

# Construction Method Statement

Gipsy Lane Battery Energy Storage Facility
for:

Enso Energy Ltd

'Experience and expertise working in unison'

www.enzygo.com

## Contact Details:

Enzygo Ltd.
The Dairy
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

tel: 01454 269237
fax: 01454 269760
email: steve.rhodes@enzygo.com
www: enzygo.com

# Construction Method Statement

| | |
|---|---|
| Project: | Gipsy Lane Battery Energy Storage Facility |
| For: | Enso Energy Ltd |
| Ref: | SHF.349.012.R.001.C |
| Status: | Revision C |
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| Author: | Steve Rhodes **Director** |
| Reviewer: | Richard Hamilton **Director of Geoenvironmental** |

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# 1.0 INTRODUCTION

**Background**

1.1 The existing Planning Consent includes a planning condition requiring a Construction Management Plan.

1.2 Conditions 4 requires that: 'No development (including any site clearance or preparation works) shall take place until such time as a detailed Construction Management Plan (CMP), has been submitted to and approved in writing by the Local Planning Authority. The approved CMP shall be adhered to throughout the construction period. The development shall not be carried out otherwise than in accordance with the approved CMP without the prior written permission of the Local Planning Authority. The CMP shall include the following:

a. the parking of vehicles of site operatives and visitors;

b. loading and unloading of plant and materials;

c. storage of plant and materials used in constructing the development;

d. the erection and maintenance of security hoarding including decorative displays and facilities for public viewing, where appropriate;

e. wheel washing facilities;

f. measures to control the emission of dust and dirt during construction;

g. a scheme for recycling/disposing of waste resulting from demolition and construction works;

h. measures for the protection of the natural environment from accidental spillages, dust and debris;

i. hours of construction, including deliveries;

j. measures for protection of the existing utility mains within and adjacent to the site; and

k. measures for the protection of existing Rights of Way which crosses the site;

1.3 Enzygo Limited has been commissioned by the Client to prepare a Construction Method Statement for a proposed facility. It is intended that this Construction Method Statement will be submitted to discharge Condition 4.

1.4 It is recognized that this Construction Method Statement is a 'living document' and will evolve with future input from the Principal Contractor and specialist Contractors as the design development and construction programme is refined.

1.5 It is anticipated that the Construction Method Statement will also evolve to meet the requirements of the Principal Contractor's Construction Stage Health and Safety Plan.

**Objectives**

1.6 The objectives of this document are to address Condition 4. The Construction Method Statement will address the following:

- Details of the proposed development and Construction Works.
- the parking of vehicles of site operatives and visitors;
- loading and unloading of plant and materials;
- storage of plant and materials used in constructing the development;
- the erection and maintenance of security hoarding including decorative displays and facilities for public viewing, where appropriate;
- wheel washing facilities;
- measures to control the emission of dust and dirt during construction;
- a scheme for recycling/disposing of waste resulting from demolition and construction works;
- measures for the protection of the natural environment from accidental spillages, dust and debris;
- hours of construction, including deliveries;
- measures for protection of the existing utility mains within and adjacent to the site; and
- measures for the protection of existing Rights of Way which crosses the site;

1.7 Currently the Principal Contractor is yet to be appointed and additional information and refinement to this plan is expected from the Contractor. Any amendments will be provided to the Local Planning Authority for approval prior to commencement of development.

1.8 In accordance with good practice this statement is being prepared at an early stage in the site development to allow it to be used to influence the detailed design and construction process.

## 2.0 OVERVIEW OF CONSTRUCTION WORKS

### General

2.1 The current proposal is to construct a battery energy storage facility capable of providing energy to the National Grid. The facility would draw energy from the National Grid during low demand periods, storing it for release when required to cope with short-term peak energy demand.

2.2 The proposed development, shown on drawing no. 21225-0200, would comprise a concrete hardstanding for 5no. 4MW battery modules and a DNO substation building. Each battery module will comprise 4no. battery containers with end mounted HVAC units, 5no. inverter transformers. The site compound would have a 4m high acoustic barrier to the three sides closest to nearby properties.

2.3 Proposed development works will involve the following:

1 General site strip to remove vegetation and topsoil from below the proposed development area. Topsoil will be retained on site for future use within landscape areas where feasible and required;
2 Construction of a site access;
3 Reduced level excavation to sub-formation level;
4 Substructure works to the building and hardstanding. It is anticipated that the equipment and associated buildings will be constructed off an area of hardstanding and no deep foundations or piling is proposed;
5 Construction of site drainage and services;
6 Construction of the hardstanding for the pavement areas;
7 Installation of plant and equipment; and
8 Commissioning of the facility.

2.4 More specific information is given for the main stages of work are outlined below:

### Enabling Works

2.5 Site preparation works are to be confirmed by Smiths Brothers.

2.6 Where overhead services are present are present appropriate measures are to be confirmed by Smiths Brothers.

2.7 During construction works, including any site investigations, goal posts will be used to protect overhead cables as agreed with the utility company. Where necessary a banksman will be present to check the height of plant in relation to the goal posts.

2.8 The locations of underground services will be confirmed on site prior to construction works, including any site investigations. The method of accurately locating underground services will be agreed with the utility company but will comprise a combination of utilities scan and physical investigation. The investigation will be by either hand pits or Vax Ex methods depending on type and depth of services as agreed with the utility company.

2.9 Where sensitive services are present within the site which require protection this will be provided by fencing off the easement to the services, where feasible and using Vacuum Excavation (VacEx) methods where necessary close to the services.

2.10 Where crossings over services is required protection measures are to be confirmed by Smiths Brothers.

2.11 All measures will be agreed by the Principal Contractor with the utility company in advance.

2.12 There are no public rights of way crossing the site which require retention or temporary re-location.

**Ground Investigation**

2.13 No significant ground engineering or contamination risks have been identified but ground investigation will be required to provide ground engineering properties to allow design of foundations and infrastructure.

**Access**

2.14 Access is to be provided from Manchester Road to the west. The location of the access is shown on Drawing 21225-0201 – Planning Arrangement 1:500.

2.15 Detailed design is yet to be undertaken but it is anticipated that the current access road through the existing car park will be utilised along with a new a DNO/maintenance surface provided from the existing car park to the site which is yet to be agreed.

2.16 In accordance with normal construction practices permanent kerbs, gully covers and weaking course will be added once the site nears completion.

2.17 Separate pedestrian access will be provided either through use of a footway or area of roadway fenced off from the construction traffic. Details will be provided by the Principal

Contractor in accordance with the obligations under the Construction, Design and Management (CDM) Regulations.

**Preparation Works**

2.18 Once the enabling works have been undertake the site preparation works can be undertaken. These will comprise:

- Provision of fencing around the site to provide security. Initially it is likely that this will be temporary metal fencing until the development has progressed sufficiently to provide suitable hording.
- Removal of existing vegetation and grubbing out of any trees which require removal. These works will be undertaken in accordance with the requirements of any ecological and arboriculture surveys. Where appropriate, protection measures will be provided to root protection zones to retained trees.
- Vegetation removed from the site preparation works will be removed from site as this cannot be accommodated. It is anticipated the vegetation will be taken to a suitable licenced facility for composting.
- Existing topsoil from below the development area will be excavated and stockpiled for future re-use on site within soft landscape areas. Topsoil will be excavated, stored and replaced in accordance with the requirement of British Standards BS3882
- The site compound will be established and will comprise an area of hard core which will accommodate: site offices and accommodation, wheel wash, temporary car park for workers and visitors, overnight parking for plant and security office.
- An indicative location and layout of the site compound is included on Drawing CRM.348.003.GE.D.001. The site compound will be separated from the remainder of the site by fencing with a vehicular access and separate pedestrian access. Final details of the site compound will be provided by the Principal Contractor, once appointed and the drawing up-dated accordingly.
- Bulk excavation down to sub-formation level across the site.
- Any areas of unforeseen contamination encountered during the reduced level excavation will be identified and assessed in accordance with the Preliminary Risk Assessment prepared by Enzygo Ltd.

- Where suitable excavated soils will be re-used within the site a cut and fill balance will be used to minimise the generation of waste. Where there is a surplus of soil the soils will be re-used, where possible on other sites under a Materials Management Plan. Where this is not feasible surplus souls will be discarded off site at a suitably licensed facility. This approach follows the hierarchy of waste management.
- The reduced level excavation will be raised to formation level using selected granular materials. Where possible secondary aggregate will be used, including materials recycled from the site compound. Areas of proposed hard standing outside of the working area will be made up using capping material. This will then form a running layer for plant and equipment.

**Construction Works**

2.19 Sub structure works to the proposed buildings will comprise the following:

- Construction of a raft slab; or
- Excavation of shallow strip footings.,

2.20 Engines will be constructed on thickened rafts.

2.21 Based on the findings of the PRA no piling is required.

2.22 Once the foundations are in place the floor slab will be constructed.

2.23 Infrastructure comprising surface and foul water, gas and electricity will be installed and connected to service entry points within the ground floor slab. Appropriate attenuation will be constructed to the surface water drainage system.

2.24 Areas of hardstanding will be constructed up to road base together with temporary setting of manholes.

2.25 The structure will be erected. The building is expected to be of conventional masonry construction.

2.26 Final wearing course can then be placed on areas of hard standing, top soiling to soft landscaping and the screed to the floor slabs.

**Plant Installation**

2.27 Plant and equipment installation will be undertaken by specialist suppliers and contractors. This is discussed in Section 4.

**Planning and Outline Programme**

2.28 A programme has been prepared for construction of the works. This is currently an outline programme which will be used by the appointed Principal Contractor to develop a specific construction programme taking account of their method and schedules of working. A copy of the outline programme is included in Appendix A.

2.29 The construction programme will incorporate a critical path which can accommodate incorporated design, co-ordinated trade contractors design and design reviews, procurement, equipment/materials orders, deliveries and site installation period as necessary.

2.30 The construction programme will be monitored, tracked and updated on a regular basis and any corrective action applied as necessary.

2.31 The construction programme will be used to identify times and periods of works which may have adverse impact on neighbours. Typically this may include periods of more noisy operations, such as demolition and piling. By identifying these periods the impact on neighbours can be more easily managed.

## 3.0 SPECIFIC MEASURES

### General

3.1 This section provides details of the measures proposed to address the specific items identified in Paragraph 1.2.

3.2 As part of the site management process it is proposed that the Principal Contractor, in conjunction with the Client will provide regular up-dates to the neighbours regarding the progress of the construction works. In particular it is proposed that the Construction Programme, discussed in Section 2 is used to identify critical stages of the works which cause potential nuisance to neighbours. These typically include:

1 Noisy operations such as use of cranes;

2 Periods of increased traffic such as major deliveries;

3 Periods where there is a greater risk of mud on the roads such as the reduced earthworks excavation.

3.3 By raising these issues, together with the proposed mitigation measures with neighbours it is expected to achieve greater support and less adverse reaction to the works than by not involving them.

3.4 The method of neighbour engagement is yet to be finalised but is likely to include: letter drops to neighbours and a pre start meeting with local stakeholders. TBC.

3.5 Contact details for the Site Agent will be included on the hoarding should members of the public need to raise concerns of complain over activities being undertaken. Details of the client and also any Resident Engineer will also be included. Any complaints received will be relayed to the Local Planning authority together with any investigation undertaken and mitigation measures proposed or implemented. TBC

### Health and Safety Requirements

3.6 Prior to the commencement of the remedial works a Designers Risk Assessment and Pre-Tender Health and Safety Plan will be prepared outlining the Health and Safety issues by the CDM Co-ordinator (CDMc) .

3.7 The appointed Contractor for the works will be required to provide a Construction Stage Health and Safety Plan and comprehensive supporting Method Statement for the works.

3.8 As a general measure all working areas at the site will require fencing and appropriate signs to prevent access by unauthorised persons during the progression of deeper excavations or demolition works.

3.9 All personnel will be inducted prior to gaining access to the site by the Principal Contractor. They will be informed of the specific site rules which apply. In addition, all site staff operating without supervision by the Principal Contractor and all plant operators will be required to hold valid and appropriate CSCS cards.

3.10 All trade contractors are obliged to provide safety policies, plans and method statements and will be interviewed, where appropriate, prior to placement of order on relevant aspects of health and safety.

3.11 A 'tool box talk' will be provided to the Contractors and site staff by the Principal Contractor.

3.12 Banksmen and Traffic Marshalls will be used where appropriate.

**Site Security and Fencing**

3.13 Fencing and where necessary hording will be provided. In addition a 2.4m high palisade fence and 4m high acoustic fence are to be constructed around the site. This fencing will reduce potential risks associated with material migrating out of the site and also reduce noise impacts.

3.14 Temporary site accommodation will be constructed adjacent to the new access and will provide security to the site. This will be used to prevent members of the public accessing the site and also to check vehicles entering and leaving the site.

3.15 The site fencing will include the names and contact details of the Principal Contractor, Client and Engineer. Details of any decorative displays will be provided to the Local Planning Authority for approval in advance.

3.16 Details of any specific health and safety requirements such as the use of PPE and site requirements etc. will also be included on the hoarding.

**Site Logistics**

3.17 Access will be gained off Manchester Road. A plan showing the indicative locations of site offices etc. is presented as Drawing CRM.348.003.GE.D.001 or subsequent iterations. The locations of key features are discussed below:

1 Temporary site accommodation will be provided by the Principal Contractor comprising office accommodation, mess facilities and welfare facilities. The temporary accommodation is located adjacent to the new site access so that it can also be used for security.

2 Car parking for site workers and visitors will be provided adjacent to the temporary accommodation. The Contractor's Compound will be separated from the site by metal fencing.

3 Wheel wash facilities and if necessary a jet wash will be constructed adjacent to the site entrance in a lay-by area. Vehicles accessing the site will be required to use the wheel wash. Any vehicles showing substantial amounts of mud and dirt will also be required to be cleaned using the Jet Wash facility.

4 The proposed sequence of construction discussed in Section 2 should limit the generation of mud and dirt.

5 The Contractors Compound will be constructed on hardstanding comprising granular capping. Vehicles using the Contractors Compound will not enter the site and will not be required to use the wheel wash.

6 Roads will be regularly inspected and if mud is identified then a road sweeper will be used to remove the material.

3.18 Storage for materials will be within the area of the proposed car park. Materials will be stored within the building ready for the finishing trades once construction of the building has been undertaken. This will be further developed by the appointed Principal Contractor.

3.19 More vulnerable materials and equipment will be stored within the Contractors Compound.

3.20 A single point of access and egress is proposed. There will be separation on site of construction plant and pedestrian access from the Contractors Compound to the construction site.

3.21 A circular route is proposed for delivery vehicles to prevent vehicles crossing and to ensure that the wheel wash facilities are used. These will be kept separate from the working area of the plant. A specific plan will be developed in accordance with the proposed Traffic Management procedures discussed later in this document.

3.21 The working areas for plant and machinery on site will vary depending on the stage of the construction works. Suitable phasing plans will be determined by the Principal Contractor and the route for delivery vehicles will be amended as necessary.

**Welfare Facilities**

3.22 Location of the Temporary Accomodation is shown on Drawing CRM.348.003.GE.D.001 or subsequent iterations.

3.23 Temporary services will be provided to the site accommodation. This will be provided by a generator until a suitable mains supply can be installed. Supply will be 110 volt.

3.24 Water will be provided directly from the mains supply for use in the welfare facilities. Prior to connection to the mains any temporary accommodation may use self-contained supplies.

3.25 Temporary foul drainage will be connected to a tank until a new connection to the foul main can be constructed.

### Noise

3.26 No significant construction noise is anticipated at the site as there is no planned demolition or piling works.

### Dust and Debris

3.27 All site works are to be carried out under the following measures to monitor and control potential impacts on the offsite receptors. These measures are to include:

- Haul roads will be constructed with crushed stone during construction;
- Long term storage of materials will be undertaken in suitable silos or covered stockpiles to avoid dust generation;
- Sheeting of vehicles to mitigate the risks from soil transportation.
- Where necessary wetting down of sub-formation and stockpiles to mitigate dust generation.
- Use of wheel wash facilities discussed above.
- Use of dust-suppressing tools for all operations.
- Design controls for construction equipment and vehicles and use of appropriately designed vehicles for materials handling.
- Stockpiles of soils and materials will be located away from sensitive properties as far as is possible.
- Wind breaking netting, where appropriate, will be positioned around stockpiles.
- No burning of any materials will be undertaken on site.
- The site and surrounding area will be regularly inspected for dust deposits and mud with removal as necessary.

3.28 During progression of the works dust monitoring apparatus will be utilised in order to demonstrate that the works are not posing an unacceptable nuisance to offsite receptors.

### Plant and Equipment

3.29 All plant and machinery will be maintained in good working order and will be operated by competent and experienced staff.

3.30 Full details of the proposed plant will be provided by the Principal Contractor, in conjunction with the specialist sub-contractors but will include:

- Track mounted and wheeled excavators;
- Dumpers and road lorries;
- Mobile cranes;
- Ready mix concrete lorries;
- Generators;
- Hand held plant and equipment;
- Cherry picker and scaffolding for construction of the building structure;
- Compressor; and
- Fork lift.
- Road roller
- Compaction plant.

3.31 Conventional scaffolding, where required, will be independent with boarded lifts to suite the nature, location and type of operation. All scaffolding will be securely tied to the structure and will include suitable ladder access. Scaffolding will be provided, erected and maintained in-accordance with all current statutory regulations.

**Working Hours**

3.32 Construction works will be limited to the following hours unless otherwise agreed with the Local Planning Authority:

- 07.00 hrs to 18.00 hrs Monday to Friday;
- 08.00 hrs to 18.00 hrs on selected Saturday; and
- No working on Sunday or Bank Holidays.

3.33 There may be certain exceptional circumstances where work will be necessary outside the hours set out above. Should this occur consultation will be undertaken with the Council's Environmental Health Officer to ensure that any works do not result in adverse impact upon any neighbours. Any proposed changes to the working hours will be agreed in writing with the Local Planning Authority beforehand.

**Waste Minimisation**

3.34 The proposed construction methodology discussed in Section 2 minimises the development of waste and maximises the use of recycled material. Additional measures are to be incorporated in to the design of the building to minimise the generation of construction waste. These are discussed within the plan for recycling/disposing of waste resulting from demolition and construction works, prepared separately.

**Environmental Procedures**

3.35 Measures to address environmental and health and safety issues will be provided by the Contractor as part of the Construction Stage Health and Safety Plan and will include the following:

- Spill response kits are to be available on site in the event that fuel or oil is during the construction works.
- Where groundwater is removed as part of the sub structure and infrastructure works the water is to be treated prior to discharge under a trade effluent discharge consent. Treatment will include removal of sediment and may also require additional treatment such as passing it through an oil/water separator.
- Should significantly contaminated soil be stockpiled with the result that hydrocarbon contaminated leachate is being mobilised, then an impermeable bund shall be constructed around the stock pile to collect the leachate and allow it to be pumped off.
- Suitable bunding will be provided to any areas used to store chemicals, oils and fuels.
- Materials and waste will not be stored adjacent to any surface water courses or drains.

**Traffic Management**

3.36 The works will comply with Regulation 36 (Traffic Routes) and Regulation 27 (Vehicles) of CDM 2007 by providing a traffic management plan which will be displayed in the site office. The objectives of the plan will ensure:

- The safe and efficient working environment for all staff, visitors and contractors when on site;
- To ensure visiting traffic and deliveries arriving and leaving site can operate within definitive areas;
- Abnormal loads to be pre-booked;
- To ensure that any contractors on site can operate their workforce, plant and equipment in a safe and manageable environment.

3.37 The plan will be developed by the Principal Contractor and will detail specific measures, including those outlined in the Site Locations Section and will include:

- Speed restrictions;
- Traffic flow directions;
- Road crossing points;
- Turning circles;
- Wheel wash facilities; Pedestrian access and egress points;
- Site offices and compounds;

- Materials storage;
- Emergency assembly points.

3.38 The site entrance will be clearly signed to raise driver's awareness to the site entrance. The site will have adequate signage in accordance with Chapter 8 of the Traffic Signs Manual.

3.39 A speed limit of 5mph will be applied on site vehicles when operating within the works. All driver's will be notified of the limit with speed signs clearly displayed.

3.49 To mitigate risks associated with plant and vehicles the following will also be used:

- Pedestrian barriers at site entrance;
- Temporary crossings to direct pedestrians across road way away from conflict areas;
- Banksmen and Traffic Marshalls;

# 4.0 OPERATIONAL PLANT AND EQUIPMENT

### General

4.1 The proposed operational plant and equipment installed within the facility will include:

- 10 X Battery Containers
- 5 X Inverter transformers
- 1 DNO substation
- 2.4m high security fence
- Temporary construction compound

### Construction

4.2 The plant and equipment used for the operational stage of the facility will be delivered to site either pre-fabricated or as modular units for assembly on site. As such the delivery of the plant and equipment will be by road vehicle utilising the site access as discussed in Section 3 of this document.

4.3 Plant and equipment will be unloaded and moved in to position using either fork lift trucks or a crane. Final assembly will be with hand and power tools.

4.4 The method of installing and assembling the plant and equipment will be the same as used for the construction works discussed in Sections 2 and 3.

4.5 Working hours outlined in Section 3 will be utilised.

4.6 Plant and equipment will be delivered using a 'just in time' approach where feasible to negate the need for significant storage.

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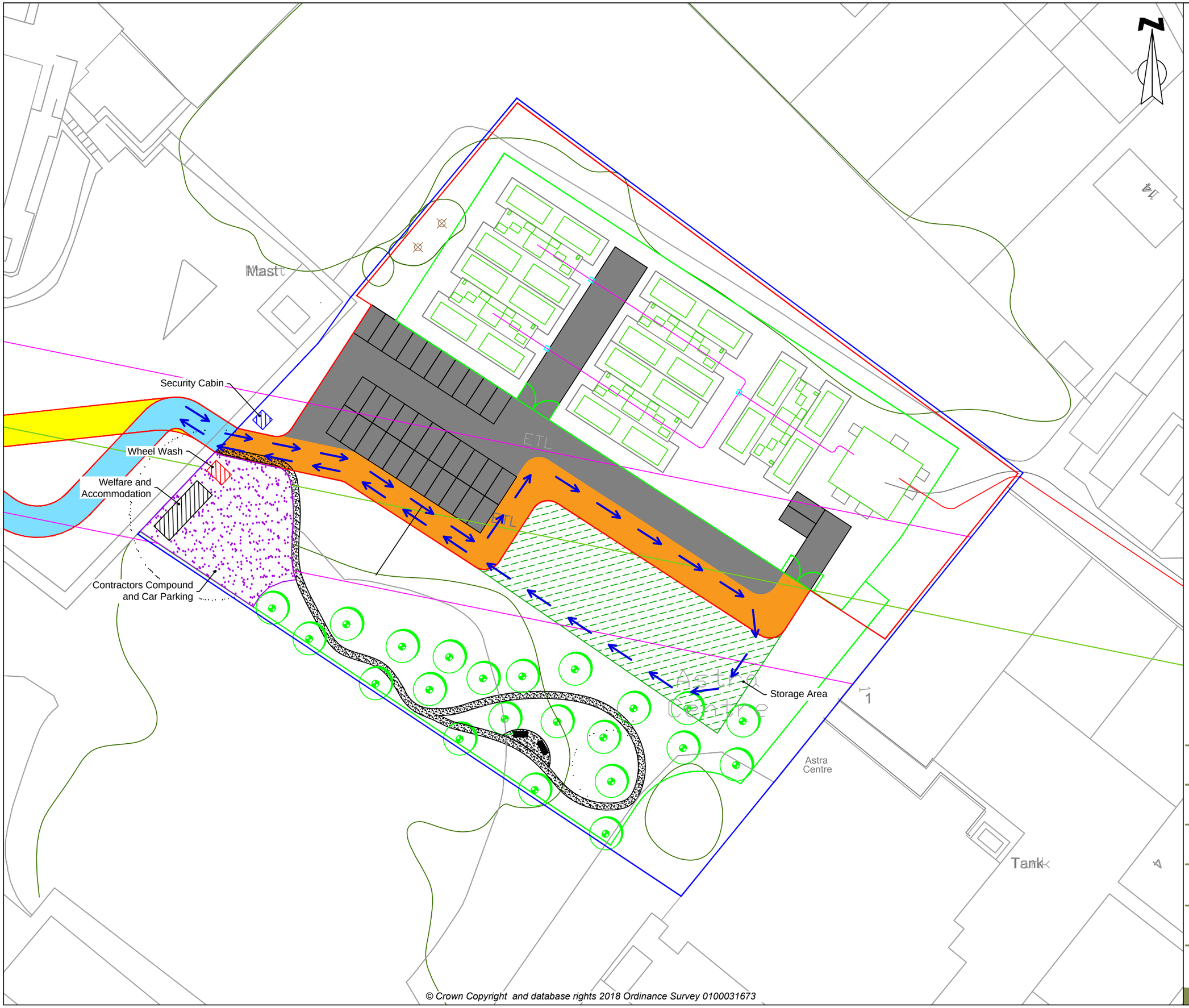


Key

- Site Boundary
- Wheel Wash
- Security Cabin
- Welfare and Accommodation
- Storage Area
- Contractors Compound and Car Parking
- Vehicle Route

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enzygo environmental consultants
Samuel House, 5 Fox Valley Way, Stocksbridge, Sheffield, S36 2AA

CLIENT: Enso Energy Ltd

SCALE: 1:500@A3

PROJECT REF: CRM.348.003

DRAWN: MG

CHECKED: SR

DATE: Oct 2020

PROJECT: Gipsy Lane, Rochdale

TITLE: Logistics Plan

DRAWING NO: CRM.348.003.GE.D.001

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ORIGINAL DRAWING SIZE - A1

N

W

E

S

W19 Mast

32 Car Parking Spaces

4No. BET NIG xhs14

3No. ACE CAM xhs14

5No. Pop tre xhs14

4No. ACE CAM xhs14

2No. BET NIG xhs14

4No. ALN GLU xhs14

HV

ELE

ETL

Astra Centre

Tank

0 4m 8m 12m 16m 20m 24m 28m 32m 36m 40m

SCALE 1:200

LANDLORDS PROPERTY

PROPSED SITE

DNO ACCESS / MAINTENANCE

CAR PARKING SURFACE /ACCESS

2.4m HIGH PALISADE FENCE

4m CONCRETE ACOUSTIC FENCE

GAS PROPSED GAS PIPE GAS

ELE HV 33kV CONNECTION ELE HV

TEMP CONSTRUCION COMPOUND

33kV CABLING

4MW BATTERY STORAGE SYSTEM (1x 4.2MW TX & 6x INVERTERS WITH 4x 1MW BATTERY CONTAINER)

DNO / CUSTOMER SUBSTATION

| | | | | |
|---|---|---|---|---|
| P10 | AMENDED FENCE LINE BACK TO PALISADE | | | |
| | RN | MH | CN | 10/10/2019 |
| P9 | ADDED TREES / AMENDED FENCE LINE TO WOODEN HYBRID | | | |
| | RN | MH | CN | 01/10/2019 |
| P8 | AMENDED FRONT FENCELINE FROM PALISADE TO WOODEN ACOUSTIC | | | |
| | RN | MH | CN | 01/10/2019 |
| P7 | AMENDED BACK, LEFT AND RIGHT FENCE TO CONCRETE ACOUSTIC TO REDUCE SOUND LEVELS | | | |
| | RN | MH | CN | 26/09/2019 |
| P6 | AMENDED CAR PARKING AREA | | | |
| | RN | MH | CN | 20/09/2019 |
| P5 | REMOVED LANDSCAPING EASEMENT | | | |
| | RN | MH | CN | 19/09/2019 |
| P4 | AMENDED RED LINE / REMOVED YELLOW CONSTRUCTION AREA & TREE CENTER POINTS / CHANGED EXTERNAL WOODEN FENCE TO PALISADE | | | |
| | RN | MH | CN | 19/09/2019 |
| P3 | AMENDED CAR PARK LOCATION NORTH WEST / REMOVED TREES NORTH WEST OF ACCESS | | | |
| | RN | MH | CN | 19/09/2019 |
| P2 | AMENDED RED LINE TO MATCH BLUE ROAD / AMENDED PUBLIC PATHWAY | | | |
| | RN | MH | CN | 17/09/2019 |
| P1 | FIRST ISSUE | | | |
| | RN | MH | CN | 17/09/2019 |
| VERSION | DRAWN BY | CHECKED BY | APPROVED BY | DATE |

DRAWING STATUS: FOR TENDER

Arlington Energy Ltd

CLIENT: ARLINGTON ENERGY

CLIENT PROJECT REF.: MAN006

SMITH brothers CONTRACTING LIMITED

**Smith Brothers (Contracting) Limited**
Unit G8, Navigation Close, Lowfields Business Park, Elland, West Yorkshire, HX5 9HB

SITE ADDRESS: GIPSY LANE ROCHDALE OL11 3HA

DRAWING TITLE: GIPSY LANE PLANNING ARRANGEMENT 1:200

| DNO | VOLTAGE CONNECTION | SMITH BROTHERS REFERENCE NUMBER |
|---|---|---|
| ENWL | 33kV | 21225 |

| SCALE | PROJECTION | DRAWN BY |
|---|---|---|
| 1:200 Original Size A1 | N/A | RN |

DRAWING NUMBER: 21225-0200

REVISION: P10

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ORIGINAL DRAWING SIZE - A1

N

W E

S

Shelter

Kingsland
(Annexe)

Roylelands
Bungalows

LAWNSWOOD

GIPSY LANE

133.5m

135.9m

128.0m

The
Royal Toby

Club

El Sub Sta

Castleton
Transforming
Station

ESS

Tank

Astra
Centre

El
Sub Sta

W19
Mast

ETL

ELE HV

32 Car Parking Spaces

3No. ACE CAM xhs14

4No. BET NIG xhs14

5No. Pop tre xhs14

4No. ACE CAM xhs14

2No. BET NIG xhs14

4No. ALN GLU xhs14

0 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m

SCALE 1:500

LANDLORDS PROPERTY

PROPSED SITE

DNO ACCESS / MAINTENANCE

CAR PARKING SURFACE /ACCESS

2.4m HIGH PALISADE FENCE

4m CONCRETE ACOUSTIC FENCE

GAS PROPSED GAS PIPE GAS GAS

ELE HV 33kV CONNECTION ELE HV

TEMP CONSTRUCION COMPOUND

33kV CABLING

4MW BATTERY STORAGE SYSTEM (1x 4.2MW TX & 6x INVERTERS WITH 4x 1MW BATTERY CONTAINER)

DNO / CUSTOMER SUBSTATION

| VERSION | DRAWN BY | CHECKED BY | APPROVED BY | DATE |
|---|---|---|---|---|
| P10 | AMENDED FENCE LINE BACK TO PALISADE | | | |
| | RN | MH | CN | 10/10/2019 |
| P9 | ADDED TREES / AMENDED FENCE LINE TO WOODEN HYBRID | | | |
| | RN | MH | CN | 01/10/2019 |
| P8 | AMENDED FRONT FENCELINE FROM PALISADE TO WOODEN ACOUSTIC | | | |
| | RN | MH | CN | 01/10/2019 |
| P7 | AMENDED BACK, LEFT AND RIGHT FENCE TO CONCRETE ACOUSTIC TO REDUCE SOUND LEVELS | | | |
| | RN | MH | CN | 26/09/2019 |
| P6 | AMENDED CAR PARKING AREA | | | |
| | RN | MH | CN | 20/09/2019 |
| P5 | REMOVED LANDSCAPING EASEMENT | | | |
| | RN | MH | CN | 19/09/2019 |
| P4 | AMENDED RED LINE / REMOVED YELLOW CONSTRUCTION AREA & TREE CENTER POINTS / CHANGED EXTERNAL WOODEN FENCE TO PALISADE | | | |
| | RN | MH | CN | 19/09/2019 |
| P3 | AMENDED CAR PARK LOCATION NORTH WEST / REMOVED TREES NORTH WEST OF ACCESS | | | |
| | RN | MH | CN | 19/09/2019 |
| P2 | AMENDED RED LINE TO MATCH BLUE ROAD / AMENDED PUBLIC PATHWAY | | | |
| | RN | MH | CN | 17/09/2019 |
| P1 | FIRST ISSUE | | | |
| | RN | MH | CN | 17/09/2019 |

DRAWING STATUS
FOR TENDER

Arlington Energy Ltd

CLIENT
ARLINGTON ENERGY

CLIENT PROJECT REF.
MAN006

SMITH brothers
CONTRACTING LIMITED

**Smith Brothers (Contracting) Limited**
Unit G8, Navigation Close, Lowfields Business Park, Elland, West Yorkshire, HX5 9HB

SITE ADDRESS
GIPSY LANE
ROCHDALE
OL11 3HA

DRAWING TITLE
GIPSY LANE
PLANNING ARRANGEMENT
1:500

DNO
ENWL

VOLTAGE CONNECTION
33kV

SMITH BROTHERS REFERENCE NUMBER
21225

SCALE
1:500
Original Size A1

PROJECTION
N/A

DRAWN BY
RN

DRAWING NUMBER
21225-0201

REVISION
P10

**Outline Programme**



**Enzygo specialise in a wide range of tec**

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**Waste and Mineral Planning**
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**Landscape Architecture**
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**BRISTOL OFFICE**
The Byre
Woodend Lane
Cromhall
Gloucestershire GL12 8AA
Tel: 01454 269 237

**SHEFFIELD OFFICE**
Samuel House
5 Fox Valley Way
Stocksbridge
Sheffield S36 2AA
Tel: 0114 321 5151

**MANCHESTER OFFICE**
First Floor
3 Hardman Square
Spinningfields
Manchester M3 3EB
Tel: 0161 413 6444


Please visit our website for more information.

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