

Office 11, Barle House, Oxford Court Manchester M2 3WQ email: contact@igeconsulting.co.uk web: www.igeconsulting.co.uk tel: 0161 934 9370			Borehole Log		Borehole No. BH03 Sheet 1 of 2
Project Name: Whitefield Fire Station			Co-ords: 380459E - 406486N		Project No.: 3866a
Location: Whitefield, Greater Manchester			Level (mAOD): 102.81		Rev.: 1.0
Client: Greater Manchester Combined Authority			Dates: 30/01/2023 - 31/01/2023		Logged By: AS
			Weather: Overcast		Checked By:
Well Borehole Shallow Shallow	Sample and In Situ Testing		Stratum Description		
	Depth (m)	Type	Results	Depth (m)	Level (mAOD)
	0.00 - 0.40	D	SPT	0.00	102.76
	0.40 - 1.20	D	SPT	0.40	102.41
	1.20 - 1.65	B	D	1.20	101.81
	1.65 - 2.00	D	SPT	1.65	101.81
	2.00 - 2.45	D	SPT	2.00	100.81
	2.45 - 2.80	D	SPT	2.45	100.81
	2.80 - 3.00	D	SPT	2.80	100.81
	3.00 - 3.45	D	SPT	3.00	99.81
	3.45 - 3.80	D	SPT	3.45	99.81
	3.80 - 4.00	D	SPT	3.80	99.81
	4.00 - 4.45	D	SPT	4.00	99.81
	4.45 - 4.80	D	SPT	4.45	99.81
	4.80 - 5.00	D	SPT	4.80	99.81
	5.00 - 5.45	D	SPT	5.00	99.81
	5.45 - 5.80	D	SPT	5.45	99.81
	5.80 - 6.00	D	SPT	5.80	99.81
	6.00 - 6.45	D	SPT	6.00	99.81
	6.45 - 6.80	D	SPT	6.45	99.81
	6.80 - 7.00	D	SPT	6.80	99.81
	7.00 - 7.50	D	SPT	7.00	95.31
	7.50 - 7.85	D	SPT	7.50	95.31
	7.85 - 8.00	D	SPT	7.85	95.31
	8.00 - 8.50	D	SPT	8.00	95.31
	8.50 - 9.00	D	SPT	8.50	95.31
	9.00 - 9.45	D	SPT	9.00	95.31
	9.45 - 9.80	D	SPT	9.45	95.31
	9.80 - 10.00	D	SPT	9.80	95.31
	10.00 - 10.50	D	SPT	10.00	95.31
	10.50 - 11.00	D	SPT	10.50	95.31
Remarks: Hardstanding corrd. Cable percussive borehole terminated at 19.95m bgl at target depth.			SPT Energy Ratio:		
			Compaction Notes:		
			Trench reinstatement:		
			TANK REMOVAL:		
			Compaction Notes:		

TEMPORARY FIRE STATION FOUNDATIONS

ACCOMMODATION BLOCK

LOADS FROM STRUCTURE TO THE GROUND ARE TRANSFERRED VIA A NUMBER OF FOOT LOADS (POINT LOADS). THE GROUND ON THIS SITE IS QUITE LIMITED FOR BEARING CAPACITY AND THE USE OF PAD FOUNDATIONS. THE GROUND CONDITIONS FOR A TEMPORARY STRUCTURE SUCH AS THIS MEANS A RAFT IS NEEDED. WHEN LOOKING AT THE RAFT DESIGN THE REQUIREMENTS WERE TO USE A 250MM SLAB WITH 1 LAYER OF A393 MESH. AFTER INSPECTION OF THE PHASE 2 BORE HOLE INFORMATION IN THIS AREA (BH03 ABOVE) THERE IS A 50MM ASPHALT COVERING 350MM CONCRETE SLAB. THE CURRENT SLAB CONDITIONS ARE DEEMED ACCEPTABLE TO ACT AS A BASE FOR THE TEMPORARY FIRE STATION. THE SUPPORT POSITIONS FOR THE ACCOMMODATION BLOCK SHOULD HAVE 300X300X12 STEEL SPREADER PLATES.

ANALYSIS FOR THE FOUNDATION WAS BASED ON THE WHITEFIELD LAYOUT USING THE BASE LOADS FROM THE RECENT CREWE PROJECT.

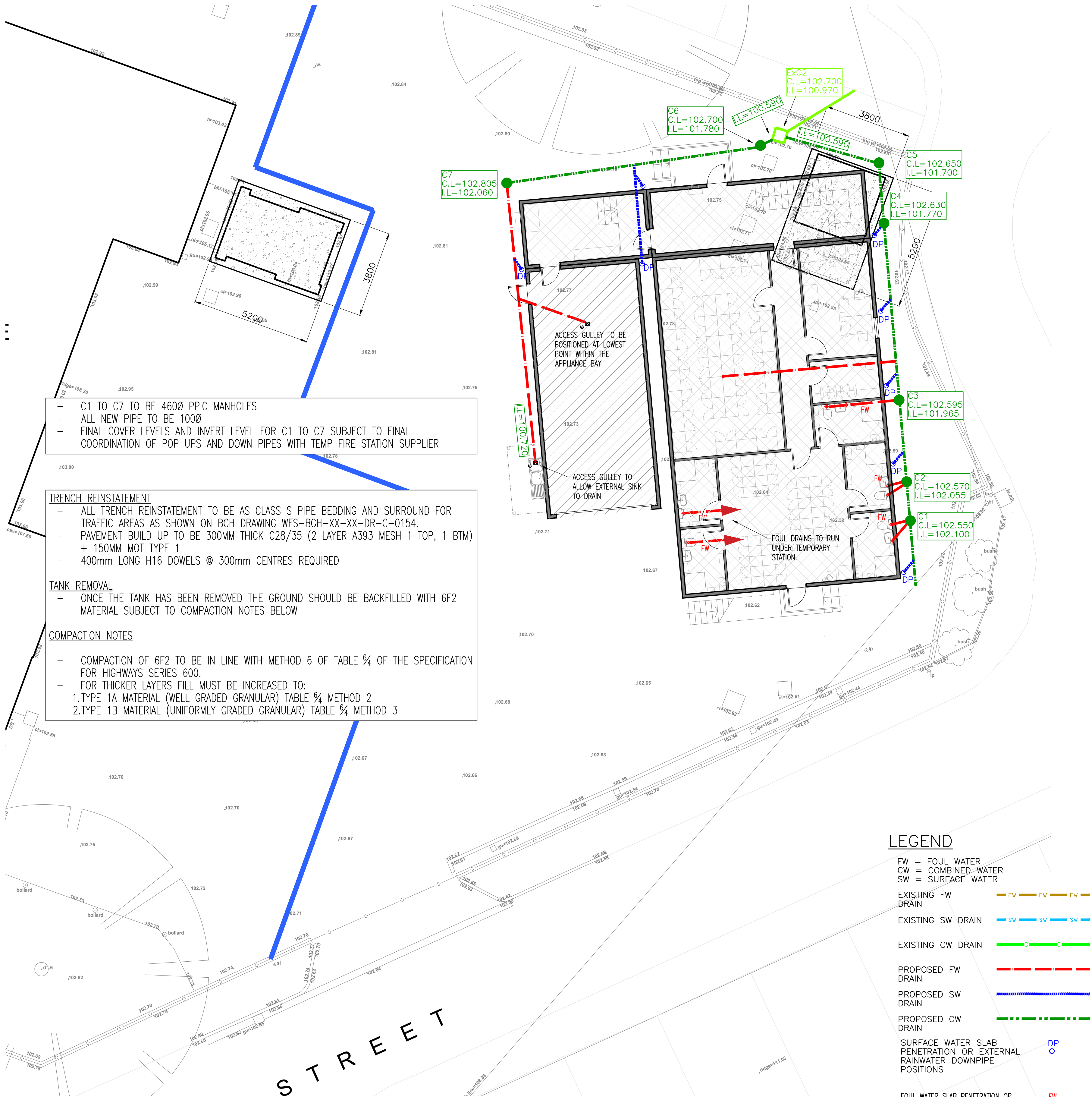
APPLIANCE BAY

APPLIANCE BAY IS A MUCH LIGHTER STRUCTURE AND THE MAIN REQUIREMENT IS TO MAKE SURE THERE IS SUFFICIENT ANCHORAGE FOR ANY HOLDING DOWN BOLT. THEREFORE, ANY HOLDING DOWN BOLT SHOULD MAKE CONNECTION TO THE CONCRETE SLAB BENEATH THE ASPHALT AND NOT TO THE ASPHALT.

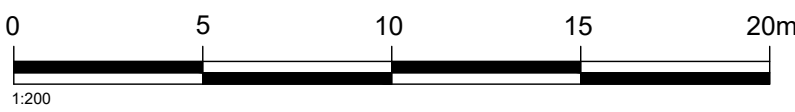
TEMPORARY ACCOMMODATION BLOCK TO BE SUPPORTED OF EXISTING HARD STANDING USING 300x300x12 SPREADER PLATES

TEMPORARY APPLIANCE BAY TO BE SUPPORTED OF EXISTING HARD STANDING. HOLDING DOWN BOLTS TO CONNECT TO CONCRETE NOT ASPHALT

WHERE BUILDINGS HAVE BEEN DEMOLISHED THE SLAB SHOULD BE REINSTEATED.
- NEW SLAB TO BE 250mm THICK WITH 1 LAYER OF A393 ON 150mm MOT TYPE 1



PROPOSAL IS SUBJECT TO ADDITIONAL TRIAL HOLES TO CONFIRM THE EXTENT OF THE CONCRETE SLAB INDICATED IN THE PHASE 2 REPORT



status

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All dimensions are to be checked on site by the contractor prior to proceeding with any work.

Hazard Identification

ref hazard date

N

ref	revision	by	date
P6	DRAINAGE LEVELS ADDED	DMC	19.01.24
P5	TEMP FIRE STATION POSITION AMENDED	AA	15.01.24
P4	TEMP FIRE STATION POSITION AMENDED	PA	05.01.24
P3	TRENCH REINSTATEMENT ADDED	PA	15.11.23
P2	TEMPORARY DRAINAGE ADDED	PA	14.11.23
P1	STAGE 4 DRAWING ISSUE	PA	08.11.23

client

ISG CONSTRUCTION LTD

project

WHITEFIELD FIRE STATION

drawing

TEMPORARY FIRE STATION FOUNDATION AND DRAINAGE REQUIREMENTS

drawn by	PA	date	NOV 23
checked by		date	
scale	1:100		A1
dwg no	WFS-BGH-02-XX-DR-C-0172	rev	P6

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