Technical note

Project:	Hampstead Heath Ponds Project	То:	Jonathan Markwell, London Borough of Camden
Subject:	Ladies' Bathing Pond MOL Assessment	From:	Vicky Evans
Date:	23 Jul 2014	cc:	Joanne Farrar

Further to your request by email 8th July 2014 for confirmation of the existing and proposed volumes of the Ladies' Bathing Pond building and confirmation of calculations for volume and floor area, please find the required details within this technical note and on the enclosed drawings.

Existing and proposed internal floor area

The existing and proposed internal floor areas are 97m2 and 121m2 respectively, as confirmed in the Ladies' Bathing Pond Replacement Facility DAS. The attachment 1008-SoA-140711 is an extract from the Ladies' DAS which shows how these figures have been arrived at.

Existing external floor area and volume

For MOL calculations the external floor area is normally used. Attached annotated drawing number HH 5064/02/B (in 'annotated drawings' PDF) shows how the external floor area has been calculated for the existing **main changing room building**:

Area A – 8.8m x 5.4m = 47.52m2 Area B – 12m x x3.7m = 44.4 m2 Total A + B = **91.92m2 (rounded to 92m2) (external floor area)**

Please see attached annotated drawing PD1300 (in 'annotated drawings' PDF) where heights are shown:

Height of lowest part of the roof of the main changing room building = 2.8m

So volume of the building without roof is - 2.8m (height) x 92m2 (floor area) = 257.6m3 (rounded to 258m3)

Roof volume – 5m (roof width) x 9.1m (roof length) x 0.9 (height of roof) /2 (as it is a triangle) x 2 (as there are two of them) = 40.95m3 (rounded to 41m3)

So total volume of main changing room building is - 41m3 + 258m3= 299m3

The external floor area and volume of the three portacabins and one shower shed (all to be removed) is calculated below – please see attached annotated drawing PD1300 (in 'annotated drawings' PDF):

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Portacabin 1 - 4m \times 2m = 8m2 (=external floor area) \times 3m (height) = 24m3 (=volume)
Portacabin 2 - 3m \times 2m = 6m2 (=external floor area) \times 3 = 18m3 (=volume)
Portacabin 3 - 4m \times 2m = 8m2 (=external floor area) \times 3 (height) = 24m3 (=volume)
Shower shed - 1m \times 1m = 1m2 (=external floor area) \times 3 (height) = 3m3 (=volume)
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The shower shed and portacabin 3 are not on the existing drawings, however should be included as they are permanent buildings on site that will be removed if the proposed development goes ahead. The location of portacabin 3 is behind the existing main changing facility as shown at <u>http://binged.it/1sLl65f</u>.

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Total external floor area of existing building and portacabins = 115m2 Total volume of existing building and portacabins = 368m3

Proposed external floor area and volume

Attached annotated drawing PD1010 (in 'annotated drawings' PDF) shows how the external floor area of the proposed building has been calculated.

Area A (lifeguard area) – $11.1m \times 5.3m = 58.83m2$ (rounded to 59m2) Area B (changing and plant) – $12.5m \times 7.5m = 93.75m2$ (rounded to 94m2) Minus Area C (external showers) – $2m \times 2m = 4m2$

Total proposed external floor area – 58.83 + 93.75 - 4 = **149m2 Total proposed volume** – 148.58 x 3.2m (height) = **476.8m3 (rounded to 477m3)**

Percentage increases

	Existing	Proposed	Percentage Increase
Internal Floor Area	97m2	121m2	24.7%
External Floor Area	115m2	149m2	29.5%
Volume	368m3	477m3	29.6%

MOL Policy

MOL is provided with the same protection as Green Belt land. The NPPF confirms that new buildings are inappropriate in the Green Belt; however exceptions include the replacement of a building provided that the new building is in the same use and is not materially larger than the one it replaces. The above table shows the percentage increases from existing to proposed (24.7% for internal floor area, 29.5% for external floor area and 29.6% for volume). All of the percentage increase figures are moderate and would not be considered to be materially larger as required by NPPF policy. It should be noted that the NPPF policy does not provide a set percentage increase allowable, instead each application should be assessed on its individual merits. In terms of whether the proposed facility would be materially larger the assessment should take into consideration the fact that the proposed replacement facility would be on the same site as the existing facility, the development would be much more contained on site due to the removal of the two portacabins and would have a reduced roof height in comparison to the existing building (down from a maximum of 3.7 to 3.2 metres).

In addition to the NPPF allowance for replacement buildings as discussed above, it also allows for new buildings in MOL locations provided they are appropriate facilities for outdoor sport and recreation which preserve the openness of the Green Belt and do not conflict with the purposes of including land within it. Due to the nature of the use of this pond (for swimming) and the fact that it is a year round activity, the proposed replacement facility would be considered to be essential for the swimming use of the pond. The proposed building provides only the essential facilities to allow the use to continue (changing rooms, lifeguard areas, showers and toilets); the increase in size of the building allows it to be built to efficient modern standards and to comply with the Equality Act and health and safety requirements.

The proposed replacement facility would ensure compliance with the Equality Act and Health and Safety requirements, full details are provided in the Ladies' Bathing Pond DAS and are briefly listed below:

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- The current lifeguard facilities do not contain adequate welfare facilities (e.g. no showering facilities, office space, kitchenette, WC) and the existing windows do not allow for full sightlines over the pond raising health and safety concerns. The proposed facility addresses these inadequacies.
- The current facilities do not enable disabled access and the disabled WC doubles as a first aid room and is inadequate in size. The proposed facility includes level access, accessible WC and shower and accessible first aid.
- The current plant room is not health and safety compliant, the proposal is to include this within the existing building.
- The existing equipment and first aid area is not accessible from the deck, raising health and safety concerns.
- Store room serves as a plant room, which does not comply with health and safety requirements.

2. Brief

Walters and Cohen's brief for the work at the Kenwood Ladies' Bathing Pond is to replace the existing buildings with new buildings located on the existing deck. The existing buildings are in no longer large enough to accommodate the needs of lifeguards and users, and changing rooms and toilets do not meet current building standards and regulations. Most importantly the new buildings will address safety, equal access and welfare issues as follows:

Improved changing rooms, shower and toilets to meet requirements in line with the Equality Act (EA) and National Building Regulations

Improved lifeguards' observation area for safety of swimmers Improved lifeguards' office and rest area Improved observation of swimmers Improved crowd management and observation on the deck area

Existing accommodation schedule

Room names	Description	Area	Notes
Lifeguard area	Observation area		
	Office space		
	Kitchenette		
	WC		
	Shower	34 sqm	No adequate welfare facilities for lifeguards
WC area	Washbasin		
	wc		
	Accessible WC/ first aid	17 sqm	Not a designated accessible WC. Size not compliance
External changing area	Changing cubicles		
	Communal changing area	24 sqm	
Internal changing area	Shower/accessible shower		Shower not accessible and not adequate size.
	Communal changing area	20 sqm	
Platform area	External covered area		
	External non-covered area		
Plant room		2 sqm	Not heath and safety compliance
Platform area		100 sqm	
Gross internal area		97 sqm	

Proposed accommodation schedule

Room names	Description	Area
Lifeguard area	Observation area	
	Office space	
	Kitchenette	
	WC	
	Shower/ first aid	46 sqm
WC area	Washbasin	
	wc	
	Accessible WC	22 sqm
External changing area	Changing cubicles	
	Communal changing area	24 sqm
Internal changing area	Shower/accessible shower	
	Communal changing area	26 sqm
Platform area	External covered area	
	External non-covered area	
Plant room		3 sqm
Platform area		100 sqm
Gross internal area		121 sqm

Notes
Increase for designated first-aid room and welfare facilites
Increase to accommodate compliant accessible WC
Increase to accommodate compliant accessible shower
Increase to be compliance

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NOTES: Please refers to Atkins' dam engineer drawings for details of spillway. Please refers to Atkins' landscape architect drawings for details of landscape and trees.			
Please refers to Atkins' landscape architect drawings for details of landscape and trees. Rev Date Amendment - 20.06.14 Issue to Atkins for review	<u>\$^c</u> N	WALTERS & COHEN ARCHITECTS	2 Wilkin Str London NW5 3NL
		Kenwood Ladies' Bathing Pond	Propos
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Planning

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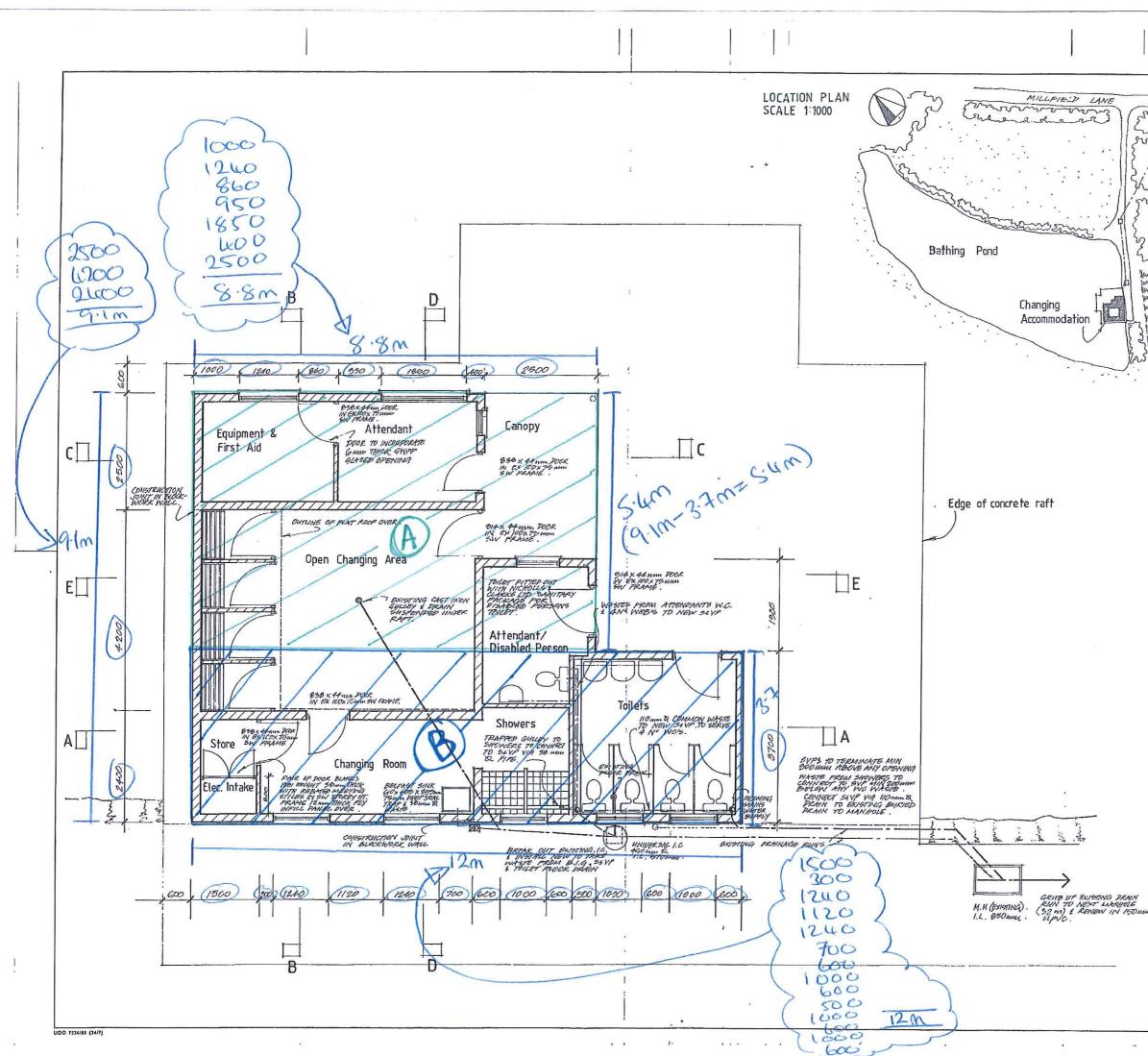
Telephone 020 7428 9751 Facsimile 020 7428 9752

mail@waltersandcohen.com

sed ground floor plan

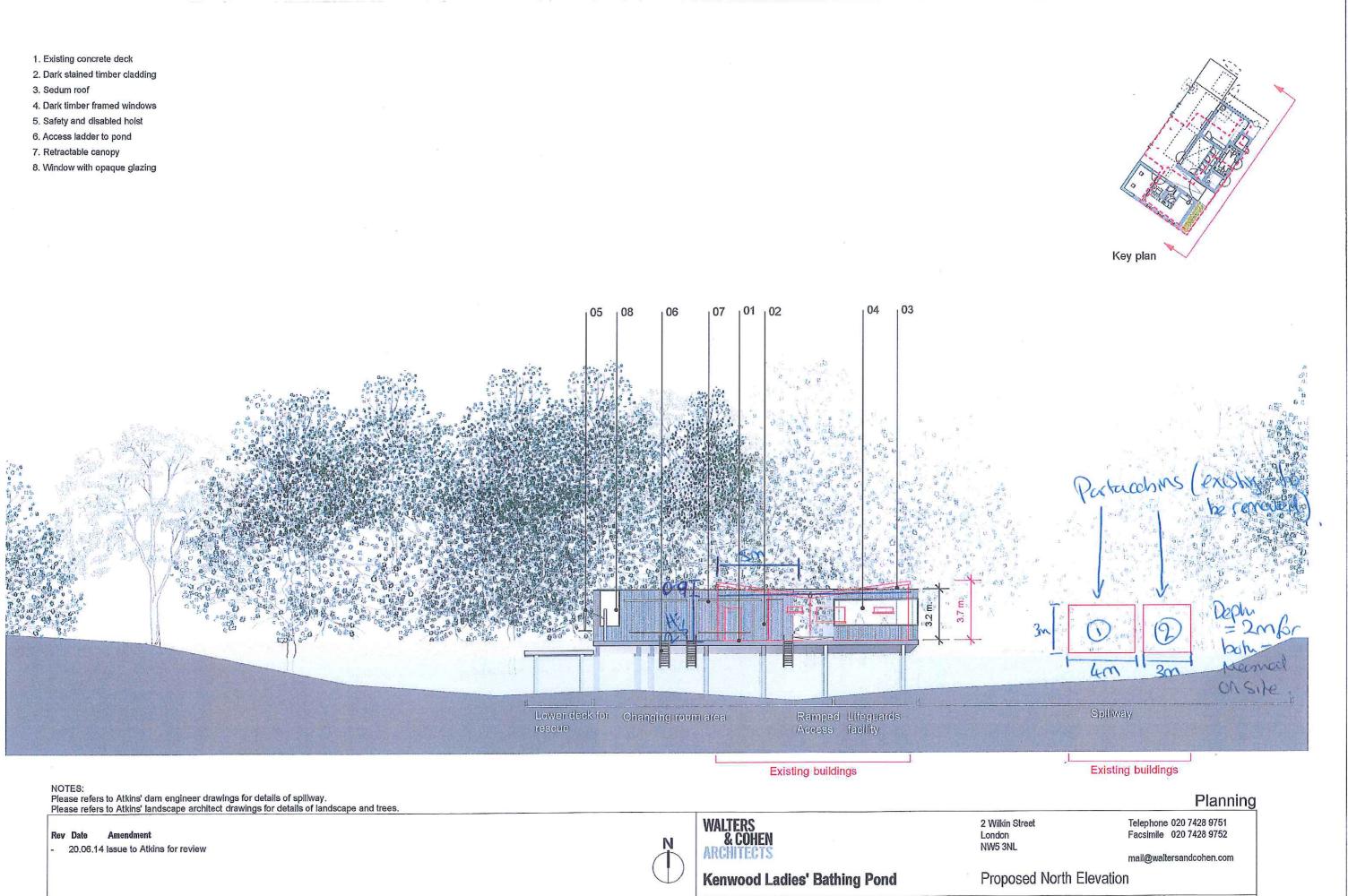
Drawing No.	Revision
PD1010	

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Notes Do not scale. All dimensions to be checked on site Errors to be reported to supervising officer sos FOUNDATIONS: Sin EXISTING CONCRETE RAFT APAROX ISOU THUR PROJECTING OVER POND SUPPORTE ON CONCRETE PIERS. WALS . EXTERNAL WHUS IN 200 MAN THICK THERMALITE THREO' BLOCKWARL IN 1:1:10 C:1:1:3 HORTAR MIX FINISHED EXTERNALLY IN ILMMA REVDER L INTERNALLY IN PLASTER J C.S. REVID KENNCOS INTERNAL WHUS IN 100 KM BLOCKY GENERALLY PLASTER & SKIM BOTH PPC IN THE FORM OF 3 Nº COURSES ENGINEERING BRICKS TO ML WALLS FLOORS: ALL FLOORS EXCEPT DEEN CANNELING ACEA TO RECEIVE LOMM THICK MASTIC ASPHALT FONSH DREESED UP INTERNAL WALLS TO DREASED UP INTERNAL WALLS TO PORM SHETTING FOOMMA HIGH. here Jun Jun PROPOSED WINDOWS: SINGLE GLAZED TOP HUNG FROM BOHLTON & PANL BANAG. Im ROOF : 21/1 3 LAYBE BUILT UP HIGH PERFORMANC FEVITS ON SOURCE SOLAG FURCHER INSULATION ON VAPOUR FARELE GY IDIM EXTERIOR GRAPE FLY PERKING O REAT JOISTS. Anies DRAINAGE : NGY \$647 IN 100000 & UPVC TO CONNECT O EXISTING DEANNAUS SYSTEM TEAPS TO SHOWER & SINK TO BE TSUE PECF \$642. RAINWATER GOODS IN C.I. 100mm & VE POUND GUTTER & TSUM & FWF LAYCUT OPENINGS: CONCRETE LINTULS OVER OPENINGS MIN BEAKING ISOULU ENCH END BATHING RUD L.A. REVISIONG . WINDOWS CHANGED Revision 書書 第44141 日本 Drawn Date CORPORATION OF LONDON Department of Building and Services GS Curry DipArch DipTP RIGA MRTPI Director of Building and Services Corporation of London PO Box 270 Guildhall 071-605 3030 London EC2P 2EJ Fax 260 1140 HHSC64/02 Date JAN .1991 Drawn BJB Scal App Des 1:50 roject **KENWOOD LADIES** BATHING POND HAMPSTEAD HEATH CHANGING ACCOMMP. PROPOSED LAYOUT Drawing No. HH 5064/02/B AB .. .

2. Dark stained timber cladding 3. Sedum roof 4. Dark timber framed windows 5. Safety and disabled hoist 6. Access ladder to pond 7. Retractable canopy



Job No. Scale 1:200@A3 Date Drawn Checked by 20.06.2014 1008 JW

Drawing No.	Revision
PD1300	-

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