

## **REPORT NOTES**

### **General**

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

### **Soil chemical analysis:**

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

### **TPH analysis of water by method A-T-007:**

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

### **Electrical Conductivity of water by Method A-T-037:**

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

### **Asbestos:**

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by

sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable

for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

### **Predominant Matrix Codes:**

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

### **Secondary Matrix Codes:**

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

### **Key:**

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

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## Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR  
Tel. 0161 368 4921 email. ask@envlab.co.uk

**Client:** Sutcliffe, 18-20 Harrington Street, Liverpool, L2 9QA

**Project No:** 21/08459

**Project:** Prospect House, Manchester

**Date Received:** 05/08/2021 (pm)

**Clients Project No:** 30186LG

**Cool Box Temperatures (°C):** 25.6

NO DEVIATIONS IDENTIFIED with respect to sampling dates or containers received.

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples  $5 \pm 3^{\circ}\text{C}$ ), ISO 18400-120:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

## Envirolab Analysis Dates

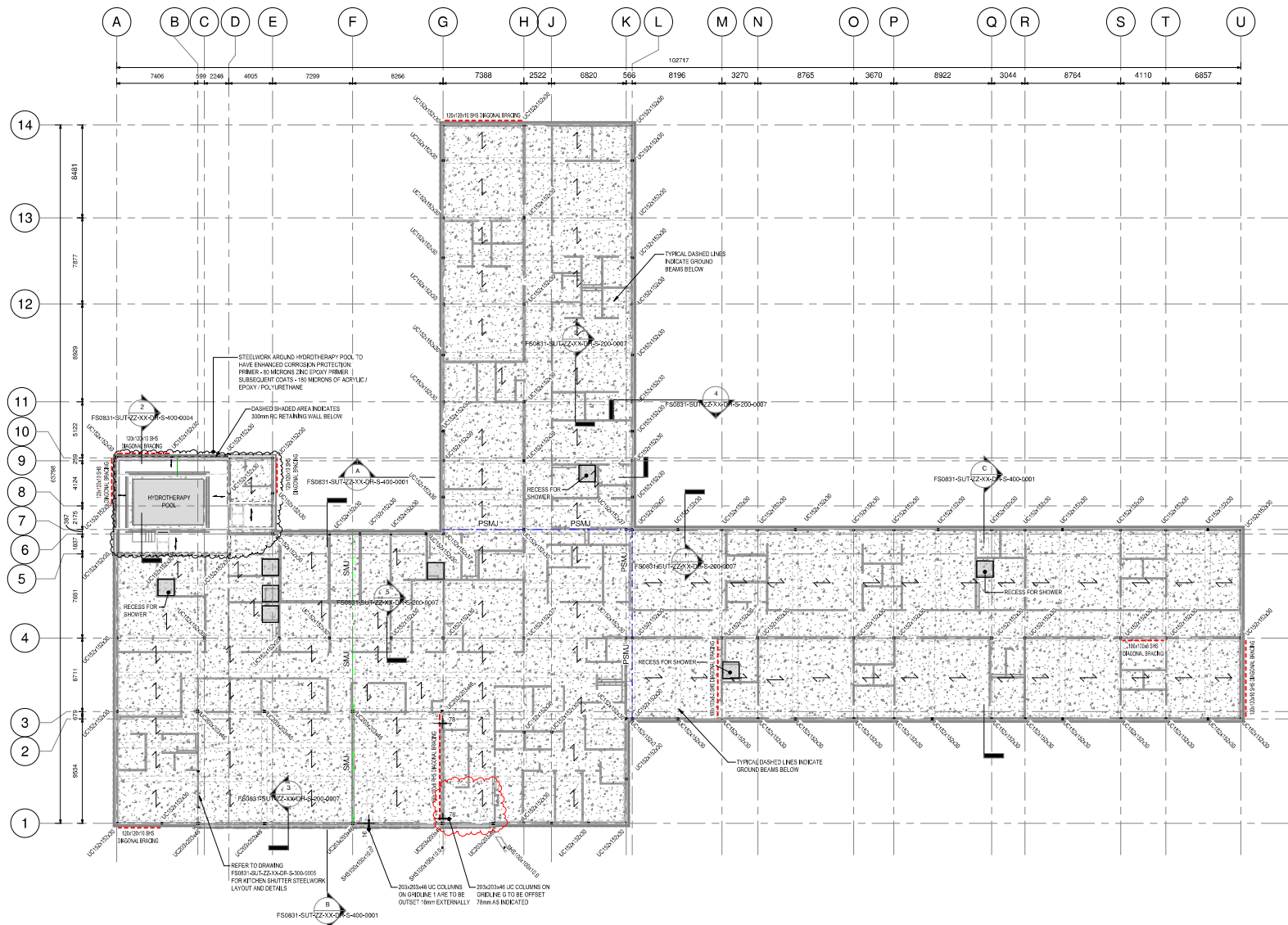
| Lab Sample ID          | 21/08459/1   | 21/08459/2   | 21/08459/3   | 21/08459/4   | 21/08459/5   | 21/08459/6   |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Client Sample No       |              |              |              |              |              |              |
| Client Sample ID/Depth | TS1 0.1-0.3m | TS2 0.1-0.2m | TS3 0.1-0.2m | SS5 0.3-0.4m | SS2 0.3-0.5m | SS3 0.3-0.5m |
| Date Sampled           | 04/08/21     | 04/08/21     | 04/08/21     | 04/08/21     | 04/08/21     | 04/08/21     |
| A-T-019s               | 09/08/2021   | 09/08/2021   | 09/08/2021   | 09/08/2021   | 09/08/2021   | 09/08/2021   |
| A-T-022s               | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   |
| A-T-024s               | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |
| A-T-026s               | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |
| A-T-027s               | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   |
| A-T-028s               | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   |
| A-T-029s               | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |
| A-T-031s               | 09/08/2021   | 09/08/2021   | 09/08/2021   | 09/08/2021   | 09/08/2021   | 09/08/2021   |
| A-T-032 OM             | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |
| A-T-040s               | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |
| A-T-042sTCN            | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   |
| A-T-044                | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   | 12/08/2021   |
| A-T-045                | 06/08/2021   | 06/08/2021   | 06/08/2021   | 06/08/2021   | 06/08/2021   | 06/08/2021   |
| A-T-050s               | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |
| A-T-054                | 12/08/2021   |              |              |              |              |              |
| A-T-055s               | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   | 11/08/2021   |
| A-T-S2-s               | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |
| Calc                   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   | 10/08/2021   |

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

**End of Report**

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## Appendix C – Foundation Design Drawings



THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR ALL TEMPORARY / PERMANENT PROPPING AND SHORING ON THE PROJECT. CONTRACTOR TO ENSURE THAT ALL PARTS OF THE STRUCTURE ARE ADAPTED PRIOR TO ANY COMMENCEMENT OF WORKS. ADVICE MAY BE SOUGHT FROM A SPECIALIST OR FROM THE STRUCTURAL ENGINEER

ALL DIMENSIONS, LEVELS AND SETTING OUT TO BE CONFIRMED WITH THE ARCHITECT PRIOR TO CONSTRUCTION

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS DRAWINGS

**General Notes**

DO NOT SCALE OFF THIS DRAWING

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS

ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE

ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS, STATUTORY HEALTH AND SAFETY C.O.M. REGULATIONS, RELEVANT CODES OF PRACTICE AND THE CURRENT EDITION OF THE BUILDING REGULATIONS.

FOR FINAL SETTING OUT INFORMATION RELATING TO GRID LINES AND WALL POSITIONS REFER TO THE ARCHITECT'S DRAWINGS.

**STRUCTURAL STEELWORK**

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, MECHANICAL & ELECTRICAL AND ARCHITECTS DRAWINGS AND SPECIFICATIONS. ALL GRID AND SETTING OUT DIMENSIONS AND LEVELS TO BE CHECKED AGAINST ARCHITECTS DRAWINGS. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH STATUTORY HEALTH AND SAFETY C.O.M. REGULATIONS, RELEVANT CODES OF PRACTICE AND THE CURRENT EDITION OF THE BUILDING REGULATIONS.

ALL STRUCTURAL STEELWORK SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE MSS (5TH EDITION); CE MARKING VERSION; THE PROJECT SPECIFICATION AND BS EN 1993-1-1:2005.

**STEELWORK GRADING** COLUMNS TO BE GRADE S355. BEAMS TO BE GRADE S235. UNLESS NOTED OTHERWISE

**NOTES TO SUB CONTRACTORS**

THE STEELWORK SUPPLIER IS TO SUBMIT DUPLICATE COPIES OF FABRICATION DRAWINGS TO THE ENGINEER FOR EXAMINATION AND COMMENT WELL IN ADVANCE OF FABRICATION (MIN. 5 WORKING DAYS)

ALL SUB CONTRACTORS FENESTRATION PRODUCTS E CLADDING, STONEWORK, RAINSCREENS, CURTAIN WALLING, SHEETING AND GLAZING ARE TO SPAN AND BE FIXED VERTICALLY TO STEEL BEAMS OR CONCRETE FLOORS. NO HORIZONTAL FIXINGS ARE PERMITTED UNLESS OTHERWISE AGREED WITH THE ENGINEER. HORIZONTAL FIXINGS MAY RESULT IN ADDITIONAL SECONDARY STEEL BEING REQUIRED.

THE STEELWORK SUB CONTRACTOR SHOULD ALLOW IN HIS TENDER FOR LIFTING WITH THE CHOSEN SUPPLIER OF MASONRY SUPPORT SYSTEMS AND WINDPOSTS/RAILS IF ANCON OR SIMILAR APPROVED TO DETERMINE THE FIXING REQUIREMENTS OF SUCH ITEMS BACK TO THE MAIN FRAME STEELWORK.

THE STEELWORK FABRICATOR SHOULD MAKE PROVISION FOR FIXING POINTS AS FOR THE CONNECTION OF SAFETY HARNESSES/EDGE PROTECTION WHERE NECESSARY TO SUIT THE PROPOSED ERECTION PROCEDURE IN ACCORDANCE WITH THE RELEVANT HEALTH AND SAFETY GUIDELINES.

THE STEELWORK FABRICATOR SHOULD ALSO INCLUDE IN HIS TENDER FOR THE PROVISION OF ERECTION LIFTING POINTS FOR THE SAFE ERECTION OF STEELWORK.

CONCRETE FOR FLOOR AND STONES SHALL BE MIN. C20/25 IN ACCORDANCE WITH BS 8500. ALL PAD STONES ARE TO BE FULLY BEDDED ON MORTAR OVER THEIR FULL AREA. THE GC IS TO SUPPLY SUFFICIENT LAMINATED MILD STEEL PLATE FOR LEVELLING OF ALL NEW STEELWORK.

ALL STEEL LEVELLING AND PACKING SHIMS TO BE PROVIDED BY STEELWORK SUPPLIER.

**CONNECTIONS** INCLUDING THE COLUMN BASEPLATES SHALL BE DESIGNED BY THE STEELWORK SUBCONTRACTOR. ALL BEAM CONNECTIONS TO HAVE FULL BEAM DEPTH END PLATES. MINIMUM CONNECTION TO BE C.M. GRADE 8.8 BOLTS ON THE EQUIVALENT IN WELD. FIRE PROTECTION TO ARCHITECT'S DETAILS.

ALL BOLTS ARE TO BE GRADE 8.8 TO BS 3692:2001, UNLESS NOTED OTHERWISE. HOT DIP SPUN GALVANIZED TO BS EN ISO 1461:1998.

ALL WELDING SHALL COMPLY WITH BS EN 1011-2:2001 AND BS EN 1011-1:1998 UNLESS AND ALL TIE-BOLTS SHALL HAVE A MIN THROAT THICKNESS OF 6mm UNLESS.

**MASONRY RESTRAINTS** ALL INTERNAL BLOCKWALLS TO BE RESTRAINED BY ANCON HR8 OR SIMILAR APPROVED HEAD RESTRAINTS ON SLEEVES FIXED TO US OF FLOOR/RATERS AT 750 CRS. WALLS BUILT UP TO US OF COMPOSITE FLOOR TO BE RESTRAINED BY STAGGERED ANGLES ANCON HR8.

ALL MEMBERS BUILT INTO OR RESTRAINING MASONRY SHALL BE CAPABLE OF ADJUSTMENT MINIMUM TOLERANCE +/- 10mm. NONE HORIZONTAL SUPPORT MEMBERS ARE TO BE TACK WELDED OR POSITIVELY FIXED IN POSITION ON COMPLETION OF ALIGNMENT.

**BUILDERS WORK** FOR DETAILS OF HOLES REQUIRED THROUGH FLOOR SLABS AND GROUND FLOOR SLAB REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND BUILDERS WORK.

BEAMS TO RECEIVE TIMBER WALL PLATES OR BEARERS SHALL BE DRILLED AT 450mm STAGGERED LONGITUDINAL CENTRES AND STANDARD FLANGE OR LEG CROSS CENTRES. HOLES TO BE 10mm DIAMETER TO RECEIVE M8 BOLTS (UNLESS NOTED OTHERWISE)

**STRUCTURAL FIRE PROTECTION** REFER PRIMARILY TO ARCHITECT'S SPECIFICATION. THE STRUCTURAL FRAME BEAMS, COLUMNS AND LOAD-BEARING WALLS SHALL BE RATED TO MIN. 60 MINUTES FIRE RESISTANCE. MEMBERS WITHIN FIRE COMPARTMENT WALLS MAY REQUIRE SUPPLEMENTARY FIRE PROTECTION. MEMBERS THAT SUPPORT ONLY THE ROOF MAY NOT REQUIRE FIRE PROTECTION.

ALL BEAMS THAT ARE CONCRETE ENCASED SHALL INCORPORATE A MINIMUM OF ONE LAYER D4 WRAPPING FABRIC AROUND BEAM. COVER TO WRAPPING FABRIC TO BE NOT LESS THAN 25mm UNLESS NOTED OTHERWISE

**CORROSION PROTECTION**

CORROSION PROTECTION SYSTEM TO COMPLY WITH BS EN ISO 12944 WHERE INTUMESCENT/DECORATIVE PAINT IS SPECIFIED BY THE ARCHITECT. COMPATIBILITY WITH CORROSION PROTECTION TO BE CHECKED BY STEEL FABRICATOR.

SURFACE PREPARATION: BLAST CLEAN TO SA 2½ IN ACCORDANCE WITH BS EN ISO 8501 (U.N.O.). CORROSION PROTECTION TO BE SHOP APPLIED IN LINE WITH THE ENVIRONMENTAL CATEGORIES BELOW:

ENVIRONMENT CATEGORY C1 (E.G. INSIDE HEATED DRY BUILDINGS)

NO CORROSION PROTECTION REQUIRED

ENVIRONMENT CATEGORY C4 (E.G. CHEMICAL PLANTS & SWIMMING POOLS)

80 MICRONS OF ZINC EPOXY PRIMER AND 180 MICRONS OF ACRYLIC/EPPOXY/POLYURETHANE

FOR STEELWORK IN EXTERNAL WALL CAVITIES WITH MIN. 40MM SEPARATION FROM THE OUTER LEAF: 80 MICRONS OF ZINC EPOXY PRIMER

FOR STEELWORK IN EXTERNAL WALL CAVITIES WHICH IS IN DIRECT CONTACT WITH THE OUTER LEAF: STEELWORK TO BE HOT DIP GALVANIZED TO BS EN ISO 1461 OR STAINLESS STEEL

ALL STRUCTURAL EXPOSED STEELWORK SECTIONS AND STEELWORK SECTIONS LOCATED BELOW GROUND LEVEL SHALL BE HOT DIP GALVANIZED TO BS EN ISO 1461 OR SURROUNDED IN CONCRETE TO GIVE 100mm MINIMUM COVER.

**FLOOR SLAB REINFORCED CONCRETE**

DESIGN SULPHATE CLASS: DS-1

ACED CLASSIFICATION: AC-22

ORIGIN CHEMICAL CLASS: C22-2

REINFORCED CONCRETE TO BE GRADE C28/35

MINIMUM CEMENT CONTENT: 300 kg/m³

WATER/CEMENT RATIO OF: 0.48

MINIMUM AGGREGATE SIZE: 20mm.

MINIMUM CONCRETE COVER TO BE 40mm TOP, 40mm BTM AND SIDES UNLESS NOTED OTHERWISE.

ALL REINFORCEMENT TO BE GRADE B500 OR B500K AS BS4449 AND TO BE CUT AND BENT TO BS8686.

CONTRACTOR TO USE APPROVED SPACER BLOCKS & REBAR SAFETY CAPS. CONTRACTOR MUST ENSURE ANY PROTRUDING BARS ARE TO HAVE SAFETY CAPS FITTED TO ENDS PRIOR TO NEXT LIFT/POUR CONNECTION.

**REINFORCEMENT MINIMUM LAPS FOR C28/35**

BOTTOM LAYER (GOOD BOND CONDITIONS):

B8: 320mm B10: 440mm

B12: 570mm B16: 630mm

B20: 1000mm B25: 1420mm

B32: 1810mm B40: 1640mm

**TOP LAYER (POOR BOND CONDITIONS):**

B8: 400mm B10: 670mm

B12: 610mm B16: 1190mm

B20: 1500mm B25: 2020mm

B32: 2580mm B40: 3510mm

ALL LAPS AND INTERSECTIONS OF BARS SHALL BE SECURELY CONNECTED WITH WALLEABLE BOND WIRE OF A SUITABLE SIZE OR OTHER APPROVED METHOD OF FIXING.

ALL REINFORCEMENT SHALL BE ACCURATELY PLACED, SECURED AND MAINTAINED IN POSITION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY STOOLS, CHAIRS AND SPACERS REQUIRED TO SUPPORT AND RESTRAIN REINFORCEMENT.

MESH REINFORCEMENT TO HAVE A MINIMUM LAP OF 400mm UNLESS NOTED OTHERWISE.

ALL CONCRETE TO BE ADEQUATELY VIBRO COMPACTED (ON PLACING) TO ENSURE THAT ALL VOIDS ARE REMOVED.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH ALL THE RELEVANT BRITISH STANDARD CODES OF PRACTICE.

| Rev | Description                                                      | Date     | By | Chkd |
|-----|------------------------------------------------------------------|----------|----|------|
| C06 | Recess for barrier railing removed as requested                  | 23.06.21 | SH | LW   |
| C05 | Reference to kitchen shutter steelwork drawing                   | 02.06.21 | SH | LW   |
| C04 | Area of beam and block slab updated to RC slab where indicated   | 16.04.21 | SH | LW   |
| C03 | Updated to architects comments                                   | 29.09.21 | SH | LW   |
| C02 | Design update in line with hazardous waste incineration strategy | 25.01.21 | SH | LW   |
| C01 | Construction basis                                               | 28.05.20 | SH | LW   |

Drawing Title: **CONSTRUCTION DRAWING**

**Sutcliffe**

Client: **Interserve**

Project: **Manchester SEND Procter House Blackley**

Drawing Title: **Ground Floor Layout GA**

|                                                     |                       |                |
|-----------------------------------------------------|-----------------------|----------------|
| Date: JUN, 2021                                     | Drawn By: S.HODGE     | Checked By: LW |
| Scale at A1: As indicated                           | Project Number: 30186 | Revision: C06  |
| Sheet Number: <b>FS0831-SUT-ZZ-GF-DR-S-200-0002</b> |                       |                |

## GROUND FLOOR LAYOUT

1 : 200

### GAS MEMBRANE NOTE:

GAS MEMBRANE TO BE DESIGNED IN ACCORDANCE WITH BS 8485:2015 WITH THE CLASSIFICATION BUILDING TYPE C REQUIRED TO ACHIEVE 4.5 POINTS FOR CHARACTERISTIC SITUATION 4 C54 LEVEL PROTECTION. DISPERSAL LAYER FOR VENTILATION LIKELY TO BE POLYSTYRENE TO ACHIEVE 1.5 POINTS

INDICATES SPAN 175mm C28/35 SUSPENDED SLAB WITH B500 MESH TOP AND BOTTOM

### STEELWORK ALLOWANCE

FOR TENDER PURPOSES ONLY PLEASE INCLUDE THE FOLLOWING STEELWORK ALLOWANCE:-

SECONDARY STEELWORK - 10%  
CONNECTIONS - 10%  
BRACING / LATERAL FRAMES - 10%

THE STEEL FABRICATOR IS TO ALLOW FOR USING BOTH THE STRUCTURAL ENGINEERS & ARCHITECTS DRAWINGS WHEN PREPARING FABRICATION DRAWINGS.

### NOTE:

SEE DRAWING FS0831-SUT-ZZ-XX-DR-S-200-0007 - GROUND FLOOR AND FOUNDATION DETAILS, FOR EXTERNAL AND INTERNAL GROUND FLOOR SECTIONS

### NOTE:

INDICATES SHOWER RECESS LOCATIONS REFER TO ARCHITECTS DRAWING FS0831-JMA-01-00-DR-A23-0001 FOR SETTING OUT

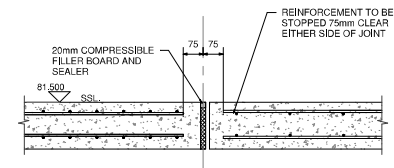
### NOTE:

ICL RESERVE THE RIGHT TO LOOK AT ALTERNATIVE SOLUTIONS IN RESPONSE TO THE FINDINGS FROM THE SURVEY FOLLOWING THE FIRE.

INDICATES SPAN OF BEAM AND BLOCK FLOOR TO MANUFACTURERS SPECIFICATION

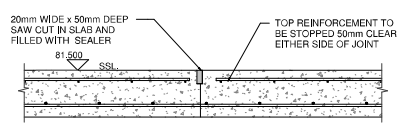
## PRIMARY SLAB MOVEMENT JOINT (PSMJ)

1 : 10



## SLAB MOVEMENT JOINT (SMJ)

1 : 10



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## Appendix D – MEC Environmental Ltd Gas Membrane Installation Validation Report

Gas Membrane Installation  
Validation Report  
Tilbury Douglas  
Prospect House SEN School  
Bank House Road  
Blackley  
Manchester  
M9 8LT

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## 1. INTRODUCTION

### 1.1 Purpose

ACS Linings are installing a gas protection membrane to the aforementioned site. MEC Environmental Ltd (MEC) has been appointed by ACS Linings to carry out independent validation of the installation of the membrane on the site as per our terms of engagement.

The **SOLE** purpose of the works undertaken by MEC Environmental is to provide independent inspections and a factual report as and when requested to assist the client in gaining regulatory approval with regards to the gas membrane installation. This is as per the scope of work section within our term's engagement.

### 1.2 Limitations

This report is limited to providing lines of evidence to the regulatory authority for the areas components inspected by MEC in support of the discharging of the relevant planning conditions only and cannot be used or relied upon for any other purpose. No professional liability shall be extended to any other parties by MEC, the report should explicitly not be relied on by any future vendor or tenant as proof that the gas protection measures are sufficient for the site and functioning at the time of purchase or start of any tenancy. Gas protection systems are not solely reliant on the gas membrane as points are scored under BS8485 for the floor slab, membrane and venting, these components work collaboratively to provide a gas protection system. This is as per the conditions within our term's engagement.

The report has been provided on the assumption that no damage or works that may have compromised the components and integrity of the gas membrane have been made after our inspections, failure to report any such occurrences will invalidate any liability and render the report and contents invalid. This is as per the conditions within our term's engagement.

This report has been prepared in accordance with the best available practice and the relevant guidance documents listed below of which the author of the report was a contributor and member of the steering committees:

**Mallett H, Wilson S, Corban M (2014)** "Good practice on the testing and verification of protection systems for buildings against hazardous ground gases". CIRIA Report C735

### 1.3 Compliance with Regulation 7 of Building Regulations

Regulation 7 of the building regulations requires that building work shall be carried out in a workmanlike manner. Approved document 7 suggests installation can comply with the regulation if workmanship is such that, where relevant, materials are adequately mixed or prepared and applied, used or fixed so as to perform adequately the functions for which they are intended.

A reasonable standard may be demonstrated by:

Compliance with a standard and independent certification – The relevant standard for gas protection measures is BS8485:2015 +A1:2019, Table 7 of the standard requires that gas membranes are verified as per CIRIA C735.

Past experience – The installers qualifications are checked by MEC Environmental to ensure that the installation supervisor holds the NVQ Level 2 in gas membrane installations.

Integrity Testing methods. – are carried out as prescribed in CIRIA C735, unless stated elsewhere  
Frequency of Visits – Were a validation plan has not been prepared then the frequency of visits is as per the instructions of the client, This report should be read in conjunction with the installers CQA report.

#### **1.4 Method of Inspection (Per Visit)**

All seams and non-seam areas of the available gas membrane were inspected/tested by the Validation Surveyor for identification of defects, protruding and penetrating objects, lack of subgrade support, overheating, holes, blisters, undispersed raw materials, scratches and gouges, and any sign of contamination by foreign matter.

Any portion of the gas membrane exhibiting a flaw or failing a visual inspection/testing was repaired. Several procedures exist for the repair of these areas. The final decision as to the appropriate repair procedure was agreed upon between the Validation Consultant and the Installer at the time of the repair and is noted in the survey sheets.

Major repairs are visually inspected/tested, repairs passing the inspection/testing were considered acceptable. In some cases minor repairs maybe carried out under contractor CQA and photographic evidence supplied to the verifier for inclusion in the report, this approach is in line with CIRIA C735.

#### **1.5 MEC Staff Competency**

All site inspections have been carried out by suitably qualified staff as defined in CIRIA C735, the qualification held by all MEC inspection surveyors is either the NVQ Level 4 in gas protection verification or the NVQ Level 2 in gas membrane installation

The author of this report is also a CL:AIRE accredited Specialist in Gas Protection Verification (SGPV) and holds both the NVQ Level 2 in gas membrane installation and the NVQ Level 4 in gas protection verification.

## **1.6 Conclusion**

During our inspections to the areas denoted in Appendix 1 (Site Surveys Sheets) we witnessed the installer carrying out the installation in a workmanlike manner, the materials were adequately prepared and applied, used and fixed so as to perform adequately the functions for which they are intended as per Regulation 7 of the building regulations. In instances where 100% of the installation has not been independently tested then this report should be read in conjunction with the gas membrane installers CQA records.

The installers all hold the NVQ Level 2 "Gas membrane Installations" qualification and as such are classed as a qualified and experienced installer. MEC Environmental have checked the CSCS Trade Cards of the installers, which confirms the holder has attained the qualification.



Signed

Date: 13/09/21

Michael Corban S.G.P.V.  
Director  
MEC Environmental Ltd

### Appendix 1- Site Survey Sheets

| Site name: Tilbury Douglas, Prospect house sen school, Bank house rd, Blackley, Manchester. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Units/ plots checked: : Phase one, A/G - 1/5 -1/6 |                                                                                                  |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Postcode: M9 8LT                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                   |                                                                                                  |
| Installers Name: ACS                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                   |                                                                                                  |
| Date: 09/06/2021                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                   |                                                                                                  |
| Inspection by: Keith Barsby                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Weather: 22°C Fine                                |                                                                                                  |
| Item                                                                                        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                   |                                                                                                  |
| Sub-floor void                                                                              | Full blanket of 25mm geocomposite vent former.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   |                                                                                                  |
| Ventilation Inlets and Outlets                                                              | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |                                                                                                  |
| Number Of Vents                                                                             | 22no "T" vent pipes with continuous slotted collection pipe installed                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                  |
| Materials used:                                                                             | Membrane – Juta 25mm gas vent mat                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                   |                                                                                                  |
|                                                                                             | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                       | Preformed Top hats <input type="checkbox"/> Yes   |                                                                                                  |
|                                                                                             | Double Sided Butyl Tape <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Preformed Corners <input type="checkbox"/> Yes    |                                                                                                  |
|                                                                                             | Others Please List: Slotted collection pipe, 300mm "T" pieces                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |                                                                                                  |
| Installation Notes                                                                          | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the vent mat which had been installed to a good standard. The vent mat has been installed across the full footprint of the area. At the opposing perimeter edges, a continuous slotted gas collection pipe has been installed with the vent mat slotted into the pipe.</p> |                                                   |                                                                                                  |
| Type of Joint                                                                               | Tape Joint <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Auto Weld <input type="checkbox"/>                | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                                                   | <input type="checkbox"/> Air Lance (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                   | <input type="checkbox"/> Probe Test (ASTM D4437)                                                 |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                   | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                             | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                             | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out: None

Have any defects identified above been satisfactorily rectified ☐ Yes ☐ No ☒ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

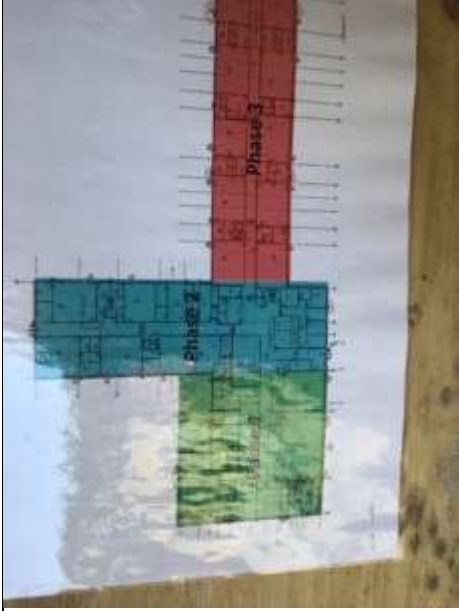
Signed: **Keith Barsby**

Date: **09/06/2021**

Area Inspected



Photo 09/06/2021



Floor plan



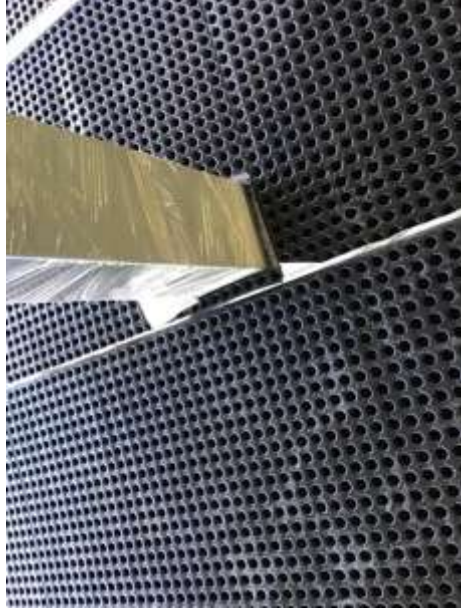
Overview



Vent into slotted collection pipe



Vent mat around pipe



Vent mat around stanchion



Inlet/outlet pipe

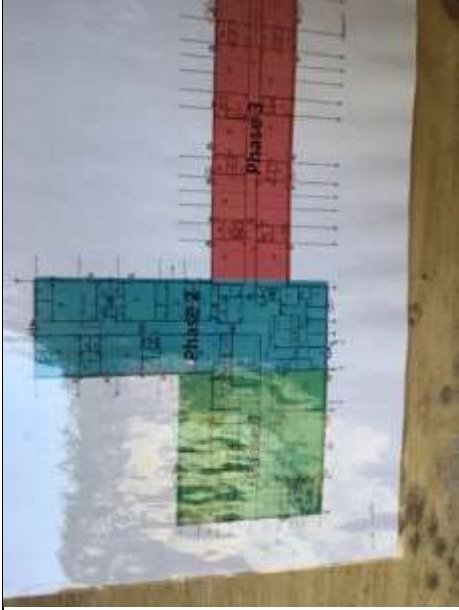
| Site name: Tilbury Douglas, Prospect house sen school, Bank house rd, Blackley, Manchester. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Units/ plots checked: : Phase one, A/G - 1/5 -1/6                                                |                                                                                                  |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Postcode: M9 8LT                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                                                                                                  |
| Installers Name: ACS                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                                                                                                  |
| Date: 10/06/2021                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                                                                                                  |
| Inspection by: Keith Barsby                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Weather: 20°C Fine                                                                               |                                                                                                  |
| Item                                                                                        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |                                                                                                  |
| Sub-floor void                                                                              | Full blanket of 25mm geocomposite vent former. (Previously Inspected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                                                                                                  |
| Ventilation Inlets and Outlets                                                              | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |                                                                                                  |
| Number Of Vents                                                                             | 22no Previously Inspected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                  |
| Materials used:                                                                             | Membrane – ACS Gas Membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |                                                                                                  |
|                                                                                             | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Preformed Top hats <input type="checkbox"/> Yes                                                  |                                                                                                  |
|                                                                                             | Double Sided Butyl Tape <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Preformed Corners <input type="checkbox"/> Yes                                                   |                                                                                                  |
|                                                                                             | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                  |                                                                                                  |
| Installation Notes                                                                          | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the membrane that has been laid to the marked up plan below, the membrane has been installed to a good standard. Along gridlines 1/A, 1/G, 6/E, the membrane has been turned up the face of the timber shuttering.</p> <p>*Around the pool area, the membrane has been joined using SAGM to the membrane that has been previously installed under the pool base and wall. The previously installed membrane under the pool base and around the pool walls was not inspected by MEC Environmental as it had been covered at the time of our inspection and therefore no comment can be made on this area. All pipe penetrations and stanchions have been sealed using SAGM.</p> |                                                                                                  |                                                                                                  |
| Type of Joint                                                                               | Tape Joint <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Auto Weld <input type="checkbox"/>                                                               | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                                                   | <input type="checkbox"/> Air Lance (ASTM D4437) <input checked="" type="checkbox"/> Probe Test (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |                                                                                                  |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                   | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                                                                                                  |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b><u>(List any defects to detailing work and joints):</u></b></p> <p>During our inspection the following defects and repairs were carried out: None</p> <p>Have any defects identified above been satisfactorily rectified <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p>The Area Inspected has passed inspection <input checked="" type="checkbox"/></p> <p>The Area has failed inspection and a corrective action sheet has been left with the contractor <input type="checkbox"/></p> <p>The Area is incomplete as detailed above <input type="checkbox"/></p> <p>Signed: <b>Keith Barsby</b> Date: <b>10/06/2021</b></p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Area Inspected



Photo 10/06/2021



Floor plan



Overview



Multiple pipe seals using SAGM



Tape joint



Perimeter edge



Stanchion seal using SAGM

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                                                                                                  |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Site name: Tilbury Douglas, Prospect house sen school, Bank house rd, Blackley, Manchester. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Units/ plots checked: : Phase 2 gridlines G/L - 7/14 |                                                                                                  |
| Postcode: M9 8LT                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                                                                                                  |
| Installers Name: ACS Linings                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                                                                                                  |
| Date: 16/06/2021                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                                                                                                  |
| Inspection by: Keith Barsby                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Weather: 26°C Fine                                   |                                                                                                  |
| Item                                                                                        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |                                                                                                  |
| Sub-floor void                                                                              | Full blanket of 25mm geocomposite vent former                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |                                                                                                  |
| Ventilation Inlets and Outlets                                                              | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |                                                                                                  |
| Number Of Vents                                                                             | 19no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                                  |
| Materials used:                                                                             | Membrane – N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |                                                                                                  |
|                                                                                             | Self-Adhesive Membrane <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Preformed Top hats <input type="checkbox"/> Yes      |                                                                                                  |
|                                                                                             | Double Sided Butyl Tape <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                     | Preformed Corners <input type="checkbox"/> Yes       |                                                                                                  |
|                                                                                             | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      |                                                                                                  |
| Installation Notes                                                                          | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the vent mat which had been installed to a good standard. The vent mat has been installed across the full footprint of the area. At the opposing perimeter edges, a continuous slotted gas collection pipe has been installed with the vent mat slotted into the pipe</p> |                                                      |                                                                                                  |
| Type of Joint                                                                               | Tape Joint <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Auto Weld <input type="checkbox"/>                   | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                                                   | <input type="checkbox"/> Air Lance (ASTM D4437) <input type="checkbox"/> Probe Test (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |                                                                                                  |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                   | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                             | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                             | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out:

Have any defects identified above been satisfactorily rectified ☐ Yes ☐ No ☒ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

Signed: **Keith Barsby**

Date: **16/06/2021**

Area Inspected

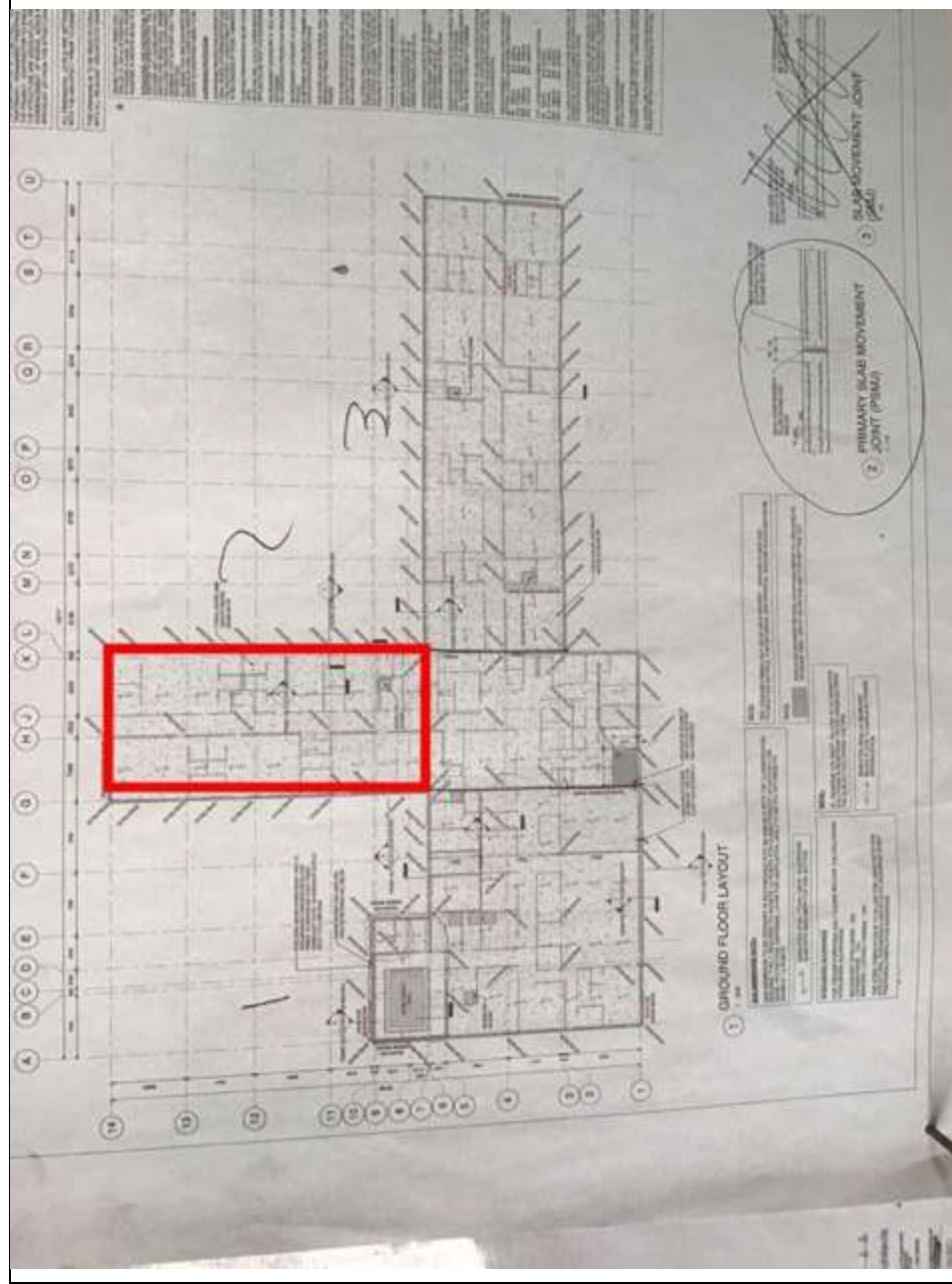
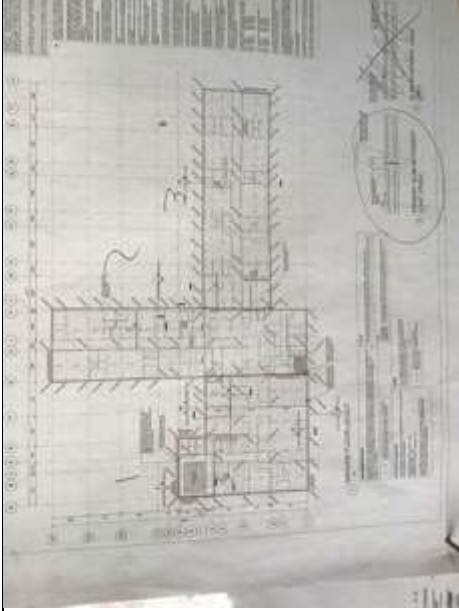


Photo 16/06/2021



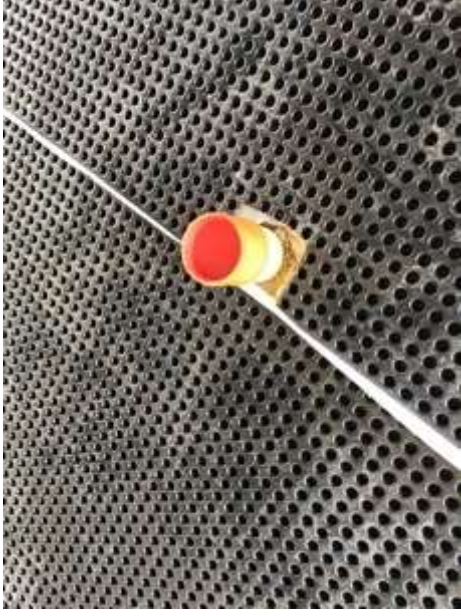
Floor plan



Overview



Vent mat around stanchion



Vent mat around pipe



Vent mat inserted into slotted collection pipe



Perimeter edge beam



Vent mat inserted into slotted collection pipe



"T" piece with slotted pipe

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                                  |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Site name: Tilbury Douglas, Prospect house sen school, Bank House Rd, Blackley, Manchester. |                                                                                                                                                                                                                                                                                                                                                                                                         | Units/ plots checked: : Phase 2 gridlines G/L - 7/14                |                                                                                                  |
| Postcode: M9 8LT                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                                  |
| Installers Name: ACS Linings                                                                |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                                  |
| Date: 21/06/2021                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                                  |
| Inspection by: Keith Barsby                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                         | Weather: 17°C Overcast                                              |                                                                                                  |
| Item                                                                                        | Comments                                                                                                                                                                                                                                                                                                                                                                                                |                                                                     |                                                                                                  |
| Sub-floor void                                                                              | Full blanket of 25mm geocomposite vent former (Previously Inspected)                                                                                                                                                                                                                                                                                                                                    |                                                                     |                                                                                                  |
| Ventilation Inlets and Outlets                                                              | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                                                                                                  |
| Number Of Vents                                                                             | 19no (Previously Inspected)                                                                                                                                                                                                                                                                                                                                                                             |                                                                     |                                                                                                  |
| Materials used:                                                                             | Membrane – ACS Gas membrane                                                                                                                                                                                                                                                                                                                                                                             |                                                                     |                                                                                                  |
|                                                                                             | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                          | Preformed Top hats <input type="checkbox"/> Yes                     |                                                                                                  |
|                                                                                             | Double Sided Butyl Tape <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                         | Preformed Corners <input type="checkbox"/> Yes                      |                                                                                                  |
|                                                                                             | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |                                                                                                  |
| Installation Notes                                                                          | <b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b><br>MEC Environmental carried out a thorough visual inspection of the membrane. The membrane has been installed across the area denoted above. At the perimeter edge along gridline 14 the membrane has been turned up the face of the timber shutter. |                                                                     |                                                                                                  |
| Type of Joint                                                                               | Tape Joint <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                          | Auto Weld <input type="checkbox"/>                                  | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                                                   | <input type="checkbox"/> Air Lance (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                         |                                                                     | <input checked="" type="checkbox"/> Probe Test (ASTM D4437)                                      |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                   | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                          |                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                           |                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                  |                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                             |                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                                              |                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A                                                                     |

**(List any defects to detailing work and joints):**

At the perimeter edge along gridline G, the membrane has been damaged during the installation of the timber shuttering and requires repairing, all other work in this area has passed inspection

Signed: **Keith Barsby**

Date: **21/06/2021**

Area Inspected

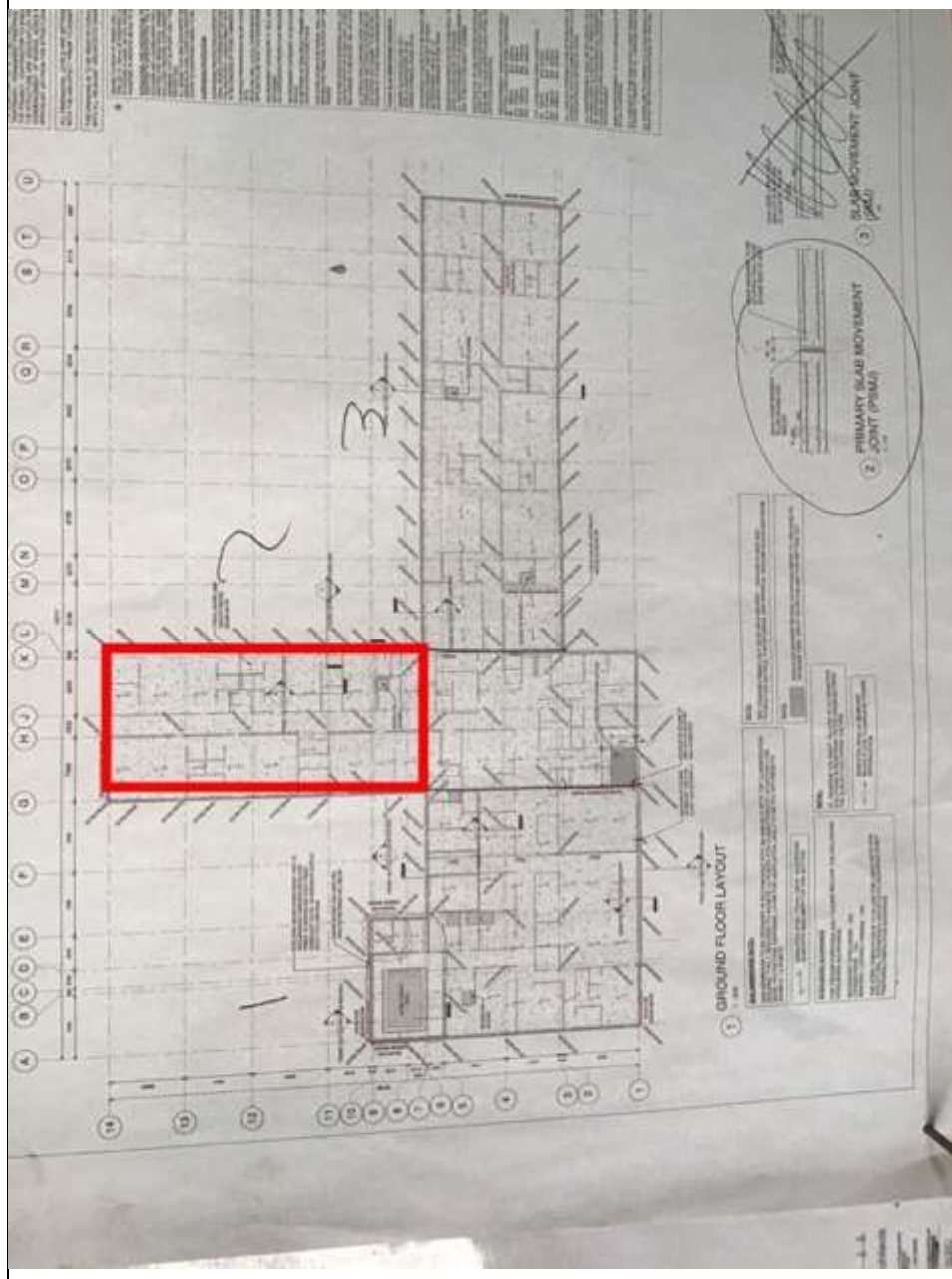
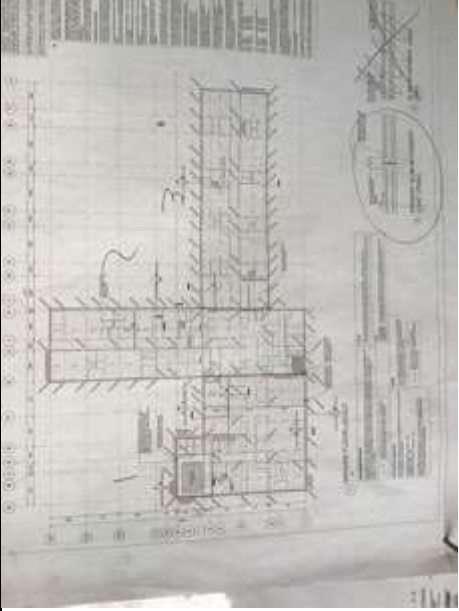


Photo 21/06/2021



Floor plan



Overview



Pipe seal using SAGM



SAGM being pick tested around a stanchion



Stanchion seal using SAGM



Perimeter edge



Damage to perimeter edge

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |                                                                                                  |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Site name: Tilbury Douglas, Prospect House SEN School, Bank House Rd, Blackley, Manchester. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Units/ plots checked: : Phase 2 gridlines G/L - 177<br>(venting) |                                                                                                  |
| Postcode: M9 8LT                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |                                                                                                  |
| Installers Name: ACS Linings                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |                                                                                                  |
| Date: 22/06/2021                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |                                                                                                  |
| Inspection by: Keith Barsby                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Weather: 20°C Fine                                               |                                                                                                  |
| Item                                                                                        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                  |                                                                                                  |
| Sub-floor void                                                                              | Full blanket of 25mm geocomposite vent former                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                  |
| Ventilation Inlets and Outlets                                                              | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                                                                                                  |
| Number Of Vents                                                                             | 4no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                  |                                                                                                  |
| Materials used:                                                                             | Membrane – N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |                                                                                                  |
|                                                                                             | Self-Adhesive Membrane <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Preformed Top hats <input type="checkbox"/> Yes                  |                                                                                                  |
|                                                                                             | Double Sided Butyl Tape <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                         | Preformed Corners <input type="checkbox"/> Yes                   |                                                                                                  |
|                                                                                             | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |                                                                                                  |
| Installation Notes                                                                          | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the vent mat which had been installed to a good standard. The vent mat has been installed across the TFA of the area denoted above. At the opposing perimeter edges, a continuous slotted gas collection pipe has been installed with the vent mat slotted into the pipe.</p> |                                                                  |                                                                                                  |
| Type of Joint                                                                               | Tape Joint <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Auto Weld <input type="checkbox"/>                               | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                                                   | <input type="checkbox"/> Air Lance (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  | <input type="checkbox"/> Probe Test (ASTM D4437)                                                 |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                   | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                             | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                             | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out:

Have any defects identified above been satisfactorily rectified ☐ Yes ☐ No ☒ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

Signed: **Keith Barsby**

Date: **22/06/2021**

Area Inspected

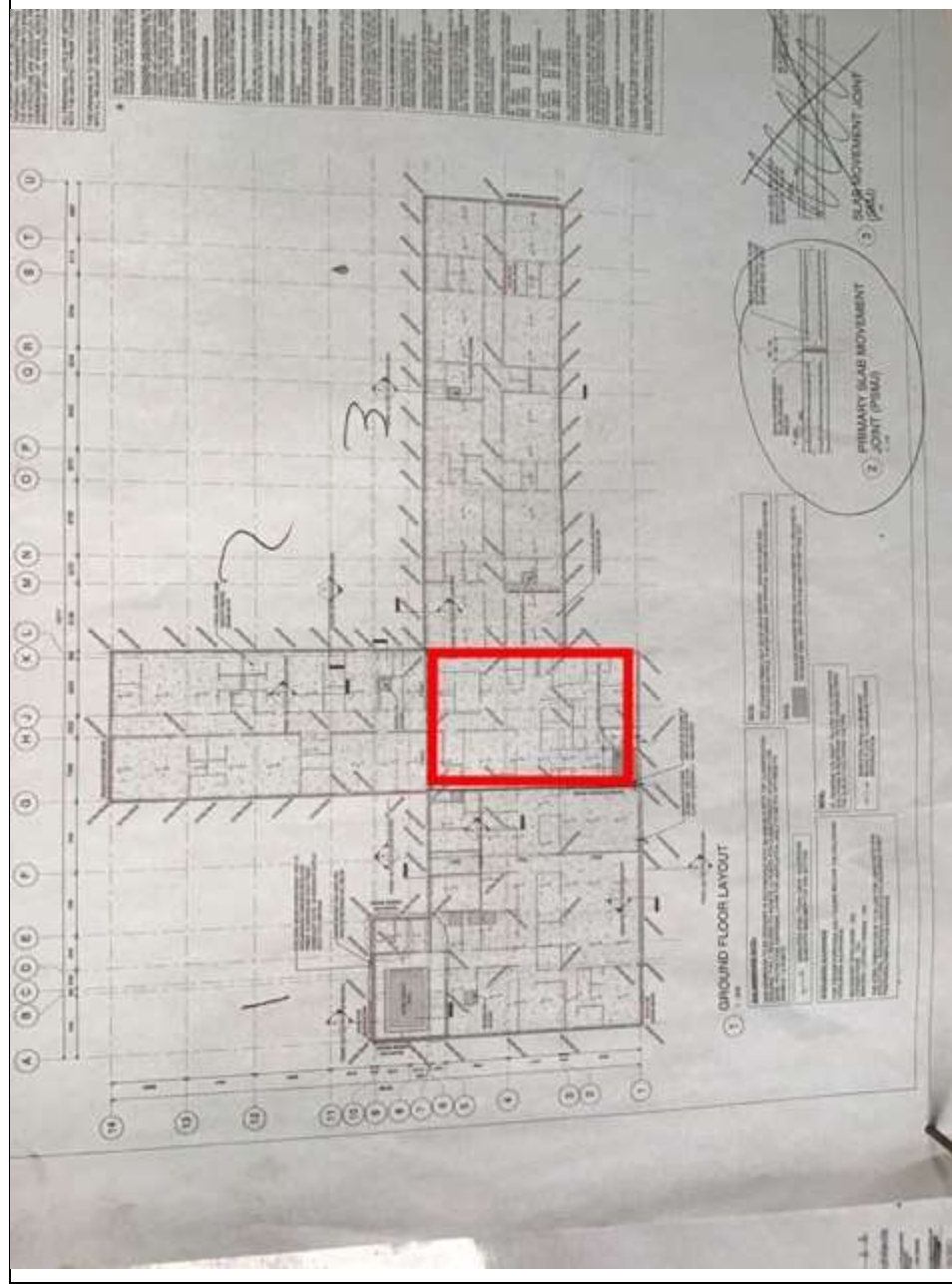
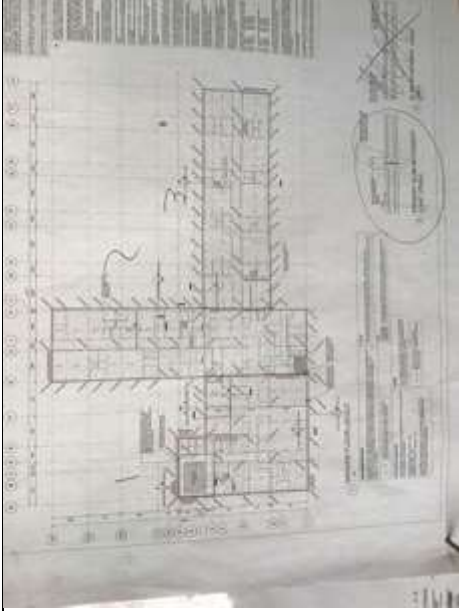


Photo 22/06/2021



Floor plan



Overview



Vent mat inserted into slotted collection pipe



Vent mat around stanchion



Vent mat around pipe

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |                                                                                                  |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Site name: Tilbury Douglas, Prospect House SEN School, Bank house rd, Blackley, Manchester. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Units/ plots checked: : Phase 2 gridlines G/L - 1/7(Membrane) |                                                                                                  |
| Postcode: M9 8LT                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |                                                                                                  |
| Installers Name: ACS Linings                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |                                                                                                  |
| Date: 22/06/2021                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |                                                                                                  |
| Inspection by: Keith Barsby                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Weather: 22°C Fine                                            |                                                                                                  |
| Item                                                                                        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |                                                                                                  |
| Sub-floor void                                                                              | Full blanket of 25mm geocomposite vent former                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                               |                                                                                                  |
| Ventilation Inlets and Outlets                                                              | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                               |                                                                                                  |
| Number Of Vents                                                                             | 4no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                               |                                                                                                  |
| Materials used:                                                                             | Membrane – ACS Gas membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                               |                                                                                                  |
|                                                                                             | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Preformed Top hats <input type="checkbox"/> Yes               |                                                                                                  |
|                                                                                             | Double Sided Butyl Tape <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Preformed Corners <input type="checkbox"/> Yes                |                                                                                                  |
|                                                                                             | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                               |                                                                                                  |
| Installation Notes                                                                          | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the membrane. The membrane has been installed across the area denoted above. At the perimeter edge, the membrane has been turned up the inside face of the timber shuttering. The membrane has been joined to the previously installed membrane using tape joints. All pipes have been sealed using SAGM, stanchions in the middle of the area have been sealed using SAGM.</p> |                                                               |                                                                                                  |
| Type of Joint                                                                               | Tape Joint <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Auto Weld <input type="checkbox"/>                            | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Jointing/Detailing Testing                                                                  | <input type="checkbox"/> Air Lance (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               | <input checked="" type="checkbox"/> Probe Test (ASTM D4437)                                      |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                   | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out: The stanchions at the perimeter edge have been sealed internally using SAGM and will require sealing once the shutter has been removed. All other area inspected on this visit have passed inspection (Repairs have successfully been carried out on 02/09/21 & 13/09/21)

Signed: **Keith Barsby**

Date: **22/06/2021**

Area Inspected

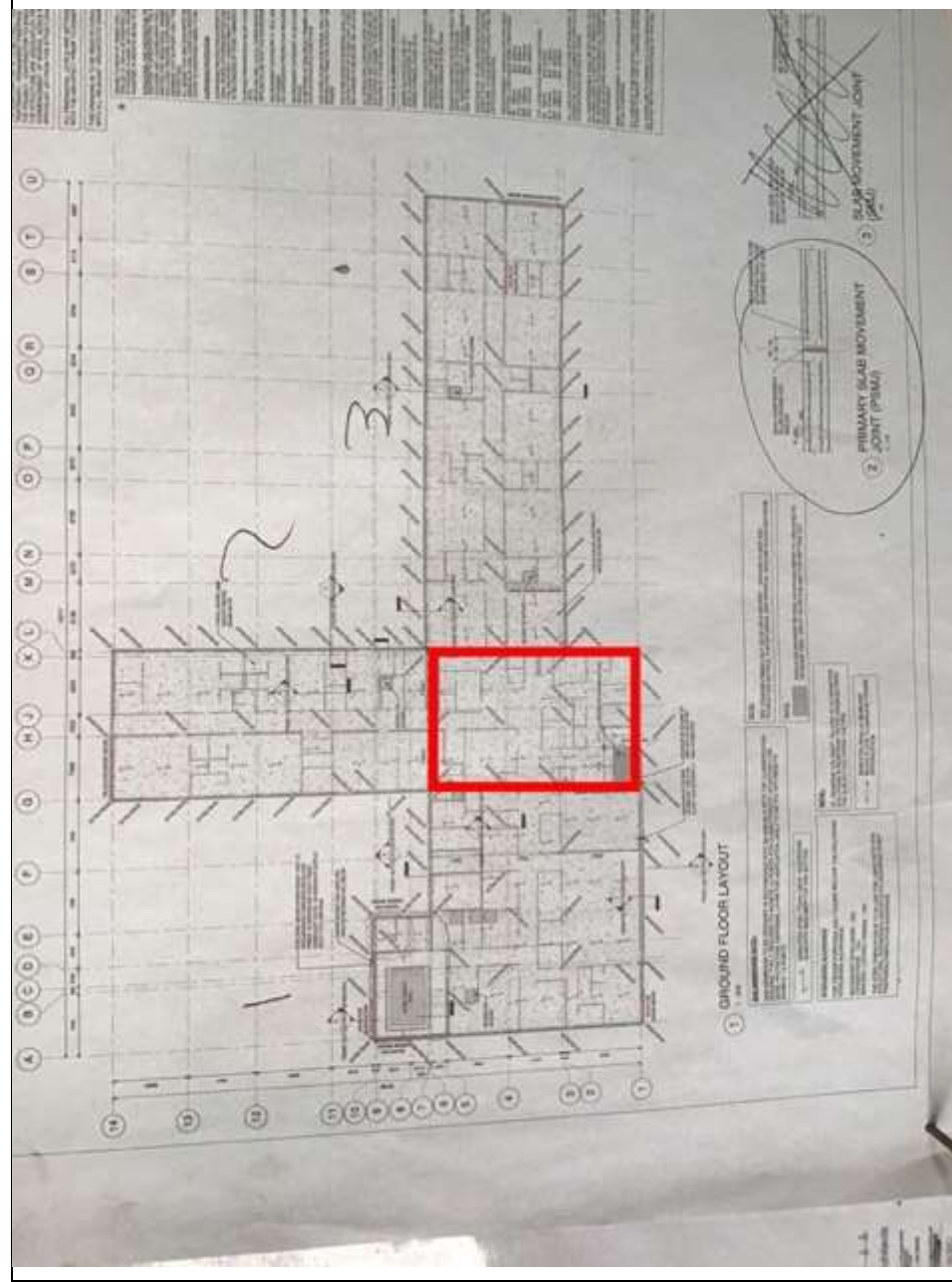
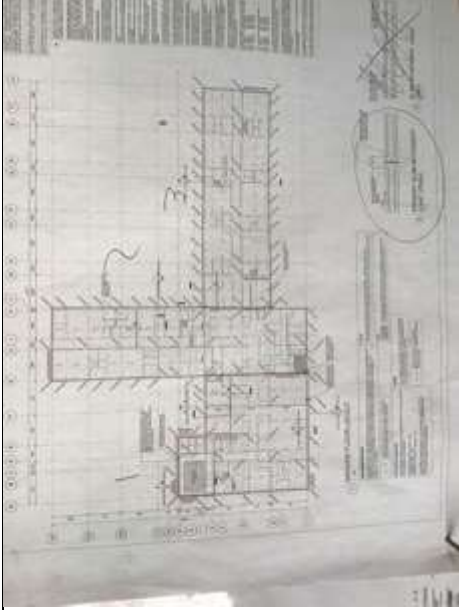


Photo 22/06/2021



Floor plan



Overview



Stanchion seal using SAGM



Pipe seal being pick tested



Pipe seal using SAGM



Pipe seal using SAGM



Perimeter edge



Joint to previously installed membrane

| Site name: Tilbury Douglas Construction. Bank House Road. Middleton |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Units/ plots checked: : Manchester SEN prospect house primary school. Full venting installation. Gridlines L-U / 2-7 |                                                                                                  |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Postcode: M9 8LT                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      |                                                                                                  |
| Installers Name: ACS                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      |                                                                                                  |
| Date: 28/06/2021                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      |                                                                                                  |
| Inspection by: Dan Squire                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Weather: 15°C Dry                                                                                                    |                                                                                                  |
| Item                                                                | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                      |                                                                                                  |
| Sub-floor void                                                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                      |                                                                                                  |
| Ventilation Inlets and Outlets                                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                      |                                                                                                  |
| Number Of Vents                                                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                      |                                                                                                  |
| Materials used:                                                     | Membrane – ACS gas membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                      |                                                                                                  |
|                                                                     | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                   | Preformed Top hats <input type="checkbox"/> Yes                                                                      |                                                                                                  |
|                                                                     | Double Sided Butyl Tape <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                             | Preformed Corners <input type="checkbox"/> Yes                                                                       |                                                                                                  |
|                                                                     | Others Please List: ACS Vent sheet and T pieces                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      |                                                                                                  |
| Installation Notes                                                  | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the venting mat, the venting mat is installed across the full footprint of the building and joins onto the vent T pieces around the perimeter edge which run through the perimeter ground beam. The venting has been installed to a good standard.</p> |                                                                                                                      |                                                                                                  |
| Type of Joint                                                       | Tape Joint <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                              | Auto Weld <input type="checkbox"/>                                                                                   | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Jointing/Detailing Testing                                          | <input type="checkbox"/> Air Lance (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      | <input type="checkbox"/> Probe Test (ASTM D4437)                                                 |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets           | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                     | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                     | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                     | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                     |                                                                                                  |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out: N/A

Have any defects identified above been satisfactorily rectified ☐ Yes ☐ No ☒ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

Signed: **Dan Squire**

Date: **28/06/2021**

Area Inspected

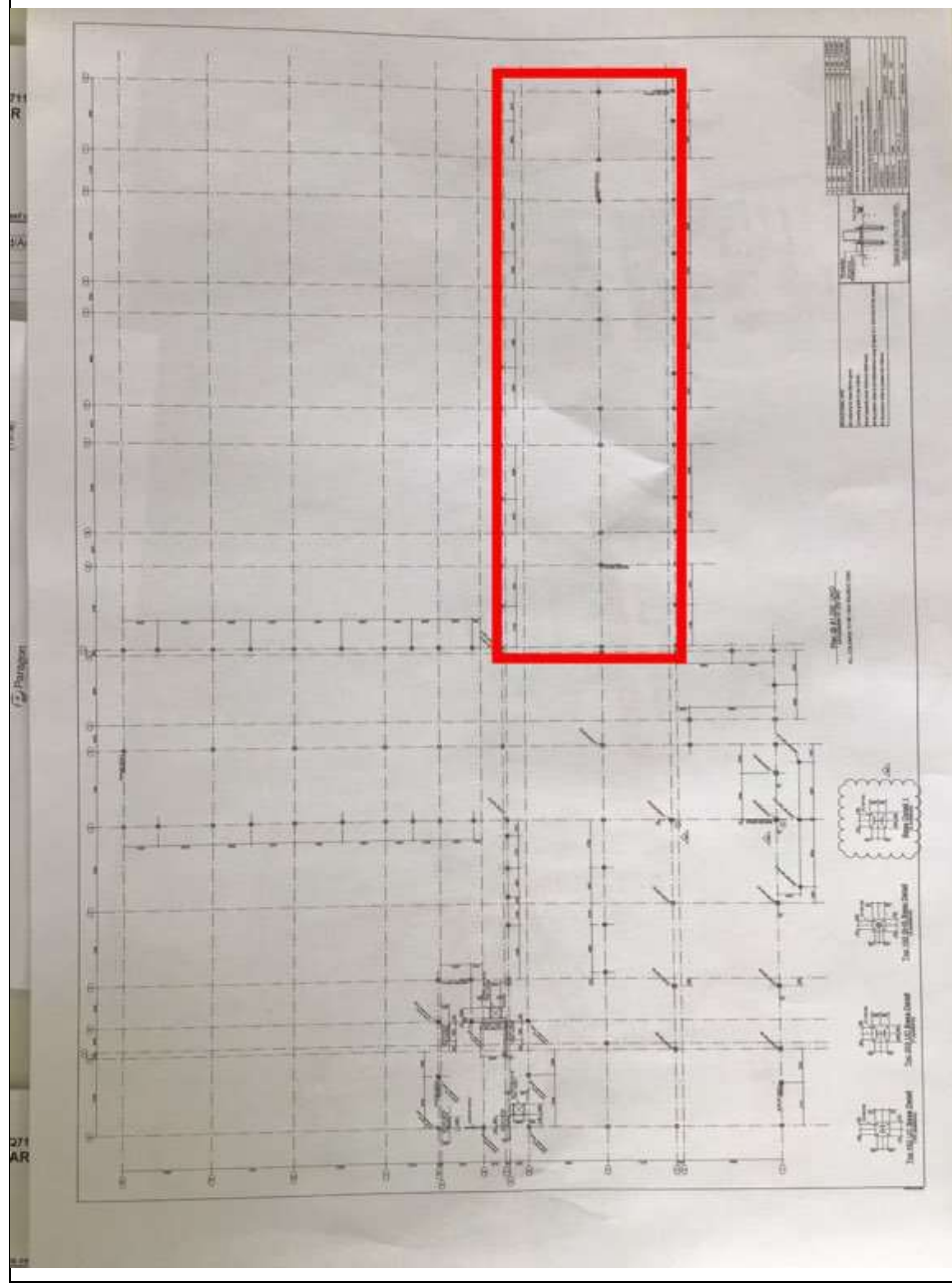


Photo 28/06/2021



Full venting installation



Vent mat joining to perimeter T piece



T piece coming through the perimeter concrete beam



Vent mat connected to perimeter T piece



Full venting installation gridlines L-U / 2-7



Full venting installation gridlines L-U / 2-7



Venting cut around pipe penetration

| Site name: Tilbury Douglas Construction. Bank House Road. Middleton |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Units/ plots checked: : Manchester SEN prospect house primary school. Full line out installation. Gridlines D-E / 8-9 & L-U / 2-7 |                                                                                                  |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Postcode: M9 8LT                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |                                                                                                  |
| Installers Name: ACS                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |                                                                                                  |
| Date: 02/07/2021                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |                                                                                                  |
| Inspection by: Dan Squire                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Weather: 17°C Dry                                                                                                                 |                                                                                                  |
| Item                                                                | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                   |                                                                                                  |
| Sub-floor void                                                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                  |
| Ventilation Inlets and Outlets                                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                  |
| Number Of Vents                                                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                  |
| Materials used:                                                     | Membrane – ACS gas membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                  |
|                                                                     | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Preformed Top hats <input type="checkbox"/> Yes                                                                                   |                                                                                                  |
|                                                                     | Double Sided Butyl Tape <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Preformed Corners <input type="checkbox"/> Yes                                                                                    |                                                                                                  |
|                                                                     | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                   |                                                                                                  |
| Installation Notes                                                  | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the gas membrane, the membrane is installed to a good standard across the full footprint of the building on top of the venting mat inspected on the previous visit on the gridlines denoted above. The membrane is extended up and over the temporary perimeter shuttering. All stanchions and penetrations sealed using SAGM.</p> |                                                                                                                                   |                                                                                                  |
| Type of Joint                                                       | Tape Joint <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Auto Weld <input type="checkbox"/>                                                                                                | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Jointing/Detailing Testing                                          | <input type="checkbox"/> Air Lance (ASTM D4437)<br><input checked="" type="checkbox"/> Probe Test (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                   |                                                                                                  |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets           | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                     | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                     | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                     | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                          | <input checked="" type="checkbox"/> N/A                                                          |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out: 10no patch repairs made by the installers using SAGM.

Have any defects identified above been satisfactorily rectified ☒ Yes ☐ No ☐ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

Signed: **Dan Squire**

Date: **02/07/2021**

Area Inspected

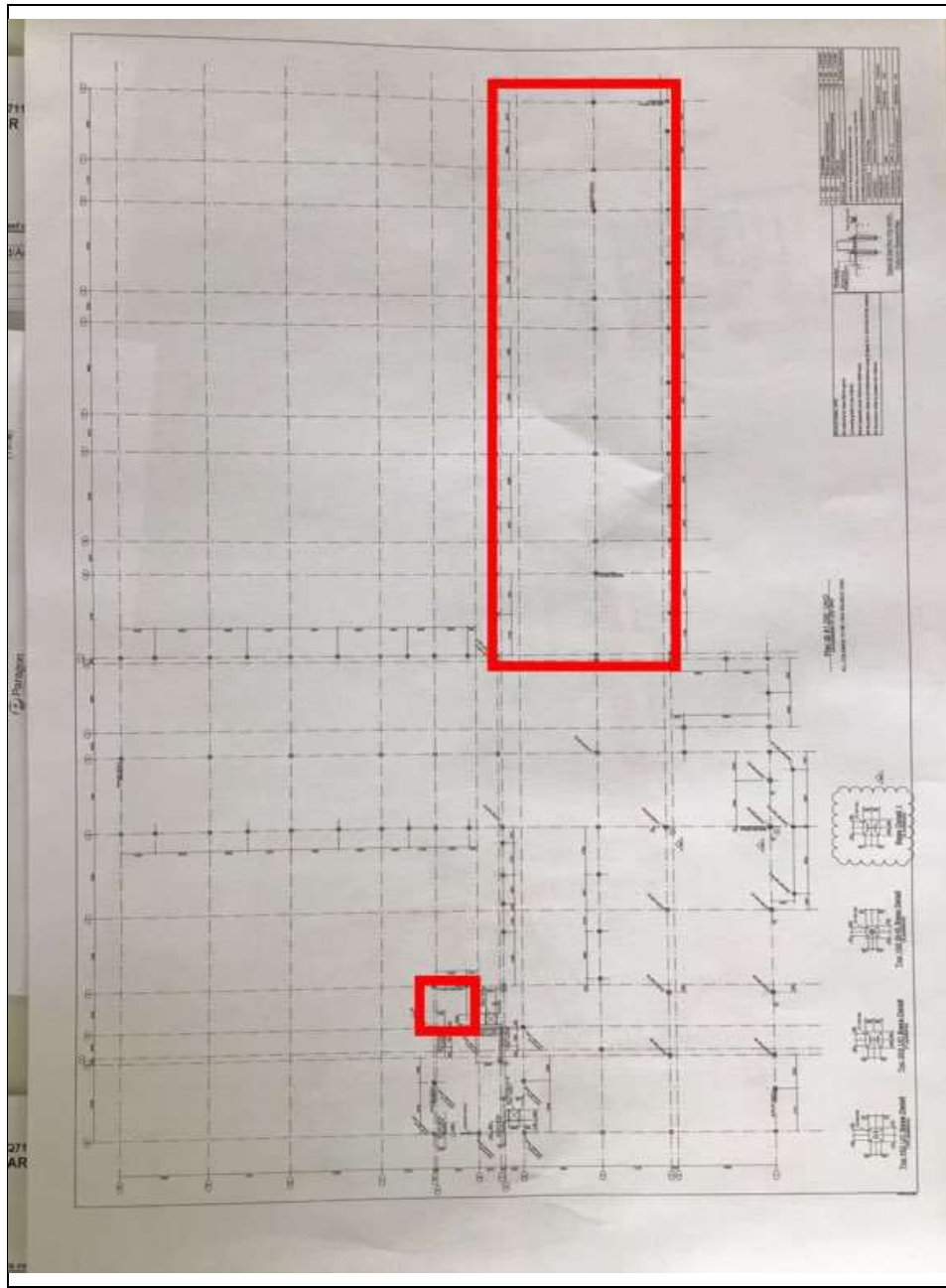


Photo 02/07/2021



Full line out installation gridlines L-U / 2-7



Full line out installation gridlines D-E / 8-9



Sealed stanchion detail



Sealed pipe penetration



Sealed stanchion detail



Sealed perimeter stanchion and corner detailing



Sealed double sided butyl tape membrane joint

|                                                                                                    |                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                                  |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Site name: <b>Tilbury Douglas, Prospect house SEN school, Bank house Rd, Blackley, Manchester.</b> |                                                                                                                                                                                                                                                                                                                                   | Units/ plots checked: : <b>Perimeter edge membrane</b> |                                                                                                  |
| Postcode: <b>M9 8LT</b>                                                                            |                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                                  |
| Installers Name: <b>ACS Linings</b>                                                                |                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                                  |
| Date: <b>04/08/2021</b>                                                                            |                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                                  |
| Inspection by: <b>Keith Barsby</b>                                                                 |                                                                                                                                                                                                                                                                                                                                   | Weather: <b>24°C Fine</b>                              |                                                                                                  |
| Item                                                                                               | Comments                                                                                                                                                                                                                                                                                                                          |                                                        |                                                                                                  |
| Sub-floor void                                                                                     | Full blanket of 25mm geocomposite vent former                                                                                                                                                                                                                                                                                     |                                                        |                                                                                                  |
| Ventilation Inlets and Outlets                                                                     | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                |                                                        |                                                                                                  |
| Number Of Vents                                                                                    |                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                                  |
| Materials used:                                                                                    | Membrane – ACS Gas membrane                                                                                                                                                                                                                                                                                                       |                                                        |                                                                                                  |
|                                                                                                    | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                    | Preformed Top hats <input type="checkbox"/> Yes        |                                                                                                  |
|                                                                                                    | Double Sided Butyl Tape <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                              | Preformed Corners <input type="checkbox"/> Yes         |                                                                                                  |
|                                                                                                    | Others Please List: <b>N/A</b>                                                                                                                                                                                                                                                                                                    |                                                        |                                                                                                  |
| Installation Notes                                                                                 | <b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b><br>MEC Environmental carried out a visual inspection of the membrane and the stanchions at the perimeter edge of the slab prior to the external leaf of brick work being built. |                                                        |                                                                                                  |
| Type of Joint                                                                                      | Tape Joint <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                    | Auto Weld <input type="checkbox"/>                     | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                                                          | <input type="checkbox"/> Air Lance (ASTM D4437)<br><input checked="" type="checkbox"/> Probe Test (ASTM D4437)                                                                                                                                                                                                                    |                                                        |                                                                                                  |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                          | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                    |                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                                    | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                     |                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                                    | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                            |                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                                    | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                       |                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                                    | Has all other detailing work passed inspection                                                                                                                                                                                                                                                                                    |                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out: The stanchions have been sealed using SAGM, however, the membrane has been damaged (Repairs have successfully been carried out on 02/09/21 & 13/09/21)

Have any defects identified above been satisfactorily rectified ☒ Yes ☐ No ☐ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

Signed: **Keith Barsby**

Date: **04/08/2021**

Area Inspected

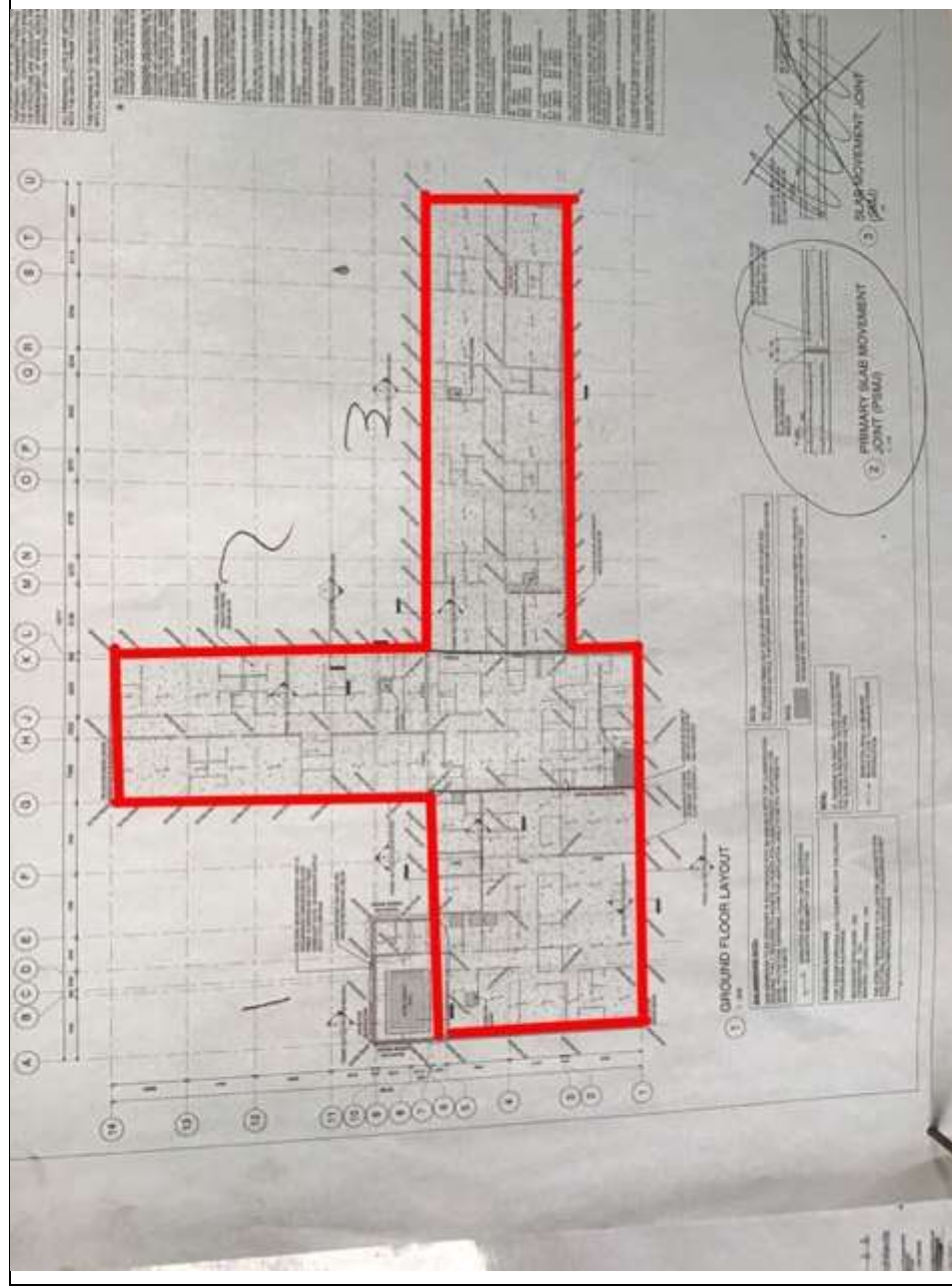


Photo 04/08/2021



Stanchion seal using SAGM



Perimeter edge and stanchions sealed



Damage and unsealed in corner



Membrane not joined



Stanchion seal using SAGM

| Site name: Tilbury Douglas construction. Bank house road. Middleton |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Units/ plots checked: : Manchester SEN prospect house primary school. Perimeter repair works |                                                                                                  |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Postcode: M9 8LT                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                              |                                                                                                  |
| Installers Name: ACS                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                              |                                                                                                  |
| Date: 02/09/2021                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                              |                                                                                                  |
| Inspection by: Dan Squire                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Weather: 15°C Dry                                                                            |                                                                                                  |
| Item                                                                | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |                                                                                                  |
| Sub-floor void                                                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |                                                                                                  |
| Ventilation Inlets and Outlets                                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |                                                                                                  |
| Number Of Vents                                                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |                                                                                                  |
| Materials used:                                                     | Membrane – ACS gas membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |                                                                                                  |
|                                                                     | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Preformed Top hats                                                                           | <input type="checkbox"/> Yes                                                                     |
|                                                                     | Double Sided Butyl Tape <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Preformed Corners                                                                            | <input type="checkbox"/> Yes                                                                     |
|                                                                     | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                              |                                                                                                  |
| Installation Notes                                                  | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a thorough visual inspection of the gas membrane, the membrane is installed to a good standard. The installers carried out 93no repairs to the perimeter membrane which sits on top the external brickwork using SAGM and a torch weld to the following gridlines: 9-14/G. 14/G-L. 3/K-U. 7/K-U. 3-7/U. 1-3/K. 1-G/K.</p> <p>Perimeter works 90% completed. Further repairs required to the remainder of gridline 1 and gridline A, once the brickwork has been completed.</p> |                                                                                              |                                                                                                  |
| Type of Joint                                                       | Tape Joint <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Auto Weld <input type="checkbox"/>                                                           | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                           | <input type="checkbox"/> Air Lance (ASTM D4437) <input checked="" type="checkbox"/> Probe Test (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |                                                                                                  |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets           | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                          | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |
|                                                                     | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                     | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                          | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |
|                                                                     | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out: 93no repairs made by the installers using SAGM.

Have any defects identified above been satisfactorily rectified ☒ Yes ☐ No ☐ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

Signed: **Dan Squire**

Date: **02/09/2021**

Area Inspected

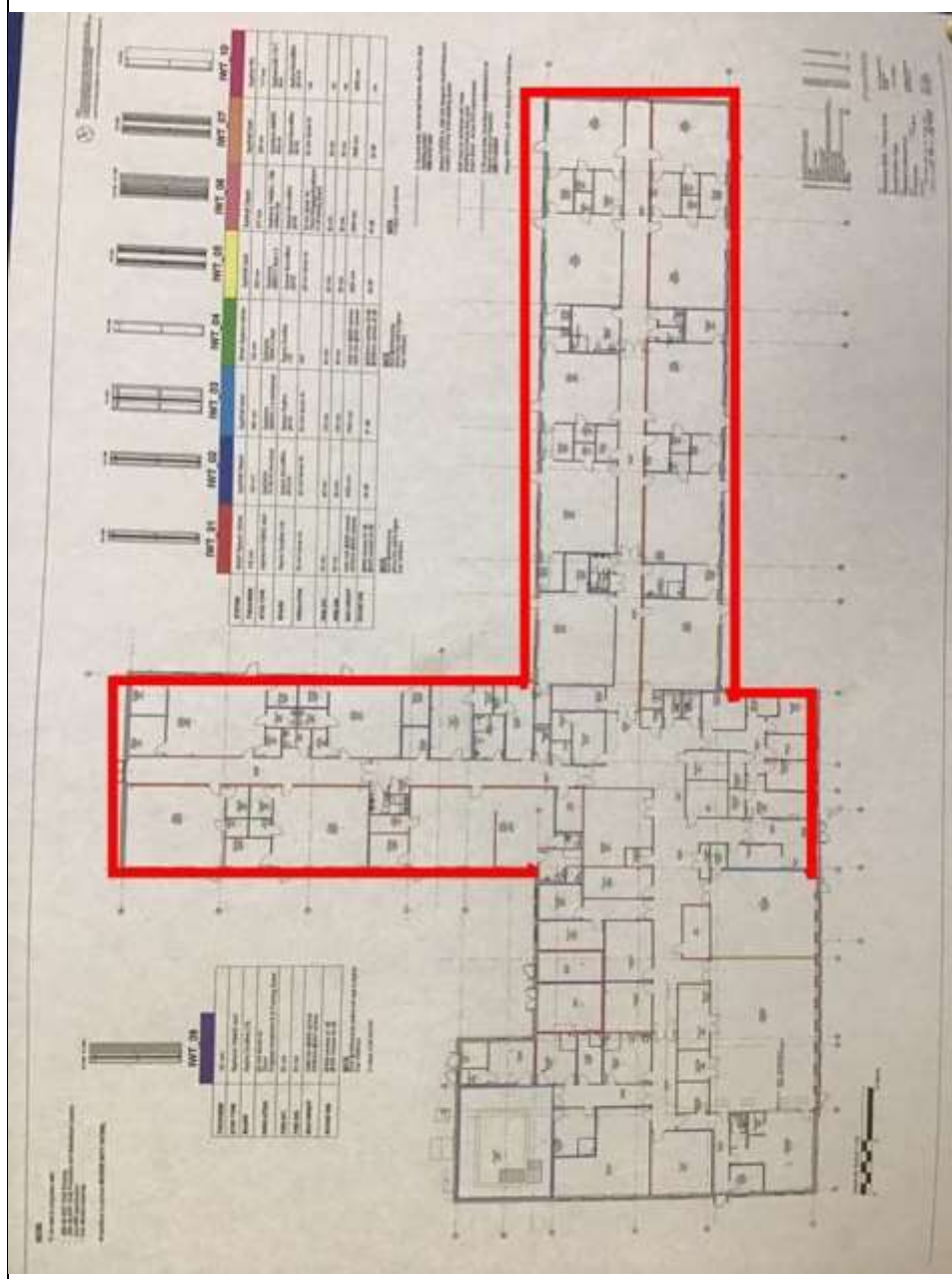


Photo 02/09/2021



Perimeter corner repair



Perimeter steel repair



Perimeter repairs



Perimeter repairs



Perimeter repair



Perimeter repairs



Perimeter repairs

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |                                                                                                  |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Site name: Tilbury Douglas, Prospect house SEN School, Bank house Rd, Blackley, Manchester. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Units/ plots checked: : Perimeter edge membrane Gridlines 1-A/G, 10-A/E, E-6/10, E/G-6, A-1/10 |                                                                                                  |
| Postcode: M9 8LT                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |                                                                                                  |
| Installers Name: ACS Linings                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |                                                                                                  |
| Date: 13/09/2021                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |                                                                                                  |
| Inspection by: Keith Barsby                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Weather: 15°C Overcast                                                                         |                                                                                                  |
| Item                                                                                        | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                |                                                                                                  |
| Sub-floor void                                                                              | Full blanket of 25mm geocomposite vent former                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                |                                                                                                  |
| Ventilation Inlets and Outlets                                                              | Not in Place at time of inspection                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                  |
| Number Of Vents                                                                             | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |                                                                                                  |
| Materials used:                                                                             | Membrane – ACS Gas membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                |                                                                                                  |
|                                                                                             | Self-Adhesive Membrane <input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                  | Preformed Top hats <input type="checkbox"/> Yes                                                |                                                                                                  |
|                                                                                             | Double Sided Butyl Tape <input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                            | Preformed Corners <input type="checkbox"/> Yes                                                 |                                                                                                  |
|                                                                                             | Others Please List: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                |                                                                                                  |
| Installation Notes                                                                          | <p><b><u>(brief description of area/plots and list of defects/repairs identified to the main membrane sheet, excluding detailing and joints)</u></b></p> <p>MEC Environmental carried out a visual inspection of the membrane and the stanchions at the perimeter edge of the slab prior to the external leaf of brick work being built. The stanchions have been sealed using SAGM, 34no patch repairs have been made using SAGM by the installer prior to our inspection.</p> |                                                                                                |                                                                                                  |
| Type of Joint                                                                               | Tape Joint <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                  | Auto Weld <input type="checkbox"/>                                                             | Hand Weld <input type="checkbox"/> Extrusion Weld <input type="checkbox"/>                       |
| Joining/Detailing Testing                                                                   | <input type="checkbox"/> Air Lance (ASTM D4437)                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                | <input checked="" type="checkbox"/> Probe Test (ASTM D4437)                                      |
| Laps, welds and detailing<br>Ventilation Inlets & Outlets                                   | Have all joints passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all pipes passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
|                                                                                             | Have all stanchions/wind braces/columns passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
|                                                                                             | Have all piles and pile caps passed testing prior to surveyor leaving site?                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Has all other detailing work passed inspection                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

**(List any defects to detailing work and joints):**

During our inspection the following defects and repairs were carried out: None

Have any defects identified above been satisfactorily rectified ☒ Yes ☐ No ☐ N/A

The Area has passed inspection ☒

The Area has failed inspection and a corrective action sheet has been left with the contractor ☐

The Area is incomplete as detailed above ☐

Signed: **Keith Barsby**

Date: **13/09/2021**

Area Inspected

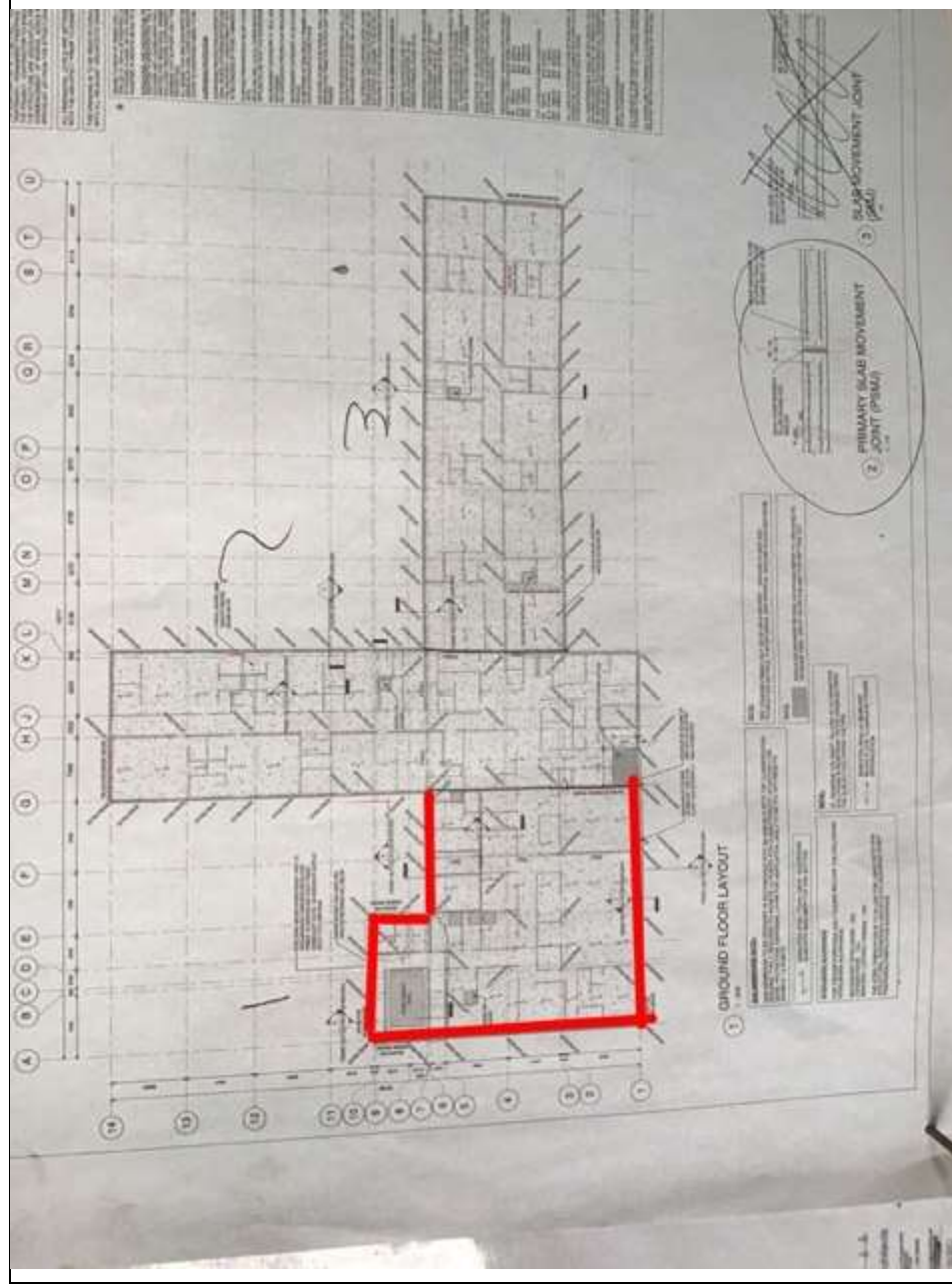


Photo 13/09/2021



Perimeter edge



Perimeter edge

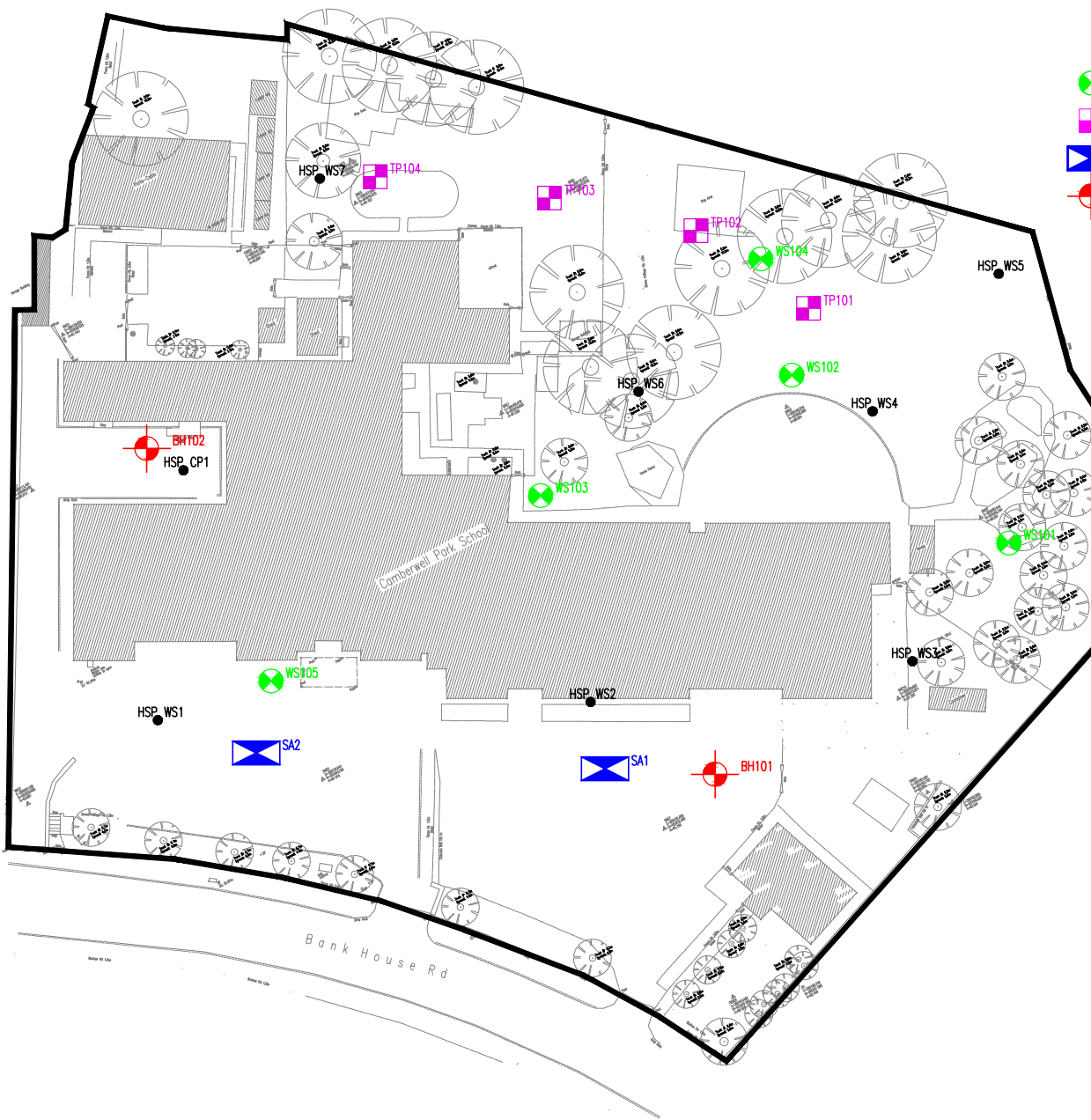


Perimeter edge



Patch repairs

## Drawing Ref. – FS0831-SUT-ZZ-00-DR-C-700-0002 – Site Investigation Location Plan



- KEY
- WINDOW SAMPLE LOCATION
  - TRIAL PIT LOCATION
  - SOAKAWAY LOCATION
  - BOREHOLE LOCATION

**General Notes**

DO NOT SCALE OFF THIS DRAWING

THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.

ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS, STATUTORY HEALTH AND SAFETY/C.D.M. REGULATIONS, RELEVANT CODES OF PRACTICE AND THE CURRENT EDITION OF THE BUILDING REGULATIONS.

FOR FINAL SETTING OUT INFORMATION RELATING TO GRID LINES AND WALL POSITIONS REFER TO THE ARCHITECT'S DRAWINGS.

| Sample Reference     | Depth of Made Ground | Material Encountered                                          |
|----------------------|----------------------|---------------------------------------------------------------|
| WS3<br>(HSP)         | 3.00m                | Glass, plastic, ash, clinker, textiles, mudstone and coal.    |
| WS4<br>(HSP)         | 3.50m                | Brick, glass, plastic and ash.                                |
| WS5<br>(HSP)         | 5.00m                | Brick, ash, clinker, wood, glass, plastic, metal and paper.   |
| WS6<br>(HSP)         | 5.00m                | Brick, ash, glass, plastic, and ceramics.                     |
| WS7<br>(HSP)         | 2.30m                | Brick, ash, concrete, glass and ceramics.                     |
| TP101<br>(Sutcliffe) | 3.30m                | Plastic, wood, metal, glass, bricks, tyres, bottles and jars. |
| TP102<br>(Sutcliffe) | 3.90m                | Bottles, wood, glass, plastics, wire, jars and rags.          |
| TP103<br>(Sutcliffe) | 2.40m                | Bricks, rags, plastics, wood, jars and metals.                |
| TP104<br>(Sutcliffe) | 2.40m                | Bricks, wood, glass, plastics, wire, jars and metals.         |
| WS104<br>(Sutcliffe) | 4.40m                | Plastics, bricks, tiles, metals and glass.                    |



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BCE  
Construction Ltd

Drawing Status

**INFORMATION**

Client  
**Interserve**

Project  
**Manchester SEND  
Prospect House Primary School, Blackley**

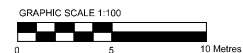
Drawing Title  
**SITE INVESTIGATION  
LOCATION PLAN  
(INCLUDING HSP SAMPLES)**

|                                |                     |                |            |    |      |
|--------------------------------|---------------------|----------------|------------|----|------|
| P01                            | PRELIMINARY DRAWING |                | 21.06.19   | CR | SB   |
| Rev                            | Description         |                | Date       | By | Chkd |
| Date                           |                     | Drawn By       | Checked By |    |      |
| 21.06.19                       |                     | CR             | SH         |    |      |
| Scale at A1                    |                     | Project Number | Revision   |    |      |
| 1:500                          |                     | 30186          | P01        |    |      |
| Sheet Number                   |                     |                |            |    |      |
| FS0831-SUT-ZZ-00-DR-C-700-0002 |                     |                |            |    |      |

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**Drawing Ref. – FS0831-JMA-01-00-DR-A-00-0002–Proposed Ground Floor Plan**

Notes:  
1. The drawing should not be used for any other purpose than that for which it was prepared.  
2. Any changes to the drawing should be made by the drawing office.  
3. Copyright of this drawing is reserved by Jmarchitects.  
Structural information retained only. To be confirmed by Structural Engineer.



| CDM Ground Floor |          |                                           |            |                       |             |                                       |                       |
|------------------|----------|-------------------------------------------|------------|-----------------------|-------------|---------------------------------------|-----------------------|
| Mark             | Level    | Description                               | Work Phase | Initial Risk Category | Risk Owner  | Actions                               | Risk Category Revised |
| 01               | Level 00 | High Level M&E internal maintenance       | CP         | Medium                | Maintenance | Refer to Access, Maintenance Strategy | Low                   |
| 02               | Level 00 | High Level Window cleaning                | CP         | Medium                | Maintenance | Use of telescopic pole                | Low                   |
| 03               | Level 00 | Outwards opening doors                    | CP         | Medium                | Regular use | Door hooks provided                   | Low                   |
| 04               | Level 00 | Sink can cause slippery floor             | CP         | Medium                | Regular use | Antislip water flooring               | Low                   |
| 05               | Level 00 | Shower can cause slippery floor           | CP         | Medium                | Regular use | Antislip water flooring               | Low                   |
| 06               | Level 00 | Hydropool can cause slippery floor        | CP         | Medium                | Regular use | Antislip water flooring               | Low                   |
| 07               | Level 00 | Outwards opening doors                    | CP         | Medium                | Regular use | Landscaping fencing next to the door  | Low                   |
| 08               | Level 00 | Chemical delivery to hydropool            | CP         | Medium                | Maintenance | External Access only for delivery     | Low                   |
| 09               | Level 00 | Food preparation can cause slippery floor | CP         | Medium                | Regular use | Antislip water flooring               | Low                   |
| 12               | Level 00 | Hydropool M&E maintenance                 | CP         | Medium                | Maintenance | Refer to Access, Maintenance Strategy | Low                   |

NOTE: Further canopy locations and provisions to be concluded at RDD in line with project allowance



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | 051 | 052 | 053 | 054 | 055 | 056 | 057 | 058 | 059 | 060 | 061 | 062 | 063 | 064 | 065 | 066 | 067 | 068 | 069 | 070 | 071 | 072 | 073 | 074 | 075 | 076 | 077 | 078 | 079 | 080 | 081 | 082 | 083 | 084 | 085 | 086 | 087 | 088 | 089 | 090 | 091 | 092 | 093 | 094 | 095 | 096 | 097 | 098 | 099 | 100 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|