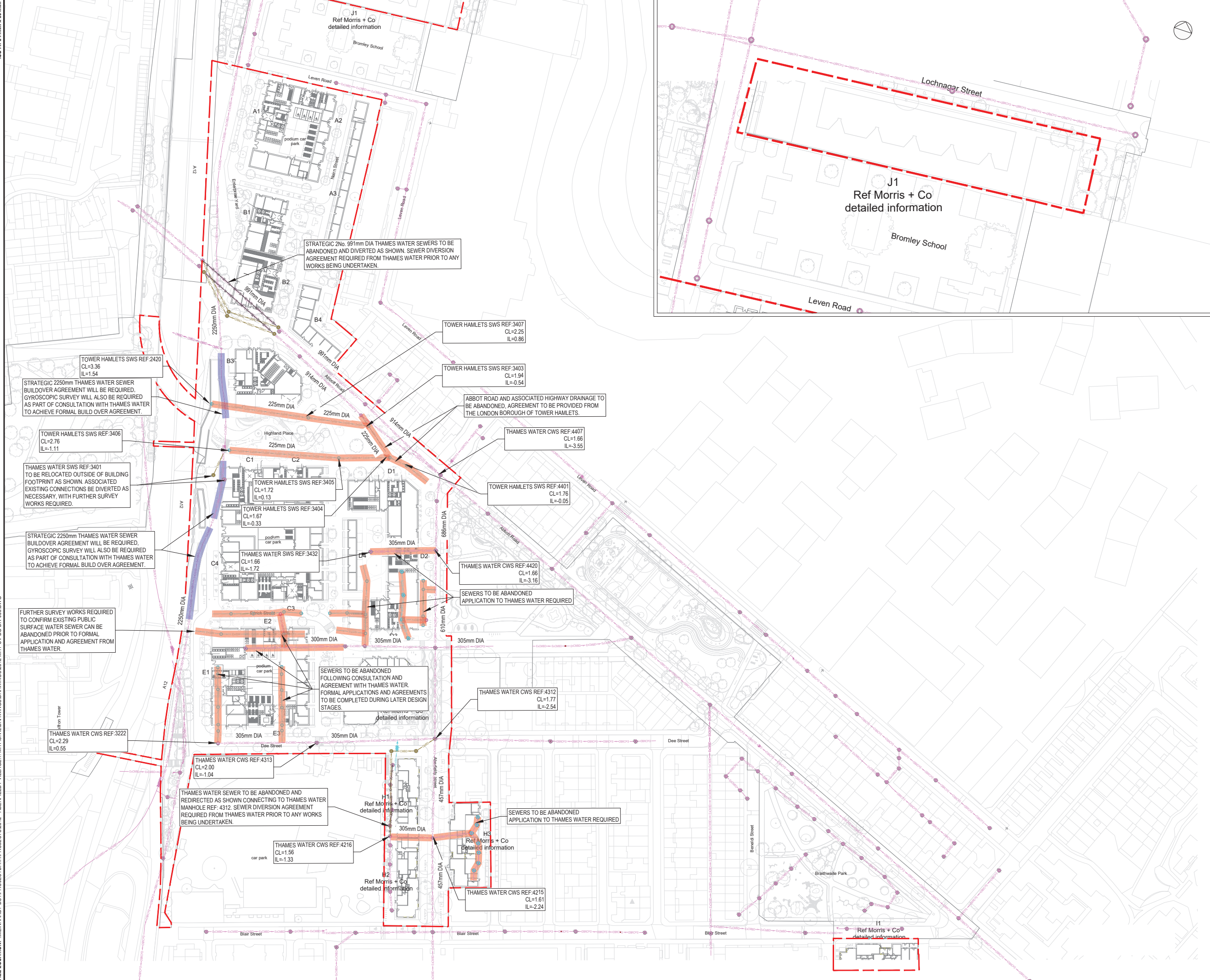


ISO A1 841mm x 594mm  
 DATE: 14/10/2021  
 FILE LOCATION: \\MEINHARDT-DC\PROJECTS\2812 - ABERFELDY VILLAGE\1. MHT\CIVIL\DRAWINGS\DRAWINGS\2812.MHT-CV-BG-DR-050.DWG



**ISSUED FOR INFORMATION**

REV	DESCRIPTION	BY	DATE
P01	STAGE 2 ISSUE	LH	20/08/21
P02	DRAFT STAGE 2 - ISSUED FOR PLANNING	LH	17/09/21
P03	ISSUED FOR PLANNING	LB	14/10/21

- NOTES:**
- DO NOT SCALE FROM THIS DRAWING
  - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - THIS DRAWING IS FOR INFORMATION ONLY.
  - DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND CONSULTANTS DRAWINGS AND SPECIFICATIONS.
  - THIS DRAWING IS BASED ON:
    - THAMES WATER ASSET RECORDS DATED NOVEMBER 2020
    - LEVITT BERNSTEIN ARCHITECTURAL MASTERPLAN 3663 - 100A - Proposed LGF Plan - Scenario A - P10, DATED: 10/08/21
    - TOPOGRAPHICAL & UTILITIES COMBINED SURVEY FULL SITE V2

- KEY:**
- SITE BOUNDARY
  - EXISTING SURFACE WATER SEWER
  - EXISTING COMBINED WATER SEWER
  - PROPOSED COMBINED WATER SEWER
  - EXISTING SURFACE WATER MANHOLE
  - EXISTING COMBINED WATER MANHOLE
  - PROPOSED COMBINED WATER MANHOLE
  - SEWER TO BE ABANDONED
  - SEWER TO BE PASSED THROUGH STRATEGIC THAMES WATER SEWER BUILD OVER AGREEMENT
  - SEWER TO BE DIVERTED & ABANDONED

CDM RESIDUAL CIVIL / STRUCTURAL DESIGN RISKS



**PROJECT**  
 ABERFELDY VILLAGE  
 MASTERPLAN

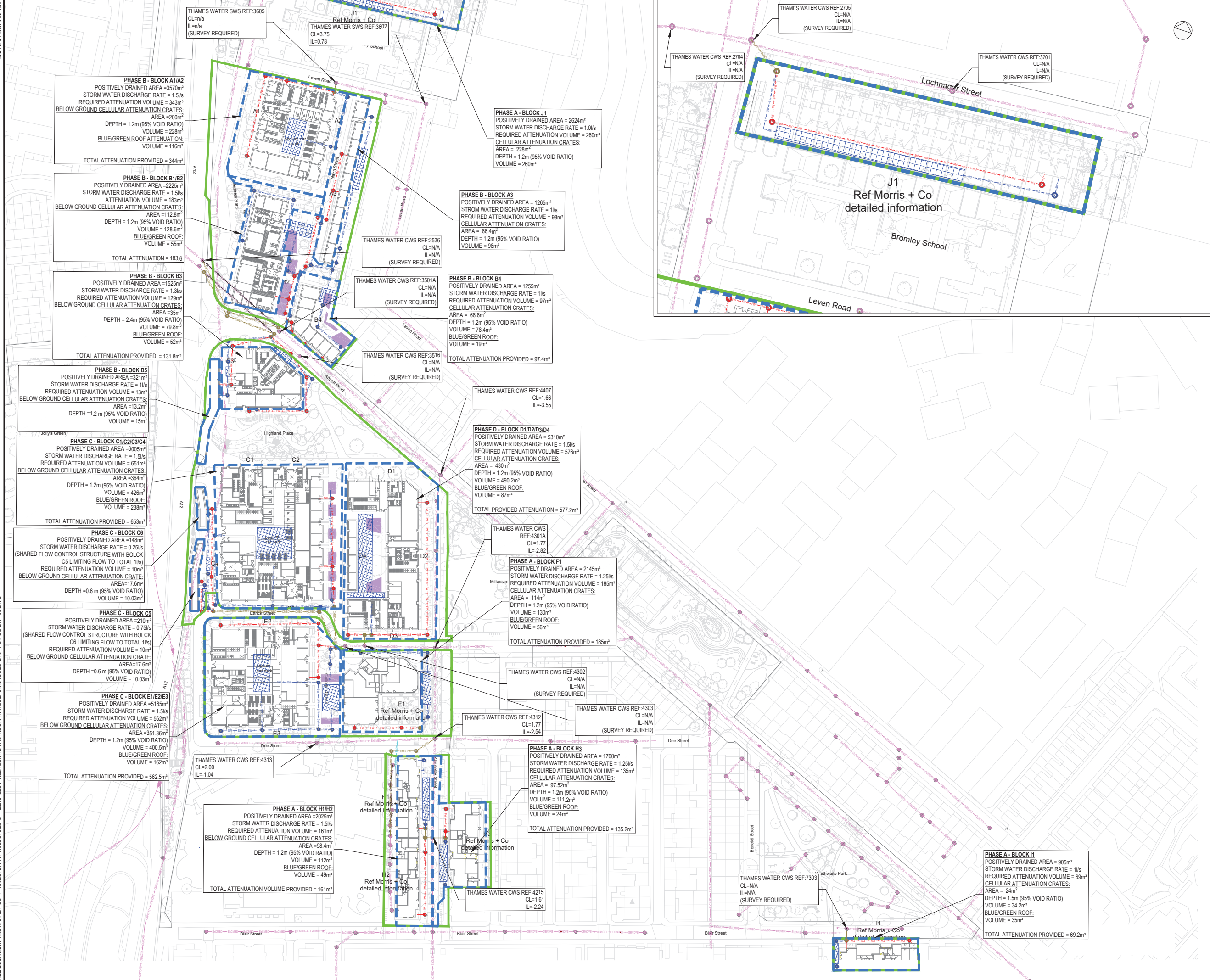
**CLIENT**  
 ECOWORLD

**TITLE**  
 THAMES WATER SEWER  
 ABANDONMENT AND  
 BUILD OVER MAP

DISCIPLINE	SCALE
CIVIL	1:1000
DRAWN	DESIGNED
LH	LH
CHECKED	APPROVED
LB	CM
DRAWING No	ISSUE
2812-MHT-CV-BG-DR-050	P03



DATE: 14/10/2021  
 FILE LOCATION: \\MEINHARDT-DC\PROJECTS\2812 - ABERFELDY VILLAGE1 - MHT\CIVILDRAWINGS\DRAWINGS\2812.MHT-CV-BG-DR-100.DWG



**ISSUED FOR INFORMATION**

REV	DESCRIPTION	BY	DATE
P01	STAGE 2 ISSUE	LH	20/08/21
P02	SUSTAINABILITY PRESENTATION	LB	25/08/21
P03	DRAFT STAGE 2 - ISSUED FOR PLANNING	LH	17/09/21
P04	ISSUED FOR PLANNING	LB	14/10/21

- NOTES:**
- DO NOT SCALE FROM THIS DRAWING
  - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
  - THIS DRAWING IS FOR INFORMATION ONLY.
  - DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND CONSULTANTS DRAWINGS AND SPECIFICATIONS.
  - PERMEABLE PAVING TO BE UTILIZED IN PRIVATELY MANAGED PUBLIC SPACE WHERE FEASIBLE.
  - THIS DRAWING IS BASED ON:
    - THAMES WATER ASSET RECORDS DATED NOVEMBER 2020
    - LEVITT BERNSTEIN ARCHITECTURAL MASTERPLAN 3663 - 100A - Proposed LGF Plan - Scenario A - P10, DATED: 10/08/21
    - TOPOGRAPHICAL & UTILITIES COMBINED SURVEY FULL SITE V2

TOTAL DISCHARGE RATE FROM SITE IS EQUAL TO THE GREENFIELD RUNOFF RATE OF 18.73 L/S.

**KEY:**

	ASSUMED PROPERTY BOUNDARY
	PROPOSED SURFACE WATER SEWER
	EXISTING SURFACE WATER SEWER
	PROPOSED FOUL WATER SEWER
	EXISTING COMBINED WATER SEWER
	PROPOSED COMBINED WATER SEWER
	ABANDONED SEWER
	PROPOSED SURFACE WATER MANHOLE
	EXISTING FOUL WATER MANHOLE
	PROPOSED FOUL WATER MANHOLE
	EXISTING COMBINED WATER SEWER
	PROPOSED COMBINED WATER MANHOLE
	PROPOSED BELOW GROUND SURFACE WATER ATTENUATION TANK
	SUDS PLANTER (BIO-RETENTION)
	ASSUMED POSITIVELY DRAINED BLOCK AREA

CDM RESIDUAL CIVIL / STRUCTURAL DESIGN RISKS



PROJECT  
**ABERFELDY VILLAGE MASTERPLAN**

CLIENT  
**ECOWORLD**

TITLE  
**BELOW GROUND DRAINAGE MASTERPLAN**

DISCIPLINE	SCALE
CIVIL	1:1000
DRAWN	DESIGNED
LH	LH
LB	LB
DRAWING No	ISSUE
2812-MHT-CV-BG-DR-100	P04



ISO A1 841mm x 594mm  
 DATE: 14/10/2021  
 FILE LOCATION: \\MEINHARDT-DC\PROJECTS\2812 - ABERFELDY VILLAGE\1 - MHT\CIVIL\DRAWINGS\2812\MHT-CV-RF-DR-01.DWG



**ISSUED FOR INFORMATION**

REV	DESCRIPTION	BY	DATE
P01	STAGE 2 ISSUE	LH	20/09/21
P02	DRAFT STAGE 2+ FOR PLANNING	LH	17/09/21
P03	ISSUED FOR PLANNING	LB	14/10/21

- NOTES:**
- DO NOT SCALE FROM THIS DRAWING
  - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
  - THIS DRAWING IS FOR PLANNING PURPOSES.
  - DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND CONSULTANTS DRAWINGS AND SPECIFICATIONS.
  - THIS DRAWING IS BASED ON:
    - LEVITT BERNSTEIN ARCHITECTURAL MASTERPLAN DWG REF: 3663 - 130 - Proposed Roof plan - Scenario A - P6.
    - MORRIS AND COMPANY ROOF PLANS A303-MCO-BF-R1-DR-A-01122, A303-MCO-BH-R1-DR-A-01138 & A303-MCO-BI-R1-DR-A-01158.

**NOTE:**  
 A 50% REDUCTION IN BLUE/GREEN ROOF PLAN AREA IS APPLIED WHERE ROOF PLANT AREAS ARE UNKNOWN. THIS REDUCTION IS EXCLUDING PODIUM BLUE ROOF AREAS.

- KEY:**
- PROPOSED PODIUM DECK BLUE ROOF AREA
  - PROPOSED BLUE OR GREEN ROOF AREA
  - PROPOSED BLUE ROOF AREA

CDM RESIDUAL CIVIL / STRUCTURAL DESIGN RISKS



PROJECT  
**ABERFELDY VILLAGE MASTERPLAN**

CLIENT  
**ECOWORLD**

TITLE  
**ROOF MASTERPLAN**

DISCIPLINE	SCALE
CIVIL	1:1000
DRAWN	DESIGNED
LH	LH
CHECKED	APPROVED
LB	CM
DRAWING No	ISSUE
2812-MHT-CV-BG-DR-101	P03

## Appendix D – Tower Hamlets SUDS Proforma



1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	Aberfeldy Village
	Address & post code	Poplar Riverside, Aberfeldy Village, E14, London
	OS Grid ref. (Easting, Northing)	E 538365
		N 181398
	LPA reference (if applicable)	
	Brief description of proposed work	The Aberfeldy Village Masterplan aims to deliver, up to 1628 new homes, new workspace, a new high street, new and improved open space and the pedestrianisation of the A12 Abbott Road
	Total site Area	48334 m <sup>2</sup>
	Total existing impervious area	37000 m <sup>2</sup>
	Total proposed impervious area	36418 m <sup>2</sup>
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	no
	Existing drainage connection type and location	Traditional piped system, multiple connection points
	Designer Name	Luke Boustead
Designer Position	Senior Engineer	
Designer Company	Meinhardt	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility			
	Superficial geology classification	Alluvium - Clay, Silt, S		
	Bedrock geology classification	London Clay Formation		
	Site infiltration rate	1.12x10 <sup>-4</sup> and 2.55x10 <sup>-4</sup>	m/s	
	Depth to groundwater level			m below ground level
	Is infiltration feasible?			No
	2b. Drainage Hierarchy			
		Feasible (Y/N)	Proposed (Y/N)	
	1 store rainwater for later use	N	N	
	2 use infiltration techniques, such as porous surfaces in non-clay areas	N	N	
	3 attenuate rainwater in ponds or open water features for gradual release	N	N	
	4 attenuate rainwater by storing in tanks or sealed water features for gradual release	Y	Y	
	5 discharge rainwater direct to a watercourse	N	N	
	6 discharge rainwater to a surface water sewer/drain	N	N	
	7 discharge rainwater to the combined sewer.	Y	Y	
2c. Proposed Discharge Details				
Proposed discharge location	locations to Thames Water public combine			
Has the owner/regulator of the discharge location been consulted?	Thames Water. Response received confirm			



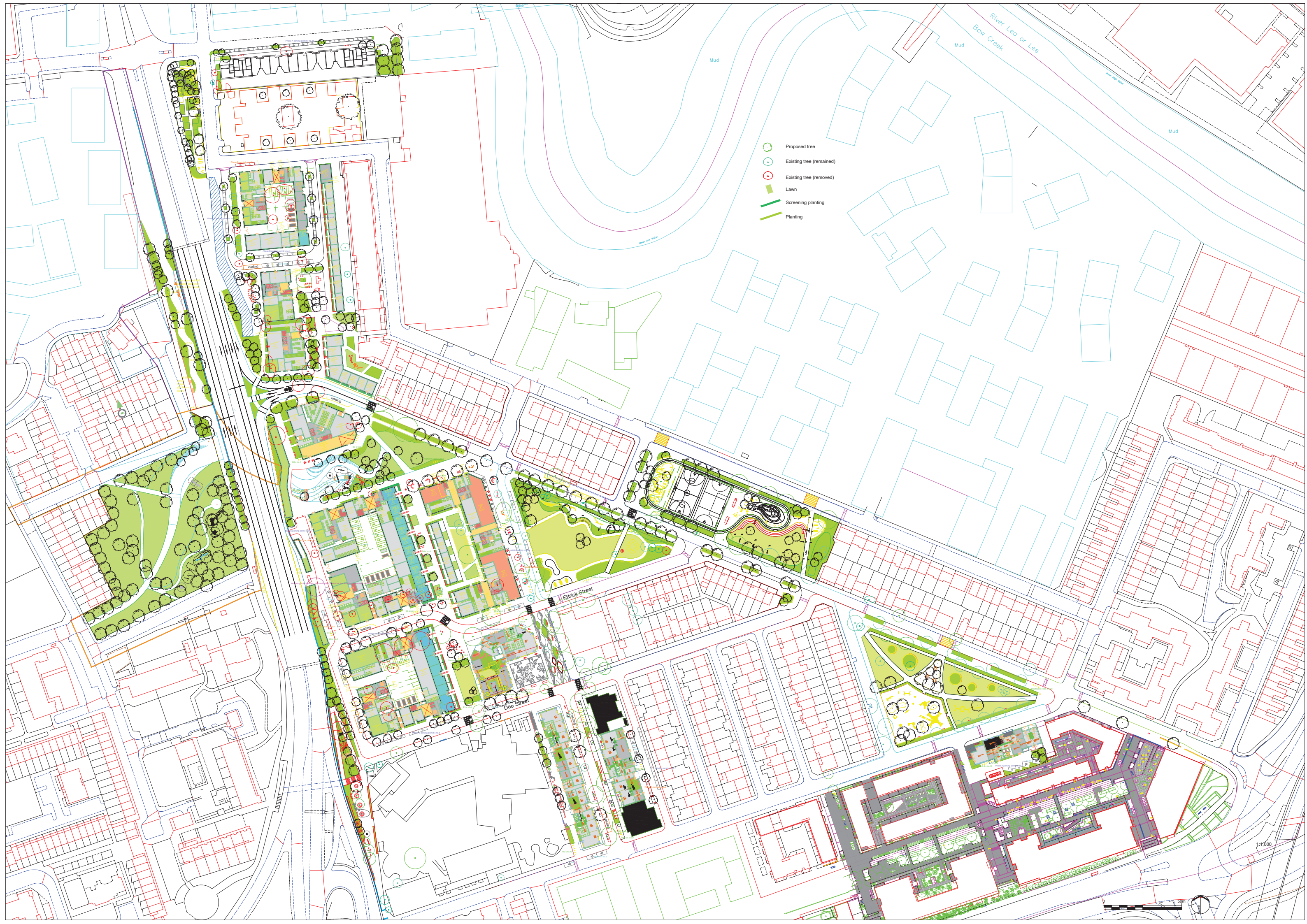
3a. Discharge Rates & Required Storage				
	Greenfield (GF) runoff rate (l/s)	Existing discharge rate (l/s)	Required storage for GF rate (m <sup>3</sup> )	Proposed discharge rate (l/s)
Qbar	18.8	<del>                    </del>	<del>                    </del>	<del>                    </del>
1 in 1				18.8
1 in 30				18.8
1 in 100				18.8
1 in 100 + CC	<del>                    </del>	<del>                    </del>		18.8
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Vortex Flow control (Hydro-Brake or similar)		
3c. Proposed SuDS Measures				
	Catchment area (m <sup>2</sup> )	Plan area (m <sup>2</sup> )	Storage vol. (m <sup>3</sup> )	
Rainwater harvesting	0	<del>                    </del>	0	
Infiltration systems	0	<del>                    </del>	0	
Green roofs	7000	3500	335	
Blue roofs	11000	6500	620	
Filter strips	0	0	0	
Filter drains	0	0	0	
Bioretention / tree pits	3500	730	0	
Pervious pavements	0	0	0	
Swales	0	0	0	
Basins/ponds			0	
Attenuation tanks	48334	<del>                    </del>	2000	
<b>Total</b>	<b>69834</b>	<b>10730</b>	<b>2955</b>	

4a. Discharge & Drainage Strategy		Page/section of drainage report
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results		Section 2.1.3
Drainage hierarchy (2b)		Section 2.1.3
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location		Appendix B
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations		Appendix C
Proposed SuDS measures & specifications (3b)		Throughout report
4b. Other Supporting Details		Page/section of drainage report
Detailed Development Layout		Appendix B
Detailed drainage design drawings, including exceedance flow routes		Appendix B
Detailed landscaping plans		Appendix E
Maintenance strategy		Section 2.5
Demonstration of how the proposed SuDS measures improve:		Section 2
a) water quality of the runoff?		Section 2.1.5
b) biodiversity?		Section 2.1.6
c) amenity?		Section 2.1.6



## Appendix E – Architects Plans





- Proposed tree
- Existing tree (remained)
- Existing tree (removed)
- Lawn
- Screening planting
- Planting

1:1000

