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DEMOLITION MANAGEMENT PLAN

UPSS Demolition and Removal Works

60 Hare Street, Casino, NSW 2470

ENV240318

For:

North Coast Petroleum

By:

ENV Services

Date:

14/05/2024

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SCOPE OF ENGAGEMENT AND LIMITATIONS

This report has been prepared by ENV Services Pty Ltd (ENV) at the request of North Coast Petroleum for the purpose of the proposed UPSS Demolition and Removal Works. This document can be relied upon by the Richmond Valley Council to support the Development Approval for the works. No other parties may rely on the contents of this report for any purposes except those stated.

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LIST OF ACRONYMS

Below is a list of commonly used acronyms in this report:

BTEXN – Benzene, Toluene, Ethyl-benzene Xylenes and Naphthalene

COPC – Chemical of Potential Concern

DMP – Demolition Management Plan

ENV – ENV Solutions / ENV Services / ENV Remediation

EPA – (NSW) Environment Protection Authority

SWMS – Environmental Safe Work Method Statements

HSEQ – Health Safety Environment and Quality

LEL – Lower Explosive Limit

NATA - National Association of Testing Authorities

PAH's – Polycyclic Aromatic Hydrocarbons

UPSS – Underground Petroleum Storage System

UST – Underground Storage Tank

ENM – Excavated Natural Material

AST – Aboveground Storage Tank

1 INTRODUCTION

ENV Services Pty Ltd (ENV) has been engaged by North Coast Petroleum and Transport (NCPT) to prepare a Demolition Management Plan for the removal of existing underground fuel tanks and the installation of new fuel tanks. This Demolition Management Plan (DMP) has been developed to provide the necessary procedures for the demolition of the existing Underground Petroleum Storage System (UPSS) and installation of new Underground Storage Tanks (USTs) at 60 Hare Street, Casino, NSW (hereafter referred to as the 'site').

1.1 Objective

The objective of this DMP is to provide an outline and methodology for the works associated with the demolition and removal of the existing UPSS infrastructure at the site, such that they can be conducted in a safe manner which is protective of human health and the environment and meets statutory and regulatory requirements.

2 SITE LOCATION

The site is located on the southwestern periphery of Casino with the site address being 60 Hare Street, Casino, and legal description Lot 10 DP848626. The surrounding land uses from the subject site are summarised as follows:

- North – Caravan Park
- West – Residential Uses
- East – Residential
- South – Vacant land broken by roadway.

Figure 1: Site location.

2.1 General Description of the Site

The subject site is an existing fuel station being generally level and has a land area of approximately 1,090m^2. The site is improved with a shopfront, canopy, three dispensing bowsers, several USTs and has concrete and bitumen hardstand.

3 SCOPE OF WORKS

The scope of work for this project includes the removal of the existing aboveground storage tank (AST), three USTs, associated fuel infrastructure and existing canopy. As part of the demolition, the following tanks are to be removed:

- 10,000L Diesel AST
- 18,000L ULP UST
- 4,500L Diesel UST
- 4,500L PULP UST

The site infrastructure is to be upgraded with the following fuel infrastructure:

- 20,000L Treatment System Tank
- 15,000L PULP UST
- 35,000L Diesel UST
- 20,000L ULP UST
- Four (4) fuel dispensing bowsers.

In addition to the fuel infrastructure, the awning is to be upgraded and a new fuel pricing sign is to be erected.

Figures 1 & 2, Appendix A and Appendix B illustrate the proposed works.

4 DEMOLITION WORKS

4.1 UPSS Removal Compliance

NCPT (or their subcontractor/contractor) shall perform the works in accordance with AS4976-2008 '*The Removal & Disposal of Underground Petroleum Storage Tanks*' and the Australian Institute of Petroleum Code of Practice CP22 – 1944 '*The Removal & Disposal of Underground Petroleum Storage Tanks*'.

4.2 Flammable Liquids & Explosive Vapours

NCPT shall display signage relating to the potential hazards of UPSS removal at suitable locations within the site. The Site Supervisor will oversee and implement all required control measures to be undertaken during the UPSS removal works at the daily pre-start meetings/toolbox talks and shall perform atmospheric monitoring activities using a calibrated Lower Explosive Level (LEL) meter to ensure the site is clear of potentially explosive vapour prior to works beginning.

4.3 Fuel Dispensing Pumps

NCPT personnel shall ensure that the electrical supply to the fuel dispensing pumps have been disconnected and any residual product in the filling hoses have been drained back to the UST's prior to its removal. The fixings holding the fuel dispensing pumps shall be unfastened where practicable, otherwise they will be mechanically removed with the excavator.

4.4 Excavation

Prior to excavation work, the concrete will be cut using a concrete road saw or concrete hammer to prepare and delineate the excavation area. The hammer attachment and concrete will be sprayed with water during operations to suppress dust and minimise the potential of sparks. The Site Supervisor shall ensure that the following control measures are implemented to minimise the possibility of excavation related hazards:

- The excavation/s within the site will be battered or benched where site conditions permit.
- The excavation/s within the site will be barricaded when access is not required.
- Signage will be installed to notify site personnel of the excavation location.
- Excavated material will be stockpiled a safe distance from the excavation.

The material excavated from around the UST shall be loaded directly into a truck for removal. If stockpiling occurs, material is to be placed on plastic sheeting and bunded. At the completion of each day, the stockpile is to be covered with plastic sheeting to prevent rainfall infiltration and / or soil migration. Stockpiles are to managed in accordance with the NSW Blue Book Managing Urban Stormwater: Soils and Construction – Volume 1. Soil is to be disposed to a suitably licenced facility following waste classification by an appropriately experienced environmental professional.

4.5 UPSS Removal

All USTs will be confirmed as empty prior to lifting or demolition. Once this is confirmed, the USTs will be either demolished in-situ by the excavator or (if lug points are visible) lifted out of the excavation in one piece using lifting chains / slings. The UST will be loaded directly into a skip bin for disposal or transported intact offsite on the back of a truck.

5 ENVIRONMENTAL MANAGEMENT

5.1 Waste Management and Material Storage

Waste minimisation and management measures are summarised in Table 1.

Table 1: Waste Management

Aspect	Details
Management Measures	General: • Waste generation is to be minimised, with materials used effectively and re-used where possible. • Recycled waste is to be placed in separate bins or skips kept securely within the site and disposed of at a suitable resource recovery centre at the end of demolition works. • Work sites are to be kept clean and tidy with all rubbish placed in bins or skips. Footpaths and site hardstands are to be maintained clear of rubbish and building materials (where possible). • Bins and skips are to be regularly emptied to prevent spillage, and all waste disposed of at an appropriately licensed facility. • All wastes are to be handled and disposed of in accordance with the requirements of the Work Cover Authority. Documentary evidence that this condition has been met must be provided to the client, if applicable. • The material excavated through the removal of the UST will be either directly loaded into trucks for off-site removal or managed in accordance with section 4.4. • Soil will be loaded out and disposed of to an appropriately licensed landfill. • Machinery is to be stored inside the site. The site is to be locked after the completion of works (daily) and access to the site is to be restricted to authorized personnel only.

5.2 Demolition Traffic Management

Construction traffic management measures are summarised in Table 2.

Table 2: Construction Traffic Management

Aspect	Details
Management Measures	• All vehicles must enter and exit the site in a forward direction. • Ensure there is suitable space to allow all vehicles entering the site to manoeuvre so that they exit in a forward direction. Spotters will be utilised within the site to ensure these actions are performed safely. • All loading and unloading is to be undertaken on-site. • Construction vehicles are to be parked in nominated areas only, within site compound.

5.3 Air Quality Management

Air quality management measures are summarised in Table 3.

Table 3: Air Quality Management

Aspect	Details
Management Measures	• All machinery is to be within the required service window (as recommended by the manufacturer(s)), to ensure proper maintenance and to ensure all equipment is in good working condition. • Dust suppression methods to be applied as required (e.g., watering and/or covering of exposed areas, stockpiles etc.). • Temporary stockpiles are to be less than 2m in height and covered (where possible). • Dust generating activities are not to be carried out during unsuitable weather conditions (i.e., strong winds). • Vehicles transporting waste or other materials that may produce odours or dust are to be covered during transportation. • Stationary vehicles and equipment not in use are to be switched off. • Disturbed surfaces are to be reinstated and stabilised as soon as possible upon completion of earthworks. • All workers have a 'duty of care' in managing dust generating activities and minimising airborne dust.

5.4 Noise and Vibration Management

Noise and vibration management measures are summarised in Table 4.

Table 4: Noise and Vibration Management

Aspect	Details
Management Measures	• Noise and vibration emissions must meet the NSW Interim Construction Noise Guideline requirements. • Use of noisy plant over an extended period of time is to be avoided where possible. • Equipment to be operated in a manner that does not generate unnecessary noise (e.g. avoiding excessive revving, or avoiding dragging objects, or dropping objects from heights). • The reversing of vehicles is to be minimised where possible to alleviate the annoyance of beeping reverse alarms. • All machines are to be in good working condition. • Machinery and equipment not in use are to be turned off. • In the event of serious and persistent noise complaints, noise monitoring shall be undertaken, and noise management measures reviewed. • If piling is to occur, undertake dilapidation assessment of the neighbouring residential properties before and after works.

5.5 Stormwater Management, Erosion and Sediment Control

Stormwater, erosion, and sediment management measures, including soil stabilisation measures, are summarised in Table 5 below.

Table 5: Stormwater, Erosion and Sediment Management

Aspect	Details
Management Measures	• Sediment and erosion controls are to be implemented in accordance with the NSW Blue Book. • Sediment controls will be installed around drains and down gradient site boundaries where surface water runoff could potentially leave site. All controls are to be applied before the commencement of any soil disturbance activities. • Sediment control measures must be maintained at all times until the site has been stabilised by a permanent hard surface cover. • Site access will be minimised to two access points where possible, with all vehicles using the designated site access to enter and leave the site. • Entry/Exit access points onto the site are hardstand and must be maintained as hardstand. • The Entry/Exit point and offsite roadways are to be swept to minimise dust tracking (if required at completion of works). • Sediment from stockpiles will be contained with the use of sandbags or coir logs. • Stockpiles must be covered to prevent rainfall infiltration at the completion of each days' activities.

	• Topsoil and or fill stockpiles are to be less than 2m in height with slopes no steeper than 2:1. • Where possible, soil disturbing activities will be scheduled to avoid wet weather. • Works must cease if weather conditions are unsuitable, such as during heavy rain or strong winds.

5.6 Contamination Management

Contamination management measures are summarised in Table 6 below.

Table 6: Contamination Management

Aspect	Details
Management Measures	• Construction materials imported to the site shall be free from contaminants (i.e., meet the NSW Excavated Natural Material (ENM) Order (2014) criteria, or be certified Virgin Excavated Natural Material (VENM)). • If any contaminated material is encountered, soils are to be chemically classified and a waste classification report be generated by a suitably qualified environmental professional. • Once classified, the spoil must be disposed of to a landfill facility which is licensed to accept the waste.

6 INCIDENT RESPONSE PROCUDURE

6.1 Spill Response Procedure

The following incident response procedure shall be implemented in the event a chemical spill or any other liquid spill:

1. **Call 000 if the incident presents an immediate threat to human health or property. Immediately notify all workers in the area and evacuate if necessary.**
2. If safe to do so, take immediate measures to control or stop any release and prevent the spill from entering into drains and stormwater system.
3. As soon as practicable, notify the Site Manager, who will notify relevant authorities (if required).
4. Ensure appropriate personal protective equipment (PPE) is worn by personnel involved in the containment and clean-up of the spill. Avoid inhalation of vapours or dust.
5. Contain and clean up spill with absorbent material such as a spill kit, clean rags, or paper towel.
6. Collect and seal used spill containment materials in properly labelled containers or drums for disposal.
7. Dispose of waste materials in accordance with legislative requirements. This may require communication with nearby landfills to confirm they can accept the waste materials.
8. Record incident.
9. Evaluate the overall response and share lessons learned with workers.
10. Replace equipment and supplies (e.g., spill kits) as necessary.

7 REFERENCES

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National Environment Protection Council (NEPC), 2013. *National Environment Protection (Assessment of Site Contamination) Measure (NEPM) 1999* (as amended 2013). Commonwealth of Australia: http://nepc.gov.au/nepms/assessment-site-contamination

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Standards Australia, 2008. AS4976-2008 '*The Removal & Disposal of Underground Petroleum Storage Tanks*' and the Australian Institute of Petroleum Code of Practice CP22 – 1944 '*The Removal & Disposal of Underground Petroleum Storage Tanks*'

Standards Australia, 1998b. *Water Quality — Sampling — Guidance on the Design of Sampling Programs, Sampling Techniques and the Preservation and Handling of Samples.*

APPENDIX A

Figures

Legend

- Site boundary
- Existing 18,000L ULP UST to be Removed
- Existing 4,500L Diesel UST to be Removed
- Existing 4,500L PULP UST to be Removed
- Existing 10,000L Diesel AST to be Removed

Figure 1 – Existing UPSS Infrastructure to be Removed
60 Hare Street, Casino, NSW

Project: 240318
Client: North Coast Petroleum
Date Drawn: 24/04/2024

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Image source: SixMaps

Legend

- Site boundary
- Proposed 20KL ULP Tank
- Proposed 35KL Diesel Tank
- Proposed 15KL PULP Tank
- Proposed 20KL STS Tank
- Proposed Bowser

Figure 2 – Proposed UPSS Infrastructure
60 Hare Street, Casino, NSW

Project: 240318
Client: North Coast Petroleum
Date Drawn: 24/04/2024

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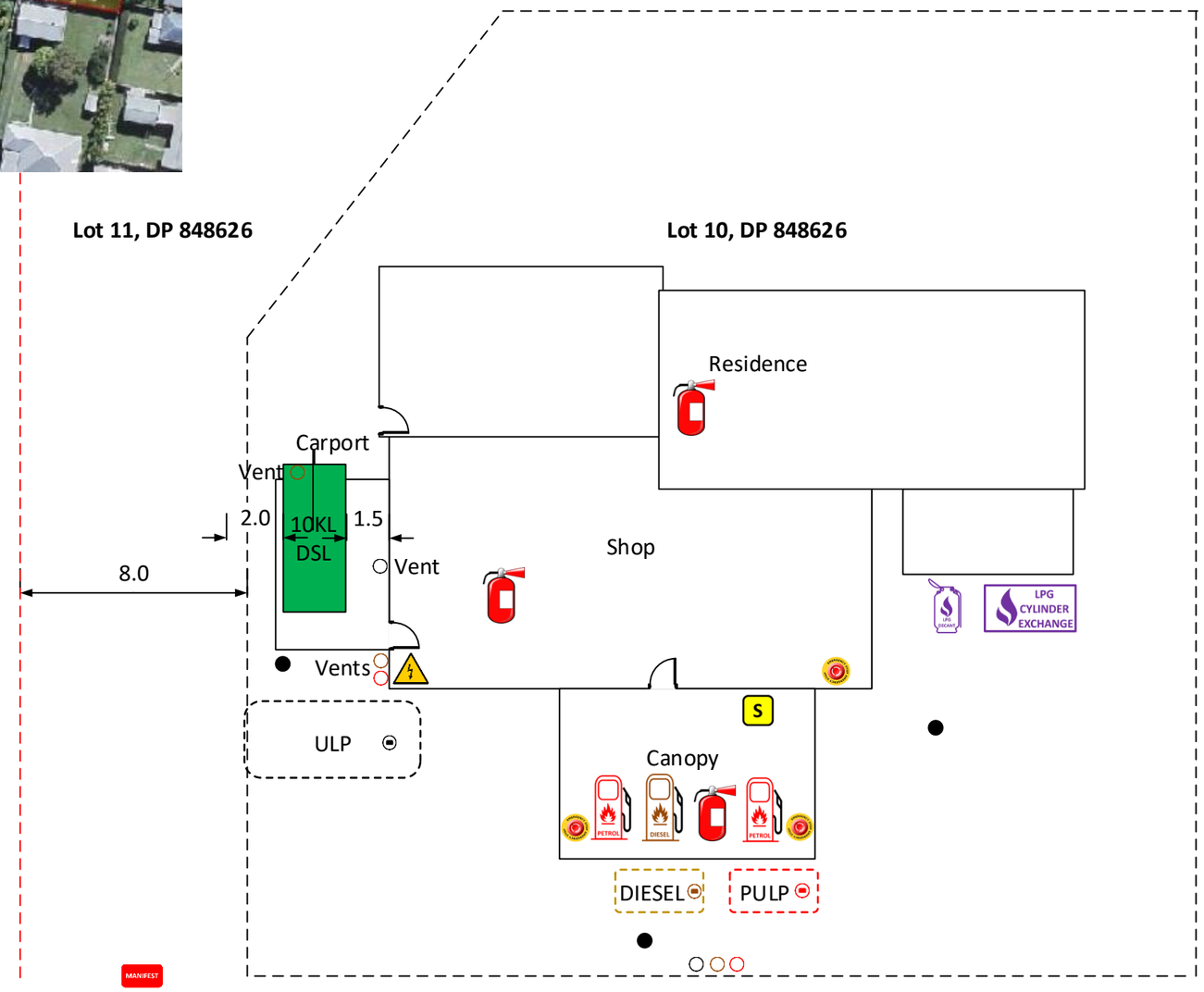
Image source: SixMaps

APPENDIX B

Site Plans

Caravan Park



Hare Street

NORTH COAST PETROLEUM

Site Plan

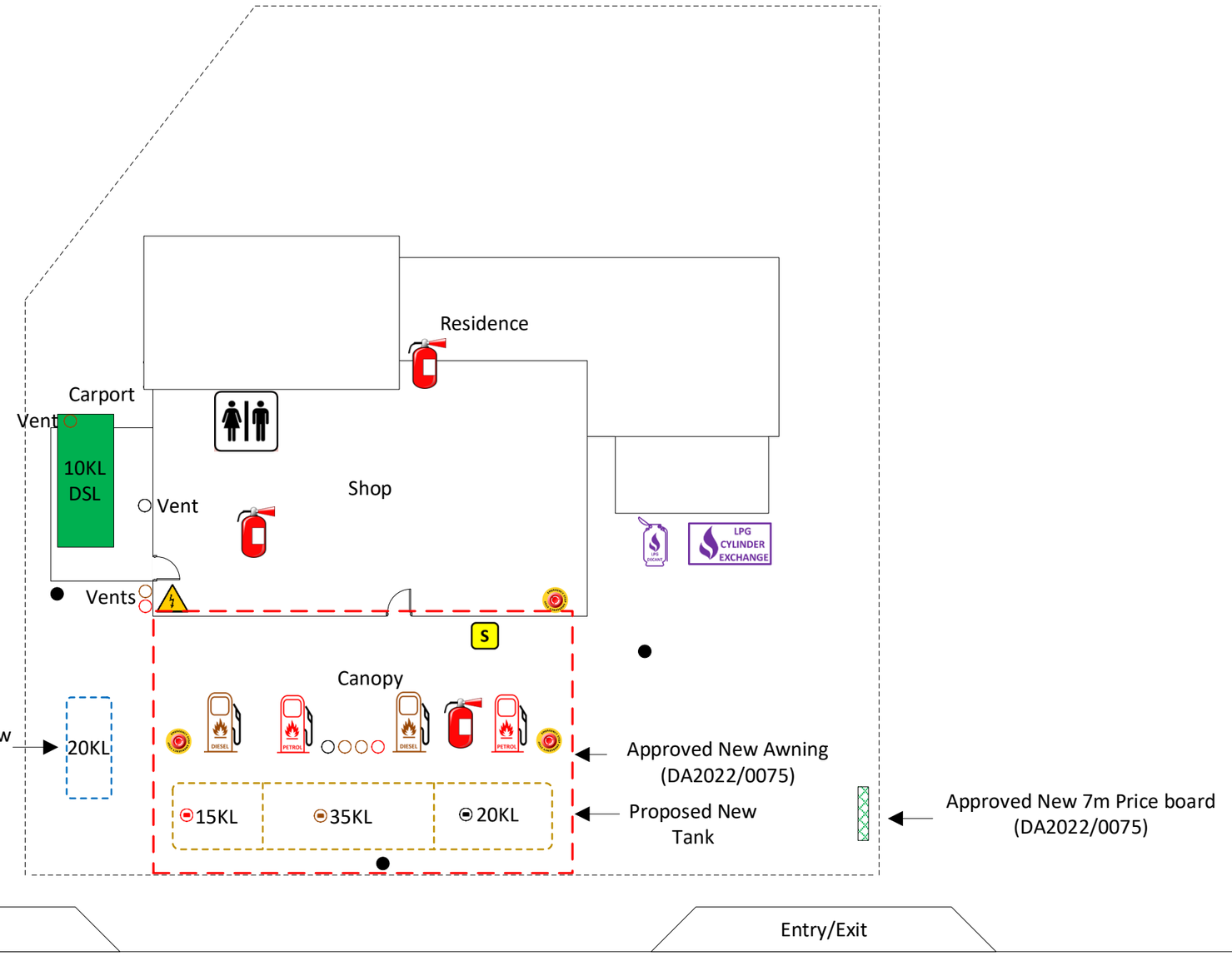
Key:
Tank 1: 18 KL ULP UST
Tank 2: 4.5 KL DIESEL UST
Tank 3: 4.5 KL PULP 95 UST

- Monitoring Well
- Spill Kit
- 9kg Extinguisher
- Emergency Stop
- Mains Power
- Manifest Box
- Remote Fill
- Dip Points

Drawn: JC
Date: 09/07/2020
Scale: 1:200 @ A3
Sheet 1 of 1

Project: Liberty Browns Caravan Park, 58-60 Hare St, Casino, NSW, 2470

Caravan Park



Entry/Exit

Entry/Exit

Hare Street

NORTH COAST PETROLEUM

Conceptual Site Plan

Key:
Tank 1: 15 KL PULP UST
Tank 2: 35 KL DIESEL UST
Tank 3: 20 KL ULP UST

- Monitoring Well
- Spill Kit
- 9kg Extinguisher
- Emergency Stop
- Mains Power
- Manifest Box
- Remote Fill
- Dip Points

Drawn: JC
Date: 10/11/2023
Scale: 1:200 @ A3
Sheet 1 of 1

Project: Liberty Browns Caravan Park, 58-60 Hare St, Casino, NSW, 2470