

Fire Prevention Plan



Blandford Waste Management Centre
W&S Waste Management Ltd

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Site details

Site name: Blandford Waste Management Facility
Site address: Land South East of Sunrise Business Park, Blandford,
Dorset, DT11 8ST
Operator name: W&S Waste Management Ltd

Who this plan is for

This Document is designed for site management and staff, fire officers, Environment Agency officers and contractors working on site.

Document owner

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Approved by : W&S Environmental Working Group

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1. Types of combustible materials

Combustible waste

The proposal is for a waste management centre comprising of 2 elements :

- a) waste transfer station (WTS)
- b) household recycling centre (HRC)

The Centre will accept a wide variety of household waste and recycle and will receive and bulk up materials collected from Dorset Council's kerbside collections and from Dorset Council's commercial waste collections.

Commercial/trade waste may be accepted at the WTS from individual traders.

Combustible wastes at the site will include :

- paper or cardboard
- plastics
- rags and textiles
- scrap metals
- plant/green waste material
- mixed household waste containing any combustible wastes
- WEEE including:
 - fridges
 - computers and televisions containing combustible materials such as plastic (including any batteries within this equipment)
- whole tyres
- wood
- batteries
- waste oils
- food waste
- aerosols
- gas bottles
- mattresses
- carpet
- paint

Persistent organic pollutants

POPs may be present in some of the wastes accepted at the site as the site will accept wastes such as :

- Washing machines
- Tumble driers
- Dishwashers
- Cookers
- Relevant soft furnishings

The site also accepts :

- Fridges and Freezers which are hazardous but not classified as POPs waste.

The site will also accept small WEEE items such as :

- IT equipment
- TV & monitors
- Ni-Cd batteries
- Small WEEE – toys, hairdryers, toasters etc
- Cables
- Fluorescent lamps

As it will not be possible to confirm that these items were manufactured before 1st January 2009 and we will not be able to confirm that they do not contain POP these will be classified as hazardous and POPs waste.

Other combustible materials

There will be other combustible material on site such as fuel for the on-site plant and vehicles. This is contained in a bunded fuel store to the side of the WTS Barn building. The maximum quantity stored will be 2700 litres of diesel. There will also be 2 drums of lubricating oil in this building.

There is a reuse building on site and also recycling clothing bins.

See site plans 1553 in Appendix 1.

2. Using this fire prevention plan

This fire prevention plan forms part of our management system. It sets out the fire prevention measures and procedures we have in place and use on our site at Blandford. This fire prevention plan is a standalone document within our management system so that we can easily refer to it.

During an incident, we will show the FRS our fire prevention plan, if it is safe and practical to do so. There will also be a copy of the fire prevention plan in a Fire Box at the entrance to the site.

We will keep our fire prevention plan under regular review and revise it where necessary for example if:

- there is reason to suspect it no longer meets the objectives of the EA guidance
- we have a fire or identify a near miss of a fire
- we change our activities

- the environment we are operating in changes, for example if a school or residential development is built nearby
- the EA ask us to revise it due to some concern over the risk posed by our operation.

If we revise our fire prevention plan, we will send our revised plan to the Environment Agency to approve. We will implement the approved, revised plan.

Where the plan is kept and how staff know how to use it

All staff and contractors working on site will understand the contents of the fire prevention plan which are relevant to them so that they know what they must do:

- to prevent a fire happening
- during a fire if one breaks out.

Contractors will receive an induction which will cover training in the relevant sections of the fire plan depending upon their role on site.

We will keep a paper copy of this site plan in the office on site so that staff can access it easily. There will also be another copy in the fire box at the entrance to the site.

Staff will know how to use the fire prevention plan as there will be induction training for all new site staff and this will include the fire prevention plan and, in addition, there will be, as a minimum, annual training in the implementation of the fire prevention plan.

Testing the plan and staff training

We will train our staff and we will conduct regular exercises (at least annually) to test how well our fire prevention plan works.

The exercises will include, but will not be limited to:

- what staff need to do to prevent a fire occurring
- what to do during a fire if one breaks out
- staff will understand how to ensure that the drainage system penstock valves work
- staff will understand how to assist the Fire Service and this will include plant drivers knowing what is safe for them to do.

The exercises will fully test our fire prevention plan.

3. Fire prevention plan contents

Activities at the site

Waste Transfer Station

The main building on site (the Barn) is the waste transfer building.

The Barn will primarily accept all household waste from the kerb side collections. Dorset Council's Waste Services also run commercial waste collections that will feed into the Barn facility. Commercial/trade waste may also be accepted at the WTS from individual traders. The waste accepted will comprise of recyclates, garden waste, food waste and general waste. The Barn will also serve as a bulking area for materials received through the Household Recycling Centre.

This building has a lower level at the rear (north east side) which consists of a covered loading bay where lorries will be filled with waste for removal off site.

It is anticipated that the Barn will have an annual throughput of approximately 24,000 – 29,000 tonnes each year.

Under normal conditions drainage requirements within the Barn building will be minimal. Storage areas will be contained and any runoff will flow into the loading bay area and then on to a sealed underground tank. Runoff from the roof and external paved areas will be discharged to a dedicated SuDs drainage system.

Within the Barn there will be simple bulking up of waste for onward transportation. There may also be some baling of materials to allow for more efficient transportation.

Household Recycling Centre

The Household Recycling centre has been designed to accept waste and recycling delivered to the site by householders.

The HRC element of the site will be a split-level facility – a higher area for householders to drive into and a lower yard area, with the large skip containers for household waste, accessed via jetties. The HRC has been designed to receive waste delivered to the site from householders and the storage of those wastes in dedicated areas and/or containers prior to transportation for reprocessing or final disposal.

There is a site office with staff car park, which will be located near to the entrance of the HRC.

There is a Waste Electrical and Electronic Equipment (WEEE) building at the HRC, a proprietary, contained household chemical waste store, waste oil store and a public re-use sales area. There will also be a skip container for small WEEE on the lower skip container area.

A low-level canopy will cover the pedestrian recycling area, walkways and partially cover the skip containers.

It is anticipated that approximately 6,000 tonnes of HRC recycling will be delivered to the HRC site annually.

Plant and equipment available on site for use to assist the Fire Service includes a loading shovel, 360 excavator, fork lift and a service vehicle for moving containers/skips.

The collection of stored wastes will be carried out by articulated bulker vehicles, and outgoing vehicles will be sheeted to prevent windblown debris.

Site plans

See plans in Appendix 1

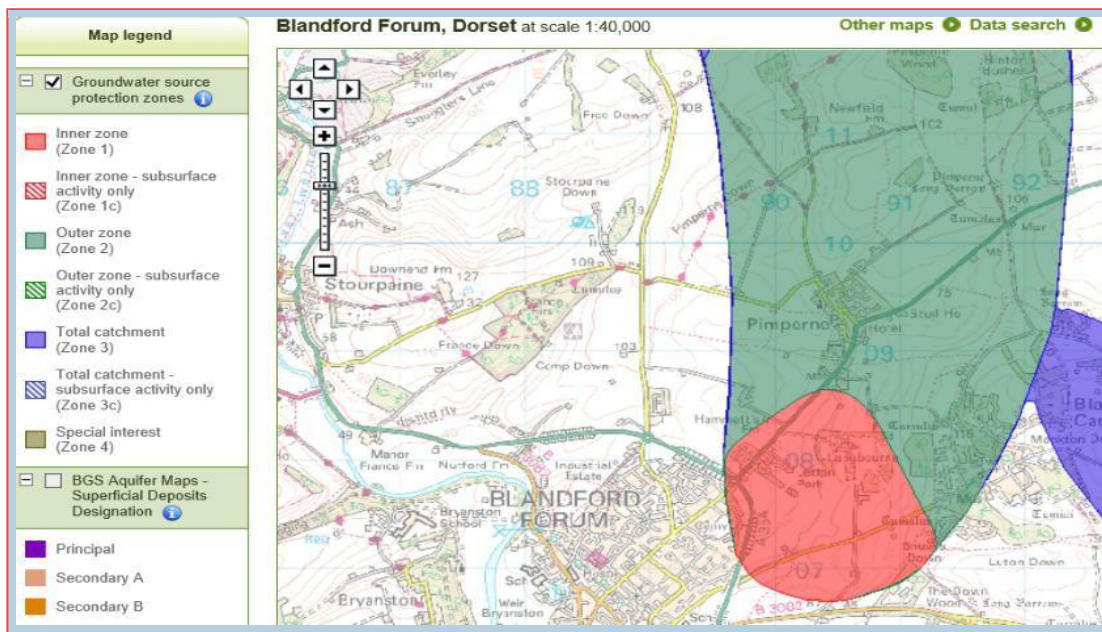
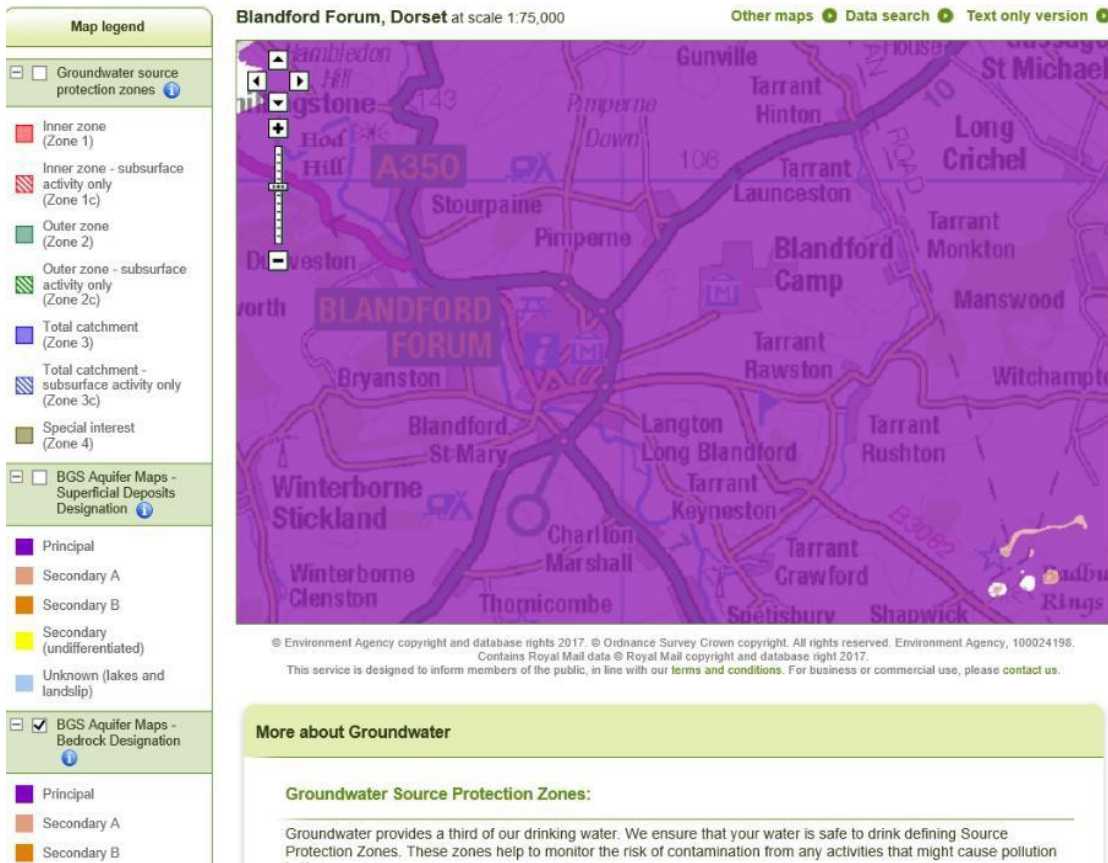
Plan of sensitive receptors near the site

The main potential receptors near to the Site are shown on Drawing No CEC/BWMC/001 (Appendix 1) and consist of local residents, commercial businesses, the local highways and the Milldown SNCI which is approximately 600m to the southwest of the site. The ground-water is also a receptor.

Receptor list

Receptor reference (see Drawing No CEC/BWMC/001 and groundwater maps below)	Land use e.g. house, school, hospital, commercial	Direction from Site (North, South, East, West)	Approximate distance to Site boundary (m)
1	Closest residential property on Kites Corner	Southwest	175m
2	Closest residential property on Bracewell Close	Southeast	230m
3	Closest residential property on Gurkha Road	Southeast	280m
4	Closest commercial and industrial properties off Wendal Road (Lidl and Glenmore Business Park)	Southwest	120m
5	Capers Pre-School	North	290m
6	Crazy Monsters Soft Play	Northwest	130m

7	Closest commercial retail properties within Sunrise Business Park	North	40m
8	Closest residential property on Letton Close	Southeast	610m
9	Hammetts Farm	Northeast	650m
10	Hammetts Farm Cottage	Northeast	800m
11	A mixed-use development to include residential dwellings is being brought forward on land adjacent to the Site. The layout plan identifies that the land immediately adjacent to the Site will be used for allotments and a recreation ground. The closest high sensitivity receptor will be the proposed primary school approximately 350m southeast of the Site boundary	Southeast	350m
12	Closest point representing proposed residential dwellings on land adjacent to Site	Southeast	810m
13	Camp Down Farm	Northwest	200m
14	Milldown SNCI	Southwest	600m
See maps below	Groundwater SPZ	Southeast	500m



4. Managing common causes of fire

Arson

The site is surrounded by anti-climb fencing. The gate at the entrance is a steel structure, 2.0m high.

CCTV is installed, which will activate an infra-red camera in the dark, and this will monitor key areas for security and Health and Safety purposes. Intruder alarms are fitted which will send an alert to a designated mobile phone.

Except in the cases of emergency to maintain safety no operations will take place outside the following hours :

The WMC will be operated between 0700 and 1900 hours, Monday to Sunday.

The HRC will be open to the public every day except Christmas Day, Boxing Day and New Year's Day between the following times:

1 April – 30 September 09:00 to 18:00

1 October – 31 March 09:00 to 16:00.

All perimeter fencing, gates etc are checked at the end of daily operations. All gates are locked, doors to buildings all locked and checked at the end of the working day. The office building is alarmed.

Procedures are in place for all visitors/contractors (escorted or supervised) within the Barn and main yard area of the site.

Plant and equipment

Plant and equipment available on site for use to assist the Fire Service includes a loading shovel, 360 excavator, fork lift and a service vehicle for moving containers/skips. All mobile plant are fitted with a fire extinguisher. The plant is maintained in accordance with the manufacturer's instructions and all plant and equipment is checked and serviced in accordance with L.O.L.E.R and P.U.W.E.R testing. Electrical equipment is PAT tested.

Plant and equipment is checked at the beginning of each day for leaks to the hydraulic systems, oils and other fluids to prevent the trailing of any fluids around the site.

Plant and equipment which could accumulate dust are regularly cleaned to ensure that no dust accumulates which could result in a fire hazard.

Plant keys are removed from the ignition when unattended or not in use.

At the end of each working day mobile plant will be parked in an area at least 6m away from any combustible wastes.

Electrical faults

Electrics certification

All electrical installations will be installed by competent and qualified contractors.

Electrical equipment maintenance arrangements

Electrical installation will be maintained in accordance with the recommendations issued by the installer. A competent and qualified electrical contractor will conduct all electrical maintenance. Electrical equipment is PAT tested.

Discarded smoking materials

The entire site is a no smoking area.

Hot works safe working practices and Fire watch

There are no regular hot works on site but there may occasionally be the need to cut and/or weld on site. When needed a mobile welder and propane, oxygen and CO² flame cutting bottles will be brought to site for use. These gas bottles will not be stored on site.

A permit to work scheme is in place and a fire watcher is placed in charge whilst the “hot-work” operations are in progress and to patrol in or about any structure of the building close to the hot-work operations. The fire watch will be conducted for at least one hour after completion of the work to ensure that the area is cooled and free from any source of re-ignition and will be conducted in accordance with “METHOD STATEMENT Hot cutting (hot work)” see Appendix 2.

All staff involved will be informed of the action to be taken in the event of a fire and on how to activate any fire alarm system.

Industrial heaters

There will be no industrial heaters used on site.

There will be radiators connected to an air source heat pump in the site office. This system will be installed by fully competent electricians and maintained by competent electricians.

Hot exhausts and engine parts

There is a formal daily site inspection during the operating hours and this inspection will include detecting signs of a fire caused by dust settling on hot exhausts and engine parts. In addition, throughout the day staff are trained to be aware of any signs of a fire on a continual basis and if signs are detected appropriate action will be taken to remove the risk or suppress the fire. A fire watch will also be carried out at the end of the working day.

Ignition sources

This section is not applicable as there are no additional ignition sources other than those listed in this section ie batteries, hot exhausts, industrial heaters etc.

Batteries

Lead/acid batteries will be stored in a manner to prevent terminals touching each other to avoid short circuits and the associated heating of waste batteries. They will be stored in a plastic covered container.

Leaks and spillages of oils and fuels

Fuels are stored in a designated fuel store building and combustible liquids such as waste oil are stored within a bunded building.

To minimise fluids leaking or trailing from site vehicles there is a preventative maintenance programme.

The operator has a spillage procedure (OP04 Spillage Procedure Appendix 3) which described how spills should be dealt with. The location of the spill kits are marked on the site plans 1553 (see Appendix 1).

Build-up of loose combustible waste, dust and fluff

Plant and equipment which could accumulate dust and fluff are regularly cleaned to ensure that no dust accumulates which could result in a fire hazard.

Reactions between wastes

There is minor risk of a reaction between waste types at this type of waste facility. However, any risk will be minimised as most waste types will be stored separately to facilitate recycling. WEEE waste have their own waste store as do wastes such as oils and household chemicals.

Waste acceptance and deposited hot loads

Waste is accepted at the Barn WTS part of the site via the Councils waste collection vehicles. This waste is either black bag waste or is from the Council's kerb side collections of materials for recycling. This waste is all from a known source.

All RCVs and HGVs entering or exiting the site are directed over the weighbridge with the appropriate tickets being issued at this location.

Within the HRC area of the site waste will be delivered by members of the public who may not understand the risk of hot loads. Staff on site are trained to be aware of the dangers of hot loads and to look out for any wastes such as barbeque waste which could be hot and to ensure that they are not accepted or are checked to ensure they do not present a fire risk.

Given that the operation at the facility is purely for waste and recyclables delivered under contract or by the general public and small commercial traders the risk of receiving unauthorised waste is minimal.

Nevertheless, during the normal waste acceptance procedures, waste transfer notes will be checked if applicable and any unauthorised wastes or wastes likely to be a fire hazard such as hot loads would be refused.

If any such unauthorised waste is discovered once waste has been delivered to either the WTS or the HRC it will be isolated within the quarantine area and if hot either be left to cool, if appropriate, or a fire extinguisher used if there is an imminent risk of combustion.

Hot and dry weather

There is very little risk of fire risk caused by external heating due to hot and dry weather as most of the waste will either be shaded within the Barn WTS or will be partially shaded by the canopy within the HRC part of the facility. In addition, storage times are kept to a minimum.

Glass waste will be stored separately from other wastes which will prevent sunlight reflecting and causing heating.

5. Preventing self-combustion

General self-combustion measures

There should be no risk of self-combustion at the site as no waste will be stored on site for longer than 3 months. Therefore, this section does not apply.

6. Managing waste piles

Storing waste materials in their largest form

Waste is only bulked up on site and there is no shredding or size reduction which takes place. The material is, therefore, left in its largest form until it leaves the site.

Maximum pile sizes for the waste on your site

For all waste stockpiles within the Barn the maximum height allowed will be 4m.

The maximum size of stockpile on site will be one of the waste storage bays within the Barn as detailed below:

Waste stream	Location	How it is stored	Max. length / m	Max. width / m	Max. ht / m	Vol / m ³	Max. time it will be stored
Barn storage bays-	The Waste Transfer Barn	Within concrete bays (fire walls on three sites). Open fronted	13.5m	6.3m	4m	312m ³ see Appendix 4 for calculation	Less than 3 months
Outside skips- various As there will be two skips together and within 6 m of each other these 2 skips will be counted as one stockpile	Lower yard area	40 cubic yard (30m ³) container	n/a	n/a	n/a	2 x 30m ³ = 60m ³	Less than 3 months
Waste oil	waste oil store building	Covered concrete bunded building	2 x 3000 litre tanks for oil			6000 litres	Less than 3 months
Household chemical wastes	Proprietary chemical store – metal and contained	Proprietary chemical store – metal, contained and bolted to ground	2m ³			2m ³	Less than 3 months
WEEE	WEEE building	Containers within building or on floor in building	Building is 11.7m X 5.7m Waste stored max 2m high eg 2 washing machines			<133m ³	Less than 3 months

7. Where maximum pile sizes do not apply

Waste stored in containers

Types of containers you are using

The waste which is collected in the household waste recycling centre will be collected and stored in containers that can be moved; mainly 30m³ skips or smaller recycling containers as applicable.

Each container will be accessible from at least one side so a fire can be extinguished.

If there is a fire, we will be able to move containers to prevent the fire spreading. During working hours either the burning container will be moved to the quarantine area where the fire can be extinguished, or waste will be moved from around any burning waste so that the fire can be extinguished. The decision will be based upon the circumstances at the time of the fire, the nature of the fire etc and will be taken by the site manager or the Fire Service.

If the Fire Service is in attendance the plant driver will work under the instruction of the fire command.

8. Preventing fire spreading

Separation distances

The Barn and the Household Recycling Centre are separated from each other by a large yard and there will be more than 6m separation between the Barn and waste containers on the yard area.

Within the Barn there will be bays which will run on either side of the Barn building. There will be more than 6m separation between the bays on opposite sides of the Barn. Fire walls will be used to separate the bays along each side of the Barn (see Plan no 1553 Appendix 1).

Within the yard area there will be a number of container skips into which members of the public will deposit their waste. The skips will be separated by fire walls of 300mm width and a gangway of 1.4m, giving a total of 2.0m horizontal distance between skips (see Appendix 5 for fire wall calculations) .

There is also a waste oil storage building on site which is built as a concrete bunded area and there is a WEEE building for fridges/freezers/white goods. These buildings provide containment and separation of waste types.

Fire walls construction standards

The waste storage bays within the Barn WTS are constructed of concrete and these concrete bays have been designed to function as fire walls.

The construction of the waste oil building is such that it has an integral concrete bund which forms the lower part of the building (above the bund wall there is open grills to the north east side of the building so that any fumes can be dissipated from the area).

Both the waste bays within the Barn and the bunding of the waste oil building will resist fire (both radiative heat and flaming) for a period of at least 120 minutes (see calculations in Appendix 5).

To protect the inside of the Barn bays from operational damage it is proposed to clad these in steel plate. There is a fire suppression system within the Barn which will activate if there is a fire and it will keep these walls doused with water and, therefore, cool which will assist in the maintenance of the thermal barrier properties of these bay walls.

There are additional fire walls between pairs of skips within the HRC part of the facility (see fire resistance calculations in Appendix 5).

Storing waste in bays

The bays within the Barn WTS described above have been designed to have fire walls to:

- resist fire (both radiative heat and flaming)
- have a fire resistance period of at least 120 minutes to allow waste to be isolated and to enable a fire to be extinguished within 4 hours.

As we will be storing in bays, we will ensure that we conduct full and frequent stock rotation. We have a first in, first out policy. The main issue is that we need to ensure that there isn't waste building up at the back of the bays in the Barn that never gets removed or is in the bay long enough for self-heating ie 3 months. This will be done by emptying and cleaning the bays which contain combustibles by working down one side of the bay and then the other side on a regular basis. This will mean that the waste is stored for a maximum of 1 month. Records will be kept of the date the bay is cleared to the back. This will be done using a dated photograph.

As the combustible waste will not be in the bays for longer than 1 month there should be no self-heating and so there will be no need to check the temperature of the waste within the bays.

We will keep always clear a 'freeboard' space of 1m minimum at the top and sides of the walls to prevent fire spreading over and around the walls.

If a fire does start on the site then, using the plant and equipment on site, we will quickly and effectively remove any wastes at risk of ignition to the quarantine area to isolate any bays with burning waste during any fire incident or we will move the burning waste to the quarantine area. This will depend upon the circumstances at the time of the fire.

9. Quarantine area

Quarantine area location and size

There is a quarantine area at the site (see Plans 1553, Appendix 1). The quarantine area is within the permitted site and is large enough to have a separation distance of at least 6m around the quarantined waste and hold 50% of the volume of the largest pile (i.e. 50 % of $312\text{m}^3 = 156\text{m}^3$).

How to use the quarantine area if there is a fire

The aim of the quarantine areas is :

- to enable any burning materials to be spread out in an open area to aid extinguishing the materials, or
- to move combustible materials away from burning materials to prevent the fire spreading, or
- to enable containers of waste which are either on fire or at risk of catching fire to be moved to a safe place.

The quarantine area is a minimum of 6m separation distance from any combustible materials to prevent the spread on any fires. The location has also been considered to ensure that the Fire Service will be able to gain access easily and to allow site plant to move materials around the site as required.

In the event of a fire, the staff and plant on site will be available to move waste as soon as possible and, within 1 hour of a fire starting, so that either burning waste can be moved to the quarantine area or unburned waste can be moved away from burning material.

Procedure to remove material stored temporarily if there is a fire

This quarantine area will be kept clear at all times – unless it is being used in the event of a fire.

During normal site operations it is used for the movement and circulation of vehicles. In the event of a fire all such vehicles will be moved away from the fire to a safe area.

10. Detecting fires

The Barn part of the facility will be provided with manual break glass fire alarms as well as smoke detection and heat detectors which will to be connected to a standalone Fire Alarm Panel.

There will be transmission of Fire and Fault signal from this system to the local fire brigade.

The infrared (heat) detection system for inside the main Barn has the function to detect those sources of fire in the absence of or with poor smoke generation. It is proposed to install two multi spectrum quad band triple flame infrared detectors certified according with the BS EN 54-10 standards. These will be installed at a height of 7m from ground level. The detectors will be capable of a cone vision not less than 90°, adjustable sensitivity, interfaceable with the general fire detection system.

Offices and other areas shall be provided with smoke detection and manual break glass and sounders. See drawings in Appendix 6.

On the yard area there will be waste skips into which the public will place their waste. This area of the external yard will have infra-red detection systems to detect fire within the skips. This system will raise an alarm to the Fire Service and a nominated person from the site management.

Certification for the systems

The fully automatic fire alarm and detection system, installed in the Barn and buildings, will be installed to provide protection, as required by national and local standards and to the equivalent of Class P1 as defined within BS 5839-1 : 2017. The system will be installed by a national accreditation body approved installer and will also meet the requirements of statutory national and local authorities having jurisdiction, and the client's insurers.

11. Suppressing fires

Suppression systems in use

There is a built-in fire water tank which feeds a High Hazard Category Sprinkler System for the Barn building. This tank is adjoining the building on the northwest elevation.

The Barn Sprinkler System will activate automatically when the temperature reaches 68 degrees Celsius. The sprinkler system is zoned so each sprinkler head can operate independently.

The sprinkler fire water tank will only serve the sprinkler system. The water storage will supply the sprinkler for 90 minutes. The tank will have a useable capacity of 513m³ and will be an approximate size of 9.17m diameter and 8.43m high.

Upon final completion commissioning of the fire sprinkler system, the Main Contractor will include for full instructions and full operating, maintenance and testing manuals. The system will be tested and maintained in accordance with these manuals.

There is a foam/water fire inlet system for fire suppression in the fuel store building and also the waste oil store building (see drawing 1553).

This foam/water solution is a deluge system operated by the attending fire brigade.

The waste oil and fuel stores are constructed with integral bunding which will contain the water/foam solution.

After any fire, the low expansion foam will be contained within the bunds and be safely drained for disposal off site.

Within the Barn there will be portable fire extinguishers with the extinguishers placed next to all fire escape doors.

There will also be portable fire extinguishers provided within the facility, offices, plant room and other areas of the Waste Management Centre (see Appendix 7).

There are also two fire water hydrants within the yard area of the site (see plan 1553) which can be used by the Fire Service to extinguish fires on the yard area or to fight a fire within the Barn. This would be in addition to the water available via the sprinkler system within the Barn.

The hydrant flow rate will be 750 litres/min.

Certification for the systems

Blandford Waste Management facility will be provided with a property protection standard sprinkler system either designed in accordance with BS EN 12845 (Fixed firefighting — systems Automatic sprinkler systems — Design, installation and maintenance) and TB 234. The sprinkler system is to be hydraulically designed based on the requirements of BS EN 12845 including TB234: Protection of High Hazard Storage. All testing and commissioning will comply with BS EN 12845 and issue a LPS 1048 certificate. The Main installation Contractor will conduct at least two on-site training sessions for the client's personnel on the operation and control of the sprinkler systems and water supplies. All valves will be monitored with signals taken from the site fire alarm system.

The design of the sprinkler system is detailed in Appendix 6.

Foam inlets shall be installed in accordance with BS 5306-1.

The hydrant system will include underground hydrant valves complying fully to BS 750, BS EN 1074-2 and EN 14339. The valve shall be Type 2 manufactured from corrosion resistant material with universal multi-flange inlet for compatibility to most standard mating flanges and 65mm BSRT male threaded outlet for use with 65mm BSRT inlet standpipes.

12. Firefighting techniques

Active firefighting

Different areas of the site will need different firefighting techniques. The site is segregated into different areas – the public HRC, the yard area and The Barn.

There is a shared quarantine area for all these different areas and this quarantine area can be used to move potentially combustible materials away from a fire and so reduce the

probability of a fire spreading to adjacent waste storage areas / containers or bays. Alternatively, it may be used to remove burning material away from other combustible materials so that the fire can be extinguished.

Due to the design of the site and the management techniques to prevent a fire spreading it is not envisaged that a fire would involve all areas of the site at the same time.

The site has been designed to allow for active firefighting. This will help allow a fire to be extinguished within 4 hours. The site has been designed to give safe and fast access for the Fire Service (see Drawing 6003 Appendix 1). There are areas for Fire Brigade parking on two sides of the WTS Barn.

Staff have been trained to know what to do in the event of a fire and will coordinate with the Fire Service and there will be plant operators who are available on site or will attend out of hours to assist the Fire Service to fight a fire during operating hours and when the site is closed.

The resources we have for active firefighting include:

- plant we can use to move waste around the site, for example our plant on site will include a loading shovel, 360 excavator, forklift and a service vehicle for moving containers/skips
- staff – staff are trained in what they need to do should there be a fire.
- available water supply – fire hydrants and an on-site water tank to supply the fire suppression system within the WTS Barn
- finances- the permit holder has sufficient finances to provide the above resources and to ensure that fire clean up takes place after a fire.

We may use a variety of firefighting techniques together or separately to extinguish a fire, depending upon the nature of the fire, the location of the fire and depending upon the instructions of the Fire Service. These include:

- applying water to cool unburned material and other hazards
- separating unburned material from the fire using heavy plant
- separating burning material from the fire to quench it with hoses
- using fire extinguishers, fire hoses or fire suppression sprinklers and drench systems.

13. Water supplies

Available water supply

As discussed, the sprinkler system for the Barn has its own water supply from the water tank on site. This tank has been sized to supply the sprinkler system for 90mins.

There will also be two fire hydrants on site. These can be used by the Fire Service to extinguisher fires on site.

The hydrants will each have a flow rate 750litres/min.

Calculation for required water supply

The maximum stockpile on site will be 312m³. EA Fire Guidance requires us to consider the worst-case scenario, which would be the largest waste pile catching fire. The water supply required would therefore be :

Maximum pile volume in cubic metres	Water supply needed in litres per minute	Overall water supply needed over 3 hours in litres	Total water needed to be available on site in litres
312m ³	Max Pile volume 312m ³ x 6.67 = 2081.04 litres	Water supply per minute 2081.04 x 180 = 374,587.2 litres	374,587 litres (375m ³) needed

The sprinkler system has a tank capacity of 513m³

The hydrants will each supply an additional 750 litres per min.

It should be noted that this site is taking a precautionary approach as not only will the hydrant system supply sufficient water as calculated above, but the fire suppression and foam systems will provide additional fire suppression water and foam in key areas of the site.

14. Managing fire water

Containing the run-off from fire water

In order to protect ground water features the site is constructed so that there are impermeable surfaces on the yard areas and also within the Barn as below :

Containment and Runoff

Zone	Surface option	Discharge / treatment Options during normal operations	Discharge during fire event
Public turning/stopping area	- Sealed / non-porous	- Via pipe to SuDs system with penstock cut off before final outfall	- via pipe to SuDs system with penstock cut off before final outfall
Waste Outside yard area	- Concrete	- Via Oil + silt separator(proprietary units) to SuDs system with penstock cut off before final outfall	- penstock within yard will cut off usual discharge and fire water will be diverted to underground tank. The penstock will be automatic, in the form of a Flapstopper Valve. This will be linked to the fire alarm and will automatically shut down in the event of it being triggered. However, the Flapstopper Valve will also have a manual override, which can be triggered in the event of a spillage.
WMC buildings - roof WMC Parking	- Roofing - Sealed parking tarmac	- Roof to SuDs system with penstock cut off before final outfall	- Via pipe to SuDs system with penstock cut off before final outfall
		- Via pipe to SuDs system with penstock cut off before final outfall	-Via pipe to SuDs system with penstock cut off before final outfall
Site access road	- Sealed access road	- Via pipe to SuDs system with penstock cut off before final outfall	-Via pipe to SuDs system with penstock cut off before final outfall
Transfer Barn	- Concrete	Flows to loading bay and then to Underground tank	Underground tank

The proposal for the storm drainage is as, therefore, as follows:

Open yard area: to drain via yard gullies to a proprietary vortex separator then a proprietary down flow filter, then via an engineered soil trench system, then to basin 1 (upstream of 3 basins). Flow will continue through a combination of 2 other basins/swales

and filter drains before discharging to the existing highway filter drain which is an infiltration trench extending to the Salisbury Road roundabout some 700m east.

The open yard area gully chamber will have a penstock to close the stormwater outlet in the event of a fire and flows will then discharge at higher level to the sealed fire suppression water tank, which will be emptied by tanker. The penstock will be automatic, in the form of a Flapstopper Valve. This will be linked to the fire alarm and will automatically shut down in the event of it being triggered. However, the Flapstopper Valve will also have a manual override, which can be triggered in the event of a spillage.

Other areas: to drain via gullies to proprietary vortex separators then to basin 3.

Barn: The Barn is a sealed system, with any fire water discharge to the contained loading bay and then on to the sealed fire suppression water tank.

As the largest stockpile will be 312m³ and 200litres a minute is needed to fight a 312m³ stockpile for 3 hours, a total of 375m³ water is needed to fight the fire. The proposed design capacity for the fire wastewater tank is 550m³. The additional capacity is to allow for any cleaning water that might get into the tank. The tank will have an alarm that activates when this additional capacity is at 5% to allow emptying and so maintain the capacity in the event of a fire.

All SuDs basins will have impermeable liners (bentonite clay or HDPE/butyl) to prevent pollution infiltration prior to discharge.

A penstock will be provided at the final exit to the site to shut the entire storm system in the event of a pollution/fire event.

A hydrogeological risk assessment has been undertaken for the proposal and the conclusion of that risk assessment is that, with this drainage system, the proposed development will not pose a risk to the aquifer and the groundwater abstractions.

See Drainage Plans 70076888-WSP-00-XX-DR-C-206 in Appendix 1.

15. During and after an incident

Dealing with issues during a fire

In the event of a minor fire that can be dealt with using on site extinguishers this will be undertaken by site staff BUT ONLY IF CONSIDERED TO BE SAFE TO DO SO. After the fire has been extinguished then the site manager will investigate the causes of the fire and issue instructions to prevent a recurrence. If the fire is not brought under control within 5 minutes or it is spreading, then staff will call 999 immediately.

If possible, we will move the burning or smouldering material to a suitable quarantine area and spread it out to aid firefighting.

If safe to do so, we will assess the possibility of a fire spreading and move threatened wastes to the quarantine area, ensuring that the Fire Service will still be able to access the fire.

We will move skips and other combustible wastes away from the fire if possible.

For a larger fire even if the site staff attempt to extinguish it or start to move the material to a quarantine area the Fire Service and EA will be called immediately. The key action in this scenario is to prevent the spreading of fire whilst maintain the safety of site operatives.

The management will close the site to incoming waste, and we will inform our Contract waste clients and regular customers to divert to one of our other sites until the incident is over and the site is able to reopen.

Notifying residents and business

In the event of smoke being generated by a fire the wind direction will be assessed and contact made with any potentially affected sensitive receptors downwind to advise them to keep doors and windows closed.

Nearby businesses will be called or visited by staff. Local residential properties will be visited by staff.

Contact List (this list may not be current and comprehensive, and staff visits to premises may be required in addition to phone calls)

Receptor	Tel No
Sunrise Business Park – to the West	
Environment Agency	0370 850 6506
Eurocell	03330323100
Crazy Monsters Soft Play	01258 456688
Newglaze Windows	01258 483535
MPH Plumbing	01258451175
Blandford Tyre & Battery	01258 787521
Sovereign Housing Association	0300 1113600
J&Bs Plumbing and Heating	01258 443220
Dorset Autospares	01258 454511
Blandford Office Furniture	01258 450006
Surplus Trade Supplies	01258 457000
The College Partnership	01258 457091
Hardy Carpets and Beds	01258 459959

Nicholls Motor Company	07903010812
Trimetals	01258 459441
Sunrise Service and MOT Centre	01258 459798
Forum Car Sales	07920292342
A Good Place	01258 577570
Alison Moore Counselling	01258 577570
Woodland Dairy	0845 4679894
Dorset Wet Rooms	07956732118
Country Image	01258 454821
To the South	
Lidl	08009777766
Toolstation	03303333303
Weldmar Hospice Charity Outlet	01258 488481
Screwfix	03330112112
Astral Couriers	01258 454821
Sew Jessalli	01258 268541
Ingredients Media	07526733323
The Loft Barbershop	07540999893
Titan pro	01258 489161
Fireline	0800 096 6761
Motor Parts Direct	01258 444960
Dulux Decorator centre	01258 458203
To the North East	
Agri Comm Ltd	07427509583
Residential properties	
Attend in person	

When the Fire Service arrives, they will take over control and direct staff to use plant as required.

Staff will assist wherever possible but must maintain a safe distance from the fire and only work under the instruction of the Fire Service.

For a fire when the site is closed the Fire Box at the gates will contain contact details for the site management. The nominated manager will attend the scene and assist the Fire

Service where possible and ensure that the above list of receptors is contacted as required.

Clearing and decontamination after a fire and making the site operational after a fire

An assessment will be made, by the site management, of the effects of the fire on infrastructure and the pollution risks from the site. If water or foam has been used to fight the fire, the manager will arrange for the removal of contaminated water/foam to a suitably permitted facility.

Arrangements will be made for solid wastes that need to be moved for off-site disposal.

If during the fire waste material containing POPs have been burnt, we will ensure that our clean-up operations take the presence of POPs into account. If any POPs waste is involved in a fire, all residues from that fire which may contain POPs will be treated in line with the POPs Regulations.

If there is no damage to the site infrastructure the site will re-open in consultation with the Environment Agency.

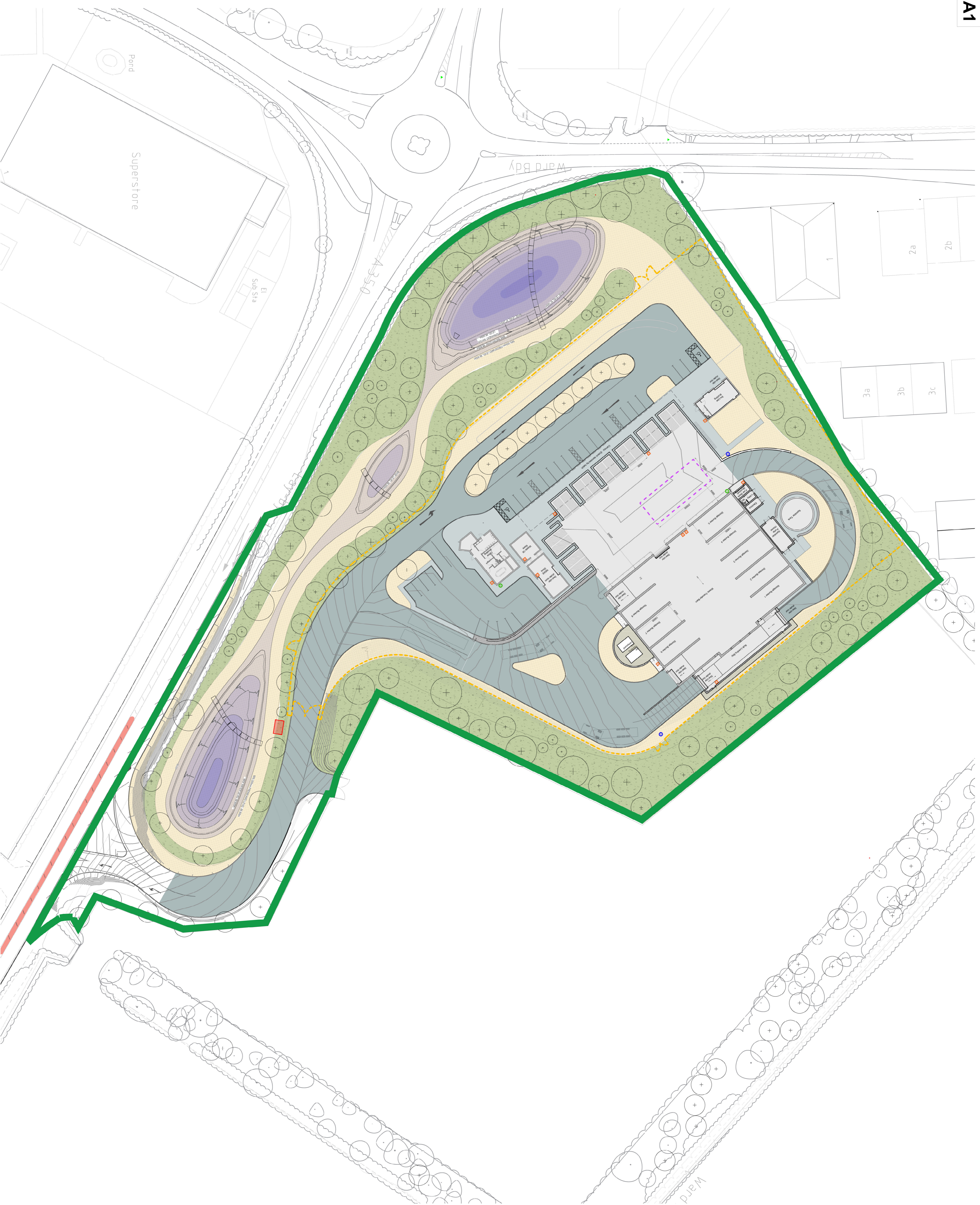
Where works are needed to make repairs, the site will remain closed until the pollution control measures are all repaired.

A thorough investigation shall be conducted as to the cause of the fire and appropriate measures put in place to ensure that the risk of further fires is reduced. The incident report will include the following as a minimum:-

- causes of the Fire
- assessment of damage caused by the fire
- details of fire related waste disposal, including transfer/consignment notes
- assessment of any potential contamination
- details of the removal and disposal of contaminated firewater/foam, including transfer/consignment notes
- lessons learned and improvements to reduce the risk of any future fires at the site and to reduce the impact of any fires in the future
- proposed amendments to the Fire Prevention Plan
- completion of Site Condition Report if needed.

Appendix 1 Plans

- General layout plans 1553
- CEC/BWMC/001
- Drainage 70076888-WSP-DR-C-206
- Drawing No 6003

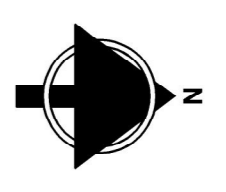


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Ordnance Survey 10 000039063



Notes:

- Key**
- Proposed Native Planting
 - Proposed Wildflower Meadow,
 - Macadam area vehicular
 - Macadam area pedestrian
 - Concrete surface
 - Suds basin
 - Gravel
 - Permit Application Boundary
 - Security Fence, 2m min. height
 - Quarantine area 180m³ capacity
 - Location of fire box (not actual size)
 - Location of fire hydrant (not actual size)
 - Location of foam inlet (not actual size)
 - Location of spill kits (not actual size)
 - All areas not showing hatched (excluding building) are areas of soft landscape

Issue	Revision Description	Date	Drawn	Checked
P2	Total information added from drawing 1551	09/02/2024	KM	CS
P1	Issued for information	09/02/2024	KM	CS

Dorset Council ASSETS & PROPERTY

Assets and Property
County Hall, Colinton Park, Dorchester, Dorset DT1 1XJ
Telephone: 01305 225200

www.dorsetcouncil.gov.uk/assetsandproperty

Client
Dorset Council - waste team

Job Title
Proposed Waste Transfer Building & Household Recycling Centre

Drawing Title
EA Permit - Whole Site Plan Context Plan

Site Number 4522 **Drawing No.** 1 553 **Status Code** S2

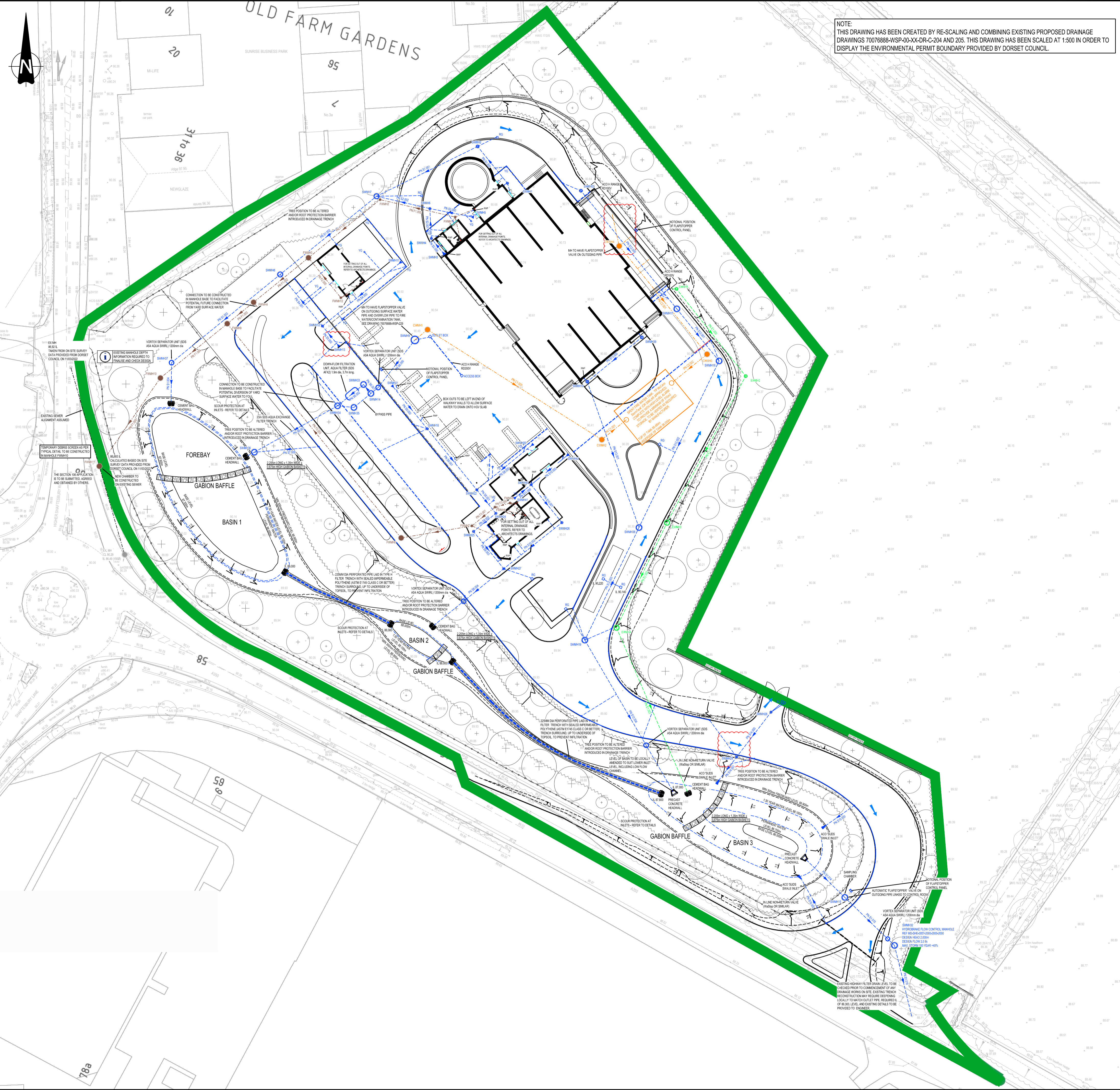
891192 - File Name
008862_D02_ZZ_DR_A_1553_EAperm_WholeSitePlan_ContextPlan_P2

DRAINAGE KEY:

- PROPOSED SURFACE WATER DRAIN AND MANHOLE OR INSPECTION CHAMBER
- PROPOSED FOUL WATER DRAIN AND MANHOLE OR INSPECTION CHAMBER
- PROPOSED CONTAMINATED FIRE WATER DRAIN AND MANHOLE OR INSPECTION CHAMBER
- PROPOSED SURFACE WATER EXCEEDANCE DRAIN AND MANHOLE OR INSPECTION CHAMBER
- PROPOSED THRESHOLD DRAIN CHANNEL (TO SUIT DOOR THRESHOLD AND SURFACING DETAILS)
- PROPOSED ACO QMAXLINEAR CHANNEL F900 CLASS
- PROPOSED COMBINED KERB DRAIN D400 CLASS
- PROPOSED HIGHWAY GULLY WITH 150 DIA OUTLETS
- PROPOSED YARD GULLY WITH 150 DIA OUTLETS
- PROPOSED RODDING EYE
- OVERLAND FLOOD FLOW ROUTING
- ENVIRONMENTAL PERMIT BOUNDARY

DRAINAGE NOTES:

- ALL DRAINAGE WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS AND CODES OF PRACTICE.
- UNLESS NOTED OTHERWISE: ON-SITE DRAINAGE WORKS TO BE IN ACCORDANCE WITH 'DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL & SURFACE WATER SEWERS', AND THE 'CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY', 7TH EDITION. OFF-SITE WORKS TO HIGHWAYS ENGLAND, MCHW, SPECIFICATION FOR HIGHWAYS & ASSOCIATED APPENDICES.
- THE MINIMUM SIZE OF SEWER WHERE GUIDE BARS, SAFETY CHAINS, OR OTHER SAFETY DEVICES ARE REQUIRED IN MH'S ARE PIPES WITH A DIAMETER OF 375mm OR GREATER.
- ALL INTERNAL BELOW GROUND FOUL DRAINAGE TO BE 100 DIA MIN LAID AT 1:40 OR FLATTER.
- PRIOR TO CONSTRUCTION, CONFIRM THAT RWP AND FOUL FIXTURES HAVE 1:40 OR FLATTER FALL TO EXTERNAL DRAINAGE SYSTEMS.
- ALL MAIN DRAINAGE INFRASTRUCTURE DESIGNED TO HAVE 1.2M MINIMUM COVER (IN TRAFFICKED AREAS) UNLESS NOTED OTHERWISE. DRAINAGE WITH LESS THAN 1.2m COVER TO BE PROTECTED WITH CONCRETE ENCASEMENT.
- CKD'S TO BE CONTRACTOR DESIGN ELEMENTS TO ACCOMMODATE 65mm/hr RAINFALL INTENSITY FOR 0.75m CHANNEL FLOW WIDTH



NOTE: THIS DRAWING HAS BEEN CREATED BY RE-SCALING AND COMBINING EXISTING PROPOSED DRAINAGE DRAWINGS 70076888-WSP-00-XX-DR-C-204 AND 205. THIS DRAWING HAS BEEN SCALED AT 1:500 IN ORDER TO DISPLAY THE ENVIRONMENTAL PERMIT BOUNDARY PROVIDED BY DORSET COUNCIL.

DO NOT SCALE

- NOTES:**
- DO NOT SCALE THIS DRAWING FOR CONSTRUCTION PURPOSES.
 - CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS, SPECIFICATIONS AND REPORTS.
 - SURVEY INFORMATION SHOWN IS TAKEN FROM GEOMATIC SURVEYORS TOPOGRAPHICAL SURVEY, DRAWING NUMBER 544L01B DATED MARCH 2018. WSP TAKE NO RESPONSIBILITY FOR THE CONTENT OR ACCURACY.
 - CONTRACTOR TO LOCATE AND IDENTIFY ALL EXISTING SERVICES WITHIN THE WORKS AREA. THESE SERVICES ARE TO BE PROTECTED DURING THE COURSE OF THE WORKS AND ADJUSTED AS REQUIRED TO SUIT THE PROPOSED DEVELOPMENT IN COMPLIANCE WITH THE RELEVANT STATUTORY AUTHORITY.
 - NEW SERVICES ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITY AND LOCAL HIGHWAY AUTHORITY WHERE APPLICABLE.
 - ALL LEVELS SHOWN ARE TO ORDNANCE DATUM.

HEALTH AND SAFETY INFORMATION

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

CONSTRUCTION PHASE

- PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR FULL DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.
- IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.
- RESIDUAL HAZARDS ARE REFERENCED ON THE DRAWING INCLUDED IN THE HAZARD RISK REGISTER.
- THE CONTRACTOR SHALL REFER TO STATUTORY UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY AND CONFIRM THE LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

- PLEASE REFER TO THE HAZARD RISK REGISTER AND THE MAINTENANCE AND REPAIR STRATEGY FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE HEALTH AND SAFETY FILES PRODUCED AND HANDED OVER ON COMPLETION OF THIS PROJECT.
- RESIDUAL HAZARDS ARE REFERENCED ON THE DRAWING INCLUDED IN THE HAZARD RISK REGISTER.

PO1	08/02/2024	MT	FIRST ISSUE	CU	CU
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: **D1- FOR COSTING**

3rd Floor, New North Road, Exeter, EX4 4GL, UK
T+ 44 (0) 1392 229 700, F+ 44 (0) 1392 229 701
wsp.com

CLIENT: **DORSET COUNCIL**

ARCHITECT:

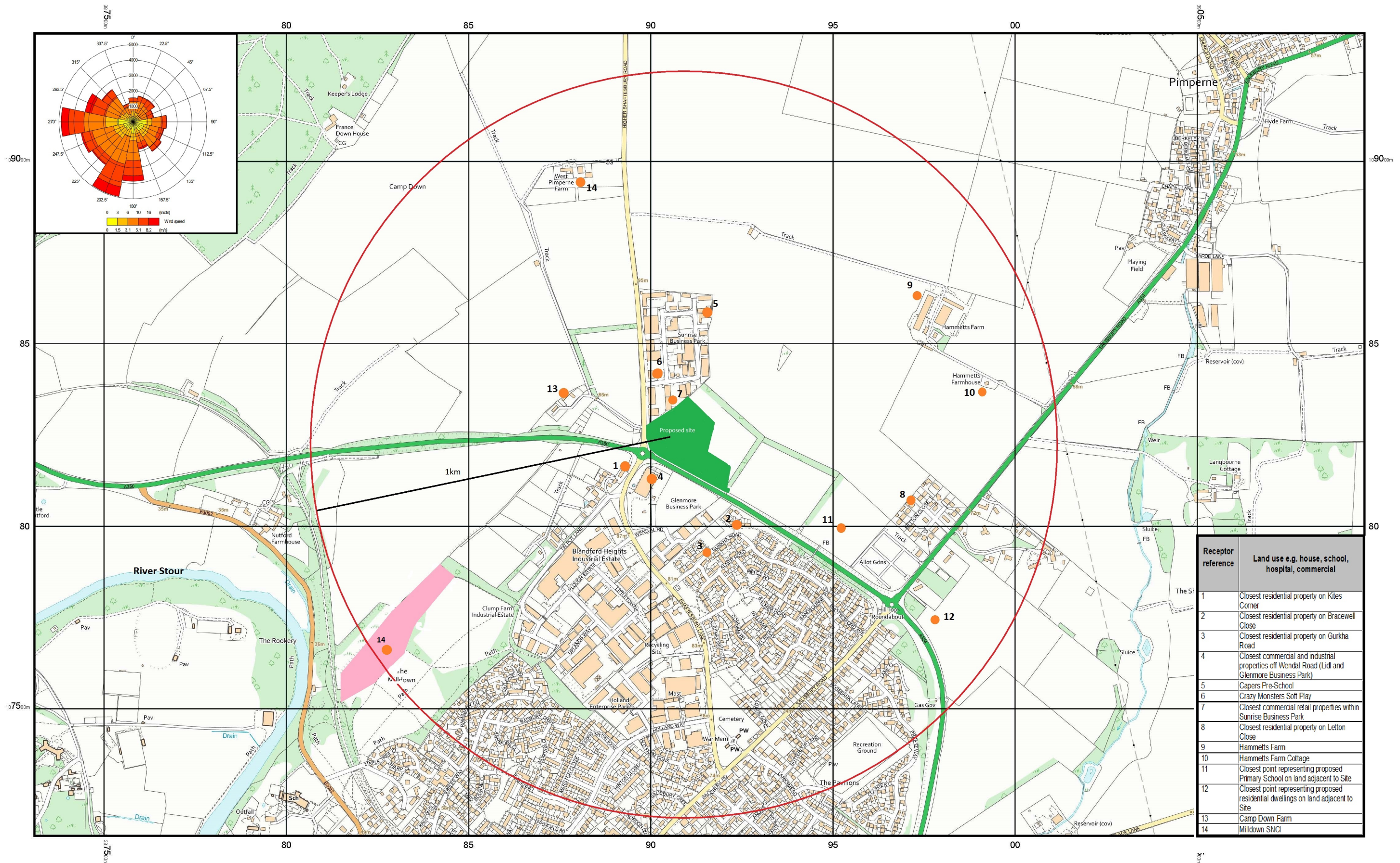
SITE/PROJECT: **BLANDFORD FORUM WASTE MANAGEMENT CENTRE**

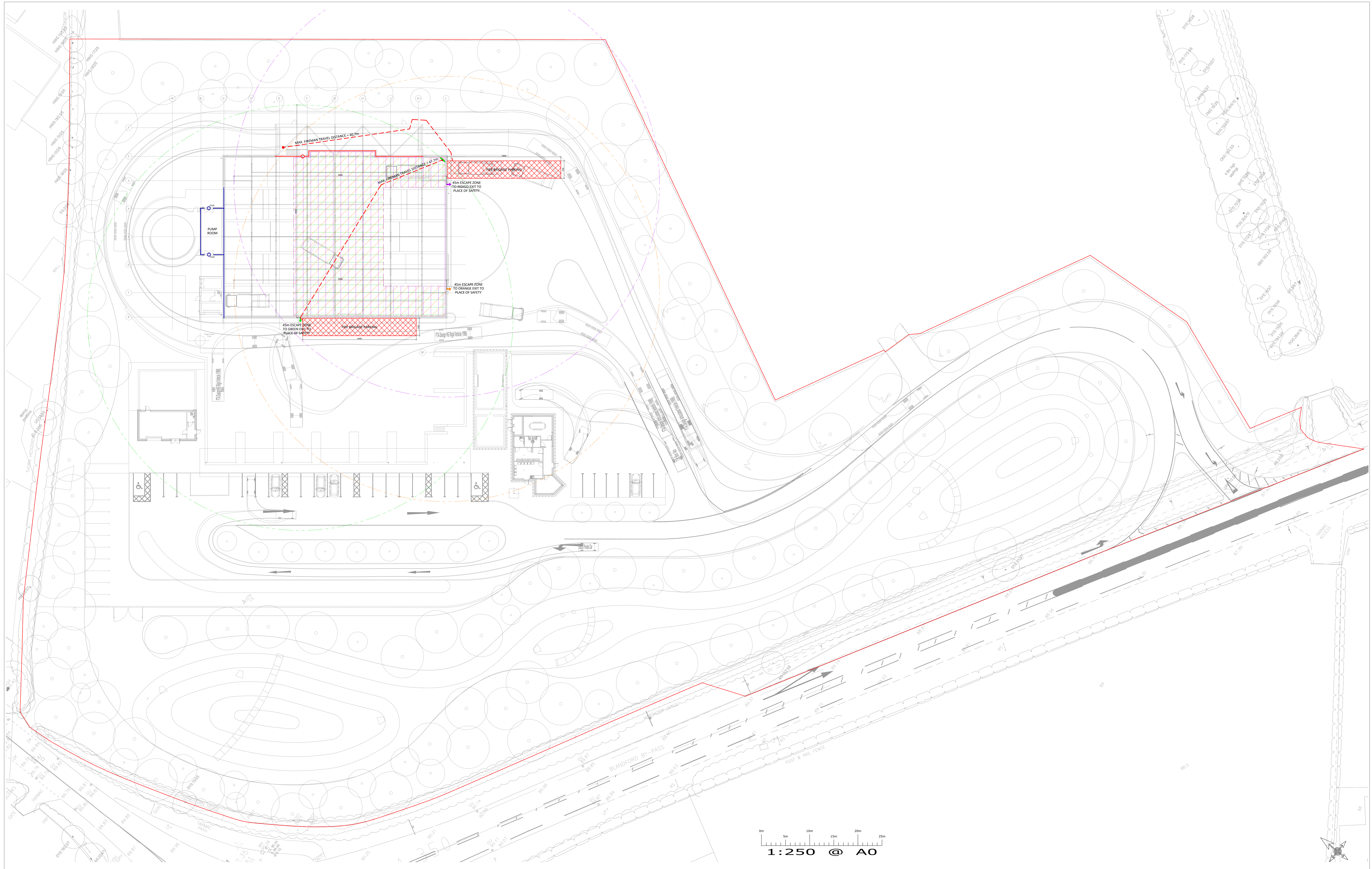
TITLE: **PROPOSED DRAINAGE OVERALL PLAN WITH ENVIRONMENTAL PERMIT BOUNDARY**

SCALE @ A1:	1:500	CHECKED:	CU	APPROVED:	CU
PROJECT NO:	70076888	DESIGNED:	MT	DRAWN:	MT
DRAWING NO:	70076888-WSP-00-XX-DR-C-206	DATE:	February 24	REV:	P01

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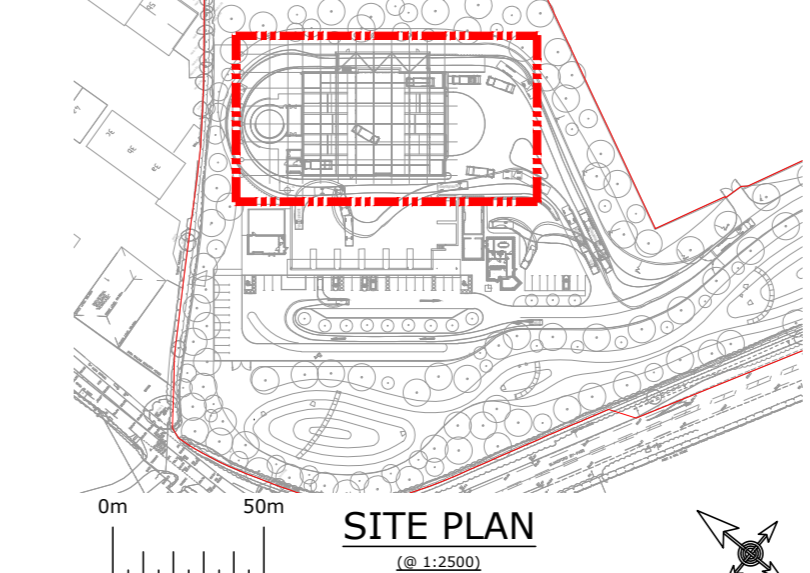
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- Notes
1. THIS IS A DESIGN INFORMATION ISSUE DRAWING AND SHALL NOT BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES
 2. DO NOT SCALE OFF THIS DRAWING. ALWAYS WORK TO NOTED DIMENSIONS.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMPLETING SHOP DRAWINGS AND SETTING OUT THE WORK
 4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION AND ASSOCIATED EQUIPMENT SCHEDULES

LEGEND			
	FR60		FD120 DOOR
	FR60S DOOR		FD120S DOOR
	60/60/60 FR		120/120/120 FR



Dorset Council

Building Services & Fire Engineering Consultants
 Osborn Associates Ltd
 South Barn, Crookham Park
 Crookham Hill, Enderbridge
 Kent, TN8 6SR, England
 TEL: +44 (0)1773 860600
 www.osbornassociates.com

BLANDFORD WMC FIRE STRATEGY

FIRE STRATEGY MEANS OF ESCAPE PROFILES

REVISION				
NO	DATE	DESCRIPTION	CHKD	APRD
P04	14.02.24	ISSUED FOR PLANNING	DB	SD
D2	07.04.22	ISSUED FOR COSTING	DH	SD
D1	01.03.22	ISSUED FOR COSTING	DH	SD
P01	19.05.21	ISSUED FOR INFORMATION	DH	SD

REVISION			
Scale	CAD Ref	Date	
DH	DH/SD	MAY.21	

005882 OAL V2 XX DR 0 6003 S2 P04
 SUITABLE FOR PLANNING

Appendix 2 Method Statement Hot Cutting (hot work)



METHOD STATEMENT
Hot cutting (hot work)

Client name:	W & S Recycling	Address of project:	Blandford WMC
Quote/job number:		Client contact:	
Date project starts:		Expected finish date:	
Scope of work:	Hot cutting, Welding, Fabricating (hot work)	Drawing reference:	
Nature of the site:	Waste Management Centre		
Site security/protection details:	(e.g. infrared CCTV, fire watch, etc.)		
Emergency procedures:	<ul style="list-style-type: none"> • A fire watcher to be placed in charge whilst the “hot-work” operations are in progress and to patrol in or about any structure of the building close to the hot-work operations. • All staff to be informed of the action to be taken in the event of a fire and on how to activate any fire alarm system. 		
Site manager(s):		Names, roles and qualifications of staff completing work:	
Tools and equipment: (list)		PPE and safety equipment: (list)	
Work sequence:	<ol style="list-style-type: none"> 1. Only trained, competent staff to carry out hot cutting work. (Persons carrying out hot work are prohibited from wearing jewellery e.g. rings, metal watch straps etc). 2. A competent supervisor to take full control of the hot cutting work. 3. Cutting torches, gas bottle gauges etc. to be checked to ensure they are in a safe working condition, e.g. with no leaks. 4. Gas bottles to be removed from site at the end of each shift or stored in a suitable, secure and well ventilated storage area. 		



METHOD STATEMENT Hot cutting (hot work)

5. Prior to work starting check to be made with the site manager to identify whether or not there is a permit-to-work system in place for hot cutting. Where a permit is required, action to be taken to obtain one.
6. Where a permit-to-work exists, the contents to be briefed to all staff involved in the work and the conditions of the permit to be followed at all times.
7. A risk assessment to be conducted for the work operations and the contents to be brought to the attention of all staff.
8. All combustible material of a portable nature to be removed from the area of operations and floors swept clean of combustible materials. Flammable substances such as paints and adhesives to be removed from the hot work area.
9. All combustible material remaining in the vicinity to be either thoroughly drenched with water, covered with damp sand or non-combustible sheets, whichever is the most suitable.
10. Combustible floors, walls, ceilings to be protected by either wetting down and covering with damp sand or covered or screened by sheets of non-combustible material, whichever is the most suitable.
11. Where work is above floor level, non-combustible curtains or sheets to be suspended beneath the work to collect sparks.
12. All gaps in walls and floors through which sparks could pass to be covered with sheets of non-combustible materials.
13. If a fire point is not in the immediate vicinity, then portable fire extinguishing equipment to be made available at the site of operations.
14. Smoke/heat detectors that could be affected by the hot work operation must be isolated by clients, engineers or electricians. When the work has been completed the smoke/heat detector to be put back into operation.
15. Any pipes affected to be assessed for hazardous contents or residues and to be isolated and vented. Precautions to be taken to prevent the release of sparks or other hazardous emissions from open ends of pipe work. Consideration to be given to the potential for conduction of heat.
16. On completion or suspension of the work the supervisor to check that there are no signs of smoldering materials etc. The supervisor to inspect the worksite one hour after work has ceased.
17. On completion or cessation of the hot work, the supervisor to confirm that the hot work area is safe and free from any source of ignition or signs of any smoldering materials, arrange for the work area to be tidied up and for the removal/replacement any fire fighting equipment. If a permit was issued, the supervisor to sign it off and return it to the permit issuer.



METHOD STATEMENT
Hot cutting (hot work)

Risk assessment documentation relevant to project:	Risk assessments for procedures carried out, Safe use of oxy-acetylene/propane welding and cutting equipment. Safe use of electric welding equipment. Transport of gas cylinders in vehicles. General machinery maintenance. COSSH assessments.		
Method statement prepared by:		Signature:	
Method statement reviewed by:		Signature:	
Method statement and risk assessment(s) agreed by:		Signature:	
Comments:	The tasks carried out at this location to which this documentation applies will be for:		
Additional information:			

I HAVE READ AND UNDERSTOOD THE REQUIREMENTS OF THE ABOVE CONTROL MEASURES.

SIGNED:

SIGNED:

SIGNED:

SIGNED:

Appendix 3 OP04 Spillage Procedure

OP 04: SPILLAGE PROCEDURE

PURPOSE & SCOPE:

- It is an offence in law in England to cause or knowingly permit any poisonous, noxious or polluting matter or any solid waste matter to enter any controlled waters. Controlled waters include rivers, streams and groundwater and so precautions need to be taken to prevent spillage of hazardous materials occurring on site.
- This procedure defines the method to be used to deal with spillages of hazardous materials such as oil and chemicals both inside buildings & structures and outdoors. The procedure shall be used when a spill incident occurs. The procedure specifies the actions to be taken to contain and deal with any spill that does occur in order to minimise the risk of contamination of soils or waters.

APPLICABILITY:

Applies to the secondarily contained above-ground gas-oil storage tank on site and:

- storage of maintenance oils and fluids such as anti-freeze stored in 205-litre containers;
- storage of waste oil; and
- storage of hazardous household wastes held in the chemical stores.

DEFINITIONS:

Secondary containment: a passive containment system in the form of double walls on the bulk fuel tank, single and multi-drum spill pallets and kerbs to prevent overflow.

Absorptive materials: are used to soak up a spill of liquids and can include absorbent pads or pillows or 5-10kg bags of dry granular materials such as sand, vermiculite or proprietary products such as sawdust.

PROCEDURE:

1.0 Oil Inventory

- 1.1 Site shall prepare and document separate inventories of oil & hazardous chemicals that includes:
- a) identity and amounts of oils and hazardous chemicals in storage;
 - b) location and identification of the storage areas; and
 - c) type and capacity of secondary containment provided.

2.0 Assessment of Spill Potential and Environmental Impacts

- 2.1 Site shall assess the potential for spills and identify spill scenarios including worst case based on the inventory of oil & hazardous chemicals.
- 2.2 Site shall estimate the potential rate and volume of spill, direction of flow and receptor.
- 2.3 Site shall identify the environmental impacts from potential spill events.
- 2.4 Assessments shall be documented and periodically reviewed and updated where necessary.

3.0 Spill Prevention and Control Plan

- 3.1 Site shall prepare a Spill Prevention and Control Plan that will include:
- a) procedures and programmes to prevent a spill from occurring including preventive maintenance programmes, inspection schedules and training programmes;
 - b) location, design of secondary containment and maintenance programmes;
 - c) location and type of access points to drains located in the vicinity of oil & hazardous chemicals storage;

- d) assessment of the types and quantities of absorbent materials (e.g. numbers of bags, numbers of mats and locations) and spill kits (numbers and locations) that shall be provided on Site;
- e) assessment of the PPE requirements for personnel involved in responding to a spillage on Site;
- f) spill response and mitigation measures; and
- g) reporting responsibilities after a spill event.

4.0 Operating Practices

- 4.1 Storage tanks and drums shall be inspected regularly for signs of corrosion or leaks. Inspections shall be documented and available for review.
- 4.2 Storage tanks and drums shall be labelled to enable the easy identification of their contents.
- 4.3 Written operating procedures shall be prepared and kept updated for all loading, unloading and transfer operations involving oil & Hazardous materials to minimise the likelihood of a spill.
- 4.4 A regular inspection shall be carried out to ensure that there is a suitable stock of absorbent materials on Site. Inspections shall be documented and available for review.
- 4.5 Security systems shall be installed to prevent spills caused by vandalism

Procedure:

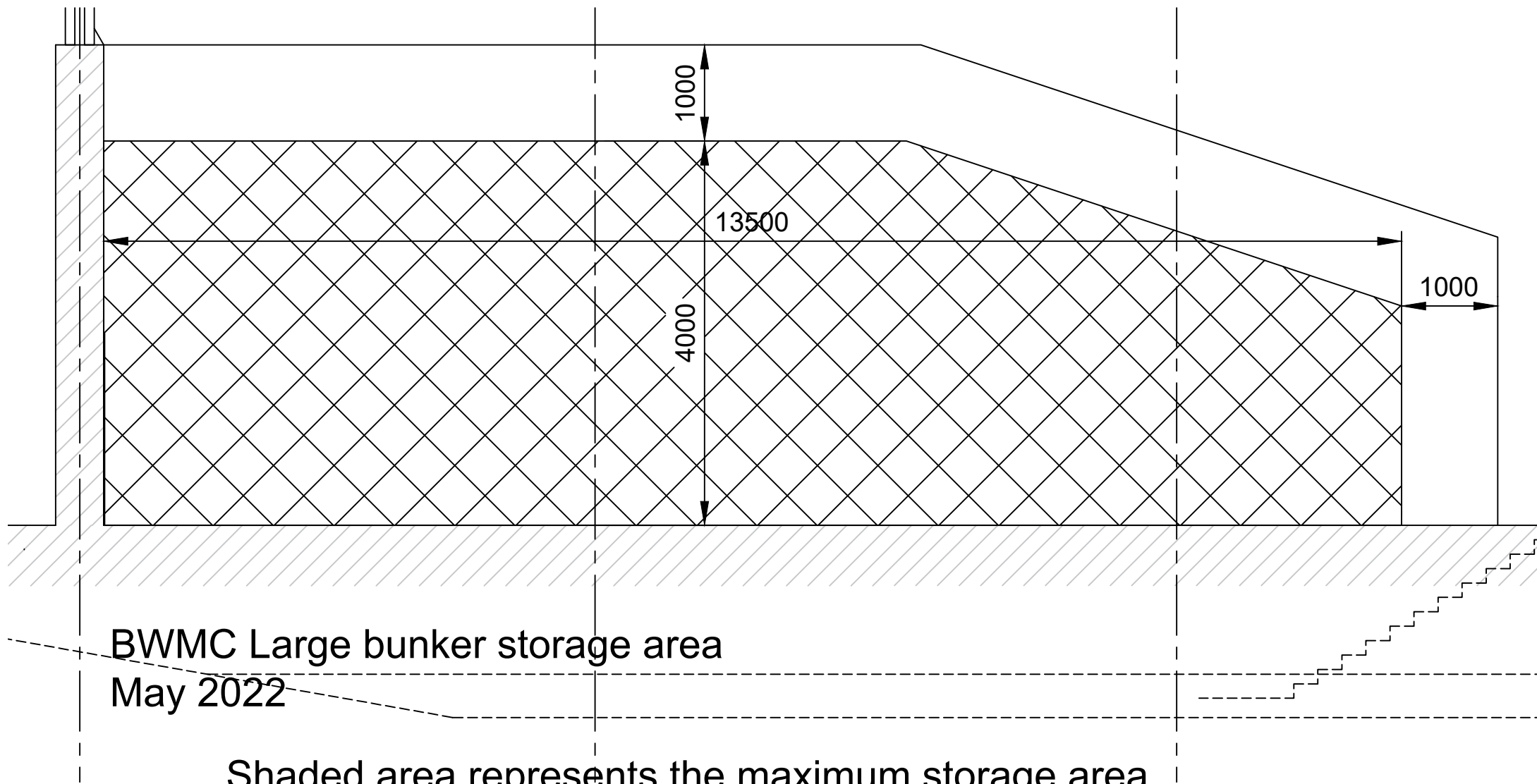
Actions in the Event of a Spillage

1. Identify the cause of the spillage and use any means available to prevent further spillage.
2. Surround the area of the spillage with absorbent material.
3. Cordon off the area to prevent the general public from entering the area.
4. Seal off any surface water drains to ensure that the spillage does not enter the system.
5. Once the cause and the spillage have been dealt with, soak up any remaining liquid with absorbent materials which should then be deposited into a container ready for disposal and once the Environment Agency has been informed about the incident.
6. Record the spillage in the Site Diary and notify Head Office.
7. Head Office shall instigate the Incident Response Procedure.
8. See waste oil procedure (MS039) in EMS Operations Manual
9. See major diesel spillage procedure (MS044) in EMS Operations Manual

Related Documents:

EP06 Internal Auditing and Inspection Procedure
OP03 Environmental Incident Procedure
MS034 Hazardous Waste Form
MS039 Waste Oil Procedure
MS044 Major Diesel Spillage Procedure

Appendix 4 Barn storage bay volume calculation



Shaded area represents the maximum storage area, allowing a 1m margin. The shaded area is 49.5m² and the width of the bunker is 6.3m giving a total of 311.85m³.

Appendix 5 Fire wall calculations

Project Blairford Forum Waste Management Centre				Status	
Date By Checked	18/10/2021 TR	Job no. 70076558	Section	Sheet no.	Rev
Rev	Date	Details			Tel
					Fax
Part Retaining walls - fire spread assessment					

REF OUTPUT

Determination of spread of fire between waste bays

The fire spread criteria is to be determined for the retaining structures between the skip bays.

The general arrangement is ...

PLAN

SECTION A-A

The general method of determining fire spread time will be to analyse the performance of the 300mm thick RC retaining wall in accordance with BS EN 1993-1-2:2005

Project			Status		
Date By Checked		Job no.	Section	Sheet no.	Rev
Rev	Date	Details			Tel
					Fax
Part					

REF	<p>Due to the thickness of fill material between the two RC slabs, heat transfer across the structure is not likely to govern the spread of fire. Therefore, the governing factor will be considered to be mechanical failure of the retaining structure (Criterion R in BS-EN 1992-1-2)</p> <p>Table 5.5 in BS-EN 1992-1-2 gives minimum dimensions for RC members for various fire resistance criteria</p> <p>The proposed RC slab is 300mm thick with 50mm cover (and provision lateral and transverse bars)</p> <p>\therefore Average axis of reinforcement = $50\text{mm} + \frac{10\text{mm} + 10\text{mm}}{2}$</p> <p style="text-align: center;">$= 60\text{mm}$</p> <p>\therefore $a = 60\text{mm}$ $b_{\text{min}} = 300\text{mm}$</p> <p>These dimensions satisfy the minimum dimensions for R120 fire criteria</p> <p>Table 5.5 has been used as directed by Paragraph 5.5.1 for tensile members.</p>	OUTPUT
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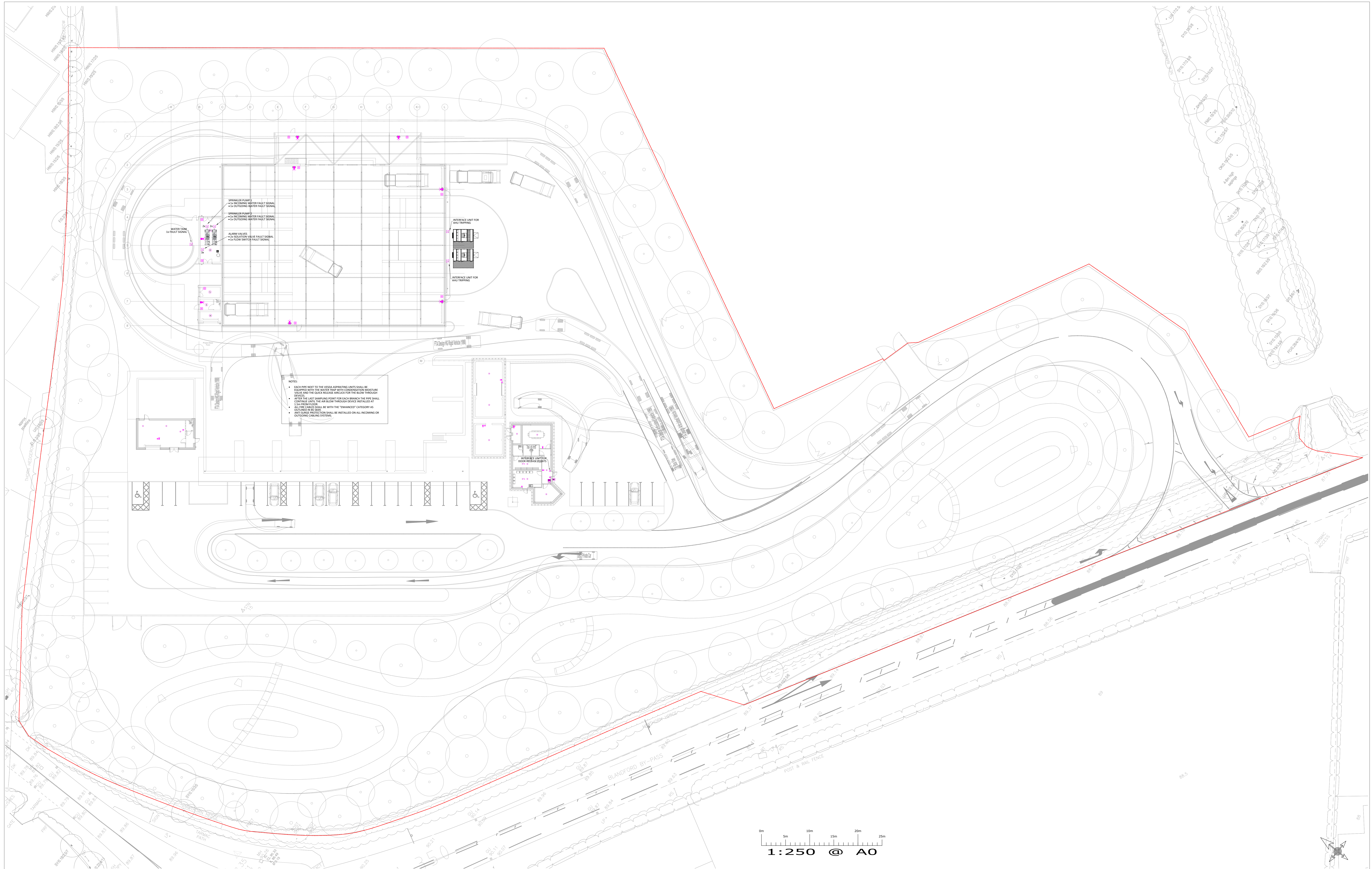
Project	Blandford Forum
Building	Main Barn Walls
Column	Internal and external walls

Standard fire resistance of column/walls calculated in accordance with BS EN 1992-1-2 clause 5.3.2(4) (Method A)

storey ht	4.5	m
b	500	mm
h	1000	mm
a	60	mm
f_{ck}	40	MPa
Bar dia	25	mm
N of bars	7	
f_{yk}	500	MPa
μ_{fi}	0.7	
A_c	500000	mm ²
b'	450	mm
α_{cc}	0.85	
f_{cd}	22.7	MPa
A_s	3436	
A_s/bh	0.007	
f_{yd}	435	MPa
ω	0.13	
$R_{\eta fi}$	25	minutes
R_a	48	minutes
R_l	26.4	minutes
R_b	40.5	minutes
R_n	12	minutes

R	183 minutes
----------	--------------------

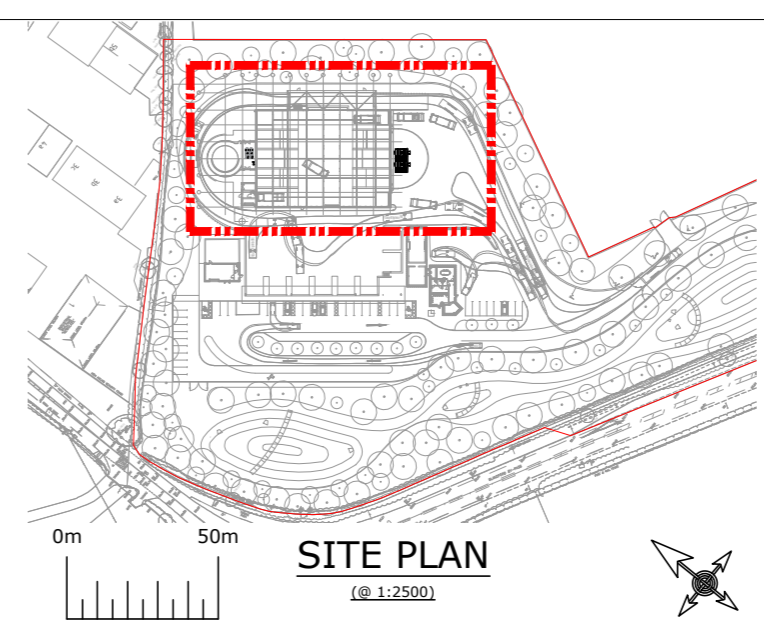
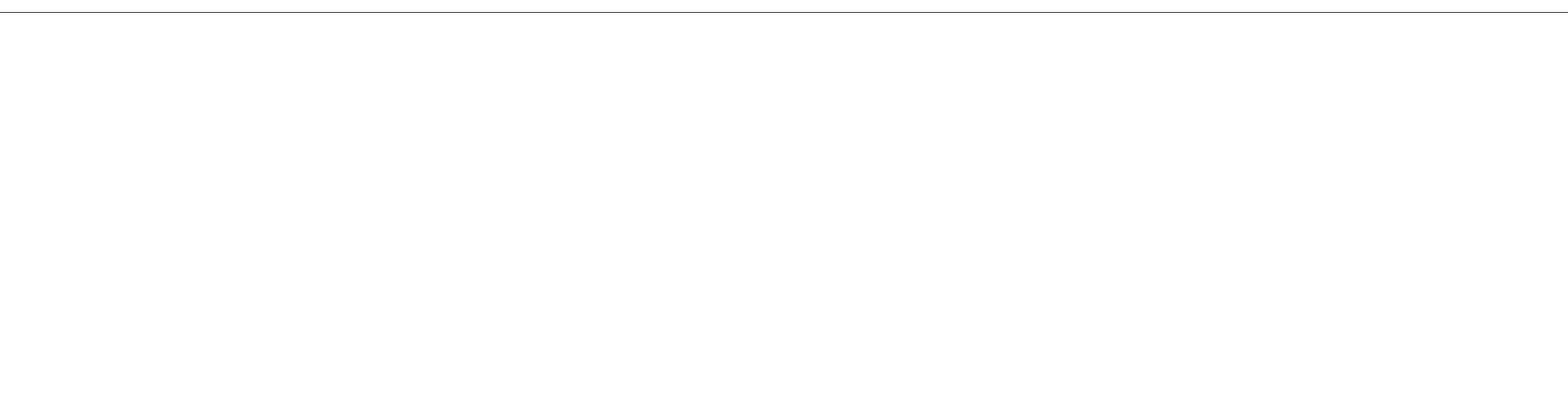
Appendix 6 Fire detection and Sprinkler system



- Notes
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 - ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMPLETING SHOP DRAWINGS AND SETTING OUT THE WORK
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION AND ASSOCIATED EQUIPMENT SCHEDULES

LEGEND

	ADDRESSABLE FIRE DETECTION & ALARM CONTROL PANEL (Isolator with key and Power Supply needed)		HEAT DETECTOR		MULTI-SPECTRUM TRIPLE INFRARED FLAME DETECTOR
	ADDRESSABLE REPEATER PANEL FOR THE SYSTEM (Isolator with key and power supply needed)		HEAT DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE		VESDA LASER ASPIRATING SMOKE DETECTOR PANEL (VDS Certificate, Interlocked to Fire Alarm Panel, (DA Isolator with Key & Power Supply from Distribution Board needed)
	POWER SUPPLY UNIT WITH 24V/20h BATTERY PACK		ELECTRONIC SOUNDER WITH FLASHING BEACON FOR INDOOR USE		VESDA AIR SAMPLING POINT (after installation)
	OPTICAL SMOKE DETECTOR		ELECTRONIC SOUNDER FOR OUTDOOR USE		VESDA TEE SAMPLING POINT FOR SAMPLING POINT INSTALLED ON CEILING (typical Ø23mm)
	OPTICAL SMOKE DETECTOR INSTALLED IN HORIZONTAL VIEW WITH LED FOR INDICATION ORIENTATION		MANUAL CALL POINT FOR INDOOR USE (not other - break glass - surface mounted)		VESDA TEE CLEANING POINT FOR CONDENSATION TRAP AND COMPRESSED AIR PURGE SYSTEM
	OPTICAL SMOKE DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE		INTERFACE UO UNIT		



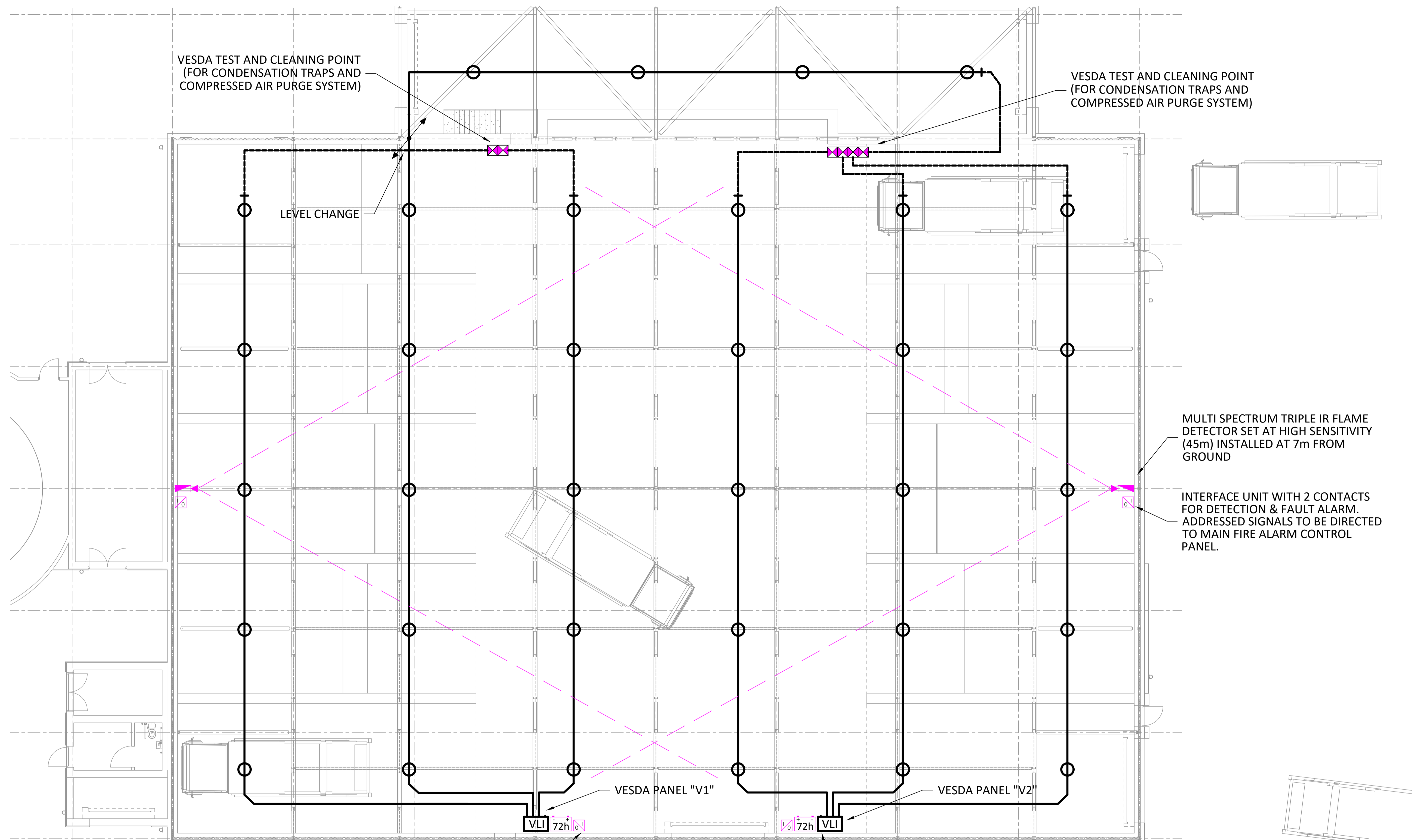
Dorset Council

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 www.osbornassociates.com

BLANDFORD WMC FIRE STRATEGY

FIRE DETECTION SYSTEM
WASTE TRANSFER FACILITY
GROUND LEVEL

Scale	1:250	Client	DH	Date	REV	DATE	DESCRIPTION	CHKD	APRD
Scale	1:250	Client	DH	Date	REV	DATE	DESCRIPTION	CHKD	APRD
Drawing	DH	Checked	DH/SD	Date					
005882 QAL ZZ 00 D O 5001				MAY.21					
SUITABLE FOR PLANNING								S2	P02



VESDA TEST AND CLEANING POINT
(FOR CONDENSATION TRAPS AND
COMPRESSED AIR PURGE SYSTEM)

VESDA TEST AND CLEANING POINT
(FOR CONDENSATION TRAPS AND
COMPRESSED AIR PURGE SYSTEM)

LEVEL CHANGE

MULTI SPECTRUM TRIPLE IR FLAME
DETECTOR SET AT HIGH SENSITIVITY
(45m) INSTALLED AT 7m FROM
GROUND

INTERFACE UNIT WITH 2 CONTACTS
FOR DETECTION & FAULT ALARM.
ADDRESSED SIGNALS TO BE DIRECTED
TO MAIN FIRE ALARM CONTROL
PANEL.

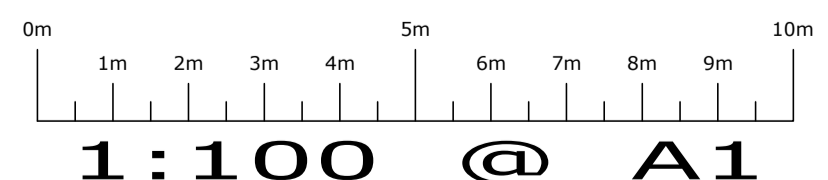
VESDA PANEL "V1"

VESDA PANEL "V2"

INTERFACE UNIT WITH 2 CONTACTS
FOR DETECTION & FAULT ALARM.
SIGNALS TO BE DIRECTED TO MAIN
FIRE ALARM CONTROL PANEL.

VESDA PANEL WITH
72h BATTERY BACKUP

- NOTES:**
- EACH PIPE NEXT TO THE VESDA ASPIRATING UNITS SHALL BE EQUIPPED WITH THE WATER TRAP WITH CONDENSATION MOISTURE VALVE AND THE QUICK RELEASE AIRCLICK FOR THE BLOW THROUGH DEVICES.
 - AFTER THE LAST SAMPLING POINT FOR EACH BRANCH THE PIPE SHALL CONTINUE UNTIL THE AIR BLOW THROUGH DEVICE INSTALLED AT 1.5m FROM FLOOR.
 - ALL FIRE CABLES SHALL BE WITH THE "ENHANCED" CATEGORY AS OUTLINED IN BS 5839.
 - ANTI SURGE PROTECTION SHALL BE INSTALLED ON ALL INCOMING OR OUTGOING CABLING SYSTEMS.



NOTES

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3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMPLETING SHOP DRAWINGS AND SETTING OUT THE WORK
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION AND ASSOCIATED EQUIPMENT SCHEDULES

LEGEND

	ADDRESSABLE FIRE DETECTION & ALARM CONTROL PANEL (Isolator with key and Power Supply needed)
	ADDRESSABLE REPEATER PANEL FOR THE SYSTEM REMOTE MONITORING (Isolator with key and power supply needed)
	POWER SUPPLY UNIT WITH 24/72h BATTERY PACK
	OPTICAL SMOKE DETECTOR
	OPTICAL SMOKE DETECTOR INSTALLED IN HORIZONTAL VOID WITH LED FOR INDICATION ON LOCATION
	OPTICAL SMOKE DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE
	HEAT DETECTOR
	HEAT DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE
	ELECTRONIC SOUNDER WITH FLASHING BEACON FOR INDOOR USE
	ELECTRONIC SOUNDER FOR INDOOR USE
	ELECTRONIC SOUNDER FOR OUTDOOR USE
	MANUAL CALL POINT FOR INDOOR USE (red color - break glass - surface mounted)
	INTERFACE I/O UNIT
	MULTI SPECTRUM TRIPLE INFRARED FLAME DETECTOR
	VESDA LASER ASPIRATING SMOKE DETECTOR PANEL (VLS Certified, interfaced to Fire Alarm Panel, 30A Isolator with key & Power Supply from Distribution Board needed)
	VESDA AIR SAMPLING POINT (ceiling installation)
	VESDA AIR SAMPLING PIPEWORK FOR SAMPLING POINT INSTALLED ON CEILING (typical Ø21mm)
	VESDA TEST CLEANING POINT FOR CONDENSATION TRAP AND COMPRESSED AIR PURGE SYSTEM

REVISION

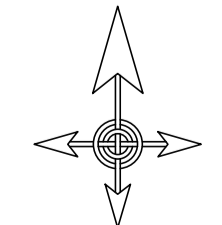
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D1	01.03.22	ISSUE FOR COSTING	SS	PNO



Project
BLANDFORD WASTE MANAGEMENT CENTRE

Title
FIRE DETECTION SYSTEM
WASTE TRANSFER BARN
CEILING LEVEL

Scale @ A1	1:100	C.A.D Ref.	G:\Office Files\Osborn\2200-2299\2295\Drawings\CAD\2295-FD02
Drawn	SS	Chkd/ Aprd	SS/PNO
Date	FEB.22	Project	005882 OAL ZZ RF DR E 5002
Volume	S4	Revision	D1
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LEGEND

	ADDRESSABLE FIRE DETECTION & ALARM CONTROL PANEL (Isolator with key and Power Supply needed)
	ADDRESSABLE REPEATER PANEL FOR THE SYSTEM REMOTE MONITORING (Isolator with key and power supply needed)
	POWER SUPPLY UNIT WITH 24/72h BATTERY PACK
	OPTICAL SMOKE DETECTOR
	OPTICAL SMOKE DETECTOR INSTALLED IN HORIZONTAL VOID WITH LED FOR INDICATION ON LOCATION
	OPTICAL SMOKE DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE
	HEAT DETECTOR
	HEAT DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE
	ELECTRONIC SOUNDER WITH FLASHING BEACON FOR INDOOR USE
	ELECTRONIC SOUNDER FOR INDOOR USE
	ELECTRONIC SOUNDER FOR OUTDOOR USE
	MANUAL CALL POINT FOR INDOOR USE (red color - break glass - surface mounted)
	INTERFACE I/O UNIT
	MULTI SPECTRUM TRIPLE INFRARED FLAME DETECTOR
	VESDA LASER ASPIRATING SMOKE DETECTOR PANEL (VMS Certified, interfaced to Fire Alarm Panel, 30A Isolator with key & Power Supply from Distribution Board needed)
	VESDA AIR SAMPLING POINT (ceiling installation)
	VESDA AIR SAMPLING PIPEWORK FOR SIMPLING POINT INSTALLED ON CEILING (typical Ø21mm)
	VESDA TEST CLEANING POINT FOR CONDENSATION TRAP AND COMPRESSED AIR PURGE SYSTEM

REVISION

REV	DATE	DESCRIPTION	CHKD	APRD
D1	01.03.22	ISSUE FOR COSTING	SS	PNO

Client

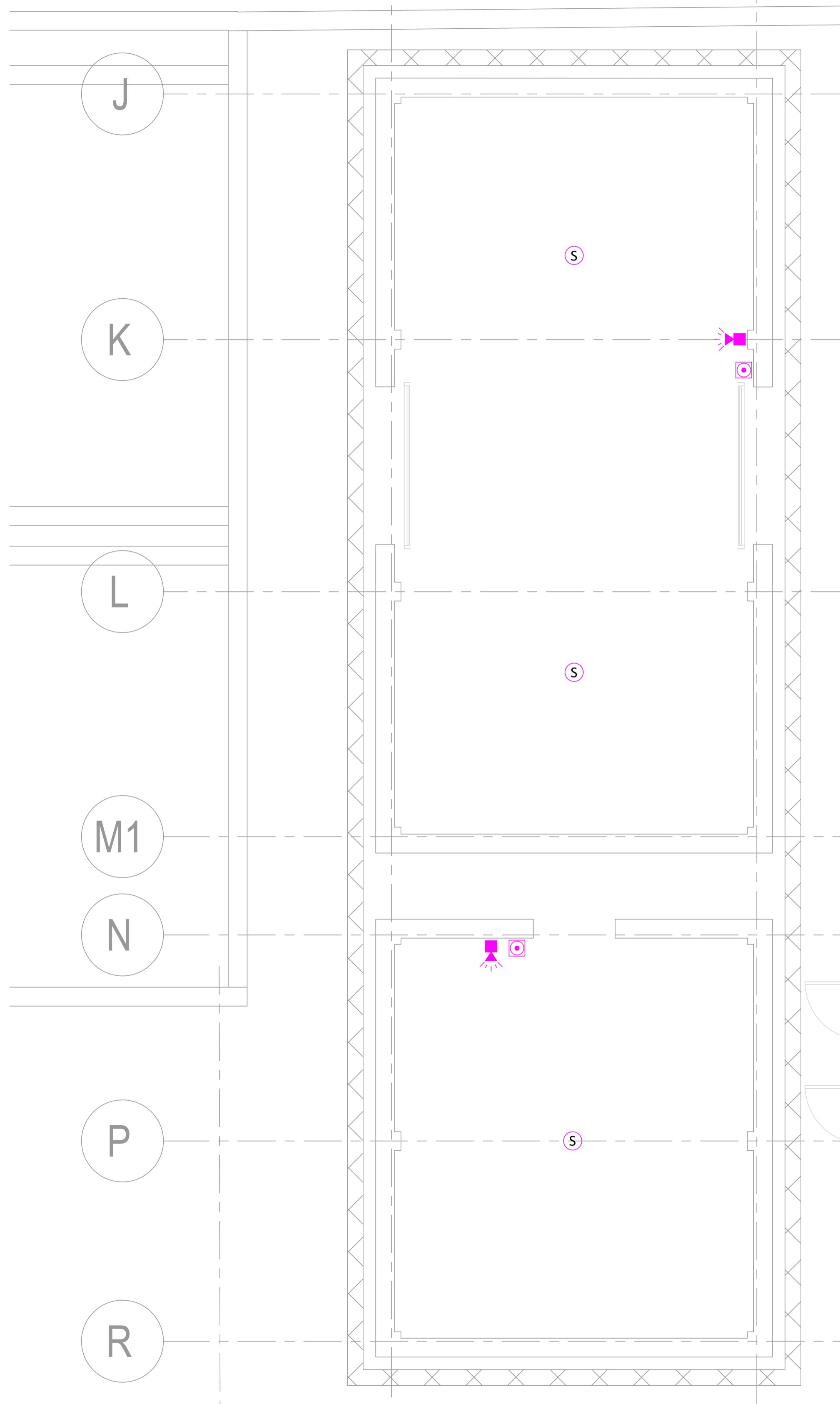
Building Services & Fire Engineering Consultants

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South Barn, Crockham Park
Crockham Hill, Edenbridge
Kent, TN8 6SR, England
TEL: +44 (0)1732 860460
www.osbornassociates.com

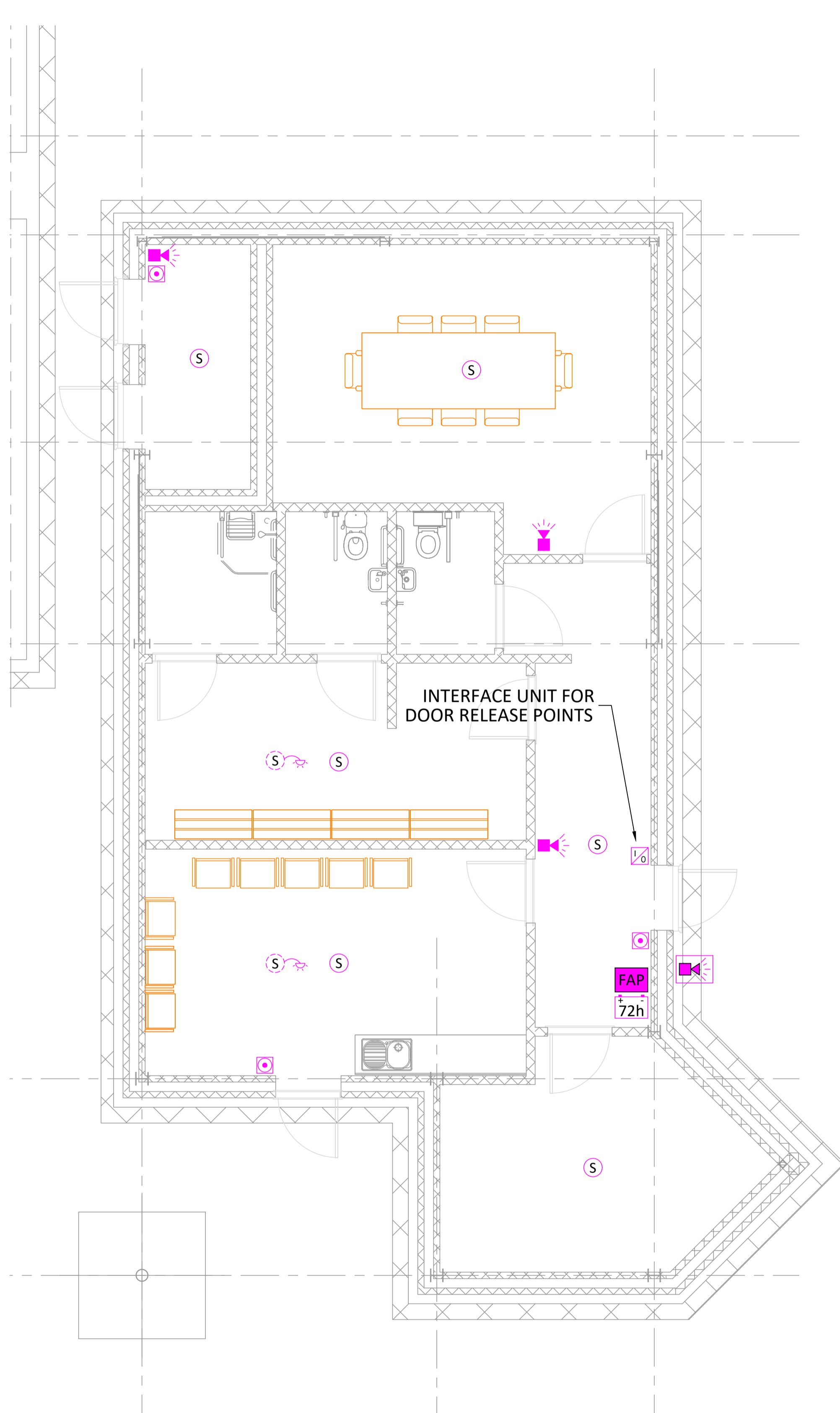
Project
BLANDFORD WASTE MANAGEMENT CENTRE

Title
**FIRE DETECTION SYSTEM
AMENITY BUILDING & MINOR STORES**

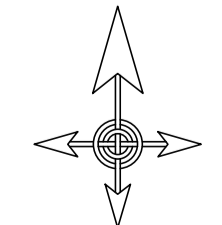
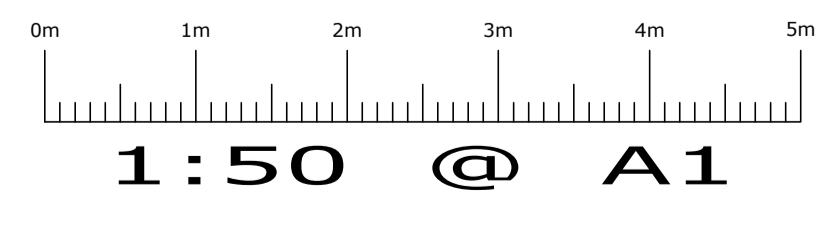
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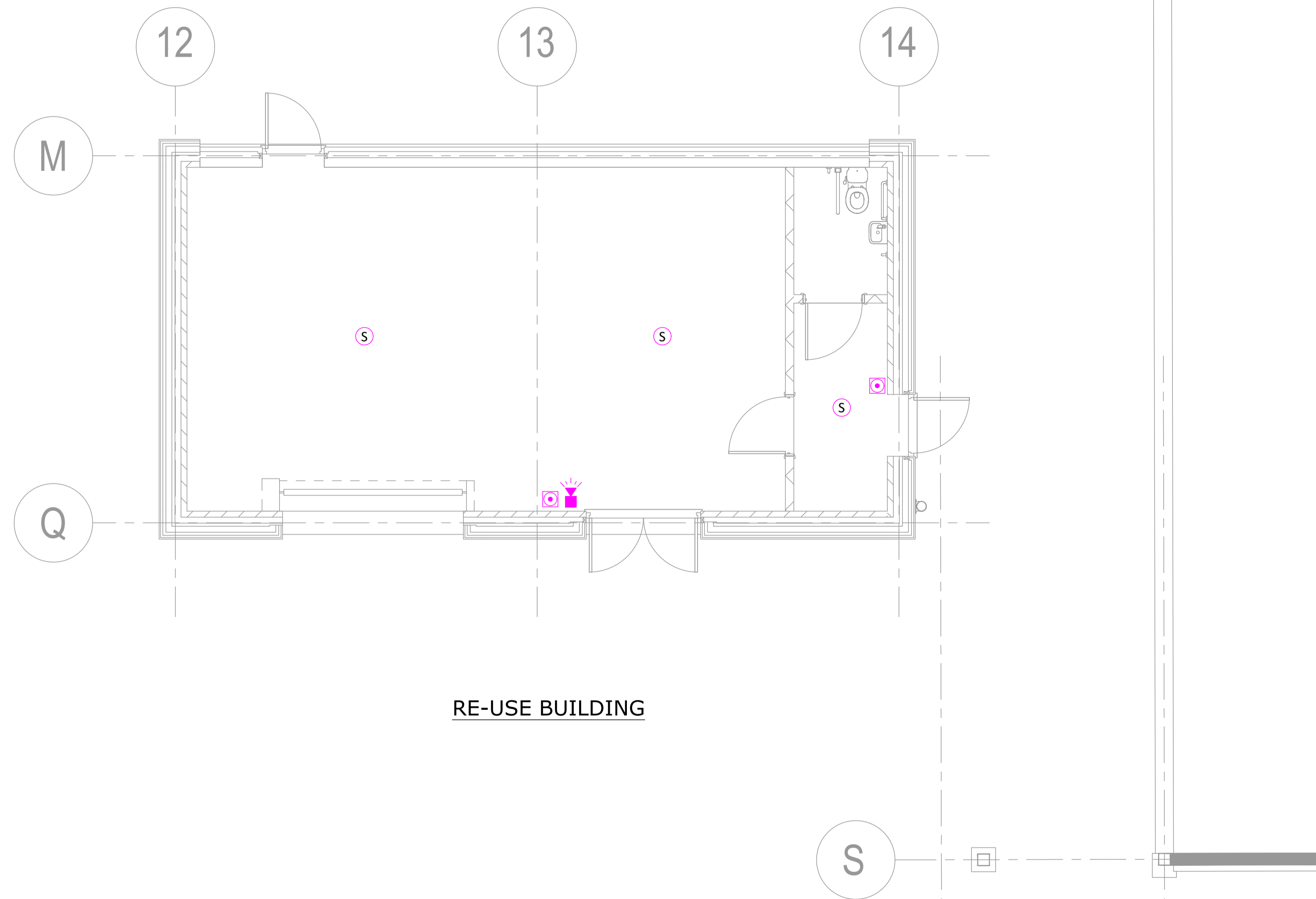


WASTE OIL & WEEE STORE



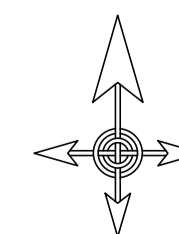
OFFICE AREA





RE-USE BUILDING

0m 1m 2m 3m 4m 5m
1:50 @ A1



NOTES

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LEGEND

FIRE DETECTION AND ALARM SYSTEM	
	ADDRESSABLE FIRE DETECTION & ALARM CONTROL PANEL (Isolator with key and Power Supply needed)
	ADDRESSABLE REPEATER PANEL FOR THE SYSTEM REMOTE MONITORING (Isolator with key and power supply needed)
	POWER SUPPLY UNIT WITH 24/72h BATTERY PACK
	OPTICAL SMOKE DETECTOR
	OPTICAL SMOKE DETECTOR INSTALLED IN HORIZONTAL VOID WITH LED FOR INDICATION ON LOCATION
	OPTICAL SMOKE DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE
	HEAT DETECTOR
	HEAT DETECTOR WITH INTEGRATED SOUNDER AND FLASHING BEACON BASE
	ELECTRONIC SOUNDER WITH FLASHING BEACON FOR INDOOR USE
	ELECTRONIC SOUNDER FOR INDOOR USE
	ELECTRONIC SOUNDER FOR OUTDOOR USE
	MANUAL CALL POINT FOR INDOOR USE (red color - break glass - surface mounted)
	INTERFACE I/O UNIT
	MULTI SPECTRUM TRIPLE INFRARED FLAME DETECTOR
	VESDA LASER ASPIRATING SMOKE DETECTOR PANEL (VLS Certified, interfaced to Fire Alarm Panel, 30A Isolator with key & Power Supply from Distribution Board needed)
	VESDA AIR SAMPLING POINT (ceiling installation)
	VESDA AIR SAMPLING PIPEWORK FOR SIMPLING POINT INSTALLED ON CEILING (typical Ø21mm)
	VESDA TEST CLEANING POINT FOR CONDENSATION TRAP AND COMPRESSED AIR PURGE SYSTEM

REVISION

REV	DATE	DESCRIPTION	CHKD	APRD
D1	01.03.22	ISSUE FOR COSTING	SS	PNO

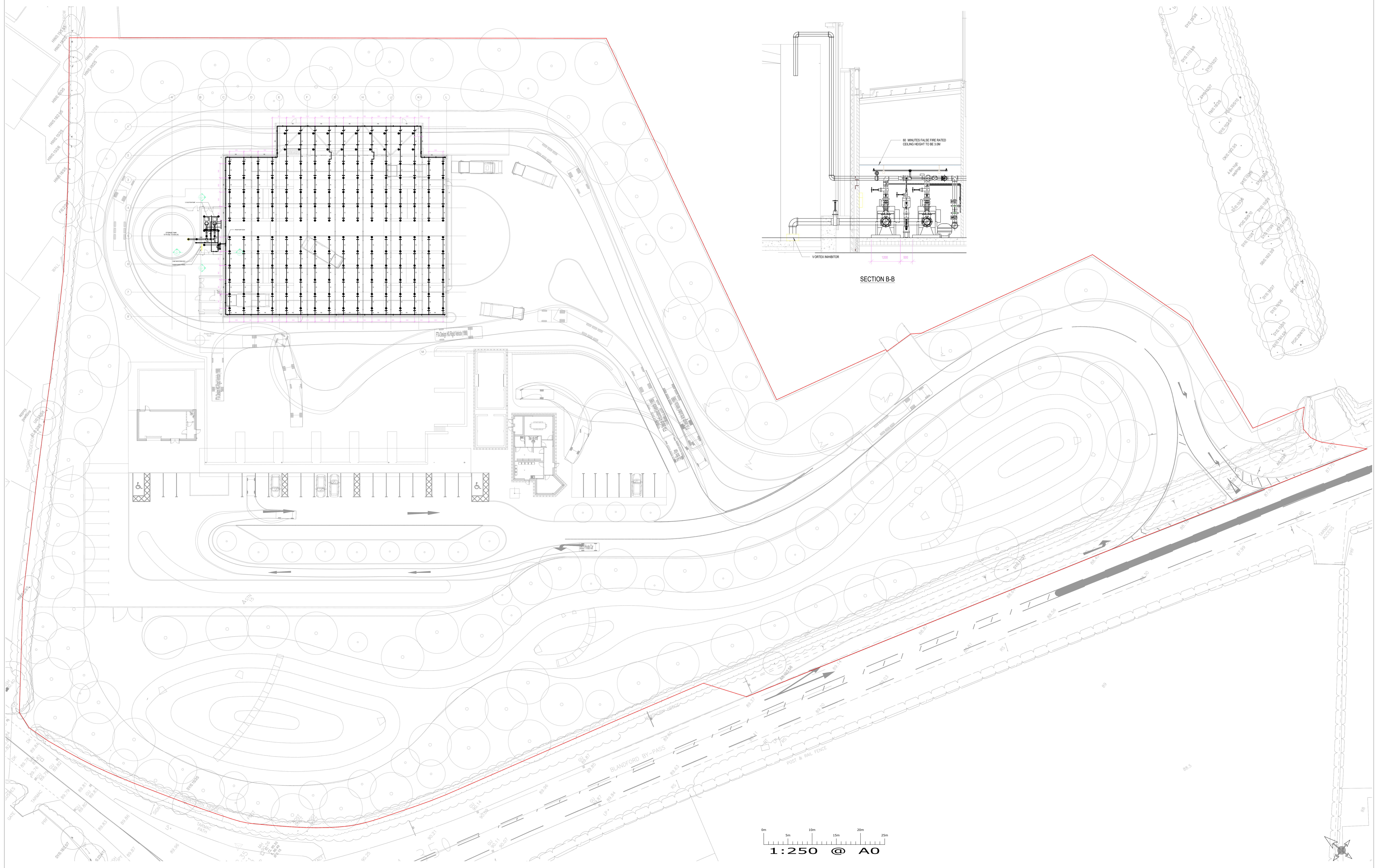
Client: Dorset Council

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Crockham Hill, Edenbridge
Kent, TN8 6SR, England
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Project: **BLANDFORD WASTE MANAGEMENT CENTRE**

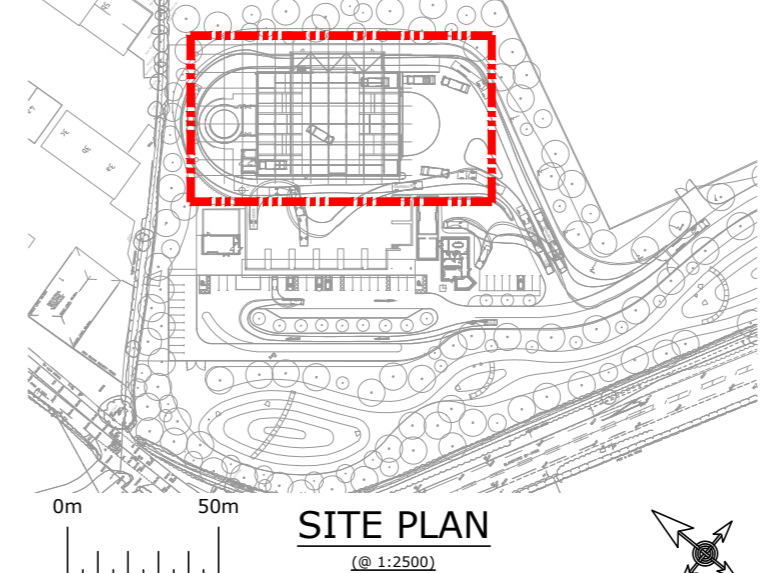
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RE-USE BUILDING**

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Date	FEB.22		
project	005882	original	ZZ
volume	00	sheet	DR
form	E	disc	5004
number	S4	status	D1
revision		revision	
SUITABLE FOR COSTING			
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0m 5m 10m 15m 20m 25m
1:250 @ A0

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Client: **Dorset Council**

Project: **BLANDFORD WMC**

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 Kent, TN8 6SR, England
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 www.osbornassociates.com

Project: **BLANDFORD WMC**

Title: **LOADING BAY ROOF SPRINKLER LAYOUT**

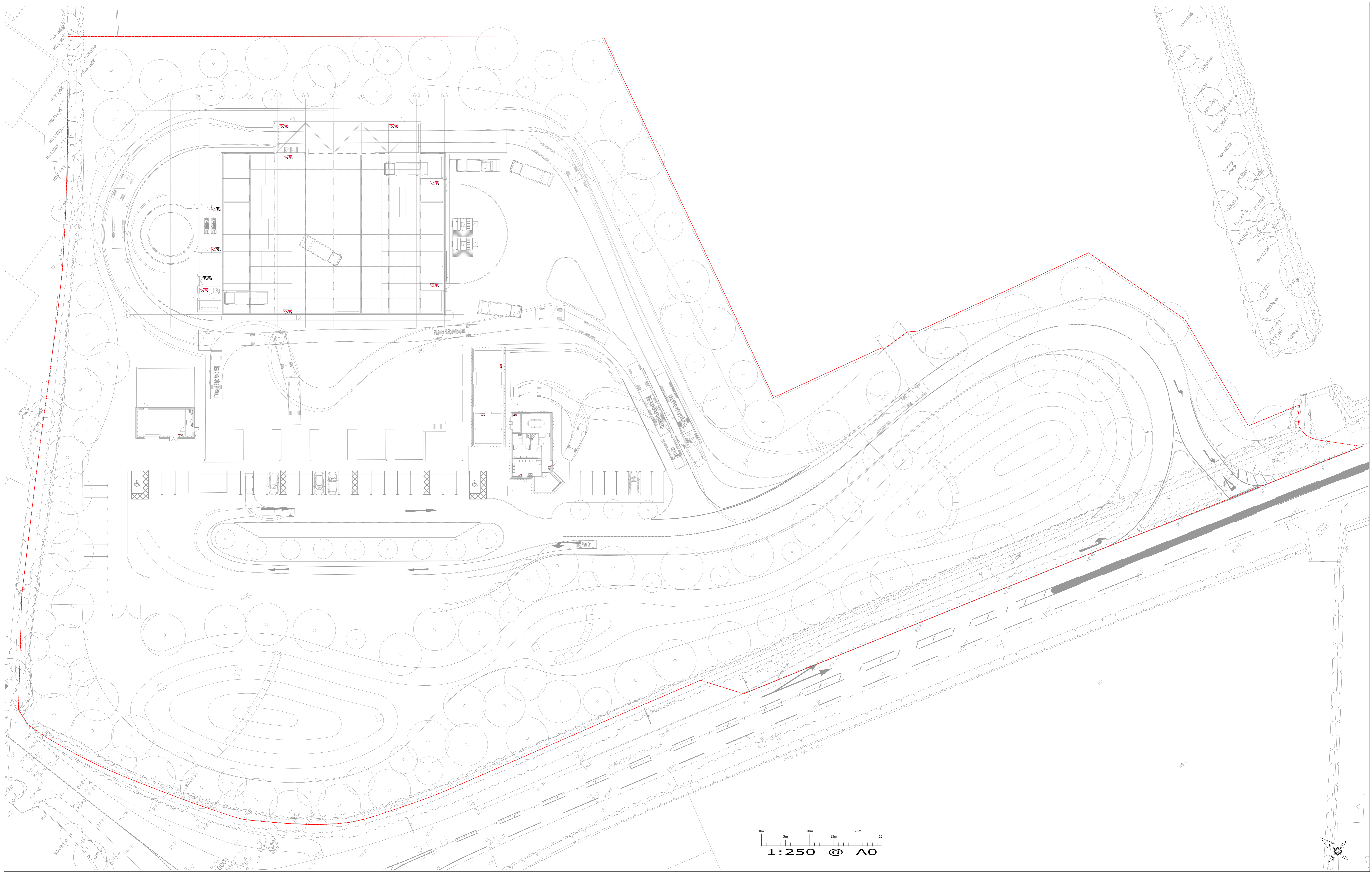
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P02	25.10.21	WORK IN PROGRESS ISSUE	CO	PNO
P01	25.08.21	ISSUED FOR INFORMATION	CO	PNO

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Drawn: **DW** Checked: **SD/SD** Date: **AUG.21**

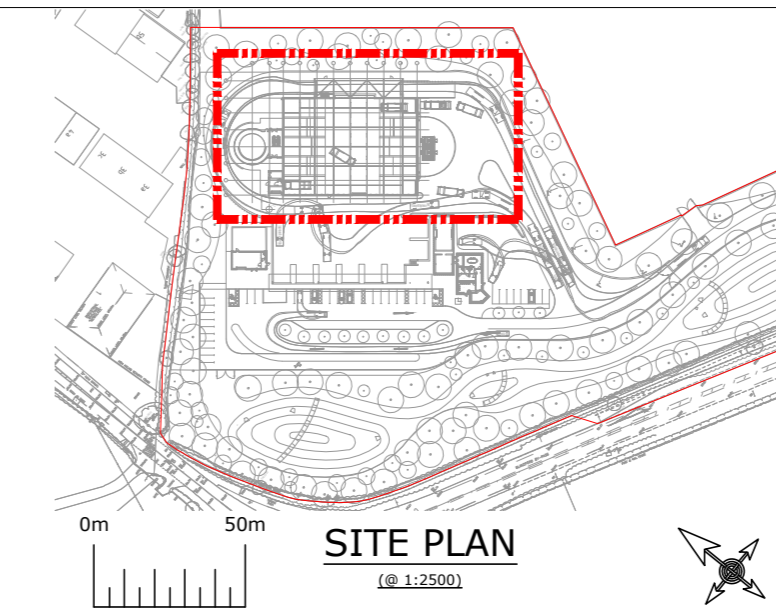
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Appendix 7 Fire Extinguishers



- Notes
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LEGEND	
	4.5kg CARBON DIOXIDE
	9litre WATER EXTINGUISHER
	6litre AFFF FOAM SPRAY FIRE EXTINGUISHER RATED AT 2/2A



Client

Dorset Council

Osborn Associates Ltd
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Crookham Hill, Esher, Surrey
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Project
**BLANDFORD WMC
FIRE STRATEGY**

Title
**FIRE EXTINGUISHER LOCATIONS
WASTE TRANSFER FACILITY
GROUND LEVEL**

REV	DATE	DESCRIPTION	CHKD	APRD
P02	14.02.24	SUITABLE FOR PLANNING	DB	PNO
P01	12.05.22	SUITABLE FOR INFORMATION	SS	PNO
REV	DATE	DESCRIPTION	CHKD	APRD

Scale	1:250	Client	DH	Date	REV
Drawn	DH	Checked	DH/SD	Date	MAY.21

005882 OAL ZZ 00 D O 2601 S2 P02
SUITABLE FOR PLANNING

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LEGEND

	4.5kg CARBON DIOXIDE FIRE EXTINGUISHER		9litre WATER EXTINGUISHER
	6litre AFFF FOAM SPRAY FIRE EXTINGUISHER RATED AT 27A		

REVISION

REV	DATE	DESCRIPTION	CHKD	APRD
P01	12.05.22	SUITABLE FOR INFORMATION	SS	PNO

Client

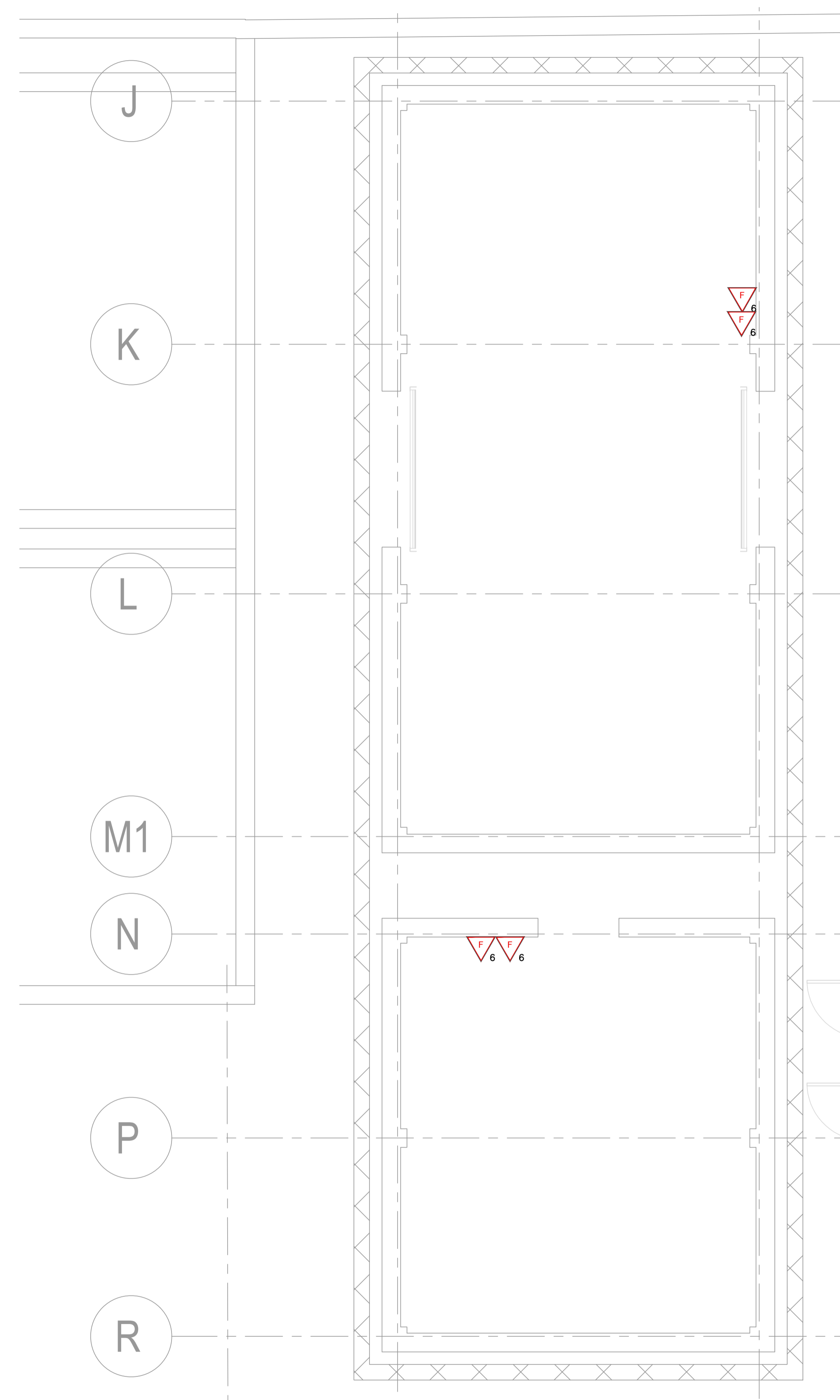


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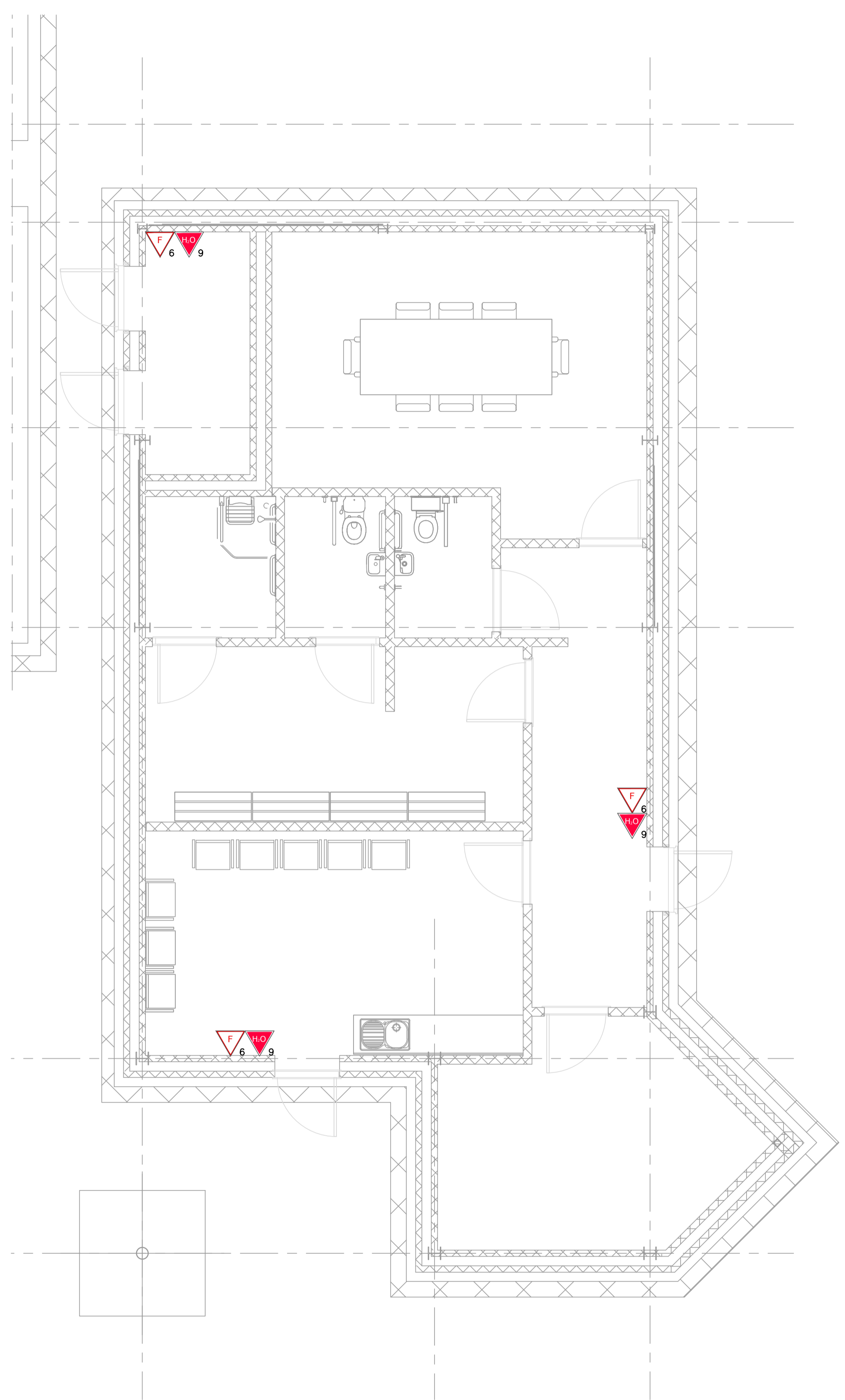
Project
BLANDFORD WASTE MANAGEMENT CENTRE

Title
FIRE EXTINGUISHER LOCATIONS AMENITY BUILDING & MINOR STORES

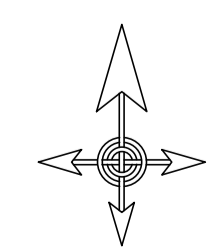
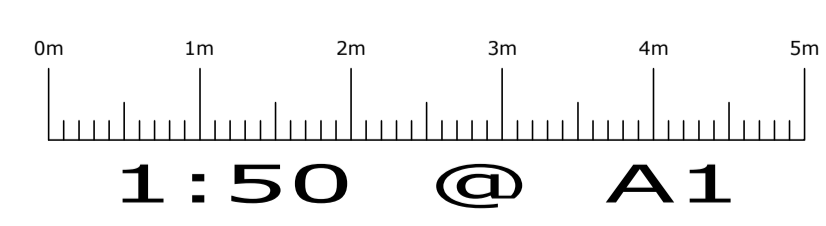
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SUITABLE FOR INFORMATION		Copyright 2022 Osborn Associates

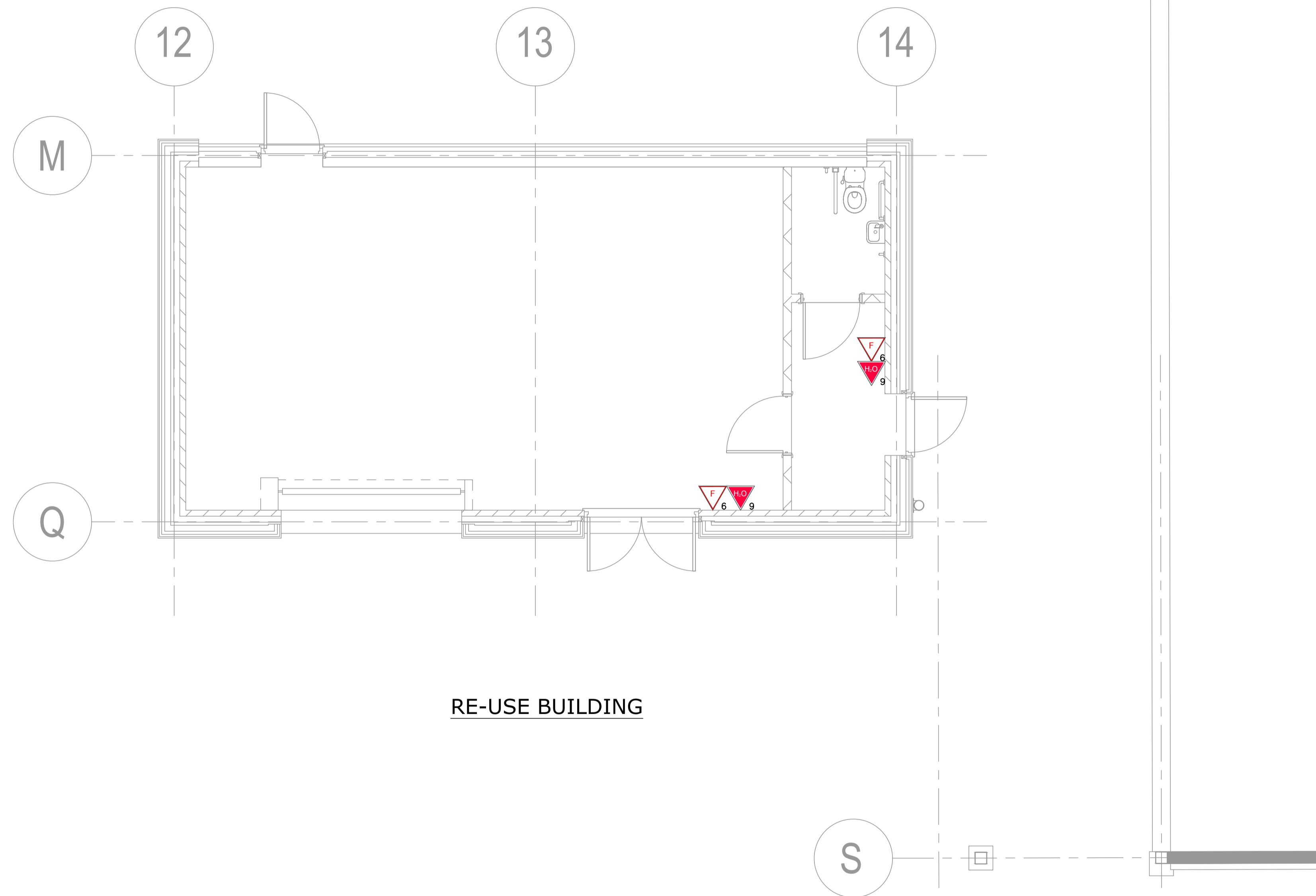


WASTE OIL & WEEE STORE

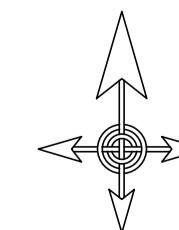
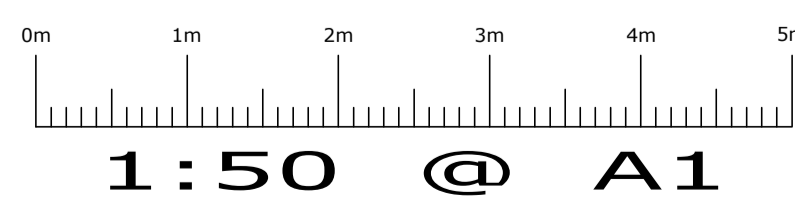


OFFICE AREA





RE-USE BUILDING



NOTES

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LEGEND

	4.5kg CARBON DIOXIDE FIRE EXTINGUISHER		9litre WATER EXTINGUISHER
	6litre AFFF FOAM SPRAY FIRE EXTINGUISHER RATED AT 27A		

REVISION

REV	DATE	DESCRIPTION	CHKD	APRD
P01	12.05.22	SUITABLE FOR INFORMATION	SS	PNO

Client	
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 Crockham Hill, Edenbridge
 Kent, TN8 6SR, England
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 www.osbornassociates.com

Project
BLANDFORD WASTE MANAGEMENT CENTRE

Title
**FIRE EXTINGUISHER LOCATIONS
 RE-USE BUILDING**

Scale @ A1	1:50	C:\A.D. C:\Office Files\osborn\2200-2299\2295 DCC Blandford Waste Management Centre Mach Services Design\Drawings\CAD						
Drawn	DB	Chkd/ Aprd/ Date						
		SS/PNO FEB.22						
project	original	volume	sheet	form	disc	number	status	revision
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