



**Starling
Environmental
Limited**

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FIRE PREVENTION PLAN

**for
INERT WASTE RECYCLING CENTRE
SANDHAM HOUSE, LEYLAND**

Report No 103/3

October 2023

For

HURT
Plant Hire

DOCUMENT CONTROL

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1. INTRODUCTION

1.1 Report Context

1.1.1 Starling Environmental Limited (SEL) has been commissioned by Hurt Plant Hire Limited (the operator) to prepare a Fire prevention Plan to support an environmental permit variation application for the waste transfer station located at Sandham House, off Redrose Drive, Leyland, Lancashire, PR26 6TJ. The site is regulated under environmental permit EPR/NB3094EE.

1.1.2 The site currently operates under Standard Rules permit SR2009 No 6 'inert and excavation waste transfer station with treatment'. This standard rules set is being withdrawn and the replacement standard rules on offer do not meet the existing requirements. Therefore, the operator wishes to vary the permit to a bespoke permit to enable continuation of operations.

1.1.3 Proposed changes include the storage of a small quantity of combustible waste, therefore a Fire Prevention Plan has been produced to demonstrate that the site can be operated to meet the three objectives stated in the EA guidance of:

- Minimise the likelihood of a fire happening
- Aim for a fire to be extinguished within 4 hours
- Minimise the spread of fire within the site and to neighbouring sites

1.1.4 Assessment of the site for fire prevention has been conducted in accordance with Environment Agency (EA) guidance on Fire Prevention Plans¹.

1.1.5 This FPP forms part of the site's Environmental Management System (EMS). The FPP will be kept in hard copy in the main office.

1.1.6 All drawings referenced are contained in Appendix A.

1.2 Responsibilities

- It is the responsibility of the Site Manager (SM) to ensure that all employees that work at the site are familiar with this plan
- The SM will review and improve this plan as necessary particularly where emergency situations have occurred
- It is the responsibility of the SM to maintain adequate fire precautions at the site
- The SM shall ensure that this plan is clearly understood and complied with by all employees and visitors to the site

¹ <https://www.gov.uk/government/publications/fire-prevention-plans-environmental-permits>

- The SM or nominated Fire Warden shall supervise the safe evacuation of the site and ensure all personnel report to the Fire Assembly Point in the event of a fire or during a drill exercise.
- The SM or nominated representative will conduct monthly inspections of fire points, fire exits, fire service access and monitor the requirements of this FPP to ensure a safe working environment at all times
- The SM or representative will maintain records of all fire drills

1.3 Site Details and Surrounding Area

1.3.1 The site is located off Redrose Drive within an industrial area of Leyland. The national grid reference for the site is SD 54041 24071. The location of the site is shown on Drawing No 103/01.

1.3.2 The site is located approximately 1.4 km north of the centre of the town of Leyland and some 5 km to the south of Preston, Lancashire.

1.3.3 The site is situated within an industrial estate (Enterprise Business Park) and is surrounded by industrial land use, including:

- Leyland Trucks to the north and east
- Warehousing to the south
- Lancashire County Council waste transfer station to the west

1.4 Layout

1.4.1 The site area is approximately 17,000 m² and is securely fenced with palisade fencing approximately 2 m high. The entrance is via lockable gates off Redrose Drive.

1.4.2 Site features include a large office building (Sandham House), car parking, weighbridge, workshop, waste processing building, wheel wash and a large yard area. Crushing and screening operations are carried out in the waste processing building and processed material is stored in the yard.

1.4.3 The site is surfaced with concrete and is served by two surface water drainage networks. The far eastern side of the site, which includes the aggregates storage yard, drains via surface channels into a hydrobrake and off site to the north. The western part of the site drains into an interceptor which is fitted with a high level alarm. From the interceptor water is discharged at the southern boundary. Both the northern and southern discharges join the surface water drainage system of the wider industrial estate.

1.4.4 The waste processing building is approximately 36m x 30m and 10.5m high. The building is fitted with lockable roller shutter doors. The base of the building comprises a reinforced concrete pavement.

1.4.5 A CCTV system is in use at the site to provide additional security.

1.4.6 Site features are shown on the Site Layout Plan, Drawing No 103/02.

1.5 Receptors

1.5.1 The location of the site in relation to potential receptors is shown on Drawing No 103/03. This illustrates the position of identified receptors within 1 km of the site. These are also listed in Table 1 below.

Ref	Receptor	Direction from	Approximate Distance from (m)
Domestic Dwellings			
1	Closest residences in Farrington	W	410 - 630
	Farms; Smith's Farm, Nock Nalling, Model Farm	NW	460
	Closest residences in Leyland	S	600
	Farms; Nook Farm, Yew Tree Farm	E	440 - 490
Industrial/Commercial Premises			
2	FDC Leyland on Lancashire Business Park	SW	30
	Warehouse on Lancashire Business Park	S	40
	Amazon Couriers on Lancashire Business Park	SE	40
	Leyland Trucks on Lancashire Business Park	N	70 - 150
	Industrial Operators in Leyland Business Park	E	370
	Industrial Operators in Centurion Industrial Estate	SE	540
	Industrial Operators in Hazelmere Industrial Estate	SW	770
	K Motors Independent Jaguar Land Rover	S	750
Water Features			
3	Drains	N, E, S, W	150 – 1km
	River Lostock	S, W, N, NE	390 – 1km
	Ephemeral ponds	N,NW,W,SE	190 - 830
Amenity/Recreation			
4	Recreation Grounds	SE	780 - 885
Highway/Major Road or Transport Link			
5	Northern Rail Link	E	290
	Centurion Way	S	400
	Farington Road (A582)	N	580
Hospitals/Care Homes			
6	Chorley House Care Home	S	285
Public Rights of Way			
7	Footpaths and Tracks	N,E,W,S	300 – 1km
Designated Sites/ Ecological Receptors			
8	Priority Habitat Deciduous Woodland	N,E,W,S	195 – 1km
Schools/Colleges			
-	None Identified	-	-

Table 1: Potential Receptors Within 1 km

1.5.2 The closest residential properties are just over 400 m to the west of the site in Farrington.

- 1.5.3 The site is accessed off Redrose Drive within the Enterprise Business Park. Roads within the access route also include Enterprise Drive and Centurion Way.

Surface Water

- 1.5.4 The closest surface water course is the River Lostock approximately 390 m to the west. The EA's Data Catchment Explorer website shows the site to be within the Lostock US Farrington Weir Water Body², which is reported as having moderate ecological status.

Groundwater

- 1.5.5 The underlying bedrock is designated as a 'secondary B aquifer', which is described by the EA as consisting of "predominantly lower permeability strata which may in part have the ability to store and yield limited amounts of groundwater by virtue of localised features such as fissures, thin permeable horizons and weathering". The underlying groundwater vulnerability is listed as 'medium-low'.
- 1.5.6 The site is not within a groundwater source protection zone.

Ecological Receptors

- 1.5.7 A conservation screening report was provided by the EA through pre-application advice. The screening report identified just one feature, the River Lostock, which is a migratory route for the protected species European Eel.
- 1.5.8 Searches using the DEFRA Magic map tool identified five Sites of Special Scientific Interest within 10 km of the facility. The closest is Beeston Brook pasture at 6.4 km. There is one local nature reserve (LNR) within 2 km of the facility, Preston Junction, 2 km to the north-east.

² <https://environment.data.gov.uk/catchment-planning/WaterBody/GB112070064911>

2. WASTE TYPES AND OPERATIONS

2.1 Waste Operations

2.1.1 The primary operation on site involves non-combustible waste. Construction, demolition and excavation waste is imported to site and deposited in the waste processing building. Waste is treated by crushing and screening to produce recycled aggregate products according to the WRAP protocol.

2.1.2 Minor operations involving the acceptance and storage of combustible waste are detailed below.

Wood Storage

2.1.3 It is proposed to carry out storage and bulking up of waste wood to allow any tree roots in excavation waste or wood in demolition waste to be segregated and stored on site. It is not proposed to treat the wood, only store in 40 yd³ containers before removal from site when full to a third party recycler. There will be a maximum of two wood containers on site at any time, one full awaiting collection and the other in the process of being filled. The proposed location of the containers is shown on Drawing No 103/4.

2.1.4 The proposed waste codes are listed in Table 2 below.

Waste Code	Description
02 01 07	Waste from forestry
17 02 01	Wood from construction and demolition
20 02 01	Biodegradable waste from parks and gardens

Table 2: Wood Waste Codes for Bulking and Storage

Temporary Overnight Storage for HWRC Collections

2.1.5 Hurt Plant Hire operates as part of the Fox Group of Companies. Part of the remit of the Fox Group is to provide waste haulage services for Lancashire County Council. This involves collection of containers of segregated waste streams from Household Waste Recycling Centres (HWRC) and transport to permitted sites for disposal or recovery. Containers collected include the following segregated waste streams:

- Comingled cans and plastic bottles
- Comingled cans, plastic bottles, glass bottles and cans
- Cardboard
- Paper
- Paper/cardboard
- Glass bottles and jars
- Green garden waste

- Hard plastic
- Inert waste
- Mattresses
- Non-recyclable
- POPs
- Scrap metal (ferrous)

2.1.6 Occasionally, the loads cannot be deposited at the permitted site before it closes for the day, due to traffic problems or early closures, and the load cannot be returned to its point of collection. Its not acceptable to park the vehicle on the public highway so on these occasions the operator would like to be able to park the vehicle securely within the site. The container would not be uncovered or removed from the vehicle, it will remain enclosed on the vehicle overnight and will continue to its original destination the following working day.

2.1.7 Any of the transported waste codes may require temporary storage. The waste codes which are combustible are listed in table 3 below.

HWRC Waste Stream	EWC	EWC Description
Paper	20 01 01	Paper and cardboard
Mixed paper and cardboard		
Cardboard		
Scrap metal (ferrous)	20 01 40	Metals
Cans/plastic bottles	20 01 40	Metals
Garden green waste	20 02 01	Biodegradable waste
Non-recyclable residual	20 03 01	Mixed municipal waste
Comingled cans, plastic bottles, glass bottles and cans	20 03 01	Mixed municipal waste
Glass bottles mixed	20 01 02	Glass
Hard plastic	20 01 39	Plastics
Inert waste	17 09 04	Mixed construction and demolition waste
Mattresses	20 03 07	Bulky waste
Non-recyclable	20 03 01	Mixed municipal waste
Paper/cardboard	20 01 01	Paper and cardboard
Paper		
Cardboard		
POPs	20 03 07	Bulky waste
	20 03 01	Mixed municipal waste

Table 3: Waste codes for temporary overnight storage in containers

2.1.8 A dedicated parking area for these vehicles has been marked out on the Drawing No 103/04.

2.2 Waste Acceptance Procedures

- 2.2.1 The waste acceptance procedure includes assessment of waste enquiries at the pre-acceptance stage by a technical assessor. Material which is considered contaminated or unsuitable for processing is rejected.
- 2.2.2 When the material arrives on site it is checked by the weighbridge operator and again by the site foreman on tipping. It is visually inspected for conformity and any non-conforming material will be rejected.
- 2.2.3 This process has been sufficient to control the risks for existing operations and will continue to be appropriate for the proposed changes.

2.3 Storage of Combustible Wastes

- 2.3.1 Storage of combustible material will be in accordance with EA guidance on maximum stockpile sizes and separation distances. Table 4 lists the stockpiles and sizes.

Ref*	Waste Type	Maximum storage time	Maximum Waste Pile Dimensions (m) (L x W x H)	Maximum Waste Pile Volume (approx m ³)**
1	Wood	1 month	(6.5 x 2.3 x 3.15) x 2 skips	47 x 2 = 94
2	HWRC waste as listed in Table	1 day	(6.5 x 2.3 x 3.15) x 2 skips on parked vehicles	47 x 2 = 94
Total				188

Table 4: Maximum Waste Storage and Volume of Combustible Waste

* as shown on Drawing No 103/04

** see stockpile calculation spreadsheet in Appendix B

- 2.3.2 The wood containers will be stored next to each other without a 6 m separation distance and will be considered as one stockpile. The individual containers will be accessible from all sides.
- 2.3.3 The maximum stockpile size for the two wood containers together will be 94 m³, which is well below the maximum stockpile size of 750 m in the EA guidance. The stockpile dimensions are well below the maximum dimensions in the EA guidance, which are 20 m wide x 20 m long x 4 m high.
- 2.3.4 In hot weather the wood containers will be covered to provide shading.
- 2.3.5 Allowance in the FPP has been made for a maximum of 2 HWRC containers on vehicles, although it is extremely unlikely that more than one vehicle will require overnight storage at any one time.

2.3.6 Again, the containers will be considered as one stockpile in terms of EA guidance on maximum stockpile sizes as they would be parked close together without the minimum 6 m separation distance. In the unlikely event that two vehicles are parked overnight together then they would be parked with 1 m separation distance between them.

2.4 Stock Recording and Rotation

2.4.1 All incoming skips and outgoing bulked-up loads will be recorded on the stock control system.

2.5 Maintenance of Plant/ Equipment

2.5.1 All mobile plant and vehicles are maintained and serviced according to manufacturer instructions. Records are kept in the site office.

2.5.2 Annual testing is carried out by a qualified electrician on all static systems and mobile electrical items (portable appliance testing PAT). This information is retained on site and is also required to comply with health and safety legislation.

2.5.3 A spill kit is located in the workshop, shown on Drawing No 103/04. Staff are trained in the use of the spill kit. Leaks will be soaked up using absorbent material from the spill kit.

2.6 Alarms and Fire Fighting Provision

2.6.1 A manual fire alarm system is installed across the site consisting of break glass call points and an audible and visual alarm. The system was designed, installed and maintained by a UKAS accredited (or alternative suitable qualified) fire safety contractor.

2.6.2 The site is also fitted with a CCTV system which is monitored out of hours by a security contractor. In the event of a break-in or signs of a fire the duty manager would be contacted by the security contractor, as well as the emergency services.

2.6.3 The site operates with a manual suppression system consisting of fire extinguishers and firehoses. Fire extinguishers are located around the site and there is a mains water supply as shown on Drawing No 103/04.

2.6.4 A mobile bowser used for dust suppression provides a portable water source that can be used to spray water in the event of a fire.

2.6.5 Each vehicle has its own fire extinguisher and these are checked in accordance with manufacturer's instructions.

2.6.6 Inspection of extinguishers is carried out annually by an independent company and records are maintained.

2.7 Monitoring

- 2.7.1 Temperature monitoring of the wood containers is not proposed as the wood waste will not be compacted or finely shredded so that spontaneous combustion could occur.
- 2.7.2 The HWRC waste will not be monitored as it would not be on site long enough.

2.8 Cleaning and Housekeeping

- 2.8.1 The yard is cleaned regularly with a street sweeper and the area around the wood bins will be swept clean at the end of each working day so that any debris around the containers is removed and not allowed to build up to create a fire risk.
- 2.8.2 Cleaning and inspections are recoded in the site diary.

2.9 Drainage

- 2.9.1 The western yard, where the combustible waste will be stored, is concreted and drains to an interceptor then to surface water sewer. The interceptor is to be fitted with a shut off valve so it can be isolated to stop water flowing off site in the event of a spillage or to contain fire water within the site.

2.10 Security

- 2.10.1 The site is surrounded by 2 m high palisade fence and the access is fitted with lockable security gates which are locked out of hours.
- 2.10.2 The site is fitted with CCTV which can be viewed in the site office or remotely by the site manager or security contractors.
- 2.10.3 Out of hours the system is monitored by a security contractor.

3. FIRE RISK ASSESSMENT AND MANAGEMENT

- 3.1 Potential causes of fire have been identified for the site that will require management and monitoring to reduce the risk of fires. These accord with section 7 of FPP guidance and are listed in Table 5 below along with management controls and an assessment of residual risk.
- 3.2 Turnaround of waste wood will be such that the oldest material is always removed from the site first. This will be managed by filling one container at a time.

Hazard	Prevention and Controls	Mitigated Risk
Arson &/ or Vandalism	<ul style="list-style-type: none"> ▪ The site is locked outside of operating hours and the site is securely fenced ▪ CCTV installed around the site with feed monitored out of hours by security contractor 	Low
Stockpiles – Self Combustion	<ul style="list-style-type: none"> ▪ Waste wood and HWRC waste is not susceptible to self-combustion ▪ Wood stored outside in open containers where any signs of smoulder will be spotted by site operatives ▪ HWRC waste stored for brief periods only 	Low
Accumulation of Dust	<ul style="list-style-type: none"> ▪ Crusher and screener will only process non-combustible waste ▪ No processing of wood waste so no combustible dust is produced 	Low
Flammable and Combustible Liquids storage	<ul style="list-style-type: none"> ▪ Fuel stored in double skinned tank away from combustible waste or machinery ▪ Oil storage only in the workshop in a bunded area ▪ No smoking on the site ▪ No ignition sources stored in these areas 	Low

Table 5: Fire Risk Assessment and Mitigation (continued over)

Hazard	Risk Management / Controls	Mitigated Risk
Electrical Equipment Faults	<ul style="list-style-type: none"> ▪ Regular checks for exposed wiring ▪ Periodic inspection of all electrical wiring and mobile electrical equipment by a qualified electrician ▪ Staff training to ensure electrical safety awareness ▪ Ensure all cables are kept secured and out of the way ▪ The use of extension cables and multi-points is kept to a minimum ▪ Fire extinguishers fitted to all vehicles 	Low
Build-up of Combustible Material around Equipment	<ul style="list-style-type: none"> ▪ No combustible waste is processed ▪ Combustible waste will be stored in containers in dedicated storage areas away from the processing plant 	Low
Discarded Smoking Materials/ Unauthorised Smoking	<ul style="list-style-type: none"> ▪ No smoking allowed on the site ▪ Staff training and awareness 	Low
Hot Exhausts	<ul style="list-style-type: none"> ▪ Combustible waste will be stored in dedicated containers so it will be out of contact for passing vehicles 	Low
Hot Works (eg welding/ cutting)	<ul style="list-style-type: none"> ▪ Hot works will be carried out under a permit to work system away from the combustible waste storage 	Low
Sparks from loading shovels/ buckets	<ul style="list-style-type: none"> ▪ Fire extinguishers are fitted within all vehicles and periodically checked ▪ Staff training and awareness 	Low

Table 5: Fire Risk Assessment and Mitigation (continued over)

Hazard	Risk Management / Controls	Mitigated Risk
Hot Loads	<ul style="list-style-type: none"> ▪ Hot loads will not be accepted 	Low
Ignition sources within mixed waste: Batteries	<ul style="list-style-type: none"> ▪ Only construction and demolition waste will be processed and this waste does not typically contain batteries or battery powered items. Any incidental items spotted will be removed during initial inspection in the reception area. 	Low
Use of industrial heaters	<ul style="list-style-type: none"> ▪ Industrial heaters are not used on site. 	Low
Adverse weather conditions: Prolonged dry/warm conditions	<ul style="list-style-type: none"> ▪ During prolonged hot weather the wood containers will be covered to provide shading 	Low

Table 5: Fire Risk Assessment and Mitigation

4. FIRE RESPONSE PLAN

4.1 General

- 4.1.1 The number of staff working on the site is recorded and details kept in the site office, including visitor records. In the event of a fire, all staff should go to the designated fire assembly point which is located near the entrance to the site and the fire marshal will ensure that all staff are accounted for.
- 4.1.2 The plant that can be utilised in any fire response to help with the Fire and Rescue Service (FRS) will be stored away from combustible material.
- 4.1.3 The site manager will be responsible for ensuring that access to the waste storage building is always available to FRS vehicles.
- 4.1.4 Drawing No 103/04 shows the location of the fire extinguishers, fire assembly point, location of combustible waste and quarantine area to be used in the event of a fire.

4.2 Emergency Action

- 4.2.1 The following fire response procedures should be followed on discovering a fire at the site:
- Raise the alarm and initiate evacuation of people on the site;
 - Call the Fire and Rescue Service (FRS) immediately (999);
 - Attack the fire if it's safe to do so using a fire extinguisher or a fire hose;
 - If a fire occurs in a container it will be extinguished using the hose and fire extinguishers. Any neighbouring containers will be dragged with the skip wagon into the quarantine area to provide additional separation distance from the burning container.
 - Stop all operations at the site and stop personnel and vehicles entering the site
 - Notify neighbouring properties using contact details shown on Drawing No 103/04;
 - Ensure plant operator is standing by to help create fire breaks, under the direction of the FRS when they arrive;
 - Appoint a responsible, clearly identified person to liaise with the emergency services on site;
 - Ensure access routes are clear;

- Close the valve on the interceptor to stop water getting out to sewer;

4.2.2 The fire response procedures will be displayed in the site office and waste storage building. These emergency procedures will be followed in the event of a fire at the site.

4.3 Fire Fighting Techniques

4.3.1 The following active fire-fighting techniques will be employed at the site to help a fire be extinguished within 4 hours:

- Access for fire engines to the site is via the site entrance which will always remain clear of vehicles;
- Fire extinguishers will be available around the site for use by staff if appropriate. Staff will be trained in their use, and they will be maintained and inspected appropriately;
- Mains water will always be available on site
- Staff will be available immediately during working hours to assist FRS in firefighting and within 30 minutes out of hours. Such staff will be trained to operate site plant.

4.4 Water Supply

4.4.1 EA guidance requires a water supply of at least 2,000 litres per minute for a minimum of 3 hours for a 300 m³ pile. As the stockpiles are small and will be stored within containers which are accessible from all sides, it is not considered that it would take 3 hours to extinguish a container fire, therefore it is considered that a water supply of 1 hour will be sufficient.

4.4.2 The maximum combustible stockpile size will be approximately 94 m³ (2 x wood skips). It has been calculated that a total of 38 m³ of water would be required for a 1 hour burn:

$$\begin{aligned} &2000 \text{ L per minute for } 300 \text{ m}^3 \\ &300 \text{ m}^3 / 2000 \text{ L} = 0.15 \text{ m}^3 / 1 \text{ L} \\ &94 \text{ m}^3 / 0.15 \text{ m}^3 = 627 \text{ L per minute} \\ &627 \text{ L} \times 60 \text{ mins} = 37,620 \text{ L} \\ &= 38 \text{ m}^3 \end{aligned}$$

4.4.3 There is a fire hydrant located adjacent to the southern boundary which could be accessed by the FRS. The hydrant is approximately 10 m from the site and the location is shown on Drawing No 103/04.

4.4.4 In addition there is a mains water supply to the site and hoses available for use.

4.5 Managing Firewater

- 4.5.1 In the event of a fire the shut off valve on the interceptor would be closed so that any water falling in the western yard will be retained on site. The capacity of the interceptor is approximately 50 m³ which is more than the firewater volume of 38 m³. In the unlikely event that additional water was used, this would pond in the low point of the site close to the wheelwash rather than flow out of the site.
- 4.5.2 Firewater contained on site would then be tested and removed by tanker to a licensed disposal facility using a third party contractor. Any remaining sludge would be scraped up and placed in a skip for testing, classification and off-site disposal.

4.6 Managing Waste/ Combustion Products

- 4.6.1 The designated quarantine area to be used in the event of a fire is located as shown on Drawing No 103/04. The size of the area is sufficient to contain 50% of the largest stockpile as shown on the drawing.
- 4.6.2 In the event of a fire, the waste operator will work with the EA, FRS, and the insurers to dispose of any waste combustion material to a suitable location as quickly as possible to reduce the risk of this material posing a risk to the environment.

4.7 Contingency Plan

- 4.7.1 In the event of a fire at the site, no waste will be brought to site until the fire is extinguished and the site is safe.
- 4.7.2 Any fire damaged waste will be removed from site for disposal to a suitably permitted facility.

5. STAFF TRAINING

- 5.1 All staff have had or will have fire awareness training which includes fire prevention and fire response. All staff will be made aware of the location of the FPP (in the office).
- 5.2 All staff will be trained so that they are familiar with the fire response plan, and there will be regular exercises to test how well the fire response procedures work. Staff undergo emergency procedure training at induction and then with ongoing 6-monthly refresher training. Fire drills are carried out every 6 months. At permit issue the staff will be trained on the fire prevention plan and this will be reinforced in the 6-monthly refresher training.
- 5.3 Staff have, or will receive, training to tackle small fires and understand the importance of ensuring control measures are carried out. All staff will be aware that they should not put themselves at risk and to call the FRS as soon as possible in accordance with the fire response plan.
- 5.4 All employees will be trained to look for fires, hot loads, smoke and signs of smoulders and what action to take if they see one, such as the use of mobile plant to move any suspect loads to a safe area or dousing suspect loads with water.
- 5.5 Any contractors working on the site will be given a basic induction prior to commencement of works, which will include the location of fire exits and what to do in the event of a fire.

APPENDIX A

Drawings



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LEGEND ——— SITE LOCATION

STARLING ENVIRONMENTAL LIMITED
 67 Chorley Old Road, Bolton,
 Greater Manchester, BL1 3AJ
 www: starlingenvironmental.co.uk
 email: claire@starlingenvironmental.co.uk
 Tel: 07989 673122

CLIENT
 HURT PLANT HIRE LIMITED

JOB TITLE.
 SANDHAM HOUSE, LEYLAND

DRAWING TITLE.
 SITE LOCATION PLAN

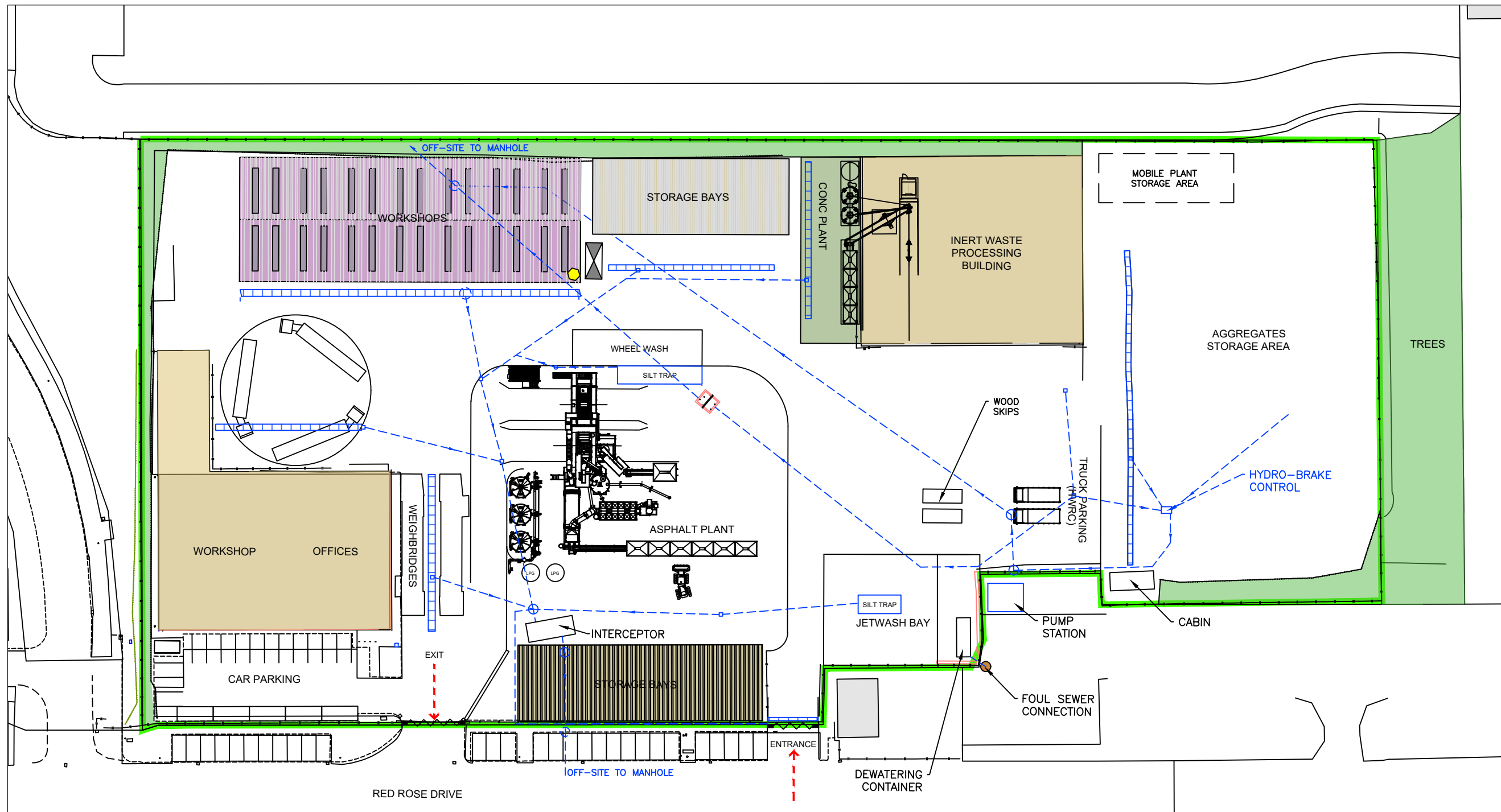
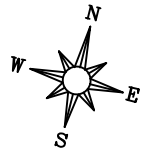
DRAWN BY.
 M.Y.B

DATE.
 08/09/23

SCALE © A4.
 1:50,000

APPROVED BY.
 C.G

DRAWING No.
 103/01



LEGEND

- PERMIT BOUNDARY
- - - DRAINS
- ◆ SPILL KIT
- LOCKABLE GATES
- FUEL/OIL STORAGE
- - - CATCH DRAIN
- FUEL/OILS

STARLING ENVIRONMENTAL LIMITED

67 Chorley Old Road, Bolton, Greater Manchester, BL1 3AJ

www: starlingenvironmental.co.uk

email: claire@starlingenvironmental.co.uk

Tel: 07989 673122

CLIENT

HURT PLANT HIRE LIMITED

JOB TITLE.

SANDHAM HOUSE, LEYLAND

DRAWING TITLE.

INDICATIVE SITE LAYOUT PLAN

DRAWN BY.

M.Y.B

DATE.

04/09/23

SCALE @ A3.

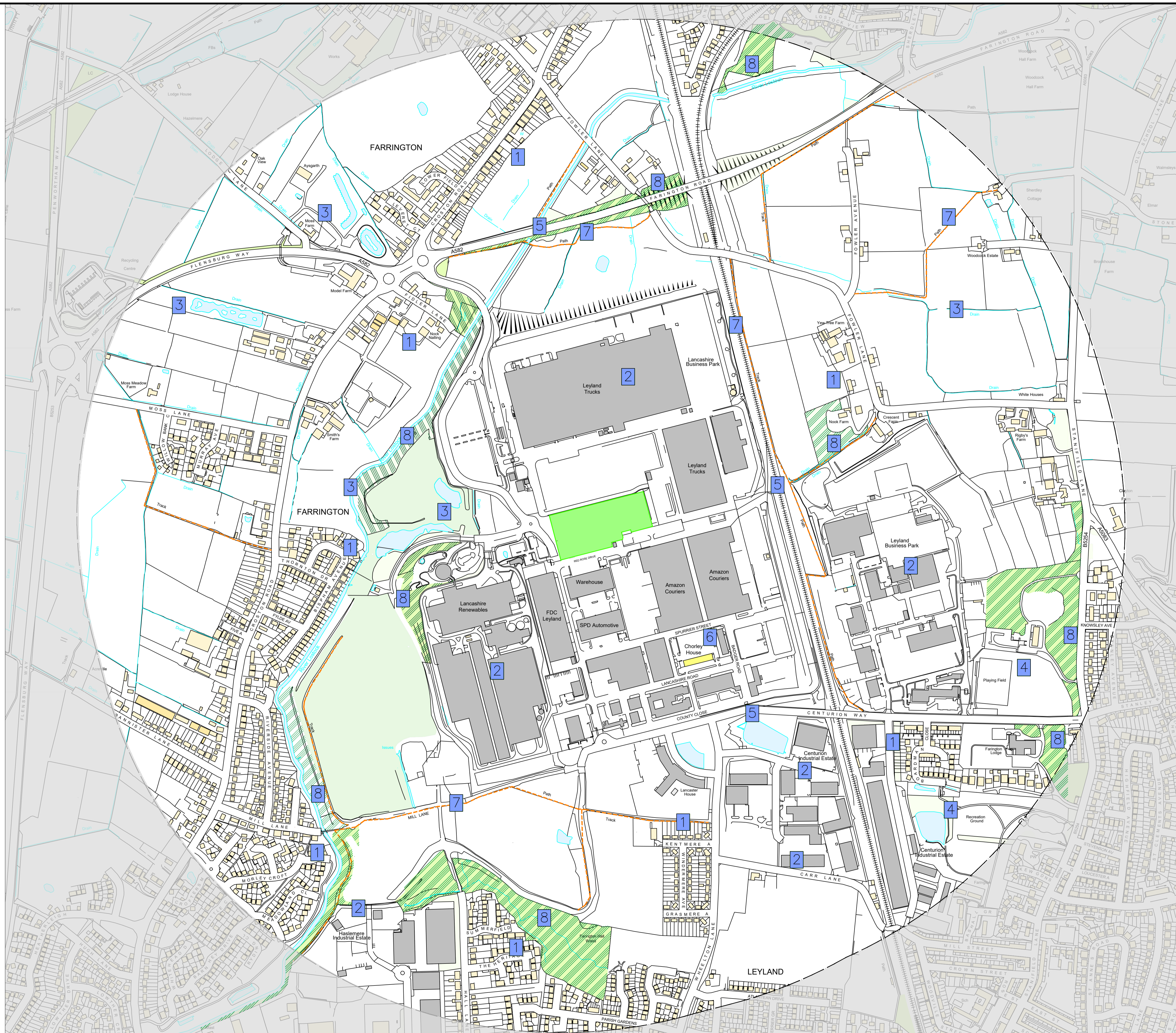
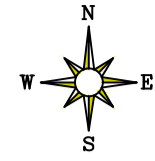
1:800

APPROVED BY.

C.G

DRAWING No.

103/02



- LEGEND**
- PERMIT AREA
 - 1 KM RECEPTOR BOUNDARY
 - FOOTPATHS
 - RESIDENTIAL AREA
 - INDUSTRIAL/COMMERCIAL AREA
 - WOODLAND
 - WATERBODIES/WATERWAYS
 - RECEPTOR REFERENCE (SEE REPORTS 103/2 AND 103/3)



REV.	DESCRIPTION	DATE	BY

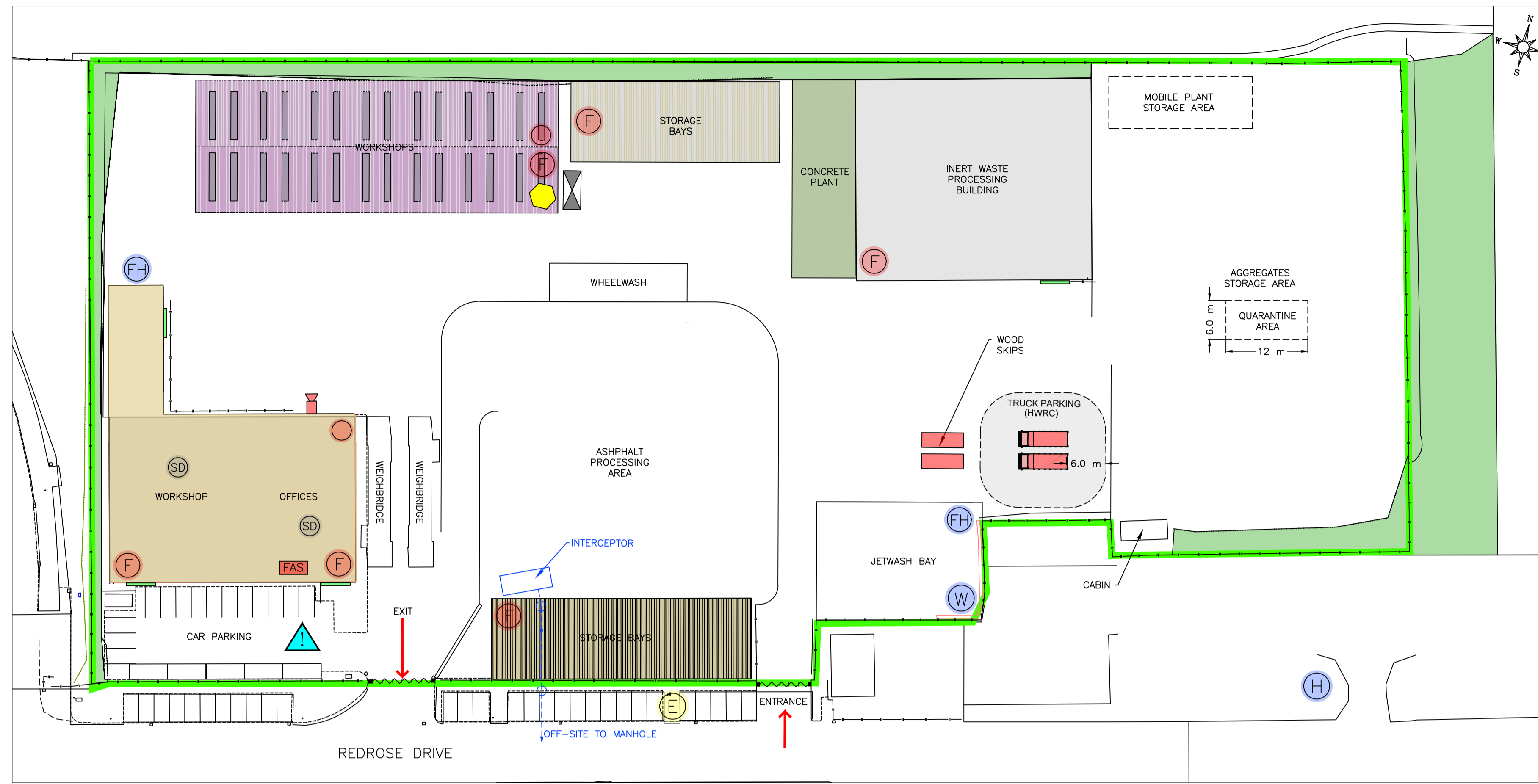
STARLING ENVIRONMENTAL LIMITED
 67 Chorley Old Road, Bolton,
 Greater Manchester, BL1 3AJ
 www: starlingenvironmental.co.uk
 email: claire@starlingenvironmental.co.uk
 Tel: 07989 673122

CLIENT:
**HURT PLANT
 HIRE LIMITED**

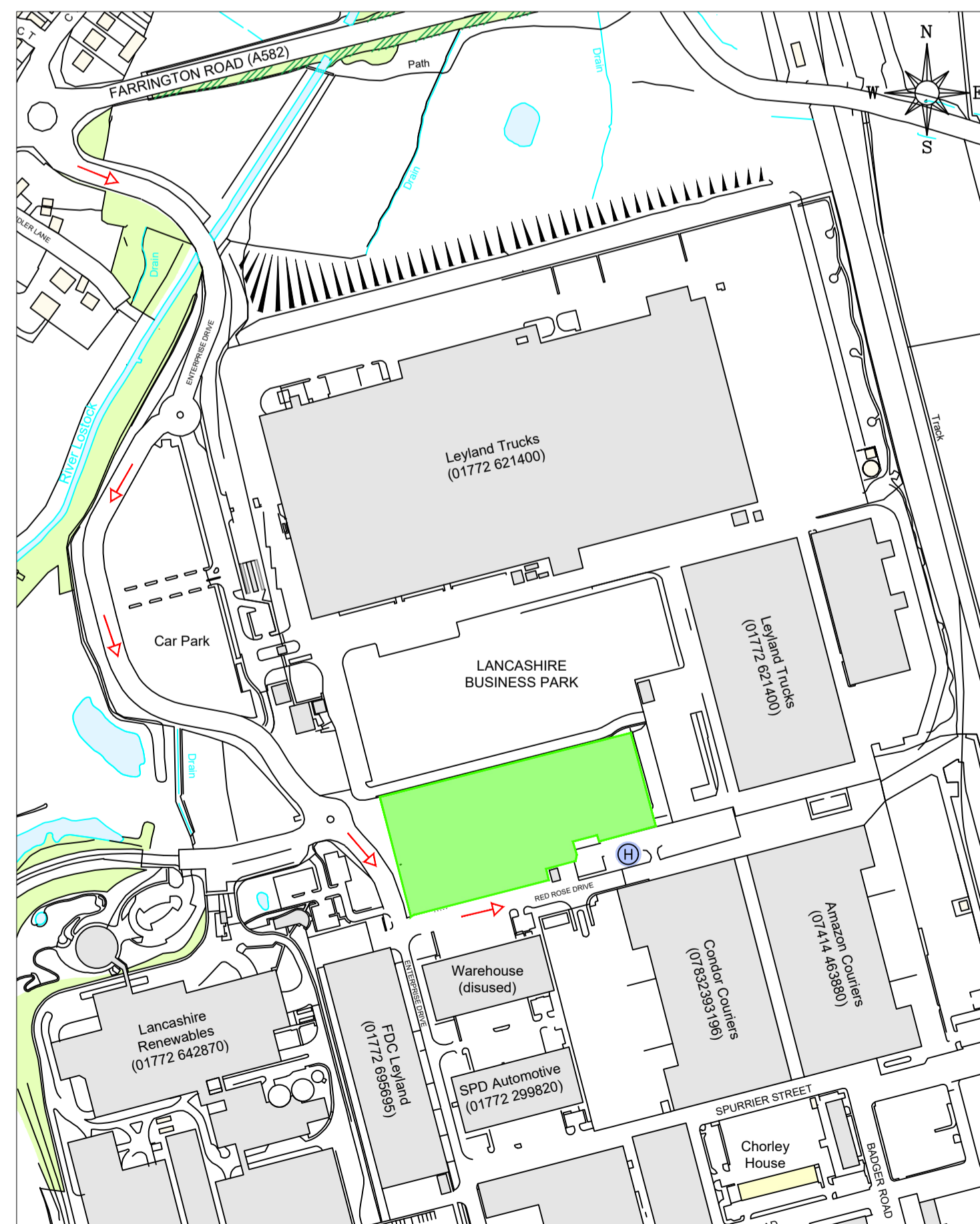
JOB TITLE:
**SANDHAM HOUSE,
 LEYLAND**

DRAWING TITLE:
**RECEPTORS
 WITHIN 1 KM**

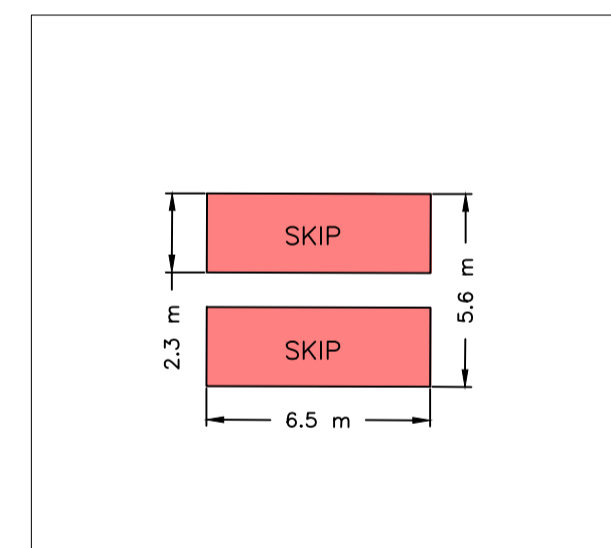
DRAWN BY: M.Y.B	APPROVED BY: C.G	DRAWING No: 103/03
DATE: 05/9/23	SCALE: ϕ A1: 1:4000	



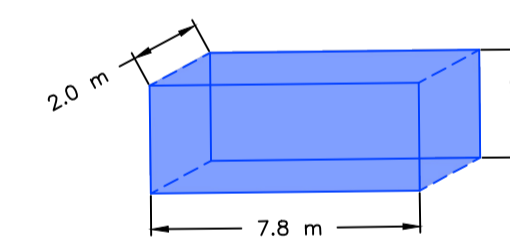
SITE LAYOUT & COMBUSTIBLE WASTE PLAN (SCALE 1:500)



SITE LOCATION PLAN & FIRE SERVICE ACCESS SCALE 1:4000

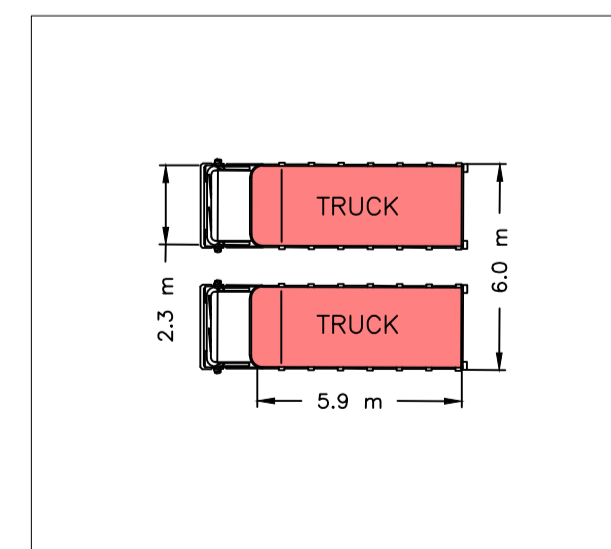


WOOD SKIP DIMENSIONS SCALE AS SHOWN

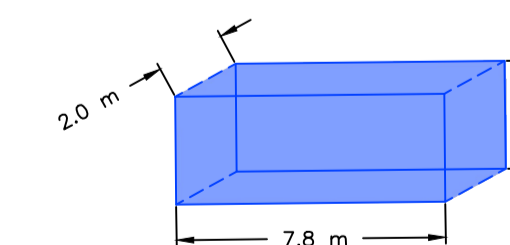


WOOD SKIPS FIREWATER CONTAINMENT SCALE AS SHOWN

INTERCEPTOR WITH SHUT-OFF VALVE
VOLUME: 48 m³ FIREWATER CONTAINED



HWRC TRUCKS DIMENSIONS SCALE AS SHOWN



HWRC TRUCKS FIREWATER CONTAINMENT SCALE AS SHOWN

INTERCEPTOR WITH SHUT-OFF VALVE
VOLUME: 48 m³ FIREWATER CONTAINED

- Legend**
- PERMIT AREA
 - LOCKABLE GATES
 - PALLISADE/PANEL FENCING
 - COMBUSTIBLE WASTE
 - MAINS WATER
 - MAINS ELECTRIC
 - HYDRANT
 - FIRE ALARM CALL POINT
 - FIRE ALARM SYSTEM
 - AUDIBLE ALARM
 - FIRE DOOR
 - MUSTER POINT
 - SPILL KIT
 - FIRE EXTINGUISHER
 - ACCESS FOR FIRE SERVICES
 - FIRE HOSE
 - FUEL/OIL STORAGE
 - CATCH DRAINS
 - SURFACE WATER DRAINAGE DIRECTION (SUBSURFACE)
 - FIREWATER CONTAINMENT
 - SMOKE DETECTOR
 - SHRUBS/HEDGE



REV.	DESCRIPTION	DATE	BY

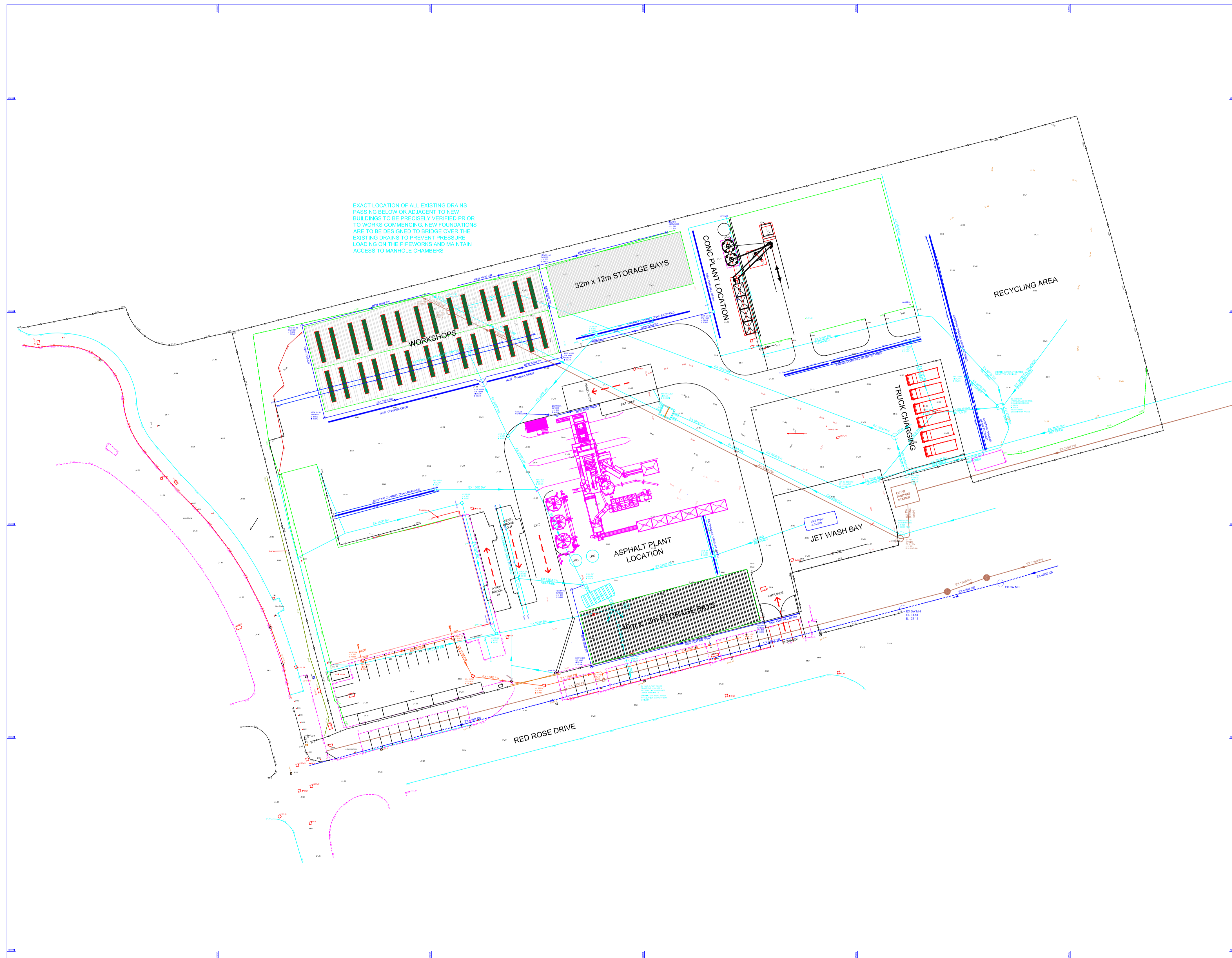
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CLIENT:
**HURT PLANT
HIRE LIMITED**

JOB TITLE:
**SANDHAM HOUSE,
LEYLAND**

DRAWING TITLE:
**FIRE PREVENTION
PLAN**

DRAWN BY: M.Y.B	APPROVED BY: C.G	DRAWING No. 103/04
DATE: 20/9/23	SCALE @ A2: 1:4000	



Rev	Details	By	Date

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Client	HURT PLANT HIRE
Project	SITE SERVICES SURVEY AND RECORDING
Title	PROPOSED DRAINAGE LAYOUT

APPENDIX B

Stockpile Calculation Spreadsheet

COMBUSTIBLE WASTE CALCULATION SPREADSHEET

Ref	Location	Waste Type	Length	Width	Height	Stockpile Type	Truncated (c)	Truncated (d)	Other Calculations	Volume (m ³)
1	Yard	HWRC waste	6.5	2.3	3.15	2 x Containers	-	-	$(6.5 \times 2.3 \times 3.15) \times 2$	94
2	Yard	Wood	6.5	2.3	3.15	2 x Containers	-	-	$(6.5 \times 2.3 \times 3.15) \times 2$	94



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