

The general contractor is responsible for the verification of all dimensions on site and the architect is to be informed of any discrepancy.

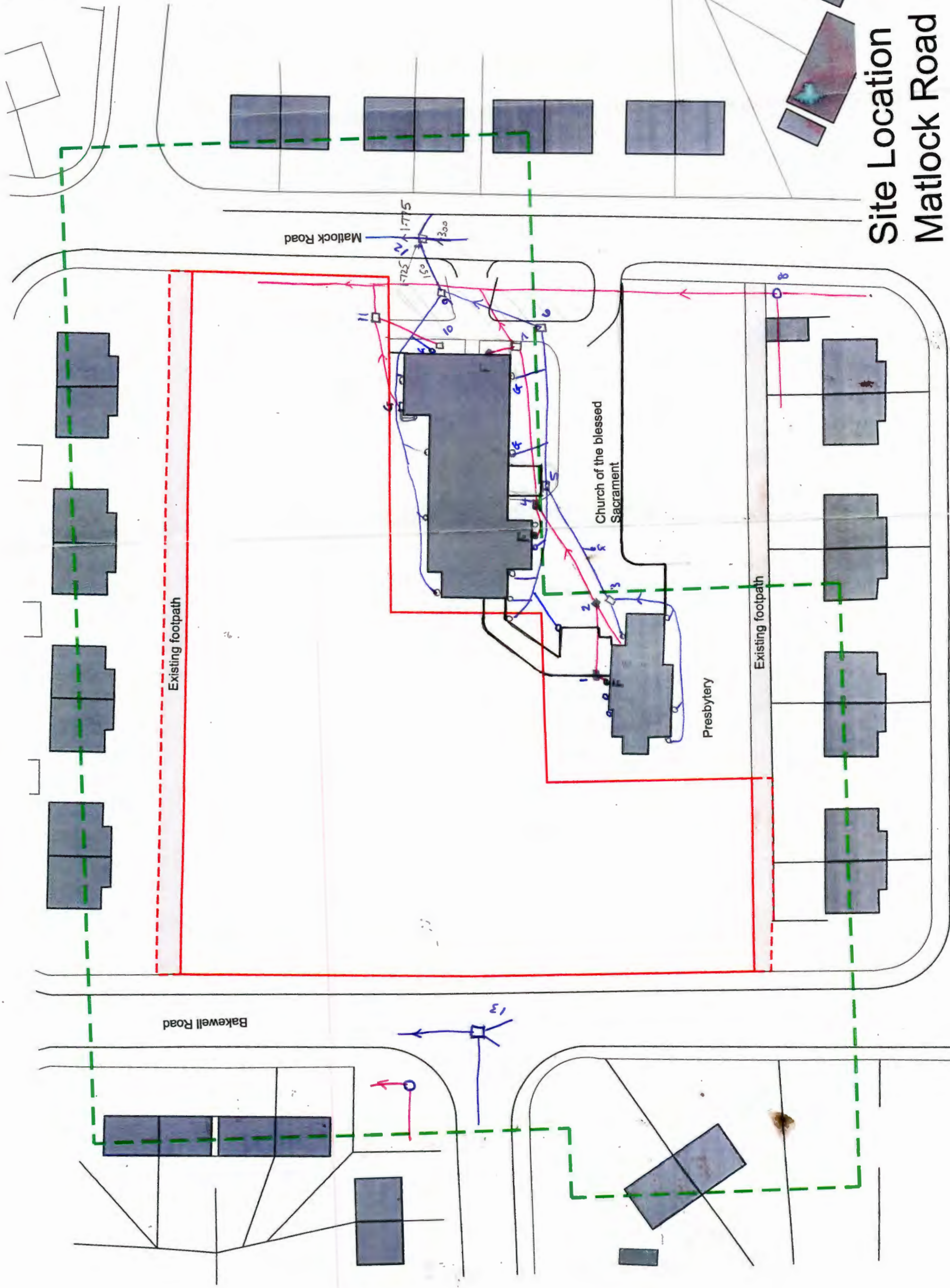
The status of information contained in a computer copy of this drawing shall be limited to that conveyed by the paper copy.

Design Criteria

Site to comply with the following design criteria subject to confirmation of the form of construction and assessment by an external accredited assessor:

- Design and Quality Standards: (DN)
- Code for Sustainable Homes Level: (3)
- BREEAM Rating: (NA)
- Lifetime Homes: (No)
- Building For Life Minimum Score: (12)
- Secured by Design: (Full Buildings & site)

Revisions:	Date	By/Chk
Rev.	Date	By/Chk
Note		



Site Location Matlock Road Barnsley

Drawing Status	preliminary	information	comment	approval	recording built
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐
Scale	1:500 @ A3				
Date	June 2013				
Drawn/Checked	TSURW				
Dwg No	2358.15.001				

Acanthus
WSM
Architects



APPENDIX D

WATER AUTHORITY CONSULTATION

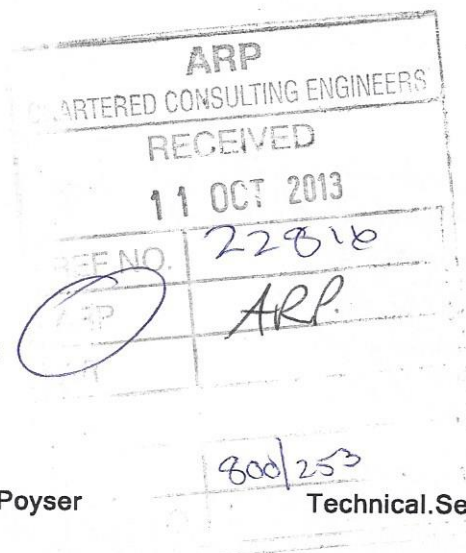


YorkshireWater

ARP Associates
5/6 Northwest House
Northwest Business Park
Servia Hill
LEEDS
LS6 2QH

For the attention of Mr A Poyser

Your Ref: 800/253
Our Ref: P014371



Yorkshire Water Services
Developer Services
Sewerage Technical Team
PO BOX 52
Bradford
BD3 7AY

Tel: 0845 120 8482
Fax: (01274) 372 834

Email:
Technical.Sewerage@yorkshirewater.co.uk

For telephone enquiries ring:

Kashif Khan on (0845)120 8482

8th October 2013

Dear Sir,

Land at Matlock Road, Barnsley - Pre-Planning Sewerage Enquiry - P206950

Thank you for your enquiry received 24th September 2013. Our charge of £67.00 (plus VAT) will be added to your account with us, reference ARP013. You will receive an invoice for your account in due course. Please find enclosed a complimentary extract from the Statutory Sewer Map which indicates the recorded position of the public sewers. The following comments reflect our view, with regard to the public sewer network only, based on a 'desk top' study of the site:

There is a 225 mm diameter public sewer recorded crossing the site. In this instance, building-over may take place under the control of Part H4 Building Regulations 2000.

Development of the site should take place with separate systems for foul and surface water drainage. The separate system should extend to the public sewer.

Foul water domestic waste should discharge to the 225 mm diameter public combined sewer recorded crossing/within the site.

The developer's attention is drawn to Requirement H3 of the Building Regulations 2000. This establishes a preferred hierarchy for surface water disposal. Consideration should firstly be given to discharge to soakaway, infiltration system and watercourse in that priority order.

Sustainable Drainage Systems (SUDS), for example the use of soakaways and/or permeable hardstanding etc, may be a suitable solution for surface water disposal appropriate in this situation. You are advised to seek comments on the suitability of SUDS in this instance from the appropriate authorities.

Where appropriate, soakaways, swales and infiltration trenches (SUDS) may be adopted as part of the public sewer network. Further information may be seen in the DEFRA publication 'Interim Code of Practice for Sustainable Drainage Systems' (ISBN 0-86017-904-4). If the developer is considering adoption of SUDS they should contact our Developer Services Team on 0845 120 84 82.

As a last resort and subject to providing evidence as to why the other methods of surface water disposal have been discounted, curtilage surface water may discharge to the 375 mm diameter public surface water sewer recorded in Matlock Road, at a point adjacent to the site.

The surface water discharge from the site to be restricted to not greater than 5 (five) litres/second.

Please note further restrictions on surface water disposal from the site may be imposed by other parties. You are strongly advised to seek advice/comments from the Environment Agency/Land Drainage Authority, with regard to surface water disposal from the site.

Prospectively adoptable sewers and pumping stations must be designed and constructed in accordance with the WRc publication "Sewers for Adoption - a design and construction guide for developers" 6th Edition as supplemented by Yorkshire Water's requirements, pursuant to an agreement under Section 104 of the Water Industry Act 1991. An application to enter into a Section 104 agreement must be made in writing prior to any works commencing on site. Please contact our Developer Services Team (telephone 0845 120 84 82) for further information.

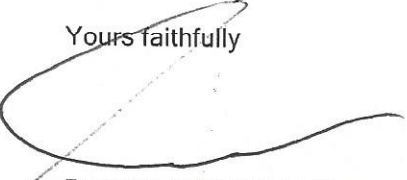
The public sewer network is for domestic sewage purposes. This generally means foul water for domestic purposes and, where a suitable surface water or combined sewer is available, surface water from the roofs of buildings together with surface water from paved areas of land appurtenant to those buildings. Land and highway drainage have no right of connection to the public sewer network. No land drainage to be connected/discharged to public sewer.

As a last resort, highway drainage may be accepted under certain circumstances. If it can be demonstrated, through satisfactory evidence, that SUDS are not a viable option, there are no watercourses or highway drains available and if capacity is available within the public sewer network, highway drainage discharges to the public sewer network may be permitted. In this event, the developer may be required to enter into a formal agreement with Yorkshire Water Services under Section 115 Water Industry Act 1991 to discharge non-domestic flows into the public sewer network.

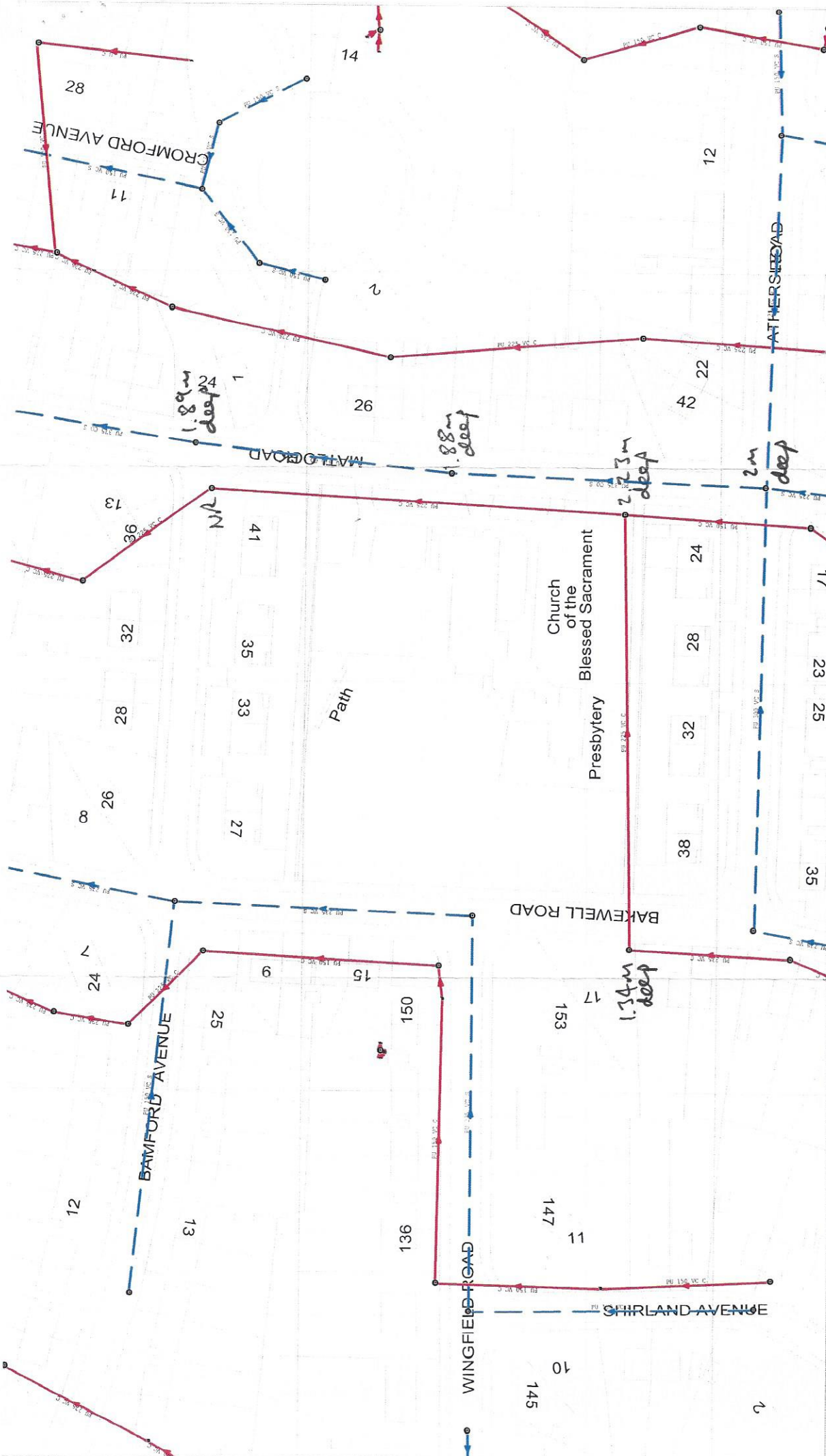
Any new connection to an existing public sewer will require the prior approval of Yorkshire Water. You may obtain an application form from our website (www.yorkshirewater.com) or by telephoning 0845 120 84 82.

All the above comments are based upon the information and records available at the present time. The information contained in this letter together with that shown on any extract from the Statutory Sewer Map that may be enclosed is believed to be correct and is supplied in good faith. Please note that capacity in the public sewer network is not reserved for specific future development. It is used up on a 'first come, first served' basis. You should visit the site and establish the line and level of any public sewers affecting your proposals before the commencement of any design work.

Yours faithfully



Developer Services Team



435314 : 408774

Map Name : SE3508NN

Yorkshire Water,
PO Box 500,
Halifax Road,
Bradford BD6 2LZ
Contact Name :
K KHAN
Contact Tel :

Originator: K KHAN, New Development - Waste Water,

UPN: Undefined

Partial Key

Foul Sewer = F
Combined Sewer = C
Surface Water Sewer = SW
Trade Sewer = TD
Partially Separate = PS

Date Req : 08/10/2013, 14:58:52

Source : Sewer Network Enquiry

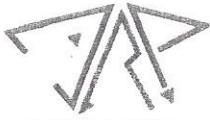
Date Gen : 08/10/2013, 14:58:54

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This plan is furnished as a general guide only and no warranty as to its accuracy is given or implied. This plan must not be relied upon in the design or construction of any works made in the vicinity of public sewers. No house or property connections are shown.

APPENDIX E

EXISTING IMPERMEABLE AREA AND DISCHARGE RATE



ARP ASSOCIATES
AND GEOTECHNICAL LTD
CHARTERED CONSULTING ENGINEERS

5/6 Northwest Business Park
Servia Hill
Leeds
LS6 2QH
Tel: 0113 245 8498
Fax: 0113 244 3864
E-Mail: leeds@arpassociates.co.uk

Client: Equity Housing Group	Project No. 800/253	Sheet. 1 of
Project: Matlock Road, Barnsley	Calc By. WMW	Date. Oct 13
Element: Existing Impermeable Area + Discharge	Chkd By.	Date.

Existing Impermeable Area Calculated From The Layout That Follows

$$(10.5 \times 32) + (8.5 \times 30) + (7 \times 27) + (4 \times 6) + (6.5 \times 23.5) + \\ (3.5 \times 32.5) + (3.5 \times 30.5) + (2 \times 23) + (4.5 \times 19.5) + (3 \times 16) + \\ (9 \times 8)$$

$$\text{Total Impermeable Area} = 1431.2 \text{ m}^2 \\ = 0.143 \text{ ha.}$$

Existing Discharge Rate

In assessing the run-off into the existing public sewers the Industry Standard Rational Method is used and applied to only impermeable drained surfaces. The Rational Method is in the form of $Q = 2.78 C i A$

The existing run-off is, therefore, calculated as follows:-

$$Q = 2.78 \times 50 \text{ mm/hr} \times 0.143 \text{ ha} \\ = 19.91/\text{s}$$

A flow reduction of 30% on the existing site run-off will be provided. Therefore, $19.91/\text{s} \times 0.7 = \underline{\underline{13.91/\text{s}}}$



/// = Indicates Impermeable Area

Church of the blessed Sacrament

Presbytery

Existing footpath

1:500 SCALE BAR



S N B

W100

APPENDIX F

PROPOSED DEVELOPMENT PLAN

APPENDIX G

INDICATIVE SURFACE WATER CALCULATIONS

ARP Associates		Page 1
Northwest House Servia Hill Leeds LS6 2QH	Matlock Road, Barnsley 800/253	
Date Oct 2013 File 800-253 30yr cal...	Designed by W.Walker Checked by	
Elstree Computing Ltd	Source Control 2013.1.1	

Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	100.851	0.851	12.7	35.6	0 K
30 min Summer	101.001	1.001	12.8	41.8	0 K
60 min Summer	101.055	1.055	13.0	44.1	0 K
120 min Summer	100.995	0.995	12.7	41.6	0 K
180 min Summer	100.892	0.892	12.7	37.3	0 K
240 min Summer	100.781	0.781	12.7	32.6	0 K
360 min Summer	100.563	0.563	12.7	23.5	0 K
480 min Summer	100.388	0.388	12.7	16.2	0 K
600 min Summer	100.288	0.288	12.6	12.0	0 K
720 min Summer	100.235	0.235	12.0	9.8	0 K
960 min Summer	100.186	0.186	10.3	7.8	0 K
1440 min Summer	100.143	0.143	7.8	6.0	0 K
2160 min Summer	100.113	0.113	5.8	4.7	0 K
2880 min Summer	100.096	0.096	4.6	4.0	0 K
4320 min Summer	100.078	0.078	3.4	3.2	0 K
5760 min Summer	100.067	0.067	2.7	2.8	0 K
7200 min Summer	100.060	0.060	2.3	2.5	0 K
8640 min Summer	100.055	0.055	2.0	2.3	0 K
10080 min Summer	100.051	0.051	1.8	2.1	0 K
15 min Winter	100.968	0.968	12.7	40.5	0 K
30 min Winter	101.149	1.149	13.5	48.0	0 K
60 min Winter	101.201	1.201	13.8	50.2	0 K
120 min Winter	101.093	1.093	13.2	45.7	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Summer	69.299	0.0	44.2	16	
30 min Summer	45.987	0.0	58.6	28	
60 min Summer	29.238	0.0	74.6	44	
120 min Summer	18.051	0.0	92.0	80	
180 min Summer	13.465	0.0	103.0	114	
240 min Summer	10.884	0.0	111.0	146	
360 min Summer	8.039	0.0	123.0	210	
480 min Summer	6.482	0.0	132.2	264	
600 min Summer	5.481	0.0	139.7	318	
720 min Summer	4.777	0.0	146.2	374	
960 min Summer	3.844	0.0	156.8	492	
1440 min Summer	2.826	0.0	172.9	734	
2160 min Summer	2.074	0.0	190.4	1096	
2880 min Summer	1.664	0.0	203.7	1468	
4320 min Summer	1.219	0.0	223.8	2160	
5760 min Summer	0.977	0.0	239.0	2872	
7200 min Summer	0.822	0.0	251.5	3672	
8640 min Summer	0.714	0.0	262.1	4384	
10080 min Summer	0.634	0.0	271.6	5024	
15 min Winter	69.299	0.0	49.5	16	
30 min Winter	45.987	0.0	65.6	30	
60 min Winter	29.238	0.0	83.5	48	
120 min Winter	18.051	0.0	103.1	86	

ARP Associates		Page 2
Northwest House Servia Hill Leeds LS6 2QH	Matlock Road, Barnsley 800/253	
Date Oct 2013 File 800-253 30yr cal...	Designed by W.Walker Checked by	
Elstree Computing Ltd	Source Control 2013.1.1	

Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
180 min Winter	100.928	0.928	12.7	38.8	0 K
240 min Winter	100.753	0.753	12.7	31.5	0 K
360 min Winter	100.405	0.405	12.7	16.9	0 K
480 min Winter	100.246	0.246	12.2	10.3	0 K
600 min Winter	100.197	0.197	10.8	8.2	0 K
720 min Winter	100.171	0.171	9.5	7.1	0 K
960 min Winter	100.141	0.141	7.7	5.9	0 K
1440 min Winter	100.111	0.111	5.7	4.7	0 K
2160 min Winter	100.089	0.089	4.2	3.7	0 K
2880 min Winter	100.077	0.077	3.4	3.2	0 K
4320 min Winter	100.063	0.063	2.5	2.6	0 K
5760 min Winter	100.055	0.055	2.0	2.3	0 K
7200 min Winter	100.049	0.049	1.7	2.1	0 K
8640 min Winter	100.045	0.045	1.5	1.9	0 K
10080 min Winter	100.042	0.042	1.3	1.7	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
180 min Winter	13.465	0.0	115.3	122	
240 min Winter	10.884	0.0	124.3	158	
360 min Winter	8.039	0.0	137.8	214	
480 min Winter	6.482	0.0	148.1	260	
600 min Winter	5.481	0.0	156.5	314	
720 min Winter	4.777	0.0	163.7	372	
960 min Winter	3.844	0.0	175.6	492	
1440 min Winter	2.826	0.0	193.7	734	
2160 min Winter	2.074	0.0	213.2	1100	
2880 min Winter	1.664	0.0	228.1	1456	
4320 min Winter	1.219	0.0	250.6	2176	
5760 min Winter	0.977	0.0	267.7	2936	
7200 min Winter	0.822	0.0	281.6	3568	
8640 min Winter	0.714	0.0	293.6	4400	
10080 min Winter	0.634	0.0	304.2	4952	

ARP Associates		Page 3
Northwest House Servia Hill Leeds LS6 2QH	Matlock Road, Barnsley 800/253	
Date Oct 2013 File 800-253 30yr cal...	Designed by W.Walker Checked by	
Elstree Computing Ltd	Source Control 2013.1.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.357	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.340

Time (mins)	Area
From:	To: (ha)

0	4 0.340
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ARP Associates		Page 4
Northwest House Servia Hill Leeds LS6 2QH	Matlock Road, Barnsley 800/253	
Date Oct 2013 File 800-253 30yr cal...	Designed by W.Walker Checked by	
Elstree Computing Ltd	Source Control 2013.1.1	

Model Details

Storage is Online Cover Level (m) 103.000

Tank or Pond Structure

Invert Level (m) 100.000

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	41.8	0.700	41.8	1.400	41.8	2.100	41.8
0.100	41.8	0.800	41.8	1.500	41.8	2.200	41.8
0.200	41.8	0.900	41.8	1.600	41.8	2.300	41.8
0.300	41.8	1.000	41.8	1.700	41.8	2.400	41.8
0.400	41.8	1.100	41.8	1.800	41.8	2.500	41.8
0.500	41.8	1.200	41.8	1.900	41.8		
0.600	41.8	1.300	41.8	2.000	41.8		

Hydro-Brake® Outflow Control

Design Head (m) 1.200 Hydro-Brake® Type Md6 SW Only Invert Level (m) 100.000
Design Flow (l/s) 13.9 Diameter (mm) 148

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.9	1.200	13.8	3.000	21.6	7.000	33.1
0.200	10.9	1.400	14.8	3.500	23.4	7.500	34.2
0.300	12.7	1.600	15.8	4.000	25.0	8.000	35.3
0.400	12.5	1.800	16.8	4.500	26.5	8.500	36.4
0.500	12.0	2.000	17.7	5.000	27.9	9.000	37.5
0.600	11.7	2.200	18.5	5.500	29.3	9.500	38.5
0.800	11.9	2.400	19.4	6.000	30.6		
1.000	12.8	2.600	20.2	6.500	31.9		

ARP Associates			Page 1		
Northwest House Servia Hill Leeds LS6 2QH		Matlock Road, Barnsley 800/253			
Date Oct 2013 File 800-253 100yr ca...		Designed by W.Walker Checked by			
Elstree Computing Ltd		Source Control 2013.1.1			
Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	100.722	0.722	12.7	65.7	0 K
30 min Summer	100.910	0.910	12.7	82.8	0 K
60 min Summer	101.026	1.026	12.9	93.3	0 K
120 min Summer	101.052	1.052	13.0	95.7	0 K
180 min Summer	101.016	1.016	12.8	92.5	0 K
240 min Summer	100.961	0.961	12.7	87.5	0 K
360 min Summer	100.844	0.844	12.7	76.8	0 K
480 min Summer	100.731	0.731	12.7	66.5	0 K
600 min Summer	100.621	0.621	12.7	56.5	0 K
720 min Summer	100.516	0.516	12.7	46.9	0 K
960 min Summer	100.356	0.356	12.7	32.4	0 K
1440 min Summer	100.223	0.223	11.7	20.3	0 K
2160 min Summer	100.165	0.165	9.1	15.0	0 K
2880 min Summer	100.137	0.137	7.4	12.5	0 K
4320 min Summer	100.108	0.108	5.4	9.8	0 K
5760 min Summer	100.092	0.092	4.3	8.3	0 K
7200 min Summer	100.081	0.081	3.6	7.4	0 K
8640 min Summer	100.074	0.074	3.1	6.7	0 K
10080 min Summer	100.068	0.068	2.8	6.2	0 K
15 min Winter	100.817	0.817	12.7	74.3	0 K
30 min Winter	101.035	1.035	12.9	94.2	0 K
60 min Winter	101.179	1.179	13.7	107.3	0 K
120 min Winter	101.199	1.199	13.8	109.1	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Summer	116.536	0.0	74.2	17	
30 min Summer	78.082	0.0	99.5	31	
60 min Summer	49.937	0.0	127.3	56	
120 min Summer	30.853	0.0	157.3	88	
180 min Summer	22.945	0.0	175.5	124	
240 min Summer	18.469	0.0	188.3	158	
360 min Summer	13.550	0.0	207.3	226	
480 min Summer	10.876	0.0	221.8	292	
600 min Summer	9.164	0.0	233.6	356	
720 min Summer	7.962	0.0	243.6	414	
960 min Summer	6.373	0.0	260.0	522	
1440 min Summer	4.648	0.0	284.4	748	
2160 min Summer	3.383	0.0	310.5	1104	
2880 min Summer	2.697	0.0	330.0	1468	
4320 min Summer	1.956	0.0	359.1	2200	
5760 min Summer	1.555	0.0	380.7	2904	
7200 min Summer	1.301	0.0	398.1	3664	
8640 min Summer	1.125	0.0	413.0	4384	
10080 min Summer	0.995	0.0	426.2	5136	
15 min Winter	116.536	0.0	83.1	17	
30 min Winter	78.082	0.0	111.4	31	
60 min Winter	49.937	0.0	142.6	58	
120 min Winter	30.853	0.0	176.2	94	
©1982-2013 Micro Drainage Ltd					

ARP Associates		Page 2
Northwest House Servia Hill Leeds LS6 2QH	Matlock Road, Barnsley 800/253	
Date Oct 2013 File 800-253 100yr ca...	Designed by W.Walker Checked by	
Elstree Computing Ltd	Source Control 2013.1.1	

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
180 min Winter	101.143	1.143	13.5	104.0	0 K
240 min Winter	101.060	1.060	13.1	96.4	0 K
360 min Winter	100.881	0.881	12.7	80.2	0 K
480 min Winter	100.704	0.704	12.7	64.0	0 K
600 min Winter	100.525	0.525	12.7	47.8	0 K
720 min Winter	100.376	0.376	12.7	34.2	0 K
960 min Winter	100.237	0.237	12.1	21.5	0 K
1440 min Winter	100.166	0.166	9.2	15.1	0 K
2160 min Winter	100.127	0.127	6.7	11.6	0 K
2880 min Winter	100.108	0.108	5.4	9.8	0 K
4320 min Winter	100.086	0.086	3.9	7.8	0 K
5760 min Winter	100.074	0.074	3.1	6.7	0 K
7200 min Winter	100.066	0.066	2.6	6.0	0 K
8640 min Winter	100.060	0.060	2.3	5.4	0 K
10080 min Winter	100.055	0.055	2.0	5.0	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
180 min Winter	22.945	0.0	196.6	132	
240 min Winter	18.469	0.0	211.0	170	
360 min Winter	13.550	0.0	232.2	244	
480 min Winter	10.876	0.0	248.5	314	
600 min Winter	9.164	0.0	261.7	374	
720 min Winter	7.962	0.0	272.8	420	
960 min Winter	6.373	0.0	291.2	518	
1440 min Winter	4.648	0.0	318.5	744	
2160 min Winter	3.383	0.0	347.8	1104	
2880 min Winter	2.697	0.0	369.7	1468	
4320 min Winter	1.956	0.0	402.2	2204	
5760 min Winter	1.555	0.0	426.4	2880	
7200 min Winter	1.301	0.0	445.9	3584	
8640 min Winter	1.125	0.0	462.5	4336	
10080 min Winter	0.995	0.0	477.4	5104	

ARP Associates		Page 3
Northwest House Servia Hill Leeds LS6 2QH	Matlock Road, Barnsley 800/253	
Date Oct 2013 File 800-253 100yr ca...	Designed by W.Walker Checked by	
Elstree Computing Ltd	Source Control 2013.1.1	

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.357	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.340

Time (mins)	Area
From:	To: (ha)

0	4 0.340
---	---------

ARP Associates		Page 4
Northwest House Servia Hill Leeds LS6 2QH	Matlock Road, Barnsley 800/253	
Date Oct 2013 File 800-253 100yr ca...	Designed by W.Walker Checked by	
Elstree Computing Ltd	Source Control 2013.1.1	

Model Details

Storage is Online Cover Level (m) 103.000

Tank or Pond Structure

Invert Level (m) 100.000

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	91.0	0.700	91.0	1.400	91.0	2.100	91.0
0.100	91.0	0.800	91.0	1.500	91.0	2.200	91.0
0.200	91.0	0.900	91.0	1.600	91.0	2.300	91.0
0.300	91.0	1.000	91.0	1.700	91.0	2.400	91.0
0.400	91.0	1.100	91.0	1.800	91.0	2.500	91.0
0.500	91.0	1.200	91.0	1.900	91.0		
0.600	91.0	1.300	91.0	2.000	91.0		

Hydro-Brake® Outflow Control

Design Head (m) 1.200 Hydro-Brake® Type Md6 SW Only Invert Level (m) 100.000
Design Flow (l/s) 13.9 Diameter (mm) 148

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.9	1.200	13.8	3.000	21.6	7.000	33.1
0.200	10.9	1.400	14.8	3.500	23.4	7.500	34.2
0.300	12.7	1.600	15.8	4.000	25.0	8.000	35.3
0.400	12.5	1.800	16.8	4.500	26.5	8.500	36.4
0.500	12.0	2.000	17.7	5.000	27.9	9.000	37.5
0.600	11.7	2.200	18.5	5.500	29.3	9.500	38.5
0.800	11.9	2.400	19.4	6.000	30.6		
1.000	12.8	2.600	20.2	6.500	31.9		