Appendix G : Site Investigation Report

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Ground Investigations Ireland

Whitestown Way Tallaght

DBFL

Ground Investigation Report

April 2026

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APPENDICES

1.0 Preamble

On the instructions of DBFL Consulting Engineers, a site investigation was carried out by Ground Investigations Ireland Ltd., between January and March 2026 at the site of the proposed residential development in Tallaght Co. Dublin.

2.0 Overview

2.1. Background

It is proposed to construct a new residential development with associated services, access roads and car parking at the proposed site. The site is currently greenfield however a portion in one corner of the site is occupied by a temporary car park. The proposed construction is envisaged to consist of conventional foundations and pavement make up with some local excavations for services and plant.

2.2. Purpose and Scope

The purpose of the site investigation was to investigate subsurface conditions utilising a variety of investigative methods in accordance with the project specification. The scope of the work undertaken for this project included the following:

- Visit project site to observe existing conditions
- Carry out 2 No. Trial Pits to a maximum depth of 2.00m BGL
- Carry out 21 No. Slit Trenches to determine existing underground services
- Carry out 2 No. Soakaways in the selected trial pits to determine a soil infiltration value to BRE digest 365
- Carry out 8 No. Window Sample Boreholes to recover soil samples
- Carry out 4 No. Plate Bearing to calculate the constrained modulus and equivalent CBR value
- Carry out 6 No. Cable Percussion boreholes to a maximum depth of 12.00m BGL
- Installation of 4 No. Groundwater monitoring wells
- Geotechnical & Environmental Laboratory testing
- Report with recommendations

3.0 Subsurface Exploration

3.1. General

During the ground investigation a programme of intrusive investigation specified by the Consulting Engineer was undertaken to determine the sub surface conditions at the proposed site. Regular sampling and in-situ

testing was undertaken in the exploratory holes to facilitate the geotechnical descriptions and to enable laboratory testing to be carried out on the soil samples recovered during excavation and drilling.
The procedures used in this site investigation are in accordance with Eurocode 7 Part 2: Ground Investigation and testing (ISEN 1997 – 2:2007) and B.S. 5930:2015.

3.2. Trial Pits

The trial pits were excavated using a JCB 3CX excavator at the locations shown in the exploratory hole location plan in Appendix 1. The locations were checked using a CAT scan to minimise the potential for encountering services during the excavation. The trial pits were sampled, logged and photographed by an Engineering Geologist prior to backfilling with arisings. Notes were made of any services, inclusions, pit stability, groundwater encountered and the characteristics of the strata encountered and are presented on the trial pit logs which are provided in Appendix 2 of this Report.

3.3. Slit Trenching

The slit trenches were excavated using either a JCB 3CX or 7T tracked excavator at the locations shown in the exploratory hole location plan in Appendix 1. The locations were checked using a CAT scan to minimise the potential for encountering services during the excavation. The soil was slowly stripped using a spotter on the trench to alert the driver if any services were seen, to avoid damage to any underlying services. The slit trenches were sampled, logged and photographed by an Engineering Geologist prior to backfilling with arisings. Notes were made of any services, inclusions, pit stability, groundwater encountered and the characteristics of the strata encountered and are presented on the slit trench records which are provided in Appendix 3 of this Report.

3.4. Soakaway Testing

The soakaway testing was carried out in selected trial pits at the locations shown in the exploratory hole location plan in Appendix 1. These pits were carefully excavated and filled with water to assess the infiltration characteristics of the proposed site. The pits were allowed to drain and the drop in water level was recorded over time as required by BRE Digest 365. The pits were logged prior to completing the soakaway test and were backfilled with arising’s upon completion. The soakaway test results are provided in Appendix 4 of this Report.

3.5. Window Sampling

The window sampling was carried out at the locations shown in the location plan in Appendix 1 using a Tecopsa SPT Tec 10 percussion drilling rig. The window sampling consists of a 1m long steel tube with a cutting edge and an internal plastic liner which is mechanically driven into the ground utilising a 50kg weight falling a height of 500mm. Upon completion of the 1m sample, the tube is withdrawn and the plastic liner removed and sealed for logging and sub sampling by an Engineering Geologist. The tube is replaced in the borehole and a subsequent 1m sample can be recovered. Occasionally outer casing or a reduced diameter

tube is utilised to enable the window sample to progress in difficult drilling conditions. Geotechnical or environmental soil samples can be recovered from each of the liners following logging.
The window sample records are provided in Appendix 5 of this Report.

3.6. Insitu Plate Bearing Test

The plate bearing tests were carried out using a 457mm diameter plate at the locations shown on the site plan in Appendix 1. The plate was loaded in increments using a hydraulic jack and an excavator to provide a reaction and the displacement was monitored in accordance with BS1377 Part 9 using independently mounted digital strain gauges. The constrained modulus and equivalent CBR are calculated in accordance with HD29/75 and are provided on the test reports in Appendix 6 of this Report.

3.7. Cable Percussion Boreholes

The Cable Percussion Boreholes were drilled using a Dando 2000 drilling rig with regular in-situ testing and sampling undertaken to facilitate the production of geotechnical logs and laboratory testing.
The standard method of boring in soil for site investigation is known as the Cable Percussion method. It consists of using a Shell in non cohesive soils and a clay cutter in cohesive soils, both operated on a wire cable. Very hard soils, boulders and other hard obstructions are broken up by chiselling and the fragments removed with the Shell. Where ground conditions made it necessary, the borehole was lined with 200mm diameter steel casing. While the use of the Cable Percussion method of boring gives the maximum data on soil conditions, some mixing of laminated soil is inevitable. For this reason, thin lenses of granular material may not be noticed. Disturbed samples were taken from the boring tools at suitable depths, so that there is a representative sample at the top of each change in stratum and thereafter at regular intervals down the borehole until the next stratum was encountered. The disturbed samples were then sealed and sent to the laboratory where they were visually examined to confirm the description of the relevant strata.
Standard Penetration Tests were carried out in the boreholes. The results of these tests, together with the depths at which the tests were taken are shown on the accompanying borehole records. The test consists of a thick wall sampler tube, 50mm external diameter, being driven into the soil by a monkey weighing 63.5kg and with a free drop of 760mm. For gravels and glacial till the driving shoe was replaced by a solid 60º cone. The Standard Penetration Test number referred to as the ‘N’ value is the number of blows required to drive the tube 300mm, after an initial penetration of 150mm. The number gives a guide to the consistency of the soil and can also be used to estimate the relative strength/density at the depth of the test and also to estimate the bearing capacity and compressibility of the soil. The cable percussion borehole logs are provided in Appendix 7 of this Report.

3.8. Surveying

The exploratory hole locations have been recorded using a KQ GEO Technologies KQ-M8 System which records the coordinates and elevation of the locations to ITM as required by the project specification. The coordinates and elevations are provided on the exploratory hole logs in the appendices of this Report.

3.9. Groundwater Monitoring Installations

Groundwater Monitoring Installations were installed upon the completion of the boreholes to enable sampling and the determination of the equilibrium groundwater level. The typical groundwater monitoring installation consists of a 50mm uPVC/HDPE slotted pipe with a pea gravel response zone and bentonite seal installed to the Engineers specification. The standpipe is sealed and finished with a durable steel cover fixed in place with a concrete surround. The installation details are provided on the exploratory hole logs in the appendices of this Report.

3.10. Laboratory Testing (Part Pending)

Samples were selected from the exploratory holes for a range of geotechnical and environmental testing to assist in the classification of soils and to provide information for the proposed design.
Environmental & Chemical testing as required by the specification, including the Rilta Suite, sulphate and pH testing was carried out by Element Materials Technology Laboratory in the UK. The Rilta suite testing includes both Solid Waste and Leachate Waste Acceptance Criteria.

Geotechnical testing consisting of moisture content, Atterberg limits, Particle Size Distribution (PSD), and hydrometer tests are being carried out in NMTL's Geotechnical Laboratory in Carlow.
The results of the laboratory testing are included in Appendix 8 of this Report.

4.0 Ground Conditions

4.1. General

The ground conditions encountered during the investigation are summarised below with reference to insitu and laboratory test results. The full details of the strata encountered during the ground investigation are provided in the exploratory hole logs included in the appendices of this report.

The sequence of strata encountered were consistent across the site and generally comprised;

- Topsoil
- Made Ground
- Cohesive Deposits

TOPSOIL: Topsoil was encountered in all the exploratory holes and was present to a maximum depth of 0.30m BGL.

MADE GROUND: Made Ground deposits were encountered beneath the Topsoil and were present to a variable depths between 0.50m and 2.60m BGL. These deposits were described either as *brown slightly sandy slightly gravelly Clay with cobbles* or *grey clayey sandy subangular fine to coarse Gravel and contained occasional fragments of concrete, red brick, glass and plastic.*

COHESIVE DEPOSITS: Cohesive deposits were encountered beneath the Made Ground and were described typically as *brown slightly sandy slightly gravelly* overlying a *stiff grey slightly sandy slightly gravelly CLAY*. The secondary sand and gravel constituents varied across the site and with depth, with granular lenses occasionally present in the cohesive matrix. The strength of the cohesive deposits typically increased with depth and was firm or stiff below 1.00m BGL in the majority of the exploratory holes. These deposits had low (<5%), medium (5%-20%) or high (20%-50%) cobble and boulder content, where noted on the exploratory hole logs.

4.2. Groundwater

Groundwater strikes are noted on the exploratory hole logs where they occurred and where possible drilling was suspended for twenty minutes to allow the subsequent rise in groundwater to be recorded. We would point out that these exploratory holes did not remain open for sufficiently long periods of time to establish the hydrogeological regime and groundwater levels would be expected to vary with the time of year, rainfall, nearby construction and other factors. For this reason, standpipes were installed in BH01, BH02, BH05 and BH06 to allow the equilibrium groundwater level to be determined. The groundwater monitoring is included in Appendix 9 of this Report.

4.3. Laboratory Testing (Part Pending)

4.3.1. Geotechnical Laboratory Testing (Pending)

These results were not available at the time of writing this report.

4.3.2. Chemical Laboratory Testing (Pending)

These results were not available at the time of writing this report.

4.3.3. Environmental Laboratory Testing

A number of samples were analysed for a suite of parameters which allows for the assessment of the sampled material in terms of total pollutant content for classification of materials as *hazardous* or *non-hazardous*. The suite also allows for the assessment of the sampled material in terms of suitability for placement at licenced landfills (inert, stable non-reactive, hazardous etc.). The parameter list for the suite includes analysis of the solid samples for arsenic, barium, cadmium, chromium, copper, cyanide, lead, nickel, mercury, zinc, speciated aliphatic and aromatic petroleum hydrocarbons, pH, sulphate, sulphide, moisture content, soil organic matter and an asbestos screen.
The suite also includes those parameters specified in the EU Council Decision establishing criteria for the acceptance of waste at Landfills (Council Decision 2003/33/EC), which for the solid samples are total organic carbon (TOC), speciated aliphatic and aromatic petroleum hydrocarbons, BTEX, phenol, polychlorinated biphenyls (PCB) and PAH.

As part of the suite a leachate is generated from the solid sample which is analysed for antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, chloride, fluoride, soluble sulphate, sulphide, phenols, dissolved organic carbon (DOC) and total dissolved solids (TDS).
While the laboratory report provides a comparison with the waste acceptance criteria limits it does not provide a waste classification of the material sampled nor does it comment on any potentially hazardous properties of the materials tested. The possibility for contamination, not revealed by the testing undertaken should be borne in mind particularly where Made Ground deposits are present or the previous site use or location indicate a risk of environmental variation.
The waste classification report will be included under the cover of a separate report by Ground Investigations Ireland.

The results from the completed laboratory testing are included in Appendix 8 of this report.

5.0 Recommendations & Conclusions

5.1. General

The recommendations given and opinions expressed in this report are based on the findings as detailed in the exploratory hole records. Where an opinion is expressed on the material between exploratory hole locations, this is for guidance only and no liability can be accepted for its accuracy. No responsibility can be accepted for conditions which have not been revealed by the exploratory holes. Limited information has been provided at the ground investigation stage and any designs based on the recommendations or conclusions should be completed in accordance with the current design codes, taking into account the variation and the specific details contained within the exploratory hole logs.

5.2. Foundations

At the location of the proposed structure an allowable bearing capacity with depth is outlined in the table below for conventional strip or pad foundations on the firm to stiff or stiff cohesive deposits at the depths outlined in the table below. The possibility for variation in the depth of the made ground in the vicinity of these foundations should be considered and foundation inspections should be carried out. Any soft spots encountered at the proposed foundation depths should be excavated and replaced with lean mix concrete.

A ground bearing floor slab is recommended to be based on the firm or stiff cohesive deposits with an appropriate depth of compacted hardcore specified by the consulting engineer and in accordance with the limits and guidelines in SR21:2014 +A1:2016 and/or NRA SRW CL808 Type E granular stone fill. Where the depth of Made Ground/Soft deposits exceeds 0.90m then suspended floor slabs should be considered.

The pH and sulphate testing completed on samples recovered from the exploratory holes indicates the pH results are near neutral and the sulphate results are low, when compared to the guideline values from BRE Special Digest 1:2005. No special precautions are required for concrete foundations to prevent sulphate attack.

	Allowable Bearing Capacities (ABC) kN/m^2						
Borehole	**ABC**	**Depth**	**Comment**	**Borehole**	**ABC**	**Depth**	**Comment**
No.	**kN/m^2**	**m BGL**		**No.**	**kN/m^2**	**m BGL**	
BH01	150	1.00	**Cohesive**	**BH01**	200	2.00	**Cohesive**
BH02	120	1.00	**Cohesive**	**BH02**	200	3.00	**Cohesive**
BH03	120	1.00	**Cohesive**	**BH03**	200	3.00	**Cohesive**
BH04	100	1.00	**Cohesive**	**BH04**	200	2.00	**Cohesive**
BH05	120	1.00	**Cohesive**	**BH05**	200	2.00	**Cohesive**
BH06	120	1.00	**Cohesive**	**BH06**	200	2.00	**Cohesive**

5.3. External Pavements

The proposed pavements are recommended to be designed in accordance with the CBR test results included in the Appendices of this Report. The variable CBR test results indicate that a capping layer or a sufficient depth of crushed stone fill may be required. Plate bearing tests are recommended at the time of construction to verify the design assumptions for the proposed pavement make up and to verify adequate compaction has been achieved.
The use of a geogrid and separation membrane may improve the performance of the proposed pavement and enable a more economical pavement design to be achieved, a specialist supplier is recommended to advise of the required strength, depth and type of geotextile for the proposed design.

5.4. Excavations

Short term temporary excavations in the cohesive deposits will remain stable for a limited time only and will require to be appropriately battered or the sides supported if the excavation is below 1.25m BGL or is required to permit man entry. Excavations in the Made Ground, or soft Cohesive Deposits will require to be appropriately battered or the sides supported due to the low strength of these deposits.
Any excavations which penetrate the granular deposits will require to be appropriately battered or the sides supported and are likely to require dewatering due to the groundwater seepages noted in the exploratory hole logs in the Appendices of this Report. The groundwater and stability noted on the trial pit logs should be consulted when determining the most appropriate construction methods for excavations.

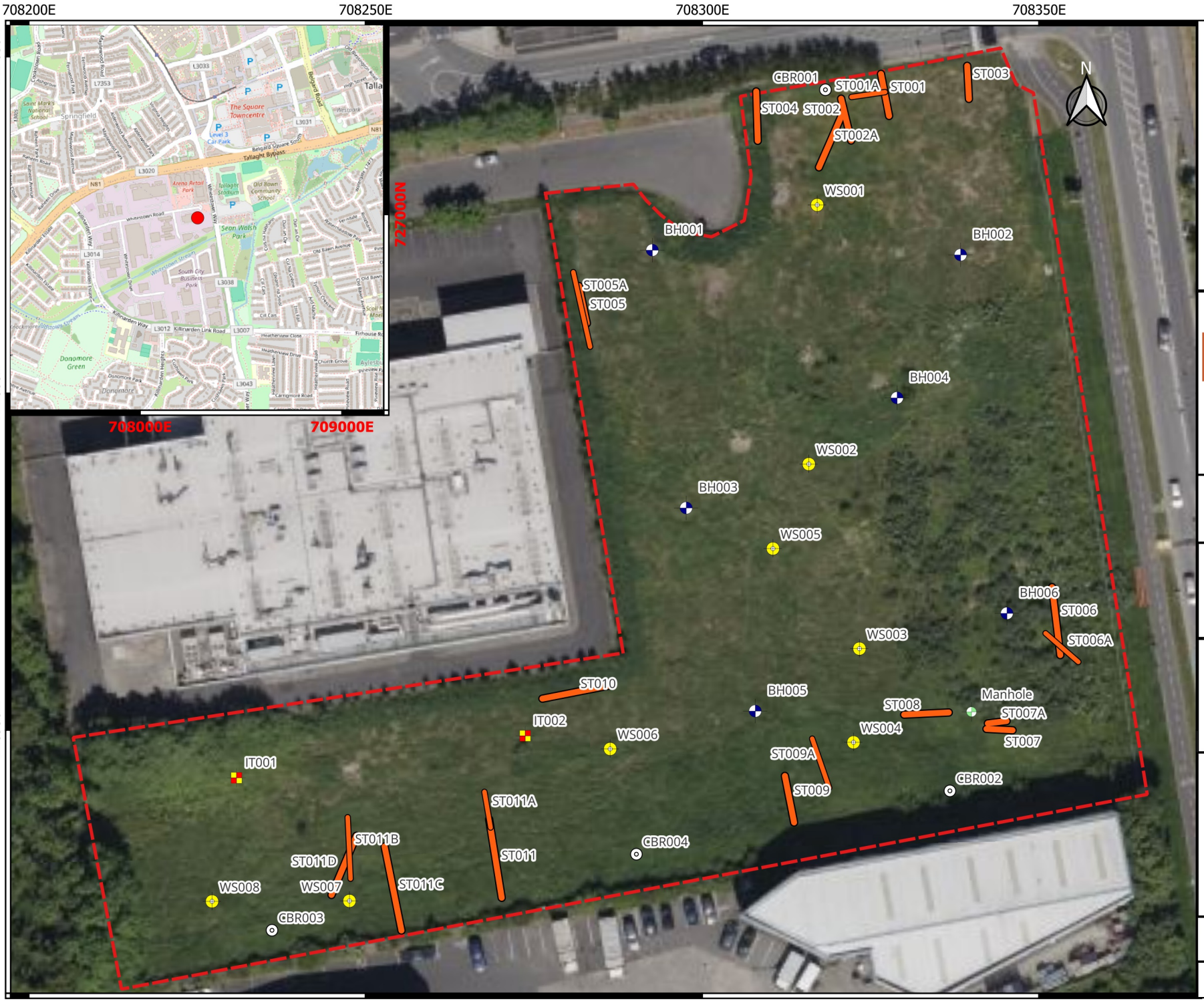
Any waste material to be removed off site should be disposed of to a suitably licenced landfill.
The environmental testing completed during the ground investigation is reported under the cover of a separate GII Waste Classification/Subsoil Assessment Report.

5.5. Soakaway Design

At the locations of IT001 and IT002 the water level dropped too slowly to allow calculation of ‘f’ the soil infiltration rate. These locations are therefore not recommended as suitable for soakaway design and construction.

The recommendations provided in this report should be verified in the design of the proposed buildings, using the full details of the loading conditions and taking into consideration the allowable tolerable settlements/movements that the building can accommodate. The founding strata should be inspected and verified by a suitably qualified engineer prior to construction of the building foundations.

APPENDIX 1 - Site Location Plan



Site Location
Indicative Site Boundary
Soakaway
Slit Trench
Window Sample
Plate Bearing Test
Cable Percussion Borehole
Manhole

Client:

DBFL

Project Code:
15186-11-25

Project Title:
Whitestown Way Tallaght

Drawing Title:
Figure 1 - Site Location Plan

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0 5 10 15 20 25 30 m

Drawn By:	Date:
SG	29/04/2026

APPENDIX 2 – Trial Pit Records

Trial Pit Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 10/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708230.78 N726942.76
Project No. : 15186-11-25	Crew Name: JOB	Equipment: JCB 3CX

Location Number	Location Type	Level	Logged By	Scale	Page Number
IT001	TP	96.05m AoD	RON	1:25	Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.20	95.85		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and rootlets.
						MADE GROUND: Brown sandy gravelly Clay with rare fragments of red brick and plastic
0.75	B					
			0.90	95.15		
			1.00	95.05		Soft to firm brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
2.20	0.60	Stable		Soakaway test carried out in trial pit			

Remarks

No groundwater encountered
Trial pit backfilled upon completion

Trial Pit Log

Project Name: Whitestown Way Tallaght	Client: DBFL	Date: 10/01/2026
Location: Whitestown Road, Co. Dublin	Contractor: GII Ltd.	Co-ords: E708273.65 N726949.00
Project No. : 15186-11-25	Crew Name: JOB	Equipment: JCB 3CX

Location Number	Location Type	Level	Logged By	Scale	Page Number
IT002	TP	96.55m AoD	RON	1:25	Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.20	96.35		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and rootlets.
						MADE GROUND: Dark brown sandy gravelly Clay with rare fragments of red brick and plastic
0.50	B		0.50	96.05		Soft grey mottled brown slightly sandy slightly gravelly CLAY with low rounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.
0.75	B					
			1.20	95.35		Firm grey mottled brown and orange slightly sandy slightly gravelly CLAY with low rounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse.
1.50	B					
			2.00	94.55		

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
2.30	0.60	Stable		Soakaway test carried out in trial pit			

Remarks

No groundwater encountered
Trial pit backfilled upon completion

Whitestown Way Tallaght – Infiltration Test Photographs

IT001

IT001

Whitestown Way Tallaght – Infiltration Test Photographs

IT002

IT002

APPENDIX 3 – Slit Trench Records

ST-001

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Z:96.775

N
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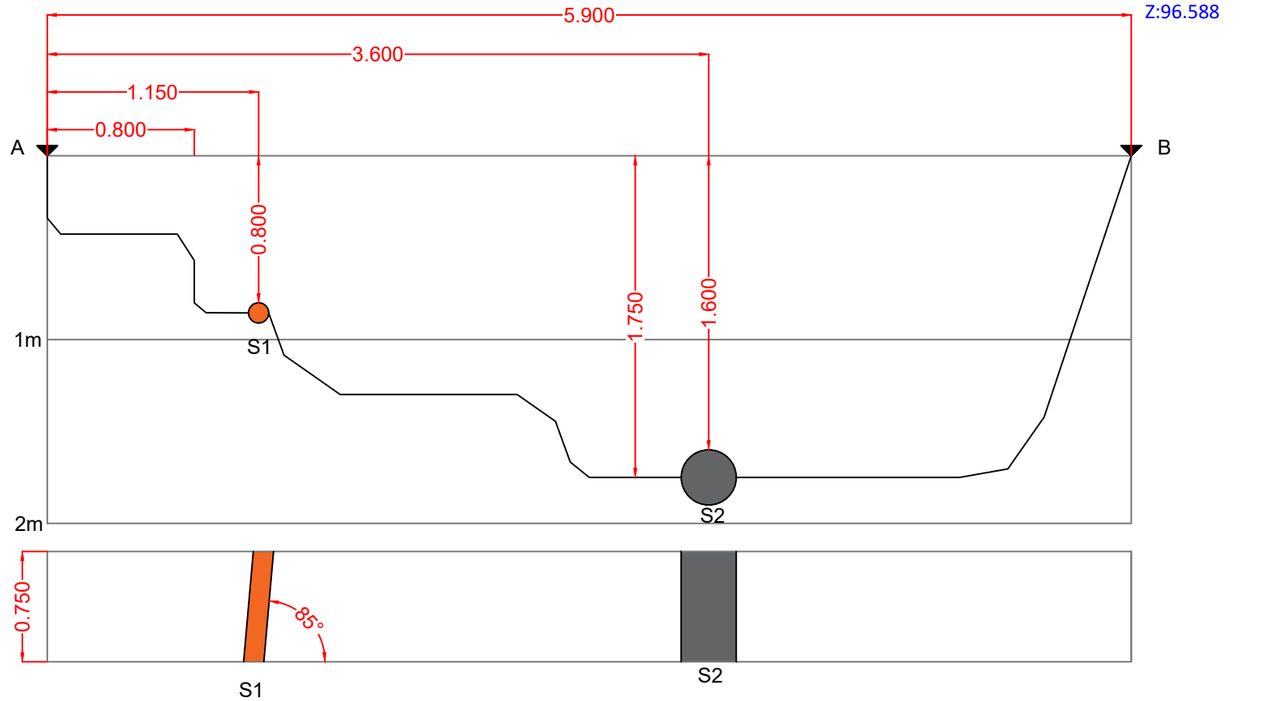
N:727041.196
Z:96.588



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.110	Orange Plastic	Water	85°	708326.445	727046.377	96.098
S2	0.300	Concrete	Water	90°	708326.953	727043.558	95.413

From (m)	To (m)	Description
0.00	0.30	TOPSOIL
0.30	1.75	MADE GROUND: Dark grey slightly sandy slightly clayey subangular to subrounded fine to coarse Gravel.

Surface from/to (m)		Surface type
0.00	5.90	Grass

Sample depth (m)	Sample type
0.75	B
1.50	B

Groundwater		
Y/N	Depth	Notes
N		

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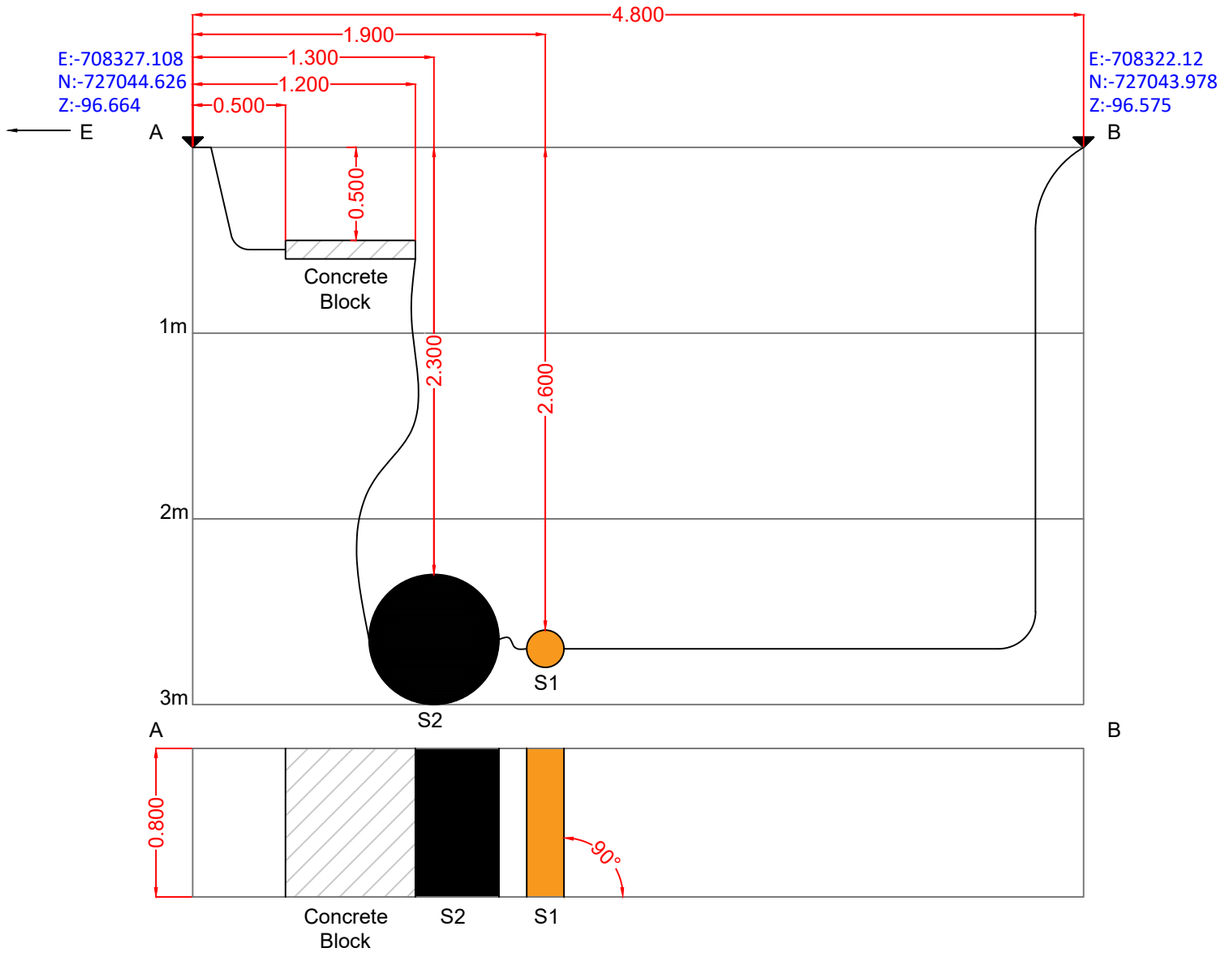
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-001
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-001A



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.2	Orange Plastic	Water	90°	708324.867	727044.462	94.014
S2	0.7	Black	Water	90°	708326.014	727044.679	94.297

From (m)	To (m)	Description
0.00	0.40	Brown slightly sandy slightly gravelly CLAY.
0.40	1.20	CL 808: Dark grey slightly clayey slightly sandy angular fine to coarse GRAVEL.
1.20	3.00	Brown slightly sandy gravelly CLAY.

Surface from/to (m)		Surface type
0.00	4.80	Grass

Sample depth (m)	Sample type

Groundwater	Y/N	Depth	Notes
	Y	2.8	-

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PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-001A
DATE:	19/03/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	20/04/2026	S.D.	D.K.

ST-002

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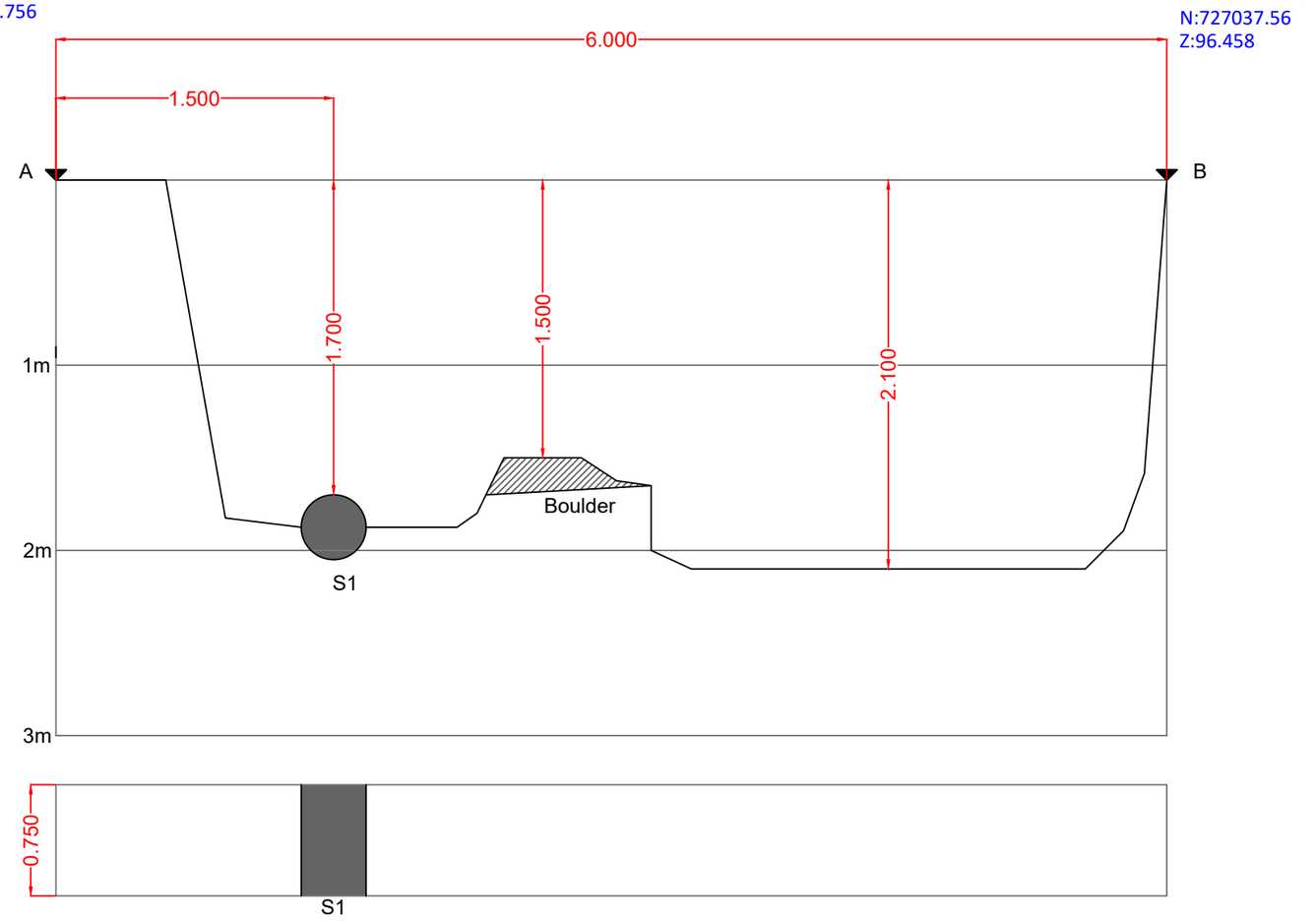

Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.35	Concrete	-	90°	708321.228	727042.425	95.047

Surface from/to (m)		Surface type
0.00	6.00	Grass

Sample depth (m)	Sample type
-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	1.60	Dark grey slightly sandy slightly clayey subangular to subrounded fine to coarse GRAVEL.
1.60	2.10	Stiff brown slightly gravelly CLAY with low subrounded cobble content .

Groundwater		
Y/N	Depth	Notes
N		

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Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-002A

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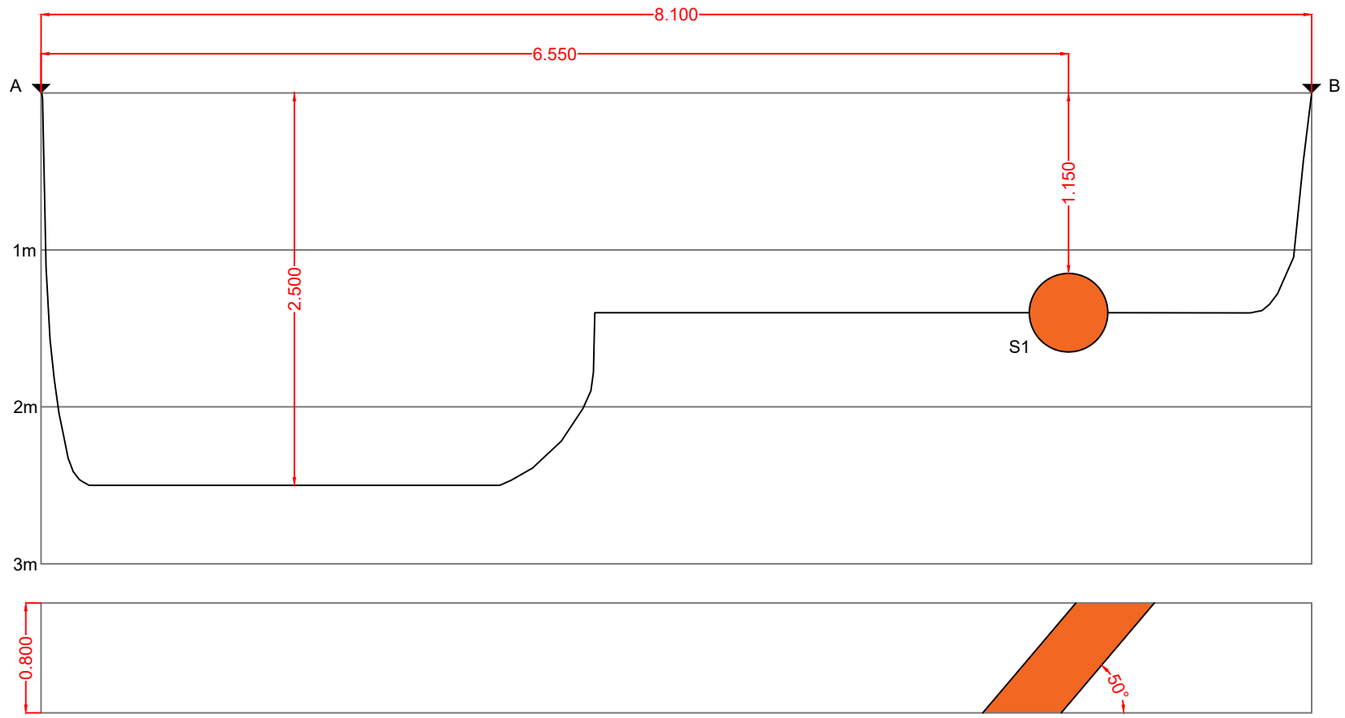

Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.25	Orange Plastic	Water	50°	708318.99	727037.507	96.433

Surface from/to (m)		Surface type
0.00	8.10	Grass

Sample depth (m)	Sample type
-	-

From (m)	To (m)	Description
0.00	0.02	TOPSOIL
0.02	1.20	MADE GROUND: Dark grey slightly clayey sandy angular to subangular.
1.20	2.50	Firm brown mottled grey sandy gravelly CLAY.

Groundwater	Y/N	Depth	Notes
	N		

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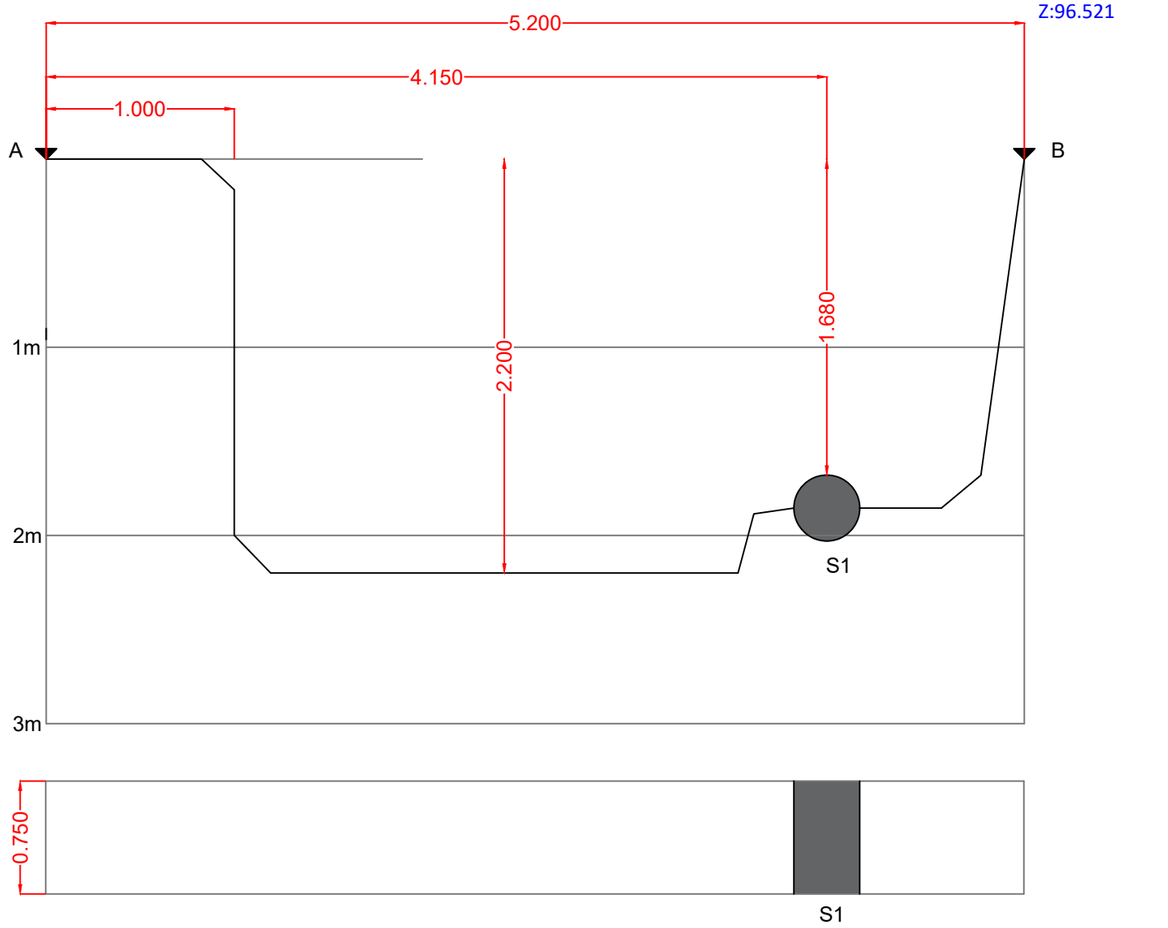
PROJECT:	15186-11-25 - Whitestown way, Tallaght
DRAWING No.:	ST-002A
DATE:	13/04/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	16/04/2026	S.F.	R.O.N

ST-003

S
E:708339.34
N:727048.63
Z:96.68

N
E:708339.581
N:727043.705
Z:96.521



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.350	Concrete	Telecom	90°	708339.516	727045.403	95.365

Surface from/to (m)		Surface type
0.00	5.20	Grass

Sample depth (m)	Sample type
-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	1.00	MADE GROUND: Grey slightly sandy slightly clayey subangular to subrounded fine tocoarse Gravel.
1.00	2.20	Firm slightly sandy slightly gravely CLAY with low cobble content.

Groundwater		
Y/N	Depth	Notes
N		

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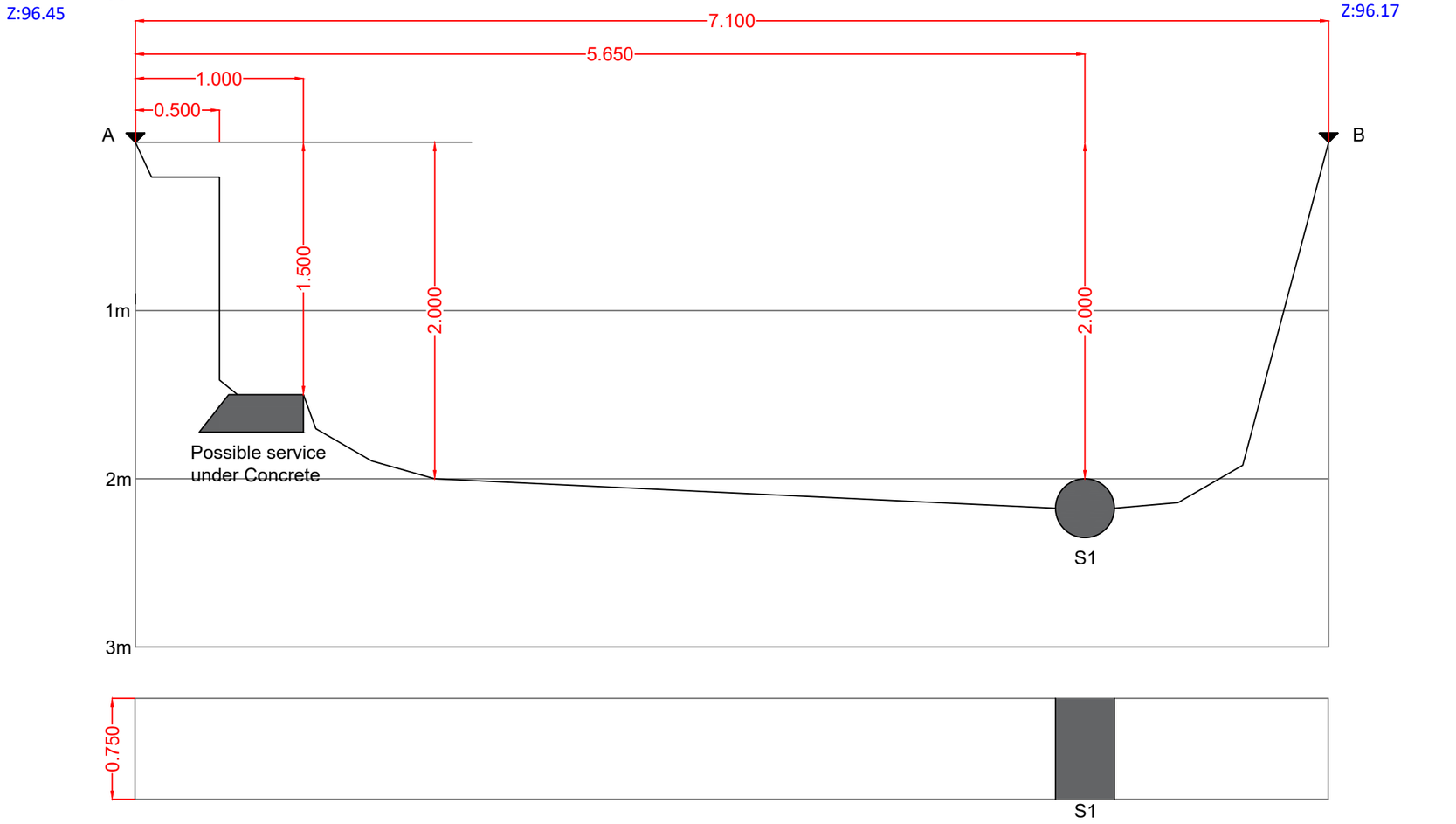
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-003
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-004

S
E:708307.985
N:727044.795
Z:96.45

N
E:708308.21
N:727037.463
Z:96.17



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.350	Concrete	-	90°	708308.172	727039.678	95.014

Surface from/to (m)		Surface type
0.00	7.10	Grass

Sample depth (m)	Sample type
-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	0.70	MADE GROUND: Soft brownish grey slightly sandy gravely Clay with low cobble content with fragments of red brick, wire and plastic.
0.70	2.00	MADE GROUND: Dark grey slightly sandy slightly clayey subangular to subrounded fine to coarse Gravel.

Groundwater		
Y/N	Depth	Notes
Y	1.80	Moderate Ingress

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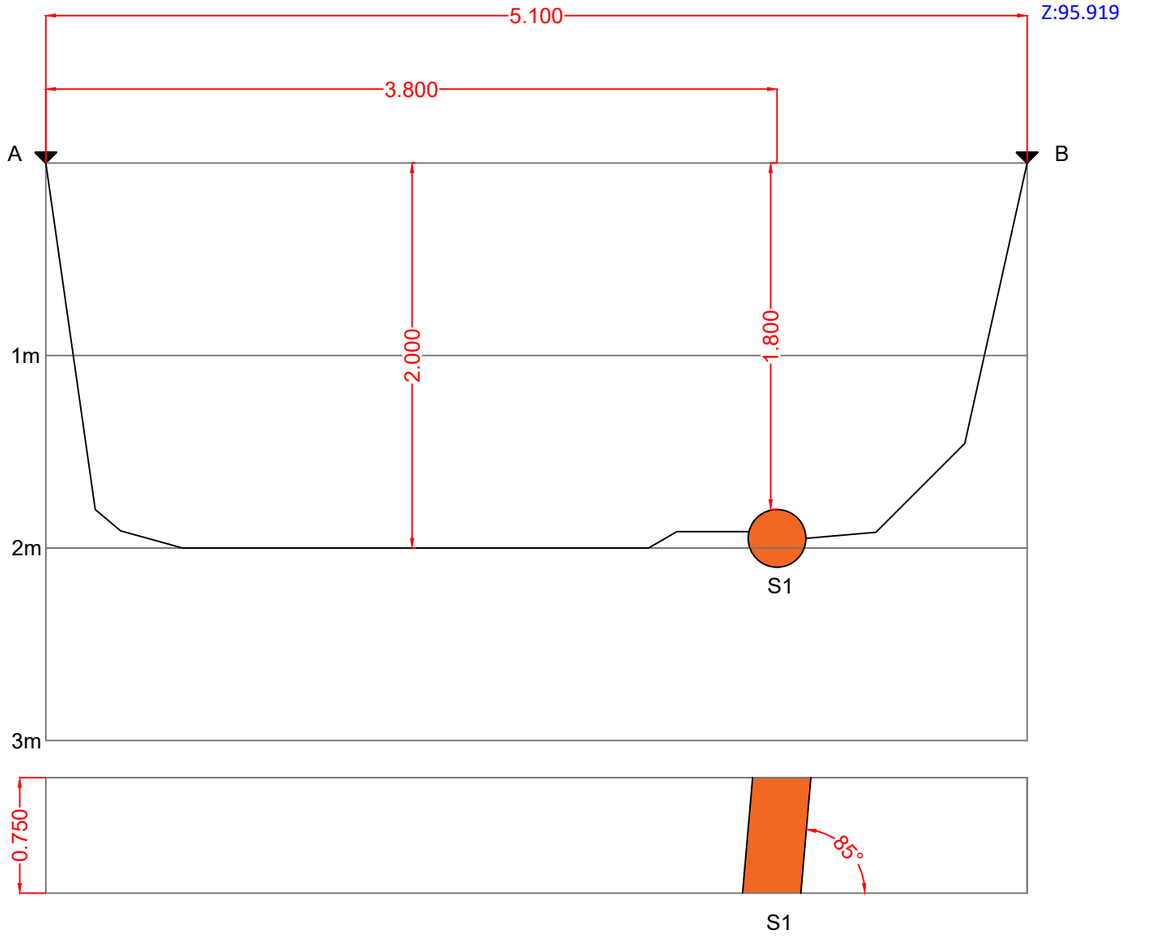
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-004
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-005

S
E:708281.688
N:727015.898
Z:96.001

N
E:708282.854
N:727010.388
Z:95.919



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.300	Orange Plastic	Water	85°	708282.409	727012.535	94.631

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	2.00	Firm dark brown slightly sandy gravelly CLAY with medium cobble content and low boulder content.

Surface from/to (m)		Surface type
0.00	5.10	Grass

Sample depth (m)	Sample type
-	-

Groundwater		
Y/N	Depth	Notes
Y	1.50	

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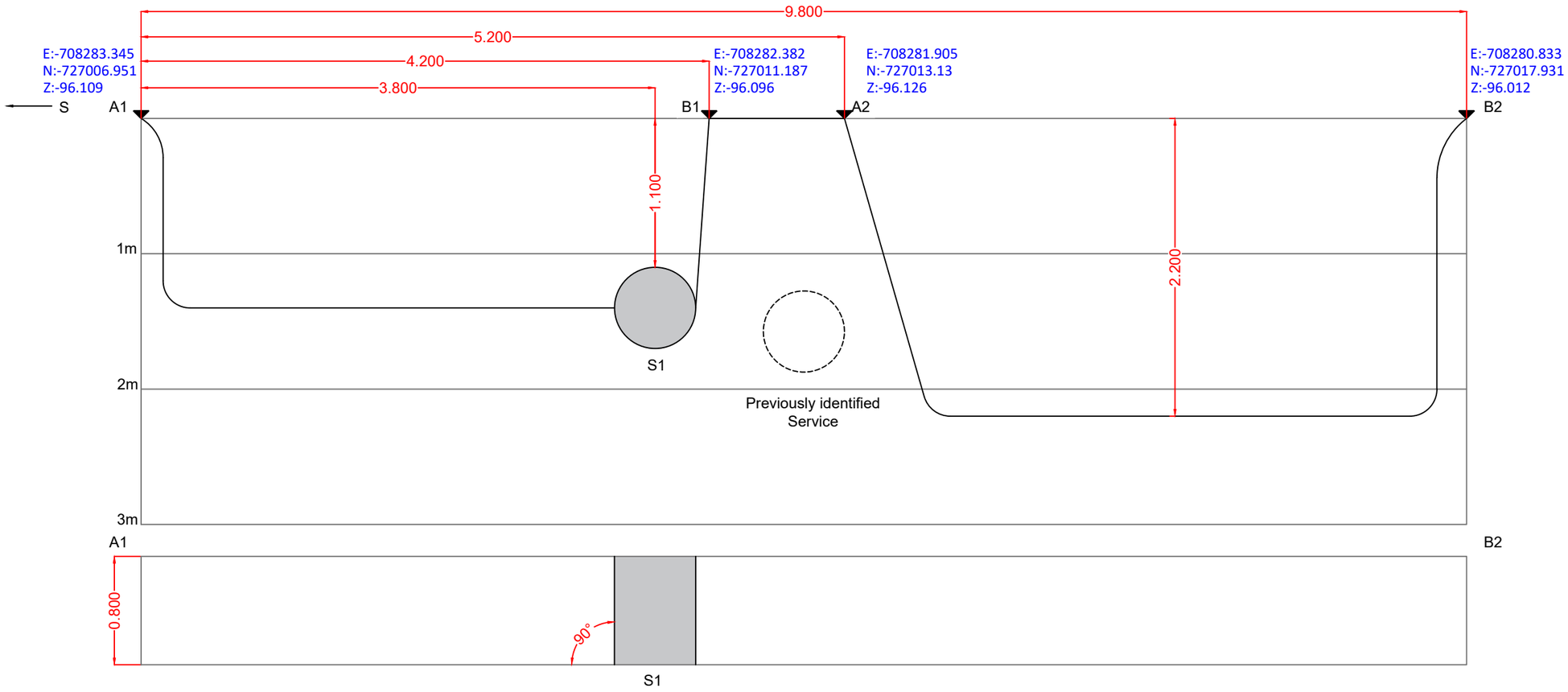
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-005
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-005A



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.6	Grey - Concrete	Water	90°	708283.007	727010.502	95.009

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	2.40	Brown slightly sandy gravelly CLAY with medium cobble content.

Surface from/to (m)		Surface type
0.00	9.80	Grass

Sample depth (m)	Sample type

Groundwater	Y/N	Depth	Notes
	N	-	-

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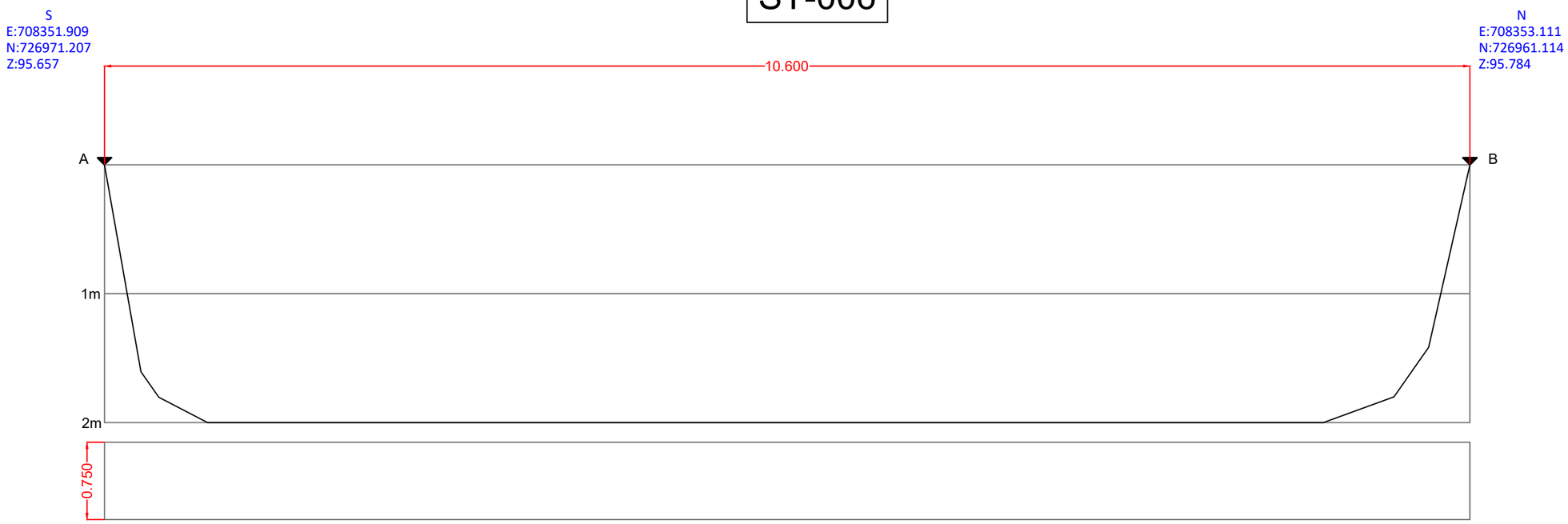
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-005A
DATE:	19/03/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	20/04/2026	S.D.	D.K.

ST-006



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	-	-	-	-	-	-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	0.60	Firm light brown sandy gravelly CLAY.
0.60	2.00	Firm to stiff brown slightly sandy gravelly CLAY with low to medium cobble content.

Surface from/to (m)		Surface type
0.00	10.60	Grass

Sample depth (m)	Sample type
-	-

Groundwater		
Y/N	Depth	Notes
N		

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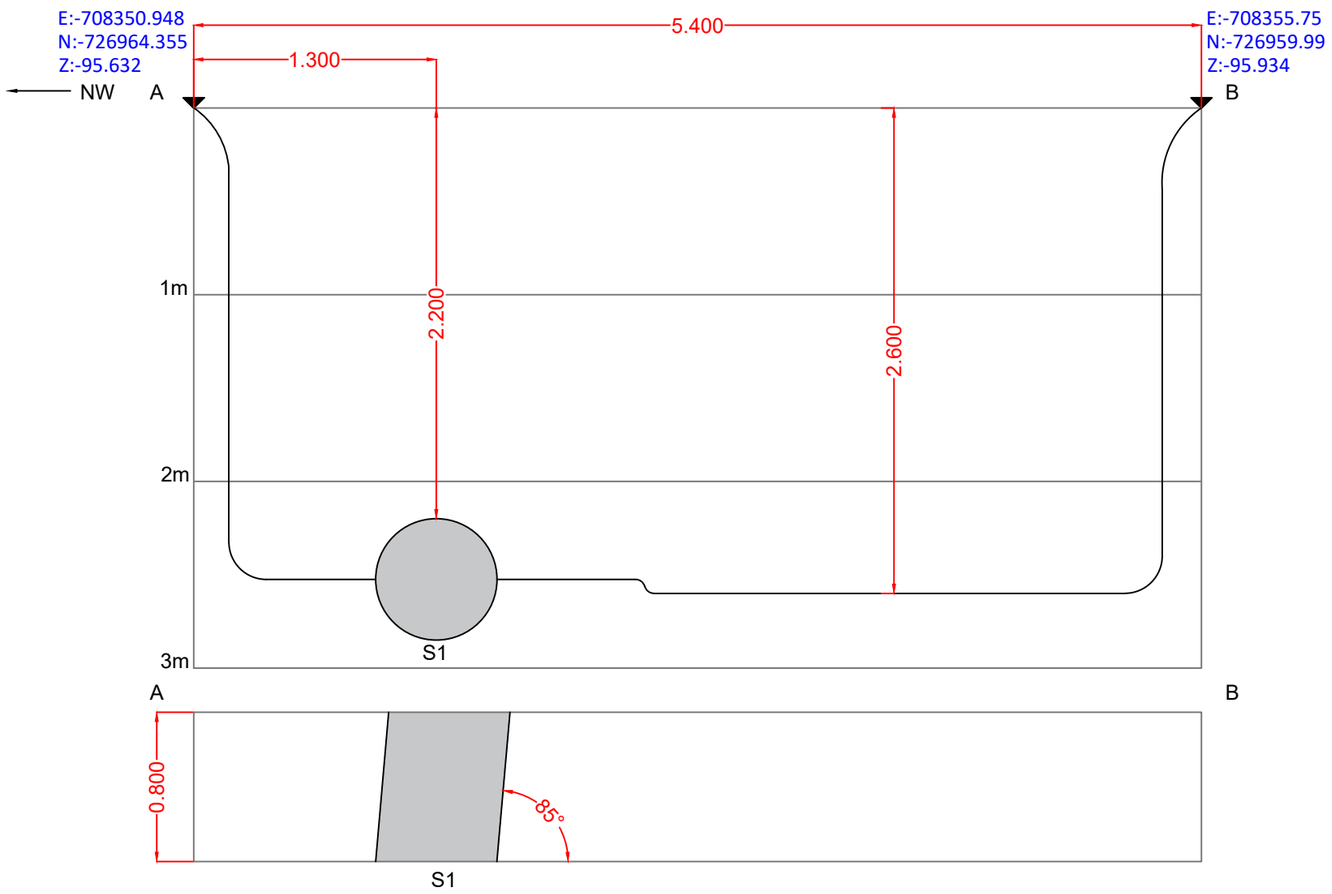
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-006
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-006A



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.65	Concrete Block	Water	85°	708352.134	726962.855	93.372

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	2.50	Brown slightly sandy gravelly CLAY with low cobble content.
0.50	2.60	Grey slightly sandy gravelly CLAY.

Surface from/to (m)		Surface type
0.00	5.40	Grass

Sample depth (m)	Sample type

Groundwater	Y/N	Depth	Notes
	N	-	-

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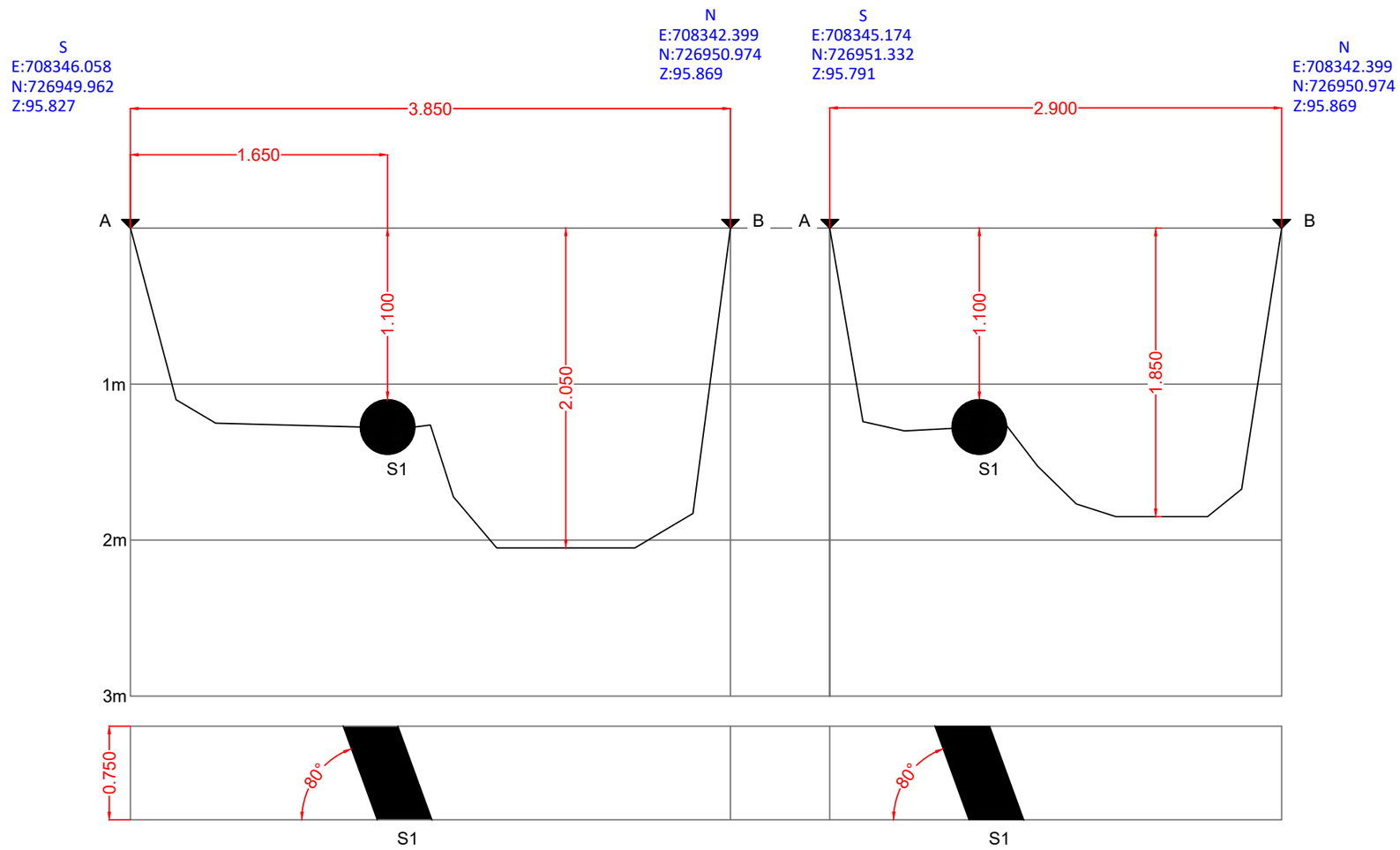
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-006A
DATE:	19/03/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	20/04/2026	S.D.	D.K.

ST-007 - ST007A



	Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
						East	North	
ST-007	S1	0.350	Black	Water	80°	708344.064	726949.92	94.772
ST-007A	S1	0.350	Black	Water	80°	708343.88	726950.888	94.715

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	2.05	MADE GROUND: Brown slightly sandy slightly gravely Clay with fragments of red brick,plastic and metal.

Surface from/to (m)		Surface type
0.00	3.85	Grass

Sample depth (m)	Sample type
-	-

Groundwater		
Y/N	Depth	Notes
Y	1.50	

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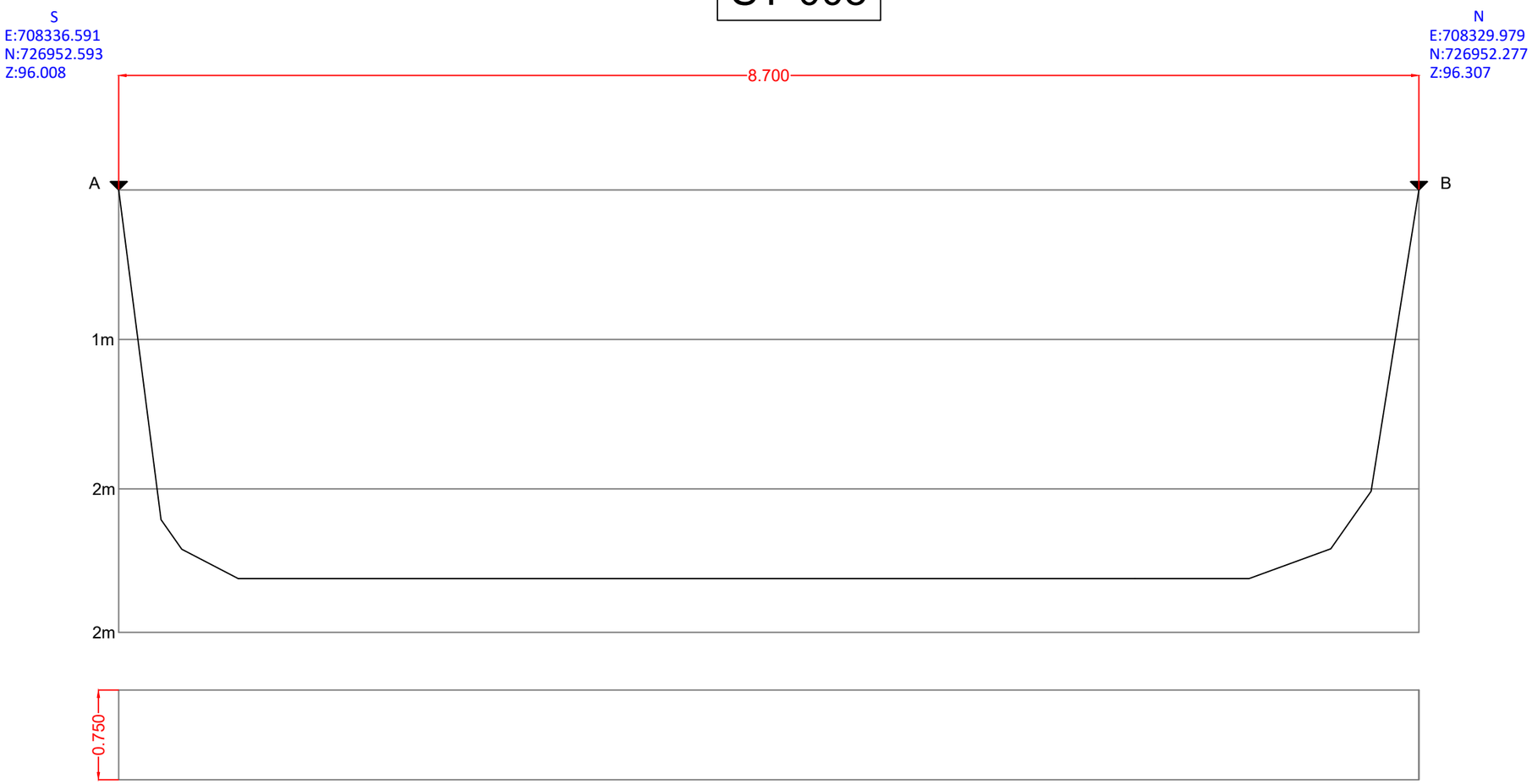
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-007 + ST-007A
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-008



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	-	-	-	-	-	-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	2.60	MADE GROUND: Brown to light brown slightly sandy slightly gravelly Clay with fragments of red brick, plastic and metal.

Surface from/to (m)		Surface type
0.00	8.70	Grass

Sample depth (m)	Sample type
-	-

Groundwater		
Y/N	Depth	Notes
N		

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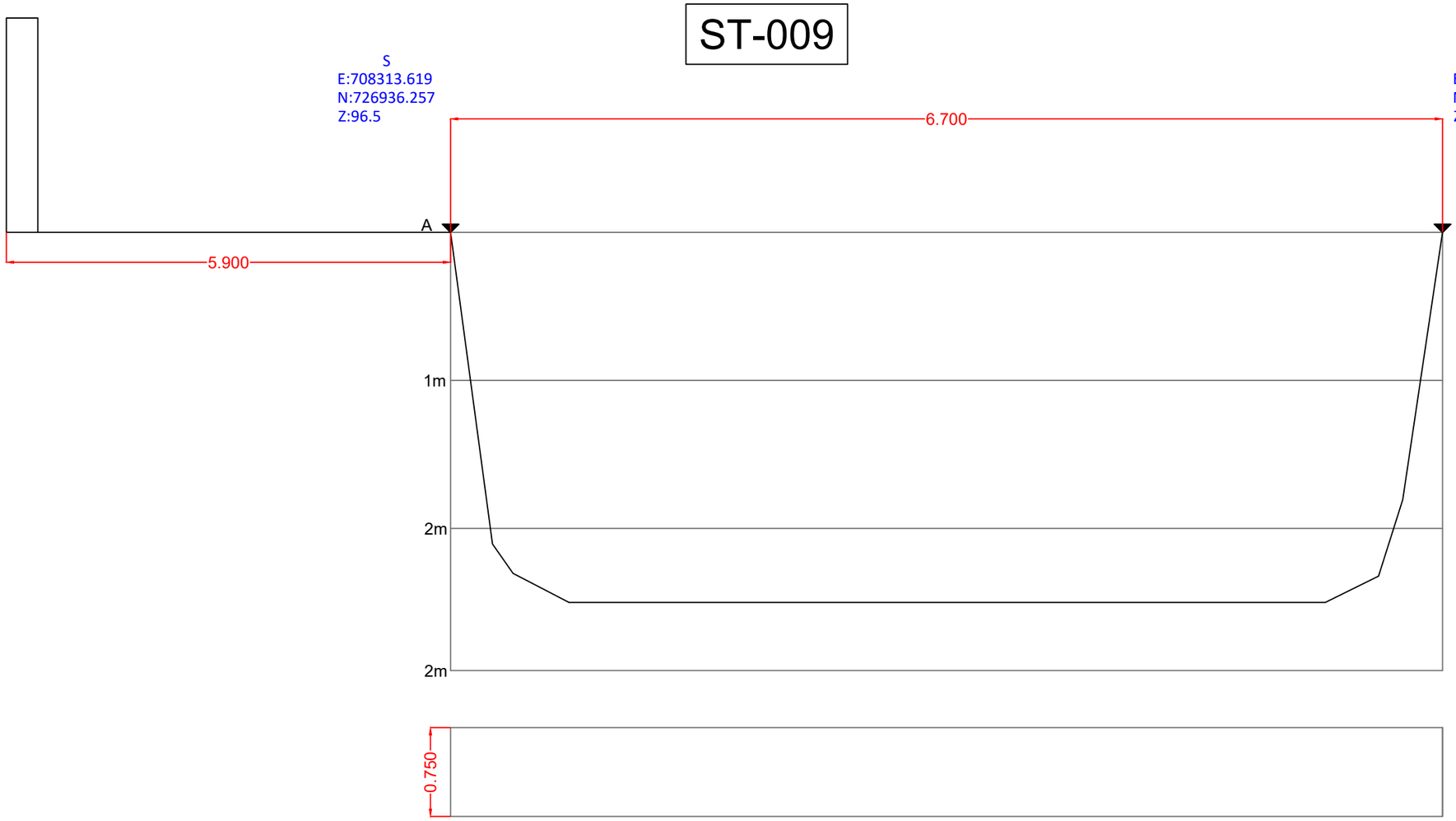
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-008
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-009



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	-	-	-	-	-	-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	1.00	MADE GROUND: Light brown sandy gravelly Clay with low cobble content and fragments of red brick and wire.
1.00	2.30	Firm brown sandy gravelly CLAY with low cobble content.
2.30	2.50	Stiff dark grey slightly sandy slightly gravelly CLAY.

Surface from/to (m)		Surface type
0.00	6.70	Grass

Sample depth (m)	Sample type
-	-

Groundwater		
Y/N	Depth	Notes
N		

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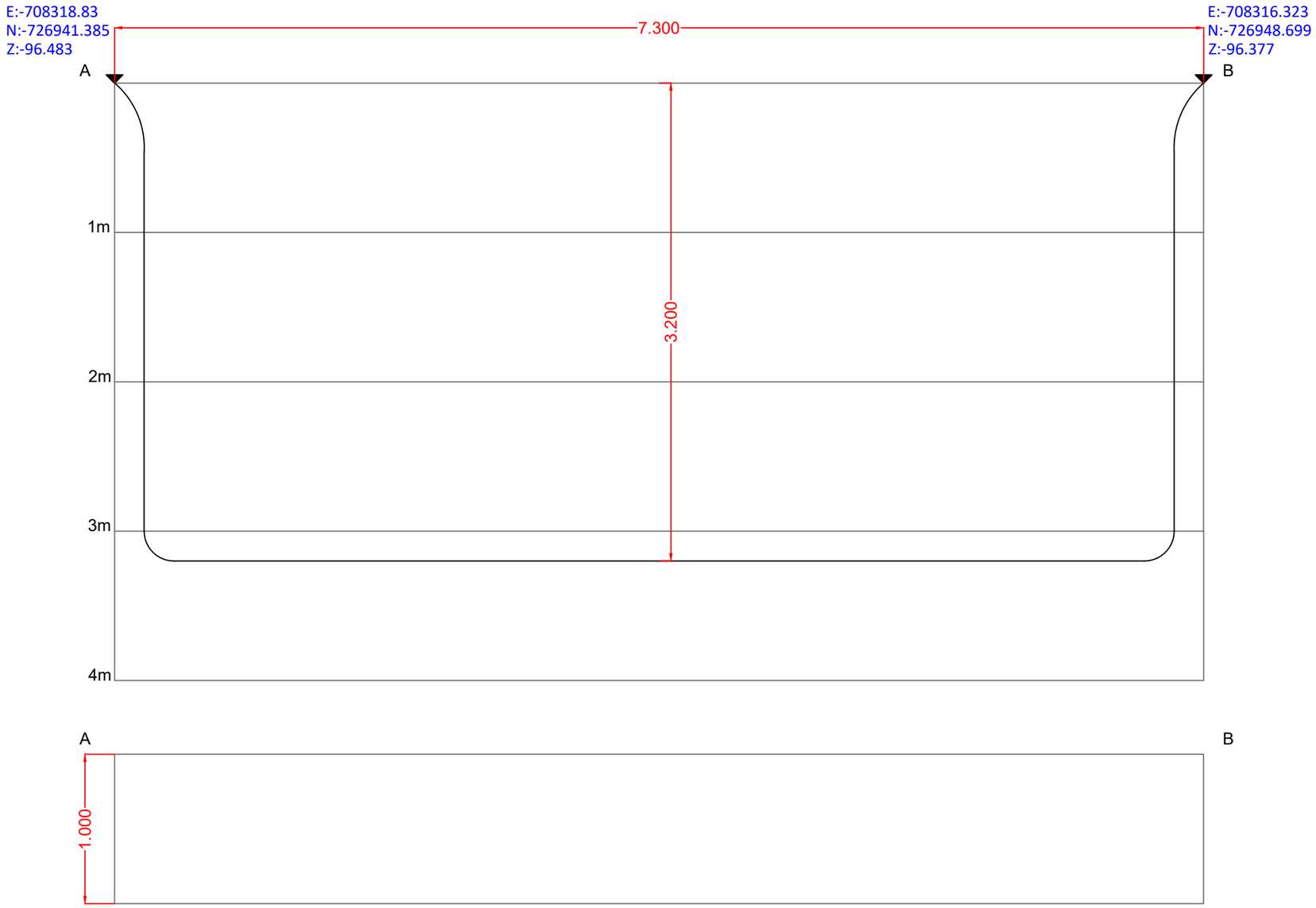
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-008
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-009A



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
-	-	-	-	-	-	-	-

From (m)	To (m)	Description
0.00	1.00	MADE GROUND: Brown sandy gravelly CLAY with concrete blocks.
1.00	2.80	Brown slightly sandy gravelly CLAY with low cobble content.
2.80	3.50	Stiff grey slightly sandy gravelly CLAY.

Surface from/to (m)		Surface type
0.00	7.30	Grass

Sample depth (m)	Sample type

Groundwater	Y/N	Depth	Notes
	N	-	-

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PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-009
DATE:	19/03/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	20/04/2026	S.D.	D.K.

ST-010

S
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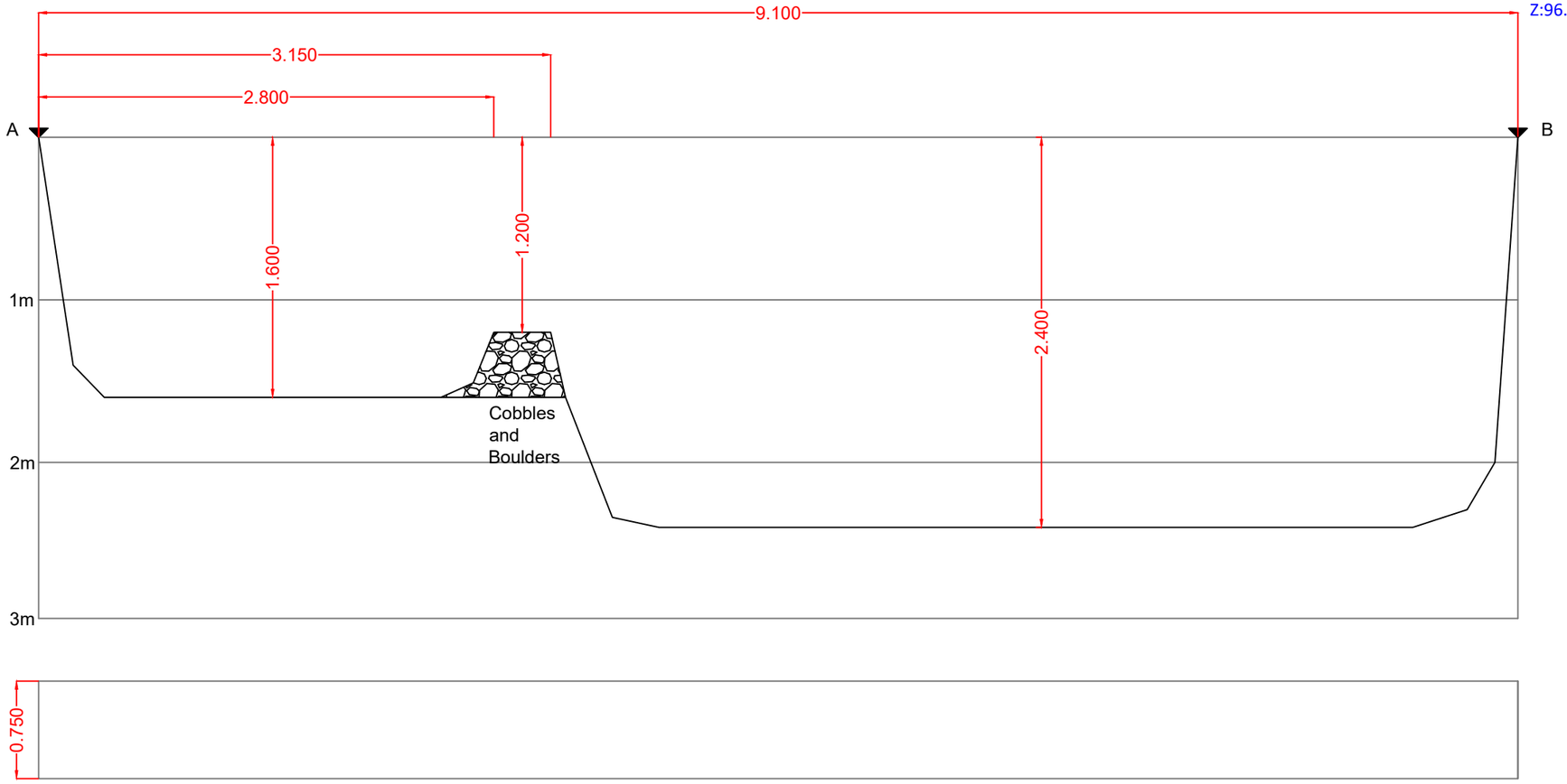
N:726954.626
Z:96.702

N
E:708286.004
N:726956.585
Z:96.487



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	-	-	-	-	-	-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	1.00	MADE GROUND: Dark brown slightly sandy gravelly Clay with low cobble content.
1.00	2.40	Firm brown slightly clayey gravely CLAY with low cobble content.

Surface from/to (m)		Surface type
0.00	9.10	Grass

Sample depth (m)	Sample type
0.75	B
1.50	B

Groundwater		
Y/N	Depth	Notes
Y	2.40	

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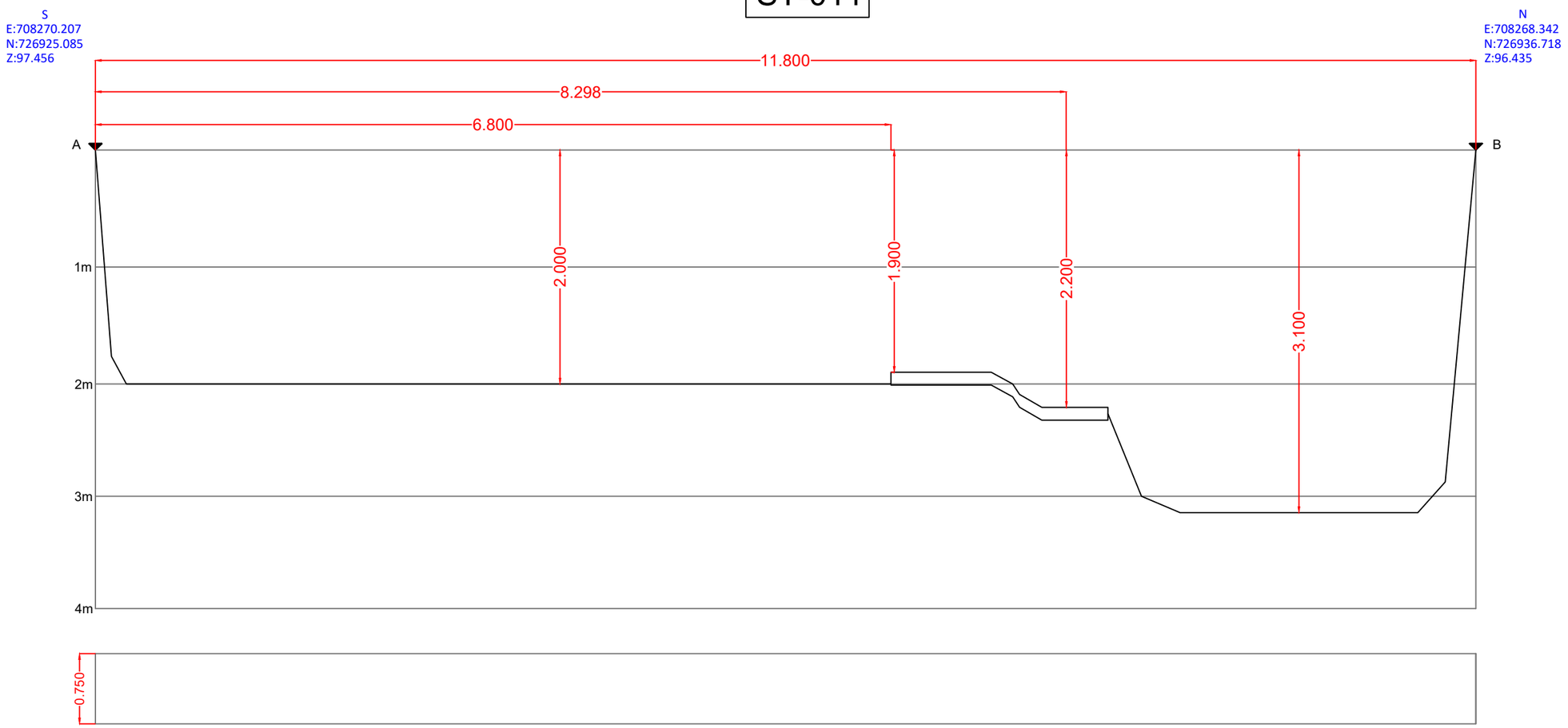
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-010
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-011



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	-	-	-	-	-	-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	1.00	MADE GROUND: Brown sandy gravely Clay with low cobble content and fragments of red brick and plastic.
1.00	2.10	MADE GROUND: Dark brown sandy gravelly Clay with low cobble content and concrete.
2.10	3.00	Firm dark brown slightly sandy gravely CLAY.

Surface from/to (m)		Surface type
0.00	11.80	Grass

Sample depth (m)	Sample type
0.75	B
1.50	B

Groundwater		
Y/N	Depth	Notes
N	-	

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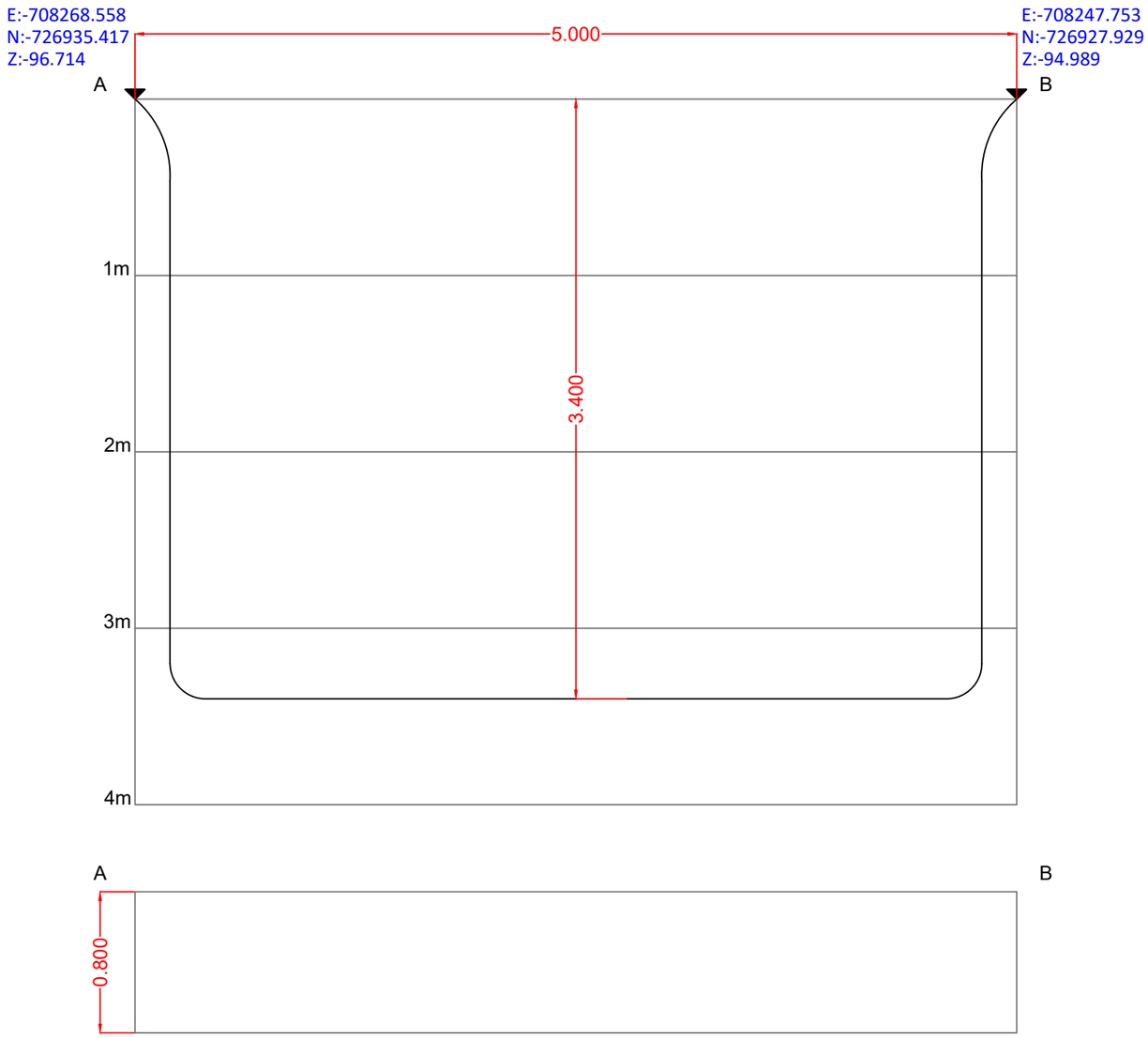
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-011
DATE:	15/01/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	14/02/2026	A.D.	P.D.

ST-011A



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
-	-	-	-	-	-	-	-

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	0.50	Light brown sandy gravelly CLAY.
0.50	2.80	Greyish brown slightly sandy gravelly CLAY with low cobble content.
2.80	3.40	Grey sandy gravelly CLAY with low cobble content.

Surface from/to (m)		Surface type
0.00	5.00	Grass

Sample depth (m)	Sample type

Groundwater	Y/N	Depth	Notes
	Y	3.20	-

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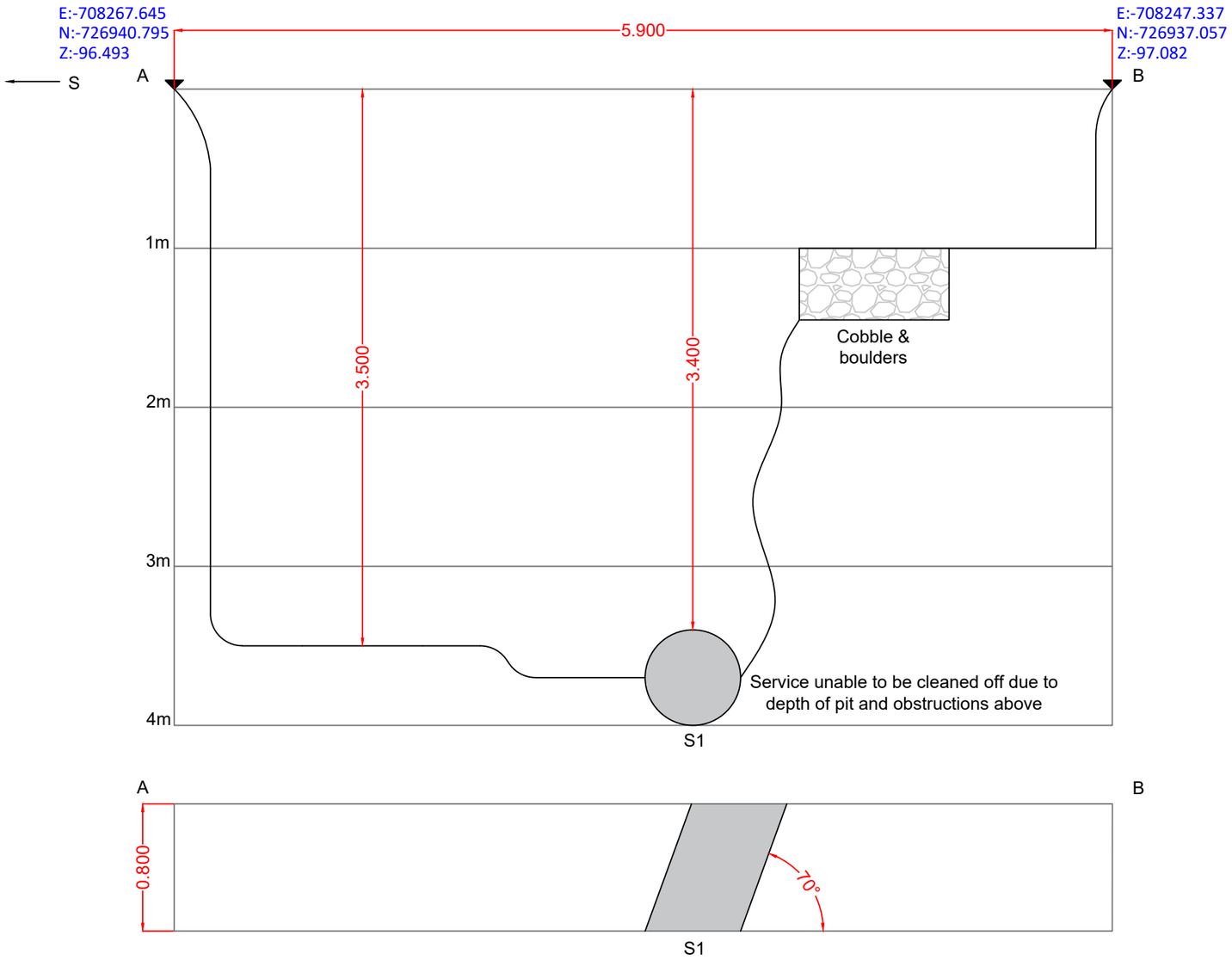
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-011A
DATE:	19/03/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	20/04/2026	S.D.	D.K.

ST-011B



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.6	Concrete	Water	70°	708247.85	726935.648	93.641

From (m)	To (m)	Description
0.00	0.20	TOPSOIL
0.20	2.80	Greyish brown slightly sandy gravelly CLAY with low cobble content.
2.80	3.50	Grey sandy gravelly CLAY with medium cobble content.

Surface from/to (m)		Surface type
0.00	5.90	Grass

Sample depth (m)	Sample type

Groundwater	Y/N	Depth	Notes
	Y	3.10	-

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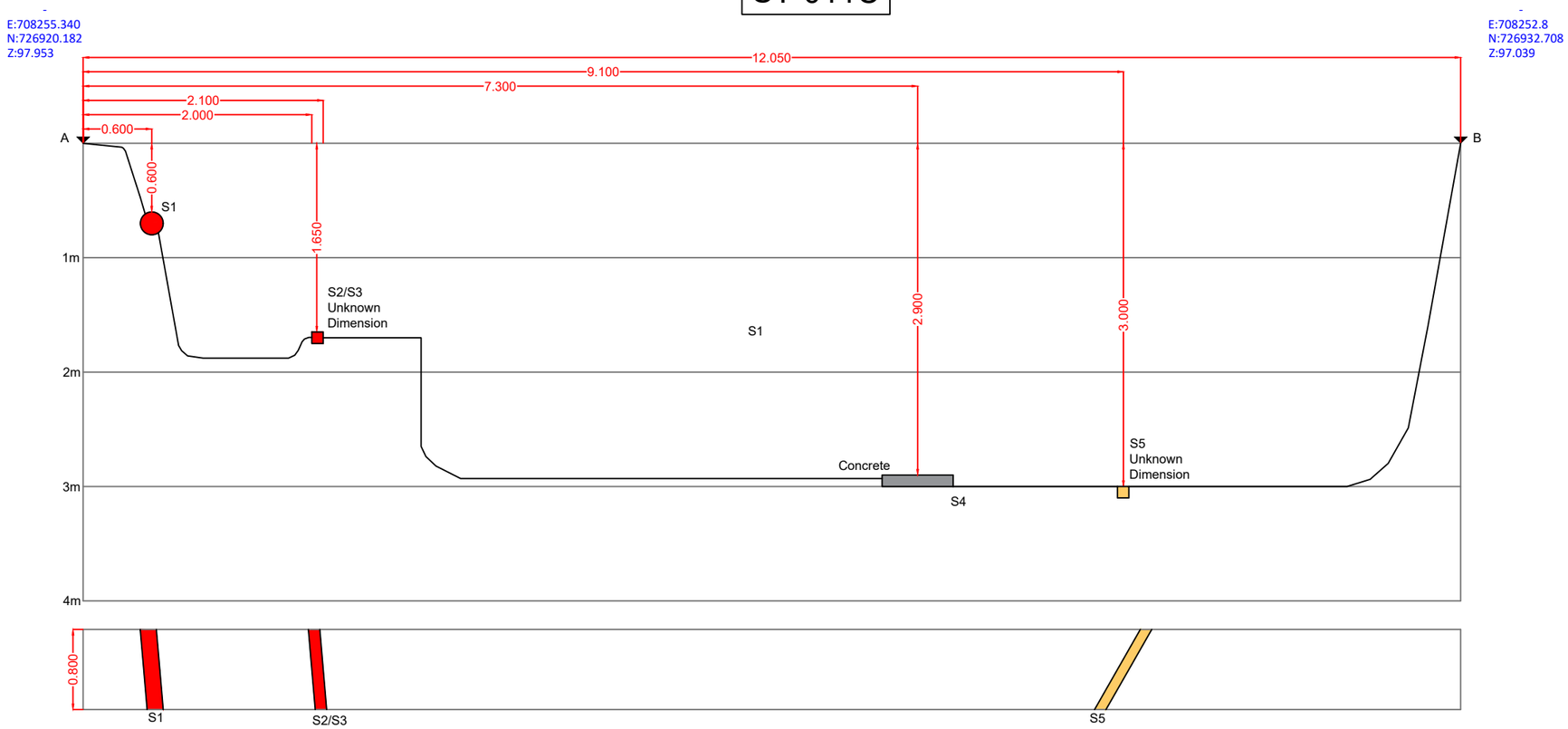
PROJECT:	15186-11-25 - Whitestown Way Tallaght
DRAWING No.:	ST-011B
DATE:	19/03/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	20/04/2026	S.D.	D.K.

ST-011C



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.20	Red Plastic	ESB	85°	708254.954	726920.31	97.877
S2	-	Red Plastic	ESB	85°	708254.394	726922.159	97.877
S3	-	Red Plastic	ESB	85°	708254.351	726922.283	97.855
S4	-	Red Plastic	ESB	85°	708253.606	726927.022	97.094
S5	-	Abbestos	Water	60°	708253.212	726928.931	97.027

From (m)	To (m)	Description
0.00	0.02	TOPSOIL
0.02	2.00	MADE GROUND: Brown mottled grey sandy gravelly Clay.
1.20	2.50	MADE GROUND: Grey sandy gravelly Clay.

Groundwater	Y/N	Depth	Notes
	N		

Surface from/to (m)		Surface type
0.00	12.05	Grass

Sample depth (m)	Sample type
-	-

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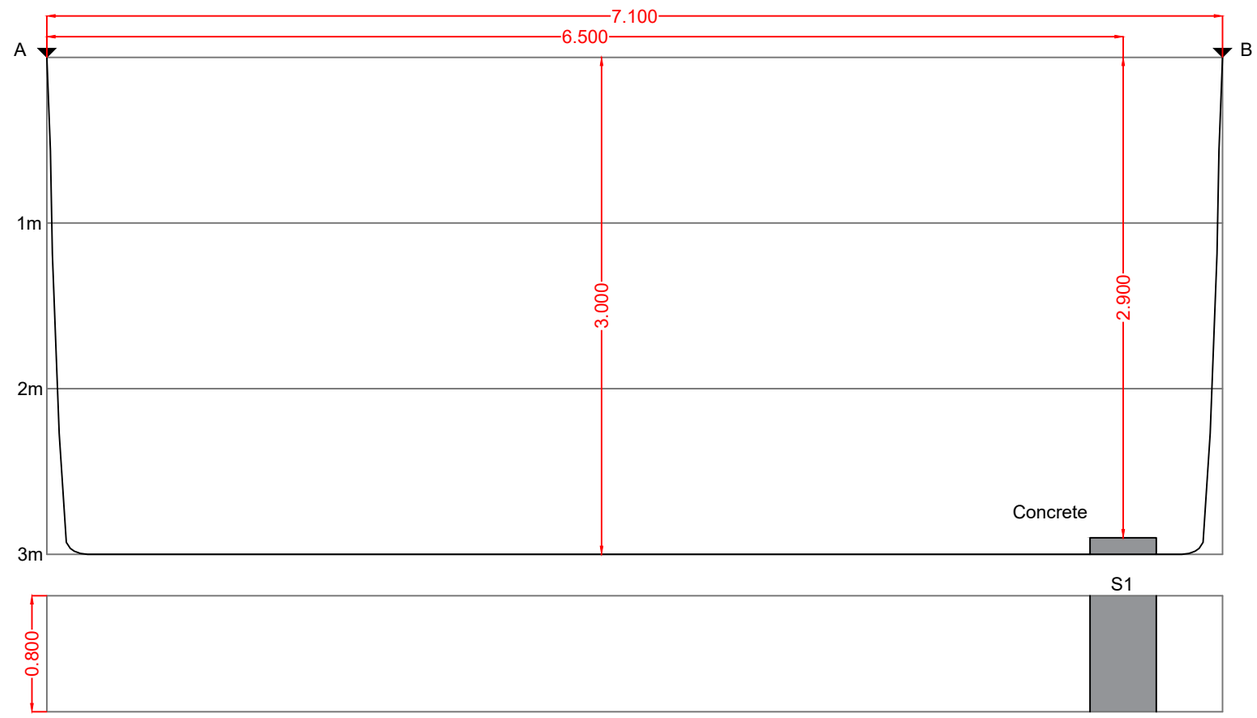
PROJECT:	15186-11-25 - Whitestown way, Tallaght
DRAWING No.:	ST-011C
DATE:	13/04/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	16/04/2026	S.F.	R.O.N

-
E:708244.952
N:726925.49
Z:97.084

ST-011D

-
E:708248.63
N:726934.262
Z:97.118



Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	-	Concrete	-	-	708246.563	726929.413	97.119

Surface from/to (m)		Surface type
0.00	7.10	Grass

Sample depth (m)	Sample type
-	-

From (m)	To (m)	Description
0.00	0.02	TOPSOIL
0.02	2.00	MADE GROUND: Brown mottled grey sandy gravelly Clay.
1.20	2.50	MADE GROUND: Grey sandy gravelly Clay.

Groundwater	Y/N	Depth	Notes
	N		

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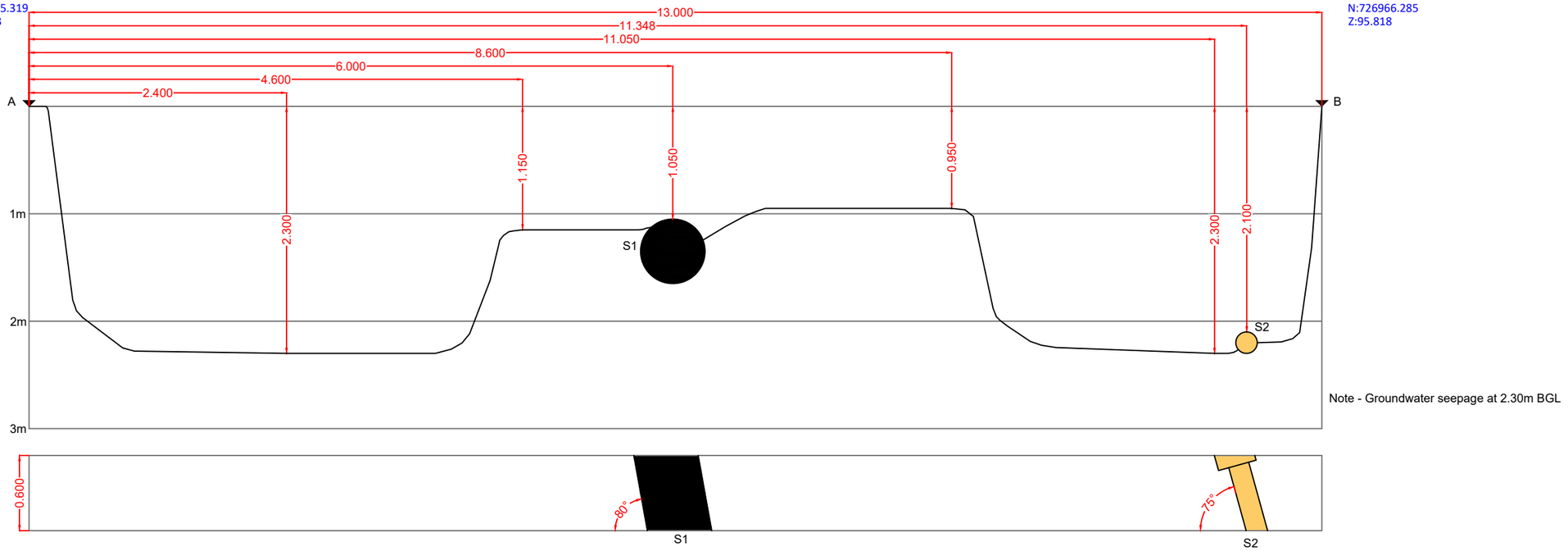
PROJECT:	15186-11-25 - Whitestown way, Tallaght
DRAWING No.:	ST-011D
DATE:	13/04/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	16/04/2026	S.F.	R.O.N

ST-012

E:708348.415
N:726965.319
Z:97.703

E:708335.351
N:726966.285
Z:95.818



Note - Groundwater seepage at 2.30m BGL

Service No	ø (m)	Colour - Material	Utility	Angle to trench	Coordinates		Level
					East	North	
S1	0.60	Black Steel	Surface Water	80°	708341.262	726966.061	94.738
S2	0.200	Asbestos Pipe	Sewer	75°	708337.300	726965.775	93.702

Surface from/to (m)		Surface type
0.00	12.05	Grass

Sample depth (m)	Sample type
-	-

From (m)	To (m)	Description
0.00	0.15	Dark brown slightly sandy slightly gravelly CLAY.
0.15	0.50	Light brown slightly sandy slightly gravelly CLAY.
0.50	1.00	Brown slightly sandy slightly gravelly CLAY.
1.00	1.60	Grey mottled light brown slightly sandy CLAY.
1.60	2.10	Grey mottled light brown slightly sandy CLAY with angular to subangular medium cobble content.
2.10	2.40	Dark grey SAND with subangular to subrounded low cobble content.

Groundwater	Y/N	Depth	Notes
	N		

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PROJECT:	15186-11-25 - Whitestown way, Tallaght
DRAWING No.:	ST-012D
DATE:	13/04/2026
CLIENT:	DBFL
SCALE:	NTS

Version:	Date:	Drawn By:	Checked By:
1	05/05/2026	S.F.	R.O.N

Whitestown Way Tallaght – Slit Trench Photographs

ST001

ST001

Whitestown Way Tallaght – Slit Trench Photographs

ST001A

ST001A

Whitestown Way Tallaght – Slit Trench Photographs

ST001A

ST001A

Whitestown Way Tallaght – Slit Trench Photographs

ST002

ST002

Whitestown Way Tallaght – Slit Trench Photographs

ST002A

ST002A

Whitestown Way Tallaght – Slit Trench Photographs

ST002A

ST002A

Whitestown Way Tallaght – Slit Trench Photographs

ST003

ST003

Whitestown Way Tallaght – Slit Trench Photographs

ST003

ST003

Whitestown Way Tallaght – Slit Trench Photographs

ST004

ST004

Whitestown Way Tallaght – Slit Trench Photographs

ST005

ST005

Whitestown Way Tallaght – Slit Trench Photographs

ST005A

ST005A

Whitestown Way Tallaght – Slit Trench Photographs

ST005A

ST005A

Whitestown Way Tallaght – Slit Trench Photographs

ST006

ST006

Whitestown Way Tallaght – Slit Trench Photographs

ST006A

ST006A

Whitestown Way Tallaght – Slit Trench Photographs

ST007

ST007

Whitestown Way Tallaght – Slit Trench Photographs

ST008

ST008

Whitestown Way Tallaght – Slit Trench Photographs

ST009

ST009

Whitestown Way Tallaght – Slit Trench Photographs

ST009A

ST009A

Whitestown Way Tallaght – Slit Trench Photographs

ST011

ST011

Whitestown Way Tallaght – Slit Trench Photographs

ST011A

ST011A

Whitestown Way Tallaght – Slit Trench Photographs

ST011B

ST011B

Whitestown Way Tallaght – Slit Trench Photographs

ST011B

ST011B

Whitestown Way Tallaght – Slit Trench Photographs

ST011C

ST011C

Whitestown Way Tallaght – Slit Trench Photographs

ST011C

ST011C

Whitestown Way Tallaght – Slit Trench Photographs

ST011D

ST011D

Whitestown Way Tallaght – Slit Trench Photographs

ST011D