



PROPOSED DEVELOPMENT

AT YSTALYFERA SCHOOL PHASE III, SWANSEA

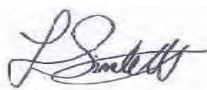
Ground Investigation Interpretive Report

Report No. Q0229

October 2020

DOCUMENT CONTROL

Contract Name: Proposed Development at Ystalyfera School Phase III
Contract Reference: Q0229
Report Type: Ground Investigation Interpretative Report
Report Reference: Q0229/IR
Date of Report Production: October 2020
Client: Andrew Scott Ltd

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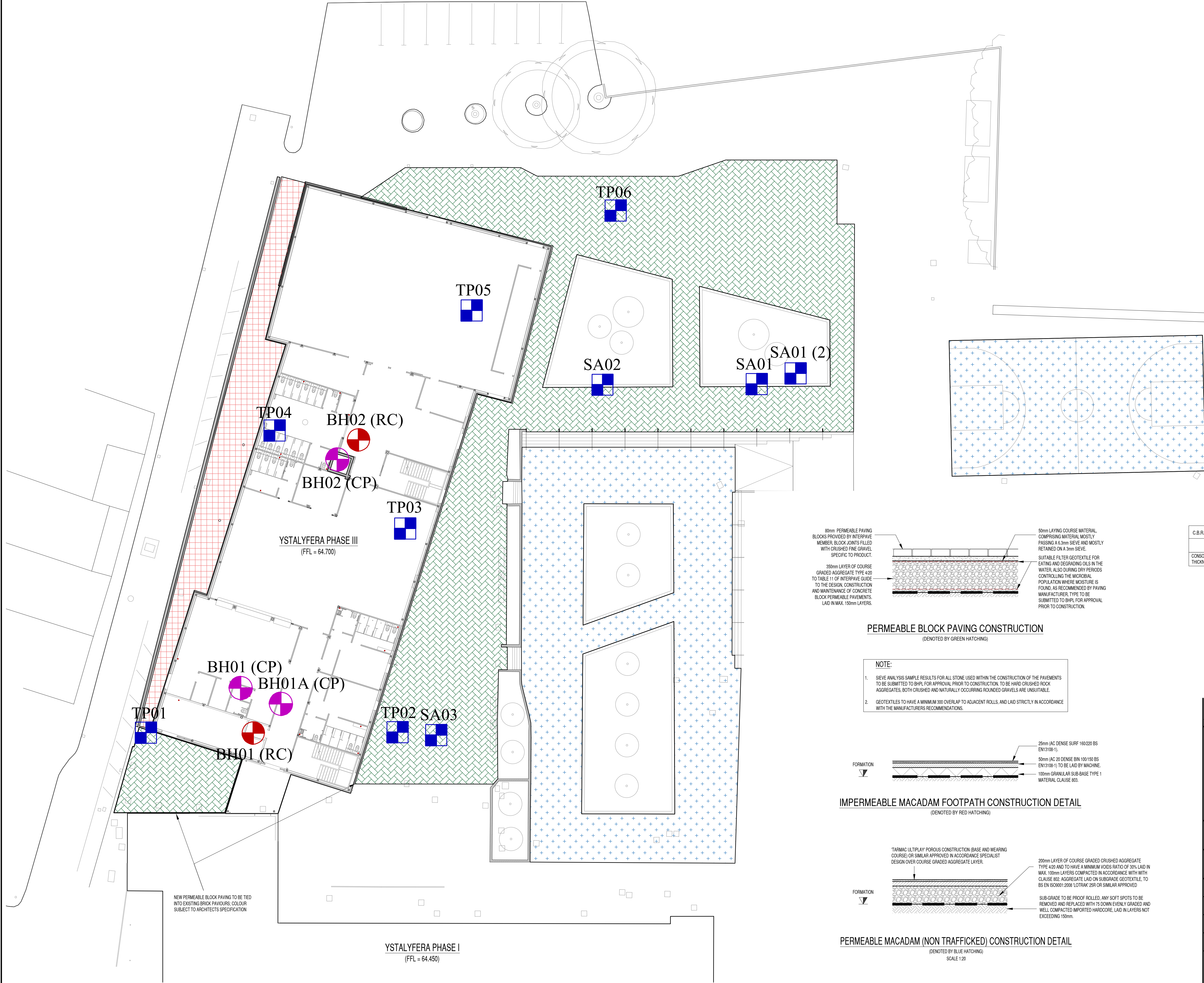
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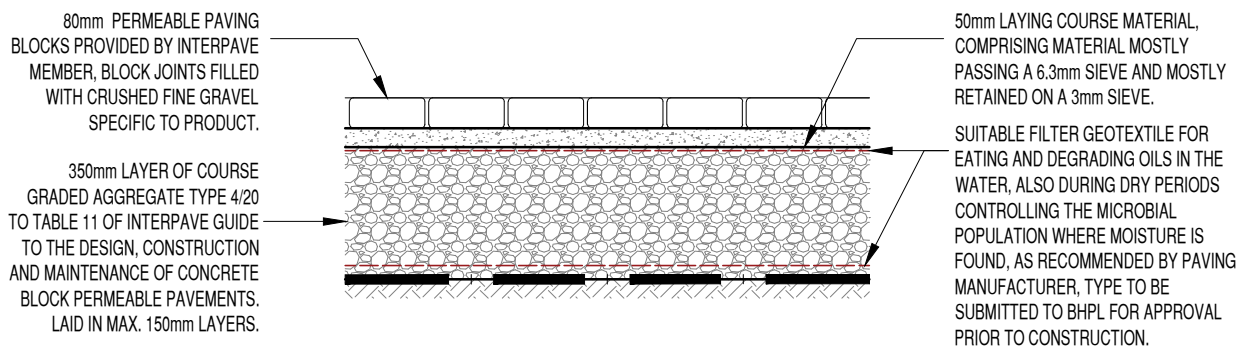


APPENDIX I – SITE PLANS AND PHOTOGRAPHS

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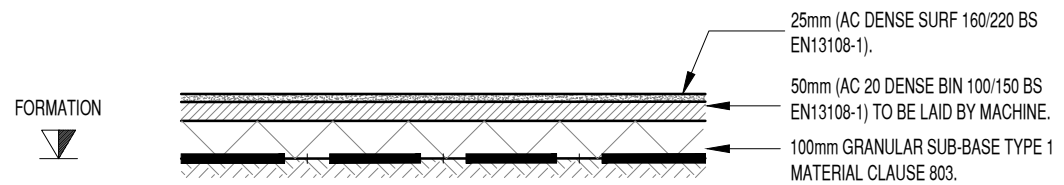


- NOTES**
- ALL CLAUSE REFERENCES ARE FROM D.O.T. PUBLICATION SPECIFICATION FOR HIGHWAY WORKS.
 - ALL FORMATIONS SHALL BE PROOF ROLLED ANY SOFT SPOTS REMOVED AND REPLACED WITH CLASS 8F2 TABLE 6/1 MATERIAL. COMPACTION SHALL BE IN ACCORDANCE WITH CLAUSE 6/12. THE MINIMUM CBR OF AREAS OF FILL MATERIAL SHALL BE 15% ALL FILL MATERIAL MUST BE APPROVED BY THE HIGHWAY AUTHORITY PRIOR TO USE. (S.H.W.).
 - IF ROADBASE IS LAID AND IS NOT COVERED IMMEDIATELY WITH THE BASECOURSE THEN THE ROADBASE SHOULD BE SPRAYED WITH A SEALING COAT OF BITUMINOUS SPRAY TO CLAUSE 920.
 - FORMATION LEVELS TO ALL EXTERNAL CONSTRUCTION MAKE UPS TO BE PROOF ROLLED TO REFUSAL. ANY SOFT SPOTS TO BE REMOVED AND REPLACED WITH 8F2. MAKE-UP LEVELS TO UNDERSIDE OF SUB-BASE FOLLOWING PROOF ROLLING IF NECESSARY. MINIMUM CLASS OF CAPPING TO BE 8F2.

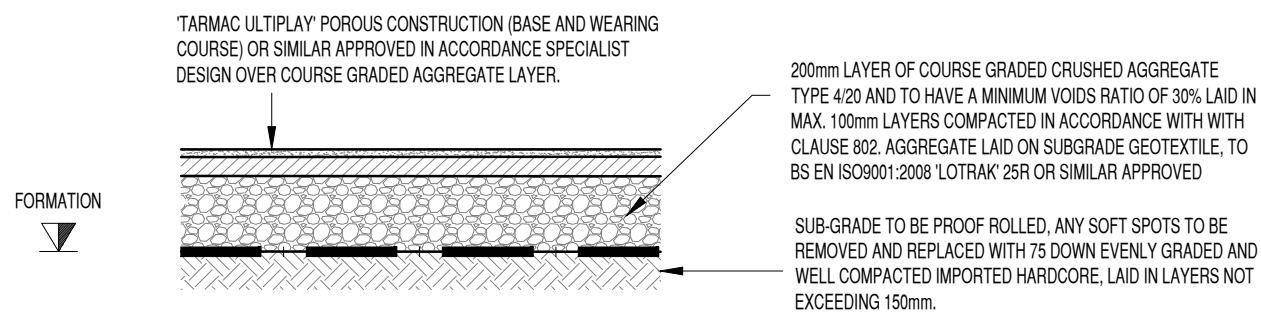


PERMEABLE BLOCK PAVING CONSTRUCTION
(DENOTED BY GREEN HATCHING)

- NOTE:**
- SIEVE ANALYSIS SAMPLE RESULTS FOR ALL STONE USED WITHIN THE CONSTRUCTION OF THE PAVEMENTS TO BE SUBMITTED TO BPHL FOR APPROVAL PRIOR TO CONSTRUCTION. TO BE HARD CRUSHED ROCK AGGREGATES. BOTH CRUSHED AND NATURALLY OCCURRING ROUNDED GRAVELS ARE UNSUITABLE.
 - GEOTEXTILES TO HAVE A MINIMUM 300 OVERLAP TO ADJACENT ROLLS. AND LAID STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.



IMPERMEABLE MACADAM FOOTPATH CONSTRUCTION DETAIL
(DENOTED BY RED HATCHING)



PERMEABLE MACADAM (NON TRAFFICKED) CONSTRUCTION DETAIL
(DENOTED BY BLUE HATCHING)
SCALE 1:20

C.B.R. VALUE	BELOW 2%		2%-5%		5%-15%	
	SUB-BASE+	CAPPING LAYER	SUB-BASE+	CAPPING LAYER	SUB-BASE	ABOVE 15%
CONSOLIDATED THICKNESS	150	600	150	350	275	SUB-BASE
					275	

CAPPING LAYER MATERIAL SHALL BE A MINIMUM OF CLASS 8F1 OR 8F2 MATERIAL AS SPECIFIED IN TABLE 6/10 OF THE SPECIFICATION FOR HIGHWAY WORKS. THE SUB-BASE & CAPPING LAYER SHALL EXTEND UNDER THE KERB.
ALL CLAUSES ARE FROM "DOT - SPECIFICATION FOR HIGHWAY WORKS" (S.H.W.).
CBR TEST RESULTS TO BE SUPPLIED TO ENGINEER PRIOR TO ANY ROAD CONSTRUCTION.

TABLE INDICATING ROAD CONSTRUCTION DEPTHS IN RELATION TO C.B.R. VALUES.

P03	RC	20/06/20	REVISED SITE PLAN
P02	RC	23/06/20	RETAINING WALLS TO WEST BOUNDARY ADDED
P01	RC	16/06/20	ISSUED FOR INFORMATION
Rev	By	Date	Revision

Bingham Hall
PARTNERSHIP LTD

Consulting Civil & Structural Engineers
5 Ty-Nant Court
Morganstown
Cardiff
CF15 5LW
Telephone (029) 2048 8558

Project Title
YSTALYFERA PHASE III WORKS

Drawing Title
EXTERNAL FINISHES LAYOUT & DETAILS

Drawing Status
INFORMATION

Architect
LAWRAY ARCHITECTS

Client
ANDREW SCOTT LTD.

Scale
1:200

Drawn
RC

Drawing Size
A1

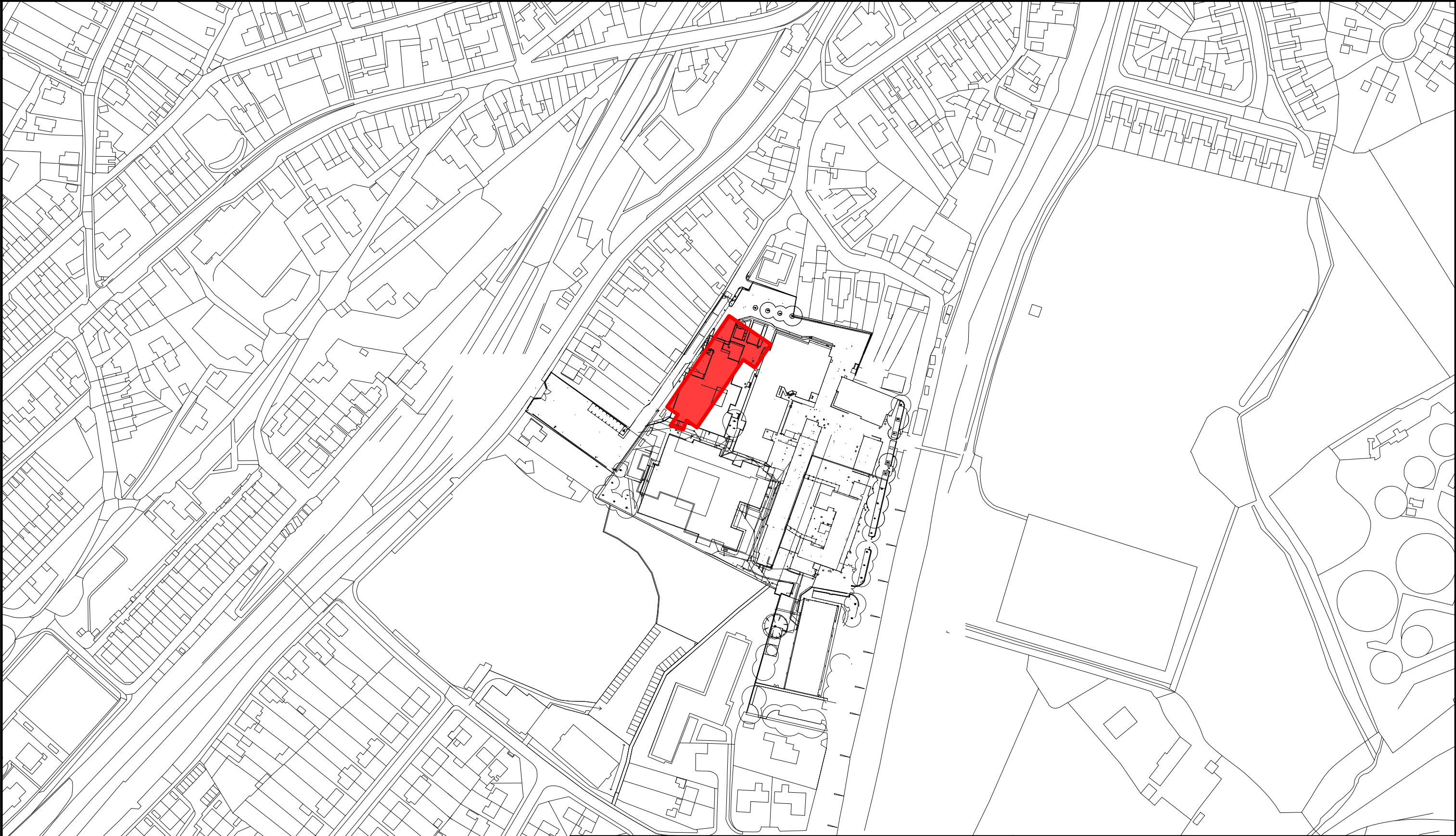
Date
JUNE 2020

Checked
DTH

Project No. - Originator - Volume - Level - Type - Role - Number
6685 - BHP - XX - 00 - DR - C - (60)001

Rev
P03

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				Bingham Hall PARTNERSHIP LTD		Project Title YSTALYFERA SCHOOL, PHASE 3			
				Consulting Civil & Structural Engineers 5 Ty-Nant Court Morganstown Cardiff CF15 8LW Telephone (029) 2048 8588		Drawing Title PROPOSED BUILDING LOCATION			
Scale		Drawn DB	Drawing Size A3	Date MAR 20	Checked DTH				
Project No.		Originator	Volume	Level	Type	Role	Number	Drawing Status	Rev
YG Y - BHP - XX - XX - DR - C - (SK)002								INFORMATION	
Rev	By	Date	Revision						



APPENDIX II – BOREHOLE LOGS

KEY TO BOREHOLE AND TRIAL PIT LOGS

m.A.O.D. metres Above Ordnance Datum.

SAMPLE AND TEST TYPES

U	Undisturbed driven tube sample - 102mm diameter, 450mm long.
P	Undisturbed pushed piston sample - 102mm diameter, 1000mm long.
TW	Undisturbed thin walled push in sample - 100mm diameter, 750mm long.
B	Bulk disturbed sample.
BLK	Block Sample
CBR	Heavy duty undisturbed sample - 154 mm diameter (CBR mould).
D	Small disturbed sample.
LB	Large Bulk disturbed sample (for earthworks testing)
C	Core sample
W	Water sample
G	Gas sample
ES	Environmental sample (soil)
j	Jar sample
t	Tub sample
p	Pot sample
s	Small sample
v	Vial sample
S	Standard Penetration Test using split spoon sampler. (See Note).
C	Standard Penetration Test using a solid 60 degree cone. (See Note).

NOTE: Where a single value is quoted this is the N value for 300 mm penetration following a seating drive of 150 mm. Where this full penetration is not achieved the number of blows is quoted for the penetration below the seating drive eg. 63/160 mm.
Where total penetration is less than the seating drive this is indicated by a + and the number of blows for total penetration is quoted eg. +50/75 mm.

HV	Hand Vane Test. Vane undrained shear strength, c_u , quoted in kPa.
V	Borehole Vane Test. Vane undrained shear strength, c_u , quoted in kPa.
FHT/RHT	Falling / Rising Head Permeability Test.

CORE RUN DETAILS

TCR	Total Core Recovery, %
SCR	Solid Core Recovery, %
RQD	Rock Quality Designation, %
FI	Fracture Index. NI - Non intact where > 25 No. per metre length.

WATER COLUMN SYMBOLS

	First water strike, second water strike etc.
	Standing water level after first strike, second strike etc.
	Seepage.

NOTE:
Legend symbols in accordance with BS 5930 (2015)



KEY TO BOREHOLE AND TRIAL PIT LOGS

MATERIAL LEGENDS

	Made Ground		Topsoil		Clay
	Gravel		Sand		Silt
	Peat		Boulders		Cobbles
	Chalk		Conglomerate		Volcaniclastic
	Asphalt		Void		Mudstone
	Siltstone		Sandstone		Limestone
	Ironstone		Mudstone / Siltstone		Breccia
	Coal		Coral		Bedrock
	Shale		Gypsum		Igneous (Coarse Grained)
	Igneous (Fine Grained)		Igneous (Medium Grained)		Metamorphic (Coarse Grained)
	Metamorphic (Fine Grained)		Metamorphic (Medium Grained)		

INSTALLATION / BACKFILL DETAILS

	Arisings		Concrete		Bentonite cement grout
	Bentonite seal		Filter		Pea Gravel
	Plain pipe		Slotted pipe		Piezometer / Standpipe tip

NOTE:
Legend symbols in accordance with BS 5930 (2015)

Contract : Ystalyfera School Phase III										Borehole No.		
Client : Andrew Scott										BH01 (CP)		
Dates : 7/9/20 - 7/9/20					Job Number : Q0229					Ground Level :		
Location : Phase III					Engineer : Bingham Hall					Coordinates:		

m B.G.L.	Samples		Insitu Test Results		Strata				Water	Install/ Backfill
	Depth	Type No. Blows	Depth	Test Results	Depth (Thick- ness)	Description	Legend	Depth (Thick- ness)		
0	0.00 - 0.50	B2				Made Ground: Black slightly silty sandy fine to coarse angular to sub-rounded mudstone sandstone concrete brick GRAVEL. Sand is fine to coarse. [DEMOLITION FILL]		(0.50)		
	0.30	ES1			(0.50)					
	0.50 0.50 - 1.00	ES3 B4			0.50	Yellow-brown slightly clayey sandy fine to coarse sub-rounded to well-rounded siltstone sandstone GRAVEL with high rounded sandstone cobble boulder content. [ALLUVIUM]		0.50		
1	1.00	ES5			(0.90)			(0.90)		
	1.20 - 1.40	B7	1.20	SPT (C) 50/20mm (24-1/0mm-50/20mm--)						
			1.40	SPT (C) 50/10mm (25/30mm-50/10mm--)	1.40	Borehole Terminated At 1.40mbgl Upon Refusal		1.40		
2										
3										

Hole Progress / Water Obs				Casing		Groundwater				Chiselling		
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
07/09/2020 08:00	0.00	0.00	0.00					No Groundwater Strike		1.20	1.40	1:30
07/09/2020 12:00	1.40	0.00	0.00									

Equipment / plant used: Dando 2000									
Remarks:									

	Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:	Operator:	Logged By.	Sheet No.	m Per Page	All measurements in metres unless otherwise stated	
		Samson Drilling	L. Simlett	1 Of 1	4		

Contract : Ystalyfera School Phase III										Borehole No.		
Client : Andrew Scott										BH01A (CP)		
Dates : 7/9/20 - 8/9/20					Job Number : Q0229					Ground Level :		
Location : Phase III					Engineer : Bingham Hall					Coordinates:		

m B.G.L.	Samples		Insitu Test Results		Strata				Water	Install/ Backfill
	Depth	Type No. Blows	Depth	Test Results	Depth (Thick- ness)	Description	Legend	Depth (Thick- ness)		
0					(0.50)	Made Ground: Black slightly silty sandy fine to coarse angular to sub-rounded mudstone sandstone concrete brick GRAVEL. Sand is fine to coarse. [DEMOLITION FILL]		(0.50)		
					0.50	Yellow-brown slightly clayey sandy fine to coarse sub-rounded to well-rounded siltstone sandstone GRAVEL with high rounded sandstone cobble boulder content. [ALLUVIUM]		0.50		
1					(1.00)			(1.00)		
			1.20	SPT (C) 50/75mm (21-4/5mm-47-3/0mm--)						
			1.50	SPT (I) 50/10mm (25/15mm-50/10mm--)	1.50	Borehole Terminated At 1.50mbgl Upon Refusal		1.50		
2										
3										

Hole Progress / Water Obs				Casing		Groundwater				Chiselling		
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
07/09/2020 13:00	0.00	0.00	0.00					No Groundwater Strike		1.20	1.40	1:00
07/09/2020 17:00	1.40	0.00	0.00									
08/09/2020 08:00	1.40	0.00	0.00									
08/09/2020 10:00	1.50	0.00	0.00									

Equipment / plant used: Dando 2000

Remarks:

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		Samson Drilling	L. Simlett	1 Of 1	4		

Contract : Ystalyfera School Phase III										Borehole No. BH02 (CP)		
Client : Andrew Scott												
Dates : 8/9/20 - 8/9/20				Job Number : Q0229				Ground Level :				
Location : Phase III				Engineer : Bingham Hall				Coordinates:				

m B.G.L.	Samples		Insitu Test Results		Strata				Water	Install/Backfill
	Depth	Type No. Blows	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)		
0	0.30	ES1			(0.50)	Made Ground: Black slightly silty sandy fine to coarse angular to sub-rounded mudstone sandstone concrete brick GRAVEL. Sand is fine to coarse. [DEMOLITION FILL]		(0.50)		
	0.50 0.50 - 1.00	ES2 B3			0.50	Yellow-brown slightly clayey sandy fine to coarse sub-rounded to well-rounded siltstone sandstone GRAVEL with high rounded sandstone cobble boulder content. [ALLUVIUM]		0.50		
1	1.00	ES4			(1.00)			(1.00)		
	1.20 - 1.50	B6	1.20	SPT (C) 15/0mm (10-14-15/0mm---)						
			1.50	SPT (C) 50/20mm (25/35mm-50/20mm---)	1.50	Borehole Terminated At 1.50mbgl Upon Refusal		1.50		
2										
3										

Hole Progress / Water Obs				Casing		Groundwater				Chiselling		
Date / Time	H. Depth	C. Depth	Water	Depth	Cas. Dia.	Struck	Rose To	Behaviour	Sealed	From	To	Hours
08/09/2020 12:00	0.00	0.00	0.00					No Groundwater Strike		1.20	1.50	1:30
08/09/2020 15:00	1.50	0.00	0.00									

Equipment / plant used: Dando 2000												
Remarks:												

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		Samson Frilling	L. Simlett	1 Of 1	4		

Contract : Ystalyfera School Phase III Client : Andrew Scott												Borehole No. BH01 (RC)	
Dates : 16/9/20 - 16/9/20 Location : Phase III						Job Number : Q0229 Engineer : Bingham Hall				Ground Level : Coordinates:			

m B.G.L.	Run Details				Fractures		Insitu Tests		Samples		Strata				Water	Install/ Backfill
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Test Results	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Depth (Thickness)		
0							0	SPT (C) 8 (4-3-2-2-2-2)				Drillers Description: GRAVEL COBBLES BOULDERS. [ALLUVIUM]				
1							1.5	SPT (C) 50 (6-8-8-11-21-10)								
2							3	SPT (C) 50/30mm (12-13/10mm-50/30mm--)								
3							4.5	SPT (C) 50/30mm (25/10mm-50/30mm--)								
4							6	SPT (C) 50/75mm (15-10/0mm-38-120mm--)			(12.00)			(12.00)		
5																
6																
7																
8																
9																

Hole Progress / Water Obs				Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns
16/09/2020 08:00	0.00	0.00	0.00							0.00 - 25.10	Air Mist	
16/09/2020 17:00	0.00	13.50										

Plant: MC 450P
Remarks:

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Contract : Ystalyfera School Phase III Client : Andrew Scott												Borehole No. BH01 (RC)	
Dates : 16/9/20 - 16/9/20 Location : Phase III						Job Number : Q0229 Engineer : Bingham Hall				Ground Level : Coordinates:			

m B.G.L.	Run Details					Fractures		Insitu Tests		Samples		Strata				Water	Install/ Backfill
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Test Results	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Depth (Thickness)			
10												Drillers Description: GRAVEL COBBLES BOULDERS. [ALLUVIUM]					
11																	
12							12	SPT (C) 50/135mm (9-12-21-29/60mm--)			12.00	Drillers Description: STIFF CLAYS & GRAVEL. [ALLUVIUM]		12.00			
13											(2.00)			(2.00)			
14							13.5	SPT (C) 50/15mm (25/10mm-50/15mm--)			14.00	Drillers Description: MUDSTONE & SANDSTONE BANDS. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]		14.00			
15											(3.10)			(3.10)			
16																	
17											17.10	Drillers Description: MUDSTONE & HARD DRILLING BANDS. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]		17.10			
18											(2.60)			(2.60)			
19																	
											19.70	Description on next page		19.70			

Hole Progress / Water Obs				Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns
				13.50	115.00	14.10						

Plant: MC 450P
Remarks:

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Contract : Ystalyfera School Phase III Client : Andrew Scott												Borehole No. BH01 (RC)	
Dates : 16/9/20 - 16/9/20 Location : Phase III						Job Number : Q0229 Engineer : Bingham Hall				Ground Level : Coordinates:			

m B.G.L.	Run Details					Fractures		Insitu Tests		Samples		Strata				Water	Install/ Backfill
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Test Results	Depth	Type No. Blows	Depth (Thick-ness)	Description	Legend	Depth (Thick-ness)			
20												Drillers Description: SANDSTONE. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]		(2.70)			
21																	
22																	
23											22.40	Drillers Description: MUDSTONE & HARD DRILLING BANDS. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]		22.40			
24											(2.70)			(2.70)			
25											25.10	Borehole Terminated At 25.10mbgl		25.10			
26																	
27																	
28																	
29																	

Hole Progress / Water Obs				Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns

Plant: MC 450P
Remarks:

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Contract : Ystalyfera School Phase III Client : Andrew Scott												Borehole No. BH02 (RC)	
Dates : 17/9/20 - 17/9/20 Location : Phase III					Job Number : Q0229 Engineer : Bingham Hall					Ground Level : Coordinates:			

m B.G.L.	Run Details				Fractures		Insitu Tests		Samples		Strata				Water	Install/ Backfill
	Core Run	TCR %	SCR %	RQD %	Min Avg	FI	Depth	Test Results	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Depth (Thickness)		
0							0					Drillers Description: GRAVEL COBBLES BOULDERS. [ALLUVIUM]				
1							1.5	SPT (C) 50/0mm (12-13/0mm-50/0mm--)								
2							3	SPT (C) 50/18mm (25/10mm-50/18mm--)								
3							4.5	SPT (C) 50/83mm (22-3/0mm-38-12/8mm--)								
4							6	SPT (C) 50/75mm (18-7/0mm-21-29/0mm--)			(12.00)			(12.00)		
5							7.5	SPT (C) 50/55mm (25/30mm-50/55mm--)								
6							9	SPT (C) 50/150mm (11-13-27-21-2/0mm--)								
7																
8																
9																

Hole Progress / Water Obs				Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns
17/09/2020 08:00	0.00	0.00	0.00							0.00 - 24.00	Air Mist	
17/09/2020 17:00	0.00	13.50										

Plant: MC 450P
Remarks:

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Contract : Ystalyfera School Phase III Client : Andrew Scott												Borehole No. BH02 (RC)	
Dates : 17/9/20 - 17/9/20 Location : Phase III						Job Number : Q0229 Engineer : Bingham Hall				Ground Level : Coordinates:			

m B.G.L.	Run Details					Fractures		Insitu Tests		Samples		Strata				Water	Install/ Backfill
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Test Results	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Depth (Thickness)			
10												Drillers Description: GRAVEL COBBLES BOULDERS. [ALLUVIUM]					
11																	
12												Drillers Description: STIFF CLAYS & CLAYS. [ALLUVIUM]					
13												Drillers Description: SANDSTONE & MUDSTONE BANDS. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]					
14																	
15																	
16																	
17																	
18																	
19												Drillers Description: MUDSTONE & HARD DRILLING BANDS. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]					

Hole Progress / Water Obs				Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns
				13.50	115.00							

Plant: MC 450P
Remarks:

	Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:	Operator: QGL	Logged By: G. Blades	Sheet No. 2 Of 3	m Per Page 10	All measurements in metres unless otherwise stated	
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Contract : Ystalyfera School Phase III Client : Andrew Scott												Borehole No. BH02 (RC)	
Dates : 17/9/20 - 17/9/20 Location : Phase III						Job Number : Q0229 Engineer : Bingham Hall				Ground Level : Coordinates:			

m B.G.L.	Run Details					Fractures		Insitu Tests		Samples		Strata				Water	Install/ Backfill
	Core Run	TCR %	SCR %	RQD %	Min Avg Max	FI	Depth	Test Results	Depth	Type No. Blows	Depth (Thickness)	Description	Legend	Depth (Thickness)			
20												Drillers Description: MUDSTONE & HARD DRILLING BANDS. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]					
21											21.00	Drillers Description: SANDSTONE & MUDSTONE BANDS. [SOUTH WALES MIDDLE COAL MEASURES FORMATION]		21.00			
22											(3.00)			(3.00)			
23																	
24											24.00	Borehole Terminated At 24.00mbgl		24.00			
25																	
26																	
27																	
28																	
29																	

Hole Progress / Water Obs				Casing		Groundwater				Flush		
Date / Time	H. Depth	C. Depth	Water	Depth	Diam.	Struck	Rose To	Behaviour	Sealed	Depth	Type	Returns

Plant: MC 450P
Remarks:

	Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:	Operator: QGL	Logged By: G. Blades	Sheet No. 3 Of 3	m Per Page 10	All measurements in metres unless otherwise stated	
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APPENDIX III – TRIAL PIT LOGS

KEY TO BOREHOLE AND TRIAL PIT LOGS

m.A.O.D. metres Above Ordnance Datum.

SAMPLE AND TEST TYPES

U	Undisturbed driven tube sample - 102mm diameter, 450mm long.
P	Undisturbed pushed piston sample - 102mm diameter, 1000mm long.
TW	Undisturbed thin walled push in sample - 100mm diameter, 750mm long.
B	Bulk disturbed sample.
BLK	Block Sample
CBR	Heavy duty undisturbed sample - 154 mm diameter (CBR mould).
D	Small disturbed sample.
LB	Large Bulk disturbed sample (for earthworks testing)
C	Core sample
W	Water sample
G	Gas sample
ES	Environmental sample (soil)
j	Jar sample
t	Tub sample
p	Pot sample
s	Small sample
v	Vial sample
S	Standard Penetration Test using split spoon sampler. (See Note).
C	Standard Penetration Test using a solid 60 degree cone. (See Note).

NOTE: Where a single value is quoted this is the N value for 300 mm penetration following a seating drive of 150 mm. Where this full penetration is not achieved the number of blows is quoted for the penetration below the seating drive eg. 63/160 mm.
Where total penetration is less than the seating drive this is indicated by a + and the number of blows for total penetration is quoted eg. +50/75 mm.

HV	Hand Vane Test. Vane undrained shear strength, c_u , quoted in kPa.
V	Borehole Vane Test. Vane undrained shear strength, c_u , quoted in kPa.
FHT/RHT	Falling / Rising Head Permeability Test.

CORE RUN DETAILS

TCR	Total Core Recovery, %
SCR	Solid Core Recovery, %
RQD	Rock Quality Designation, %
FI	Fracture Index. NI - Non intact where > 25 No. per metre length.

WATER COLUMN SYMBOLS

	First water strike, second water strike etc.
	Standing water level after first strike, second strike etc.
	Seepage.

NOTE:
Legend symbols in accordance with BS 5930 (2015)



KEY TO BOREHOLE AND TRIAL PIT LOGS

MATERIAL LEGENDS

	Made Ground		Topsoil		Clay
	Gravel		Sand		Silt
	Peat		Boulders		Cobbles
	Chalk		Conglomerate		Volcaniclastic
	Asphalt		Void		Mudstone
	Siltstone		Sandstone		Limestone
	Ironstone		Mudstone / Siltstone		Breccia
	Coal		Coral		Bedrock
	Shale		Gypsum		Igneous (Coarse Grained)
	Igneous (Fine Grained)		Igneous (Medium Grained)		Metamorphic (Coarse Grained)
	Metamorphic (Fine Grained)		Metamorphic (Medium Grained)		

INSTALLATION / BACKFILL DETAILS

	Arisings		Concrete		Bentonite cement grout
	Bentonite seal		Filter		Pea Gravel
	Plain pipe		Slotted pipe		Piezometer / Standpipe tip

NOTE:
Legend symbols in accordance with BS 5930 (2015)

Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. SA01										
Dates : 10/9/20 - 10/9/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall		Ground Level : Coordinates:												
m B.G.L.	Samples		Tests		Strata				WATER								
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)									
1	0.00 - 0.20	B1			0.20	Made Ground: Brown slightly silty sandy fine to coarse angular to sub-angular mudstone sandstone brick GRAVEL. Sand is fine to medium. [DEMOLITION MATERIAL]		(0.20)									
	0.20 - 0.20 - 0.50	ES1 B2			0.20	Made Ground: Brown soft to locally stiff slightly sandy gravelly CLAY/ SILT. sands is fine to medium. Gravel is fine to coarse angular sandstone. [RE-WORKED ALLUVIUM]				0.20							
	0.50 -	ES2			0.80		(0.80)										
					1.00	Brown slightly clayey sandy fine to coarse sub-angular to well rounded mudstone siltstone sandstone GRAVEL with abundant sub-rounded to well-rounded siltstone sandstone cobble/ boulder content. Sand is fine to medium. [ALLUVIUM]				1.00							
	1.30 - 1.60 1.30 -	B3 ES3			0.60			(0.60)									
					1.60	Trial Pit Terminated At 1.60mbgl Upon Refusal		1.60									
PLAN 			Groundwater: No Groundwater Strike Stability: Stable Shoring: N/A			Remarks :											
Equipment Used: 8t Tracked Excavator																	
			Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:			Operator: QGL		Logged By: L. Simlett		Sheet No. 1 Of 3		m Per Page 2		All measurements in metres unless otherwise stated			

Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA01

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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email:

Operator:

QGL

Logged By:

L. Simlett

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otherwise stated



Contract : Ystalyfera School Phase III Client : Andrew Scott		Trial Pit No. SA01
Dates : 10/9/20 - 10/9/20 Location : Phase III	Job Number : Q0229 Engineer : Bingham Hall	Ground Level : Coordinates:



	Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:	Operator: QGL	Logged By: L. Simlett	Sheet No. 3 Of 3	m Per Page	All measurements in metres unless otherwise stated	
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Contract : Ystalyfera School Phase III							Trial Pit No.	
Client : Andrew Scott							SA01 (2)	
Dates : 7/10/20 - 7/10/20				Job Number : Q0229		Ground Level :		
Location : Phase III				Engineer : Bingham Hall		Coordinates:		

m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)	
1					0.20	Made Ground: Brown slightly silty sandy fine to coarse angular to sub-angular mudstone sandstone brick GRAVEL. Sand is fine to medium. [DEMOLITION MATERIAL]		(0.20)	
					0.20	Made Ground: Brown soft to locally stiff slightly sandy gravelly CLAY/ SILT. sands is fine to medium. Gravel is fine to coarse angular sandstone. [RE-WORKED ALLUVIUM]		0.20	
					0.80			(0.80)	
					1.00	Brown slightly clayey sandy fine to coarse sub-angular to well rounded mudstone siltstone sandstone GRAVEL with abundant sub-rounded to well-rounded siltstone sandstone cobble/ boulder content. Sand is fine to medium. [ALLUVIUM]		1.00	
2					1.30			(1.30)	
					2.30	Trial Pit Terminated At 2.30mbgl Upon Refusal		2.30	

PLAN 		Groundwater: No Groundwater Strike Stability: N/A Shoring: N/A	Remarks :
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Equipment Used: 8t Tracked Excavator

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		Andrew Scott	L. Simlett	1 Of 3	3		

Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA01 (2)

Dates : 7/10/20 - 7/10/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Andrew Scott

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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA01 (2)

Dates : 7/10/20 - 7/10/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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otherwise stated



Contract : Ystalyfera School Phase III							Trial Pit No. SA02	
Client : Andrew Scott								
Dates : 10/9/20 - 10/9/20			Job Number : Q0229			Ground Level :		
Location : Phase III			Engineer : Bingham Hall			Coordinates:		

m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)	
1	0.00 - 0.20	B1			0.30	Made Ground: Stiff brown slightly silty slightly sandy gravelly CLAY with abundant angular sandstone brick cobble content. Sand is fine to medium. Gravel is fine to coarse angular to sub-rounded siltstone sandstone brick ceramic. [RE-WORKED GROUND]		(0.30)	
	0.20 - 0.20 - 0.50	ES1 B2			0.30 0.20	Made Ground: Brown soft to locally stiff slightly sandy gravelly CLAY/ SILT. sands is fine to medium. Gravel is fine to coarse angular sandstone. [RE-WORKED ALLUVIUM]		0.30 (0.20)	
	0.50 -	ES2			0.50	Brown slightly clayey sandy fine to coarse sub-angular to well rounded mudstone siltstone sandstone GRAVEL with abundant sub-rounded to well-rounded siltstone sandstone cobble/ boulder content. Sand is fine to medium. [ALLUVIUM]		0.50	
	1.00 - 1.50 1.00 -	B3 ES3			1.00			(1.00)	
					1.50	Trial Pit Terminated At 1.50mbgl Upon Refusal		1.50	

PLAN 		Groundwater: No Groundwater Strike Stability: Stable Shoring: N/A	Remarks :
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Equipment Used: 15t Tracked Excavator							
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		QGL	L. Simlett	1 Of 3	2		

Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA02

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA02

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. SA03		
Dates : 7/10/20 - 7/10/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall			Ground Level : Coordinates:			
m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)	
1					0.40	Made Ground: Brown grey slightly silty sandy fine to coarse angular to sub-angular mudstone siltstone sandstone brick GRAVEL. Sand is fine to coarse. [DEMOLITION FILL]		(0.40)	
					0.40	Brown slightly clayey slightly silty sandy fin eto coarse angular to well-rounded siltstone sandstone GRAVEL with high sub-rounded siltstone sandstone cobble/ boulder content. Sand is fine to coarse. [ALLUVIUM]		0.40	
					0.60			(0.60)	
					1.00	Trial Pit Terminated At 1.00mbgl Upon Refusal.		1.00	
PLAN 			Groundwater: No Groundwater Strike Stability: N/A Shoring: N/A			Remarks :			
Equipment Used: 8t Tracked Excavator									
			Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:			Operator: Andrew Scott		Logged By: L. Simlett	
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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA03

Dates : 7/10/20 - 7/10/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA03

Dates : 7/10/20 - 7/10/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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otherwise stated



Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. SA04		
Dates : 13/10/20 - 13/10/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall			Ground Level : Coordinates:			
m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)	
1					0.15	Soft brown slightly clayey gravelly SILT. Gravel is fine to coarse sub-angular siltstone sandstone. [TOPSOIL]		(0.15)	
					0.15	Brown slightly clayey slightly silty sandy fine to coarse sub-angular to well-rounded siltstone sandstone GRAVEL with high sub-rounded sandstone cobble/ boulder content. Sand is fine to coarse. [ALLUVIUM]		0.15	
					1.35			(1.35)	
					1.50	Trial Pit Termination At 1.50mbgl Upon Specification Depth		1.50	
PLAN 			Groundwater: No Goundwater Stike Stability: N/A Shoring: N/A			Remarks :			
Equipment Used: 8t Tracked Excavator									
			Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:			Operator: Andrew Scott		Logged By: M. Burke	
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Contract : Ystalyfera School Phase III Client : Andrew Scott		Trial Pit No. SA04
Dates : 13/10/20 - 13/10/20 Location : Phase III	Job Number : Q0229 Engineer : Bingham Hall	Ground Level : Coordinates:



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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

SA04

Dates : 13/10/20 - 13/10/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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M. Burke

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Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. SA05										
Dates : 13/10/20 - 13/10/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall			Ground Level : Coordinates:											
m B.G.L.	Samples		Tests		Strata				WATER								
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)									
1					0.15	Soft brown slightly clayey gravelly SILT. Gravel is fine to coarse sub-angular siltstone sandstone. [TOPSOIL]		(0.15)									
					0.15	Brown slightly clayey slightly silty sandy fine to coarse sub-angular to well-rounded siltstone sandstone GRAVEL with high sub-rounded sandstone cobble/ boulder content. Sand is fine to coarse. [ALLUVIUM]		0.15									
					1.25			(1.25)									
					1.40			Trial Pit Termination At 1.40mbgl Upon Specification Depth		1.40							
PLAN 			Groundwater: No Groundwater Strike Stability: N/A Shoring: N/A			Remarks :											
Equipment Used: 8t Tracked Excavator																	
			Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:			Operator: Andrew Scott		Logged By: M. Burke		Sheet No. 1 Of 3		m Per Page 2		All measurements in metres unless otherwise stated			

Contract : Ystalyfera School Phase III Client : Andrew Scott		Trial Pit No. SA05
Dates : 13/10/20 - 13/10/20 Location : Phase III	Job Number : Q0229 Engineer : Bingham Hall	Ground Level : Coordinates:



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Contract : Ystalyfera School Phase III		Trial Pit No.
Client : Andrew Scott		SA05
Dates : 13/10/20 - 13/10/20	Job Number : Q0229	Ground Level :
Location : Phase III	Engineer : Bingham Hall	Coordinates:



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		Andrew Scott	M. Burke	3 Of 3			

Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. TP01										
Dates : 10/9/20 - 10/9/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall			Ground Level : Coordinates:											
m B.G.L.	Samples		Tests		Strata				WATER								
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)									
1	0.00 - 0.50	B1				Made Ground: Asphalt over grey black slightly clayey fine to coarse angular to sub-angular limestone GRAVEL. [SUB-BASE]		(0.50)									
	0.20 -	ES1			0.50												
	0.50 - 1.40	B2			0.50	Orange-brown locally green soft to locally stiff slightly sandy slightly gravelly CLAY/SILT. Sand is fine to medium. Gravel is fine to coarse sub-angular to sub-rounded sandstone. [ALLUVIUM]		0.50									
	0.60 -	ES2															
	1.00 -	ES3			0.90			(0.90)									
	1.40 - 1.50	B3			1.40	Brown slightly clayey slightly silty sandy fine to coarse angular to well-rounded siltstone sandstone GRAVEL with high sub-rounded siltstone sandstone cobble/ boulder content. Sand is fine to coarse. [ALLUVIUM]		1.40									
				0.10					(0.10)								
					1.50	Trial Pit Terminated At 1.50mbgl Upon Refusal		1.50									
PLAN 			Groundwater: No Groundwater Strike Stability: Stable Shoring: N/A			Remarks :											
Equipment Used: 15t Tracked Excavator																	
			Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:			Operator: QGL		Logged By: L. Simlett		Sheet No. 1 Of 3		m Per Page 2		All measurements in metres unless otherwise stated			

Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP01

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Logged By:

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otherwise stated



Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP01

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Fax:
email:

Operator:

QGL

Logged By:

L. Simlett

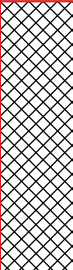
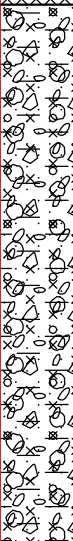
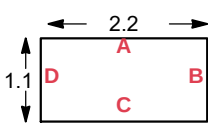
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Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. TP02										
Dates : 10/9/20 - 10/9/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall			Ground Level : Coordinates:											
m B.G.L.	Samples		Tests		Strata				WATER								
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)									
1	0.00 - 0.20	B1				Made Ground: Brown grey slightly silty sandy fine to coarse angular to sub-angular mudstone siltstone sandstone brick GRAVEL. Sand is fine to coarse. [DEMOLITION FILL]		(0.40)									
	0.20 -	ES1			0.40												
	0.40 - 0.50	B2			0.40	Brown slightly clayey slightly silty sandy fin eto coarse angular to well-rounded siltstone sandstone GRAVEL with high sub-rounded siltstone sandstone cobble/ boulder content. Sand is fine to coarse. [ALLUVIUM]		0.40									
	0.50 -	ES2			0.80			(0.80)									
	1.00 - 1.20	B3															
1.00 -	ES3																
					1.20	Trial Pit Terminated At 1.20mbgl Upon Refusal.		1.20									
PLAN 			Groundwater: No Groundwater Strike Stability: Stable Shoring: N/A			Remarks :											
Equipment Used: 15t Tracked Excavator																	
			Plas Newydd, Llanedi, Pontarddulais, Swansea SA4 0FQ Tel: 01554 744880 Fax: email:			Operator: QGL		Logged By: L. Simlett		Sheet No. 1 Of 3		m Per Page 2		All measurements in metres unless otherwise stated			

Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP02

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Fax:
email:

Operator:

QGL

Logged By:

L. Simlett

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All measurements in
metres unless
otherwise stated



Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP02

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. TP03	
Dates : 10/9/20 - 10/9/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall			Ground Level : Coordinates:		

m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thick-ness)	Description	Legend	Depth (Thick-ness)	
1	0.00 - 0.30	B1			0.30	Made Ground: Grey brown slightly silty slightly sandy fine to coarse angular to sub-angular siltstone sandstone concrete brick GRAVEL. Sand is fine to medium. [DEMOLITION FILL]		(0.30)	
	0.20 -	ES1							
	0.30 - 0.50	B2			0.30	Made Ground: Brown soft to locally stiff slightly sandy gravelly CLAY/ SILT. sands is fine to medium. Gravel is fine to coarse angular sandstone. [RE-WORKED ALLUVIUM]		0.30	
	0.50 -	ES2							
					0.70				(0.70)
					1.00	Brown slightly clayey slightly silty sandy fin eto coarse angular to well-rounded siltstone sandstone GRAVEL with high sub-rounded siltstone sandstone cobble/ boulder content. Sand is fine to coarse. [ALLUVIUM]		1.00	
					0.50				(0.50)
	1.30 - 1.50 1.30 -	B3 ES3			1.50	Trial Pit Terminated At 1.50mbgl Upon Refusal		1.50	

PLAN 		Groundwater: No Groundwater Strike Stability: Stable Shoring: N/A		Remarks :	
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Equipment Used: 15t Tracked Excavator					
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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP03

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP03

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. TP04		
Dates : 10/9/20 - 10/9/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall			Ground Level : Coordinates:			
m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)	
1	0.00 - 0.20	B1			0.20	Made Ground: Soft to firm black slightly silty slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse angular to sub-angular siltstone sandstone. [DEMOLITION FILL]		(0.20)	
	0.20 - 0.20 - 0.40	ES1 B2			0.20 0.20	Made Ground: Brown soft to locally stiff slightly sandy gravelly CLAY/ SILT. sands is fine to medium. Gravel is fine to coarse angular sandstone. [RE-WORKED ALLUVIUM]		0.20 (0.20)	
	0.40 -	ES2			0.40	Brown slightly clayey sandy fine to coarse sub-angular to well rounded mudstone siltstone sandstone GRAVEL with abundant sub-rounded to well-rounded siltstone sandstone cobble/ boulder content. Sand is fine to medium. [ALLUVIUM]		0.40	
					0.90			(0.90)	
	1.00 - 1.30 1.00 -	B3 ES3			1.30	Trial Pit Terminated At 1.30mbgl Upon Refusal		1.30	
PLAN 			Groundwater: No Groundwater Strike Stability: Stable Shoring: N/A			Remarks :			
Equipment Used: 15t Tracked Excavator									
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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP04

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP04

Dates : 10/9/20 - 10/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III Client : Andrew Scott							Trial Pit No. TP05	
Dates : 11/9/20 - 11/9/20 Location : Phase III			Job Number : Q0229 Engineer : Bingham Hall		Ground Level : Coordinates:			

m B.G.L.	Samples		Tests		Strata				WATER
	Depth	Type No.	Depth	Test Results	Depth (Thickness)	Description	Legend	Depth (Thickness)	
1	0.00 - 0.20	B1				Made Ground: Grey brown slightly silty slightly sandy fine to coarse angular to sub-angular siltstone sandstone concrete brick GRAVEL. Sand is fine to medium. [DEMOLITION FILL]		(0.40)	
	0.20 -	ES1			0.40				
	0.40 - 0.60	B2			0.40	Made Ground: Brown soft to locally stiff slightly sandy gravelly CLAY/ SILT. sands is fine to medium. Gravel is fine to coarse angular sandstone. [RE-WORKED ALLUVIUM]		0.40	
	0.50 -	ES2			0.20			(0.20)	
	1.00 - 1.20 1.00 -	B3 ES3			0.60	Brown slightly clayey sandy fine to coarse sub-angular to well rounded mudstone siltstone sandstone GRAVEL with abundant sub-rounded to well-rounded siltstone sandstone cobble/ boulder content. Sand is fine to medium. [ALLUVIUM]		0.60	
				0.90		(0.90)			
					1.50	Trial Pit Terminated At 1.50mbgl Upon Refusal		1.50	

PLAN 		Groundwater: No Groundwater Strike Stability: Stable Shoring: N/A	Remarks :
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Equipment Used: 15t Tracked Excavator

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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP05

Dates : 11/9/20 - 11/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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Contract : Ystalyfera School Phase III

Client : Andrew Scott

Trial Pit No.

TP05

Dates : 11/9/20 - 11/9/20

Job Number : Q0229

Ground Level :

Location : Phase III

Engineer : Bingham Hall

Coordinates:



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