

SEWER RECORDS PAGE 2 OF 2

Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape	Node	Cover	Invert	Size	Material	Shape
3205X	13.93	10.98	600	CP	CIRC																		
3350X	14.55	13.37	225	VC	CIRC																		
3450X	14.65	13.41	600	CP	CIRC																		
4300X	14.37	11.26	600	CP	CIRC																		
4301X	14.55	12.6	375	CP	CIRC																		
4302X	14.54	12.74	225	VC	CIRC																		
4303X	14.36	12.92	150	VC	CIRC																		
4350X	14.66	13.61	450	CP	CIRC																		
4351X	14.4	13.13	450	CP	CIRC																		
4353X	14.12	12.82	600	CP	CIRC																		
4400X	14.81	12.83	375	VC	CIRC																		
4401X	14.79	11.49	600	CP	CIRC	*																	
4401Y	14.79	12.79	375	VC	CIRC	*																	
4402X	14.85	12.75	375	CP	CIRC																		
4403X	15.08	13.05	225	VC	CIRC																		
4404X	14.84	13.18	225	VC	CIRC																		
4450X	14.96	13.65	600	CP	CIRC																		
4451X	14.64	13.53	600	CP	CIRC																		
5400X	15.94	14.37	225	VC	CIRC																		
5401X	15.26	13.21	375	VC	CIRC																		
5402X	15.13	11.72	600	CP	CIRC																		
5450Y	15.98		300	VC	CIRC	*																	
5450X	15.98		300	VC	CIRC	*																	
5500X	15.83	13.48	375	CP	CIRC																		
5501X	15.41	12.11	600	CP	CIRC																		
5502X	15.21	13.32	225	VC	CIRC																		
5550X	14.84	12.92	600	CP	CIRC																		
5551X	15.15	13.92	450	CP	CIRC																		
6400X	16.61	14.86	225	VC	CIRC																		
6450X	16.61	15.34	450	CP	CIRC																		
7350X	16.74	15.52	225	CP	CIRC																		
7500X	17.33	15.46	225	VC	CIRC																		
7550X	17.35	15.89	375	CP	CIRC																		
8200X	16.43	14.48	225	VC	CIRC																		
8256X	16.13	14.13	225	VC	CIRC																		
8350X	16.53	14.93	225	VC	CIRC																		

LINE STYLES / COLOURS	MATERIALS	LEGEND - SEWERS
Brown Red Dark Blue Purple Light Blue Yellow Green	AK Asphalt BAC Bonded Asbestos Cement BBC Brick (Common) BRE Brick (Engineering) CC Concrete Box Culvert CI Cast Iron CO Concrete (Pre-Cast) CSB Concrete Segments (boxed) CSU Concrete Segments (unboxed) DI Ductile Iron GRP Glass Reinforced Concrete GRP Glass Reinforced Plastic MNC Masonry in random Courses MAN Masonry in random Courses PE Polyethylene PP High Rate PP Polypropylene PVC Polyvinyl Chloride RPA Reinforced Plastic Manhole SI Spigot Iron ST Steel VC Vitreous Clay XXX Other ZZZ Unknown	Manhole (SW) Manhole (FAC) Lamp hole (SW) Lamp hole (FAC) Pumping Station (SW) Pumping Station (FAC) Side entry manhole (SW) Side entry manhole (FAC) Blind shaft (SW) Blind shaft (FAC) Chamber (SW) Chamber (FAC) Waterlight door (SW) Waterlight door (FAC) Flushing ch. (SW) Flushing ch. (FAC) Flushing ch. (SW) Flushing ch. (FAC) Demarcation Chamber Washout (SW) Washout (FAC) Roading Eye (SW) Roading Eye (FAC) Gauging point (SW) Gauging point (FAC) Franchise chamber (SW) Franchise chamber (FAC) Storm Tank (SW) Storm Tank (FAC) Vortex chamber (SW) Vortex chamber (FAC) Match box (SW) Match box (FAC) Direction arrow Outfall Embankment Canopy Soakaway Inlet Balancing Pond Other (S) Change in sewer (S) Reflex valve Cascade Anode Valve Closed Valve Air Valve Match box (SW) Match box (FAC) Direction arrow Outfall Embankment Canopy Soakaway Inlet Balancing Pond Wastewater treatment works Marine treatment works Outfall headworks Vent Vent column Tidal storage tank Blind end Head of Public Sewer Micro Pumping Station

Drawn by: banerin

Title: 36 Stanbridge Road

Date: 23/03/2013

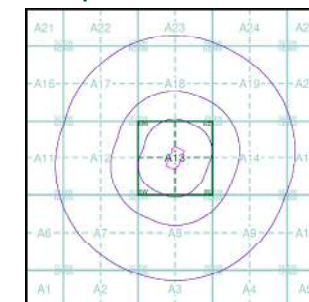
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Agency and Hydrological (Flood)

-  Extreme Flooding from Rivers or Sea without Defences (Zone 2)
-  Flooding from Rivers or Sea without Defences (Zone 3)
-  Area Benefiting from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

Flood Map - Slice A

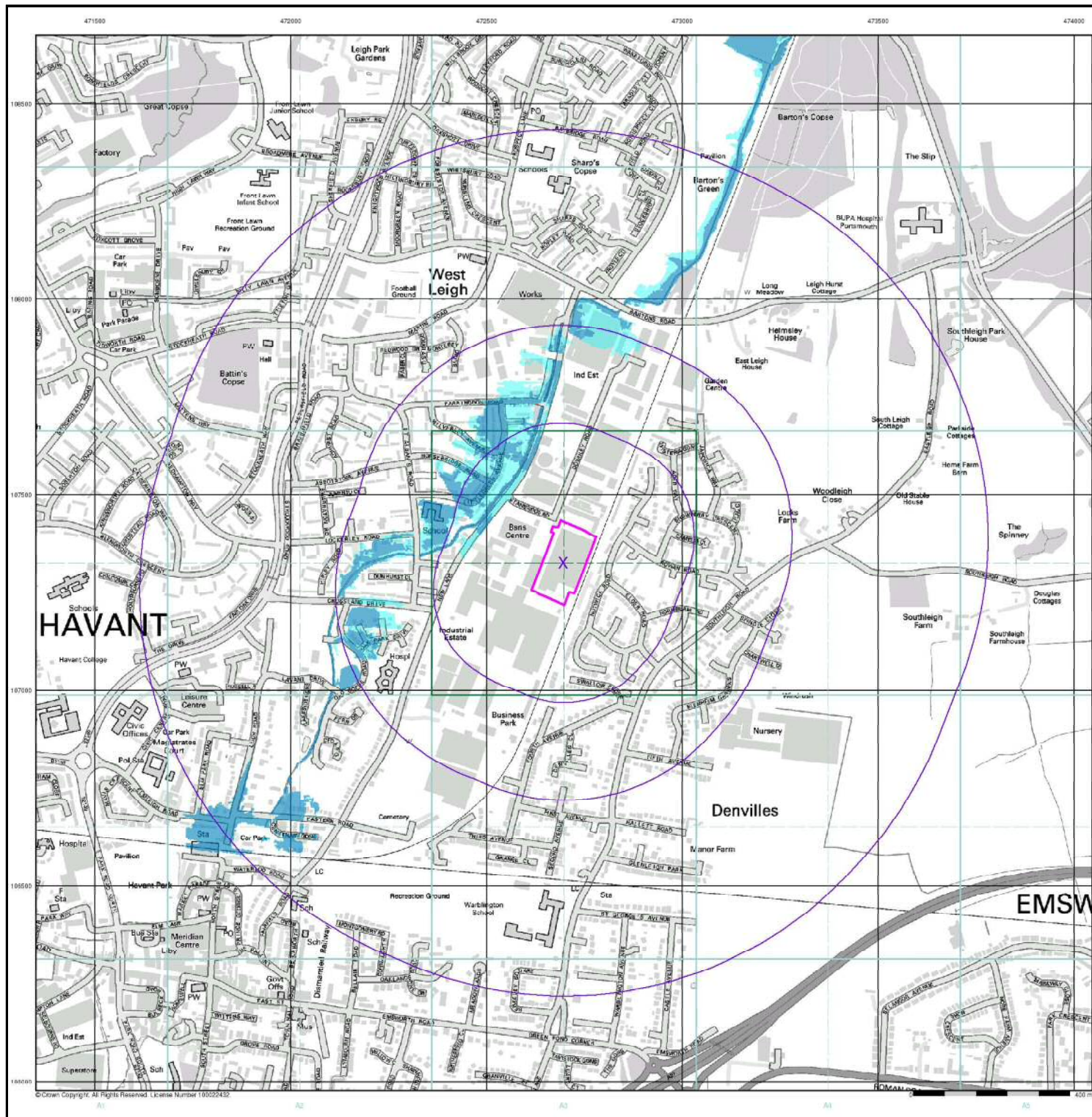


Order Details

Order Number: 62539150_1_1
 Customer Ref: 13-0646.01
 National Grid Reference: 472700, 107330
 Slice: A
 Site Area (Ha): 1.99
 Search Buffer (m): 1000

Site Details

Stanbridge Road, Havant, PO9 2NL



Baynham Meikle Partnership		Page 1
8 Meadow Road Edgbaston, Birmingham B 17 8BU		
Date 05/03/2015 14:16 File	Designed by Narinder.Bangar Checked by	
Micro Drainage		Source Control 2014.1
<u>ICP SUDS Mean Annual Flood</u> Input Return Period (years) 1 SAAR (mm) 700 Urban 0.750 Area (ha) 1.950 Soil 0.400 Region Number Region 7 Results l/s QBAR Rural 6.6 QBAR Urban 18.8 Q1 year 16.0 Q1 year 16.0 Q30 years 32.6 Q100 years 37.9		
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PIEZOMETER VARIABLE HEAD PERMEABILITY TEST

PROJECT NUMBER	13-0646.01
PROJECT TITLE	Standbridge Rd, Havant
BOREHOLE REF	BH5
DATE	22-Dec-14
BOREHOLE DIAMETER (mm)	150
STATIC WATER LEVEL (m bd)	3.39
"L" LENGTH SLOTTED SCREEN (m)	9.00
BASE OF STANDPIPE (m)	10.00
STRATA TYPE	Sand and Gravel
"D" BOREHOLE DIAMETER (m)	1.50E-01
"SCENARIO (a,b,c,d1,d2,e or f - case sensitive)	d2
"F" VALUE	1.35E+01
"A" AREA OF BOREHOLE (m ²)	1.77E-02

[illegible]

BASIC TIME LAG METHOD (after BS5930:1999)

$$K = A / (F \cdot T)$$

T= TIME FOR $H/H_0:0.37$

T= 0.18 (min)

T= 11.09 (sec)

K= 1.18E-04 (m/s)

K= 10.201 (m/d)

GENERAL METHOD (after BS5930:1999)

$$k = \frac{A}{F(t_2 - t_1)} \log_e \frac{H_1}{H_2}$$

t1= 0.12 (min)

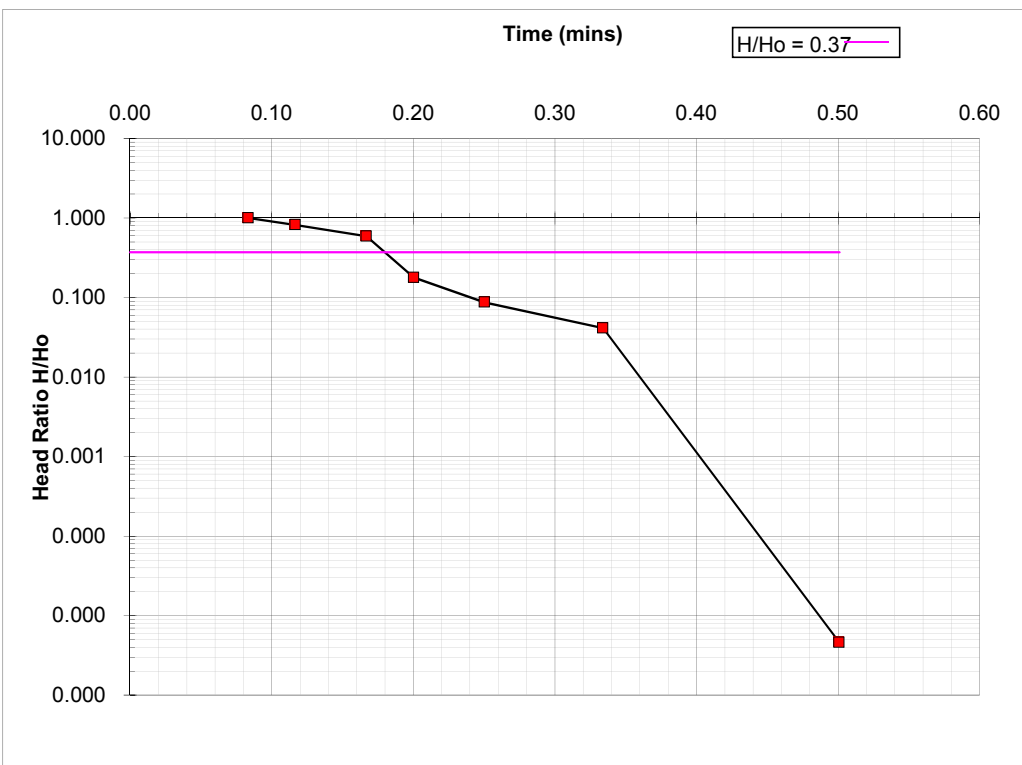
t2= 0.25 (min)

$$H(\text{head})_1 = 1.79 \text{ (m)}$$

$$H(\text{head})_2 = 0.19 \text{ (m)}$$

K= 3.76E-04 (m/s)

K= 32.524 (m/d)



PIEZOMETER VARIABLE HEAD PERMEABILITY TEST

PROJECT NUMBER	13-0646.01
PROJECT TITLE	Standbridge Rd, Havant
BOREHOLE REF	BH5
DATE	22-Dec-14
BOREHOLE DIAMETER (mm)	150
STATIC WATER LEVEL (m bd)	3.39
"L" LENGTH SLOTTED SCREEN (m)	9.00
BASE OF STANDPIPE (m)	10.00
STRATA TYPE	Sand and Gravel
"D" BOREHOLE DIAMETER (m)	1.50E-01
"SCENARIO (a,b,c,d1,d2,e or f - case sensitive)	d2
"F" VALUE	1.35E+01
"A" AREA OF BOREHOLE (m ²)	1.77E-02

TIME (mins)	Hi(mbd)	H(head)	H/Ho
0.03	0.150	3.240	1.000
0.08	0.860	2.530	0.781
0.17	1.230	2.160	0.667
0.20	1.440	1.950	0.602
0.25	1.980	1.410	0.435
0.33	2.300	1.090	0.336
0.43	2.800	0.590	0.182
0.53	3.050	0.340	0.105
0.75	3.130	0.260	0.080
0.92	3.210	0.180	0.056
1.15	3.280	0.110	0.034
1.25	3.280	0.110	0.034
1.45	3.290	0.100	0.031
2.10	3.310	0.080	0.0247
2.45	3.310	0.080	0.025
3.15	3.320	0.070	0.022
3.45	3.340	0.050	0.015
4.00	3.350	0.040	0.012
		3.390	1.046
		3.390	1.046

BASIC TIME LAG METHOD (after BS5930:1999)

$$K = A/(F \cdot T)$$

T = TIME FOR H/Ho:0.37

$$T = 0.31 \text{ (min)}$$

$$T = 18.34 \text{ (sec)}$$

$$K = 7.14E-05 \text{ (m/s)}$$

$$K = 6.168 \text{ (m/d)}$$

GENERAL METHOD (after BS5930:1999)

$$k = \frac{A}{F(t_2 - t_1)} \log_e \frac{H_1}{H_2}$$

$$t_1 = 0.17 \text{ (min)}$$

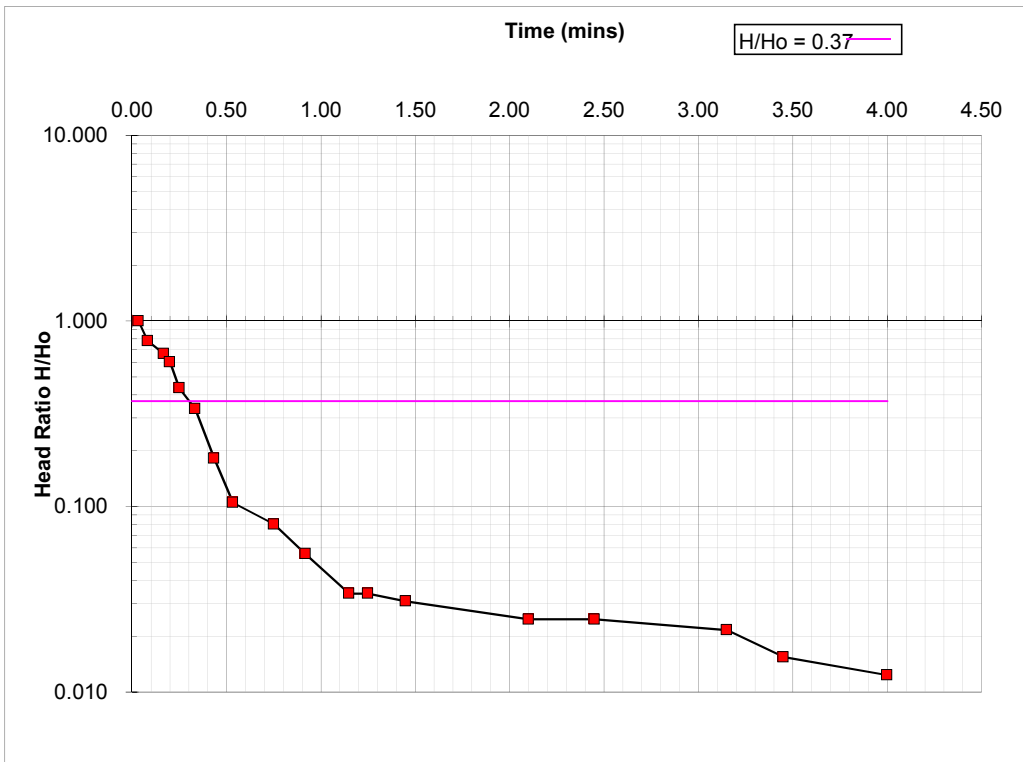
$$t_2 = 0.53 \text{ (min)}$$

$$H(\text{head})_1 = 2.16 \text{ (m)}$$

$$H(\text{head})_2 = 0.34 \text{ (m)}$$

$$K = 1.12E-04 \text{ (m/s)}$$

$$K = 9.682 \text{ (m/d)}$$



PIEZOMETER VARIABLE HEAD PERMEABILITY TEST

PROJECT NUMBER	13-0646.01
PROJECT TITLE	Standbridge Rd, Havant
BOREHOLE REF	BH5
DATE	22-Dec-14
BOREHOLE DIAMETER (mm)	150
STATIC WATER LEVEL (m bd)	3.39
"L" LENGTH SLOTTED SCREEN (m)	9.00
BASE OF STANDPIPE (m)	10.00
STRATA TYPE	Sand and Gravel
"D" BOREHOLE DIAMETER (m)	1.50E-01
"SCENARIO (a,b,c,d1,d2,e or f - case sensitive)	d2
"F" VALUE	1.35E+01
"A" AREA OF BOREHOLE (m ²)	1.77E-02

TIME (mins)	Hi(mbd)	H(head)	H/Ho
0.01	0.210	3.180	1.000
0.17	0.930	2.460	0.774
0.25	1.180	2.210	0.695
0.42	1.960	1.430	0.450
0.58	2.460	0.930	0.292
0.75	2.890	0.500	0.157
1.00	3.130	0.260	0.082
1.25	3.170	0.220	0.069
2.00	3.220	0.170	0.053
3.00	3.260	0.130	0.041
4.00	3.300	0.090	0.028
5.00	3.340	0.050	0.016
		3.390	1.066
		3.390	1.0660
		3.390	1.066
		3.390	1.066
		3.390	1.066
		3.390	1.066
		3.390	1.066
		3.390	1.066

BASIC TIME LAG METHOD (after BS5930:1999)

K= A/(F*T)

T= TIME FOR H/Ho:0.37

T= 0.50 (min)

T= 30.13 (sec)

K= 4.35E-05 (m/s)

K= 3.754 (m/d)

GENERAL METHOD (after BS5930:1999)

$$k = \frac{A}{F(t_2 - t_1)} \log_e \frac{H_1}{H_2}$$

t1= 0.42 (min)

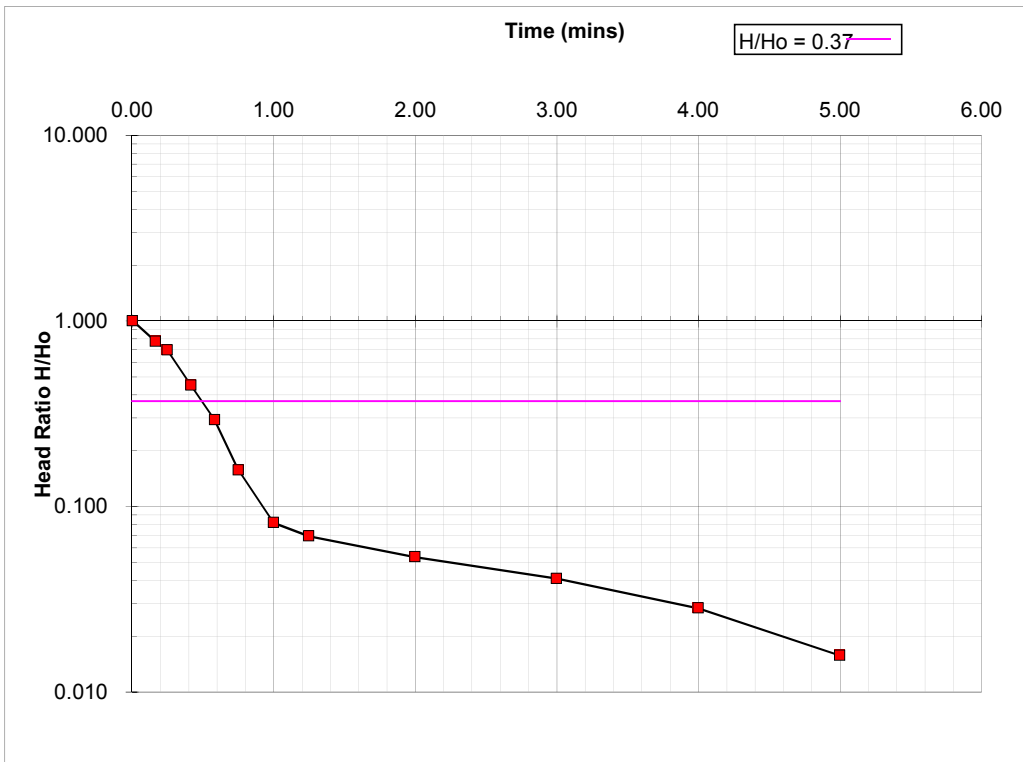
t2= 1.00 (min)

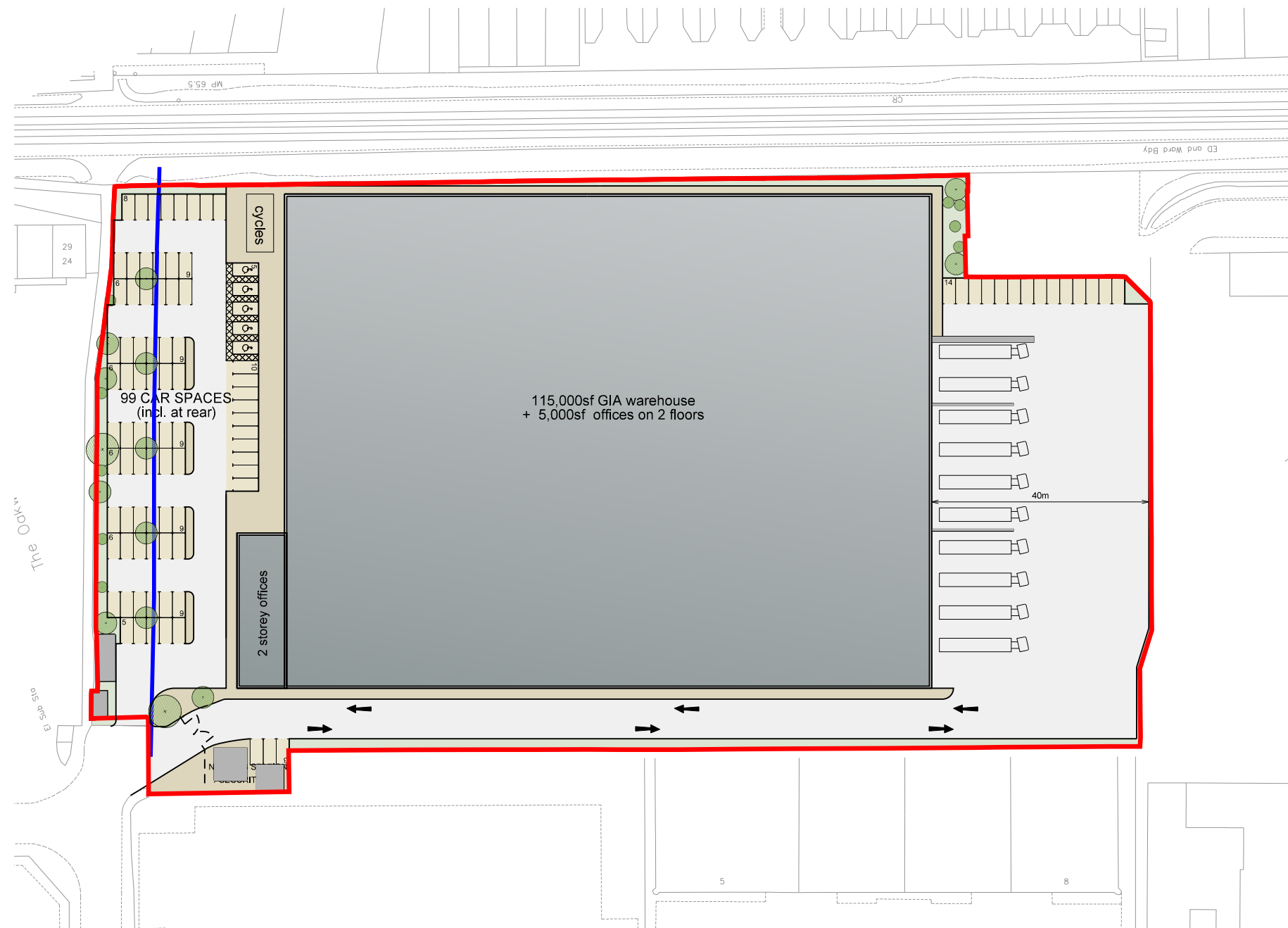
H(head)1= 1.43 (m)

H(head)2= 0.26 (m)

K= 6.41E-05 (m/s)

K= 5.541 (m/d)





PARKING & AREAS

99 cars incl 5 disabled, 47 cycles.
(subject to highways consultant consideration
& agreement of LA)

BUILDING GEA- 11,363 sm- 122,311 sf

BUILDING GIA:

WAREHOUSE: 10683 sm - 115,000sf

OFFICES: 465 sm - 5,000sf

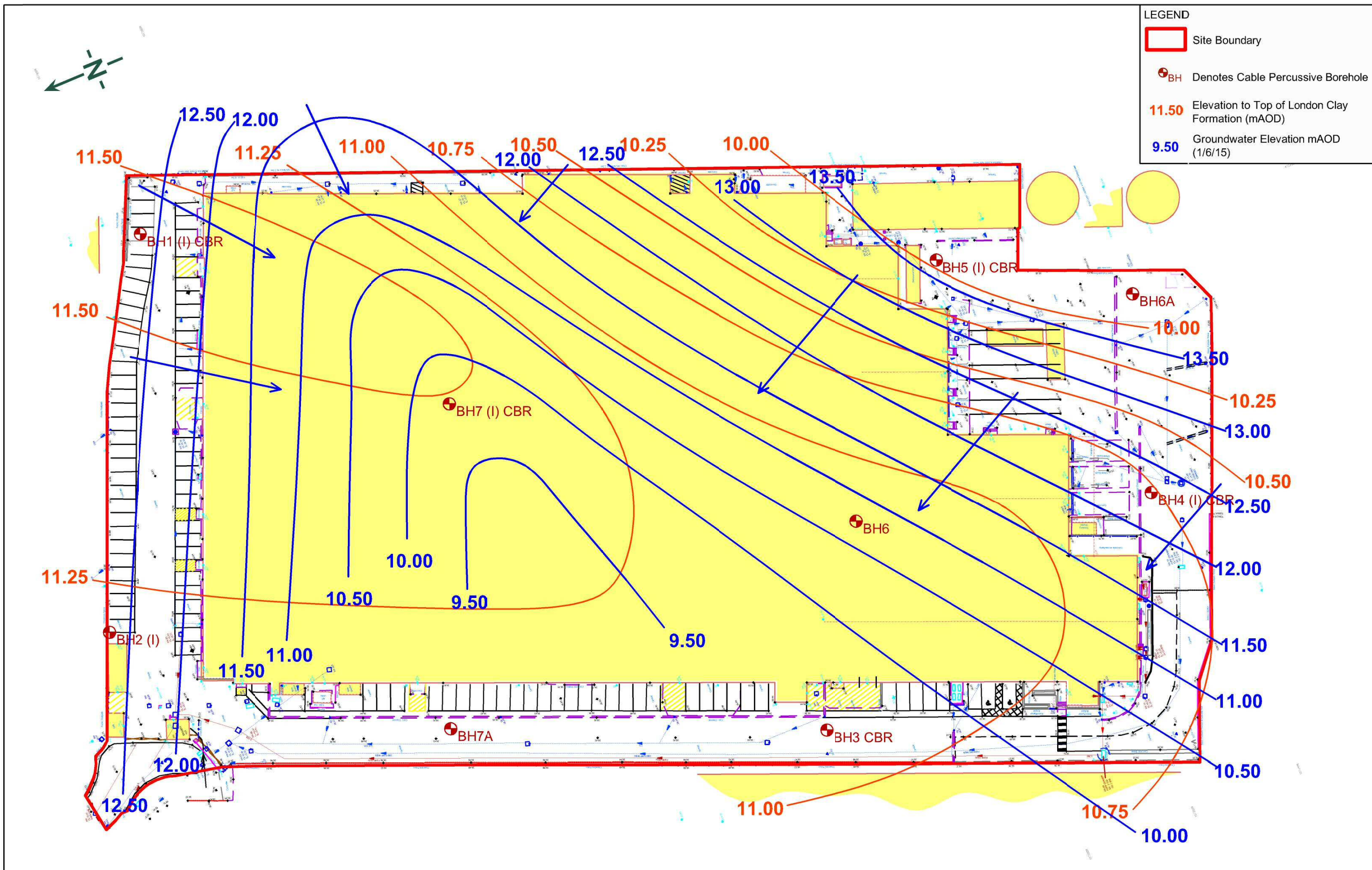
TOTAL: 11,148 sm - 120,000sf

SITE AREA: - 19,745sm 4.88 acres

COVERAGE: 55%

DENSITY: 56%

Subject to Statutory approvals& design development



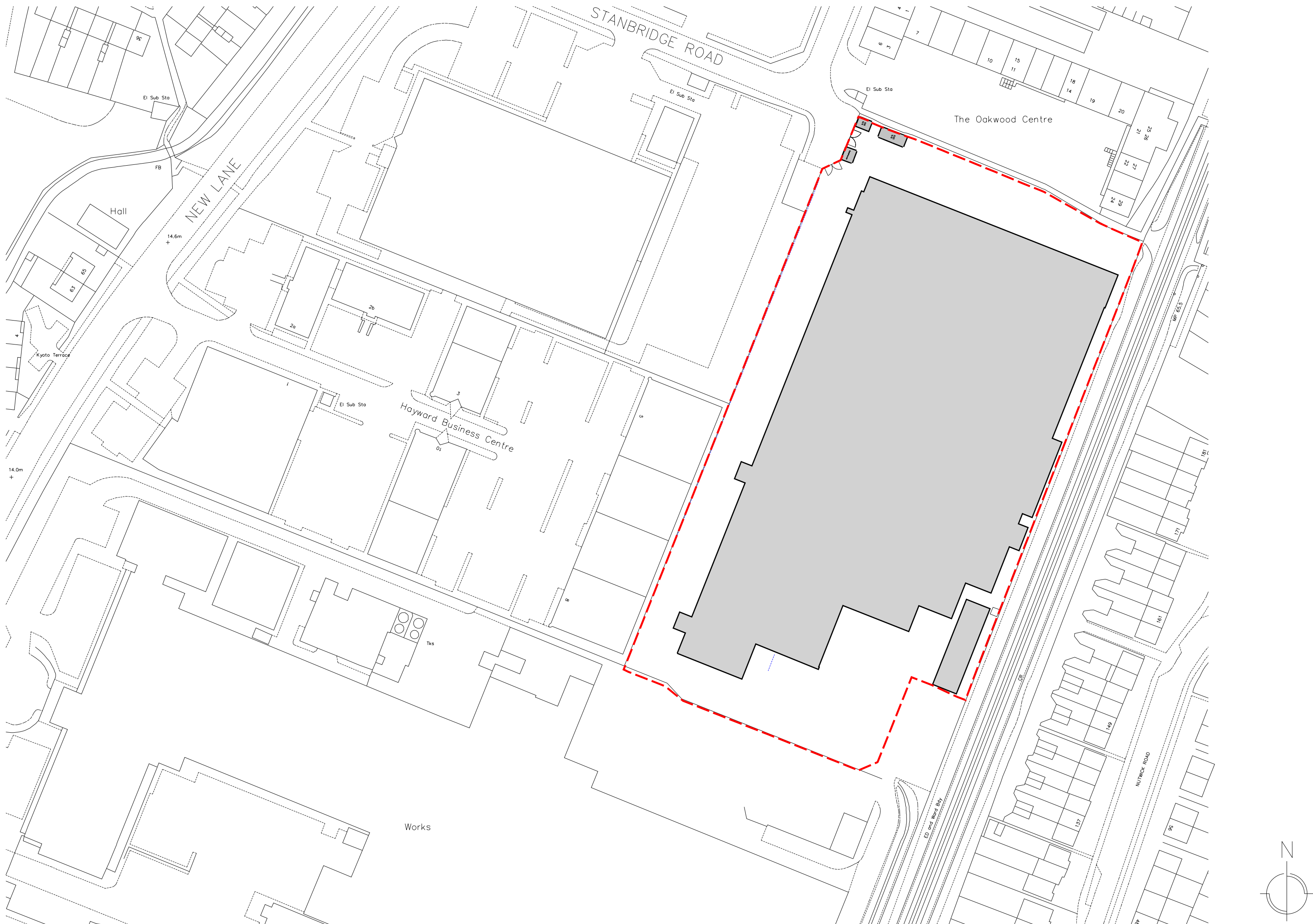
NOTES

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Subject to Statutory Approvals.

Where applicable this drawing is to be read in conjunction with other consultants drawings and with the specification.



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Rev	Description	Chkd	Date
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Job Title

Stanbridge Road
Havant

Drg Title

Site Location Plan

Status

PLANNING

0 50 m

Scale

1:1000 @ A2

Date

26.03.13

Drg No

10887 / TP / 010

Rev

-

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