balled, Feathered 14-16cm girth 2no. Aspen - Populus tremula Root-Balled, Feathered 14-16cm

2no. Silver Birch - Betula pendula Root-Balled, Multi-Stem 3.5-4m height



N4F SUMMER FLOWERING BUTTERFLY & BEE MIX by NATURESCAPE

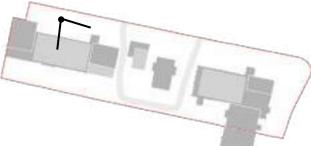
https://www.naturescape.co.uk/product/n4f-summer-flowering-

Landscape Karslake front view

The building settings are enhanced with high-quality landscaping and active entry points all around the buildings.

Ground level gallery units at Karslake are provided individual front gardens and entry doors that open onto the shared garden landscape.

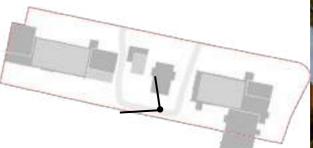
The new roof extension sits lightly over the ground level units, providing a usable terrace along the full edge in a setback from the existing parapet edge.





Landscape Karslake back view

The hard landscaping along the southern edge of the site is provided as shared surface with pedestrian priority. The 1-way vehicle system is indicated by change in paving type and colour.



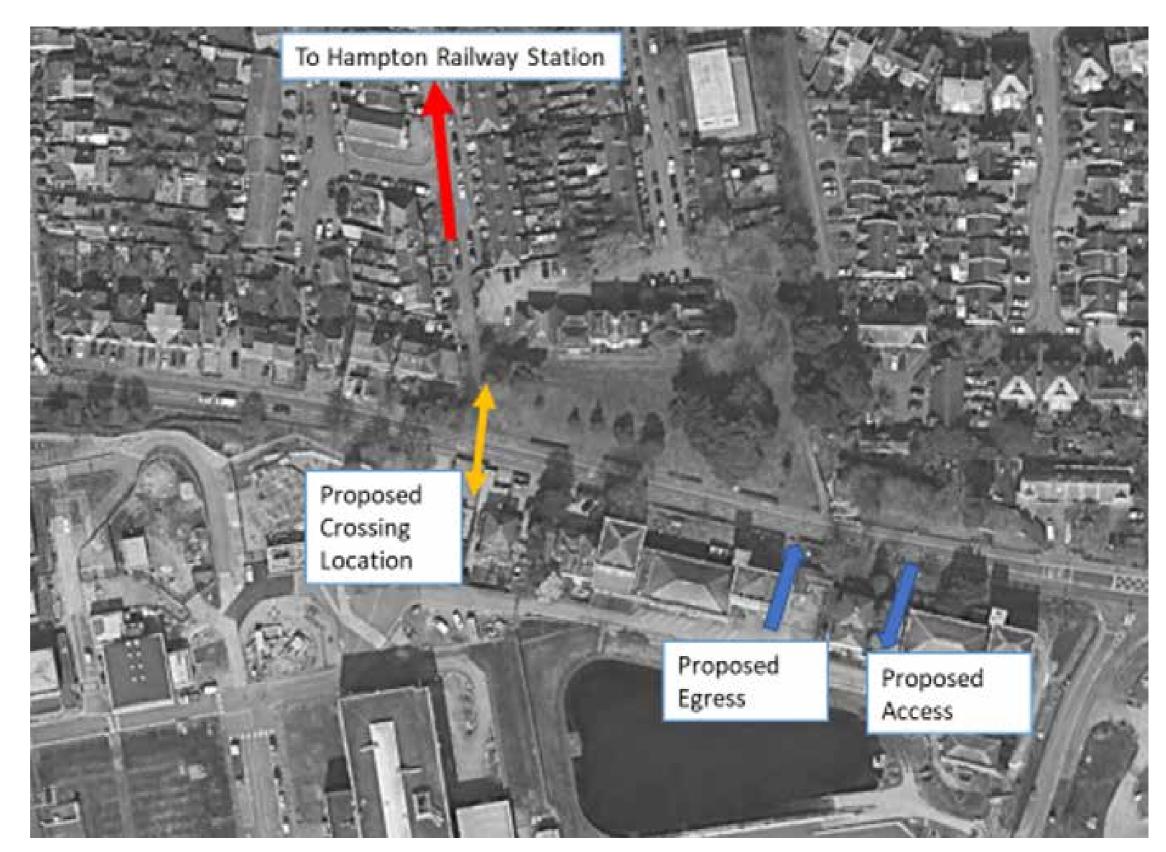




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Access Pedestrian crossing

- Markides Associates have consulted with TfL and London Borough of Richmond upon Thames to discuss the provision of a pedestrian crossing facility on Upper Sunbury Road.
- Following the consultation to date, it is proposed that a pedestrian crossing facility will be provided in the location shown
- The proposed location aims to better connect the nearby community with the railway station, via Beard's Hill. On this basis, the surrounding community will also benefit from this new pedestrian crossing facility.
- The proposed pedestrian facility is anticipated to enhance the pedestrian accessibility of the site.



Access Vehicle movement

The proposal has been carefully tested to demonstrate that it can accommodate vehicle movement without any significant adverse impacts on the existing road network. Sustainable transport methods such as cycle parking, electric vehicle charging points, and public transport options will be promoted.

Parking

- 39 parking spaces provided on site -
- Split with 36 spaces assigned to residential units and 3 spaces assigned to offices; to be marked to indicate allocation
- 69 cycle parking spaces will be provided -+ 16 spaces for visitors

Vehicular Access

Vehicular access will be via a currently unused simple priority junction on Upper Sunbury Road. The junction is located approximately 50m from the proposed access.

Vehicular Egress

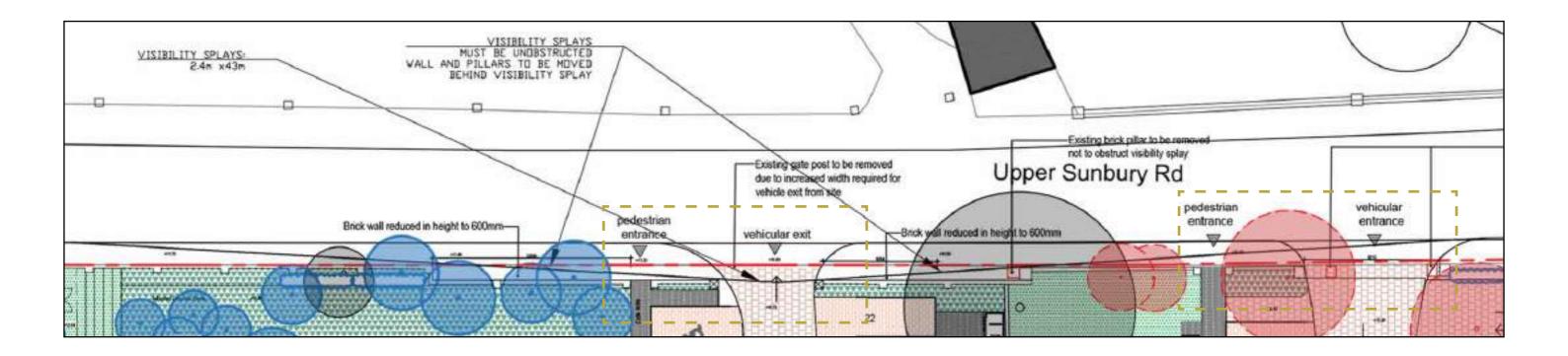
A new vehicular egress is introduced with appropriate visibility splays. The junction is located approximately 80m from the proposed egress.

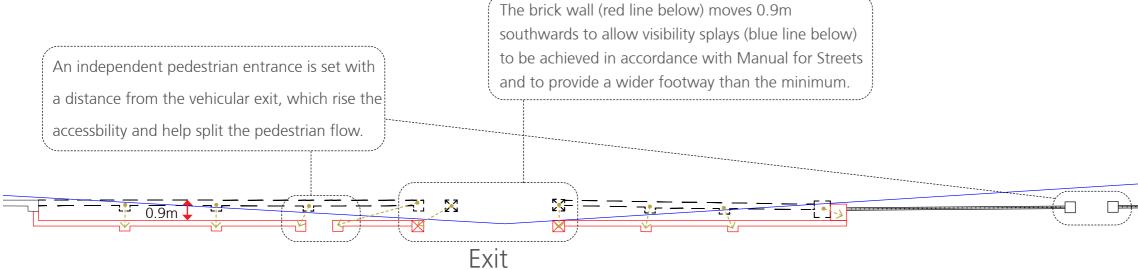


width for vehicles to enter

existing gateposts removed to provide acceptable vehicle visibility splay upon exiting onto Upper Sunbury Rd

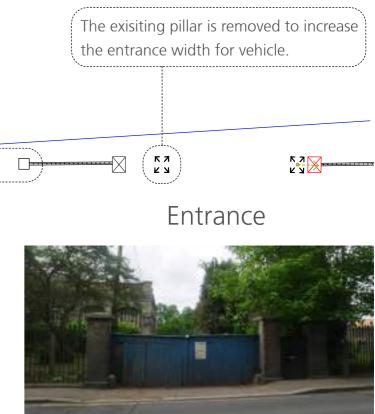
Access Boundary wall and vision splay



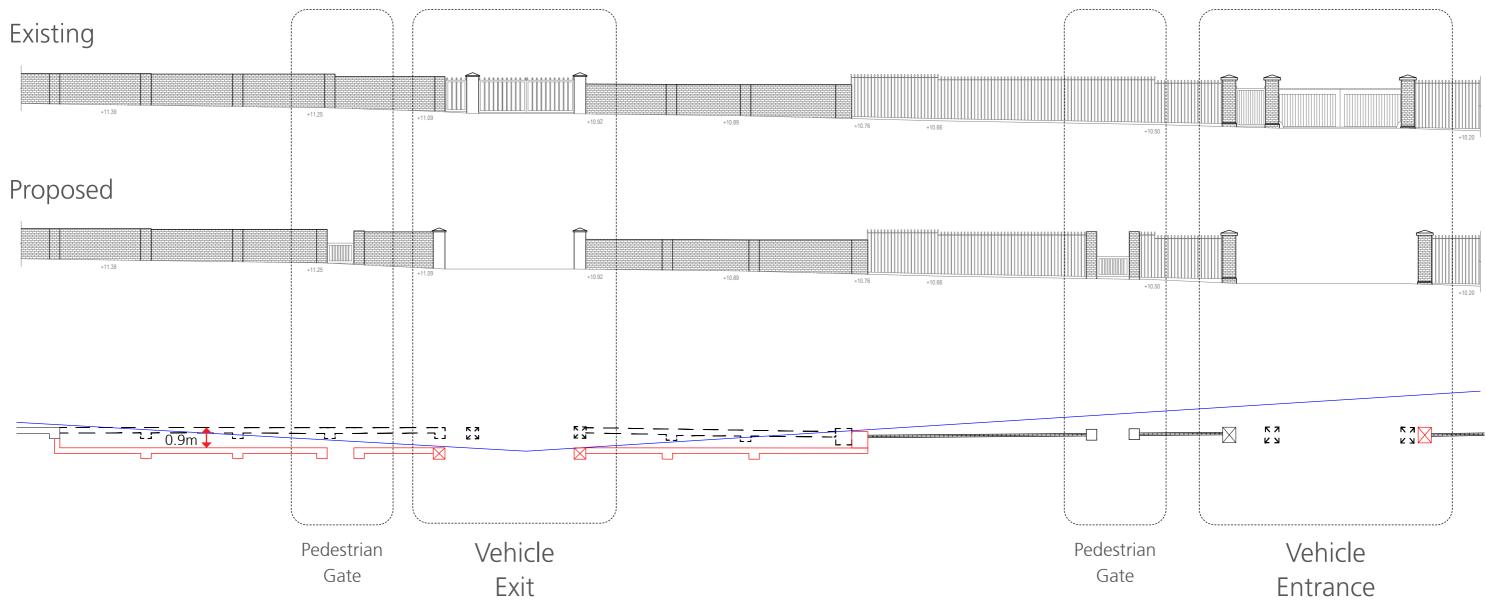








Access Boundary wall modification



Access Accessibility strategy - ground floor

The site design puts pedestrians first, with new paths and shared surface paving to provide accessibility to all.

The dwellings make reasonable provision, within the constraints of the existing listed buildings, for most people to access the dwellings and incorporate features for a wide range of occupants and adaptable for future needs.

Ground level units

25 units are accessed directly from ground level; it is assumed that a stepped access will be required due to existing slab buildup for insulation, but a level access will be provided where possible; subject to further design development.

Lifts

3 new lifts are inserted into each Pump house to provide accessible access to all of the upper units.

Site landscape

The majority of the landscape will be designed without curbs for a shared surface layout. Where steps in paving are required, drop curb will be provided.

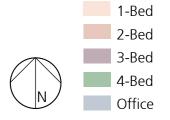
Flat layouts

The internal layouts for the residential units meet Building Regulations Part M - access to and use of buildings

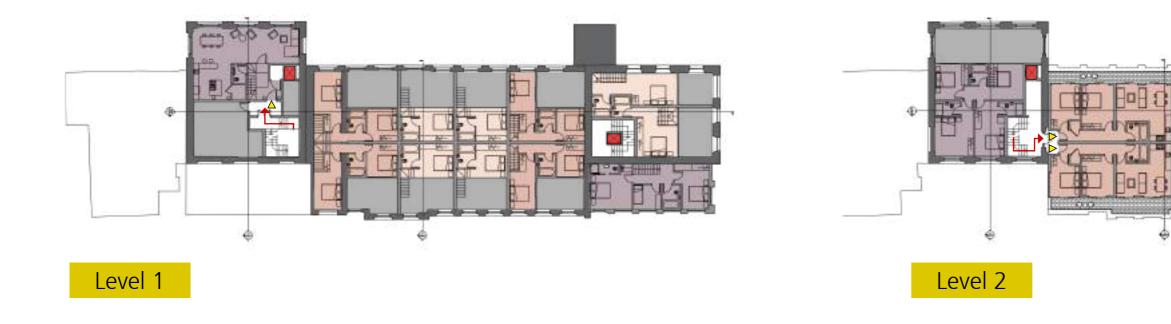


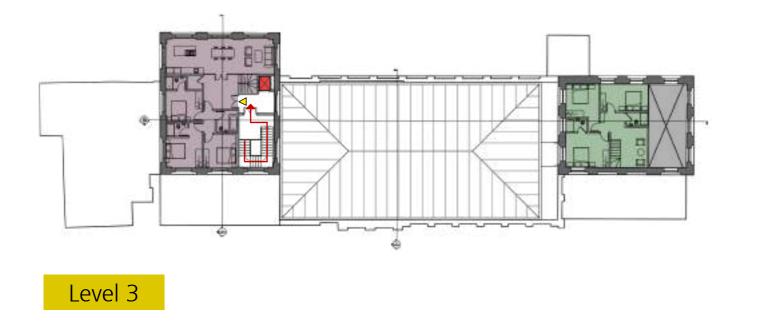
\leftarrow	Site entry - pedestrian access
	Site pathways
‹ •	Buildings - lobby entry
	Common lift
	Residential unit enty

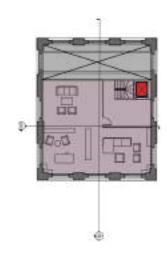
Residential unit enty without lift access



Access Accessibility strategy - Karslake

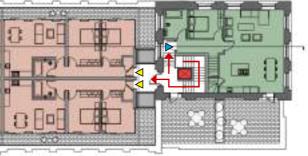






Level 4

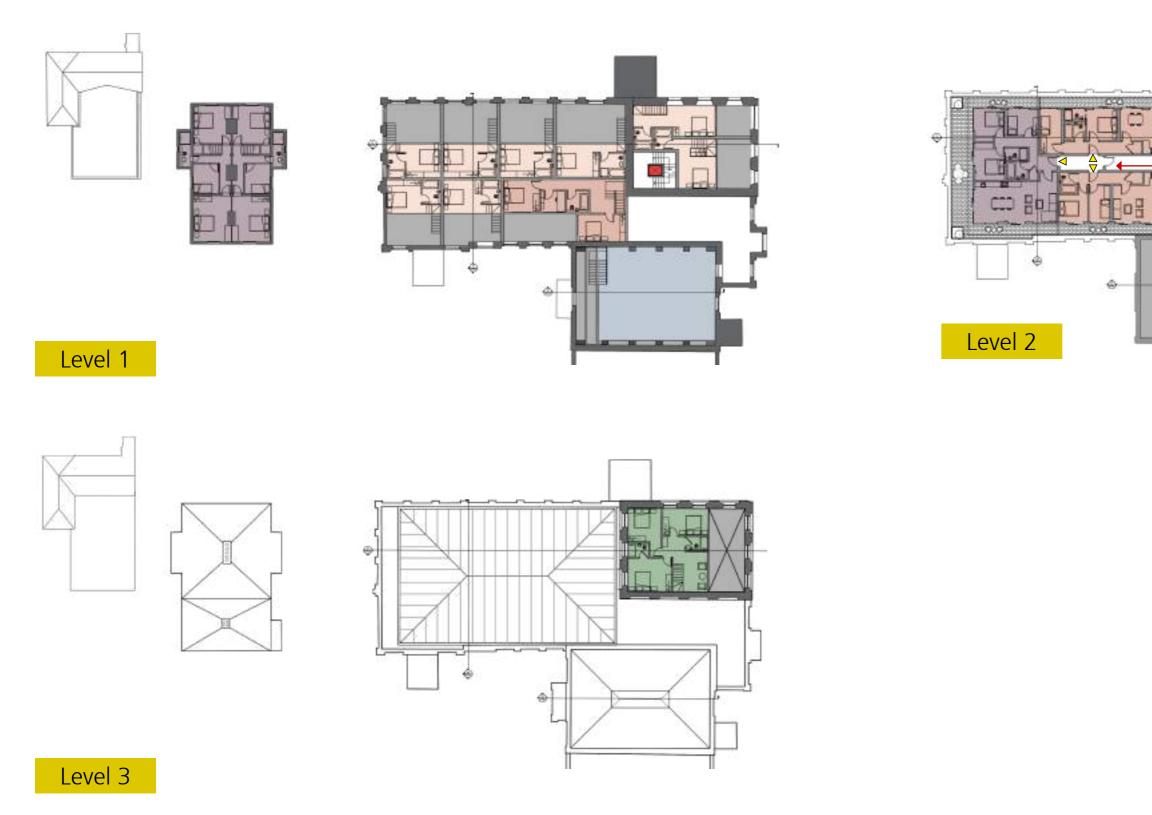






Common stair path to unit Common lift Residential unit enty Residential unit enty without lift access

Access Accessibility strategy - Ruston & Ward, Storehouse, Cottages





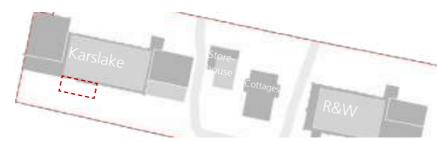


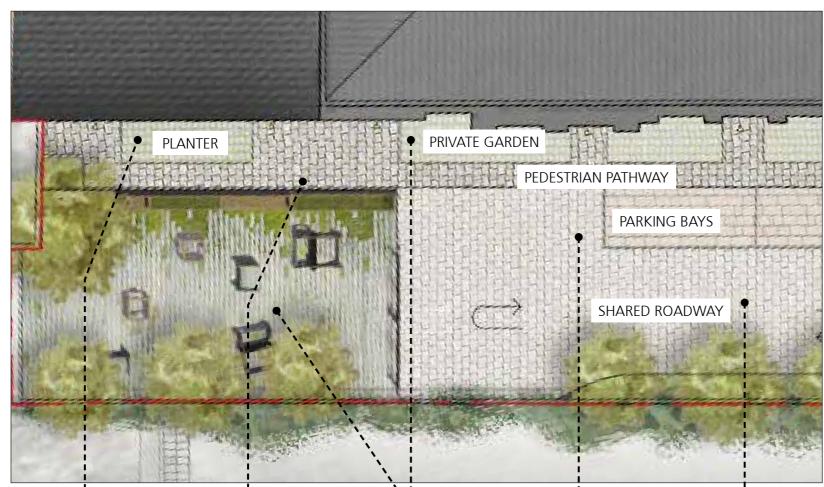


Common stair path to unit Common lift Residential unit enty Residential unit enty without lift access

Access Amenity spaces

Enlarged plan of a typical Karslake front garden amenity with materials selected to to align to the buildings industrial character & feel.











Planters & Furniture

Garden furniture & planters. Industrial style and appearance to supplement proposal.

Pedestrian Path Residential unit

entrance pathway to use permeable paving to compliment re-laid cobbles within private garden area.

Private Yard & Play area

Existing cobbles located on site to be relocated and featured within the private garden amenties.

Parking Bays

Parking bays to appear visually contrasting to the other paved areas.

Shared Roadway Permeable block paving colour or size to be used to denote vehicle movement lines while providing pedestrian priority accross the site.

Access Play Space Relocation

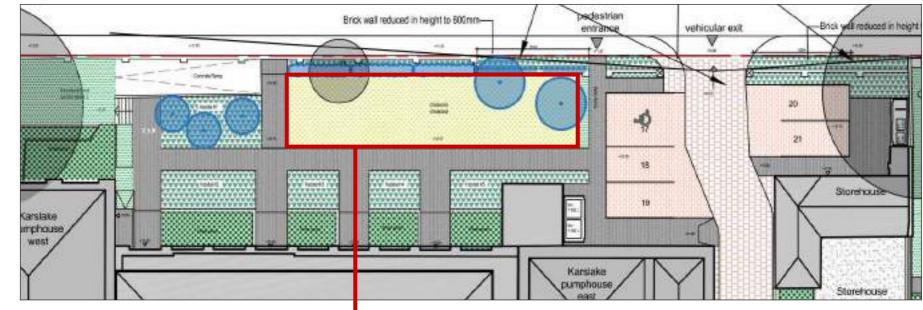
Previous play space located north of the Karslake building.

Play space relocated to align with DRP preference for location away from road and to southern aspect of site.

This will involve management of access over the play area which will be designed to allow for occasional vehicle movements.

Relocated to the south of Karslake building although allowing occasional vehicular passage via access gates.

Previous Version





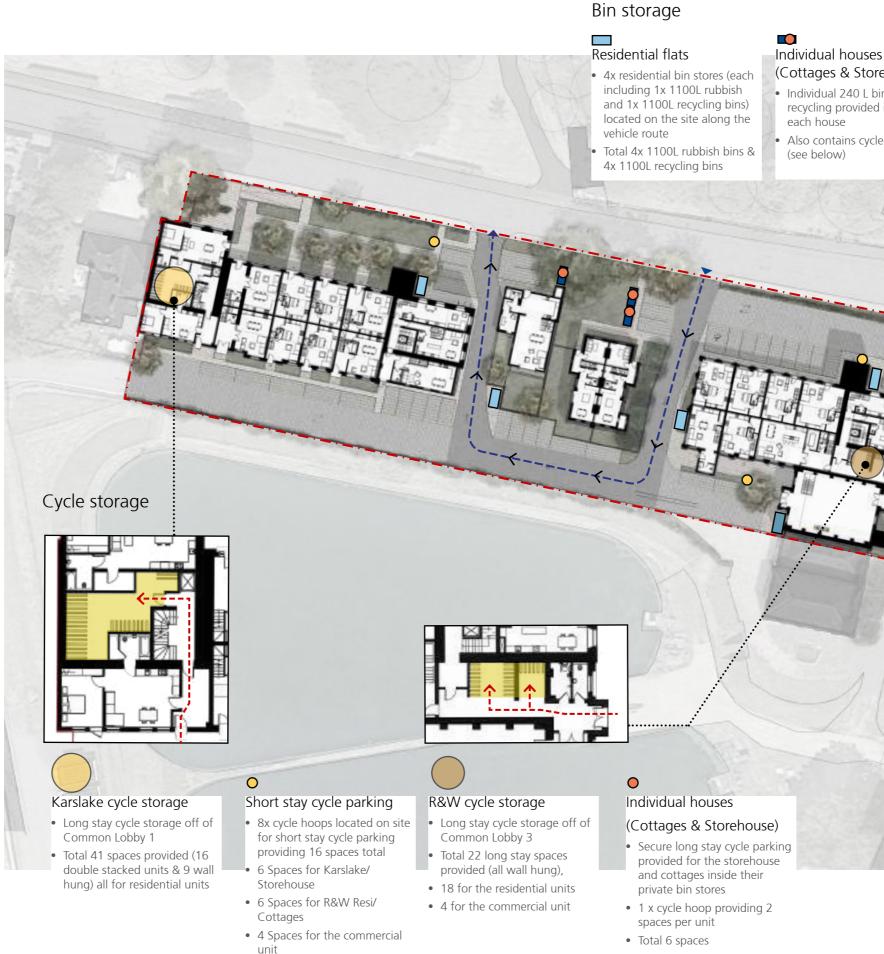
be required to have a paved access route potentially ina similar style to the above.

Access Cycle & bin storage (previous version)

Cycle and bin storage are provided throughout the site to meet policy requirements, located for ease of use and servicing. Please refer to the separate transport prepared by Markides Associates for full details of cycle storage.

Cycle storage rooms are provided accessed through the common lobbies within each building -Karslake and Ruston & Ward. The individual houses are provided private cycle storage adjacent to the bin storage at their front gardens. Short stay cycle hoops are also provided near the car parking bays.

High quality bin stores including rubbish and recycling are provided along the vehicle route. Private stores for the individual houses, common stores separated for residential units and commercial space.





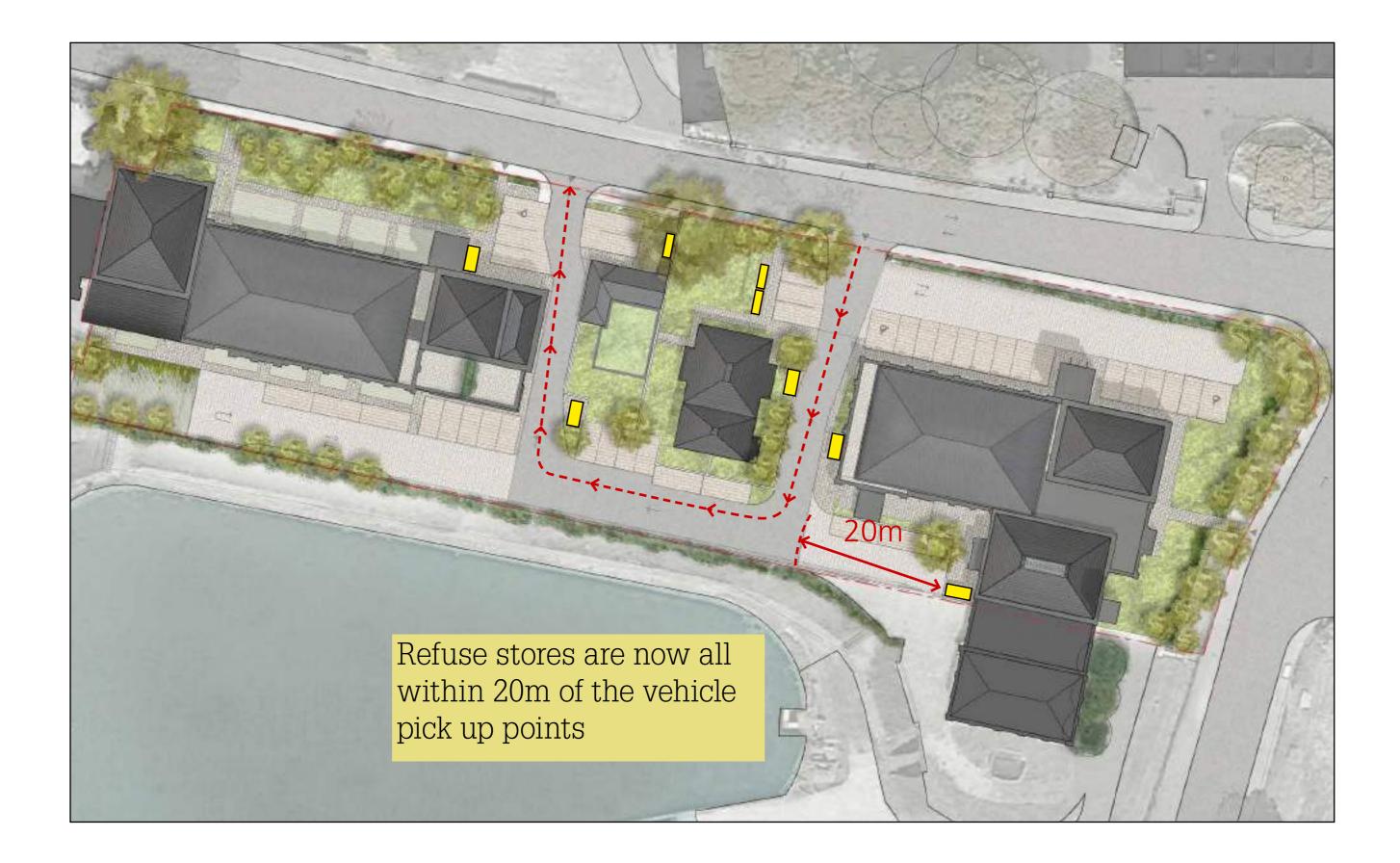
(Cottages & Storehouse)

 Individual 240 L bins rubbish & recycling provided in front of

Also contains cycle storage

• 1x commercial bin store including 1x 1100L rubbish and 1x 1100L recycling bins Adjacent to workshop rear entry

Access Cycle & bin storage update



09 Summary of benefits

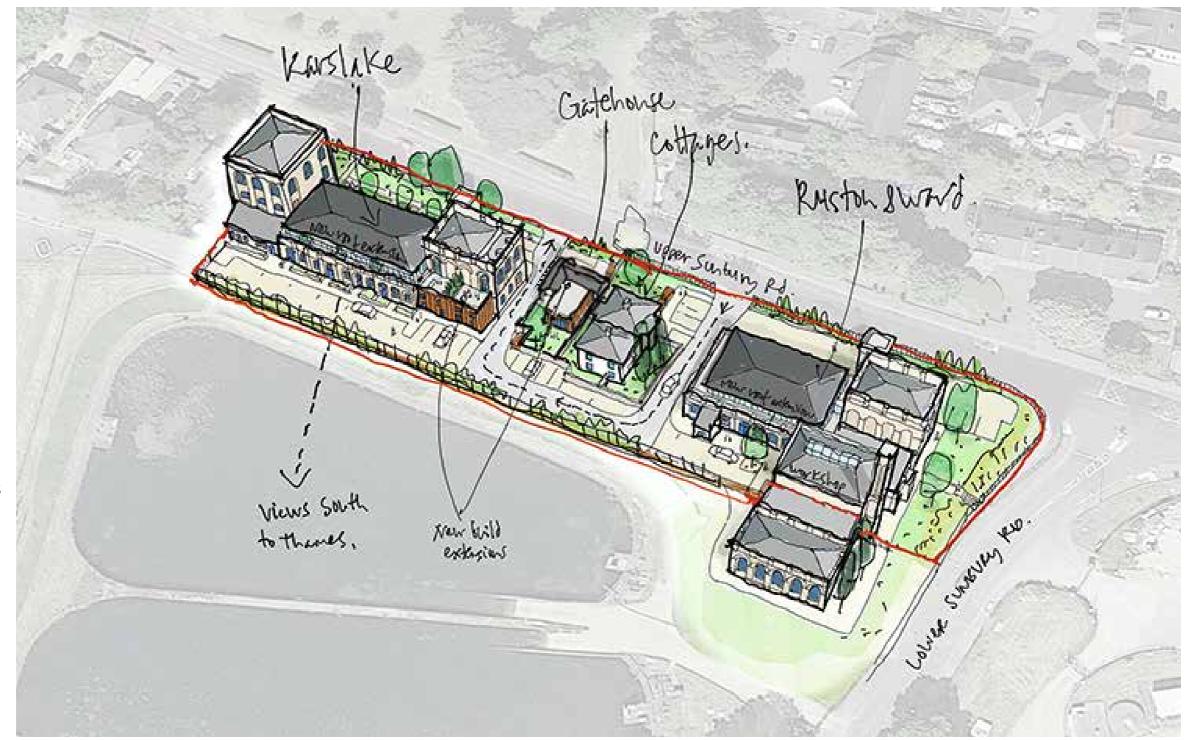
112

Summary **Benefits**

This document aims to illustrate how thoughtful design interventions can unlock the benefits of this proposal such that we can bring restoration and new life these unique historic buildings.

The Hampton Waterworks site is a complex and difficult project that has demanded a careful balance of heritage, viability, use and architectural considerations.

- End to the deterioration of the historic buildings
- Restoration of listed heritage Waterworks buildings
- 36 new high quality residential dwellings for Richmond
- Employment space for job creation
- Upgraded site landscaping
- Appropriate landmark entry to Hampton
- Considered contemporary architecture juxtaposed with the industrial Victorian buildings
- Key heritage details retained, restored and highlighted within the proposal



Appendix

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Proposal Accommodation

The proposal is residential led with 36 units of a mix of 1, 2 and 3+ bedroom, with additional employment space provided in the Ruston & Ward workshop. 39 car parking spaces are provided.

Num	per of units					
16x	1-Bed					
11x	2-Bed					
7x	3-Bed					
2x	4-bed					
36	Total units					
Parking						
39 spa	ces provided					

		Description							N	SA (sqm)	G	6IA (sqm)	Accessibilit
Space	New build / existing	Notes	Level							Residential			Residential		Part M Type
				1b 2p 2b	3p 2b	4p 3b 5	o 3b 6p	4b 8p	Main	Upper	Sub-total	Main	Upper	Sub-total	
Karslake															
Unit 1	Existing	Pump house West	Level 0	1					56.3	0.0	56.2	61.9	0.0		Type 3
Unit 2	Existing	Central block	Level 0 + 1			1			61.9	39.8	101.7	70.4	44.3		Type 2
Unit 3	Existing	Central block	Level 0 + 1			1			58.9	38.8	97.7	63.4	42.9		Type 2
Unit 4	Existing	Central block	Level 0 + 1	1					39.3	20.6	59.9	42.4	23.6		
Unit 5	Existing	Central block	Level 0 + 1	1					37.9	20.6	58.5	40.8	23.5		Type 2
Unit 6 Unit 7	Existing	Central block Central block	Level 0 + 1 Level 0 + 1	1					36.7 34.7	20.6 20.6	57.3 55.3	39.6 37.5	22.5 22.4		Type 2 Type 2
Unit 8	Existing Existing	Central block	Level 0 + 1 Level 0 + 1	1	1				54.7 54.6	20.0	80.0	57.5 59.6	31.6		Type 2 Type 2
Unit 9	Existing	Central block	Level 0 + 1		1				54.0	25.4	76.9	55.4	30.9		Type 2 Type 2
Unit 10	Existing	Pump house East	Level 0 + 1	1	1				40.3	23.4	69.1	42.9	32.3		Type 1
Unit 11	Existing	Pump house East	Level 0 + 1	1					40.3	26.1	66.4	45.3	31.1		Type 1 Type 1
Unit 12	New	Extension SE	Level 0 + 1	-			1		46.9	55.7	102.6	51.1	62.3		Type 1
Unit 13	Existing	Pump house West	Level 0	1			-		71.1	0.0	71.1	72.4	0.0		Type 2
Unit 14	Existing	Pump house West	Level 1 + 2	-				1	72.8	78.5	151.3	76.1	80.1	156.2	Type 2
Unit 15	New	Roof	Level 2			1		-	69.9	0.0	69.9	72.7	0.0		Type 2
Unit 16	New	Roof	Level 2			1			64.9	0.0	64.9	77.6	0.0		Type 3
Unit 17	New	Roof	Level 2			1			77.0	0.0	75.9	68.2	0.0		Type 2
Unit 18	New	Roof	Level 2			1			71.1	0.0	71.1	73.8	0.0		Type 2
Unit 19	Existing	Pump house East	Level 2 + 3			-		1	84.4	72.8	157.2	85.8	72.8		Type 1
Unit 20	Existing	Pump house West	Level 3 + Mz					1	126.3	103.9	230.2	129.4	103.4		Type 2
Karslake Sul				8	2	6		21			1773.1			1888.9	. /
					nits tota										
Ruston &	Ward 3														
Unit 1	Existing	Central block	Level 0 + 1	1					41.6	21.6	63.2	43.7	23.5	67.2	Tupo 2
Unit 2	Existing	Central block	Level 0 + 1	1					41.0	21.0	68.6	45.7	23.5		Type 2 Type 2
Unit 3	Existing	Central block	Level 0 + 1	1					41.9	22.0	63.9	45.0	25.1		Type 2
Unit 4	Existing	Central block	Level 0 + 1	1					38.8	22.0	60.9	41.2	24.8		
Unit 5	Existing	Central block	Level 0 + 1	1					41.3	21.7	63.0	44.1	24.8		Type 2
Unit 6	Existing	Central block	Level 0 + 1	-		1			80.2	57.1	137.3	85.3	63.4		Type 2
Unit 7	Existing	Central block	Level 0 + 1	1		-			53.5	27.4	80.9	58.6	32.7		Type 2
Unit 8	Existing	Pump house	Level 0 + 1	1					38.5	27.4	65.9	41.3	31.2		Type 1
Unit 9	Existing	Pump house	Level 0 + 1	1					39.2	24.7	63.9	44.6	30.3		
Unit 10	New	Roof extension	Level 2		1				64.5	0.0	64.5	66.1	0.0		Type 2
Unit 11	New	Roof extension	Level 2		-		1		88.2	0.0	88.2	89.5	0.0		Type 2
Unit 12	New	Roof extension	Level 2		1		-		61.9	0.0	61.9	63.9	0.0		Type 2
Unit 13	Existing	Pump house	Level 2+3					1	82.0	71.1	153.1	83.4	71.1		Type 1
R&W Subto	tal	•		8	2	1	1	0 1			1035.2			1106.2	
				13 U	nits tota	al									
Cottages															
No. 3	Existing	Cottage	Level 0 + 1				1		58.7	57.1	115.8	61.9	59.8	121.7	
No. 4	Existing	Cottage	Level 0 + 1				1		55.7	57.1	112.8	58.9	59.8	118.7	
No. 3	Existing	Cottage (Storage)	Basement -1						15.0		15.0	18		18	Type 1
No. 4	Existing	Cottage (Storage)	Basement -1						15.0		15.0	18		18	Type 1
Cottages Su	btotal						2				258.5			276.4	
				2 U	nits tota	al									
Storehouse															
	Existing +												_		
Storehouse		Store - conversion	Level 0				1		87.5	0.0	87.5	90.5	0		Туре 3
Storehouse	Subtotal			1	nits tota		1				87.5			90.5	
				 1.0 U 	uurs tota	41									

36 Total Proposed Units

Proposal Accommodation

The proposal is residential led with 36 units of a mix of 1, 2 and 3+ bedroom, with additional employment space provided in the Ruston & Ward workshop.

39 car parking spaces are provided.

NSA (m²)												
	Residential											
	1		Dwellings			Common	Subtotal					
Level	Karslake	R&W	Cottages	Storehouse	Subtotal							
4	103.9	-	-	-	103.9	3	107.0					
3	199.1	71.1	-	-	270.2	16.7	286.9					
2	445.8	296.6	-	-	742.4	92.6	835.0					
1	395.2	245.0	114.2	-	754.4	97.5	851.9					
0	630.3	422.5	114.3	87.5	1254.7	182.9	1437.6					
B1	-	-	30.0	-	30.0	196.8	226.8					
Total	1774.3	1035.2	258.5	87.5	3155.6	589.6	3745.2					

GIA (m²)																			
			Residential									Non Res	sidential			Ove	erall		
				Dwellings			Com	mon	То	otal	Commercial	Common	Tot	al					Total
Lev	vel H	Karslake	R&W	Cottages	Storehouse	Subtotal	Karslake	R&W		(of which mezzanines)	R&W	R&W		(of which mezzanines)	Karslake	R&W	Cottages	Storehouse	
	4	103.4	-	-	-	103.4	2.6	-	106.0	77.8	0		0.0		106.0	-	-	-	106.0
	3	202.2	71.1	-	-	273.3	18.1	0.0	291.4	143.9	0	0	0.0		220.3	71.1	-	-	291.4
	2	458.2	302.9	-	-	761.1	55.4	46.6	863.1	110.2	0	0	0.0		513.6	349.5	-	-	863.1
	1	443.5	278.6	119.6	-	841.7	96.1	25.9	963.7	597.6	117.0	0.0	117.0	114.0	539.6	421.5	119.6		1080.7
	0	682.7	453.6	120.8	90.5	1347.6	120.6	85.5	1553.7		162.0	12.5	174.5		803.3	713.6	120.8	90.5	1728.2
	B1	0	0	36	-	36.0	106.2	99.1	241.3		27.3	0.0	27.3		106.2	126.4	36.0	-	268.6
То	tal	1890.0	1106.2	276.4	90.5	3363.1	399.0	257.1	4019.2	929.5	306.3	12.5	318.8	114.0	2289.0	1682.1	276.4	90.5	4338.0

Appendix Inclusive access & wheelchair housing

The development will be delivered to conform with Part M of the Building Regulation Approved Documents.

The buildings have been considered to achieve an appropriate balance of accessibility within the constraints of the existing listed buildings.

Planning Policy

The London Plan Housing SPG states that 90 per cent of new build housing should meet Building Regulation requirement M4(2) 'accessible and adaptable dwellings' and the remaining 10 per cent meeting Building Regulation requirement M4(3) 'wheelchair user dwellings'.

Policy also notes that requirements for accessibility should be balanced against preserving historic buildings or environments.

Site

The site has minimal slope throughout and the landscape paths will be designed with curb cuts where required to allow for ease of movement & wheelchair accessibility.

Common lobbies

Level access without steps or barriers are provided into each of the three common lobbies to provide wheelchair access to the lifts and thus all building levels.

Part M-1+ Visitable dwellings

8 dwelling units provided. Where the constraints of the existing heritage building do not allow for a fully compliant Part M-2 dwelling, the dwelling will be M-1, but including as many Part M-2 requirements as possible. The existing constraints are mainly to do with the need to install insulation above the existing slab for thermal performance, thus a level access is not possible at the ground floor units access directly from the external site.

Part M-2, Accessible and adaptable dwellings

24 dwelling units provided. Where level access into the dwelling is possible within the constraints of the existing heritage buildings, then the dwelling will be fully compliant with building regulation Part M-2.

Part M-3 Wheelchair users

4 dwelling units are provided as fully accessible. Two of these units are at the ground level of Karslake, and is on the roof extension of Karslake, and the last is the Storehouse. These will fully be compliant with building regulation Part M-3.

Employment space

Accessible, level access to the main level of the employment office space has also been considered. There are two entries, with the main entry which forms part of the Ruston & Ward common lobby providing a level access. Within the R&W common lobby, WC facilities are provided, one of which is accessible.

Proposed dwellings, Part M accessibility type

Space	New build / existing	Notes	Level
Karslake			
Unit 1	Existing	Pump house West	Level 0
Unit 2	Existing	Central block	Level 0 + 1
Unit 3	Existing	Central block	Level 0 + 1
Unit 4	Existing	Central block	Level 0 + 1
Unit 5	Existing	Central block	Level 0 + 1
Unit 6	Existing	Central block	Level 0 + 1
Unit 7	Existing	Central block	Level 0 + 1
Unit 8	Existing	Central block	Level 0 + 1
Unit 9	Existing	Central block	Level 0 + 1
Unit 10	Existing	Pump house East	Level 0 + 1
Unit 11	Existing	Pump house East	Level 0 + 1
Unit 12	New	Extension SE	Level 0 + 1
Unit 13	Existing	Pump house West	Level 0
Unit 14	Existing	Pump house West	Level 1 + 2
Unit 15	New	Roof	Level 2
Unit 16	New	Roof	Level 2
Unit 17	New	Roof	Level 2
Unit 18	New	Roof	Level 2
Unit 19	Existing	Pump house East	Level 2 + 3
Unit 20	Existing	Pump house West	Level 3 + Mz

Ruston	& Ward		
Unit 1	Existing	Central block	Level 0 + 1
Unit 2	Existing	Central block	Level 0 + 1
Unit 3	Existing	Central block	Level 0 + 1
Unit 4	Existing	Central block	Level 0 + 1
Unit 5	Existing	Central block	Level 0 + 1
Unit 6	Existing	Central block	Level 0 + 1
Unit 7	Existing	Central block	Level 0 + 1
Unit 8	Existing	Pump house	Level 0 + 1
Unit 9	Existing	Pump house	Level 0 + 1
Unit 10	New	Roof extension	Level 2
Unit 11	New	Roof extension	Level 2
Unit 12	New	Roof extension	Level 2
Unit 13	Existing	Pump house	Level 2+3

Cottages			
No. 3	Existing	Cottage	Level 0 + 1
No. 4	Existing	Cottage	Level 0 + 1
No. 3	Existing	Cottage (Storage)	Basement -1
No. 4	Existing	Cottage (Storage)	Basement -1

Storehouse	9		
	Existing +		
Storehouse	New	Store - conversion	Level 0

Accessibility

Part M Type

Type 3	
Type 2	
Type 1	
Type 1	
Type 2	
Type 3	
Type 2	
Type 2	
Type 3	
Type 2	
Type 2	
Type 1	
Type 2	

Type 2
Type 2
Type 1
Type 1
Type 2
Type 2
Type 2
Type 1

Type 1	
Type 1	
	_

Type 3

Appendix Inclusive access & wheelchair housing

Part M Category 1 Visitable dwellings

Makes reasonable provision for most people, including wheelchair users, to approach and enter the dwelling and to access habitable rooms and sanitary facilities on the entrance storey.

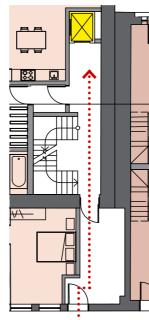
- To be used where the heritage listing does not allow for Category 2 typically where a Category 2 dwelling is not possible to achieve with the heritage listing this has to do with being unable to provide level access into the dwelling
- Doors min. opening width of 775mm; corridor clear passageway min. 900mm width
- Dwelling entrance is level if possible
- 8 dwelling units provided.
- Where the constraints of the existing heritage building do not allow for a fully compliant Part M-2 dwelling, the dwelling will be M-1, but including as many Part M-2 requirements as possible. The existing constraints are mainly to do with the need to install insulation above the existing slab for thermal performance, thus a level access is not possible at the ground floor units access directly from the external site.

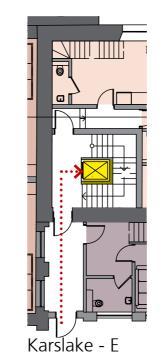
Part M Category 2 Accessible & adaptable dwellings

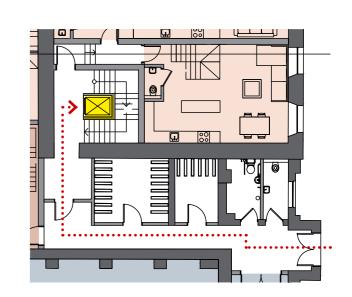
Makes reasonable provision for most people to access the dwelling and incorporates features that make it potentially suitable for a wide range of occupants, including older people, those with reduced mobility and some wheelchair users.

- Step free access to dwelling
- Step-free access to WC and other accommodation within entrance storey and associated outdoor space
- Features are provided to enable common adaptations to be carried out in the future to increase accessibility and functionality
- Wall mounted switches, sockets and other controls are reasonably accessible to people who have reduced reach
- 24 dwelling units provided.
- Where level access into the dwelling is possible within the constraints of the existing heritage buildings, then the dwelling will be fully compliant with building regulation Part M-2.

Communal entrances



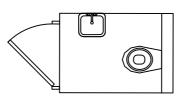


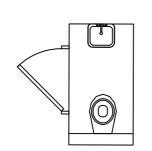


Karslake - W

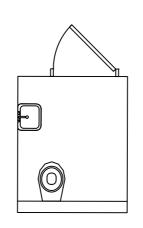


Bathrooms - Category 2 Accessible & Adaptable

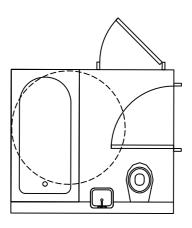




Configuration 1 WC, Ground level 1-2 bedroom unit

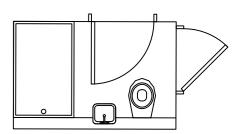


Configuration 2 WC, Ground level 3+ bedroom unit



Configuration 3 Full Bathroom Bedroom level

Ruston & Ward - E



Configuration 4 Ensuite bathroom (no requirements)

Appendix Inclusive access & wheelchair housing

Part M Category 3a Wheelchair adaptable dwellings

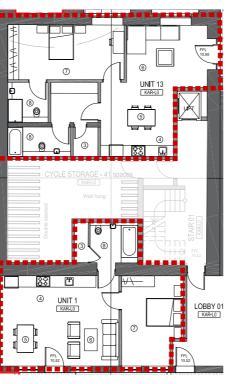
Makes reasonable provision for a wheelchair user to live in the dwelling and use any associated private outdoor space, parking and communal facilities.

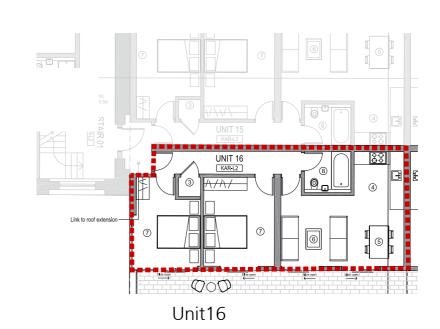
- Total 4 Wheelchair user dwellings provided 10%
- Karslake units 1 & 13 at Ground level, and unit 16 at level 2
- Storehouse
- Step free access to dwelling, private outdoor space, parking space and communal facility
- Step-free access to WC and other accommodation within entrance storey and associated outdoor space
- Sufficient internal space to make the accommodation within the dwelling suitable for a wheelchair user
- Dwelling is wheelchair adaptable, such that key parts could be easily altered to meet needs of a wheelchair user
- Wall mounted switches, sockets and other controls are reasonably accessible to people who have reduced reach

Part M-3 Wheelchair user dwellings

Karslake, Level 0

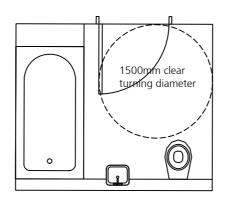
Unit13

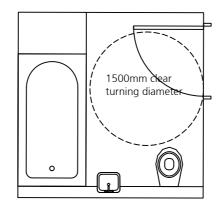




Unit1





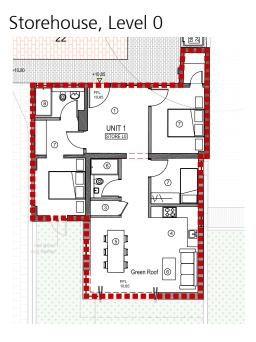


Configuration 2

Karslake, Level 2

Configuration 1

Door can open in or out, but needs to be able to open out



Appendix Housing standards

The proposed residential units have been designed in line with the London housing guide SCP and the UK nationally described space standards to ensure that a high level of quality and adequate space is provided within each dwelling.

The Draft London Plan 2019 Policy D6 Housing quality and standards have been referenced throughout the design process. The majority of the space standards have been fully met, but due to working within the constraints of listed buildings an appropriate balance has been achieved where full compliance of a standard was found unachievable within the heritage fabric.

New London Plan 2017 Policy D4 Housing quality & standards

Minimum space standards,

1. Dwellings must provide at least the gross internal floor area and built-in storage area set out in the table

The dwellings are of a high design standard, with most providing significantly greater internal floor area than required. Due to working within the existing heritage buildings, there is one unit which falls slightly (~1m) under the minimum requirements

Bedroom sizes

 A dwelling with two or more bedspaces must have at least one double (or twin) bedroom that is at least 2.75m wide. Every other additional double (or twin) bedroom must be at least 2.55m wide.

This has been met within the proposal.

3. A one bedspace single bedroom must have a floor area of at least 7.5 sqm and be at least 2.15m wide.

This has been met within the proposal.

4. A two bedspace double (or twin) bedroom must have a floor area of at least 11.5 sqm.

This has been met within the proposal.

Floor to ceiling height

5. The minimum floor to ceiling height must be 2.5m for at least 75 per cent of the Gross Internal Area of each dwelling.

Due to working within an existing heritage building, good ceiling height is provided for all of the dwellings but not in full compliance with the standard. A majority of units are provided as gallery style, with 50% of area given to a double high living area of 4.8m, the other 50% provides a mezzanine bedroom above the kitchen / dining area with ceiling heights of 2.3m. The roof extensions have been designed to maintain a low profile in keeping with the existing roof height, thus the dwelling units are not fully compliant with the ceiling height, but are designed with full height glazing across the full external wall to make the internal space full larger and brighter.

Private outdoor space

6. A minimum of 5 sqm of private outdoor space should be provided for 1-2 person dwellings and an extra 1 sqm should be provided for each additional occupant.

Due to working within the constraints of existing heritage bulidings, private outdoor amenity space has not been achieved for every unit. 21 dwellings out of 37 total are provided with private outdoor amenity space greater than 5 sqm. Additional shared amenity space is provided for the development, such as the common roof terrace on Karslake (24 sqm) and garden space to the north of Karslake and the east of Ruston & Ward.

7. The minimum depth and width for all balconies and other private external spaces should be 1.5m.

Due to the constraints of the existing heritage buildings this has not been fully met. The roof extensions are set back from the existing facade to provide a terrace of minimum 850mm depth, increasing to 1150mm in some units. The large roof terrace on the Karslake side extension is 4.5m x 5.5m in size.

8. Residential development should maximise the provision of dual aspect dwellings and normally avoid the provision of single aspect dwellings.

Due to working within the constraints of existing heritage bulidings, not all dwellings have been provided with dual aspects, but where possible dual aspect dwelling have been provided.

9. The design of development should provide sufficient daylight and sunlight to new housing that is appropriate for its context, whilst avoiding overheating, minimising overshadowing and maximising the usability of outside amenity space.

This has been met within the proposal. Each dwelling is provided with significantly sized windows to allow sufficient daylight inside. The new roof extensions are provided with a large overhange to minimise overheating.

10. Dwellings should be designed with adequate and easily accessible storage space that supports the separate collection of dry recyclables (for at least card, paper, mixed plastics, metals, glass) and food.

This has been met within the proposal.

9	10	39 (37) *			1						
	3b	50	20		1.5						
i)	Зр	61	70		2						
	4p	70	79		1						
<u>.</u>	4ρ	74	84	90	2.5						
	5p	86	93	99							
	6ρ	95	102	188	1						
8	5p	90	97	103	з						
	бр	99	105	112	1						
	7p	108	115	121	1						
	80	117	124	130	1						
2	6p	103	110	116	3.5						
	7p	112	119	125	1						
	8p	121	128	134	1						
1	7p	116	123	129	4						
	8ρ	125	132	138	1						

Minimum space standards for new dwellings,

taken from UK Nationally described space standards

Appendix Housing standards

Proposed Dwelling sizes

The dwellings are of a high design standard, with most providing significantly greater internal floor area than required.

Due to working within the existing heritage buildings, as noted on the previous page, one unit falls very slightly under area:

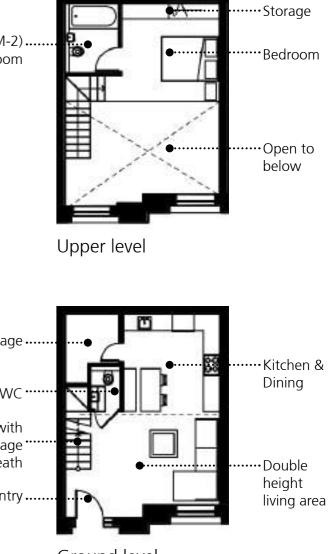
Individual dwelling sizes

Space	Description			I .				NSA (sqm) Residential			G	GIA (sqm)	Accessibility	
	New build / existing	Notes	Level								Residential			Part M Type	
				1b 2p 2b 3p 2b	2b 3p 2b 4p	4p 3b 5p 3	3b 6p 4b 8p	Main	Upper	Sub-total	Main	Upper	Sub-total		_
Karslake	9														
Jnit 1	Existing	Pump house West	Level 0	1				56.3	0.0	56.2	61.9	0.0	61.9	Type 3	(N
Jnit 2	Existing	Central block	Level 0 + 1		1	L		61.9	39.8	101.7	70.4	44.3	114.7	Type 2	Bathro
Jnit 3	Existing	Central block	Level 0 + 1	I .	1	L		58.9	38.8	97.7	63.4	42.9	106.3	Type 2	Bathro
Jnit 4	Existing	Central block	Level 0 + 1	1				39.3	20.6	59.9	42.4	23.6	66.0	Type 2	
Jnit 5	Existing	Central block	Level 0 + 1	1				37.9	20.6	58.5	40.8	23.5	64.3	Type 2	
Jnit 6	Existing	Central block	Level 0 + 1	1				36.7	20.6	57.3	39.6	22.5	62.1	Type 2	
Jnit 7	Existing	Central block	Level 0 + 1	1				34.7	20.6	55.3	37.5	22.4	59.9	Type 2	
Jnit 8	Existing	Central block	Level 0 + 1		1			54.6	25.4	80.0	59.6	31.6	91.2	Type 2	
Jnit 9	Existing	Central block	Level 0 + 1	I .	1			51.5	25.4	76.9	55.4	30.9	86.3	Type 2	
Jnit 10	Existing	Pump house East	Level 0 + 1	1				40.3	28.8	69.1	42.9	32.3	75.2	Type 1	
Jnit 11	Existing	Pump house East	Level 0 + 1	1				40.3	26.1	66.4	45.3	31.1	76.4	Type 1	
Jnit 12	New	Extension SE	Level 0 + 1			1		46.9	55.7	102.6	51.1	62.3	113.4	Type 2	
Jnit 13	Existing	Pump house West	Level 0	1				71.1	0.0	71.1	72.4	0.0	72.4	Type 3	
Jnit 14	Existing	Pump house West	Level 1 + 2				1	72.8	78.5	151.3	76.1	80.1	156.2	Type 2	
Jnit 15	New	Roof	Level 2	I .	1			69.9	0.0	69.9	72.7	0.0	72.7	Type 2	
Jnit 16	New	Roof	Level 2	I .	1			64.9	0.0	64.9	77.6	0.0	66.6		
Jnit 17	New	Roof	Level 2	I .	1			77.0	0.0	75.9	68.2	0.0	78.1	Type 2	
Jnit 18	New	Roof	Level 2	I .	1			71.1	0.0	71.1	73.8	0.0	73.8		
Jnit 19	Existing	Pump house East	Level 2 + 3	I .			1	84.4	72.8	157.2	85.8	72.8	158.6	Type 1	1
Jnit 20	Existing	Pump house West	Level 3 + Mz	I .			1	126.3	103.9	230.2	129.4	103.4	232.8	Type 2	
(arslake Su	<u> </u>			8	26	; 1	2 1			1773.1			1888.9	.,,, = =	C L
					Units total	-							2000.0		Stor
Ruston &	ward				onito total										1
		Control block	Level 0 + 1	1				41 C	21.0	C 2 2	42.7	22.5	67.2	Turne 2	
Jnit 1	Existing	Central block		1				41.6	21.6	63.2		23.5	67.2		(M-2)
Jnit 2 Jnit 3	Existing	Central block	Level 0 + 1 Level 0 + 1	1				47.6 41.9	21.0 22.0	68.6 63.9	49.8 45.0	22.8 25.1	72.6		,
	Existing	Central block		1									70.1	Type 2	Stair v
Jnit 4	Existing	Central block	Level 0 + 1	1				38.8	22.1	60.9 63.0	41.2	24.8	66.0		
Jnit 5	Existing	Central block	Level 0 + 1	1				41.3	21.7		44.1	24.8	68.9		stor
Jnit 6	Existing	Central block	Level 0 + 1		1			80.2	57.1	137.3	85.3	63.4	148.7	Type 2	underne
Jnit 7	Existing	Central block	Level 0 + 1	1				53.5	27.4	80.9	58.6	32.7	91.3		l.
Jnit 8	Existing	Pump house	Level 0 + 1	1				38.5	27.4	65.9	41.3	31.2	72.5		E
Jnit 9	Existing	Pump house	Level 0 + 1	1				39.2	24.7	63.9	44.6	30.3	74.9		1
Jnit 10	New	Roof extension	Level 2	I .	1			64.5	0.0	64.5	66.1	0.0	66.1	Type 2	
Jnit 11	New	Roof extension	Level 2	I .	_	1		88.2	0.0	88.2	89.5	0.0	89.5	Type 2	
Jnit 12	New	Roof extension	Level 2	I .	1			61.9	0.0	61.9	63.9	0.0	63.9	Type 2	l.
Jnit 13	Existing	Pump house	Level 2+3	<u> </u>			1	82.0	71.1	153.1	83.4	71.1	154.5	Type 1	-
&W Subto	tal			8		. 1	0 1			1035.2			1106.2		
				13	Units total										
Cottages															
No. 3	Existing	Cottage	Level 0 + 1	1		1		58.7	57.1	115.8	61.9	59.8	121.7		
No. 4	Existing	Cottage	Level 0 + 1	1		1		55.7	57.1		58.9	59.8			
No. 3	Existing	Cottage (Storage)	Basement -1					15.0		15.0	18		18	Type 1	
No. 4	Existing	Cottage (Storage)	Basement -1					15.0		15.0	18		18	Type 1	
Cottages Su	btotal					2				258.5			276.4		
				2	Units total										
Storehouse															
torobource	Existing +	Store conversion				1		07 5	0.0	07 5	90.5	0	00.5	Turce 2	
storehouse Storehouse		Store - conversion	Level 0			1		87.5	0.0	87.5 87.5	90.5	0	90.5 90.5	Type 3	
	Subtoldi			1.0	Units total	1				07.5			50.5		

36 Total Proposed Units

LOM architecture and design | Hampton Waterworks Design & Access Statement

Typical 1-bed, gallery style flat



Ground level

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