



**Gladstone Ports Corporation**  
*Growth, Prosperity, Community.*

**DECISION NOTICE – DA 2015/14**

Application:	<b>Port Application (Operational Works) for Vehicle and Cargo Consolidation Facility</b>
Applicant Name and address:	<b>Fiona Marks QGC Pty Limited GPO Box 3107 BRISBANE QLD 4001</b>
Owner:	<b>Gladstone Ports Corporation Limited</b>
Subject Land:	<b>Part of Lot 211 on SP174655</b>
Location:	<b>Alf O'Rourke Drive, Gladstone</b>
Present Zoning	<b>Strategic Port Land</b>
Proposed Use:	<b>Vehicle and cargo consolidation facility</b>
Application Received:	<b>17 November 2015</b>

This development application was assessed on: **30 November 2015**

**1. Details Of The Approval**

**Development Permit:**

Vehicle and cargo consolidation facility.

**2. Assessment Manager's Conditions**

In general the facilities are in compliance with the requirements of Gladstone Ports Corporation. It is to be noted that the following conditions will be complied with in the granting of this Development Application.

**GENERAL**

1. The proposed development must be carried out generally in accordance with the drawings, plans and documents as lodged with the application except where modified by conditions of this permit.
2. Where additional "approval" is required under these conditions by the Gladstone Ports Corporation for drawings or documentation, the proponent must submit for review, amend to the satisfaction of, and obtain written acceptance from the Gladstone Ports Corporation. Only in this manner can compliance with the condition be achieved.

3. The proponent must at its cost and expense, keep and maintain the subject area, including existing services, in a state that is satisfactory to the Port.

#### **ENGINEERING**

4. All gates along Alf O'Rourke Drive are to be clearly signed.
5. All site entries and exists onto Alf O'Rourke Drive are to be line marked, signed and sealed.
6. The proponent is to notify GPC of damage caused to any port roads as a result of this activity. Depending upon the nature and location of the damage, GPC may undertake the repairs at the expense of the proponent or direct the proponent to undertake the repairs immediately at their expense.
7. No loose materials, sediment or mud are to be tracked onto Alf O'Rourke Drive.
8. Where possible, landscaping of three (3) metres in width is to be provided and maintained along the property road frontage to Alf O'Rourke Drive.

#### **ENVIRONMENT**

9. Gladstone Ports Corporations Environmental Hotline (4976 1255) is to be notified as soon as practicable after becoming aware of any non-compliance with conditions of this approval.
10. Where there is any conflict between Gladstone Ports Corporation's conditions of development and the Site Environmental Management Plan, conditions imposed by Gladstone Ports Corporation shall prevail.
11. Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any external storm water drainage system, roadside gutter or waters. To remove any doubt this condition does not apply to hosing, sweeping, etc. of areas and oily materials that drain to an oily-water management system.
12. Spill kits are to be located where any loading/unloading of fuel/chemicals/sewage and greywater occurs. All personnel involved with this activity are to be trained and competent in the proper use of these spill kit.

### **3. The Approved Plans –**

The approved plans and/or documents forming part of this decision notice are listed in the following table:

<b>Document Reference</b>	<b>Plan / Document Name</b>	<b>Date</b>
Email 24/11/2015	AOR Site Environmental Management Plan	11/2015

**4. When the Development Approval Takes Effect –**

If the application is approved, or approved subject to conditions, the decision notice, or if a negotiated decision notice is given, the negotiated decision notice, is taken to be the development approval and has effect on the date that the notice is signed by an authorised delegate of the Gladstone Ports Corporation.

**5. When Approval Lapses if Development Not Started**

The relevant periods stated below apply to each aspect of development in this approval, as outlined below:-

- 4 years

**6. Other Necessary Development Approvals**

Listed below are the other development permits that are necessary to allow the development to be carried out:

- Nil

**7. Appeal Rights**

No legislated appeal rights are afforded with this decision notice as the application was not made under the provisions of The Sustainable Planning Act 2009.

If you have concerns or queries regarding the conditions, please contact GPC's Planning Officer.

**8. Assessment Manager Certification**



**Sarah Hunter**  
**Senior Planning Officer**  
30 November 2015

## ATTACHMENT 2 SITE ENVIRONMENTAL PLAN

**APPROVED**

### 1. Introduction

#### 1.1. Site details

The Alf O'Rourke Consolidating Facility (AOCF) is located approximately 250 metres north of the Hanson Road turnaround and 5.8 kilometres west from Auckland Point Area 1 – Port Central and Logistics Centre. AOCF was approved and built under a State Development MCU approval (DGBN10/111) prior to the construction phase of the QCLNG Facility on Curtis Island. The site is bounded by Intake Canal to the south, RG Tanna railway line to the west (although located within the subject lot and plan), and Alf O'Rourke Drive to the east. An existing electricity easement borders the site to the west. RG Tanna Coal Terminal land lies to the north of the site

The site is located on reclaimed land and was originally an ash pond settling area for the NRG Power Station in the early 1970s. The original earthworks were carried out by GPC to achieve a site that drains freely and was suitable to handle the vehicles travelling on it.

The total area of Lot 211 on SP174655 is approximately 45.6 hectares. The footprint of the AOCF is approximately 11.38 hectares and development of the site is as per Exhibit 2. The nearest sensitive receivers to AOCF are commercial buildings located approximately 400 metres from the site. There are no residential receivers located near the site.

Land surrounding the site is designated as either State Development Area (Yarwun) (to the west), Major Industry / Infrastructure (further west), Strategic Port Land (to the north) or Mixed Industry (eastwards across Auckland Creek). There is a distinct lack of development in the area with land to the north and west lying vacant as is land directly across Auckland Inlet to the south. Directly to the east of the site and Alf O'Rourke Drive is undeveloped marine industry precinct land.

#### 1.2. Address and real property description

AOCF is located towards the southern section of Alf O'Rourke Drive, Gladstone. The property description is part of Lot 211 on SP174655 and is owned by the Gladstone Ports Corporation Limited (GPC).

#### 1.3. Processes being undertaken and any emissions associated with the activities

The main activity on the site will be the loading and unloading of vehicles to take plant and equipment to and from Curtis Island. Direct emissions associated with operating the vehicle and cargo consolidation facility are assessed in Section 3. There are no other direct emissions from the operation of AOCF.

Approximately 30,200 m<sup>2</sup> of the facility is a car park located on the northern portion of AOCF. The car park is fenced with access through three gates off of Alf O'Rourke Drive: one near the northeast corner for exit only; one in the middle for emergency exit only; and the third one in the southeast corner for entry and exit. There is also a gate for internal access into the vehicle and cargo consolidation facility and a gate leading to the haul road on the northern boundary of the facility.

The freight marshalling area occupies approximately 70,500 m<sup>2</sup> and will be used for the temporary marshalling, storage of new plant and equipment going to, or surplus plant and equipment coming from the Curtis Island LNG Facility. An area of approximately 3,400 m<sup>2</sup> is located outside of the fenced area near the south east corner of the site for truck parking when the facility is closed.

The marshalling area is fenced with access via one gate and security hut in the middle (entry and exit) and one gate and security hut on the north side (exit only). All of the on-site buildings are temporary and portable and are shown on the site plan.

#### **1.4. Site Management**

##### **1.4.1. Hours of work**

The hours of operation of the cargo consolidation area will be weekdays (Monday to Friday) from 6:30am to 6:30pm. The site operating hours on the weekends (Saturday and Sunday) will be from 8:30am to 4:30pm. The site will not be open on public holidays.

QGC may use the vehicle parking area 24 hours per day 7 days per week during shutdown periods of the QCLNG Facility to accommodate a periodic increase in site maintenance personnel, contractors and shift changes. It is unlikely that the AOCF will be used for this purpose while the current facility at QC1 is in operation.

##### **1.4.1. Access to the site**

Access to the site will be controlled by QGLNG operations through the site Laydown Coordinator. The Laydown Coordinator will log all incoming and outgoing vehicle movements. The Laydown Coordinator will be responsible for recording any required vehicle inspection certificates (Fire Ants) and any waste tracking certificates for the transport off site of any regulated wastes (sewage transport, hazardous wastes).

##### **1.4.2. Access and egress locations for vehicles and cargo**

There is one entry point to the consolidation area off of Alf O'Rourke Drive through the automated security gate (Gate 1). There are two exit points from the consolidation area on to Alf O'Rourke Drive, the southern exit through the automated security gate (Gate 1) and the northern exit through the manual security gate (Gate 2). The car parking area has one entry/exit gate (Gate 3) and one exit only gate (Gate 5). The car parking area has two emergency use only gates (Gate 4 and Gate 6). Entry and exit points are shown in Figure 2.

#### 1.4.3. Cargo and vehicles to be handled or stored on the site

QGC's continued use of AOCF will be primarily for mobilisation and demobilisation of plant and equipment from Curtis Island QCLNG Facility. QGC's primary use of the site for demobilisation will be during the decommission and sale of surplus plant and equipment including a temporary workers accommodation facility (TWAF) along with other infrastructure such as a temporary sewage treatment plant, temporary sea water desalination plant, temporary warehouses, sporting facilities and office buildings.

The paved vehicle parking area will primarily be used to accommodate an increase in personnel during periodic maintenance shutdown periods at the QCLNG Facility. The parking facility has an approximate parking capacity of 600 cars along with bus parking for personnel transfer.

#### 1.4.4. Traffic impact

An increase in traffic in and around AOCF from the QCLNG Project has the potential to impact on the local community, workforce safety and traffic flow. Traffic impact and risk assessments were undertaken for the Project and upgrades to intersections were undertaken to minimise potential hazards and minimise the magnitude of any impacts.

### 1.5. Environmental aspects relevant to the operation of the activities being undertaken

QGC operates an environmental management system certified to ISO14001. QGC's environmental commitments are stated in the Health, Safety Security and Environment Policy as shown in Appendix 1.

The environmental aspects addressed in QGC's EMS and applicable to the AOCF's SEP includes:

- ▶ General Operations;
- ▶ Noise and Vibration;
- ▶ Waste Management;
- ▶ Hazardous Substances Management;
- ▶ Air Quality;
- ▶ Sediment Control and Stormwater Management;
- ▶ Weed and Pest Management; and
- ▶ Lighting.

Management measures for Acid Sulphate Soils (ASS) have been identified; however ASS is not anticipated to be encountered at this location. The site has been previously inspected and tested and documented to be clean and free from ASS contamination. Furthermore, current and proposed activities to be undertaken at the AOCF site will not disturb or impact on any ASS.



The following aspects have not been further addressed in this SEP as these have been previously addressed in the design, construction and operation of the facility are considered not applicable to the continued use of operational activities at the AOCF:

- ▶ Indigenous and Non-indigenous Cultural Heritage;
- ▶ Terrestrial Ecology; and
- ▶ Groundwater Quality Management.

## 2. Site Plan

### 2.1. Buildings, structures and other site facilities

Table 1 outlines the buildings, structures and facilities of the site. The structures are shown on the general site layout and specific drawings as shown in APPENDIX 1. A summary of the buildings, structures and other site facilities are provided Table 1.

Table 1 Alf O'Rourke buildings, structure and other site features

Facility	Description (Approximate dimensions)	Reference diagram
Security huts	3m x 3m	Alf O'Rourke Plan – Security hut – QD13077- 4/AOR/A
Entry shelter	3m x 3m	-
Bus stop hut	3m x 3m	-
Site offices	12m x 3m	Alf O'Rourke Plan – Management Office - QD13077- 2/AOR/A
Lunch cribs	12m x 3m	Alf O'Rourke Plan – Crib Rooms - QD13077- 7/AOR/A
Toilet units	M&F 6m x 3m, 4m x 3m, pump out	Alf O'Rourke Plan – Washroom - QD13077- 1/AOR/A
Lighting	Standard and high mast	Area Lighting – G1004-2-AOR-17A and G1004-2-AOR-18A
Car park area exit/entry gates	QNT 4	-
Cargo/laydown area exit/entry gates	QNT 3	-
Security fence	Perimeter fence, internal fence, gen set fence	-
Bus shelters	12m x 3m	-
Gross pollutant traps	Stormwater 360	-
Power generator – back up power	QNT 1 (Fuel cell, diesel generator, transformer, switch board)	-
Crib covered area	12m x 4m	-
Water tank	1 x 20KL	-
Smoking huts	QNT 2	-

### **3. Environmental Issues**

The SEP addresses environmental issues associated with the operation of the AOCF in relation to potential emissions to land, water and air. The SEP also addresses operational impacts associated with waste and environmental nuisance such as dust, noise and light emissions.

#### **3.1. Assessment of environmental risks and control measures**

The associated risk management processes for AOCF shall be in accordance with the relevant standards including but not limited to: Workplace Health and Safety Advisory Standards and Codes of Practice; and Australian Standards, except where the risk management processes demonstrate that higher standards of risk control are required to adequately manage those hazards inherent to the activities, in which case these should be incorporated into the operation of the facility.

A risk based management process has been used to develop appropriate environmental control measures that address the operation of the facility based on the "Hierarchy of Controls" principles:

- ▶ Elimination of the hazard;
- ▶ Substitution with a less hazardous material, process or equipment;
- ▶ Designing the equipment / process to mitigate the risk;
- ▶ Separation/isolation of the hazard to reduce the requirement; and
- ▶ Administrative/personal protective equipment controls.

Additional risks will be assessed and control measures implemented as they are identified during the operation of the site.

#### **3.2. Water management**

Surface water runoff has been identified as the primary mode for contaminant transport from the site. Contaminants released from the site have a potential to impact water quality in the receiving environment.

Operational areas of AOCF have been paved to minimise any impact from sedimentation due to erosion and onsite vehicle movements. The volume of surface water runoff from the site will be greater than runoff from natural soil as a result the impervious nature of the paved area and this has the potential to carry gross pollutants off of the site. To minimise this impact the site is divided into four (4) surface water catchments. Surface water runoff from the site is predominantly sheet flow from each catchment into open swale drains that run in a north and south direction along the east and west sides of the site. Surface water in the swale drains reports to gross pollutant traps prior to release into riprap lined swale drains. There are three (3) surface water release points from the swale drains into the receiving environment. The release point on the north east side of the site releases through a culvert under Alf O'Rourke



Drive and into a swale drain that flows into Auckland Creek. Two release points located on the south east and south west side of the site release into Intake Canal at approximately 130m and 490m AMTD. The Gladstone Power Station sea water intake is located approximately 1km AMTD along Intake Canal. Site maintenance will include: good housekeeping practices; periodic inspection and cleaning of the gross pollutant traps, as required; inspection of bins; correct storage and handling of wastes; dust control and the removal of litter and any other prescribed water contaminants.

The general arrangements and design specifications for stormwater management on the site including: catchments; gross pollutant traps; and discharge points are shown in Appendix 2 and include:

- ▶ Stormwater Managements General Arrangements;
- ▶ Stormwater Treatment Devices; and
- ▶ Stormwater Treatment Devices Details.

Monitoring of the site and the condition of stormwater treatment devices will be undertaken to ensure that there are no water quality impacts as a result of operational activities. Stormwater runoff will be visually monitored for turbidity, discolouration, sediment, oil sheen, waste materials, litter and other contaminants. Corrective action will be undertake should any contamination be found and the relevant authority notified if there is breach of any approval conditions or where there is a potential environmental harm. Given the facility will be utilised predominantly as a staging area for demobilisation activities, water contamination has not been identified as a significant risk.

### **3.3. Air quality management**

The AOCF is located in an industrial area which is expected to have an ambient air quality that complies with the relevant State, federal and international air quality objectives.

No impacts on environmental values of the local air environment are expected as a result of the operation of the AOCF as there are no processes undertaken that result in air emissions. The only contributions to air emissions will be from vehicle exhausts and the exhaust from the infrequent use of the backup power generator.

Operations on the site that include car and truck movements, loading and unloading will not generate dust as all operational areas of the site have been surface finished with bitumen, including routes into and out of the facility.

In the event of a dust complaint being made about the activity notification will be undertaken in accordance with QGC's notification procedures.

### **3.4. Noise management**

The operational activities will be carried out within Strategic Port land where there are existing noise sources. Noise emissions from the site will be predominantly from truck movements,

loading and unloading using mobile cranes. The site is not located near any identified noise sensitive receptors. The potential exists for noise to impact project personnel (occupational noise) and the surrounding environment. The closest noise sensitive receptors are located across Auckland Inlet to the south-east, approximately 1.4km away.

Activities on site are not to generate noise in such a manner as is likely to have an impact or cause nuisance to neighbouring activities or residents. In the event of a noise complaint being made about the activity notification will be undertaken in accordance with QGC's notification procedures.

### **3.5. Land Management**

The AOCF land area was established through reclamation to accommodate the RG Tanna Coal Terminal. The reclamation incorporated the disposal of fly ash from the Gladstone Power Station. The majority of the AOCF site is now bitumen hardstand area with a small vegetated area on the north east side of the site. The site has been graded into four (4) stormwater catchment areas. Stormwater runoff from the site drains into two major stormwater drains along the east and west side of the site that drain into Auckland Inlet.

#### **3.5.1. Flora and fauna**

Flora and fauna will be mostly excluded from the site due to the bitumen hardstand and the perimeter security fence.

#### **3.5.2. Acid sulphate soil management**

This risk of Acid sulphate soil (ASS) was assessed and addressed during earthworks activities. No disturbance to soils is anticipated at AOCF. ASS is therefore not considered to be an applicable risk given the proposed use of the site.

### **3.6. Waste management**

There will be no waste disposal at the AOCF. All wastes generated carrying out the activity will be disposed of to a facility that can lawfully accept the waste. Waste generated in carrying out the activity may be surplus plant and equipment that has been damaged in transit or deemed unusable or unsalable due to its condition. QGC will manage wastes in accordance with the waste management hierarchy.

Wastes generated from the operation of the facility will include sewage and grey water. These wastes will be transported to Gladstone Regional Council's Wastewater treatment plants for treatment and reuse or disposal through a licenced regulated waste contractor.

Waste material will be collected at the site in skip bins and wheelie bins and disposed of through QGC's waste contractor. Any liquid wastes generated from breakdown maintenance and repair of plant, equipment and vehicles will be collected, stored and transported in accordance with the relevant legislative requirements and standards, in appropriate

containment vessels and disposed of lawfully. Servicing of vehicles will not be undertaken at the AOCF.

The site will be maintained in a clean and tidy condition. Any gross litter on the site will be cleaned up periodically. Litter will be prevented from moving off the site by the perimeter security fence. Any litter that enters the stormwater will be collected in one of the four gross pollutant traps. The gross pollutant traps will be cleaned out and maintained, as required.

All records associated with the transport and disposal of waste including hazardous and regulated wastes will be undertaken and kept in accordance with the applicable regulations and in accordance with QGC's record keeping and document control procedures.

### 3.7. Weed and Pest Management

The movement of plant and equipment into and out of AOCF has the potential to transport weed and pest species. Weed issues at the site are considered to be minimal as the majority of the operational area is bitumen hardstand. Regular visual inspection and maintenance of weeds on the site will be undertaken. The presence of any declared weeds will be reported to the relevant authorities and the appropriate control measures will be implemented. QCLNG is within the Gladstone Fire Ant Restricted Area where any forms of soil, pot plants, potting mix, mulch, bark hay, straw and manure or anything associated with these are prescribed restricted items. Vehicles must also be inspected and certified fire ant free before leaving the Island. Any vehicles originating from a restricted area and prescribed restricted items must be certified fire and free prior to entry to AOCF and a movement certificate must be produced as evidence of compliance.

## 4. Site Management responsibilities and contacts

Position	Management Responsibilities
QGC Central Compliance Team	<ul style="list-style-type: none"> <li>▶ Undertake audits against the QGC Environmental Management System (EMS).</li> <li>▶ Manage third party auditing of the site conditions.</li> <li>▶ Coordinate preparation and submission of reporting required under the approval.</li> <li>▶ Communicate non-compliance with approval conditions with GPC and any other relevant regulators.</li> <li>▶ Maintain correspondence, monitoring results and documentation of all environmental audits, inspections, complaints and compliance actions.</li> </ul>
Midstream Contracts	<ul style="list-style-type: none"> <li>▶ Manage the lease with Gladstone Ports Corporation.</li> <li>▶ Payment of annual lease and approval fees.</li> <li>▶ Manage the contracts with service providers:                             <ul style="list-style-type: none"> <li>○ Waste management;</li> <li>○ Electricity;</li> </ul> </li> </ul>

Position	Management Responsibilities
	<ul style="list-style-type: none"> <li>○ Water;</li> <li>○ Sewage.</li> </ul>
Midstream HSSE Manager	<ul style="list-style-type: none"> <li>▶ Ensure this management plan is implemented, reviewed and updated.</li> </ul>
Midstream Environmental Superintendent	<ul style="list-style-type: none"> <li>▶ Oversee the evaluation of compliance with environmental legislation and regulations, permits, licences and approvals.</li> <li>▶ Provide input into the Environmental Site Induction provided to all site staff and visitors.</li> <li>▶ Manage and coordinate monitoring in response to a complaint.</li> <li>▶ Act as primary point of contact for site personnel for water quality matters and any associated environmental incidents.</li> <li>▶ Provide environmental technical and regulatory compliance support.</li> <li>▶ Coordinate the provision of erosion and sediment controls and management.</li> <li>▶ Undertake any required reporting associated with monitoring programs and provide the results to the QGC Central Environment Team/QGC Central Compliance Team.</li> <li>▶ Initiate, participate in and oversee any environmental incident and complaint investigations in conjunction with and as directed by the LNG Operations HSSE Manager.</li> <li>▶ Implementation of corrective actions;</li> <li>▶ Communicate incidences, non-compliance and corrective actions to the QGC Central Environment Team, QGC Central Compliance Team and LNG Operations HSSE Manager.</li> <li>▶ Collate environmental incident reports and associated regulatory notifications for submission to the QGC Central Environment Team/QGC Central Compliance Team for review and transmission to the GPC or other regulators.</li> <li>▶ Undertake periodic inspections and monitoring of site environmental controls.</li> <li>▶ Interact with Regulators as directed by the QGC Central Environment Team/ QGC Central Compliance Team.</li> <li>▶ Participate in and facilitate site aspects of third party audits against the QGC EMS.</li> <li>▶ Undertake periodic review of this site environmental plan and amend the plan as required.</li> </ul>

Position	Management Responsibilities
Midstream Contracts	<ul style="list-style-type: none"> <li>▶ Manage contract processes including incorporation of HSSE requirements into contracts.</li> <li>▶ Support the HSSE Manager in implementation of this management plan.</li> <li>▶ Maintain the facility to prevent contamination of water discharged off site.</li> <li>▶ Maintain the Stormwater Management System including gross pollutant traps and swale drains.</li> <li>▶ Implement erosion and sediment controls as per technical advice provided by the Environmental Superintendent.</li> <li>▶ Maintain site security measures, perimeter fence, gates and lighting.</li> <li>▶ Maintaining backup power generator and fuel supply.</li> <li>▶ Implement weed and pest control measures.</li> <li>▶ Provision of spill kits.</li> <li>▶ Site housekeeping:               <ul style="list-style-type: none"> <li>○ Cleaning of onsite facilities: Crib rooms, toilets, bins, security huts, bus shelters, smoking areas;</li> <li>○ Street sweeping of paved areas;</li> <li>○ Maintenance of vegetated areas.</li> </ul> </li> <li>▶ Waste management:               <ul style="list-style-type: none"> <li>○ Provision of general rubbish bins and recycling bins, wheelie bins and skip bins;</li> <li>○ General site waste disposal;</li> <li>○ Pump out of sewage tanks.</li> </ul> </li> </ul>
QGC Central Environment Team	<ul style="list-style-type: none"> <li>▶ Obtain and amend site approval conditions as required.</li> <li>▶ Liaise with regulators about site approval issues.</li> </ul>

#### 4.1. Site and environmental incident contacts

<b>QGC</b>	<b>Phone number</b>
Site Access Coordinator	(07) 3024 8341
Environmental Superintendent	(07) 3024 8164 / 0417706510
QGC Duty Manager	1300 765 033 (Select Option 2)

<b>Site maintenance</b>	(07) 3024 8341
Waste collection	
Housekeeping	
Site cleaning	
Sewage tank pump out	
Weed control	

<b>Environmental incident contacts:</b>	
GPC Environmental Superintendent	(07) 4976 1258
Marine Unit Coordinator for GPC	(07) 4973 1208
Regional Harbour Master (Gladstone)	(07) 4973 1208

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First Strike Oil Spill Response Team Leader	0409 629 413
EHP Pollution Hotline	1300 130 372
EHP Gladstone Office	(07) 4971 6500

#### **4.2. Site environmental induction**

Site environmental awareness training is required for onsite personnel and will be delivered by HSSE Manager or a training coordinator. In addition to HSSE performance and site rules, the following environmental topics will be covered to make employees and contractors aware of QGC's EMS and their general environmental duty:

- ▶ General site maintenance (e.g. good housekeeping, environmental controls maintenance);
- ▶ Waste management rules, waste tracking and waste handling requirements (e.g. waste transfer, segregation, storage area management, labelling, and disposal);
- ▶ Hazardous material/waste handling (e.g. hazard identification, Safety Data Sheets (SDS), incompatible segregation, container management, labelling);
- ▶ Erosion and sediment control (e.g. assessing site conditions and erosion control requirements, installing and maintaining stormwater improvement devices, reporting erosion control issues);
- ▶ Dust control measures;
- ▶ Pest control (e.g. red imported fire ants, biting midges, feral animals).
- ▶ Unanticipated discoveries;
- ▶ Spill prevention and response (e.g. proper storage of hazardous materials, secondary containment, spill kits, spill response, and notifications).

Environmental awareness training will be included in the general site induction. New starters will be required to undertake site orientation before working on the site and records will be kept of personnel who attend. Site visitors will be required to undertake a visitor environmental induction prior to site access that will be included as part of the HSSE visitor induction for site access.

#### **5. Management and reporting of environmental incidents**

QGC will require its sub-contractors to establish formal reporting requirements as per the HSSE Incident Recording, Reporting and Investigation Procedure. QGC will notify GPC of environmental incidents when they occur and shall provide a corresponding incident and investigation report, upon completion of investigation. QGC will make formal notification to the relevant agency (e.g. EHP, GRC, MSQ) as required by law.

#### **6. Monitoring and Reporting**

As part of implementing this plan it is recognised that processes for inspection, monitoring and auditing are essential in determining the effectiveness of environmental management in terms of addressing key environmental risks; achieving policy and regulatory objectives; responding to identified incidents, non-compliances or non-conformance issues; and keeping up to date with legislative and industry standards. General monitoring measures for the following



environmental aspects, during operations, have been discussed in the management actions presented for each aspect in the previous section:

- ▶ Water;
- ▶ Noise;
- ▶ Waste;
- ▶ Air Quality; and
- ▶ Weed and Pest Management;

All monitoring shall be undertaken by suitably qualified personnel. All instruments, equipment and measuring devices used for measuring or monitoring must be calibrated, and appropriately operated and maintained. Results of monitoring will be maintained on record, compiled and reported.

## **7. Environmental Complaints**

Complaints received will be recorded, including details of complainant, reasons for the complaint, investigations undertaken, conclusions formed and actions taken. Except in cases where the complaint is considered to be a matter for which the holder is in compliance, is frivolous, vexatious, or based on a mistaken belief, corrective action will be taken as soon as practicable to investigate the cause and resolve the complaint. Corrective actions, recommendations and procedures, including modifications to practices where applicable, are managed by QGC Central Compliance Team.

The QGC procedure for complaints shall include:

- ▶ A procedure for receiving and responding to complaints that is acceptable to the relevant agency;
- ▶ A process for registering and handling complaints received in terms of:
  - Time and date of complaint;
  - The identity of the complainant and the recorder of the complaint;
  - The specific action or activity causing the complaint;
  - Whether environmental compliance requirements are being met; and
  - The action taken to address the complaint if necessary.
- ▶ Feedback to the complainant and the relevant agency as required within a specified time period;
- ▶ Any subsequent remedial action required to avoid cause for future complaints if relevant;
- ▶ Regular reporting to the relevant agency of complaints and corrective actions; and
- ▶ Monitoring and auditing of the complaint handling system.

## **8. Environmental Incidents**

An environmental emergency or incident will be regarded as any action that harms or has the potential to cause serious or material harm to the environment. In the event that an environmental emergency or incident occurs, the following steps will be followed immediately:

- ▶ Where safe to do so, prevent further pollution/environmental harm (including impacts on air, water quality, and noise environment);
- ▶ Clean-up and/or control polluting substance(s);
- ▶ Implement mitigation measures to prevent recurrence of a similar incident; and
- ▶ Document the incident and instigate an incident investigation as appropriate.

Any emergency or incident which results in the release of contaminants or mismanagement of waste not in accordance, or reasonably expected to be not in accordance with approval conditions will be verbally reported by the Environmental Superintendent as soon as practicable after becoming aware of the incident in accordance with approval requirements. QGC will make formal notification to GPC. The notification of emergencies or incidents will include the following:

- ▶ The holder of the development approval;
- ▶ The location of the emergency or incident;
- ▶ The number of the development approval;
- ▶ The name and telephone number of the HSSE Manager;
- ▶ The time of the release/mismanagement incident;
- ▶ The time the holder became aware of the release/mismanagement incident;
- ▶ The suspected cause of the release/mismanagement incident;
- ▶ The environmental harm caused, threatened, or suspected to be caused by the release/mismanagement incident; and
- ▶ Actions taken to prevent further release and mitigate any environmental harm caused by the release/mismanagement incident.

## 9. Auditing

QGC operates under an EMS in accordance with the international standard AS/NZS ISO 14001. The EMS must be regularly audited to ensure its continuing suitability, adequacy and effectiveness and meet QGC's commitment to continual improvement.

Regular internal audits of the EMS are conducted, covering all activities within the scope of the QGC Asset EMS.

## Appendix 1. Health Safety Security and Environmental Policy

### HSSE Policy

**We work together as One Team -- employees, contractors and suppliers -- towards zero injuries.**

Each of us is held accountable for our individual and team's health, safety, security and for keeping the environment free from harm. We deliver our commitments by living the 14 elements of our HSSE management system:

- 1 Leadership:** Our senior leadership set the tone and ensure that all our stakeholders understand and commit to our HSSE management system.
- 2 Risk Management:** We keep our team safe and healthy and protect the environment by identifying, assessing and controlling risks. This includes risks that are addressed to at all times.
- 3 Planning:** We set clear HSSE goals, objectives, expectations and targets to deliver our business plan safely.
- 4 People & Capability:** We carefully select and train our team so that they are able to perform their work safely.
- 5 Communication, Consultation & Commitment:** We keep people informed and engaged. Our members are consulted on any HSSE matters that might affect them.
- 6 Facility Design & Construction:** We design and construct our facilities to perform safely, reliably and without harm to the environment.
- 7 Operations & Maintenance:** We operate an integrated operation that safely the way they work.
- 8 Working with Contractors & Suppliers:** We work together with our contractors and suppliers to manage workplace risks.
- 9 Emergency & Security Management:** We plan ahead and develop capabilities to deal with emergencies, whatever they occur.
- 10 Management of Change:** We recognise and control business changes that could impact HSSE.
- 11 Performance Measurement & Monitoring:** We monitor our HSSE performance and always seek improvements.
- 12 Incident Management & Learning:** We learn from incidents and take the necessary actions so that they don't happen again.
- 13 Governance:** We regularly check to ensure all of our HSSE expectations and obligations are met.
- 14 Management Review:** We regularly review our HSSE performance and make adjustments in support of our goal of zero injuries.



### Our Way to Zero Injuries

**When executing the 14 elements our actions are consistent with our OICC duties:**

**Observation:** We are visible and active observers, constantly looking for at-risk behaviours and unsafe conditions, but also praising good performers.

**Intervention:** When we observe something that could cause harm, we intervene immediately and keep intervening until it is made safe. We are open to constructive interventions and respond positively.

**Compliance:** We have no tolerance in our life. Savers and always comply - they are there to keep us and the environment safe. We make sure we understand which rules apply to us and the work we are doing.

**Collaboration:** We are accountable for the safety and wellbeing of those who work with us and constantly seek ways to help one another achieve safe business delivery.

The QGC Management Team cares about all our One Team members and is committed to providing a safe workplace and managing our environmental risks. **QGC will not compromise on HSSE.**

**M. Williams**  
Managing Director QGC



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## **Appendix 2. General site layout and drawings**

- 1) **Figure 1 Site aerial photograph, January 2015**
- 2) **Figure 2 General site layout**
- 3) **Figure 3 Finished pavement levels Sheet 1 of 3**
- 4) **Figure 4 Finished pavement levels Sheet 2 of 3**
- 5) **Figure 5 Finished pavement levels Sheet 3 of 3**
- 6) **Figure 6 Site services Sheet 1**
- 7) **Figure 7 Area lighting Sheet 1 of 2**
- 8) **Figure 8 Area lighting Sheet 2 of 2**





Figure 1 Site aerial photograph, January 2015

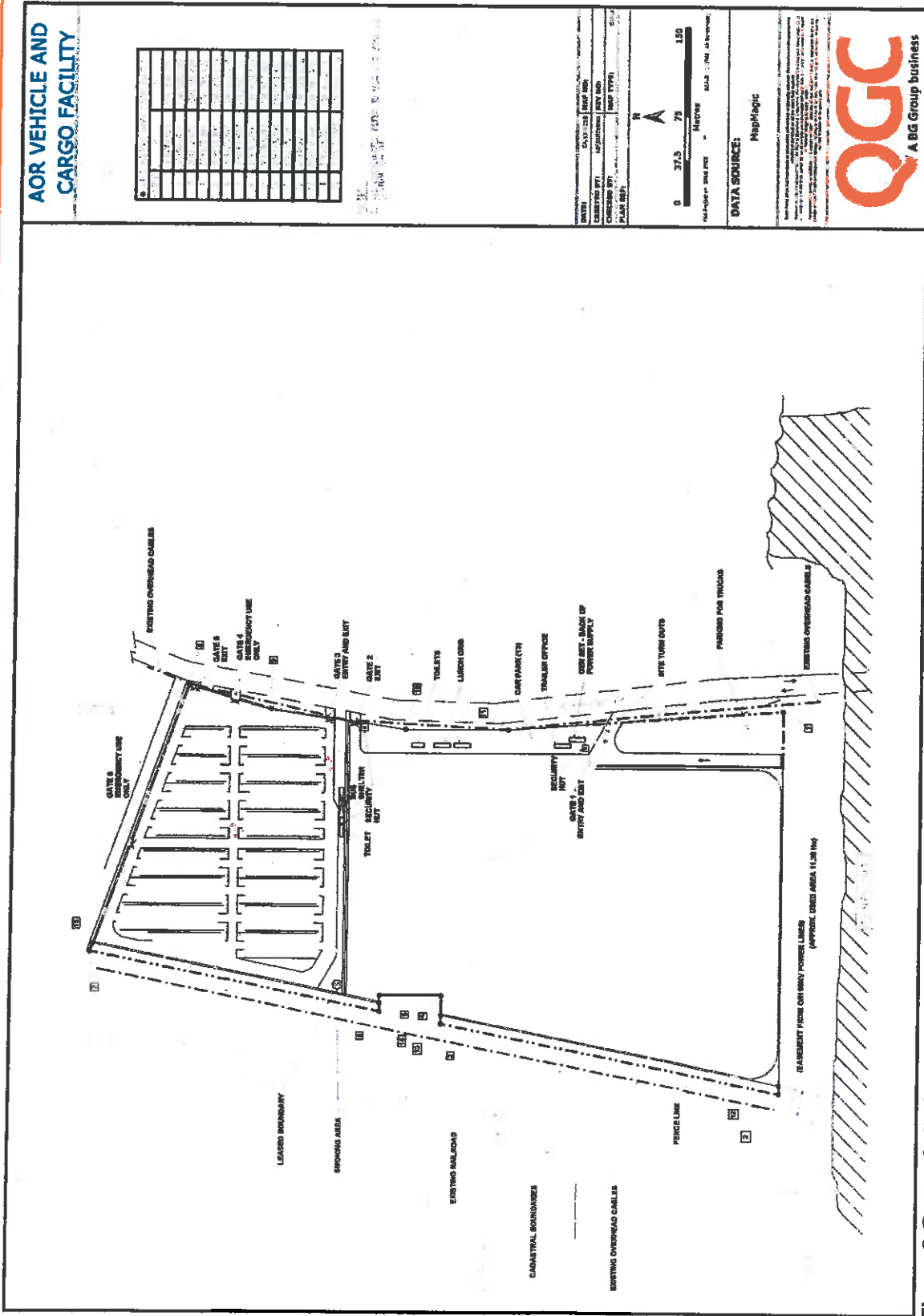


Figure 2 General site layout





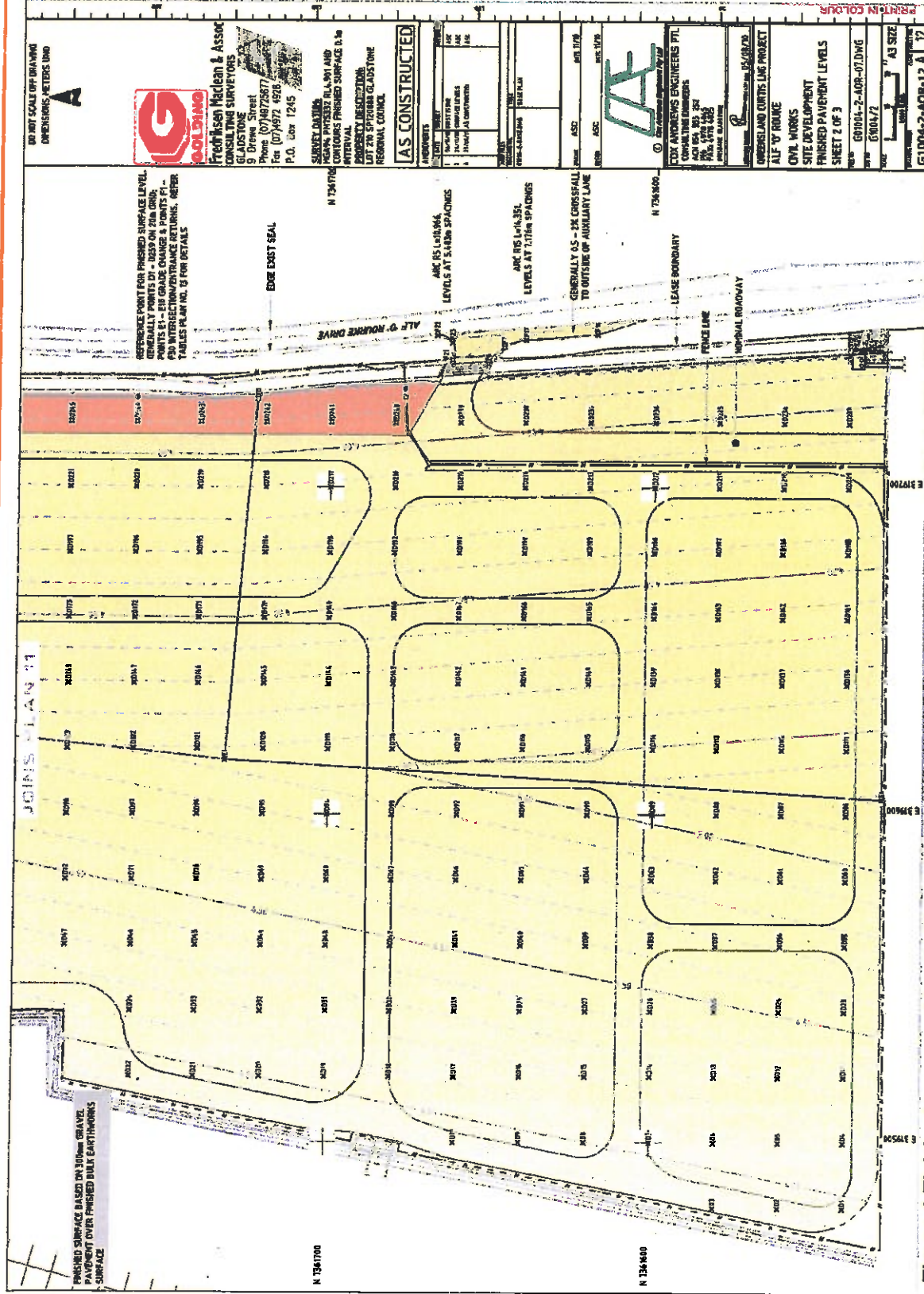


Figure 4 Finished pavement levels Sheet 2 of 3





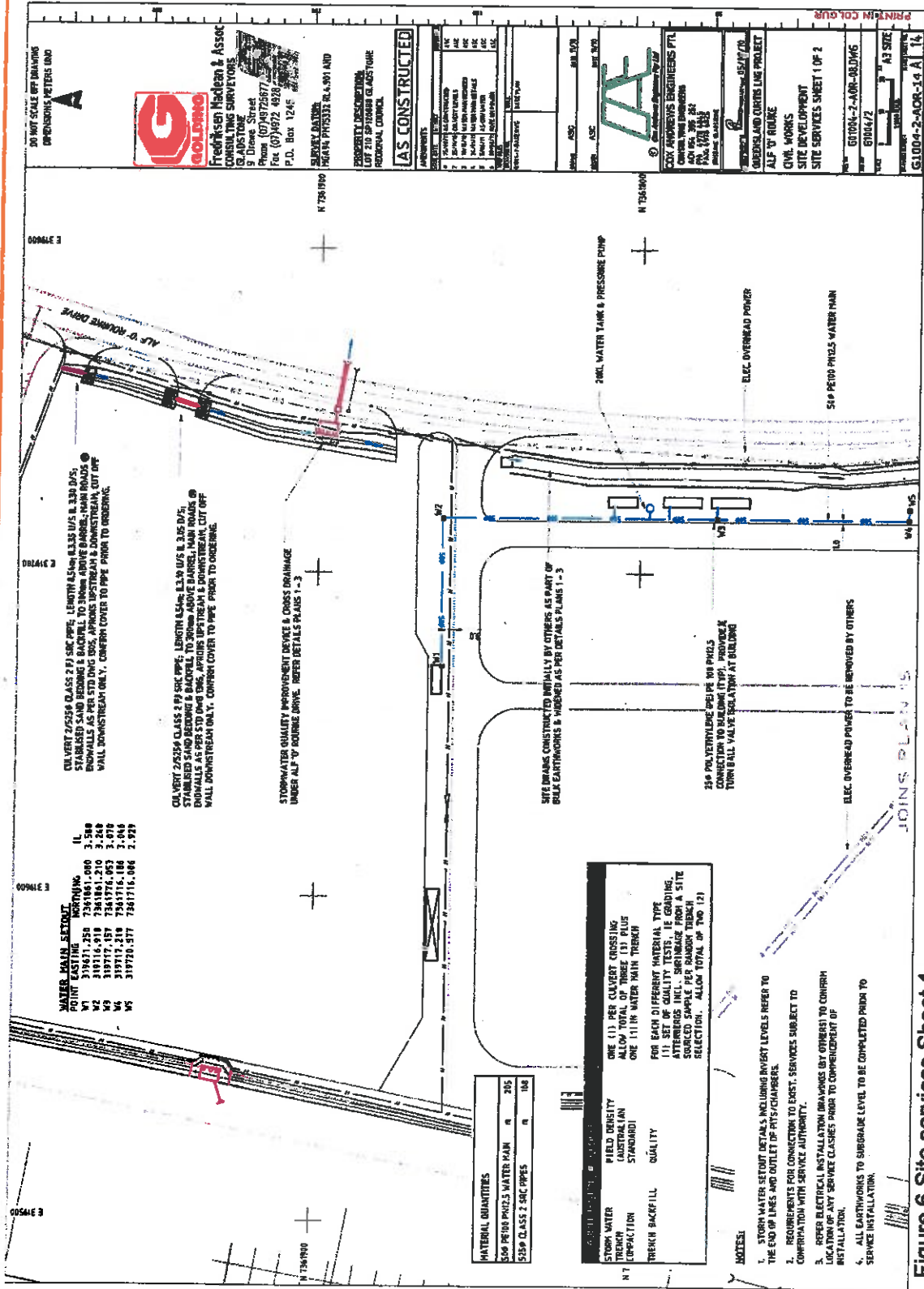


Figure 6 Site services Sheet 1

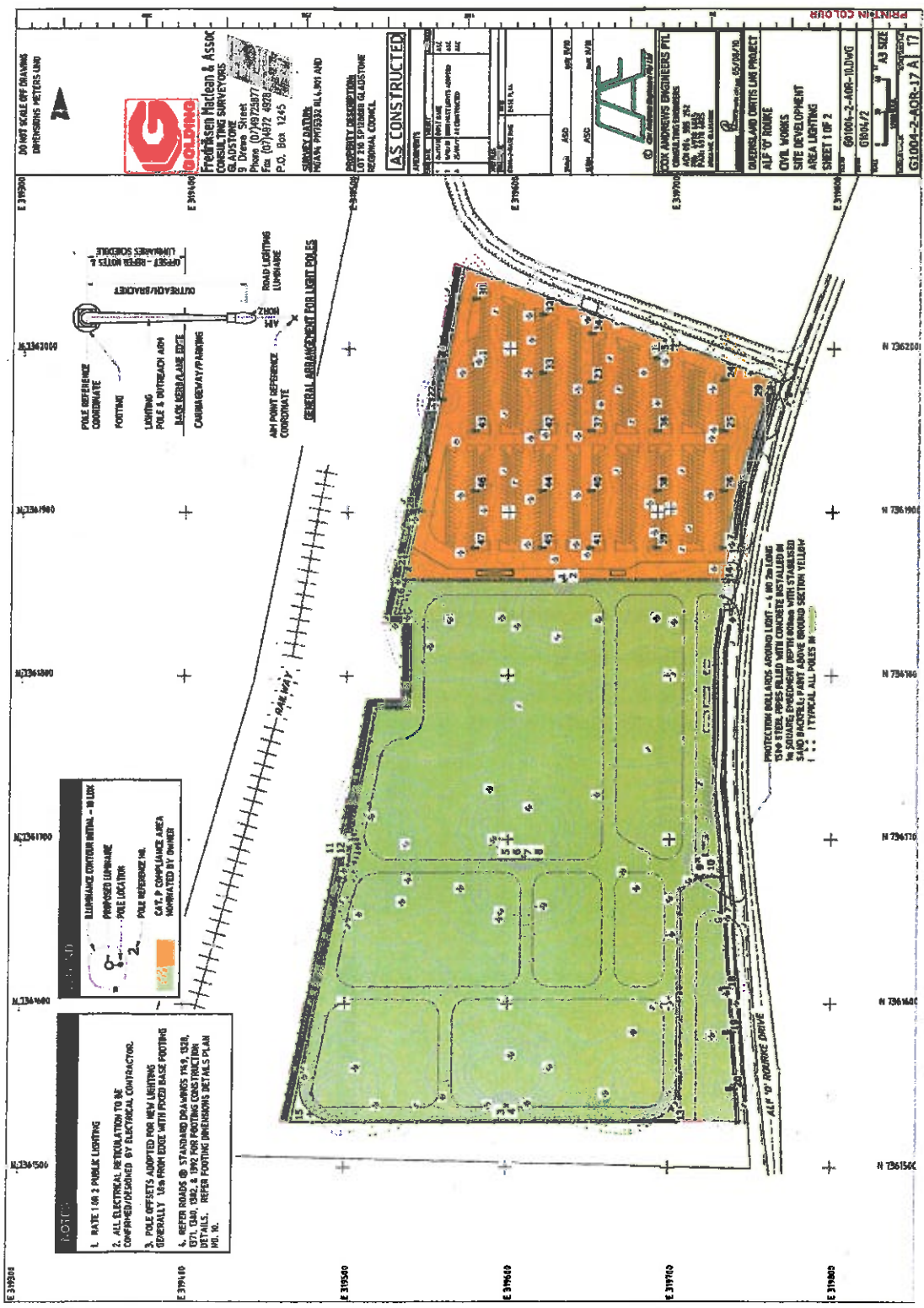


Figure 7 Area lighting Sheet 1 of 2

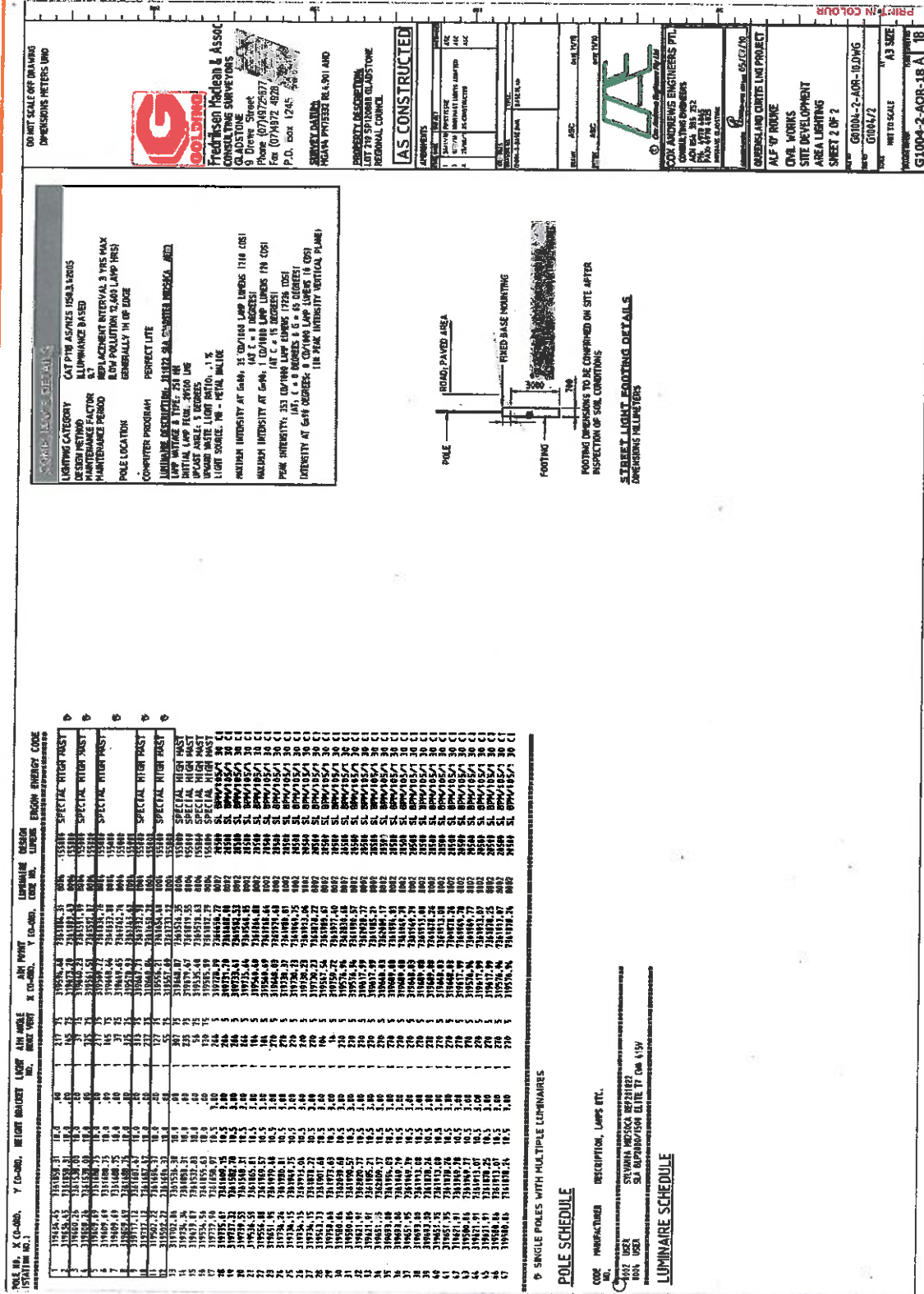
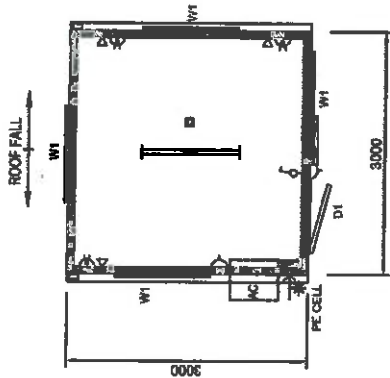


Figure 8 Area lighting Sheet 2 of 2





**CONSTRUCTION SET**



**NOTES:**

- 1. MANUFACTURE TO MULTITRADE BUILDING STANDARDS
- NOTE: REFERENCE BECHTEL DRAWING COK-000-00084

3.0 x 3.0m SECURITY HUT FLOOR PLAN FOR ALF O'ROURKE

**Qualifying Design Criteria**  
Wind Load - in accordance with AS 1170.2: 2002  
Region C - TERRAIT CATEGORY 2  
Annual probability of exceedance 1500  
REGION WIND SPEED - V50 = 0 m/s

REV	DATE	DESCRIPTION
1	02.11.10	ISSUED FOR CONSTRUCTION
2	17.10.10	ISSUED FOR CONSTRUCTION
3	17.10.10	ISSUED FOR CONSTRUCTION

**CLIENT APPROVED DRAWING**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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<b>CHANGES SERIAL NUMBER - (ALPHABETICALLY)</b> 15021 2015 03 10 10:00 AM CUT BACK 100mm FROM END AND TURN UP FLANGE AS SHOWN IN DETAIL 'B'	<b>100x50 PFC</b> 100x50 PFC ON 20mm SHAKLE HOLE 20x25x3 BRK 20x25x3 BRK 20x25x3 BRK RANDOM END NUTS 4x END NUTS @ 1800 CRS C/W 20x25x3mm CUTOUT FOR 'D' SHAKLE L200x16 IS 600 CRS 10xmm CAPPER CHASSIS BLACK RECO APPLIED TO MANUFACTURERS SPECIFICATIONS.
<b>END MEMBERS</b> CUTTING WHEEL SHEAVES BRACKET TOW LUG	<b>100x50 PFC</b> 100x50 PFC ON 20mm SHAKLE HOLE 20x25x3 BRK 20x25x3 BRK 20x25x3 BRK RANDOM END NUTS 4x END NUTS @ 1800 CRS C/W 20x25x3mm CUTOUT FOR 'D' SHAKLE L200x16 IS 600 CRS 10xmm CAPPER CHASSIS BLACK RECO APPLIED TO MANUFACTURERS SPECIFICATIONS.
<b>FLOORING</b> FLOOR COVERING INSULATION	-17mm PLY -1.5mm VINYL GREY GMP -UNDER FLOOR (POLY TYPE)
<b>WALLS</b> WALL TYPE HEIGHT INTERNAL LINING INTERNAL TRIM LINATION CLADDING BRACING	-70 x 35mm TIMBER -2400mm CENTERS -3.5mm EMB POLY PLY (UREY) -PVC TO MATCH WALLS -R1.5 GLASSWOL TO EXT WALL DAVITERS -25x25x3mm BRK (SURTHER) -BRACING TO ENGINEERS DETAILS
<b>ROOF</b> ROOF SLOPE BEAMS RAVENS INSULATION ROOF CEILING ROOF DECKING CAPPING GUTTER BRACKETS BRACING	-2° CENTER PITCH (W/ RAINER TRIM) -W/ 45° TIMBER @ 600mm -NIL -60mm R2.5 ANTI CON -IMPROVE PEARL PLY -25x25x3mm BRK (SURTHER) -42 ZINC ALUMIN TRAPDEK -SURTHER -SURTHER -SURTHER -BRACING AS PER DRAWING
<b>OPENINGS</b> DOORS WINDOWS	-SURTHER -WHITE D1 - P4 DOOR 2000x800 1000x1000 GLASS w/ WATERBURY ENTRANCE SET A EXTERNAL DOOR CLOSER W1 - 1 IS WINDOW 1000x1000 GRAY GLASS w/ PLY GREEN AC - (see 15021) CUT OUT FOR FUTURE AIR CONDITIONER
<b>ELECTRICAL</b> GPOUT DATA P.O.L. A.C.	- 3 off 10amp DOZZLE (DUAL POLE) - 3 off 10amp PRE-WIRE POINT w/ BLANK PLATE - 1 off 10amp DOZZLE & POWER ENTRY POINT - 1 off 10amp DOZZLE (DUAL POLE) 15/100mm
<b>MECHANICAL</b> WATER INLET WATER OUTLET LOCK DOWN TWO-WAY LIGHT SWITCH CEILING EXHAUST FAN WALL EXHAUST FAN PACK FAN TELEVISION POINT SMOKE DETECTOR	DRAW WIRE WELL GLASS INCANDESCENT EXTERNAL WALL LIGHT WALL LIGHT ILLUMINATED EXIT SIGN SINGLE FLUORESCENT 30w DOUBLE FLUORESCENT 30w S.C.P.O. (15 Amp) DOUBLE G.P.O. (10 Amp)

**CLIENT:** MULTITRADE (GOLDING)  
**LOCATION:** GLADSTONE, QLD  
**DESCRIPTION:** ALF O'ROURKE FLOORPLAN - SECURITY HUT

**DESIGNER:** ALF O'ROURKE  
**DATE:** 02.11.10  
**SCALE:** NTS  
**REV NO.:** 2

**QGC**  
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www.apb.com.au

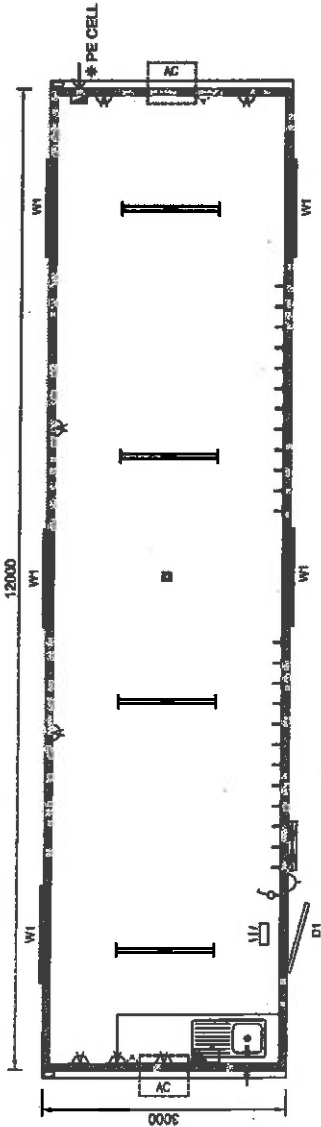
**REVISION LIST**

REV	DATE	DESCRIPTION
1	02.11.10	ISSUED FOR CONSTRUCTION
2	17.10.10	ISSUED FOR CONSTRUCTION
3	17.10.10	ISSUED FOR CONSTRUCTION

**Figure 10 Security hut layout**

**CONSTRUCTION SET**

ROOF FALL



**NOTES:**

- 1. MANUFACTURE TO MULTITRADE BUILDING STANDARDS
- 2. SMOKE DETECTION

NOTE: REFERENCE BECKETL DRAWING CRW-0000-0006

12.0 X 3.0 M CRIB ROOM FLOOR PLAN FOR ALE OYORUKKE

**Building Design Criteria**  
Wind Load - In accordance with AS 1170.2 - 2002  
REGION C, TERRAIN CATEGORY 2  
Annual probability of exceedance 1/500  
REGION WIND SPEED - 1500 = 66 m/s

REVISION	NO.	DESCRIPTION	DATE
A	1	ISSUED FOR APPROVAL	

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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<b>CHAIRSE BERNAL NUMBER: 400318</b>	15076 PFC @ 1000 CRS 15076 PFC @ 1000 CRS CRIB AND LUMINIF PLANCE AS SHOWN IN DETAIL 'B'
<b>END MEMBERS</b>	10050 PFC 10050 PFC CW 20mm SHAKHIL HOLE
<b>OUTRIGGERS</b>	70mm RAS 70mm RAS 70mm RAS
<b>WALL SLEEVES</b>	10050 PFC 10050 PFC
<b>WALLS</b>	10050 PFC 10050 PFC
<b>STUD SPACING</b>	400mm CENTERS
<b>HEIGHT</b>	3400mm
<b>INTERNAL LINING</b>	1/2" CLASSIFIED EMB POLY BLY (PWB)
<b>INSULATION</b>	1/2" CLASSIFIED EMB POLY BLY (PWB)
<b>CLADDING</b>	1/2" CLASSIFIED EMB POLY BLY (PWB)
<b>BRACING</b>	BRACING TO ENGINEERS DETAILS
<b>ROOF</b>	2" CENTRE CW TRIMER TRIM 2" CENTRE CW TRIMER TRIM 2" CENTRE CW TRIMER TRIM
<b>EAVES</b>	1/2" ANTI COR INSULATION TO CEILING 1/2" ANTI COR INSULATION TO CEILING 1/2" ANTI COR INSULATION TO CEILING
<b>INSULATION</b>	1/2" ANTI COR INSULATION TO CEILING 1/2" ANTI COR INSULATION TO CEILING 1/2" ANTI COR INSULATION TO CEILING
<b>ROOF DRAINING</b>	AT ZINCALUME TRIMBECK AT ZINCALUME TRIMBECK AT ZINCALUME TRIMBECK
<b>GLASS</b>	5mm CLEAR GLASS 5mm CLEAR GLASS 5mm CLEAR GLASS
<b>BOYRAPPERS</b>	BOYRAPPERS BOYRAPPERS BOYRAPPERS
<b>BARGE</b>	BOYRAPPERS BOYRAPPERS BOYRAPPERS
<b>OPENINGS</b>	OPENINGS OPENINGS OPENINGS
<b>WINDOVS</b>	WINDOVS WINDOVS WINDOVS
<b>DOORS</b>	DOORS DOORS DOORS
<b>WIRE</b>	WIRE WIRE WIRE
<b>D1 - FH DOOR</b>	2000x2100x2100 GREY GLASS SW/MASTER KEYED ENTRANCE SLT & OPTIONAL DOOR CLOSER
<b>W1 - FH WINDOW</b>	2000x1100 GREY GLASS CH/FLY SCREEN
<b>AC - SMOKE DETECTOR</b>	10050 PFC @ 1000 CRS 10050 PFC @ 1000 CRS 10050 PFC @ 1000 CRS
<b>ELECTRICAL</b>	CONCRETE CONCRETE CONCRETE
<b>WALL</b>	WALL WALL WALL
<b>ROOF</b>	ROOF ROOF ROOF
<b>GLASS</b>	GLASS GLASS GLASS
<b>BOYRAPPERS</b>	BOYRAPPERS BOYRAPPERS BOYRAPPERS
<b>BARGE</b>	BARGE BARGE BARGE
<b>OPENINGS</b>	OPENINGS OPENINGS OPENINGS
<b>WINDOVS</b>	WINDOVS WINDOVS WINDOVS
<b>DOORS</b>	DOORS DOORS DOORS
<b>WIRE</b>	WIRE WIRE WIRE

<b>SWITCHBOARD</b>	SWITCHBOARD
<b>WATER INLET</b>	WATER INLET
<b>FLOOR DRAIN</b>	FLOOR DRAIN
<b>LIGHT SWITCH</b>	LIGHT SWITCH
<b>TWO-WAY LIGHT SWITCH</b>	TWO-WAY LIGHT SWITCH
<b>CELLING EXHAUST FAN</b>	CELLING EXHAUST FAN
<b>WALL POINT</b>	WALL POINT
<b>DATA POINT</b>	DATA POINT
<b>TELEVISION POINT</b>	TELEVISION POINT
<b>SMOKE DETECTOR</b>	SMOKE DETECTOR
<b>DRAWING WIRE</b>	DRAWING WIRE
<b>INCANDESCENT</b>	INCANDESCENT
<b>FLUORESCENT</b>	FLUORESCENT
<b>EXTERNAL WALL LIGHT</b>	EXTERNAL WALL LIGHT
<b>VANDALITE 1/2" R/W</b>	VANDALITE 1/2" R/W
<b>DEFENDER 100W</b>	DEFENDER 100W
<b>EXIT SIGN</b>	EXIT SIGN
<b>SINGLE FLUORESCENT 30W</b>	SINGLE FLUORESCENT 30W
<b>DOUBLE FLUORESCENT 30W</b>	DOUBLE FLUORESCENT 30W
<b>AC G.P.O. (15 Amp)</b>	AC G.P.O. (15 Amp)
<b>DOUBLE G.P.O. (10 Amp)</b>	DOUBLE G.P.O. (10 Amp)

<b>CLIENT:</b>	MULTITRADE (GOLDING)
<b>LOCATION:</b>	GLASTONE QLD
<b>DESCRIPTION:</b>	PLAN - CRIB ROOM
<b>DATE:</b>	30.08.10
<b>SCALE:</b>	NTS
<b>DWG NO.:</b>	QD 13077-7/A0RIA
<b>REV NO.:</b>	A

Figure 11 Crib hut layout



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## **Appendix 3. Stormwater Management**

- 1) **Figure 12 Stormwater plan**
- 2) **Figure 13 Stormwater treatment devices**
- 3) **Figure 14 Stormwater treatment device details**

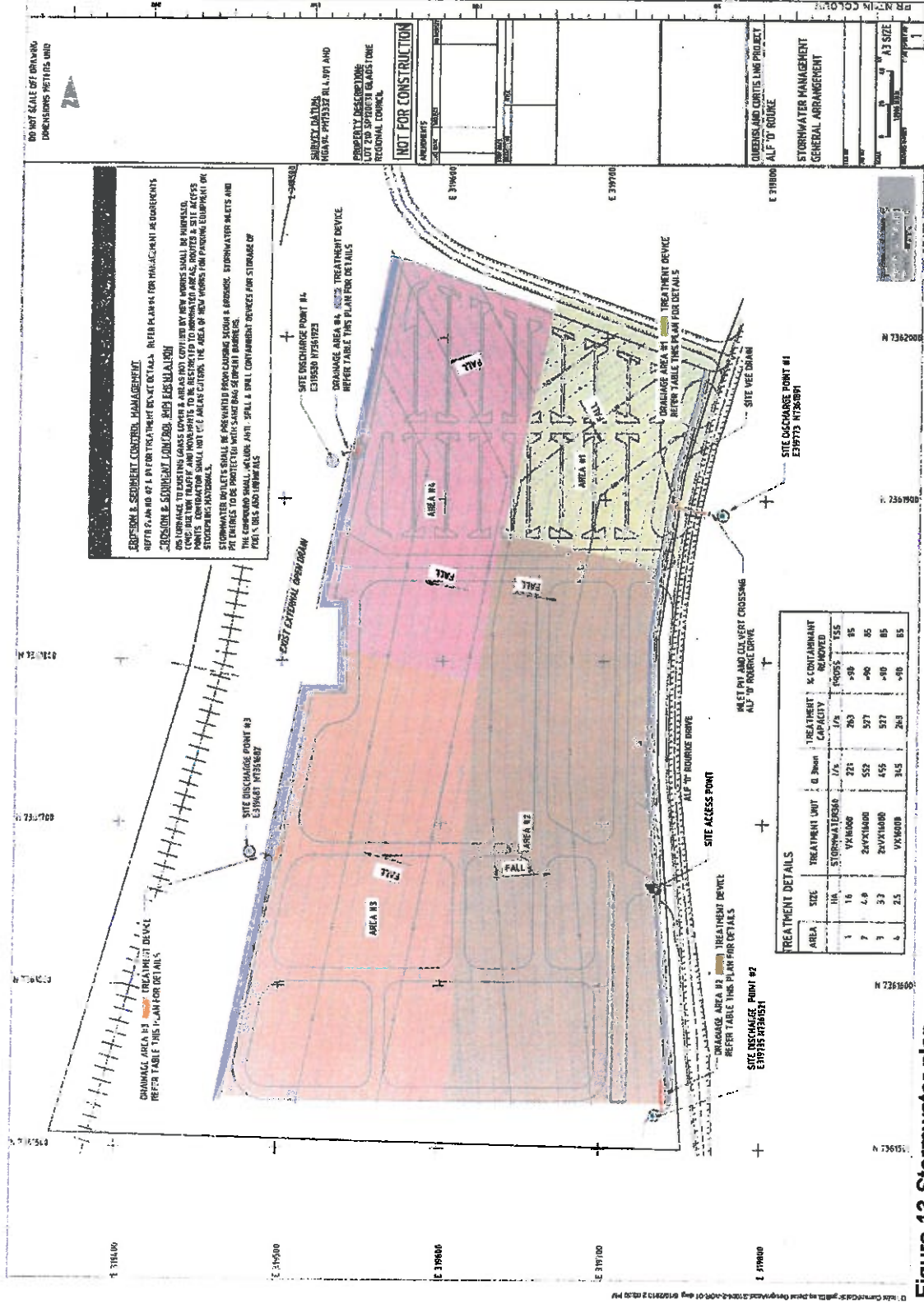


Figure 13 Stormwater plan



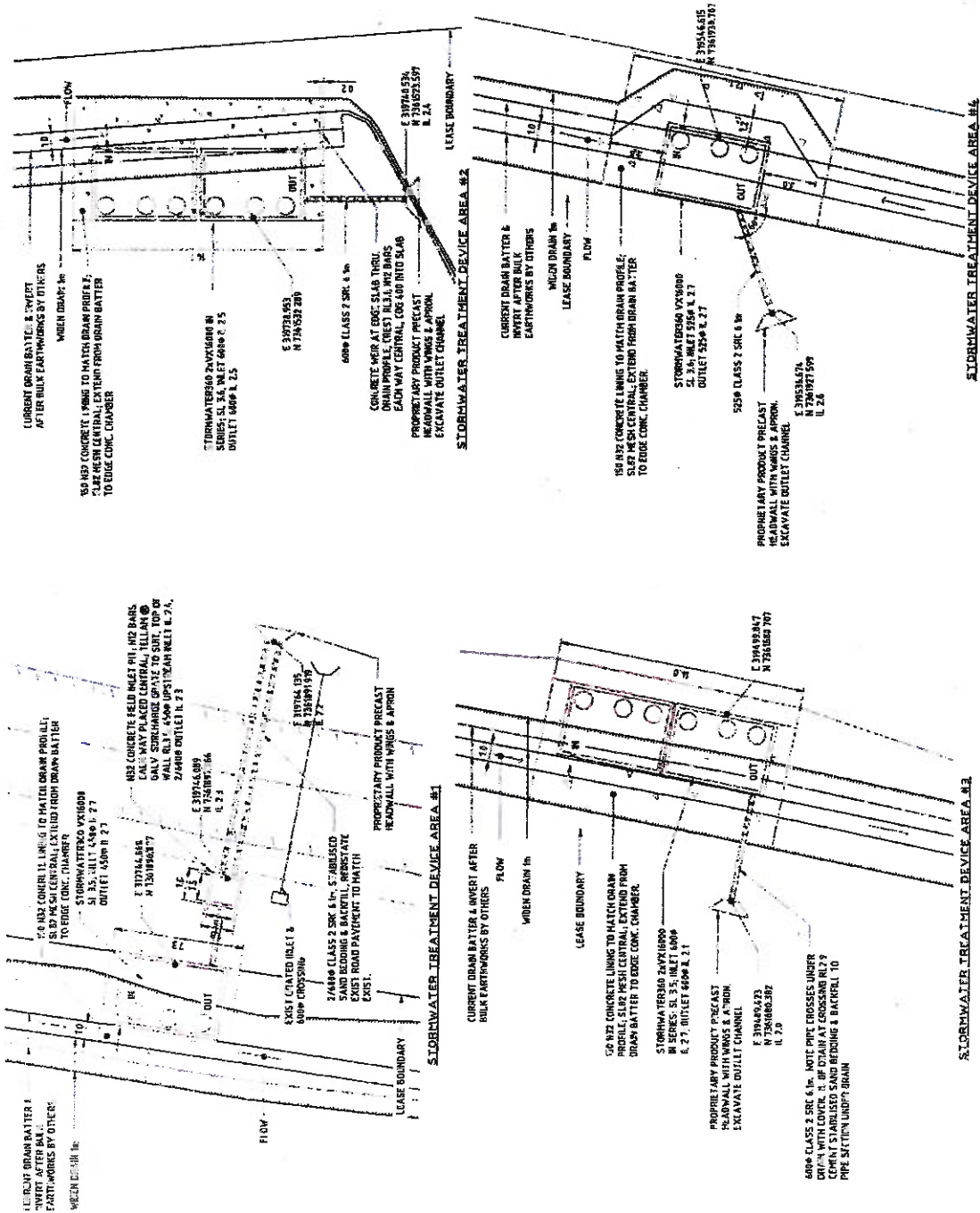


Figure 14 Stormwater treatment devices

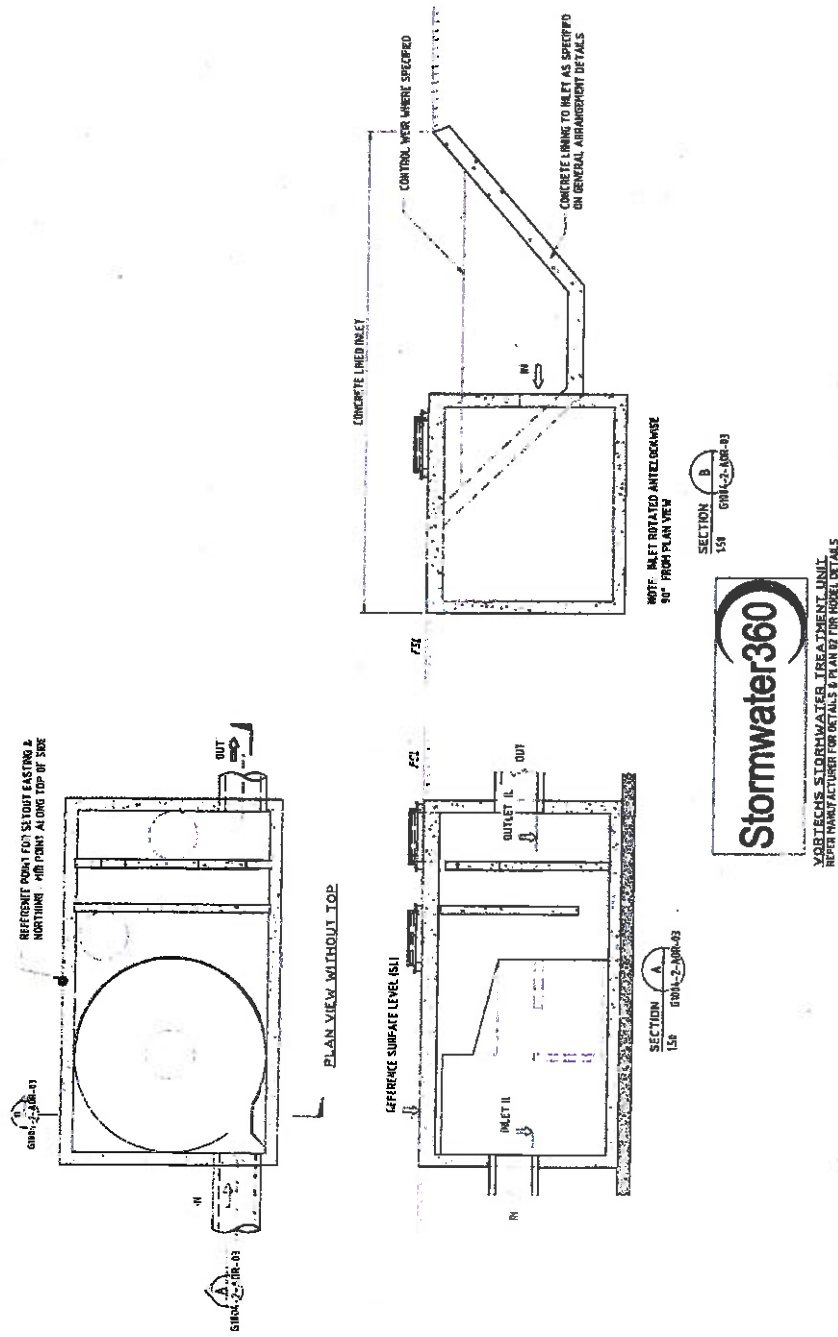


Figure 15 Stormwater treatment device details

## Appendix 1. Environmental Inspection Checklist

Alf O'Rourke Vehicle and Cargo Consolidation Facility Environmental Inspection Checklist					
Item	Compliant	Not Compliant	Not applicable	Action required	Comments or actions required
<b>General</b>					
Is the site clean and free of rubbish and litter?					
Are work areas clean?					
Is the site free of weeds?					
Are there any signs of red imported fire ants?					
Is there any ponded water?					
Is equipment free of oil leaks?					
Is the ground free of contamination (oil stains)?					
Are the activities being undertaken at the site in accordance with the GPC approval?					
Is the site security fence effective?					
Have site induction forms been filled out and are new ones available?					
Is there a register of waste tracking certificates?					
Is there a register of and copies of movement certificates?					
Have there been any complaints about the site or the operation of the site relating to: noise; dust; odour; lighting; traffic; water quality; waste or other?					
<b>Noise and vibration</b>					
Are noise levels acceptable?					
Is the site being used after hours (after 6:30 pm and before 6:30am)?					
Are any noise generating equipment close to offices, work areas and crib rooms?					
Is all operating equipment fitted with effective mufflers or silences?					
<b>Erosion and sediment control</b>					
Are any erosion and sediment control devices effective and maintained?					

Are sediment traps free flowing?					
Do the gross pollutant traps have sufficient available capacity?					
Are swale drains free of rubbish and debris?					
<b>Surface water quality</b>					
Are there any visible sediment plumes in waters near the release points?					
Are there any visible oil sheens in and around the release points?					
Has monitoring of surface water quality been undertaken?					
Has there been any release of water not in accordance with the approval conditions?					
<b>Waste</b>					
Are there sufficient bins, skips and recycling bins on the site?					
Is there sufficient remaining capacity in the bins and skips?					
Is there any waste oil on the site?					
<b>Material storage</b>					
Are fuels, oils or degreasers stored on site?					
If any, are fuels, oils or degreasers stored within a bunded area that complies with AS1940?					
Are all chemical/fuel storage tanks less than 10m <sup>3</sup> in capacity?					
Are there any hazardous or corrosive substances stored on the site?					
Is there a register of hazardous or corrosive substances stored on site?					
Are SDS available for any hazardous materials/chemicals that are stored on site?					
Are there any spill kits on site?					
Are there any emergency wash facilities on site and are they in working order?					
<b>Air Quality</b>					
Are there any visible signs of dust emissions from the site?					
Are there any visible emissions from vehicle and equipment?					
Is there any odour at the site?					
<b>Other issues</b>					




<b>Inspection completed by:</b>	<b>Name:</b>
	<b>Signature</b>
	<b>Date:</b>
<b>Corrective actions logged in the appropriate register.</b>	<b>Yes / No Comments:</b>
<b>HSSE Manager:</b>	<b>Name:</b>
	<b>Signature:</b>
	<b>Date:</b>