

St Monica's Junior School

Site Consolidation Feasibility Study

Southampton City Council

August 2021

St Monica's School



Notice

This document and its contents have been prepared and are intended solely as information for Southampton City Council and use in relation to a Feasibility Study reviewing different options available for additional classrooms following the consolidation of St Monica's School.

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Client signoff

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1. Introduction and Briefing

Faithful+Gould have been instructed by Southampton City Council (SCC) to consider feasibility options for the provision of permanent and temporary classroom accommodation following the consolidation of St Monica's Junior and Infant Schools.

The brief received from SCC was to provide a total of 5no. additional classrooms which will accommodate the increase in pupils once the two sites have been consolidated. As per the brief received, two of the 5no. new classrooms will be permanent additions to the school and the remaining three will be hired temporary classrooms, gradually reducing in number over the course of 4 years. The below 'Table 1' provides an overview of the temporary classroom provisions required to meet the school's needs.

Academic Year	Number of <u>Temporary</u> Classrooms
2021 - 2022	-
2022 - 2023	3
2023 - 2024	2
2024 - 2025	2
2025 - 2026	1
2026 - 2027	0
2027 - 2028	0

Table 1: Temporary Accommodation Hire Timescales

The existing school buildings are surrounded by soil embankments which make extending the existing school's buildings difficult to accommodate. The school is provided with large grassed areas to the South of the site, and hardstanding playground surfaces to the West. See image 1 below.



Image 1 – St Monica's School Site View

Due to the restricted site, modular classrooms were proposed as an ideal solution to provide the school with the necessary teaching facilities, with a fast turn around in manufacturing, allowing for the project to be completed before the start of the 2022/2023 academic year, which would have been difficult to meet through the use of traditional construction techniques.

2. Review of the Existing Site

2.1. Introduction

St Monica's Junior School is located in a principally residential area of Sholing, Southampton. Access to the site is gained off St Monica Road. 'Elim Church' is located on the corner to the entrance of the school.

A walk around of the school's boundaries provided insight into suitable areas on which potential modular units could be located. Due to access constraints around the school, the grassed areas to the South of the school's main building, as highlighted in the image below, presented the most feasible location.



Image 2 – Proposed area on which to locate the modular units

2.2. Access Restrictions

Following attendance by two large modular building suppliers, Portakabin and McAvoy Group, advice was obtained on best access routes available onto the site, including other elements which need to be taken into consideration going forwards with the project.

Both suppliers confirmed that the only available route into the site is from St Monica road, as the school is surrounded by residential properties and various large trees which prevent cranes onto the site from these locations.

The access route for flatbed transportation lorries has been considered and the following items will need to be actioned prior to the delivery of any modular buildings:

1. Temporary parking restrictions on St Monica road will be required.
2. Temporary removal of the half height timber pedestrian fencing to the main access road from St Monica road to the school's car park.
3. Temporary removal of the school's double access gate and fence.
4. Temporary removal of the 'yellow' pedestrian fence located in front of the church.
5. Removal of the small trees located on the proposed grassed area, south of the Annexe building.
6. Removal of the shed located on the proposed grassed area, south of the Annexe building.

See Appendix E, Schedule of Photographs for further information.

2.3. Existing Buildings

The existing school buildings are of single story, traditionally built construction. The site is divided into the main school building and an annexe to the South of the site.

The external walls are masonry brick provided with modern powder coated double glazed fenestration. The roofs are a mixture of bitumen felt flat roofs and mono pitched roofs with interlocking concrete tiles.

The main access into the school is via the reception, located at the southern end of the main building. Pedestrian paths are provided to the perimeter of the school, linking the main school buildings, annexe and hardstanding playground.

2.4. Tree Preservation Orders

A mixture of protected oak, silver maple and other trees are located on and around St Monica's School, including protected areas of woodland to the west of the site.

The TPO's are unlikely to be affected by the proposed works, which are relatively flexible in terms of siting the modular buildings far enough away from protected tree root zones. Advice will need to be sought from an arboriculturist regarding the trees located within relatively close proximity to the proposed works area, as highlighted on the image below.

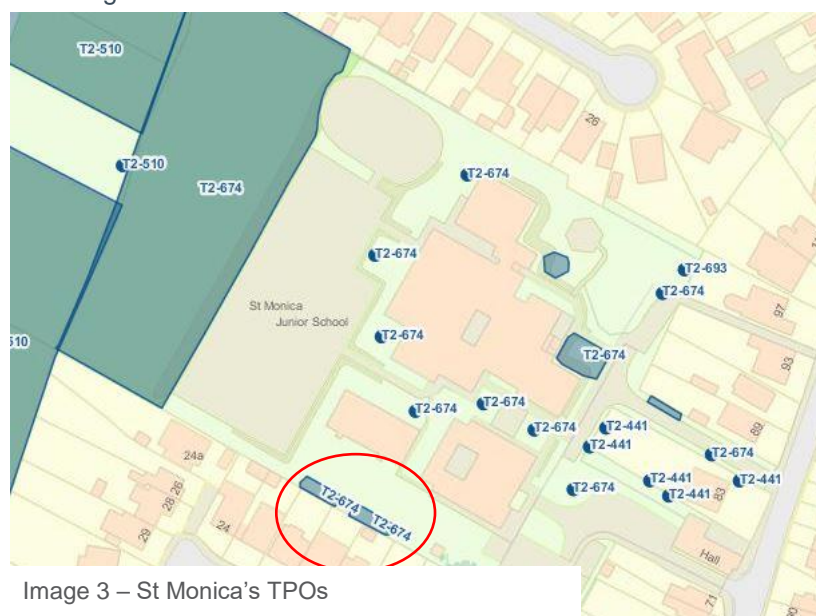


Image 3 – St Monica's TPOs

3. Net Capacity Assessment

A Net Capacity Assessment (NCA) including measured survey was completed by 'damss' which has provided a detailed overview of the existing site accommodation and whether there would be adequate scope to utilise existing spaces to accommodate future increased number of pupils. See Appendix B for full NCA document.

The NCA revealed that based on the existing school's available net floor area, the existing school has a Basic Workplace capacity of 532 and a Resource Workplace capacity of 202. The existing Net Capacity has been calculated as 319. This is the amount of space currently available for use.

Basic Workplace is defined as spaces which can accommodate numbers between 15 and 30, i.e teaching spaces and classrooms.

Resource Workplace is defined as those spaces with a capacity of less than 15 workplaces (undersized classrooms, small libraries, large stores, etc) AND/OR the Basic Workplaces which exceed 30.

The school have advised that there is currently a maximum capacity of 360 students. This number is above the 319 calculated by the NCA as the school are likely using spaces not 'technically' defined as useable spaces.

Based on the information provided by the NCA, it indicates that the net area of the existing site has the ability to provide an increase in student spaces, maximum of circa 500 total, should internal reconfiguration works be considered.

3.1. WC Provisions

As part of the Feasibility study, the general provision of WC's were reviewed. As per the Net Capacity Assessment carried out at the school, the school's existing WC provisions are adequate for the current number of pupils, based on a 1:20 ratio.

Total number of WCs, including annexe: 29no (cubicles).

Based on the 1:20 ratio, the school's existing WC provisions would accommodate a maximum total of 580no. pupils.

The modular classrooms are provided with their own designated WC's, suitable for the number of students within the units, therefore there would be no requirement to provide additional WC's as part of the consolidation scheme.

4. Investigations and Reports

4.1. Introduction

During the development of the Feasibility Stage information, various professional surveys were carried out to further advise on the suitability of the proposals, including risks which are to be taken into consideration during the next stages of design.

4.2. Civil

A visual survey was carried out by Scott White and Hookins (SWH) to review the existing site and provide a drainage strategy plan for the proposed works. Please see Appendix D for further information.

A new soakaway is proposed at the north east corner of the site however it is recommended that a full drainage survey of the existing site is undertaken in the following stages. Should a soakaway not be viable due to infiltration on site, an attenuated drainage system will be required, discharging to a surface water sewer or a ditch.

4.3. Mechanical and Electrical

A visual survey was completed by SSandA to review the M&E infrastructure at St Monica's Junior school, please see Appendix C for the detailed report.

The report produced is based off a total of 5no. additional modular classrooms. SSandA provided a detailed overview of the current services through a non-intrusive survey, services reviewed were:

1. Electricity
2. Gas
3. Water
4. Fire Alarm
5. Communications

SSandA provided the following conclusions and recommendations should the project proceed to the next stage:

Electrics

1. Based on the future load requirements of the extension at 84A and the existing capacity assumed at 104A, the following next steps are recommended.
2. Liaise with the local District Network Operator (DNO – SSE/UKPN etc) to understand the size of the existing infrastructure via a Nature of Supply application. This includes both the fuses and the incoming cable load capability.
3. Allow for upgrading the existing incoming electrical infrastructure with a minimum 200A incoming supply. Allowance should be made for a new supply, to terminate in a GRP enclosure with a metered service head and cut out. It may be that the incoming cable is rated close to or over the required loads, however this will need to be determined.
4. Provide 400A rated MCCB panel board adjacent to incoming supply fitted with 1no 125A supply to existing school and 1no 160A supply to feeder pillar for classroom.

5. Allow for 2no submains - 1no to the new portacabins and 1no new supply to the existing electrical switch cupboard to replace the existing incoming supply.
6. It is unclear as to how double and single classrooms will be connected electrically, however it may be prudent to allow for an additional feeder pillar to then provide 3-5no isolated supplies or a feed to each portacabin direct from the new MCCB panel.
7. Allow for a new LV panelboard to replace the existing aged and obsolete panel-board and to reconnect and test the existing school supplies.

Gas

Based on the school area at 2,200m² and school's gas requirements typically ranging between 125 - 200W/m² a total gas requirement of 440kW would be required.

For reporting purposes, it is unlikely that gas would be used as the primary fuel source for heating of the new proposed portacabins as confirmed by both Portcabin and McAvoy's. It should be noted however, that the system does have spare capacity, should a fixed solution be required.

Water

Initial calculations suggest that the existing water loading units at 210LU are the equivalent to a 54mm supply. The extension will require an estimated 120 additional loading units, which is still within the capacity of a 54mm supply at a velocity of 1.5m/s.

The existing supply should be investigated further to determine the type of supply pipe in the ground. As a minimum, it is recommended that the following works are undertaken:

1. A new water supply shall be connected to the existing supply in the driveway and a new PE water supply pipe should be routed in the ground to serve the Portacabins.

It is prudent to review the issues relating to the high iron levels in the domestic water systems, however we assume this will be addressed separately.

Fire Alarm

The existing services should be investigated further to determine the capacity however, the following works are recommended:

1. A dedicated fire alarm system shall be provided for the proposed extension. This system shall be connected to the existing repeater panel in the Annexe building routed at high level across to the new portacabins.

Communications

The existing services should be investigated further to determine the capacity, however the following works are recommended:

1. A new comms supply shall be connected to the existing comms room server in the Annexe building routed at high level across to the portacabins.

4.4. Ground Investigations

During an initial scoping visit, the site manager advised that there originally had been a swimming pool located on the site which had been subsequently removed approximately 10-15 years ago. See Image 1 of this report which indicates the approximate location of the removed swimming pool.

Dependant on the proposed location for the new modular buildings, this area will need to be further investigated due to the made up ground which will impact on foundation designs.

Furthermore, the composition of the made-up ground is unknown. Therefore there is a risk that hazardous materials were used to make up the ground. eg. Asbestos containing materials which would require specialist removal and disposal if disturbed.

Following the civil engineer's comments within Appendix D, it is recommended that further ground investigations are carried out in the following stages.

4.5. Condition Survey

A condition survey of the school's existing buildings has been undertaken by others, dated 20/05/2021 and is available by request through St Monica's School.

4.6. Asbestos Survey

No R&D survey was carried out as part of the Feasibility Report. A Management Report, register and survey (dated 2020) are available from the School.

A Refurbishment and Demolition Survey will be required in advance of any works taking place. Although the modular buildings themselves are fabricated off site with no interaction with the existing buildings, services will require connections to be made through penetration of existing external walls and upgrades of existing services, as detailed in the M&E report.

4.7. Additional surveys

Progressing into the next stages of design, it is recommended that the following surveys are completed:

1. CCTV Drainage Survey / CAT Scan
2. Refurbishment and Demolition Survey
3. Topographical Survey
4. Ground Investigations
5. Utility Searches
6. Below Ground Services Survey
7. Arboricultural Survey
8. Ecology Survey
9. Archaeological Survey

5. Proposed Solutions

5.1. An Overview to Modular Construction

Modular construction has made great strides in recent years when compared to traditional methods of construction which has led to an increased demand in recent years due developers exploring quicker and more cost effective alternative methods of construction.

In previous years, modular units have suffered from quality and durability issues, however in order to keep up with the ever changing standards and Regulations, modern modular buildings now equal the durability and quality of traditionally built buildings, being constructed to the latest Building Regulations and planning requirements.

General benefits when compared to traditional construction:

1. **Time:** The key advantage of modular construction is the significant time saving. On average, modular buildings are constructed circa 40-50% faster than the more traditional methods which can also result in an earlier return on investment.
2. **Cost:** Shorter build times generally result in reduced costs. In addition, costs are reduced further due to the units generally being planned, designed and fabricated in a single facility. Furthermore, on-site preliminary work and the off-site construction works can run simultaneously.
3. **Lower risk of cost overruns and delays:** Modular construction offers much higher cost and time certainty than traditional because of fewer risk factors that drive cost increases and delays. As major parts of construction are handled within a factory, weather conditions are often irrelevant during the majority of the project.
4. **Quality:** Modular buildings generally have tighter control of the production process due to a controlled factory environment. This in turn heavily reduces if not completely eliminates health and safety related risks common on construction sites.
5. **Less disruption:** Modular construction creates less noise, traffic, mess and therefore less disruption to the school.
6. **Adaptability:** Modular buildings benefit from being easily expanded, relocated and reused.
7. **Sustainability:** Sustainability has become an ever increasingly important consideration for planning authorities and developers as the social impact of construction is given greater importance. Modular buildings generally are considered to be less wasteful during the fabrication process; in addition due to the controlled fabrication process, modular buildings can lend themselves to being less wasteful as well as being better performing.

Aspects of modular construction to consider:

1. **Access:** As the modular units are manufacturer off site, the transportation on completion involves the use of large artic or flatbed lorries to deliver the structures. Careful consideration and planning is required to ensure access is achievable.
2. **Traditional construction is generally a lot more accommodating with late design changes with modular construction requiring final sign off at an earlier stage.**
3. **Hire cost vs purchase:** Typically, due to the hire costs of the units, the average hire period before it is more cost effective to purchase the units is around 4 years. The expected hire duration for the temporary

units at St Monica's is expected to be a maximum of 4 years, therefore hiring the units remains a viable option.

5.2. Preferred Option - Modular Classrooms

Due to the space restrictions on site, the following options represent the most feasible locations for the modular units, taking into consideration the specialist supplier's advice, whilst also minimising disruption to the school.

Area A' as per the site plan below, is suggested as the most appropriate location for the two permanent classrooms. This location provides better accessibility to the main school building with minimal travel distances for building occupants. Furthermore, as noted in the previous sections, the temporary units will gradually be reduced in numbers over a 4 year period; locating the permanent structures at the far end of the grassed area will ensure they will not impede on the eventual removal of the three temporary classrooms.



'Area B' as indicated on the above site plan, represents the suggested area on which to locate the three single temporary units. This location incurs longer travel distances to the main school buildings, however as the modular units will be provided with their own WC's, the units will be self-contained.

The modular classrooms are fabricated as either a double or a single as standard. The use of a double unit is recommended for the permanent 2no. classrooms as this will be the most advantageous in terms of space saving as well as being more economically viable as seen in section 5 of this Feasibility study.

As highlighted before, the three temporary classrooms will be removed one by one and as a result the classrooms need to be easily separated, ultimately down to a single unit. Therefore, it is suggested that three individual modular classrooms are hired for agreed timescales which will provide flexibility to remove the structures as and when required.



The above image demonstrates a potential layout for the modular buildings (blue representing the permanent double unit and green the 3no. single units). Exact locations to be agreed with the school.

Modular buildings are flexible in their design and can be manufactured to requirement. Typical classroom layouts including fixtures and fittings are available in Appendix F.

5.3. Alternative Options Explored – Locations

An option considered was to utilise the Southern area of the staff carpark (see image above for reference) to locate temporary classrooms. This option was rejected as parking capacity on the site is limited in its current state and once the two schools have consolidated onto a single site, staff numbers will also increase, resulting in increased parking requirements which this would negatively impact.

Another option considered was to locate temporary classrooms on the Northern end of the hardstanding playground. This option was also rejected due to the complexity involved with manoeuvring the large units to this inaccessible area, in addition, travel distances to the main school buildings would have been too far.

5.4. Traditionally Built Extension / New Build

An option to provide a traditionally built extension or new build permanent classrooms was considered early on in the Feasibility.

The below highlights possible locations for traditionally-built extension/new build classrooms. The surrounding ground levels and boundaries restrict extension of the existing buildings elsewhere on site without substantial landscaping and releveling of grounds.

Option 1 – Extension of existing Annexe to provide two additional 56m² classrooms.



Option 2 – Newly built teaching block provided with two 56m² and self-contained WC's including additional storerooms.



Following discussions with Southampton City Council it was concluded that modular construction was the preferred option to explore in greater detail, principally due to time constraints which require full use of the classrooms by September 2022 (this date has had to be pushed back due to delays with funding). Traditional masonry-built options were therefore not considered further as part of this Feasibility study.

6. Costings

Following consultation with modular building suppliers, the following costs have been estimated based on purchasing as well as hiring the units.

Hire cost of a Double Classroom Building (based on McAvoy's rates which were the more economically advantageous)

	Cost
Weekly Hire	£550.00
Delivery and installation	£15,000.00
Foundations and drainage	£25,000.00
Service connections currently assumed by other	-

Purchase cost of a Double Classroom Building (based on McAvoy's rates)

	Cost
Purchase of Unit	£195,000.00
Delivery and installation	£15,000.00
Foundations and drainage	£25,000.00
Service connections currently assumed by other	-

Hire cost of a Single Classroom Building (based on McAvoy's rates)

	Cost
Weekly Hire	£360.00
Delivery and installation	£10,000.00
Foundations and drainage	£15,000.00
Service connections currently assumed by other	-

Purchase cost of a Single Classroom Building (based on McAvoy's rates)

	Cost
Purchase of Unit	£119,000.00
Delivery and installation	£10,000.00
Foundations and drainage	£15,000.00
Service connections currently assumed by other	-

As part of the installation process, further queries were raised in regard to what was included/not included within the above weekly hire costs, the following items were confirmed:

1. Ramp access to the Classrooms – Included, although it may be possible to provide level access.
2. Air Conditioning – Included.
3. Emergency Lighting – Included.
4. Fire Alarm – Standalone system included, would need to be linked with the school's system.

5. Intruder Alarm – £80/week extra – Not included in the above weekly hire costs, however included in below project budget costs.
6. Fire Extinguishers – Not included, circa £35/week extra
7. Data points and interactive whiteboard with projector – Data points included but projector is not.

Based on the above costs and the suggested quantity/layout of modular classrooms (2no. permanent and 3no. temporary for timescales indicated in Section 1 of this report), the following cost predictions are detailed:

Item	Total Cost
1no. double unit purchased Inclusive of foundations, installation and delivery	£235,000.00
3no. single units hired based on agreed timescales. Inclusive of foundations, installation, delivery and removal	£300,000.00
Intruder alarm allowance for hired units	£16,600.00
Removal of concrete foundations at end of hire period and make good	£13,500.00
M&E Costs (see Appendix C)	£114,400.00
Civil / Drainage Costs (Assumed soakaway) – Prov. sum	£25,000.00
Facilitating Works – Temporary removal of fencing and reinstatement on completion	£10,000.00
Landscaping making good on completion	£5,000.00
ICT Connections	£5,000.00
Furniture	Excluded
Sub-total	£724,500.00
Inflation of 2.6% based on BCIS indices Q2 2021 – Q4 2022	£20,600.00
The Works Sub-total	£745,100.00
Contractor's Preliminaries @ £2,400/week, 9 weeks	£21,600.00
Contractor's OH&P @10% (not inclusive of hired cost)	£45,000.00
Contingency 12% (increased contingency allowed for to cover risk of uncovering ACM's during the ground investigations of the made-up ground)	£97,400.00
Projected Construction Costs	£909,100.00
Professional Fees (10%) – Subject to formal quotation from supply chain	£90,900.00
Additional Survey (GI, ecology, arboricultural, etc) - Prov. sum	£15,000.00
Statutory Costs	£1,500.00
Internal SCC Project Management (circa 1%)	£10,000.00
Project Total Cost (excl. VAT)	£1,026,500.00

The estimates have allowed for the following:

- Works to be completed during normal working hours.
- An estimated fee for building regulations approval has been used.
- Provisional sum allowances have been used where exact quantities are unable to be determined.

- Professional fees are subject to formal quotations being received from supply chain. (Structural, M&E, H&S, Civil). A lower percentage of 12.5% has been used due to the hired costs which need to be considered.
- Contingency has been increased (12%) to allow for shortages as a result of Covid-19.
- Contractor's OH&P's do not include the hired costs of the 3 units.

7. Statutory Consultation

7.1. Planning

Planning consultation will be required in the next stages of design. A planning pre-application is suggested to be completed early on.

Full Planning permission will be required for the proposed works. Southampton City Council are the responsible planning authority.

7.2. Building Control

Building Control consultation will be required in the next stages of design. Modular buildings to be manufactured in accordance with current UK Building Regulations.

8. Risk and Programming

8.1. Risks

See Appendix G for full Feasibility Stage Risk Register.

8.2. Programming

Please refer to Appendix H for Feasibility Stage programme.

Current lead in times for modular units is between 12-14 weeks from date of order. As previously noted, the preliminary works including laying of foundations, preparation of service connections, etc, can be undertaken during the fabrication process which is done wholly off-site.

Due to a delay in funding, the Feasibility Stage programme anticipates a completion date of the end of October 2022. The overall delivery of the project is achievable however careful coordination with the school will be necessary to ensure works are safely carried out during term time. The programme has been developed to utilise the summer holiday period for the more intrusive works, including M&E works and laying of foundations, thus minimising any disruption to the school.

9. Summary

The options explored within this report provide a detailed overview of considerations made throughout Feasibility. However following consideration and consultation with Southampton City Council, modular construction was the method reviewed in fuller detail due to project's time constraints which prevented traditional construction techniques from being considered.

Modular construction is the most practical solution to the increased number of classrooms required within a short timeframe.

The most appropriate location for the units has been determined to be the large, mostly unused grassed area located south of site.

A total of 5no. classrooms are required, 2no. of which will be permanent additions to the schools, with the other 3no. being removed separately over the course of a 4-year period (2023-2026).

The exact locations of the units are to be agreed with the Client in the next stages of design, including exact design requirements for the classrooms and associated spaces. It should be noted that once orders have been placed with the manufacturing company and the fabrication process has begun, there would be no flexibility with late design changes.

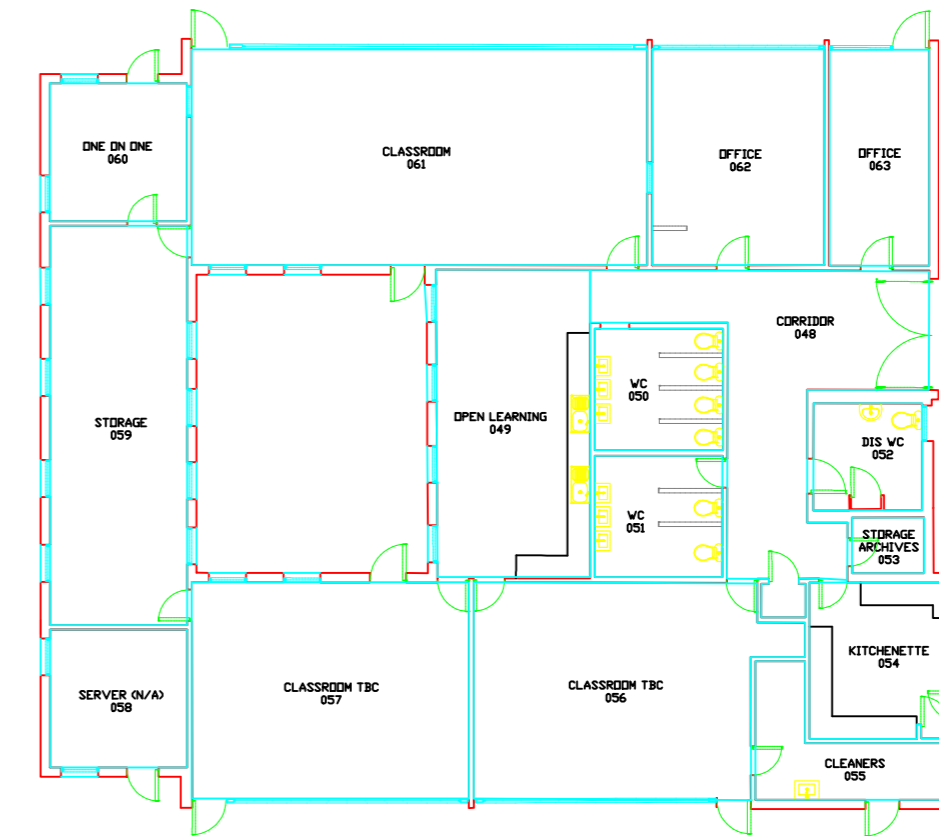
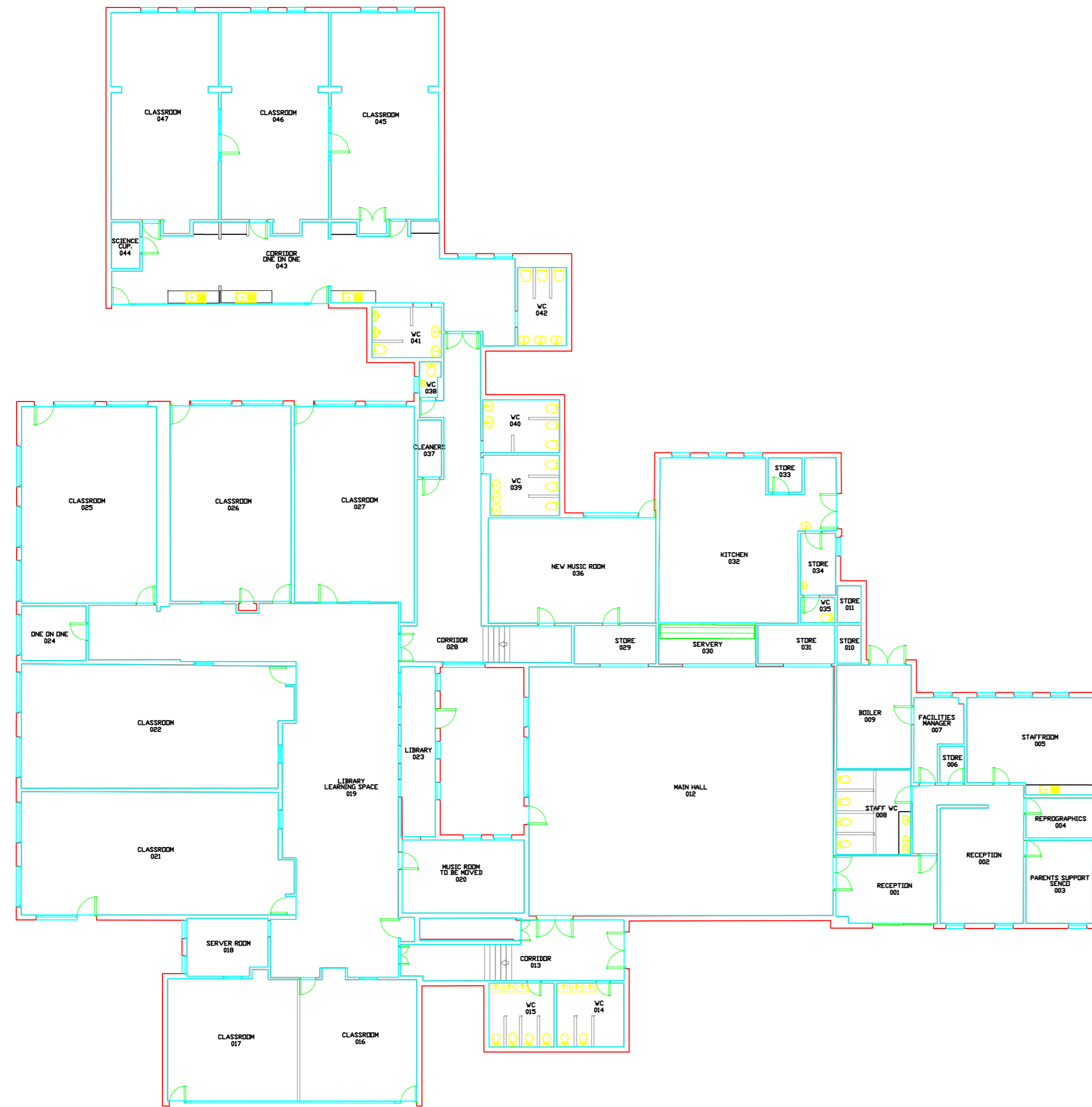
Early consideration is to be given to planning and ground investigations to de-risk the project early on in the design stage.

Appendices



Appendix A. Measured Survey

1. THE DETAILS SUPPLIED ON THIS DRAWING HAVE BEEN BASED ON INFORMATION CAPTURED ON SITE
2. THE DRAWING AND INFORMATION SUPPLIED HEREIN HAS BEEN PREPARED SOLELY FOR THE CLIENTS USE
3. DO NOT SCALE FROM THIS DRAWING.
4. ALL MEASUREMENTS ARE IN METRES UNLESS STATED OTHERWISE.



Rev. Date Description By Ck'd App'd

DRAFT



JAMES PATRICK DOUGHERTY
 ARCHITECTS
 10 BUSHY GARDENS
 WESTON-SUPER-MARE
 BRISTOL
 BS23 3EJ

PROJECT: SOUTHAMPTON NET CAPACITY ASSESSMENT

DRAWING TITLE: ST MONICAS PRIMARY SCHOOL GROUND FLOOR

SCALE	DESIGNED	DRAWN	CHECKED	APPROVED
1:50@A2	---	SD	EH	CP
	DATE	DATE	DATE	DATE
	17/06/2021	01/06/2021	08/06/2021	17/06/2021

Appendix B. Net Capacity Assessment



Please read the Net Capacity guidance (DfES/0739/2001) before filling in this form for the first time. This form can be used to assess any primary, middle deemed primary or first and middle school. It is easiest to use the computer spreadsheet, available at www.dfes.gov.uk (search for 'netcapacity'). Use this page to identify the basic information required. List all spaces in the Net Area Schedule on page 2 (following the notes on the facing page). All boxes shaded in grey will be worked out automatically in the computer spreadsheet. The 'Declaration of Accuracy' should be signed by the Head Teacher and a representative of the Local Education Authority.

School Details

LEA

DfES LEA/school number date

school name

age range to

first admission year

normal year of admission for instance 'Y2' or 'R' if reception (do not include nurseries: see below)

number of years a number of years that those in the admission year will be at this school (e.g. '7')

planned admission number b if known (allowing for infant class size limits)

number of age groups n (a + e + h)

If applicable: complete the boxes below if the school is on a small or split site or has more than one year of admission.

no. of sites

total site area (m²) m

(second admission year, if applicable)

(third admission year, if applicable)

c: f

d: g

e: h

$e = (c \times d) / b$ $h = (f \times g) / b$

If applicable: Description of

LEA designated Early Years and Childcare provision, if any

non-school and support provision, not normally available to the school during the school day

including the age range and the number of places involved. Enter area in 'net area' column and note with an 'E' at step 4

LEA designated specially resourced facilities, if any

non-school facilities (such as a community library, multi-agency facilities, or youth centre) or support facilities (such as an SEN support centre or a Learning Support Unit). Include the number of any additional specially resourced places, if applicable. Enter area in 'net area' column and note with an 'R' at step 4

LEA designated adult learning facilities, if any

(such as City Learning Centres, teacher training, or other Lifelong Learning facilities). Enter area in 'net area' column and note with an 'A' at step 4

Net Area Schedule (and allocation of workplaces)

DfES no. 852/2428

school name St Monica Primary School

STEP 1				STEP 2		STEP 3		STEP 4	
Room Reference	Room Name (based on the activities the room is designed or equipped to accommodate)	'Non-Net' Area, if known (m ²)	Net Area (m ²)	general	specialist	Basic Workplaces	Resource Workplaces	Status	
TOTALS			397	1451	34	9	532	202	
001	Reception		16	1		0	8		
002	Reception		32	1		19	0		
003	Reception		13	1		0	6		
004	Reprographics		7	1		0	2		
005	Staff Room		28	1		16	0		
006	Store	2							
007	Facilities Manager	8							
008	Staff WC	19							
009	Boiler	19							
010	Store	2							
011	Store	2							
012	Main Hall		184	0	1	30	5		
013	Corridor		26	1		15	0		
014	WC	10							
015	WC	10							
016	Classroom 16		37	1		22	0		
017	Classroom 17		37	1		22	0		
018	Server Room		11	0	1	0	1		
019	Library learning space	70	70	1		30	14	C	
020	Music room to be moved		22	0	1	0	5		
021	Classroom		79	1		30	20		
022	Classroom		79	1		30	20		
023	Library		14	1		0	7		
024	One on One		9	1		0	3		
025	Classroom		65	1		30	11		
026	Classroom		58	1		30	6		
027	Classroom		58	1		30	6		
028	Corridor	44	9	1		0	3		
029	Store		8	1		0	3		
030	Servery		10	0	1	0	1		
031	Store		7	1		0	2		
032	Kitchen	59							
033	Store		3	1		0	1		
034	Store		5	1		0	1		
035	WC	2							
036	New music room		43	0	1	0	14		
037	Cleaners		3	1		0	1		
038	WC	2							
039	WC	11							
040	WC	10							
041	WC	9							
042	WC	9							
043	Corridor/ one on one	36	36	1		0	0	C	
044	Science Cup		3	0	1	0	1		
045	Classroom		55	1		30	4		
046	Classroom		55	1		30	4		
047	Classroom		55	1		30	4		
048	Corridor		35	1		21	0		

Capacity Calculation

	Basic Workplaces	Resource Workplaces	
Workplaces Not Included in Capacity Calculation (if measured)			
parents/community room	0	0	workplaces in space marked 'P' at step 4, only one per school
early years and childcare facilities	0	0	workplaces in spaces marked 'E' at step 4, as described under School Details
specialised resourced facilities	0	0	workplaces in spaces marked 'R' at step 4, as described under School Details
adult learning facilities	0	0	workplaces in spaces marked 'A' at step 4, as described under School Details

All calculations below should be **rounded down** to the nearest whole number.

Workplaces Included in Capacity Calculation

totals of all workplaces except those shown above as excluded or marked 'W' at step 4

capacity based on classbases	<input type="text" value="51"/>	r	basic workplaces in spaces marked 'C' at step 4, or $((p + q) \times 70\%)$, if lower
basic workplace allowance	<input type="text" value="75"/>	s	$(75 \times l)$, plus 50 if (m) is less than $(1500 + (15 \times r))$
maximum workplaces available	<input type="text" value="319"/>	v	(r), or $((p - s) \times 70\%)$, if higher
minimum workplaces available	<input type="text" value="287"/>	w	lower of $(v \times 90\%)$ and v rounded down to nearest multiple of $(30 \times n / 4)$
capacity based on planned admission no.	<input type="text" value="630"/>	x	$(b \times n)$

Net Capacity

if x is more than v, then $y = v$
if x is between v and w, then $y = x$
if x is less than w, then $y = w$

first admission year z (y / n) rounded down (n, c, e, f and h as calculated under School Details)

(second admission year, if applicable)
(third admission year, if applicable)
applicable)
 $(z \times e) / c$ $(z \times h) / f$

Declaration of Accuracy

We confirm that we are satisfied with the accuracy of the information given under School Details and

Signature of Head Teacher	<input type="text"/>	Date	<input type="text" value=""/> / <input type="text" value=""/> / <input type="text" value=""/>	Signature on behalf of Local Education Authority	<input type="text"/>	Date	<input type="text" value=""/> / <input type="text" value=""/> / <input type="text" value=""/>
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Appendix C. Mechanical and Electrical Engineer's Report





ST MONICA'S PRIMARY SCHOOL EXPANSION M&E INFRASTRUCTURE FEASIBILITY REPORT

SS and A
22.06.2021

Contents		Page
1.0	EXECUTIVE SUMMARY	2
2.0	INTRODUCTION	3
3.0	INFRASTRUCTURE SERVICES.....	4
3.01	LV	4
3.02	Gas	6
3.03	Water	7
3.04	Fire Alarm	8
3.05	Communications	9
4.0	SCOPE OF WORKS & BUDGET	10

Rev	Engineer	Date	Reviewer	Date	Issued
1	M. Smith	18.06.2020	S. Sodha F. Stringer	21.06.2020	22.06.2020

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1.0 EXECUTIVE SUMMARY

SS and A were commissioned by Faithful & Gould to carry out a survey to determine the existing utility infrastructure at St Monica's Junior School to determine whether it is feasible to expand the existing school to include the Infant School, which is currently located in Bay Road.

The proposal is to provide 5no (1x double and 3no singles) temporary portacabin type classrooms and toilet provision on to the southwest grass area of the site, adjacent to the Annexe.

The report has considered the following after a non-intrusive survey undertaken on the 2nd June 2021;

1. Electricity
2. Water
3. Comms
4. Gas
5. Fire Alarm

Following the assessment, the table below schedules out the expected works:

Item	Description	Budget Cost exc VAT
1	Prelims	£7,500
2	Validations - Validate mechanical and electrical services including	£5,000
	• Fire alarm system cause and effect and connection configuration.	
	• Mains Cold Water Supply	
	• Electrical Supply confirming LV Infrastructure capacity	
3	Provide new LV supply – Provide new 250A supply, GRP enclosure, Feeder Pillar and new LV supplies to both the portacabins and existing school. (this does not include major infrastructure upgrade by UKPN)	£59,000
4	Provide new LV panel board – Strip out existing panel board and supply and install new panel board, connecting existing supplies	£10,000
5	Provide new water supply – Provide new water supply from the driveway to the portacabins.	£5,000
6	Provide new fire alarm supply – Provide fire alarm supply from the repeater panel to the new portacabins.	£10,000
7	Provide new comms supply – Provide a comms supply from the comms room in the Annexe building.	£2,500
8	Builders Work in Connection (BWIC)	By others
9	Testing and commissioning including record information.	£5,000
	SUB TOTAL	£104,000
	General Contingency at 10%	£10,400
	Total (Excluding VAT and Professional Fees)	£114,400

2.0 INTRODUCTION

SS and A has been appointed to undertake a feasibility study to understand the mechanical and electrical infrastructure and the works necessary to allow expansion of the St Monica's Junior School.



Saint Monica Primary School 69 St Monica Rd, Sholing, Southampton SO19 8ES

Southampton City Council wish to review how feasible it is to add the Infant School (located in Bay Road) on to the existing school in St Monica Road by implementing either 1x double classroom and 3x single classrooms with ancillary areas. Whist this report is based on the 5x portacabins, the infrastructure required would largely be the same as a fixed solution.

SS and A attended site on 2nd June 2021 to undertake a non-intrusive survey of the existing infrastructure.

3.0 INFRASTRUCTURE SERVICES

3.01 LV

Existing System Description

A Three Phase & Neutral utility supply enters the school in the electrical intake cupboard just behind/north of the main reception. The service head, which is an old Lucy Oxford, suggests that it has 3x 300A fuses however the schematic (Figure 2) below and the size of the incoming cable suggests it is likely that the supply lower. Size of supply and fuses would need to be confirmed by UKPN via a Nature of Supply application.

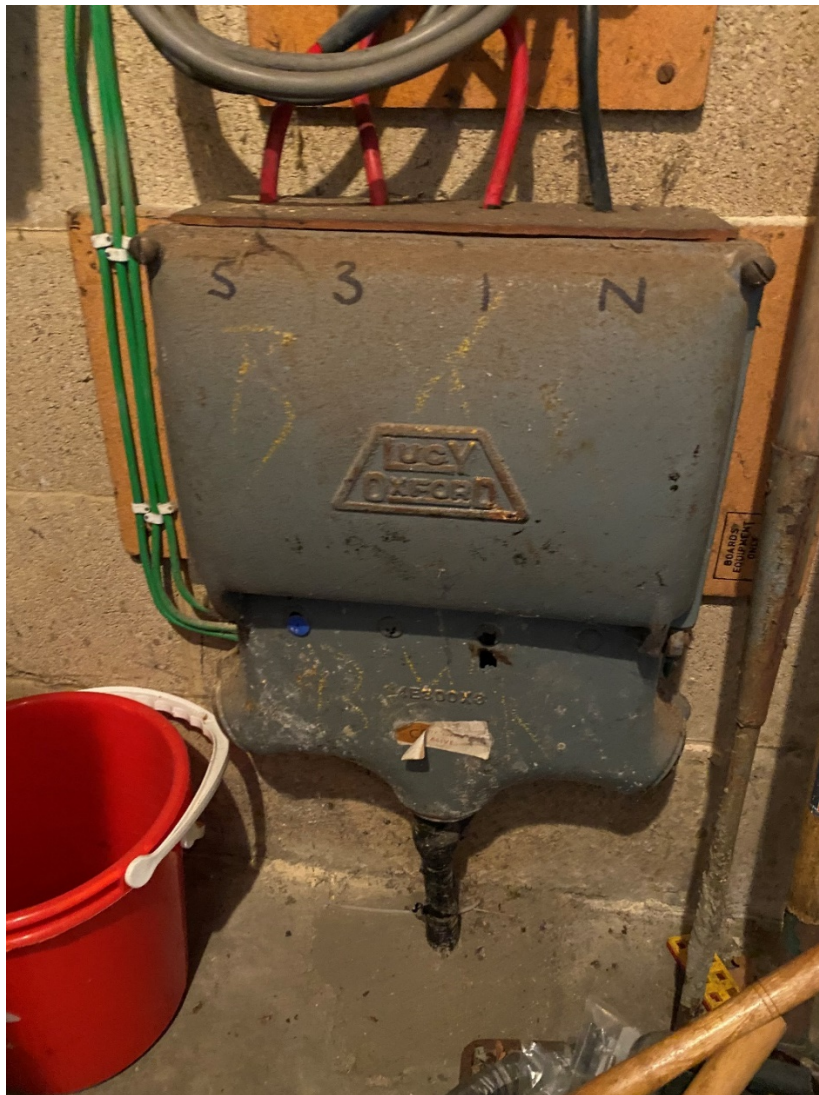


Fig 1 – Incoming Electricity Service Head

From the service head, the supply enters an old 150A Ottermill panel board (Figure 3), this board and its components are aged and obsolete.

Design Considerations

Schools usually require approximately 30W/m² of power, the current school based on an assessment using Google Earth is 2,200m² and therefore would require an approximate 66kW, equating to 73kVA or 104A Three Phase.

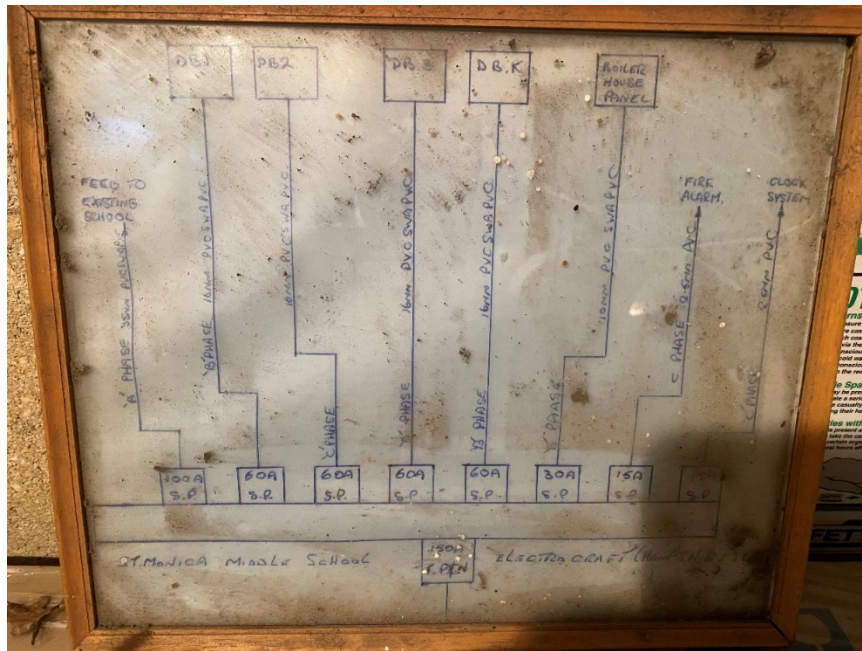


Fig 2 – Electrical Schematic



Fig 3 – Ottermill Panel Board

For calculation purposes the proposed expansion of the site includes 3x double classrooms at 135m² and each double classroom having an associated 35m² of common/ancillary area. However, electric heat pumps for heating could increase the electrical load for the extension areas as follows;

Item	Area and Allowance	Approximate Watts / Amps Three Phase
	Classroom (330m²)	
1	Small Power at 15W/m ²	4,950 / 7.8
2	Lighting at 8W/m ²	2,640 / 4.2
3	AC at 40W/m ²	13,200 / 21
	Common Area (90m²)	
4	Lighting at 5W/m ²	450 / 0.8
5	Electric Heating at 80W/m ²	7,200 / 11
6	Hot Water – based on 8no 2kW Hot Water Heaters (with diversity)	12,800 / 20
7	Hand Dryers – based on 3no 1.2kW (with diversity)	1,200 / 1.9
	Sub Total	42,440 / 67
	25% Spare Capacity	10,600 / 17
	Total	53,040 / 84

Conclusion & Recommendations

Based on the future load requirements of the extension at 84A and the existing capacity assumed at 104A, the following next steps are recommended;

1. Liaise with the local District Network Operator (DNO – SSE/UKPN etc) to understand the size of the existing infrastructure via a Nature of Supply application. This includes both the fuses and the incoming cable load capability.
2. Allow for upgrading the existing incoming electrical infrastructure with a minimum 200A incoming supply. Allowance should be made for a new supply, to terminate in a GRP enclosure with a metered service head and cut out. It may be that the incoming cable is rated close to or over the required loads, however this will need to be determined.
3. Provide 400A rated MCCB panel board adjacent to incoming supply fitted with 1no 125A supply to existing school and 1no 160A supply to feeder pillar for classroom.
4. Allow for 2no submains - 1no to the new portacabins and 1no new supply to the existing electrical switch cupboard to replace the existing incoming supply.
5. It is unclear as to how double and single classrooms will be connected electrically, however it may be prudent to allow for an additional feeder pillar to then provide 3-5no isolated supplies or a feed to each portacabin direct from the new MCCB panel.
6. Allow for a new LV panelboard to replace the existing aged and obsolete panelboard and to reconnect and test the existing school supplies.

3.02 Gas

Existing System Description

An 80mm utility gas supply enters the school in a gas cupboard adjacent to the incoming electrical intake cupboard. The supply passes through a gas meter and from the meter to the gas burning appliances including the boilers.

The meter is of a diaphragm type and allows a maximum 3531ft³ per hour (approx 1,100kW) of gas capacity. The size of gas supply (3" or 80mm) would suggest a maximum capacity supply of approximately 585kW.



Fig 4 – Gas Meter

The current connected capacity appears to be an HWS gas fired hot water heater at 24.4kW and 2no gas fired boilers at 124kW each (although 1no is not operational) totalling 272.4kW.

The extension at 120W/m² for the classrooms and 80W/m² for the common area would require an additional 57kW.

Design Considerations

Based on the school area at 2,200m² and school's gas requirements typically ranging between 125 - 200W/m² a total gas requirement of 440kW would be required.

Conclusions & Recommendations

For reporting purposes it is unlikely that gas would be used as the primary fuel source for heating of the new proposed portacabins as confirmed by both Portcabin and McAvoy's. It should be noted however that the system does have spare capacity, should a fixed solution be required.

3.03 Water

Existing System Description

A water supply enters the school at the the other entrance to the building off St Monica Road, where the meter is located in a dedicated pit. It was difficult to ascertain the size of the incoming supply due to the meter pit being filled with earth as seen in Figure 5 below.



Fig 5 – Water Meter

It was noted that the school are currently using bottled water for drinking, as the existing system appears to have high iron levels due to steel pipework rusting.

Design Considerations

Initial calculations suggest that the existing water loading units at 210LU are the equivalent to a 54mm supply. The extension will require an estimated 120 additional loading units, which is still within the capacity of a 54mm supply at a velocity of 1.5m/s.

Conclusions & Recommendations

The existing supply should be investigated further to determine the type of supply pipe in the ground. As a minimum, it is recommended that the following works are be undertaken:

1. A new water supply shall be connected to the existing supply in the driveway and a new PE water supply pipe should be routed in the ground to serve the Portacabins.

It is prudent to review the issues relating to the high iron levels in the domestic water systems, however we assume this will be addressed separately.

3.04 Fire Alarm

An existing fire alarm is provided with a main fire alarm panel in the main building, connecting to a repeater panel in the Annexe building. The fire alarm is of the analogue addressable type.

Design Considerations

Consideration needs to be given to the interface between any new system and the existing system and whether this can be undertaken including validations of the current devices connected. It is believed the JUNO 1-3 fire alarm currently installed utilises Apollo protocol/intelligence which is a common protocol and therefore a good chance to be compatible with the portacabin system.



Figs 6&7 – Main Panel and Repeater Panel respectively

Conclusions & Recommendations

The existing services should be investigated further to determine the capacity however, the following works are recommended:

1. A dedicated fire alarm system shall be provided for the proposed extension. This system shall be connected to the existing repeater panel in the Annexe building routed at high level across to the new portacabins.

3.05 Communications

An existing comms room is located in the far west room of the Annexe building. We are advised that this is being upgraded and the new system shall have sufficient capacity to connect the new portacabins.

Conclusions & Recommendations

The existing services should be investigated further to determine the capacity, however the following works are recommended:

- A new comms supply shall be connected to the existing comms room server in the Annexe building routed at high level across to the portacabins.

3.06 General

It would be prudent to obtain Utility Searches at the next stage to understand the local utility infrastructure and a Cat Scan to determine the below ground services in and around the school.

4.0 SCOPE OF WORKS & BUDGET

Having surveyed the site and undertaken initial load calculations, the proposed infrastructure works are summarised in the image below:

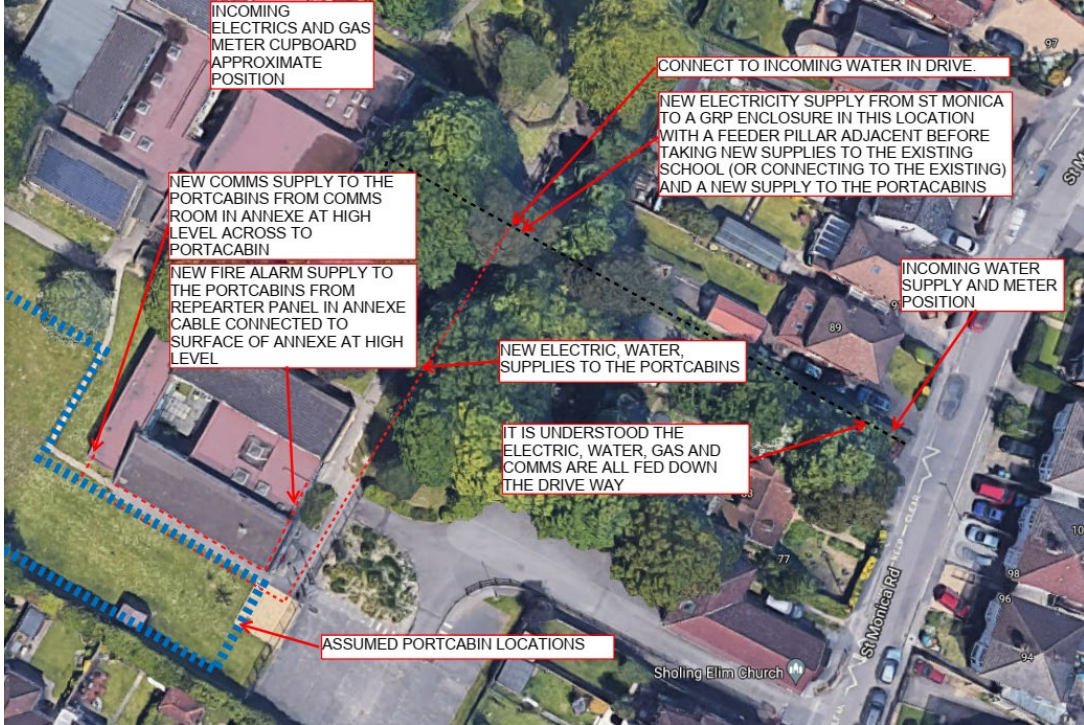


Fig 8 – General Infrastructure Works

A proposed schedule of works and potential costs are set out below:

Item	Description	Budget Cost exc VAT
1	Prelims	£7,500
2	Validations - Validate mechanical and electrical services including	£5,000
	• Fire alarm system cause and effect and connection configuration.	
	• Mains Cold Water Supply	
3	• Electrical Supply confirming LV Infrastructure capacity	£59,000
	Provide new LV supply – Provide new 250A supply, GRP enclosure, Feeder Pillar and new LV supplies to both the portacabins and existing school. (this does not include major infrastructure upgrade by UKPN)	
4	Provide new LV panel board – Strip out existing panel board and supply and install new panel board, connecting existing supplies	£10,000
5	Provide new water supply – Provide new water supply from the driveway to the portacabins.	£5,000
6	Provide new fire alarm supply – Provide fire alarm supply from the repeater panel to the new portacabins.	£10,000

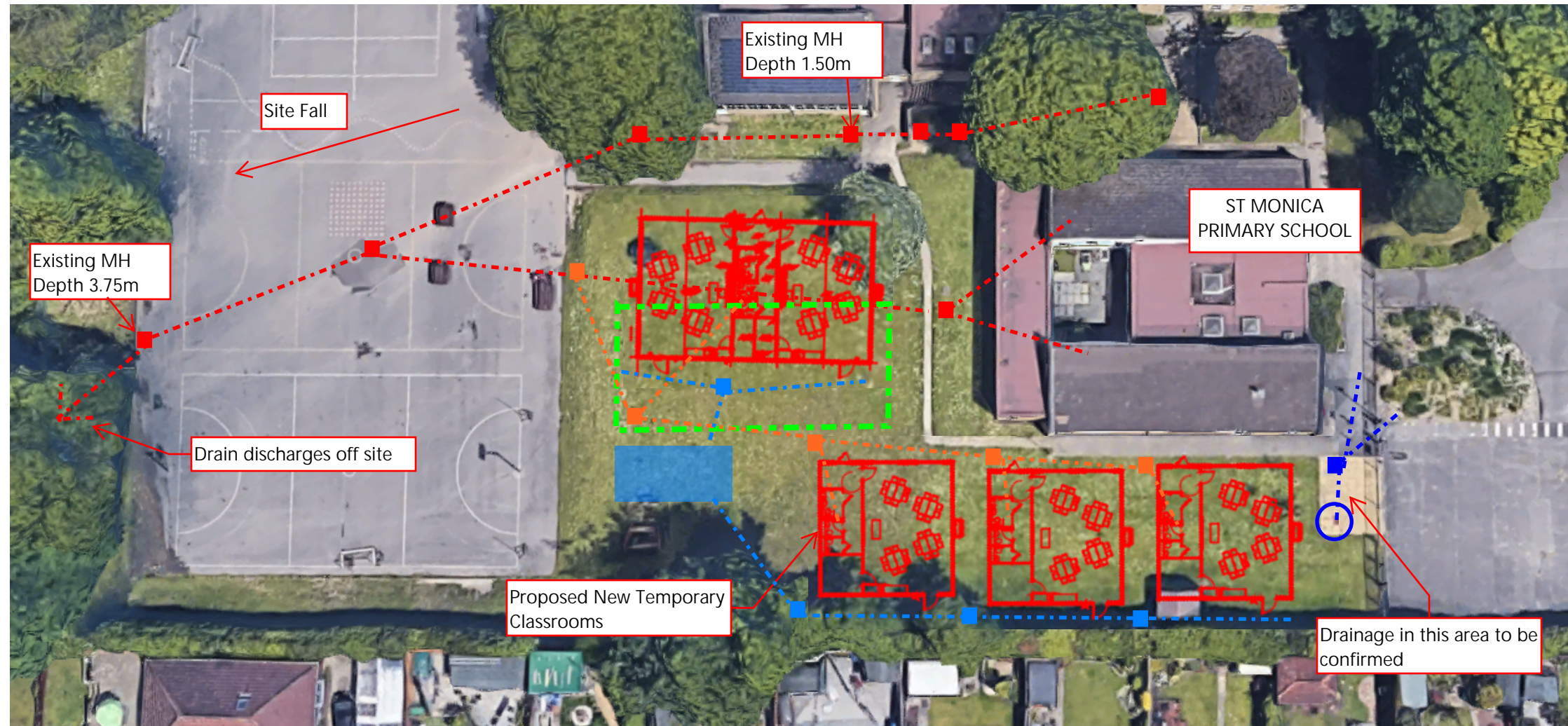
7	Provide new comms supply – Provide a comms supply from the comms room in the Annexe building.	£2,500
8	Builders Work in Connection (BWIC)	By others
9	Testing and commissioning including record information.	£5,000
	SUB TOTAL	£104,000
	General Contingency at 10%	£10,400
	Total (Excluding VAT and Professional Fees)	£114,400

*Costs do not include asbestos or ground surveys, builders work, trenching or M&E works within the portacabins (i.e. plug in and play).

Appendix D. Civil Engineer's Report



Notes



- - - - Existing Foul/Combined Drains
- Existing Soakaway
- - - - Existing Surface Drains
- - - Location of Former Swimming Pool
- - - Proposed Surface Drains
- - - Proposed Foul Drains
- Proposed Soakaway

All drain routes between manholes assumed.

DRAINAGE STRATEGY:

The existing site has a foul system that discharges to the south corner of the site. This is assumed to connect into the adopted drain system surrounding the site

It is not clear, but we assume that part of the site is combined, with surface water connecting into this system.

We have located a soakaway to the north east corner of the site adjacent to the car park. This indicates that infiltration is viable on the site.

We would recommend a full drainage survey of the existing network is undertaken. This will include levels, pipe sizes, condition.

We would also recommend undertaking site ground investigations to determine the ground conditions for foundation design and to determine an infiltration rate for the design of new soakaways.

Care will need to be taken around the location of the former swimming pool.

If soakaways are not viable, an attenuated drainage system will be required discharging to a surface water sewer or a ditch.

P01	--	RDH	RH	RH	05.07.21
Rev.	Amendment	Drn.	Chkd.	Appd.	Date

St Monica Primary School

Phase 1 Drainage Strategy

Scott White and Hookins
 Structural Engineering | Civil Engineering | Sustainability and BREEAM | CDM Consultancy

Scale at A3 1: NTS

DO NOT SCALE FROM THIS DRAWING

303380-SWH-XX-XX-DR-C-500 P01					
Project		Originator		Zone	
		Level		Type	
		Role		Number	
		Rev.			

Appendix E. Schedule of Photographs



School Entrance road. Timber fence to be temporarily removed.



Entrance gates to be temporarily removed.



Yellow pedestrian fence to be temporarily removed.

St Monica Road – Access route which will require temporary parking restrictions in place on day of modular building delivery.



Staff Carpark – Proposed location for crane to life modular units.



Grassed 'Area A' – Proposed location for permanent Modular Unit (1no. double classroom)



Grassed 'Area B' – Proposed location for temporary Modular Units (3no. single classrooms).

Trees to the left of the photograph to be considered for tree root protection zones.

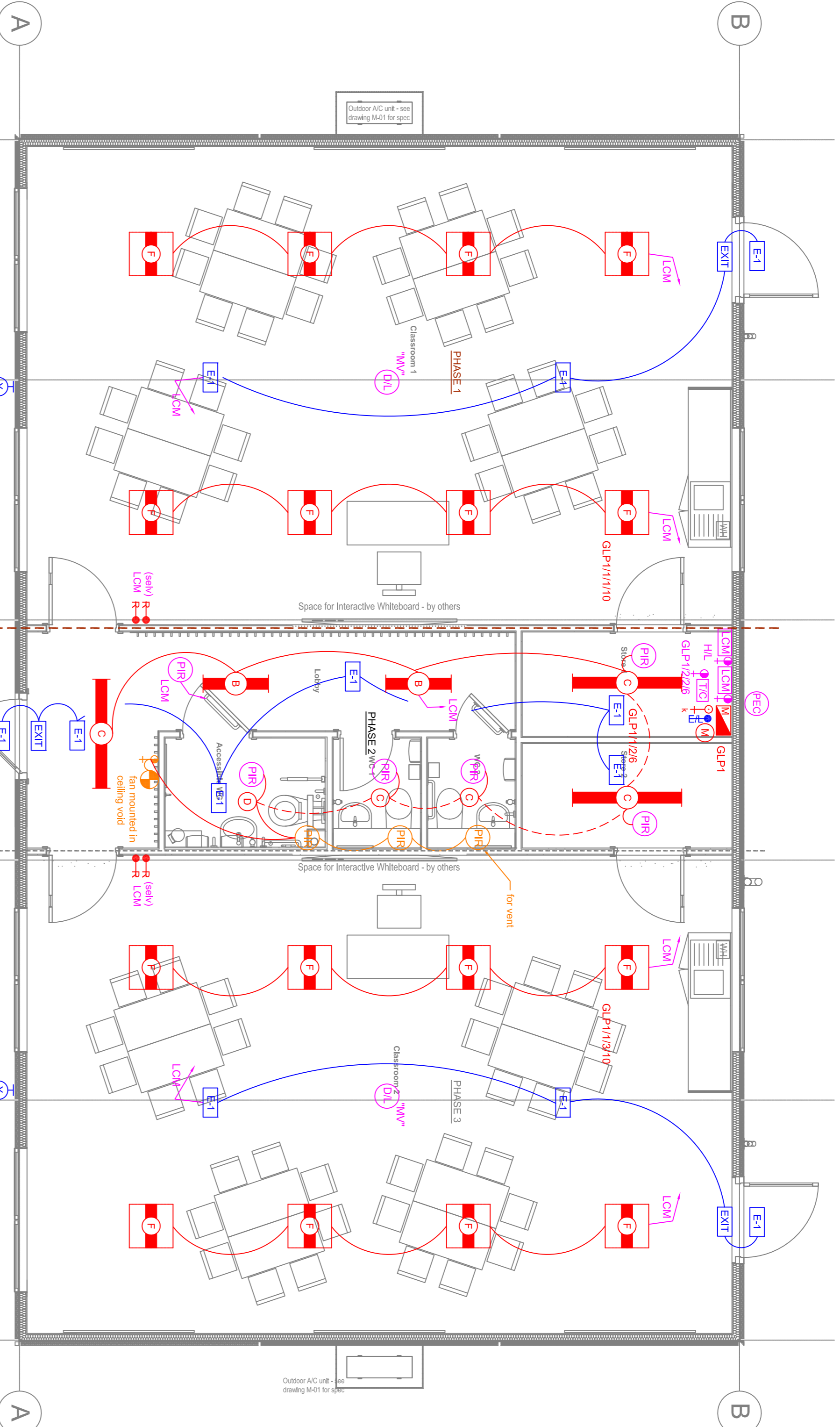
Appendix F. Modular Classroom Layouts



SCHEDULE OF LUMINAIRES

REF.	DESCRIPTION	MANUFACTURER
A	30W LED SURFACE MOUNTED LUMINAIRE (6W PRISMATIC DIFFUSER & (H183Lm))	THORN PRISMA 4000K, 0.80 RENDERING
B	16.3W LED SURFACE MOUNTED LUMINAIRE (6W PRISMATIC DIFFUSER & (2013Lm))	THORN PRISMA 4000K, 0.80 RENDERING
C	30W LED SURFACE MOUNTED LUMINAIRE (6W PRISMATIC DIFFUSER & (H183Lm))	THORN PRISMA 4000K, 0.80 RENDERING
D	14W SURFACE MOUNTED LED BULKHEAD (1000Lm))	THORN CLUB OR EQUAL & APPROVED.
G	27.2W SURFACE MOUNTED LED BULKHEAD (1340Lm))	THORN LORE OR EQUAL & APPROVED.
F	141W RECESSED MODULAR LED LUMINAIRE (3000 lm) DIMMABLE (control pack). *E denotes with 3 hour storage pack.	4000K, 0.80 RENDERING
YE	140W SURFACE MOUNTED LUMINAIRE (6W OPAL DIFFUSER & VISOR). *E DENOTES (6W 3H) RECESSED LED DOWNLIGHT	THORN EYEKON
EXIT	141W LED (STRIP) WALL MOUNTED INTEGRAL POWER PACK	THORN VOYAGER SIGNAL LED
E1	148W SURFACE MOUNTED BULKHEAD (6W 3H) POWER PACK	THORN VOYAGER
E	SURF. *E DENOTES INTEGRAL 3H+ EMERGENCY POWER PACK	
TMV	OCCUPANCY SENSOR (4W DAYLIGHT SENSOR (TMV) DENOTES (MICROWAVE)	
TMV	OCCUPANCY SENSOR (TMV) DENOTES (MICROWAVE)	
LCM	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	
LCM	7-DAY PROGRAMMABLE TIMELOCK & EXTERNAL PHOTOCELL (SCHEDULED LIGHTING (MOTION SENSING (M))	
MC	DENOTES KEYSWITCH (HOK) DENOTES HANDOFF(AUTO). *M DENOTES MAINTENANCE)	
M	MID POSITION RETRACTIVE LIGHT SWITCH	
FE	E LIGHTING TEST SWITCH	
GLP	GLP 1 TRIP UNIT LOAD GENERAL BOARD. *M DENOTES SEPARATE TERMINALS (ON POWER & LIGHTING INSTALLATIONS)	
	DENOTES CONNECTION TO LOCAL EXTRACT VENTILATION. (TBC WITH MECH. CONTRACTOR)	

REF.	DESCRIPTION	DEVICE
1	GLP 1 TRIP UNIT LOAD GENERAL BOARD. *M DENOTES SEPARATE TERMINALS (ON POWER & LIGHTING INSTALLATIONS)	10
2	DENOTES CONNECTION TO LOCAL EXTRACT VENTILATION. (TBC WITH MECH. CONTRACTOR)	6
3	7-DAY PROGRAMMABLE TIMELOCK & EXTERNAL PHOTOCELL (SCHEDULED LIGHTING (MOTION SENSING (M))	10
4	OCCUPANCY SENSOR (TMV) DENOTES (MICROWAVE)	6
5	OCCUPANCY SENSOR (TMV) DENOTES (MICROWAVE)	6
6	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	16
7	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	16
8	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	16
9	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	16
10	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	16
11	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	16
12	LIGHTING CONTROL MODULE (6W SELV MODULE & ENCLOSURE	16



NOTES

GENERAL NOTES:
 All electrical installations shall be wired utilizing EX200 QM4 SF 7mm and (asym) installed on cable tray/drip and LRV/C consult for drops. Lighting circuit wiring shall be a minimum size of 1.5mm² with separate 1.5mm² CPC.
 All conduit drops to have 25% spare capacity.
 Light fittings should incorporate lamps which provide good colour rendering properties (Ra of 80 or better).
 The emergency lighting installation shall comply fully with BS 5266.
 All lighting circuits to be protected via RCD devices.
 The complete electrical installation shall be installed, tested and inspected to BS 7671 17th edition (EET wiring regulations). All commissioning certificates to be handed over on completion of the contract together with as installed drawings and operation and maintenance manuals.
 Local means of isolation shall be afforded to the automatic lights controls for ease of light controls are installed. The isolating key switch shall be suitably labelled to identify its use.
 Locally unswitched wiring shall not enter or pass through luminaires.
 Where joints are made below ceiling level they shall be made within an adequately sized adaptable box.
 Connectors shall be fixed within the box with an insulation thickness of 25mm over/edge behind the connectors. All lighting connections shall be made in these boxes.

Client: **McAVOY HIRE**

Project: **DOUBLE CLASSROOM**

Project No.: **CD**

Drawing No.: **DWG-MCA-CD-E-01**

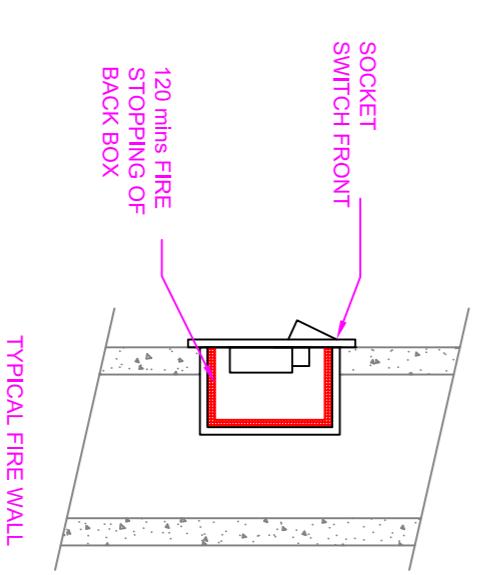
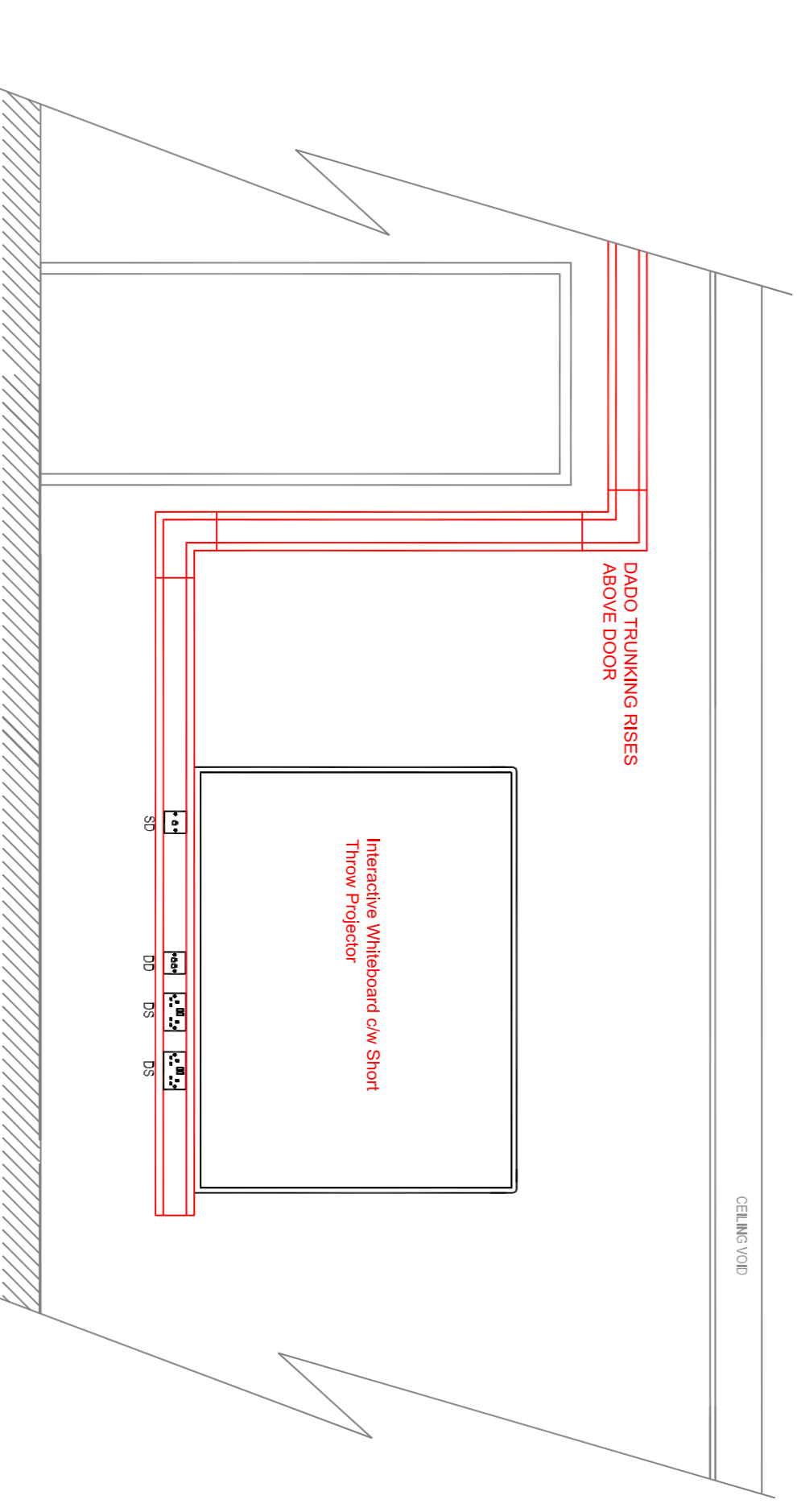
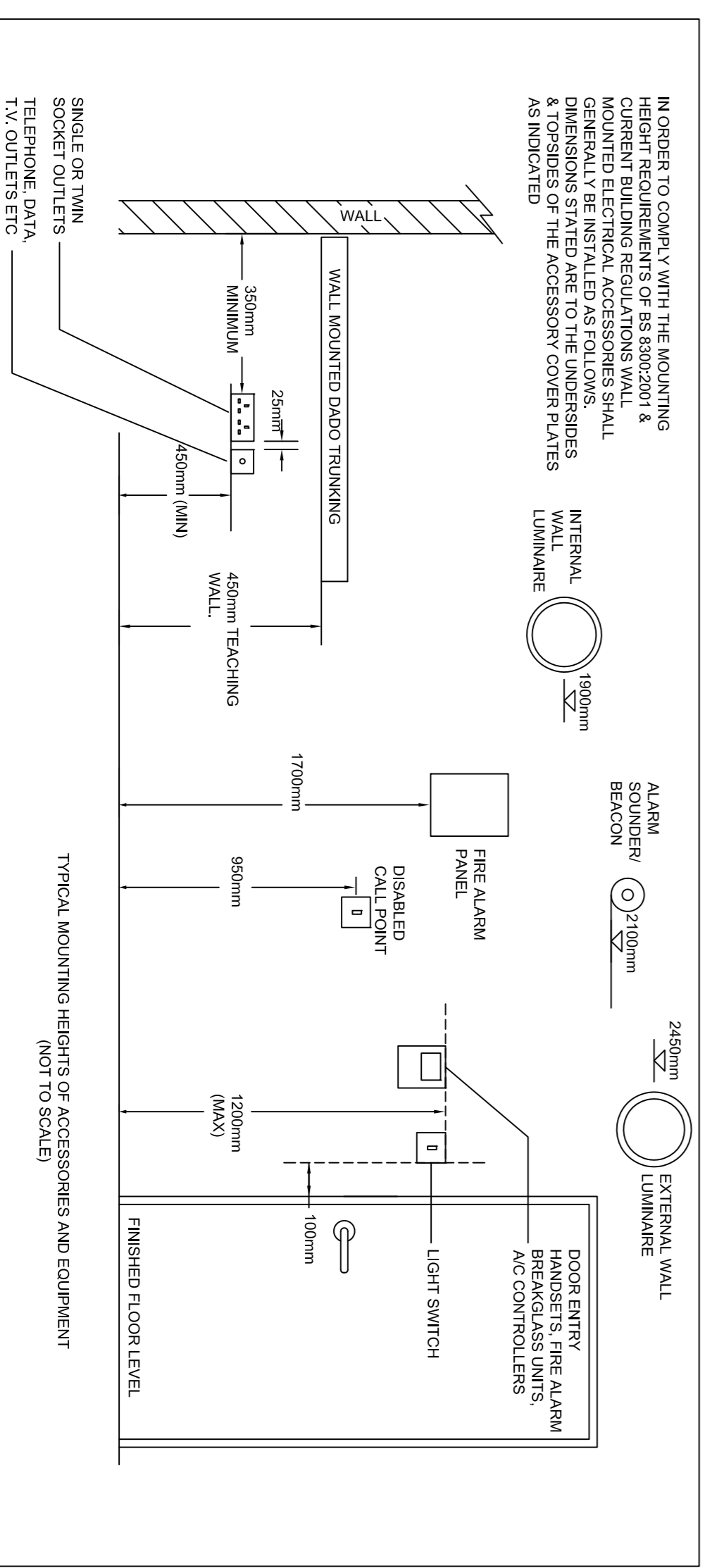
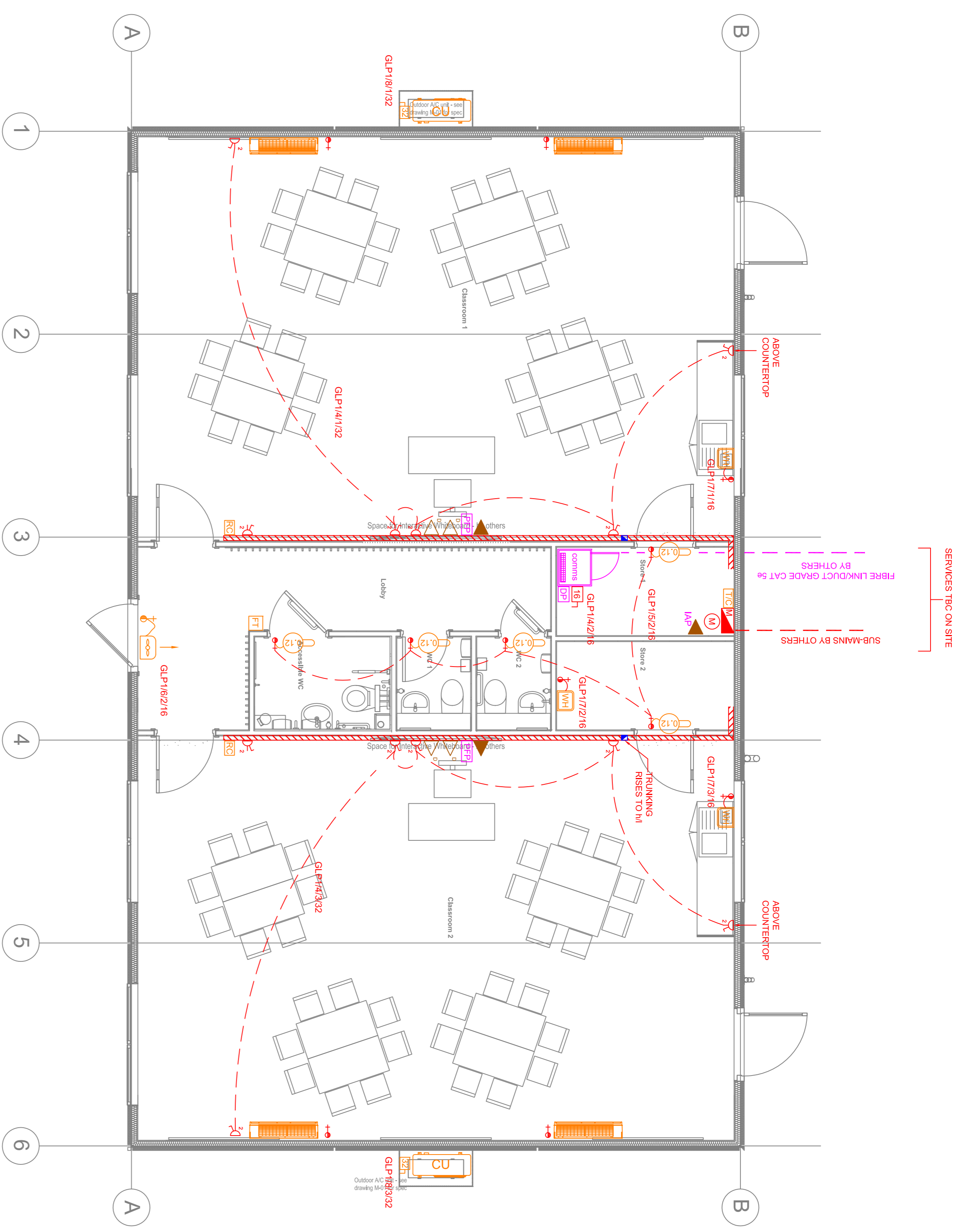
Status: **FOR APPROVAL**

Drawing Title: **GENERAL & EMERGENCY LIGHTING INSTALLATION**

Revision:	By	Check	Date
0			

Drawn By: **CWB** Checked By: **GT** DATE: **DEC'16** SCALE: **@ A1**

REF.	DESCRIPTION
POWER	<p>MULTI-COMPARTMENT PVC TRUNKING</p> <p>SINGLE SWITCHED SOCKET OUTLET</p> <p>TWIN SWITCHED SOCKET OUTLET</p> <p>GLP-1 - TRIN SPLIT LOAD GENERAL LIGHTING & POWER DISTRIBUTION BOARD (DEPENDANT METERING FOR POWER & LIGHTING INSTALLATIONS)</p> <p>20A DOUBLE POLE FUSED SWITCH (M/NEON)</p>
DATA/VOICE	<p>TELEPHONE OUTLET (P45 (CAT 5a))</p> <p>CAT 5a DATA POINT</p> <p>SUFFIX "2" DENOTES TWIN</p> <p>DENOTES WALL MOUNTED DATA CABINET (see Part Schedule) & 1x BINARY LABELLED AT EACH END TO CLEARLY IDENTIFY THEM. Comes installation to c/w manufacturer's 25 year warranty.</p> <p>INCOMING VOICE DISTRIBUTION POINT</p> <p>PROJECTOR FACEPLATE FOR IWB</p> <p>DENOTES WPI AT HL (lower by others) POLE TYPE</p>
MECHANICAL	<p>7.0kW 2 CHANNEL PROGRAMMABLE TIMECLOCK FOR CONTROL OF WATER HEATING & SPACE HEATING</p> <p>INDOOR FROST STAT</p> <p>WATER HEATER (exact location to be confirmed with Mech. Contractor)</p> <p>OVERDOOR HEATER AS DIMPLEX ACORN (1.5GJ.0kW)</p> <p>120W TUBULAR HEATER (Dimplex) AT HL, c/w INTEGRAL THERMOSTATIC CONTROL</p> <p>120W TUBULAR HEATER (Dimplex) AT HL, c/w INTEGRAL THERMOSTATIC CONTROL</p> <p>The heater is mounted above doorway and controlled via time clock & connected via a double pole switch with neon indicator and engineered as to its use.</p> <p>AIR CONDITIONING REMOTE CONTROLLER (EXACT TYPE TBD)</p> <p>WALL MOUNTED AIR CONDITIONING CASSETTE UNIT</p> <p>EXTERNAL AIR CONDITIONING CONDENSING UNIT</p>



NOTES

GENERAL NOTES:

All ring circuits to be wired in 2.5mm² PVC T&E 2.5mm² CPC cabling BS2474B Class 2 (Wm and Swm) installed on cable tray/duct and UPVC conduit for drops. Ring circuits greater than 50m in distance shall be wired in 4.0mm² 4.0mm² CPC. Circuit limit of 6 two gang power switched outlets.

All circuits to be protected via 32amp 30mA RCDB devices.

It shall be the responsibility of the electrical contractor to co-ordinate all electrical services with other disciplines.

The complete electrical installation shall be installed, tested and inspected to BS 7671 17th edition IEE wiring regulations. All commissioning certificates to be handed over on completion of the contract together with as installed drawings and operational and maintenance manuals.

FOR APPROVAL	CWB	GT	22/12/16	BY	CHK BY
REV: AMENDMENTS	DATE	BY	DATE	BY	CHK BY

Client: **McAVOY HIRE**

Project: **DOUBLE CLASSROOM**

Project No.: **CD**

Drawing No.: **DWG-MCA-CD -E-02**

Revision: **0**

STATUS: **FOR APPROVAL**

Drawing Title: **POWER & DATA INSTALLATION (ASHP OPTION)**

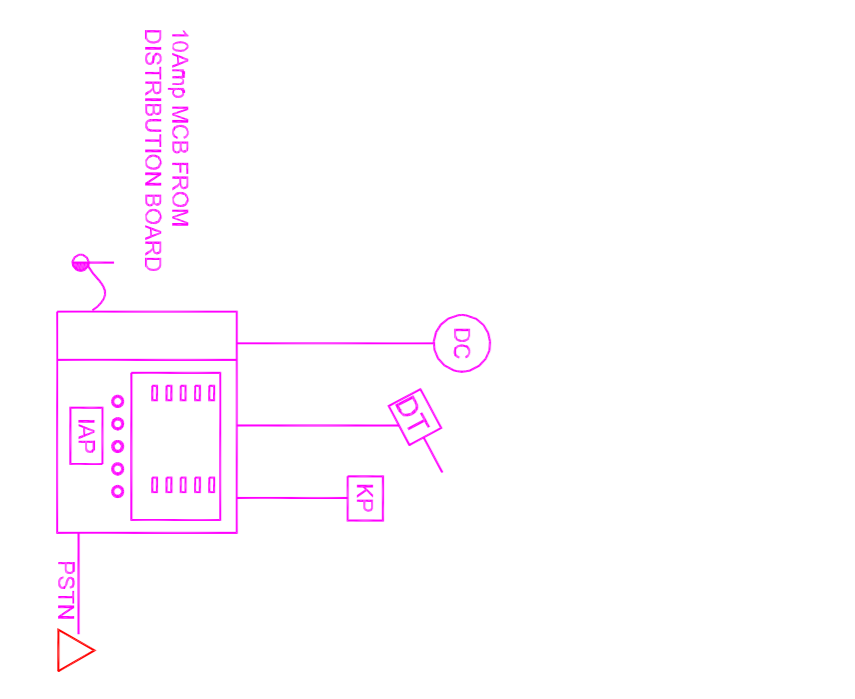
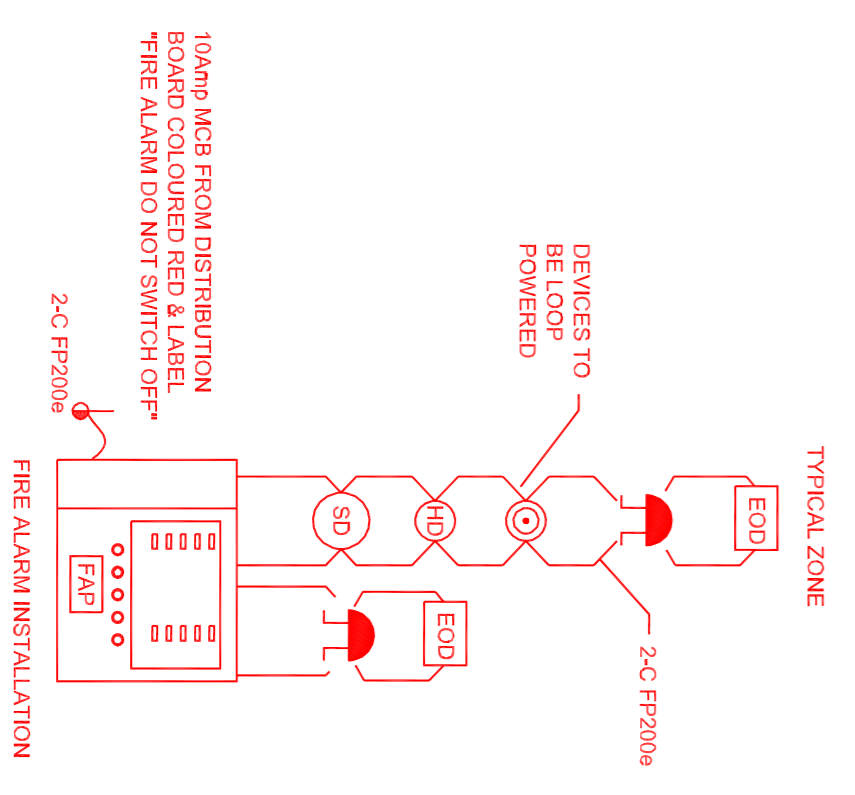
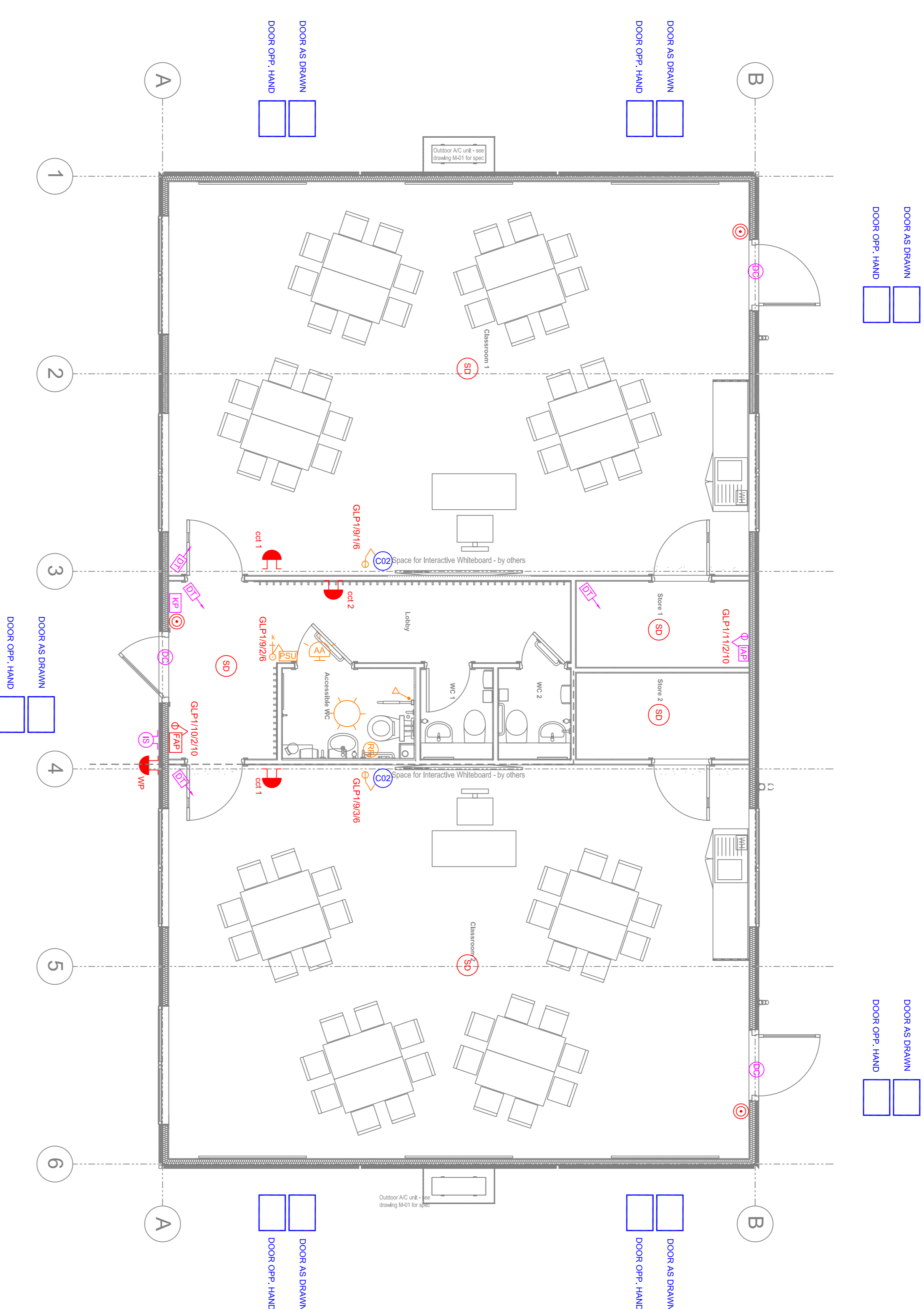
Drawn By	Checked By	DATE	SCALE @ A1
CWB	GT	DEC'16	1:50

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REF.	DESCRIPTION	TICK AS APPROPRIATE
	FIRE ALARM FIRE ALARM PANEL (4W KEY OPERATED DP MANS ISOLATOR (RED) (FIKE TWINFLEX PRO)) OPTICAL SMOKE DETECTOR HEAT DETECTOR DENOTES SOUNDER BASE DENOTES BEACON BASE FIRE ALARM JUNCTION BOX MANUAL CALL POINT FIRE ALARM BELL FIRE ALARM SOUNDER FIRE ALARM INTERFACE	STAND ALONE (Default Option) INTEGRATED TO SITE If you provide details of existing specialist contractor Name: Address: Tel: Email:
	INTRUDER ALARM INTRUDER ALARM PANEL (HONEYWELL GALAXY) DUAL TEC DETECTOR MAGNETIC REED DOOR CONTACT INTRUDER ALARM SOUNDER KEYPAD	TICK IF REQUIRED STAND ALONE INTEGRATED TO SITE If you provide details of existing specialist contractor Name: Address: Tel: Email:
	DISABLED CALL AUDIBLE/VISUAL ALARM POWER SUPPLY UNIT (W/ FUSED DP KEYSWITCH AT THE ALARM RESET	
	CO2 WALL MOUNTED CO2 SENSOR AS DUOMO CONSOLE MOUNTED UNDER THE ELECTRICAL CONTRACT (1.2x1.3m AFU)	



NOTE: SUBCONTRACTOR TO TAKE NOTE OF CONFIRMED DOOR POSITION & HANDING

- FIRE ALARM REQUIREMENT
- INTRUDER ALARM REQUIREMENT
- DOOR ACCESS REQUIREMENT

& ENSURE ELECTRICAL INSTALLATION IS COMPLETED TO SUIT THESE.

- * STAND ALONE FIRE ALARM AS STANDARD
- * INTRUDER ALARM OPTIONAL EXTRA
- * DOOR ACCESS OPTIONAL EXTRA

NOTES

Fire Alarm System: SPECIALIST SUB CONTRACTOR PROGRESS
 The Electrical Contractor to employ the services of a specialist contractor to install a fire alarm system to cover the new modular block.

Example:
 Call points shall be mounted flush to the wall in all areas.

Fire Alarm Cabinet:
 Fire Alarm Control Panel (FACP) Type fire alarm calling. Doors to break glass call points and wall/ceiling mounted sounders shall be protected by bullet resistant. The fire alarm cabinet shall not be installed on any power cabling cable trays.

The fire alarm system shall be in accordance with BS 5839, Part 1-1, 2, the Fire Authority requirements and the requirements of the system manufacturer. The system shall comprise automatic and manual operation, with smoke detectors, heat detectors, manual call points and sounders.

Full services system in appropriate intervals and emergency support contract included.

- Control panel with zonal display and backup batteries
- Control panel with integrated sounder
- Full services system in appropriate intervals and emergency support contract included
- Sounder Beacons
- Manual call points with identification signage
- Fire Signalling
- Fire Signalling

The Contractor shall employ the services of a specialist sub-contractor to install a new intruder alarm system including internal sounders, external sounders, and passive infrared detectors. The system shall be supplied, installed, and tested in accordance with the following:

- BS4771 (IEE Wiring Regulations)
- BS4771 Intruder Alarm Systems
- MOCSS Standards
- Intruder Alarm Control panel with Backup Batteries
- Keypad with Proximity Reader
- Proximity Tags/ Detectors - Microwave and PIR Activated
- Door Contact
- External Stroke Sounder

FOR APPROVAL	CWB	SC
DATE	BY	CHK BY
22/12/16		

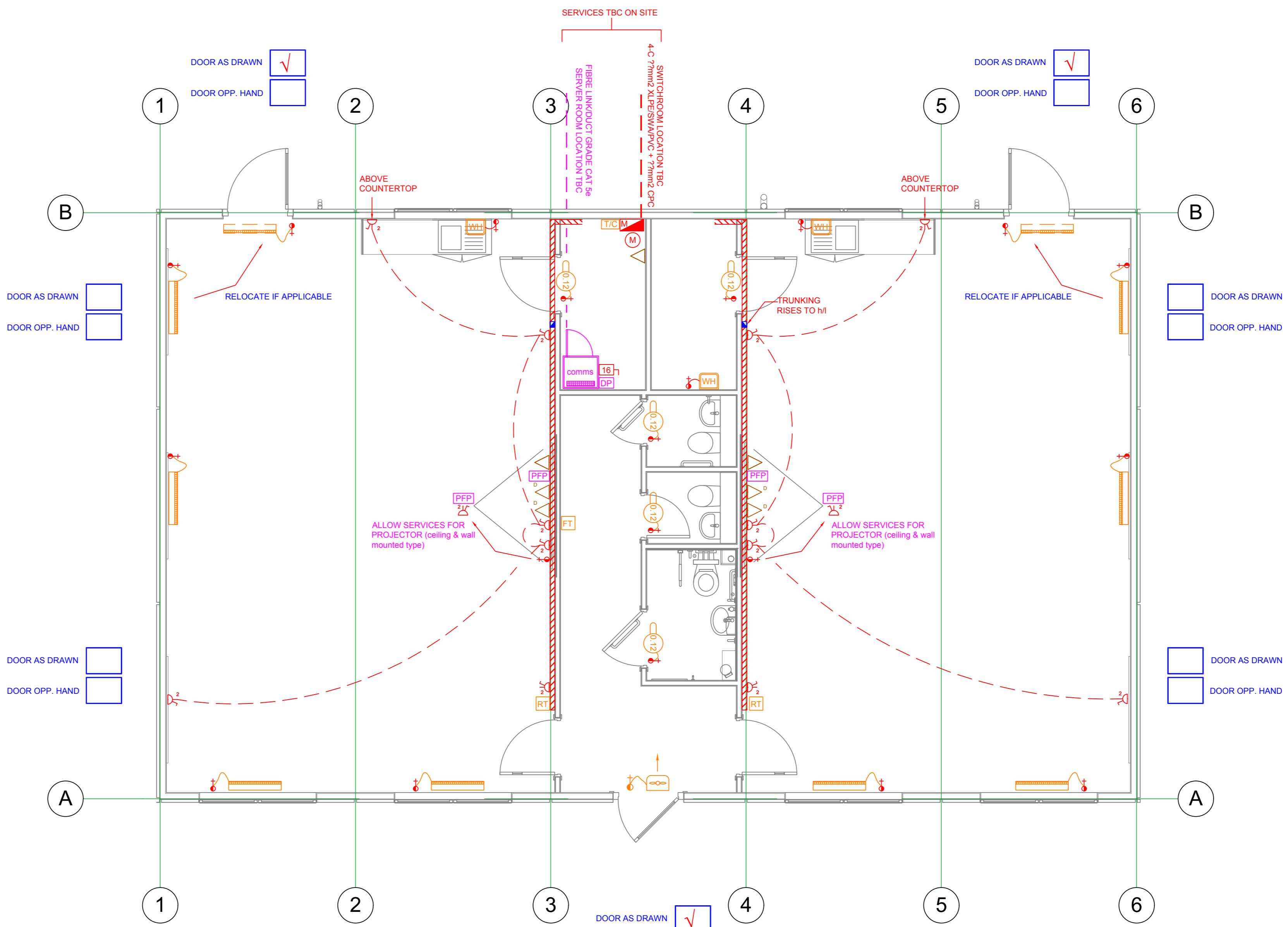
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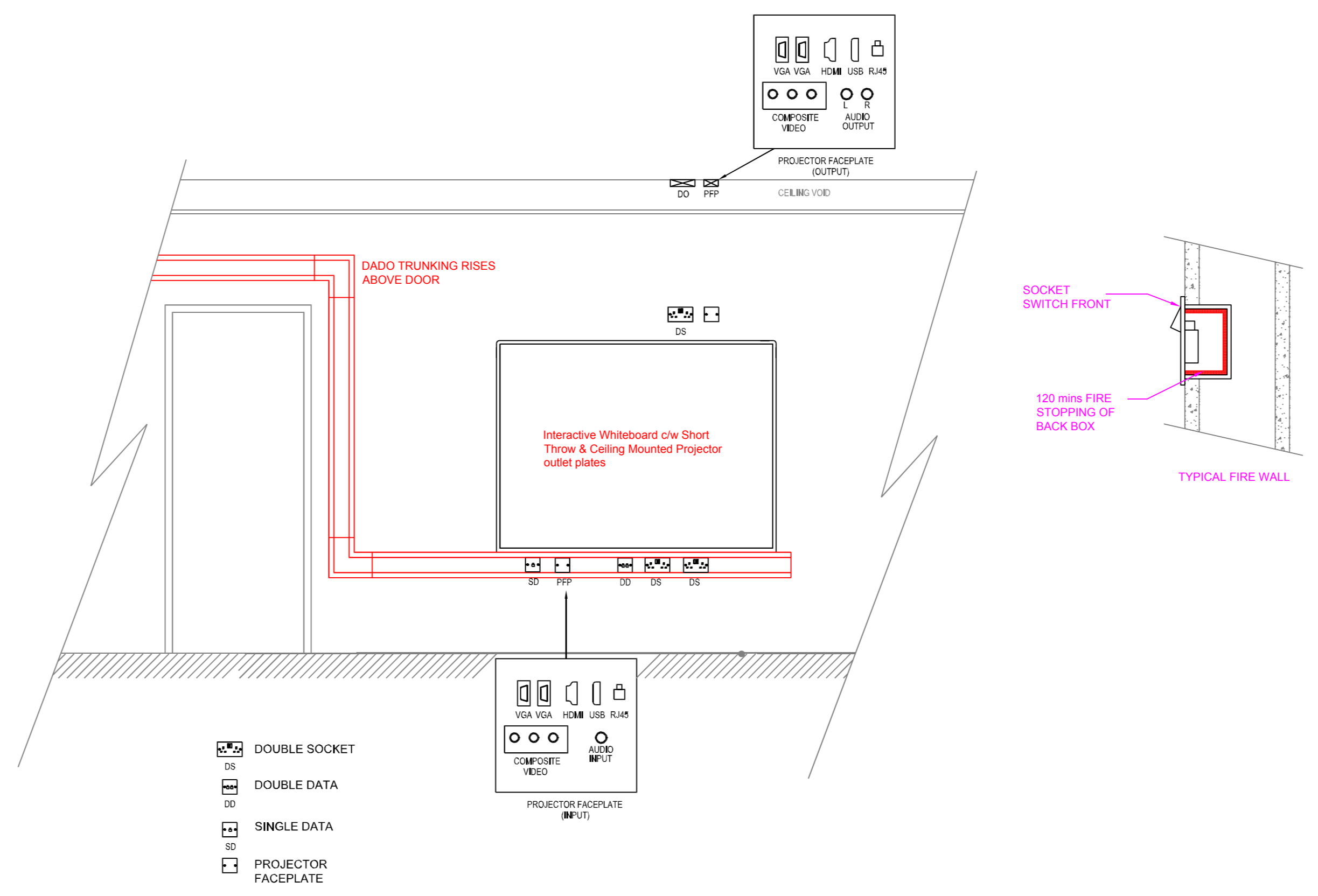
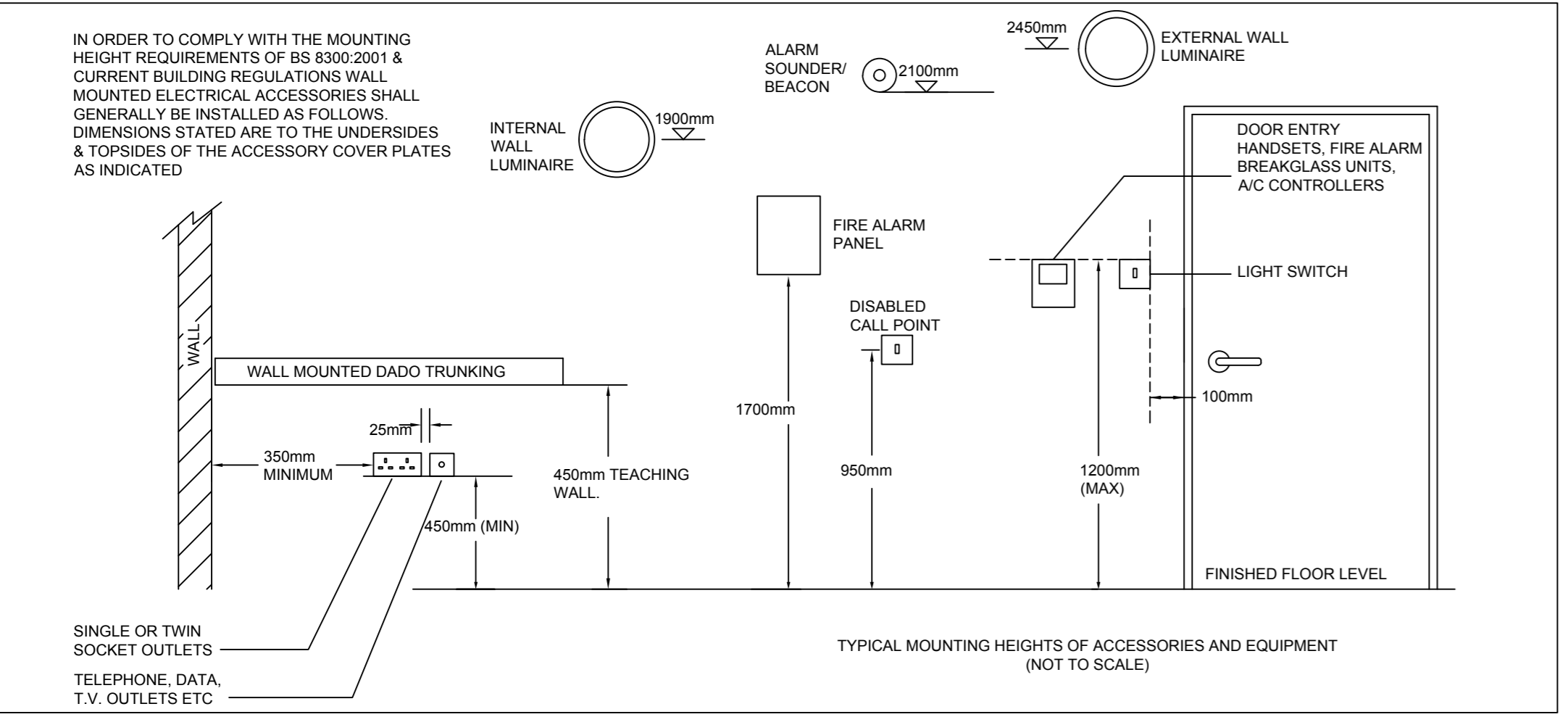
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 Email: info@cwbconsulting.com
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Client:	McAVOY HIRE						
Project:	DOUBLE CLASSROOM						
Project No.:	CD						
Drawing No.:	DWG-MCA-CD -E-03						
STATUS:	FOR APPROVAL						
Drawing Title:	FIRE/INTRUDER/DOOR ACCESS/DIS ALARM INSTALLATION						
Drawn By:	GT	Checked By:	GT	DATE:	DEC'16	SCALE:	@ A1
CWB							1:50

REF.	DESCRIPTION
POWER	MULTI-COMPARTMENT PVC TRUNKING
	SINGLE SWITCHED SOCKET OUTLET TWIN SWITCHED SOCKET OUTLET
	GLP1- TP&N SPLIT LOAD GENERAL LIGHTING & POWER DISTRIBUTION BOARD (TW DENOTES SEPERATE METERING FOR POWER & LIGHTING INSTALLATIONS) 20A DOUBLE POLE FUSED SWITCH c/w NEON
DATA/VOICE	TELEPHONE OUTLET RJ45 (CAT 5e) CAT 5e DATA POINT SUFFIX "2" DENOTES TWIN
	DENOTES WALL MOUNTED DATA CABINET c/w Patch panel(s) & 1x 60Watt POWER MODULE. The data cables and outlet plates are to be tested and labeled at each end to clearly identify them. Comms installation c/w manufacturers 25 year warranty.
	INCOMING VOICE DISTRIBUTION POINT
	PROJECTOR FACEPLATE FOR IWB
	DENOTES WIFI AT HL (router by others) POE TYPE
MECHANICAL	7-DAY 2 CHANNEL PROGRAMMABLE TIMECLOCK FOR CONTROL OF WATER HEATING & SPACE HEATING INDOOR FROST STAT WATER HEATER (exact location to be confirmed with Mech. Contractor) ROOM THERMOSTAT (ELECTRIC HEATING) OVERDOOR HEATER AS DIMPLEX AC3RN (1.5/3.0kw) 120W TUBULAR HEATER (Dimplex) AT HL c/w INTEGRAL THERMOSTATIC CONTROL The heaters are to be mounted above doorway and controlled via time clock & connected via a double pole switch with neon indicator and engraved as to its use. 2000W WALL MOUNTED PANEL HEATER AS DIMPLEX PLX RANGE c/w INTEGRAL ADJUSTABLE THERMOSTAT



NOTE: SUBCONTRACTOR TO TAKE NOTE OF CONFIRMED DOOR POSITION & HANDING & ENSURE ELECTRICAL INSTALLATION IS COMPLETED TO SUIT THESE.



NOTES

GENERAL NOTES:

All ring circuits to be wired in 2.5mm² pvc T&E+2.5mm² cpc utilising 6242HB CHLSF (twin and earth) installed on cable basket/tray and UPVC conduit for drops.

Ring circuits greater than 50m in distance shall be wired in 4.0mm² +4.0mm² cpc. Circuit limit of 6 two gang power switched outlets.

All circuits to be protected via 32amp 30ma RCBO devices.

It shall be the responsibility of the electrical contractor to co-ordinate all electrical services with other disciplines.

The complete electrical installation shall be installed, tested and inspected to BS 7671 17th edition IEEE wiring regulations. All commissioning certificates to be handed over on completion of the contract together with as installed drawings and operation and maintenance manuals.

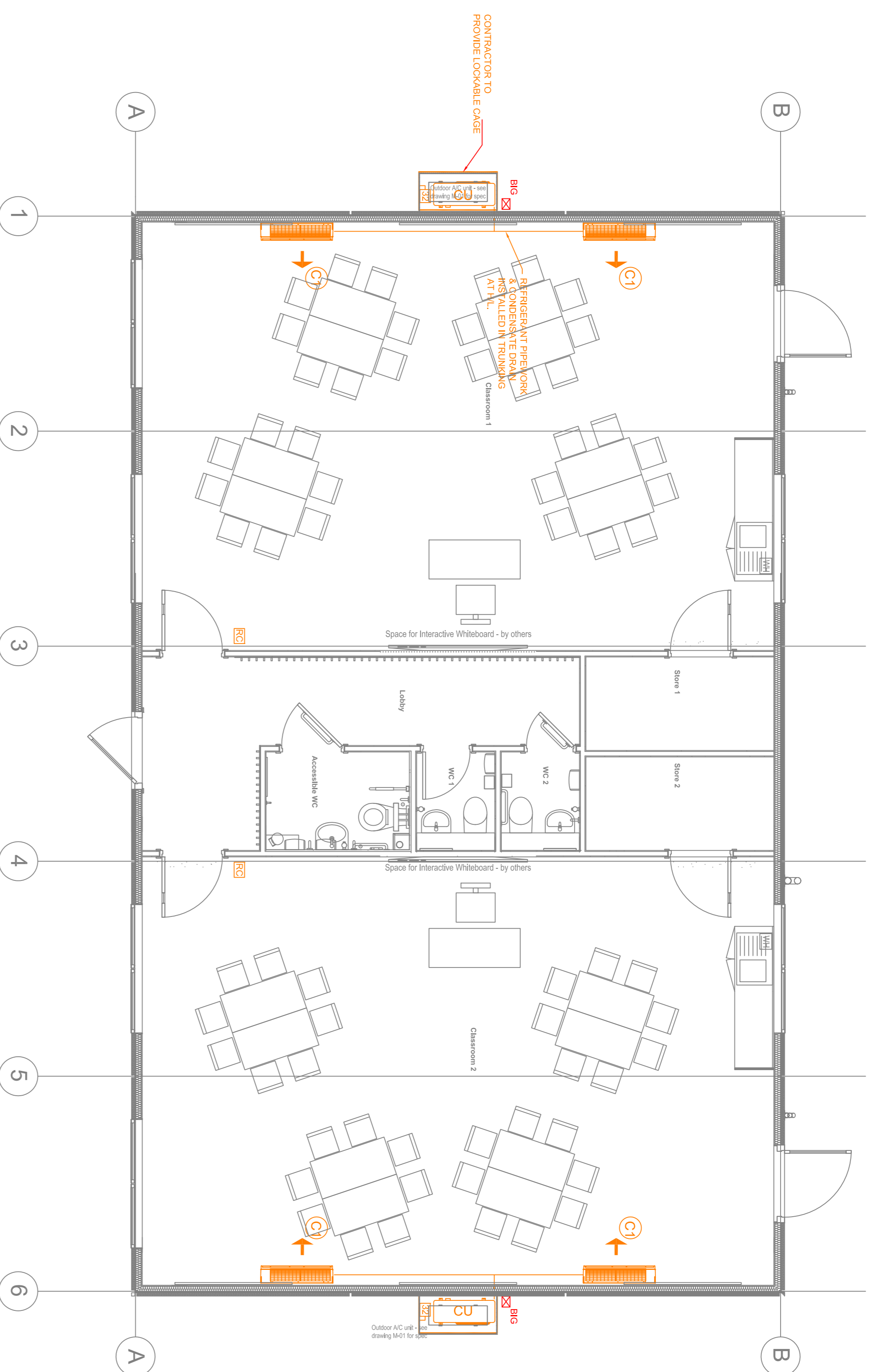
REV	AMENDMENTS	DATE	BY	CHK BY
1	STATUS CHANGED TO CONSTRUCTION	01/02/16	GT	DC
0	FOR APPROVAL	07/01/16	CWB	SC
0	FOR APPROVAL	27/12/15	CWB	SC

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Client:	McAVOY HIRE		
Project:	STANDARD HIRE 2016 DOUBLE CLASSROOM		
Project No.:	Hire Double		
Drawing No.:	DWG-MCA-Hire-Double-E-04	Revision:	1
STATUS	CONSTRUCTION		
Drawing Title:	POWER & DATA INSTALLATION (ELECTRIC HEATING OPTION)		
Drawn By:	Checked By:	DATE:	SCALE @ A1
CWB	SC	DEC'15	1:50

AIR CONDITIONING	
REG	REMOTE CONTROLLER TWIN SPLIT AIR CONDITIONING INSTALLATION AS TOSHIBA LOCAL AGENT EXHIBIT T04 (0289549323)
CU	INDOOR UNIT OUTDOOR UNIT COOLING CAPACITY HEATING CAPACITY EER/SEER/SEER OUTDOOR UNIT COOLING CAPACITY HEATING CAPACITY MAXIMUM RUNNING CURRENT
	SMBR09T-E SMH09AAT-E 13.3kW 10.45kW 2.66/4.94/5.17 6970 21.7A SPAN
BIG	BACK INLET GULLEY FOR CONDENSATE BY MAIN CONTRACTOR



NOTES

- AIR CONDITIONING NOTES:**
1. THE INSTALLATION OF ALL INTERNAL AND EXTERNAL UNITS, REFRIGERANT PIPING, INTERCONNECTING WIRING, COMMISSIONING AND TESTING APPROVED REFRIGERANT SYSTEMS INSTALLERS.
 2. SUPPLY, INSTALL, TEST AND COMMISSION ALL INTERCONNECTING REFRIGERATION PIPING BETWEEN THE OUTDOOR AND INDOOR UNITS.
 3. ALL PIPING TO BE CARRIED OUT IN REPAIRATION ON DUCTWORK UNITS WITH THE APPROPRIATE JOINT PIPES FOR TWIN AND TRIPLE SYSTEMS.
 4. PIPING SHOULD BE CARRIED OUT IN ACCORDANCE TO BS5974 2000 SPECIFICATION. MIN TOOLS REQUIRED FOR ALL PIPING: TORQUE WRENCH, CUTTING TOOL, PIPE WRENCH, PIPE CUTTER, PIPE WRENCH, PIPE SHOULD BE UTILISED TO MINIMISE JOINTS ON SITE. LENGTHS OF COPPER PIPE SHOULD BE UTILISED TO MINIMISE JOINTS ON SITE.
 5. ALL PIPING (GLUTTON AND LIQUID LINES) TO BE INSULATED WITH 50MM OF ELASTOMERIC PIPE INSULATION (AS MANUFACTURED BY 0 OF THE BUILDING REGULATIONS) (HAVING A WALL THICKNESS OF NOT LESS THAN 150MM).
 6. AFTER INSTALLATION OF PIPING, AND PRIOR TO SEALING OF INSULATION JOINTS AND STRIKING OF EQUIPMENT, PIPING SHOULD BE TESTED FOR LEAKS. TESTED AT 33 BAR AND HOLD FOR 24 HOURS AND CHECKED FOR LEAKS. THEN VACUUM DEWHEATED TO (-7/29MM Hg) 2 TORR, AND HELD AT SETTING FOR 12 HOURS (MINIMUM). USE DOCUMENT G54 SHOULD BE FOLLOWED DURING PRESSURE TESTING PERIOD. REFER TO INSTALLATION MANUAL, CHAPTERS 1.5, 5.2.
 7. ALL PIPING SHALL BE PROTECTED BY A MINIMUM OF 1.5 METRE CLEARANCES AND WHERE REQUIRED SHOULD BE RUN ON GALVANISED STEEL TRAYS.
 8. PIPING TO BE PROPERLY FIXED AND SUPPORTED AT A MINIMUM OF 1.5 METRE CLEARANCES AND WHERE REQUIRED SHOULD BE RUN ON GALVANISED STEEL TRAYS.
 9. CONDENSATE LINE SHALL BE INSTALLED TO EACH FAN COIL UNIT. THIS SPECIFICATION, MINIMUM SIZE OF CONDENSATE PIPES TO BE 29MM COPPER OR PLASTIC, INSULATED AND PIPED OR BY GRAVITY FROM EACH FAN COIL CASSETTE. DRAINS TO RUN 180 MM FALLS TO THE DRAINING SYSTEM SHALL HAVE AN EFFICIENCY RATING OF NOT LESS THAN THAT RECOMMENDED FOR ITS TYPE IN THE D.O.G.PUBLICATION 'NON-DOMESTIC HEATING, COOLING AND VENTILATION COMPLIANCE GUIDE'

REV:	AMENDMENTS	DATE	BY	CHK BY
0	FOR APPROVAL	22/12/16	CWB	GT

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Project No.:	CD
Drawing No.:	DWG-MCA-CD -M-01
Revision:	0
Status:	FOR APPROVAL

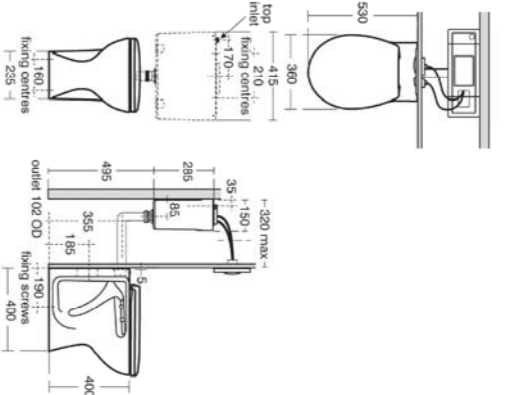
Drawing Title: AIR CONDITIONING INSTALLATION

Drawn By:	Checked By:	DATE:	SCALE @ A1
CWB	GT	DEC'16	1:50

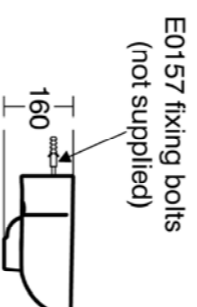
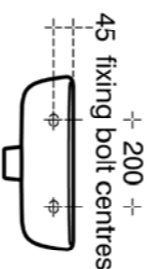
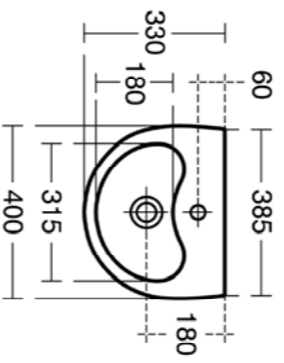
Project: DOUBLE CLASSROOM

Client: McAVOY HIRE

- Back to wall freestanding standard height WC pan with horizontal outlet
- Concrete 2 column 42.8 litre dual flush valve seat, 100 PPR0 traps and matching valves (Available in White (01), Blue (S8), Grey (LJ), Charcoal (RN))



- WALL MOUNTED WHB OW OVERFLOW & 1 TP
- Washbasin mixer 1 hole, self closing push button, variable temperature control with 15mm female connector rigid hoses on both
- Waste 1 1/2 brass siphon waste, 80mm sited tall
- W80 80mm sq. Overflow at 750 AF 1/2



- Heater Pipe: 1/2" extra standard copper pipe, 1/2" extra water saving delay fill cabinet with special bronze ball, grab rail, impact support rail with steel wall bracket, seat for screw with stainless (1/8) washbasin, 1 tap hole, no overflow or drain hole, washbasin mixer thermostatic 1 hole, single sequential long lever, copper table
- Waste 1 1/2" brass siphon waste, 80mm sited tall
- Trap 1 1/2" plastic body, 75mm seal, multipurpose outlet
- Grab rail straight 80mm long x 38mm diameter (Available in Blue (S8), White (A0), Grey (LJ), Stainless Steel finish (NT), Charcoal (RN))

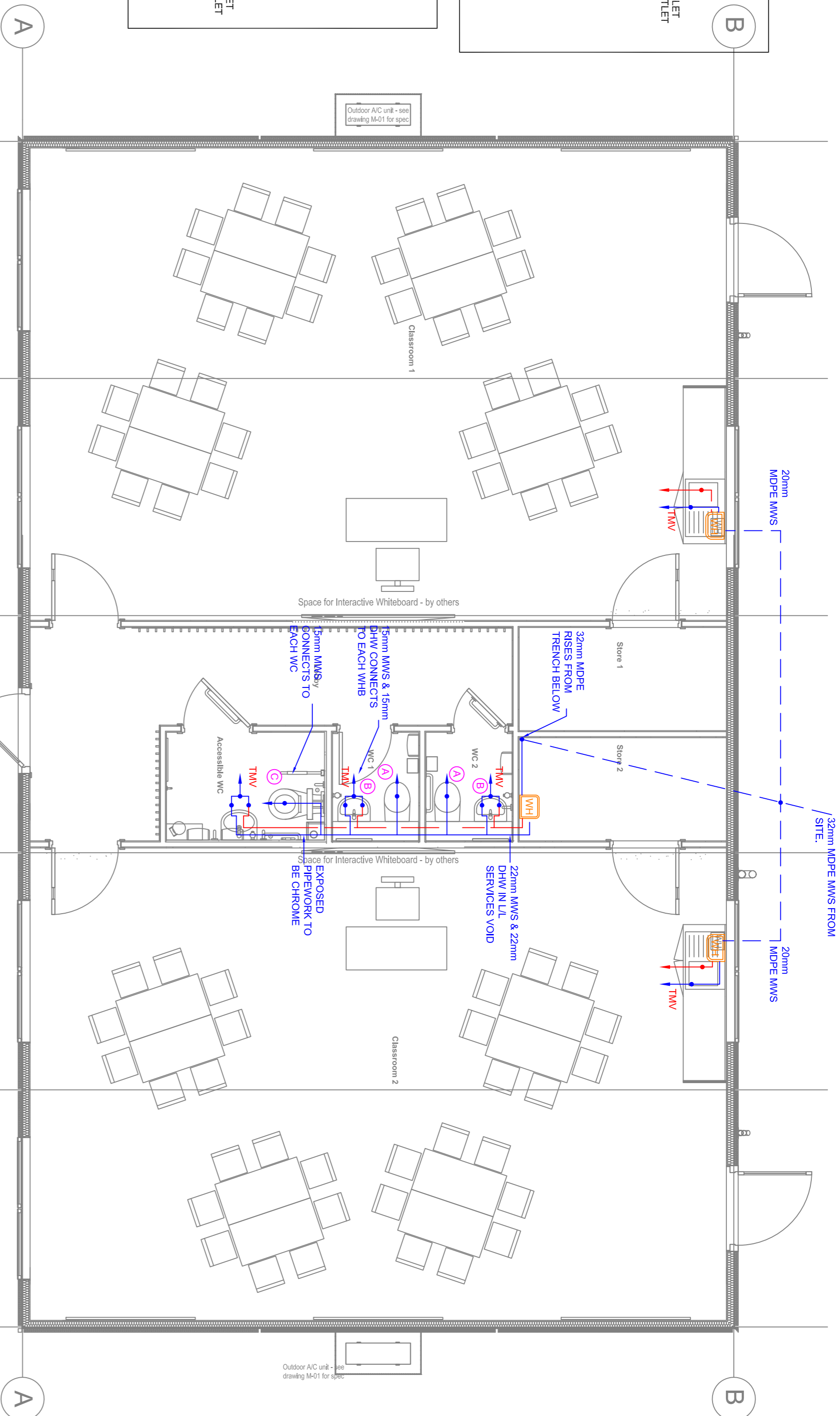
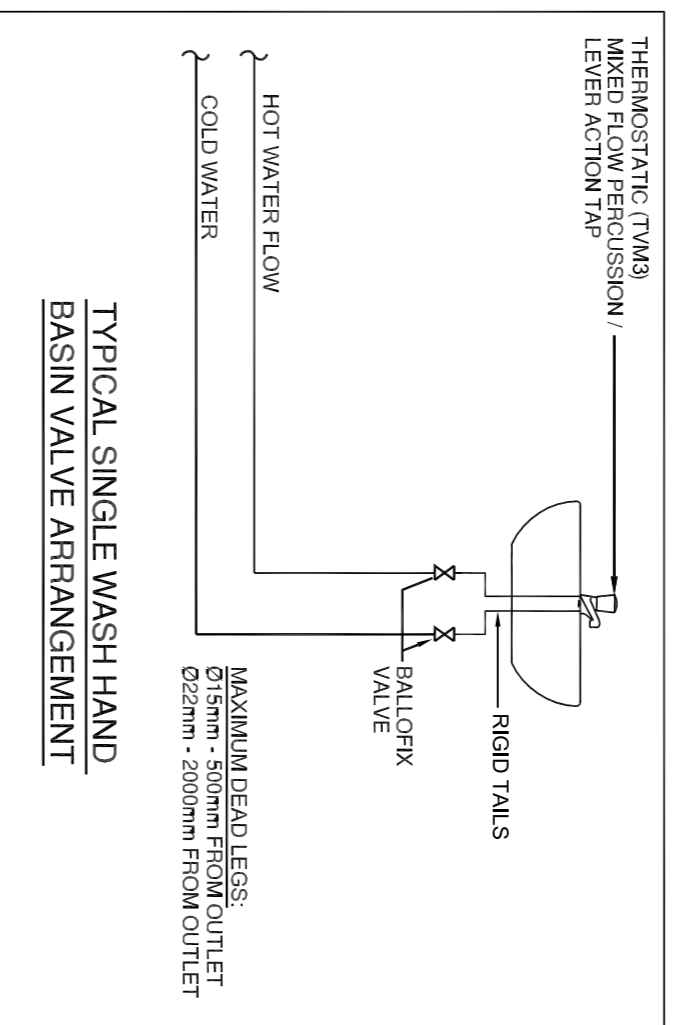
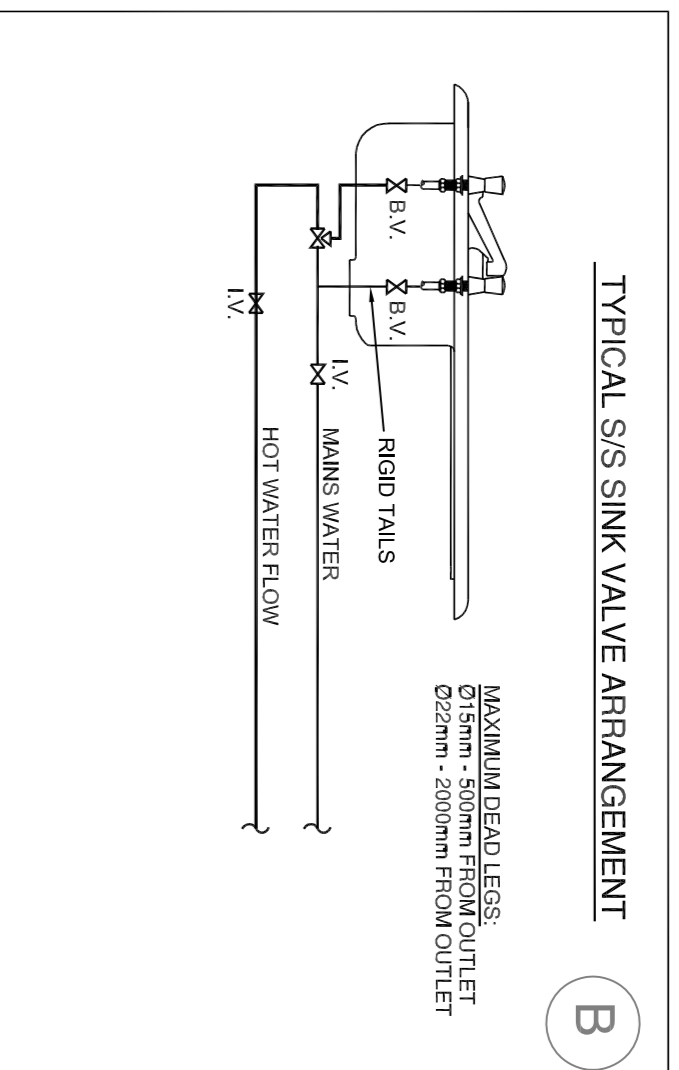
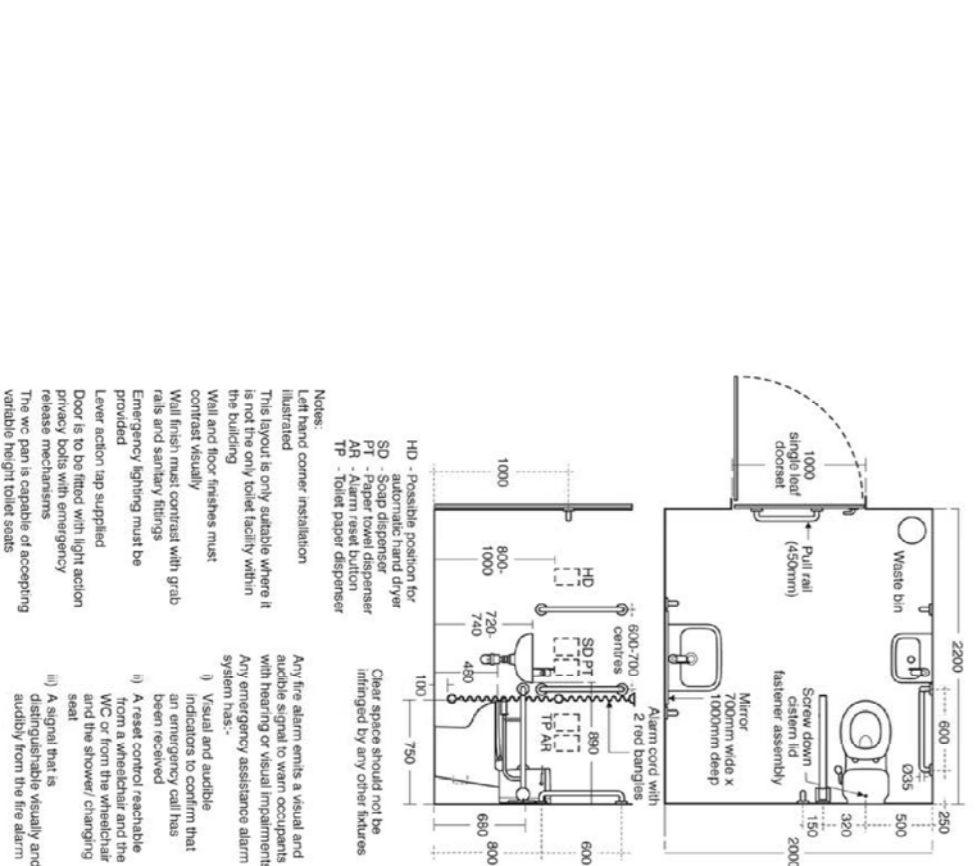
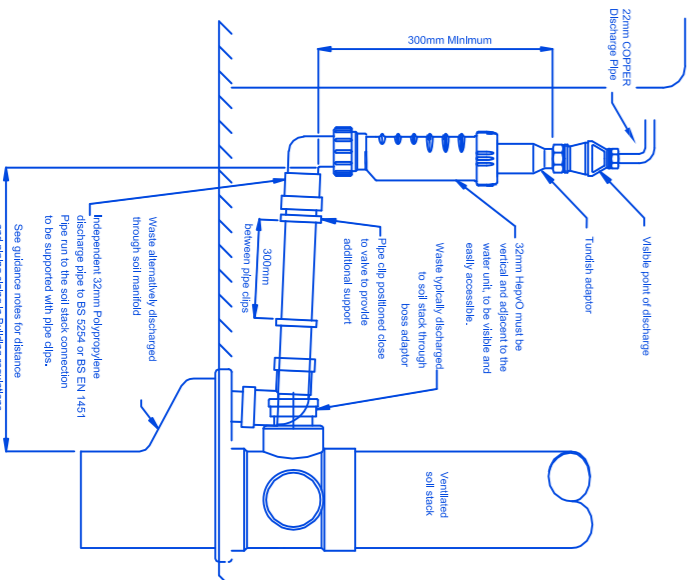
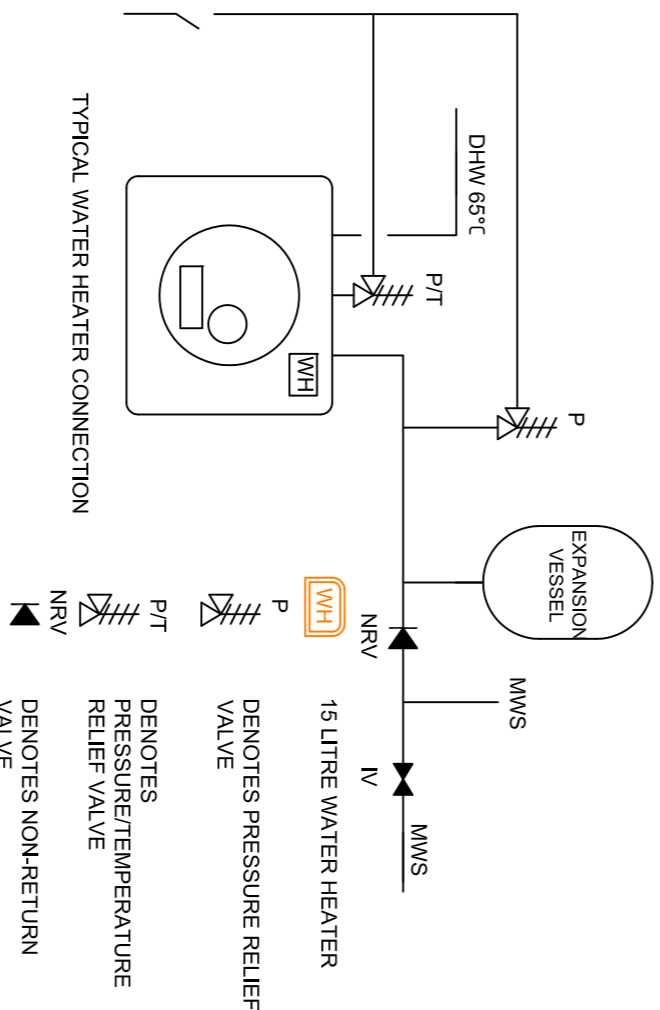
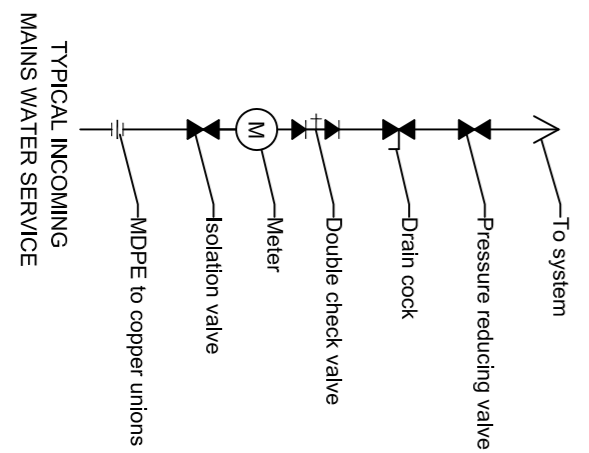


Figure 1. Self-sealing valve when used with a combined temperature and pressure relief valve for inverted hot water storage system



In Figure 1, the Hapco® valve is used in conjunction with a combined temperature and pressure relief valve. The hot water is discharged through the Hapco® valve. In this application, the discharge pipe should only be of either polypropylene to BS EN 1451 Part 1 or copper.



NOTES

DOMESTIC INSTALLATION NOTES

- ALL ITEMS OF SANITARY WARE ETC SHALL BE PROVIDED WITH A BALLCOCK TYPE ISOLATING VALVE ON EACH WATER CONNECTION.
- PLUMBING INSTALLATION SHALL COMPLY WITH THE WATER REGULATIONS.
- THE ROUTE OF PIPEWORK SHALL BE CO-ORDINATED IN CONJUNCTION WITH ALL OTHER MECHANICAL AND ELECTRICAL SERVICES AND THE BUILDING STRUCTURE.
- PLUMBING PIPEWORK SHALL BE CARRIED OUT USING THE FOLLOWING SPECIFICATIONS:
 - X. ALL EXPOSED PIPEWORK SHALL BE CHROME PLATED WITH THE SPECIFICATION.
- AFTER THE INSTALLATION IS COMPLETED THE ENTIRE PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE SPECIFICATION
- DENOTES WASH HAND BASINS WITH A TACTORY THERMOSTATIC MIXING VALVE WITH A TACTORY SET BLENDING WATER TEMPERATURE OF 41.0C TMO3

VENTILATION

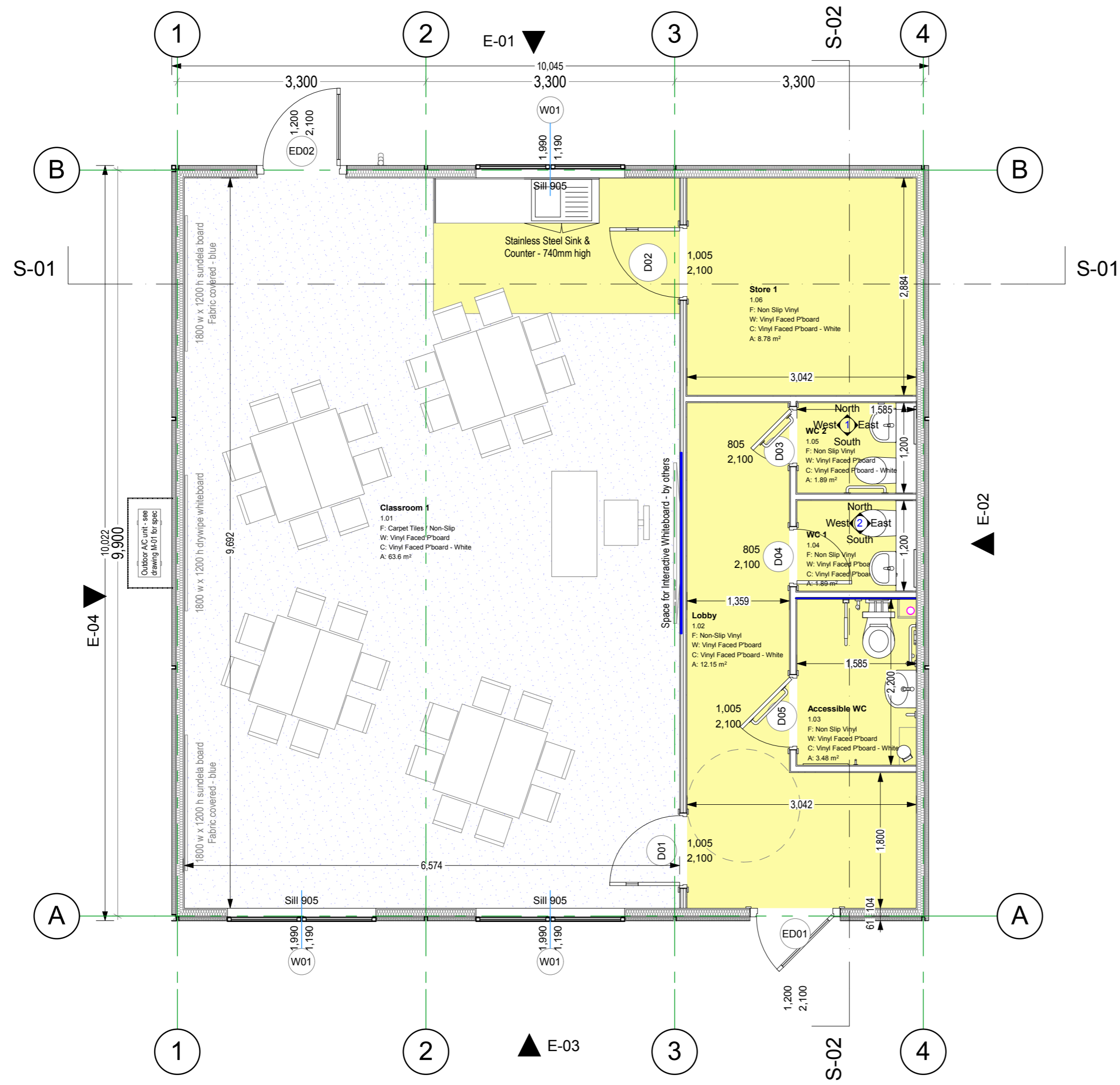
S477 INLINE FAN TD-50/125 CW EXTERNAL PUMPER COATED LOUVER BACKDRAFT SHUTTER (SFP 0.3m/h) CONTACT FARNHAVEN TEL: 029392811648
 OCCUPANCY SENSOR - DW ADJUST TABLE ROLL ON TIMER

Client: McAVOY HIRE		Revision: 0	
Project: DOUBLE CLASSROOM		Drawing No.: DWG-MCA-CD-M-02	
Project No.: CD		STATUS: FOR APPROVAL	
Drawing Title: PLUMBING/SANITARYWARE & VENTILATION INSTALLATION		Drawing No.: DWG-MCA-CD-M-02	
Drawn By: CWB	Checked By: GT	DATE: DEC'16	SCALE @ A1: 1:50

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SCH_04 Room Finishes Schedule - Single						
Room Name	Classroom 1	Lobby	Accessible WC	WC 1	WC 2	Store 1
Room No.	1.01	1.02	1.03	1.04	1.05	1.06
Area (m2)	63.6	12.1	3.5	1.9	1.9	8.8
Height	2,400	2,400	2,400	2,400	2,400	2,400
Ceiling Spec/Colour	Vinyl Faced P'board - White	Vinyl Faced P'board - White	Vinyl Faced P'board - White	Vinyl Faced P'board - White	Vinyl Faced P'board - White	Vinyl Faced P'board - White
Floor Finish	Carpet Tiles / Non-Slip	Non-Slip Vinyl	Non Slip Vinyl	Non Slip Vinyl	Non Slip Vinyl	Non Slip Vinyl
Floor Spec/Colour	Heckmonwike Supacord - Anthracite / Polyflor Polysafe - Silver Birch	Polyflor Polysafe - Silver Birch	Polyflor Polysafe - Silver Birch	Polyflor Polysafe - Silver Birch	Polyflor Polysafe - Silver Birch	Polyflor Polysafe - Silver Birch
Skirting Type/Colour	PVC - Grey	PVC - Grey	Set in Coved - Grey	Set in Coved - Grey	Set in Coved - Grey	PVC - Grey
Wall Finish	Vinyl Faced P'board	Vinyl Faced P'board	Vinyl Faced P'board	Vinyl Faced P'board	Vinyl Faced P'board	Vinyl Faced P'board
Wall Spec/Colour	Moonstone	Moonstone	Moonstone	Moonstone	Moonstone	Moonstone

Rev	Comment	Mod by	Chkd by	Date
Project name: Hire Single Classroom		Client: Standard Hire Fleet		
Site name: INSERT SITE NAME		Layout name: General Arrangement		
Building name: Single Classroom		Drawn by: gt Checked by: stc Approved by: dc Date: 05/2016		
Project no.: Originator: Volume: Level: Type: Role: Number:				
H_SINGLE - MCA - ZZ - GF - DR - A - 0001				
Status: Suitability description:				Scale(s) @ A2:
D4 FIT FOR MANUFACTURE/PROCUREMENT				1:50
C01 CONSTRUCTION				

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Hire Classroom ASHP
 Date 03/07/2015
 Rev. 1
 Engineer CWB
 Estimated Max Demand

General Lighting Installation

	4 w/m2/100lux			
Floor plan	Floor Area #1	<input type="text" value="170"/>	m2	<u>2040 Watts</u>
	Lux Level #1	<input type="text" value="300"/>		
General	Floor Area #2	<input type="text" value="0"/>	m2	<u>0 Watts</u>
	Lux Level #2	<input type="text" value="250"/>		
Amenity Lighting				
Quantity of fittings	4			
Power W	8	<input type="text" value="32"/>		<u>32 Watts</u>

Small Appliance Load

	180 w/twin outlet			
	quantity/m2	<input type="text" value="0"/>	0	
or	quantity	<input type="text" value="12"/>		<u>2160</u>
				2160
	Diversity Factor			
	first 3000 or less	100%		<u>3000 Watts</u>
	from 3001	35%		<u>-294 Watts</u>

Electric Heating Installaton

	<input type="text" value="2.4"/> Ceiling Height m			
	35 w/m3			
General	Electric Heating Area #1	<input type="text" value="35"/>	m2	<u>2940 Watts</u>
	Electric Heating Area #2	<input type="text" value="0"/>	m2	<u>0 Watts</u>

Air Conditioning Installation

	120 w/m2			
	3 COP			
Classrooms	Air-Con Area #1	<input type="text" value="135"/>	m2	<u>5400 Watts</u>
	Air Con Area #2	<input type="text" value="0"/>	m2	<u>0 Watts</u>

Electric Water Heating

	2000 watts/heater			
	9000 watts/shower			
	Quantity of Water heaters	<input type="text" value="3"/>	nr	<u>6000 Watts</u>
	Quantity of Showers	<input type="text" value="0"/>	nr	<u>0 Watts</u>

Additional Equipment

Desc	Q	Load	
Hand drier	<input type="text" value="3"/>	<input type="text" value="1200"/>	<u>3600 Watts</u>
Mechanical plant	<input type="text" value="0"/>	<input type="text" value="2000"/>	<u>0 Watts</u>

Contingency

Expansion	25.00%	<u>5680 Watts</u>
-----------	--------	-------------------

Total		28398 Watts
Diversity	0.85	24138 Watts
Amps		
SP&N	230 volts	105 Amps
TP&N	400 volts	35 Amps/Phase



Quality - this time - next time - every time



Standard floor loading is 3kN/m². Any loading imposed on a floor that is greater than 3kN/m² may require strengthening. Please contact your hire centre if you expect to exceed 3kN/m².

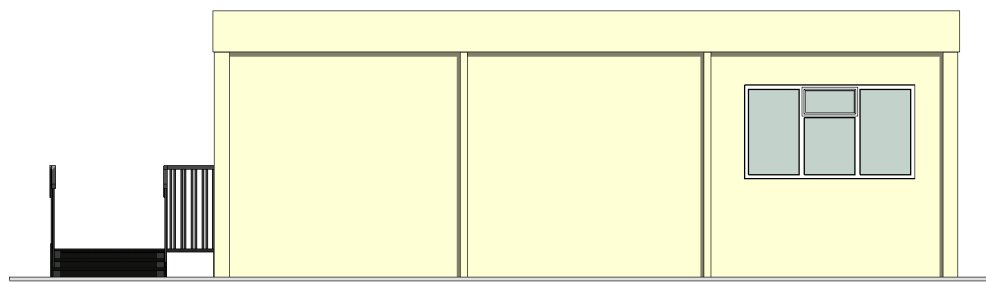
Please note that this and any accompanying drawing(s) are for illustrative purposes only and as such, the building shown may vary from the actual finished building on site.

The position of windows, external doors and electrical fixtures (if shown) are dependent on stock availability at time of order.



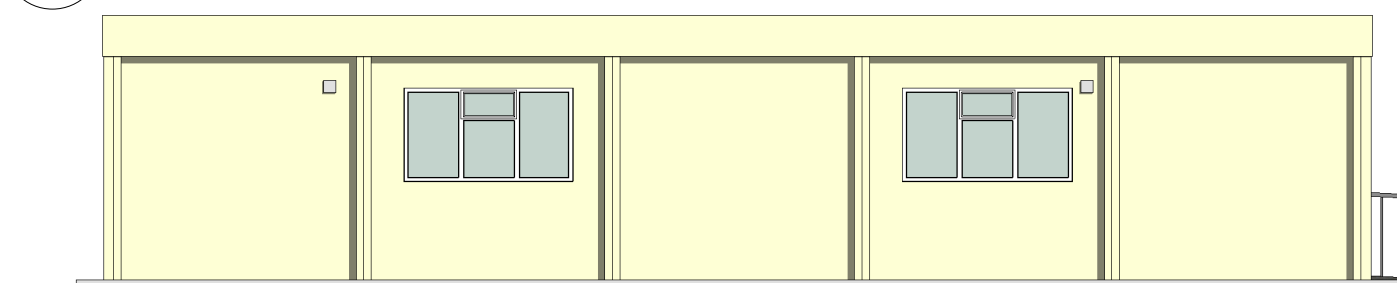
2 Front Elevation

1 : 100



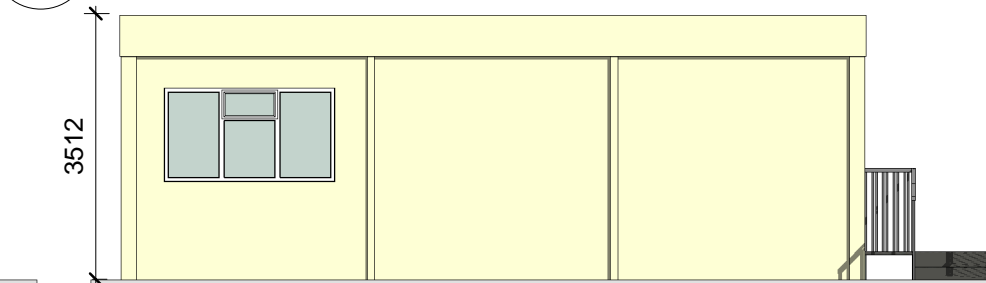
3 Right Elevation

1 : 100



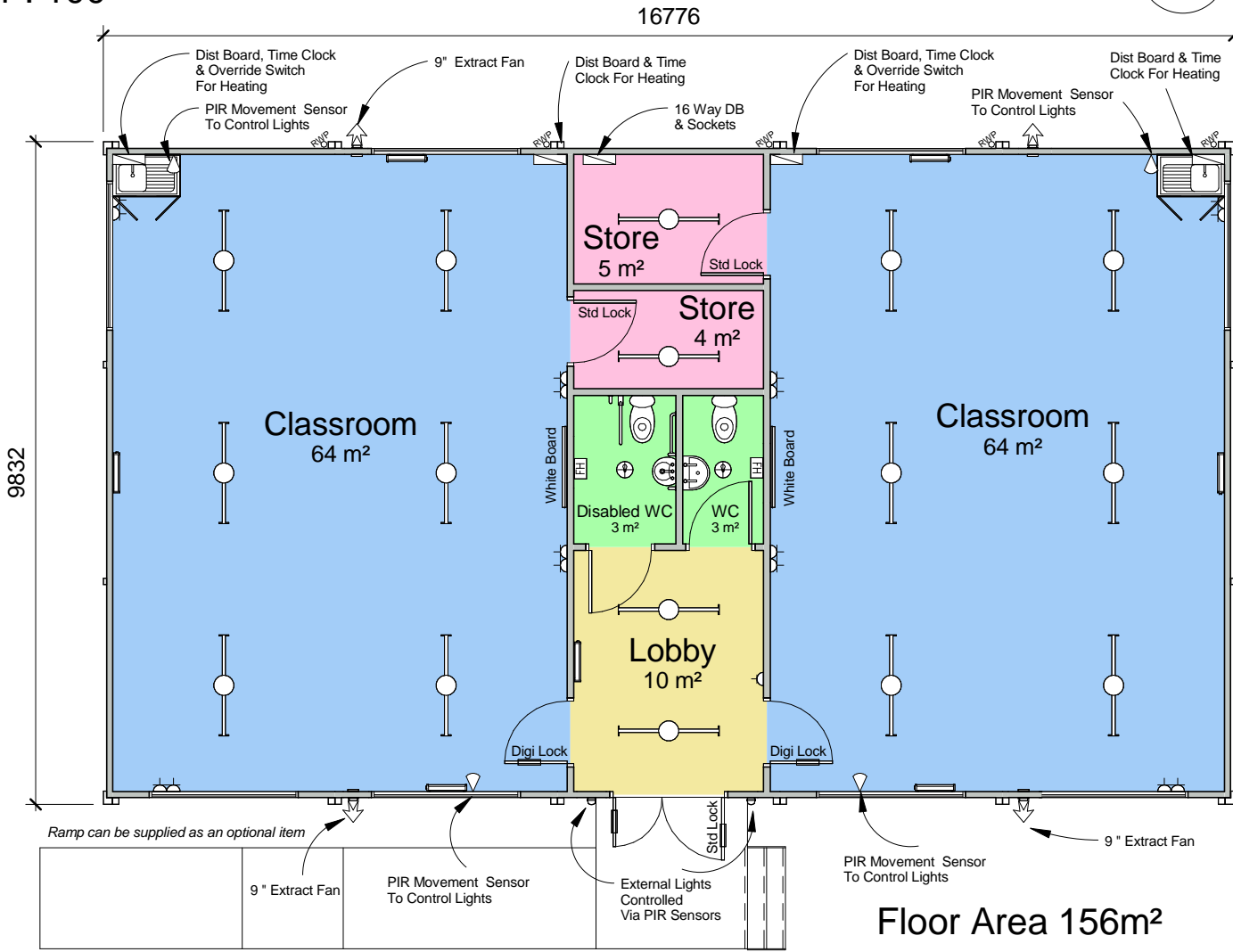
4 Rear Elevation

1 : 100



5 Left Elevation

1 : 100



Floor Area 156m²

N.B. ramp shown assumes building finished floor level is at maximum 450mm above ground level, and has 1:15 criteria in accordance with Part M of the building regulations (DDA)

1 Plan Layout

1 : 100

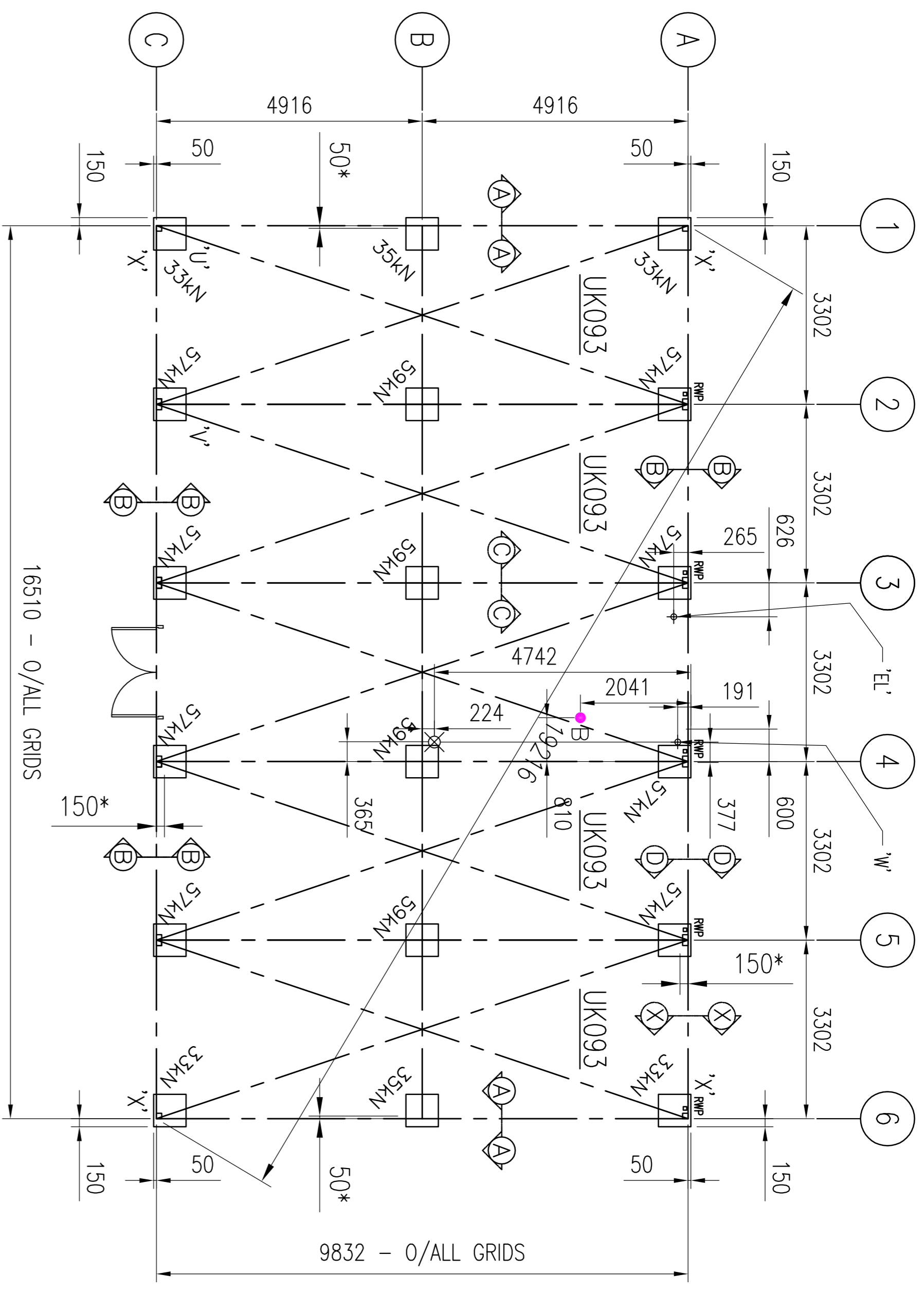
Notes

- Windows - white UPVC double glazed 2250 x 1250 - 2 Nr side opening and 1 Nr top opening. All to be fitted with locks and restrictors.
- Steel External double doors with standard lock, fitted with white UPVC vision panels and 2 Nr and finger guards.
- 2mm Flint grey polyfloor vinyl with polyurethen coating.
- Internal doors to be American White Oak with finger guards. Classroom doors 926mm for disabled access, 3 Nr vision panels and kickplates fitted.
- Each classroom to have whiteboards (2000mm x 1200mm).
- Classroom lighting to be operated by PIR detectors, with manual override available. Note 2 Nr external bulkhead lights also PIR controlled.
- 4 Nr double sockets to each classroom, 1 Nr single socket to lobby.
- 2 Nr 9" extractor fans in each classroom
- All partitioning supplied to be half hour fire resistant.
- Painted skirting board
- 2 kW wall mounted fan assisted heaters to each classroom, with time clock control.
- The lighting provided is designed to be Category 3 level. This ensures a good general level of lighting is available to the teaching areas.
- To ensure minimum running costs, lights in the teaching areas controlled by PIR's, will automatically be turned off 30 minutes after the last person has left the room - please note however that the PIR's can be over-ridden by the teacher and the lights turned off should there be a requirement; eg if the class is watching TV etc.
- The two extractor fans supplied in each classroom to provide mechanical extract ventilation if required are operated via a wall switch in the classroom.

External Colour Scheme

- | | |
|----------------|--------------------------------|
| Walls | - Honesty nearest BS ref 10C31 |
| All Columns | - Honesty nearest BS ref 10C31 |
| All Trims | - Honesty nearest BS ref 10C31 |
| External Skirt | - Honesty nearest BS ref 10C31 |
| Roof | - White nearest BS ref 00E55 |
| Windows | - White nearest BS ref 00E55 |
| Vision Panels | - White nearest BS ref 00E55 |
| Doors | - Honesty nearest BS ref 10C31 |

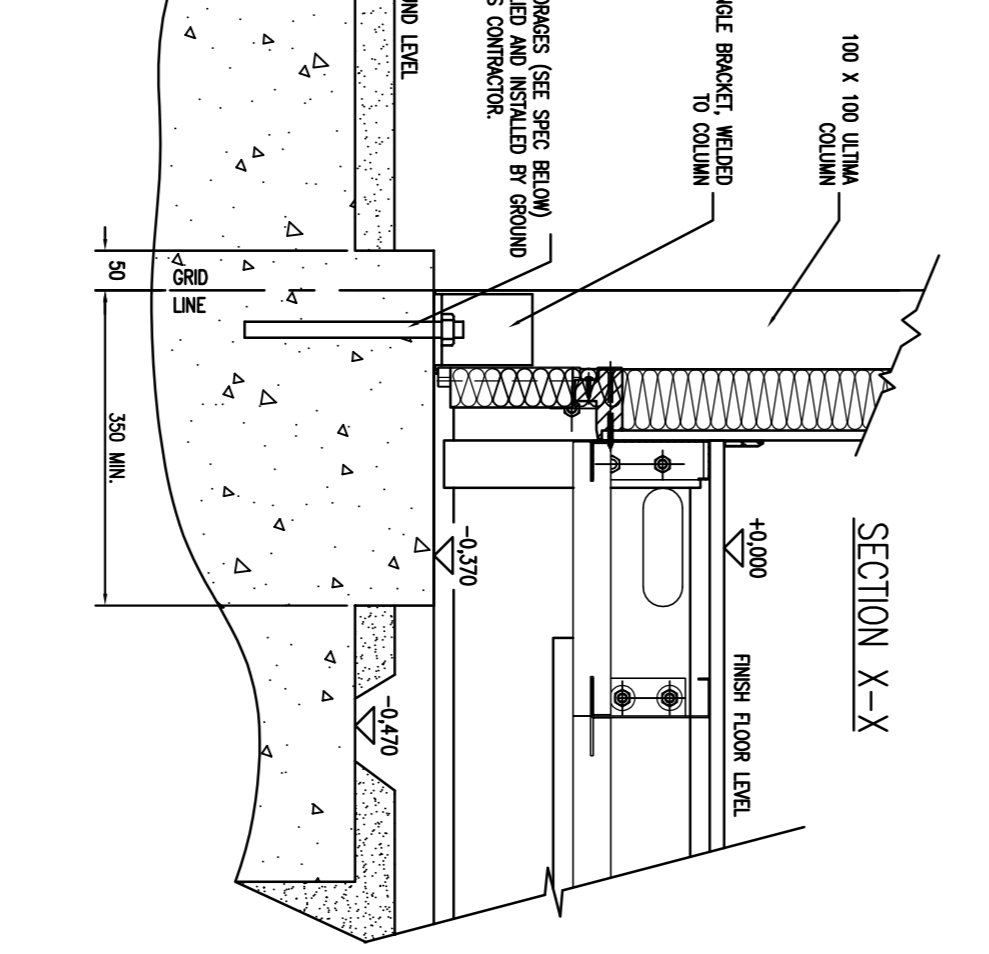
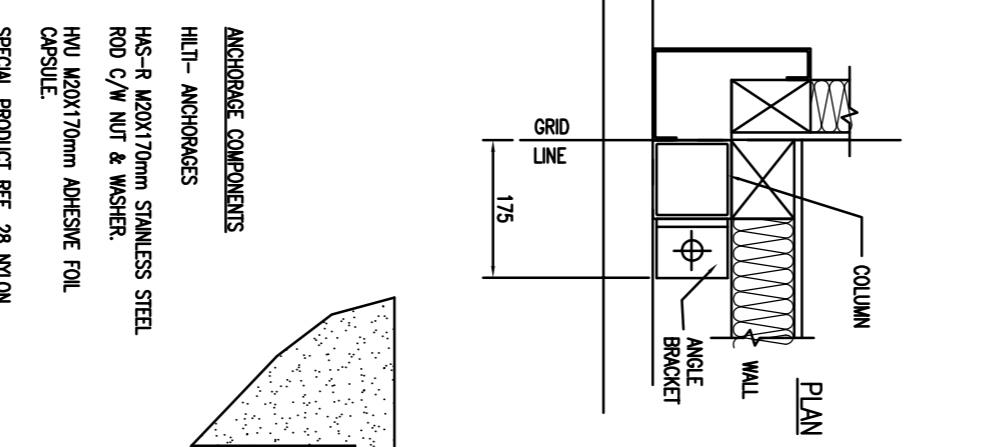
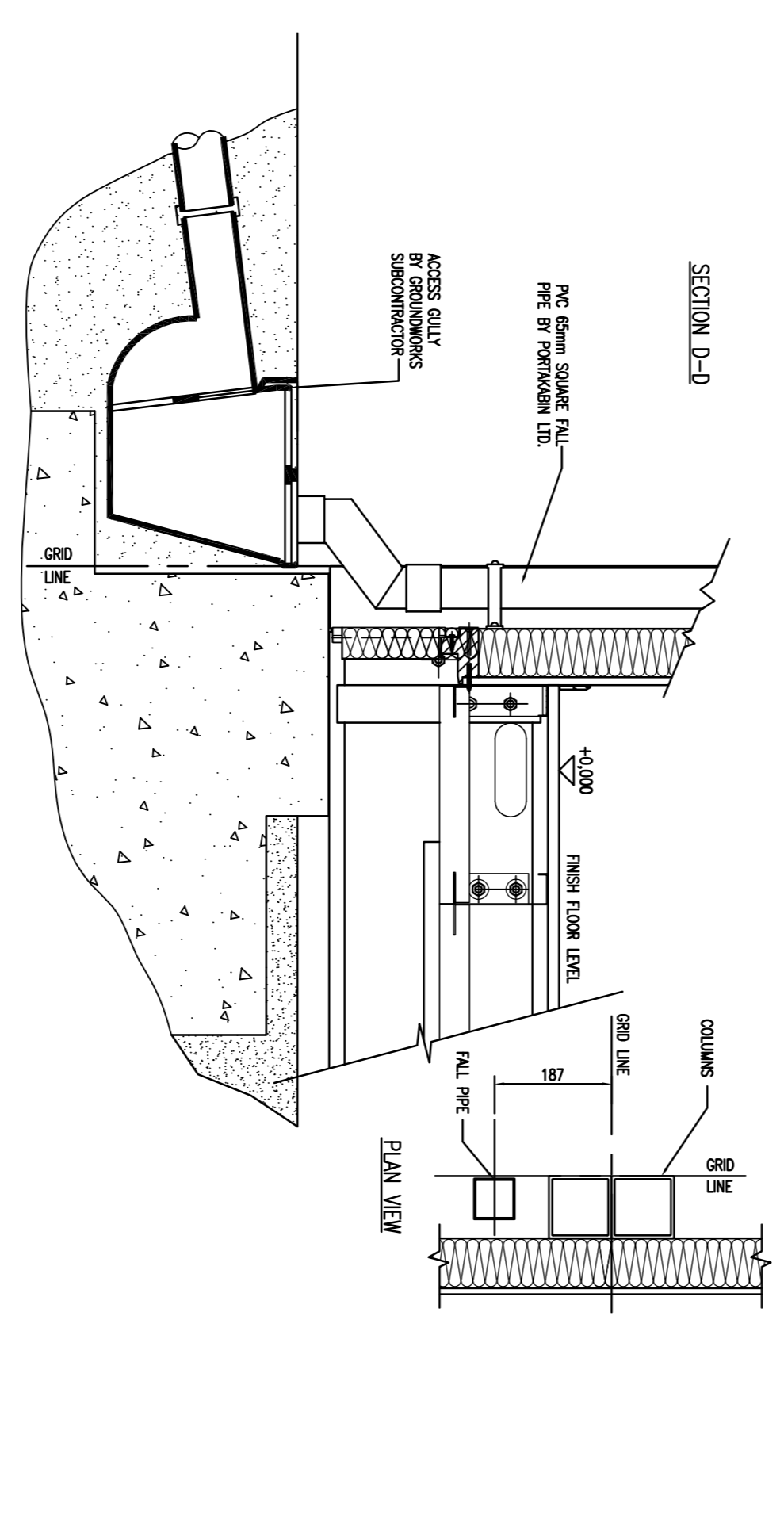
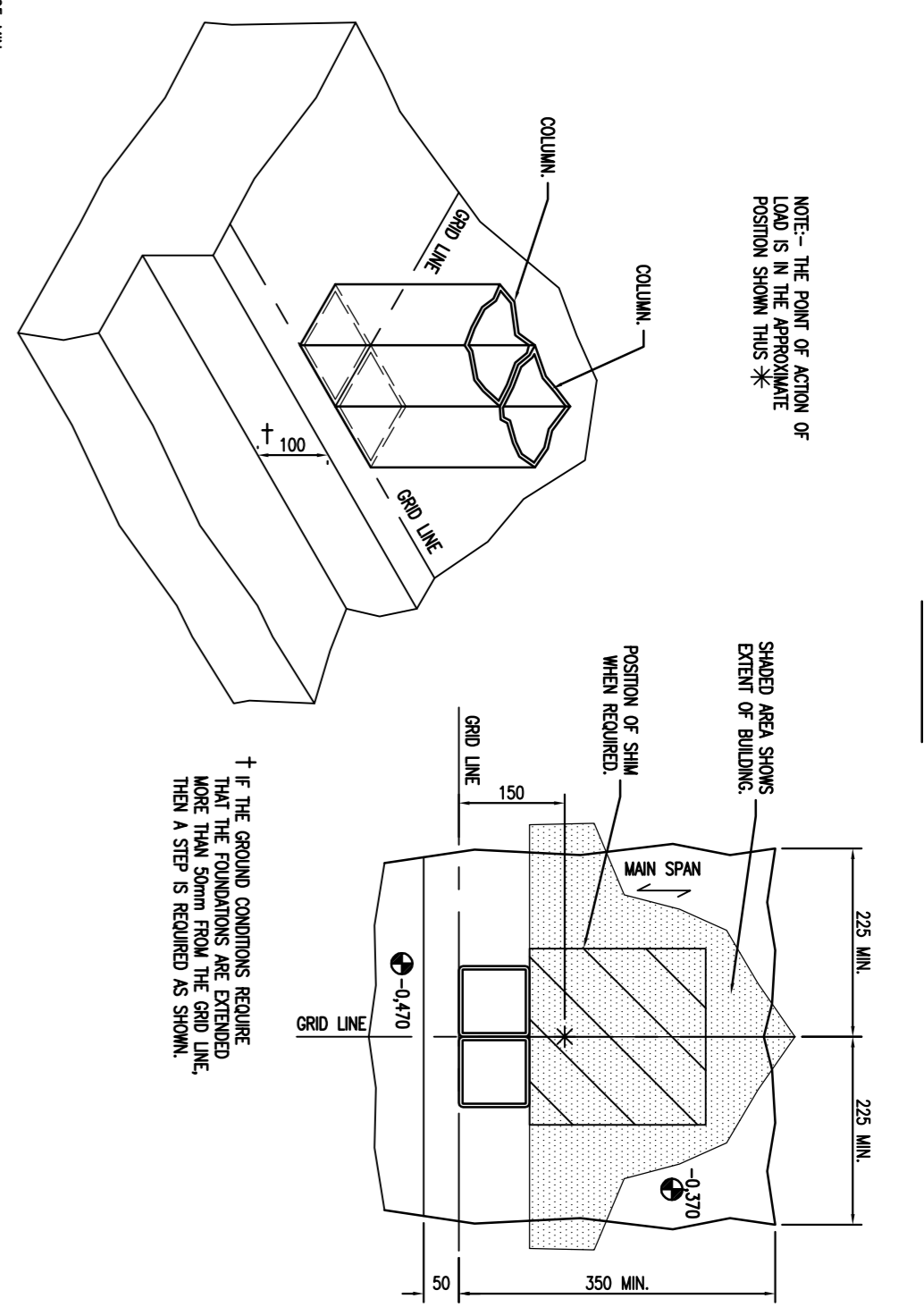
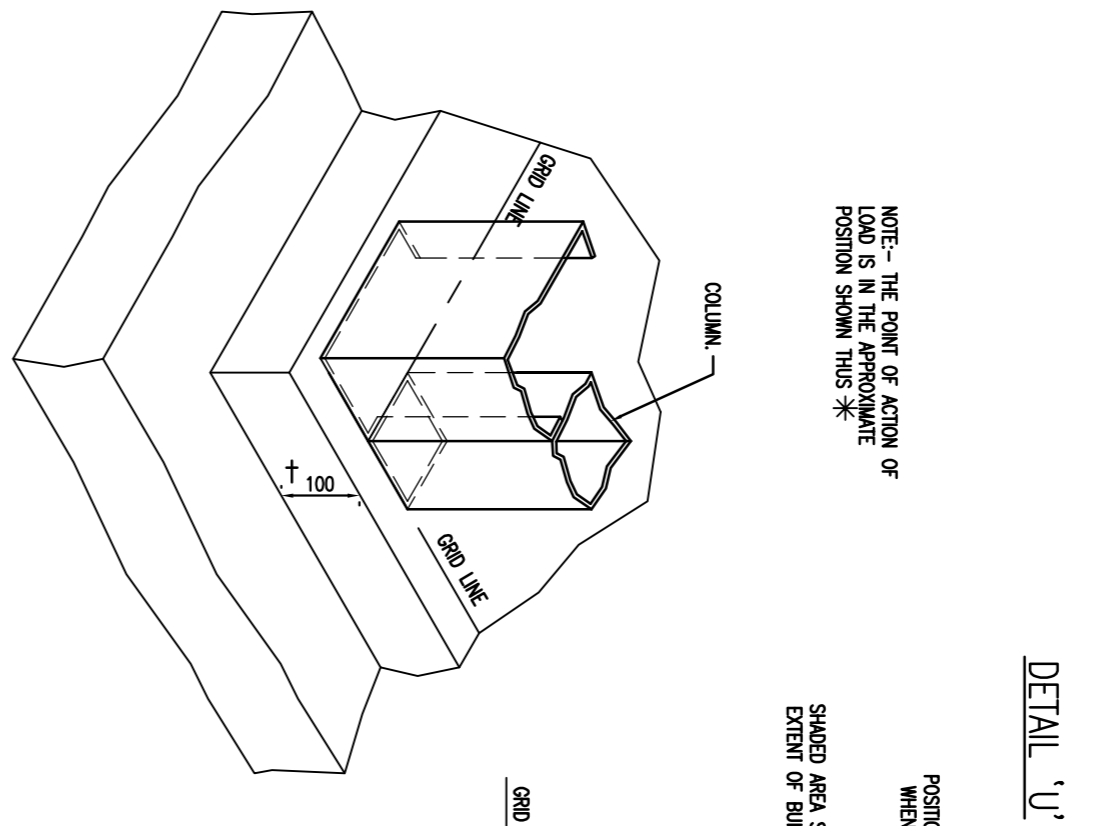
Rev	Revision Description	Date	By
Project Name Double Classroom Block			
Client Name -			
Sheet Name Plan and Elevations - Double Classroom Block with toilets and kitchen sinks - 5 x UK093 Ultima Modules			
Date 2013	Scale 1 : 100 @ A3		
Drawing Number HD/9254/02	Rev.	Drawn by CS	



THE 150* AND 50* DIMENSIONS INDICATE POINT OF ACTION OF LOAD OFFSETS FROM GRID LINES AROUND THE PERIMETER OF THE BUILDING.

ELECTRICAL LOADINGS
 DIVERSE LOAD = 29.76kW
 THREE PHASE DIVERSIFIED LOAD = 46.00 Amps/phase (37.20 kVA)

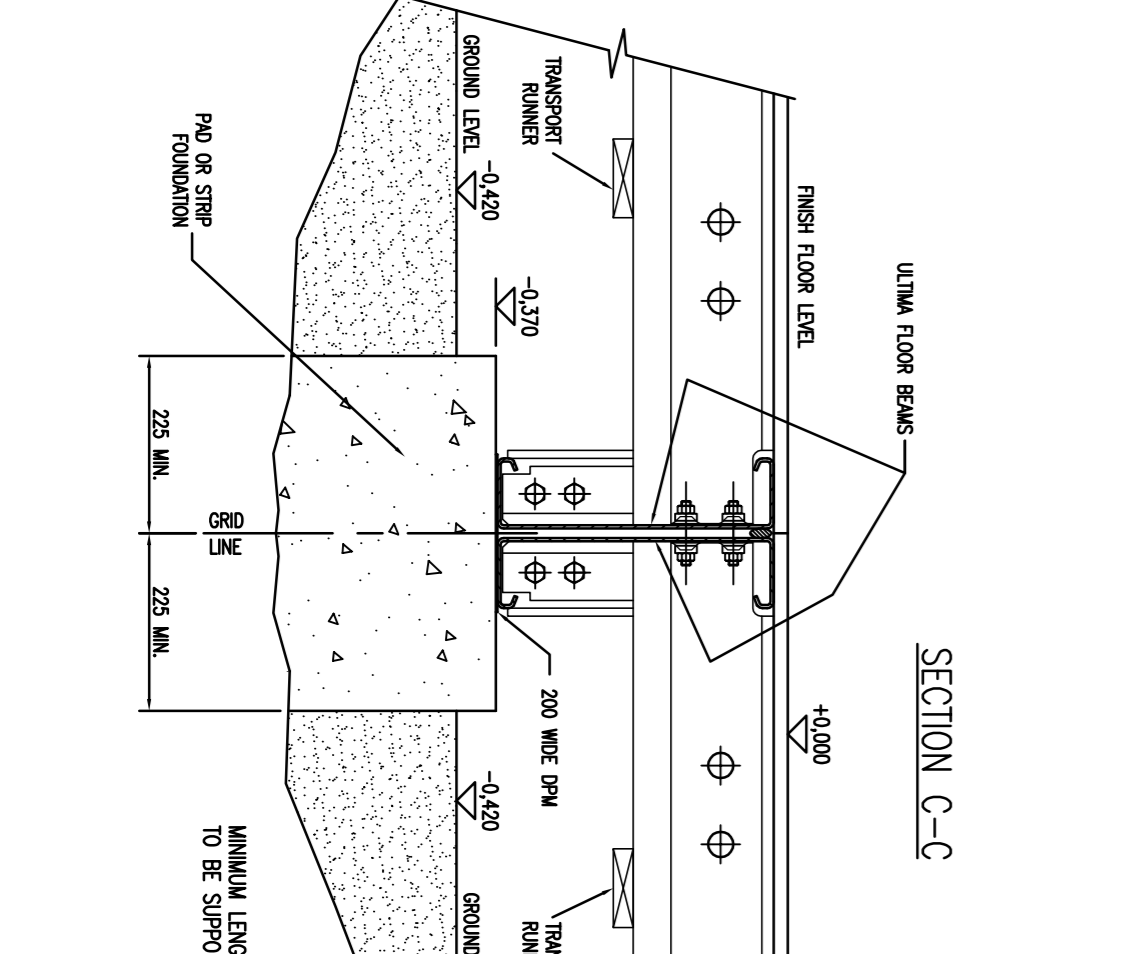
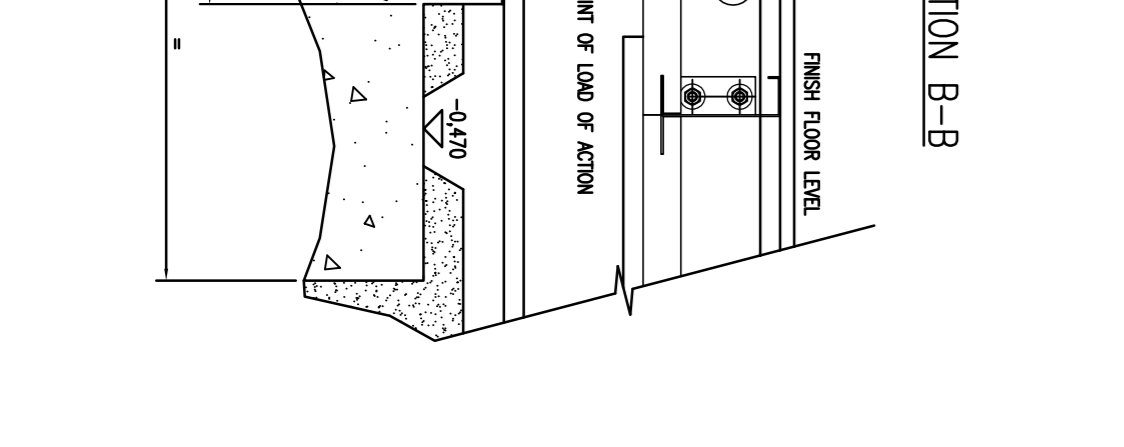
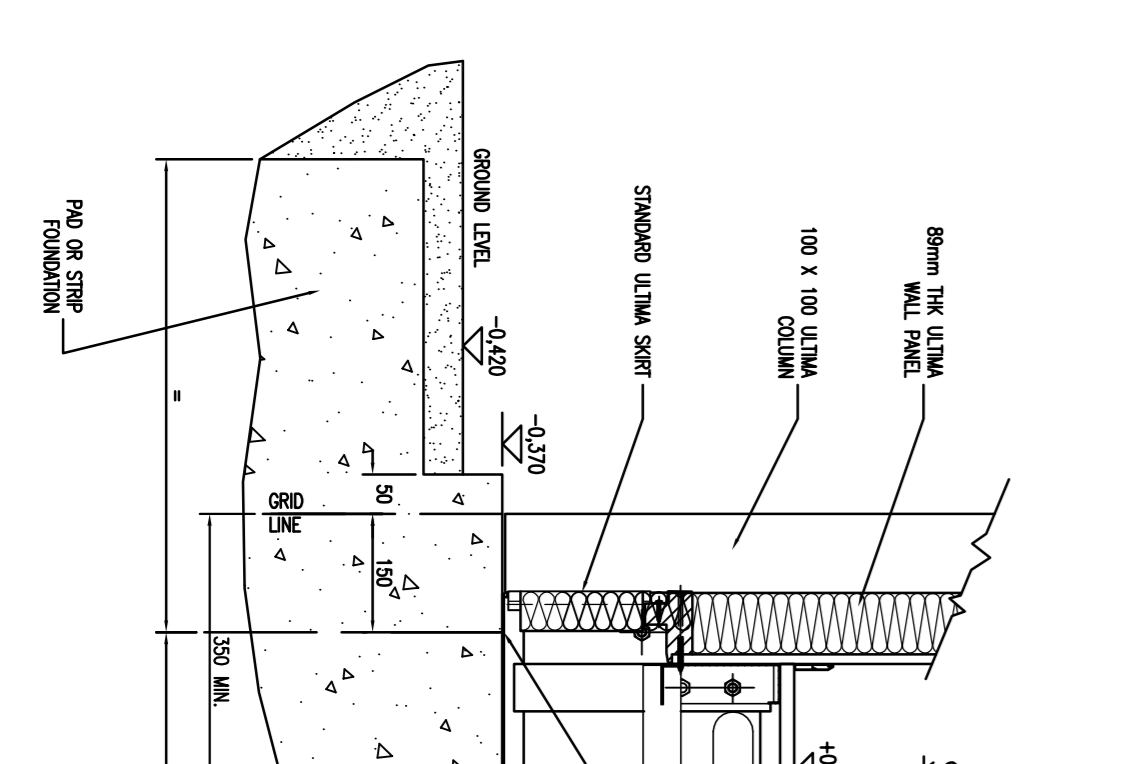
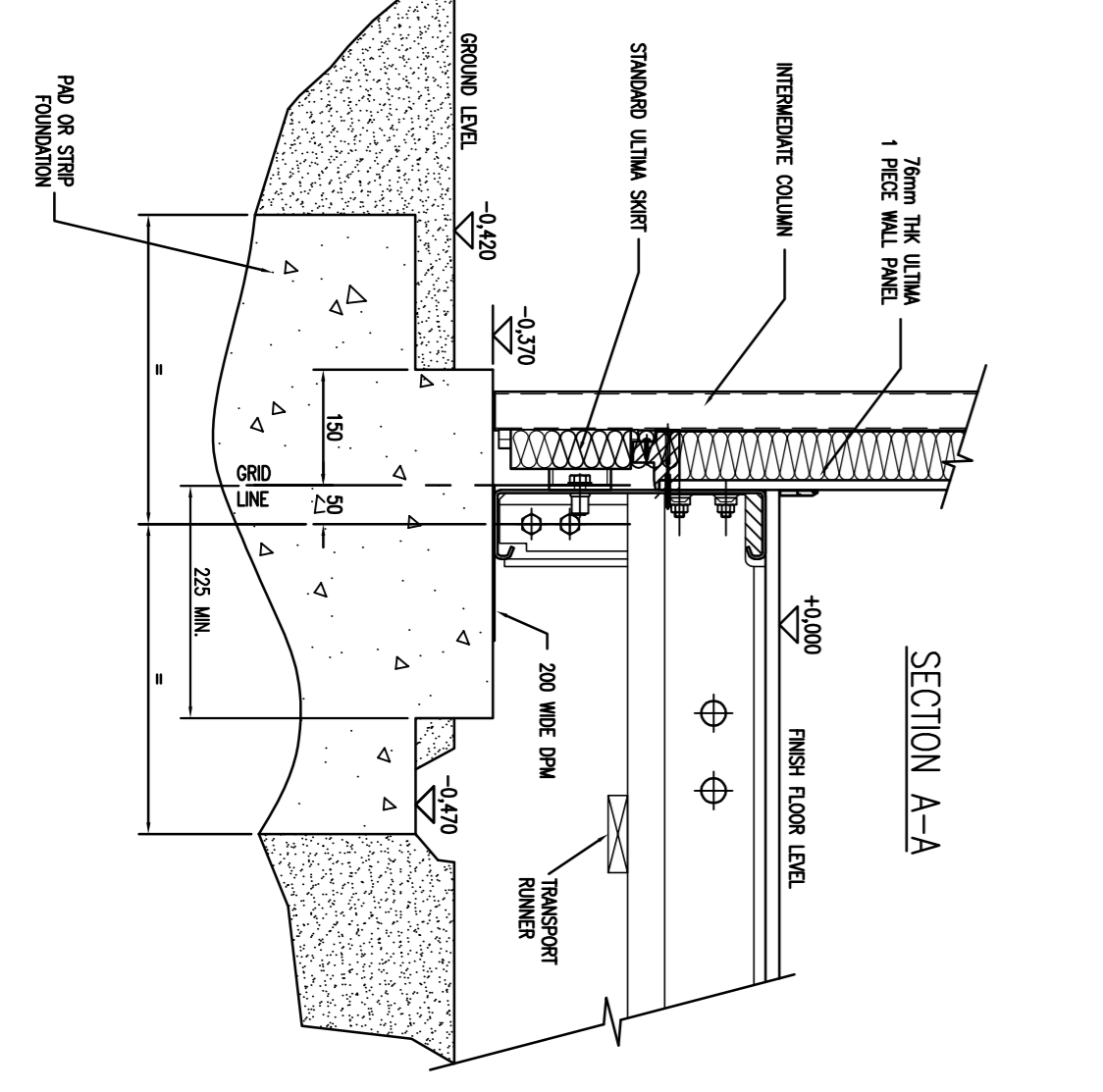
W' = Ø25mm MDEP MAINS COLD WATER INLET
 'EL' = ELECTRICAL INLET POINT
 X = Ø110mm SOIL CONNECTION
 B = Ø 50mm WASTE CONNECTION



ANCHORAGE COMPONENTS
 H.L.T. ANCHORS
 HIG 8 W/Ø17mm STAINLESS STEEL
 HIG 0/7mm H/L & W/Ø17mm
 H/L W/Ø17mm ADHESIVE FOR SPECIAL PRODUCT REF. 28 NIKOM
 SPECIAL PRODUCT REF. 28 NIKOM
 SPECIAL PRODUCT REF. 28 NIKOM

NOTES:

1. THE INFORMATION CONTAINED ON THIS DRAWING DESCRIBES THE FOUNDATION REQUIREMENTS FOR THE PROPOSED BUILDING TO ASSIST WITH THE DESIGN AND DETAILING OF CONSTRUCTION DRAWINGS. THE GRID REFERENCES AS SHOWN SHOULD BE INCLUDED ON ALL FOUNDATION CONSTRUCTION DRAWINGS.
2. FOUNDATIONS MAY TAKE THE FORM OF EITHER PADS OR STRIPS, DEPENDING ON SITE CONDITIONS. WHERE STRIP FOUNDATIONS ARE TO BE USED REVERSED FOUNDATION DESIGN LOADS CAN BE PROVIDED ON REQUEST. THE DESIGN SHOULD BE ESTABLISHED BY AN ENGINEER, ARCHITECT OR EXPERIENCED BUILDING CONTRACTOR.
3. FOUNDATIONS SHOULD BE DESIGNED IN ACCORDANCE WITH BS 8004 & BS8110. CONCRETE FOUNDATIONS SHALL BE AT LEAST TO C20P OR C30 GRADE TO BS5328.
4. FOUNDATION DESIGN LOADS AS SHOWN AT EACH PAD POSITION ARE IN kN & INCLUDE:
 THE DEAD WEIGHT OF THE BUILDING
 IMPOSED FLOOR LOAD OF 3kN/m²
 IMPOSED ROOF LOAD OF 0.75kN/m²
 IMPOSED WIND LOAD
 FOR BOLTING DOWN REQUIREMENTS WHEN REQUIRED SEE SECTION X-X. BOLTING DOWN POSITIONS ARE INDICATED ON FOUNDATION LAYOUT (4 NO. MARKED 'X').
5. CONSTRUCTION TOLERANCES:
 TOPS OF FOUNDATIONS MUST BE SMOOTH, FLAT & LEVEL.
 ALL FOUNDATIONS MUST BE LEVEL TO +0, -5mm. THE POSITION OF FOUNDATIONS MUST BE WITHIN 5mm OF STATED DIMENSIONS. CHECKS SHOULD BE MADE FOR SQUARENESS. THE OVERALL DIAGONAL TO BE + - 10mm OF CALCULATED DIMENSION.
6. ALL GRID LINES TO BE CLEARLY MARKED WITH INDELIBLE MARKING ON THE COMPLETED FOUNDATIONS TO ASSIST WITH CHECKING LEVELS & POSITIONING THE BUILDING.
7. LEVELS AT THE POINT OF LOAD FOR EACH GRID REFERENCE TO BE TAKEN & RECORDED ON THE FOUNDATION COMPLETION FORM.
8. THE FOUNDATION COMPLETION FORM IS TO BE COMPLETED & RETURNED TO PORTAKABIN LTD. BY THE AGREED DATE, IDEALLY 7 DAYS MINIMUM PRIOR TO THE ERECTION OF THE BUILDING.
9. ASSOCIATED GROUNDWORKS:
 THE FOLLOWING WORKS SHOULD BE COMPLETED AFTER THE ERECTION OF THE BUILDING:
 BOLTING DOWN (WHERE REQUIRED), DRAINAGE & SERVICE CONNECTIONS, CONCRETE FLOORS, ENTRANCE RAMPS, STEPS, PERIMETER PAVING, BRICK PLINTHS, & KERBSING.
10. ALL DIMENSIONS ARE FROM GRID LINES.
11. THE UNDERSIDE OF THE BUILDING SHALL HAVE AN INERT SURFACE. TOPSOIL & ANY VEGETABLE MATTER SHALL BE REMOVED FROM THE AREA TO BE COVERED BY THE BUILDING & A CHEMICAL WEED KILLER APPLIED TO THIS AREA. A LAYER OF CRUSHED STONE 100mm THICK MINIMUM SHALL BE PLACED & COMPACTED BY APPROPRIATE MECHANICAL MEANS, TO THIS AREA.
12. IF PAVEMENTS, LANDINGS, RAMPS, WALLS, ETC. ARE TO BE CONSTRUCTED ADJACENT TO THE WALLS OF THE ULTIMA BUILDING, SUCH WORKS SHALL BE DESIGNED & CONSTRUCTED TO AVOID DAMAGE TO THE ULTIMA BUILDING. THE REQUIREMENT FOR ADEQUATE VENTILATION TO THE UNDERSIDE OF THE BUILDING TO MEET THE BUILDING REGULATIONS SHOULD BE TAKEN INTO ACCOUNT.
 RWP = RAINWATER FALL PIPE (5 No.).



ANCHORS (SEE SPEC BELOW) SIPPED AND INSTALLED BY GROUND WORKS CONTRACTOR

NOTES:

1. THE INFORMATION CONTAINED ON THIS DRAWING DESCRIBES THE FOUNDATION REQUIREMENTS FOR THE PROPOSED BUILDING TO ASSIST WITH THE DESIGN AND DETAILING OF CONSTRUCTION DRAWINGS. THE GRID REFERENCES AS SHOWN SHOULD BE INCLUDED ON ALL FOUNDATION CONSTRUCTION DRAWINGS.
2. FOUNDATIONS MAY TAKE THE FORM OF EITHER PADS OR STRIPS, DEPENDING ON SITE CONDITIONS. WHERE STRIP FOUNDATIONS ARE TO BE USED REVERSED FOUNDATION DESIGN LOADS CAN BE PROVIDED ON REQUEST. THE DESIGN SHOULD BE ESTABLISHED BY AN ENGINEER, ARCHITECT OR EXPERIENCED BUILDING CONTRACTOR.
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 RWP = RAINWATER FALL PIPE (5 No.).

Project	CLASSROOM SOLUTIONS
Client	CLASSROOM STOCK WITH 5 W/C's
Title	FOUNDATION LOADING DRAWING SINGLE STOREY
Date	25/6/15
Scale	1:75 & 1:10 @ A1
Drawn	DF
Rev.	1

Portakabin
 Portakabin Limited Hurlingham York YO32 9PT
 Telephone 01904 61655 Fax 01904 611644

Appendix G. Risk Register

Project No: 520 6771

ID	RISK DESCRIPTION 'There is a risk that....'	CAUSE 'Results from'	CONSEQUENCE 'Leading to....'	PRE-MITIGATION			RESPONSE ACTION	ACTION OWNER	POST-MITIGATION		
				Probability	Severity	Score			Probability	Severity	Score
1	Budget v design during design process	Increased design work	Over spend and changes in programme.	3	2	9	Prepare a robust cost plan and include 10% design and construction risk contingency. Undertake all necessary surveys during early design stages to ensure adequate provision for scope has been included. Regular cost checks during design and review of brief requirements.	Client / Consultant	2	2	4
2	Client brief is not established	Lack of coordination	Ambiguous scope of service, higher potential for client dissatisfaction	3	3	9	Regular meetings contact and review with client to ensure requirements are fully understood.	Client / Consultant	2	3	6
3	Project is put on hold or is cancelled by the client	Construction cost is above budget and unaffordable. Failure to achieve Planning Consent, etc.	Commitments are cancelled resulting in loss in fees	2	2	4	Close management of client expectation and early communication around key deliverables, budget estimates, pre-planning advise etc.	Client / Consultant	1	2	2
4	Staff do not have the correct qualifications; DBS, CRB, CSCS, Asbestos Awareness	Failure to correctly undertake training of staff on a regular basis	Limited availability of appropriately qualified staff, difficulty in achieving deadlines with reduced team numbers.	2	3	6	Plan formal training for all relevant staff within the team.	Client / Consultant	2	2	4
5	Access around site will be restricted	Failure to develop an acceptable logistics plan	Non acceptance by client - programme delays and increased costs	2	4	8	Site logistics plan to be developed in coordination with client and building users to ensure an acceptable location and traffic plan is in place prior to starting on site.	Client / Consultant	1	2	2
6	Noise from construction	Construction work	Disruption of teaching	3	2	9	Employ contractors who adhere to schemes such as the Considerate Constructors Scheme. Ensure a site manager is employed and good liaison is implemented.	Contractor	1	2	2
7	Works in a school environment	Working around staff and pupils	Programme, disruption to teaching, H&S	2	4	8	Ensure access routes are separated from the school site through robust Logistics plan and traffic management. Movement of contractors to and from compounds to be coordinated not to coincide with pupil movements.				
8	Contractor knowledge and appreciation of requirements is poor	Contractor does not fully review and consider the contents of the contract brief.	Cost increases and poor quality	2	4	8	Appropriate selection of contractors by SCC with good track record. Comprehensive tender documents.	Client / Consultant	1	2	2
9	Asbestos or other deleterious materials being uncovered during construction	Lack of asbestos information / inadequate surveys carried out during design stage.	H&S, cost and programme increases	3	4	12	Review existing asbestos management survey information and carry out a detailed R&D survey of areas of work.	Contractor/consultant	2	4	8
10	Interruption to services during works	Isolating services for modular building connections and/or new connections made.	H&S, cost and programme increases	2	4	8	Careful coordination with the school to agree suitable dates/times for connections/disconnections.	Contractor	1	4	4
11	COVID-19 pandemic causing lockdown	COVID-19 causing lockdown	Cost and programme changes	3	5	15	Site set up to be in accordance with latest CLC SOP guidelines	Contractor	3	4	12
12	COVID-19 labour shortage	Outbreak of COVID-19 causing self-isolation	Cost and programme changes	3	5	15	Works to be done in accordance with latest CLC SOP guidelines	Contractor	3	4	12
13	Weather causes delays	Poor weather conditions	Cost and programme changes	2	2	4	Elements of work will be weather dependant however the fabrication of the modular units are completed within factory environments, thus reducing risk.	Contractor	2	2	4
14	Planning permission is rejected	Poor planning application submission and or lack of supporting information	Programme delays and increased costs	3	5	15	Early discussion with the LPA and submission of a pre planning application	Client / Consultant	1	5	5
15	Unforeseen ground conditions or obstructions	Poor ground conditions	Cost and programme changes	3	5	15	Carry out early ground investigations. Contingency allowance to be included to allow for further unforeseen ground related issues.	Client / Consultant	1	5	5
16	Below ground services are damaged	Undetected below ground services	Cost and programme changes	2	4	8	Undertake below ground services scans during design	Client / Consultant	1	5	5
17	Crane safety	Use of crane during moving of modular units	H&S, Cost and Programme changes	3	5	15	Crane lifts to be carefully coordinated with the client and site to agree suitable dates and times. Site logistics plan to be developed to indicate safe lifting areas. Contractor to develop a lifting plan and method statement to be agreed by CA.	Contractor	1	4	4
18	TPO's	Building within close proximity to tree root protection zones	Cost and programme changes	3	5	15	Early consultation with arboriculturist to agree tree root zones to avoid.	Client / Consultant	1	5	5
19	Made up ground	Made up ground is poor and/or hazardous material found	H&S, Cost and Programme changes	3	5	15	Early Ground Investigations to determine build up of ground.	Client / Consultant	1	5	5

Ranking Methodology note

Ranking	Probability	Financial	Programme	Impact On Business
1	Improbable	Insignificant	Insignificant	Insignificant
2	Remote	Minor	Minor	Minor
3	Moderate	Moderate	Moderate	Moderate
4	Probable	Major	Major	Major
5	Frequent	Catastrophic	Catastrophic	Catastrophic

Appendix H. Programme



St Monica's Feasibility Stage Programme					Job Number: 5206771																						
ID	Task Name	Duration	Start	Finish	Predecessors	021		Qtr 3, 2021			Qtr 4, 2021			Qtr 1, 2022			Qtr 2, 2022			Qtr 3, 2022			Qtr 4, 2022				
						May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct				
0	St Monica's Feasibility Stage Programme	75.4 wks	Tue 04/05/21	Wed 19/10/22		[Project Summary Bar]																					
1	RIBA Stage 1 - Feasibility	28.6 wks	Tue 04/05/21	Fri 19/11/21		[Summary Bar]																					
2	Project Kick-off Meeting	5 days	Tue 04/05/21	Wed 19/05/21		[Task Bar]																					
3	Obtain Quotations for Specialist Surveys	2 wks	Fri 21/05/21	Fri 04/06/21	2	[Task Bar]																					
4	Instruct Specialist Surveys inc. Civil, M&E, Modular specialist, NCA	1 wk	Mon 07/06/21	Fri 11/06/21	3	[Task Bar]																					
5	Specialist Surveys inc. Civil, M&E, Modular specialist, NCA	4 wks	Thu 20/05/21	Thu 17/06/21	2	[Task Bar]																					
6	Develop Feasibility Report	4 wks	Fri 18/06/21	Thu 15/07/21	5	[Task Bar]																					
7	Feasibility Review Meeting with SCC	1 day	Tue 20/07/21	Tue 20/07/21		[Task Bar]																					
8	Feasibility Sign-off meeting	1 day	Wed 28/07/21	Wed 28/07/21		[Task Bar]																					
9	Gateway Review	2 wks	Mon 16/08/21	Fri 27/08/21		[Task Bar]																					
10	Standstill period - Funding Approval	8 wks	Mon 30/08/21	Fri 22/10/21	9	[Task Bar]																					
11	Procurement / Appointment of Consultant	4 wks	Mon 25/10/21	Fri 19/11/21	10	[Task Bar]																					
12	Project Procurement Plan, SCC request for procurement	4 wks	Mon 25/10/21	Fri 19/11/21		[Task Bar]																					
13																											
14	RIBA Stage 2 & 3 - Concept Design and Spatial Coordination	13 wks	Mon 22/11/21	Fri 25/02/22		[Summary Bar]																					
15	Obtain quotes, instruct and complete specialist surveys. SCC to raise PO's	6 wks	Mon 22/11/21	Fri 07/01/22	12	[Task Bar]																					
16	Initial Statutory Consultation inc. Planning and Building Control	1 wk	Mon 22/11/21	Fri 26/11/21	12	[Task Bar]																					
17	Develop design through engagement with Stakeholders RIBA Stage 2	4 wks	Mon 06/12/21	Fri 07/01/22		[Task Bar]																					
18	Issue Stage 2 Report	1 day	Fri 07/01/22	Fri 07/01/22		[Task Bar]																					
19	Gateway Review	2 wks	Mon 10/01/22	Fri 21/01/22	18	[Task Bar]																					
20	Further development of design RIBA Stage 3	3 wks	Mon 24/01/22	Fri 11/02/22	19	[Task Bar]																					
21	Issue Stage 3 Report	1 day	Fri 11/02/22	Fri 11/02/22		[Task Bar]																					
22	Gateway Review	2 wks	Mon 14/02/22	Fri 25/02/22	21	[Task Bar]																					
23																											
24	RIBA Stage 4 - Technical Design	17 wks	Mon 28/02/22	Fri 24/06/22		[Summary Bar]																					
25	Further development of design RIBA Stage 4	3 wks	Mon 28/02/22	Fri 18/03/22	22	[Task Bar]																					
26	Prepare and Submit Planning and Build Regs applications	1 wk	Mon 28/02/22	Fri 04/03/22	22	[Task Bar]																					
27	Produce Tender Documents	2 wks	Mon 21/03/22	Fri 01/04/22	25	[Task Bar]																					
28	Gateway Review	2 wks	Mon 04/04/22	Fri 15/04/22	27	[Task Bar]																					
29	Planning and Building Regs approval period	8 wks	Mon 07/03/22	Fri 29/04/22	26	[Task Bar]																					
30	Tender Invitation	4 wks	Mon 18/04/22	Fri 13/05/22	28	[Task Bar]																					
31	Tender Adjudication	2 wks	Mon 16/05/22	Fri 27/05/22	30	[Task Bar]																					
32	Contract Award and Contract Formation	4 wks	Mon 30/05/22	Fri 24/06/22	31	[Task Bar]																					
33																											
34	RIBA Stage 5 & 6 - Construction to Practical Completion	16.8 wks	Mon 27/06/22	Wed 19/10/22		[Summary Bar]																					
35	Construction Phase	16.8 wks	Mon 27/06/22	Wed 19/10/22		[Summary Bar]																					
36	Purchase and fabrication of modular units	14.2 wks	Mon 27/06/22	Fri 30/09/22	32	[Task Bar]																					
37	Mobilisation Period	4 wks	Mon 27/06/22	Fri 22/07/22		[Task Bar]																					
38	Construction Phase 1 - M&E Upgrades and Soakaway installation	4 wks	Mon 25/07/22	Fri 19/08/22	37	[Task Bar]																					
39	Construction Phase 2 - Foundations and landscaping	6 wks	Mon 08/08/22	Thu 15/09/22		[Task Bar]																					
40	Delivery of Modular Units (potentially over weekend before)	1 day	Mon 03/10/22	Mon 03/10/22	36	[Task Bar]																					
41	Commissioning and Modular Unit Connections	1 wk	Tue 04/10/22	Mon 10/10/22	40	[Task Bar]																					
42	Snagging Period	5 days	Tue 11/10/22	Mon 17/10/22	41	[Task Bar]																					
43	Contract Completion	1 day	Tue 18/10/22	Tue 18/10/22	42	[Task Bar]																					
44	Handover	1 day	Wed 19/10/22	Wed 19/10/22	43	[Task Bar]																					

St Monica's Feasibility
Date: Thu 12/08/21

SCC		F&G		FGSCC		Milestone		Project Summary	
SCC Key Decision		Contractor		Split		Summary			

Marc Trask
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