



Application Number: DA/4673:AD2024/0000136

3 April 2024

Cook Shire Council PO Box 3 Cooktown QLD 4895

RE: Information Request Response under section 13 of the Development Assessment Rules

Dear Cook Shire Council,

In accordance with Part 3 section 13 of the *Development Assessment Rules*, Downer on behalf of Telstra, provides response to Cook Shire Council's (Council) Information Request dated 16 January 2024 for the development application for a Telecommunications Small Cell Facility (the proposed facility) at Musgrave Roadhouse, Peninsula Developmental Road, Yarraden (Lot 1 on SP314593).

Information Request Response

Request Item 1: Sire Details

Please find attached with this letter, amended plans showing the requested items.

Request Item 2: Character Overlay code

The development has received an exemption certificate, please find attached with this letter.

Request Item 3: Flood and Other Coastal Hazards Overlay Code

As requested, an amended planning report is attached with this letter, please refer to section 5.3.1.3 of the report.

Downer would like to formally request Council to consider the above Information Request Response and please advise if any further information is required.

Yours sincerely

Liz Mansell

Wireless Senior Town Planner

Downer





DEVELOPMENT APPLICATION

Proposed Telecommunications Facility at
Musgrave Roadhouse
Peninsula Developmental Road, Yarraden QLD 4892
Lot 1 SP 314593

Prepared on behalf of Telstra Corporation Limited ACN 086 174 781 by Downer EDI Engineering Pty Limited ABN 66 057 593 503

Date | December 2023 (amended) Reference | Musgrave Roadhouse

> Downer EDI Engineering Pty Limited Level 11, 135 Coronation Drive Milton QLD 4064 T 04 18 698 701 www.downergroup.com.au





1.0	Executive Summary	2
2.0	Introduction	3
2.1	1 Why is a New Mobile Phone Small Cell Required?	3
3.0	Site Selection	
3.1	1 Colocation Opportunities	5
4.0	Scope of Works	
4.2	2 Access to the Site	6
	3 Utilities	
5.0	Key Regulatory Framework	6
5.1	1 Federal Regulatory Framework	6
	5.1.1 Telecommunications Act 1997	
į	5.1.2 Telecommunications Code of Practice 2018	7
;	5.1.3 Telecommunications (Low-impact Facilities) Determination 2018	7
;	5.1.4 Mobile Phone Base Station Deployment Code	7
	5.1.5 Environment Protection and Biodiversity Conservation Act 1999	
;	5.1.6 Civil Aviation Safety Authority	8
5.2	2 State Regulatory Framework	8
	5.2.1 Planning Act 2016	
	5.2.2 State Planning Policies	
	5.2.3 Referral Agencies	
	3 Local Regulatory Framework	
	5.3.1 Cook Shire Council Planning Scheme 2017	
6.0	Development Impacts	.12
6.1	1 Heritage	. 12
6.2	2 Noise and Vibration	. 12
6.3	3 Traffic	. 12
6.4	4 Erosion and Sediment Control	. 13
6.5	5 Health and Safety	. 13
7.0 C	Conclusion	.15
Appe	endix A – Proposed Plans	.17
Appe	endix B – EME Report	.18
	endix C – Precautionary Approach Checklist (PAC) to Site Selection & Site Design and Traffic Light el (TLM)	
	endix D – Cultural Heritage Search	
	endix E – Cultural Heritage Risk Assessment	
	endix F – State Code 1: Development in a state-controlled road environment	





1.0 Executive Summary

	T		
Proposed Development	Downer EDI Engineering Pty Limited (Downer) on behalf of Telstra		
	Corporation Limited (Telstra) seeks to establish a new mobile		
	phone small cell facility at Musgrave Roadhouse. The proposed		
	scope of works is inclusive of the following:		
	The installation of a new 20m monopole (overall height		
	including antenna protrusion 21.4m)		
	The installation of one (1) omni antenna on top of the		
	monopole		
	 The installation of one (1) equipment cabinet at the base 		
	of the monopole		
	 The installation of one (1) GPS antenna on top of the 		
	cabinet		
	The installation of associated ancillary equipment including		
	feeders, cabling, electrical equipment, signage and other		
	associated equipment.		
Coverage Objectives	It has been identified that there is a requirement to provide		
	improved mobile phone coverage and capacity the roadhouse. The		
	proposed facility will help improve customer voice and data		
	services within the area to fulfil the defined stipulations.		
Property Details	Address: Peninsula Developmental Road, Yarraden QLD 4892		
	Legal Description: Lot 1 SP314593		
Property Owner	Mary McDowall		
Relevant LGA, Zoning and	Local Government Area: Cook Shire Council		
Principal Designated Land	Local Planning Policy: Cook Shire Council Planning Scheme 2017		
Use	Zoning: Rural		
Applicant:	Telstra Corporation Ltd ACN 086 174 781		
	C/- Downer EDI Engineering Pty Limited ABN 66 057 593 503		
	Level 11, 135 Coronation Drive, Milton QLD 4064		
	Contact: Liz Mansell		
	T 0418 698 701		
	<u>Liz.Mansel@downergroup.com</u>		





2.0 Introduction

Downer EDI Limited (Downer) have been engaged by Telstra Corporation Ltd (Telstra) to design and construct a new telecommunications small cell facility at Musgrave Roadhouse, Peninsula Developmental Road, Yarraden QLD 4892

As part of Telstra's commitment to regional Australia, Telstra is excited to bring high-speed mobile internet to even more communities around the country as part of the Federal Government's Mobile Black Spot program.

Telstra, as a licensed telecommunications carrier, must operate under the provisions of the Telecommunications Act 1997 and the Telecommunications Code of Practice 1997. In some instances, the 1997 Act exempts carriers from the requirements of State and Territory planning legislation when the proposed facility is compliant with the Telecommunications (Low Impact Facilities) Determination 2018. In this instance the proposal is not deemed to be "low impact" as it involves the installation of a new 20m monopole and is therefore not exempt from planning requirements. Accordingly, a planning permit is sought from Cook Shire Council accordance with the Cook Shire Council Planning Scheme 2017.

An assessment of the environmental impacts associated with the proposed development and its compliance with the regulatory framework is discussed in Sections 5 and 6. Telstra, as a licensed carrier, must also operate under the provisions of the Communications Alliance Ltd Industry Code C564:2020 (the Deployment Code) for the Deployment of Mobile Base Station Infrastructure, and in particular, must adopt the precautionary approach as detailed under Section 8 and 4.2.3 of the Deployment Code. This report has been prepared in accordance with the Deployment Code.

It is deemed that the proposal demonstrates sufficient merit to warrant the requested development approval.

2.1 Why is a New Mobile Phone Small Cell Required?

The Federal Government's Mobile Black Spot Program has identified a need to improve mobile phone service to Musgrave Roadhouse.

This program will deliver mobile coverage to a large number of regional and remote communities who, for the first time, will be able to access fast mobile voice and data services. The improved coverage is increasing access to new technologies for key regional sectors like agriculture, transport, mining and tourism – technologies which rely on a fast, reliable and affordable mobile network.

The Mobile Black Spot Program builds upon significant investments already undertaken by Telstra to expand and upgrade our mobile network. Telstra's partnership with the Federal Government will involve Telstra investing up to \$290 million of their own funds to build over 880 new sites under all rounds of the Mobile Black Spot Program. This is over and above the billions of dollars Telstra have spent on our mobile network in recent years.

Telstra have worked with State and Local Governments, to attract tens of millions of dollars in additional targeted funding. This means we're able to deliver a combined investment of over \$640 million for regional telecommunications under the program.





Telstra is committed to providing improved mobile coverage to regional and remote Australia. In the five years to end June 2020, Telstra invested \$7.5bn in our mobile network nationally with \$3bn of that invested in regional areas alone. Telstra continues to invest significantly in maintaining and expanding our mobile network across Australia.

By way of a background:

Mobile phones and mobile broadband devices continue to play an important role in the lives of Australians. This includes providing the fundamental ability to be in contact with family and friends, operating businesses more efficiently and effectively as well as dialing triple 0 during a natural disaster or other emergency.

Because of the ever-growing demand for more data and better reception, mobile phone carriers such as Telstra continually have to upgrade and expand mobile phone networks to eliminate coverage black spots and to keep up with the demands and expectations placed upon them by the community.

As the incumbent telco Telstra knows how important access to modern telecommunications infrastructure is and in order to remedy the lack of mobile phone coverage in the aforementioned areas Telstra proposes a Telecommunications small cell facility at Musgrave Roadhouse.

3.0 Site Selection

Carriers and mobile phone network operators have an obligation under the Industry Deployment Code (C564:2020) to utilise and upgrade existing infrastructure as opposed to developing new sites. However, in this instance this was unachievable due to numerous constraints.

Telstra commences the site selection process with a search of potential sites that meet the network's technical requirements, with a view to also having the least possible impact on the surrounding area. Telstra applies and evaluates a range of criteria as part of this site selection process.

Telstra assesses the technical viability of potential sites through the use of computer modelling tools that produce predictions of the coverage that may be expected from these sites, as well as from the experience and knowledge of the radio engineers.

There are also a number of other important criteria that Telstra uses to assess options and select sites that may be suitable for a proposed new facility. These take into account factors other than the technical performance of the site, and include:

- The potential to co-locate on an existing telecommunications facility;
- The potential to locate on an existing building or structure;
- Visual impact and the potential to obtain relevant town planning approvals;
- Proximity to community sensitive locations and areas of environmental heritage;
- The potential to obtain tenure at the site; and
- The cost of developing the site and the provision of utilities (power, access to the facility and transmission links).

Accordingly, this section of the report will demonstrate the following:

- Colocation opportunities and existing telecommunications infrastructure within proximity to the proposed installation: and
- An analysis of the locations considered when determining an appropriate location for a new telecommunications installation within the required coverage area.





3.1 Colocation Opportunities

The Communications Alliance Ltd. Industry Code C564:2020 - Mobile Phone Base Station Deployment promotes the use of existing sites in order to mitigate the effects of facilities on the landscape. It should also be noted that as a first preference, Telstra attempts to utilise, where possible, any existing infrastructure or co-location opportunities.

Below is a map of existing and proposed telecommunications facilities surrounding the area. Given the distance between the existing facilities, the location of the proposed monopole is essential in providing the roadhouse within coverage.

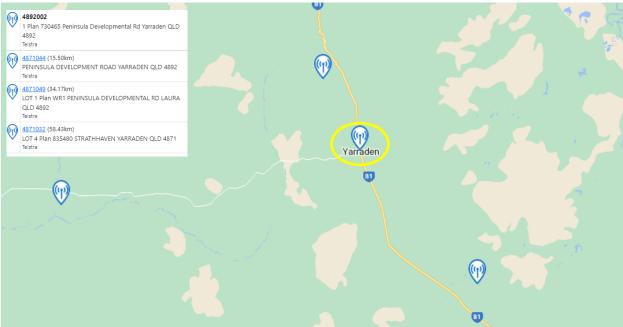


Figure 1 – Location of nearby existing telecommunications facilities (Source: www.rfnsa.com.au)

4.0 Scope of Works

The proposed scope of works is inclusive of the following:

- The installation of a new 20m monopole (overall height including antenna protrusion 21.4m)
- The installation of one (1) omni antenna on top of the monopole
- The installation of one (1) equipment cabinet at the base of the monopole
- The installation of one (1) GPS antenna on top of the cabinet
- The installation of associated ancillary equipment including feeders, cabling, electrical equipment, signage and other associated equipment.

As previously specified, Telstra has an obligation under the Industry Deployment Code to ensure that all suitable alternatives have been explored as part of the justification behind this development application. It is believed that proposed works as outlined above will not result in any adverse visual or environmental impacts to the surrounding environs within the locality.





Access to the proposed site will be conducted through the existing site access through the existing caravan park entry gate, see site layout page on proposed plans. This route enables access off a roadway which will repeal any disruptions to traffic flow for construction vehicles during the build phase and any future required maintenance. The available access is of sufficient size for vehicle manoeuvring. Traffic management will be utilised during construction as necessary.

There is ample existing parking on site for vehicle activities during the construction phase. Given the minor amount of traffic generated by the proposal (expected to be 2-4 trips per year), it is not believed that any additional formal parking or manoeuvring areas are required.

4.3 Utilities

The final power design including the capacity of the supply will be confirmed in the detailed design phase, however, a major upgrade is not anticipated. Indicatively, a power upgrade is required at the existing meter on the subject site which will deliver power to the new proposed Telstra site. A standard power application will be submitted for approval and all new low voltage cable on the site will be installed underground.

The unmanned facility does not require access to water or sewer infrastructure. The proposal will not alter stormwater runoff from the site, given the very minimal hardstand area.

The site does not require any additional permits for the connection of a sewer/roadway.

5.0 Key Regulatory Framework

5.1 Federal Regulatory Framework

The following information provides a summary of the Federal legislation relevant to telecommunications development proposals.

5.1.1 Telecommunications Act 1997

The Telecommunications Act 1997 (the Act) came into operation on 1 July 1997. The Act provides a system for regulating telecommunications and the activities of carriers and service providers.

Under the Act, telecommunications carriers are no longer exempt from State and Territory planning laws except in three limited instances:

- There are exemptions for the inspection of land, maintenance of facilities, installation of "low impact facilities", subscriber connections and temporary defence facilities. These exemptions are detailed in the Telecommunications (Low-impact Facilities) Determination 2018 and these exemptions are subject to the Telecommunications Code of Practice 2018
- 2. A limited case-by-case appeals process exists to cover the installation of facilities in situations of national significance; and
- 3. There are some specific powers and immunities from the previous Telecommunications Act 1991.





5.1.2 Telecommunications Code of Practice 2018

The Telecommunications Code of Practice 2018 (The Code) authorizes a carrier to enter land, inspect land and install and maintain a facility. The Code emphasizes "best practice' for the installation of facilities, compliance with industry standards and minimization of adverse impacts, particularly in terms of degradation of the environment and visual impact. The proposal is considered to comply with "best practice" given the proposal will:

- Provide improved telecommunications and wireless internet coverage in the area;
- Be located on a non-residential site within the local area, which maximizes separation to residential and other sensitive uses; and
- Comprises the smallest configuration possible for the site to reduce the visual impact of the proposal, while providing appropriate coverage to the surrounding area.

5.1.3 Telecommunications (Low-impact Facilities) Determination 2018

The Telecommunications (Low-impact Facilities) Determination 2018 came into effect in March 2018.

The *Determination* contains a list of Telecommunications Facilities that the Commonwealth will continue to regulate. These are facilities that are essential to maintaining telecommunications networks and are unlikely to cause significant community disruption during their installation or operation. These facilities are therefore considered to be 'Low-impact' and do not require planning approval under State or Territory laws.

The proposed facility does not fall under the *Determination* and, therefore, requires approval under State Planning Legislation.

5.1.4 Mobile Phone Base Station Deployment Code

The new Communications Alliance Ltd. *Industry Code C564:2020 – Mobile Phone Base Station Deployment* (referred to as the Deployment Code), replaced the 2018 version of the Deployment Code.

Similar to the previous Code, the Deployment Code does not change the existing regulatory regime for telecommunications at Local, State or Federal levels. However, it supplements the existing obligations on Carriers, particularly in relation to community consultation and the consideration of exposure to radio signals, sometimes known as electromagnetic energy (EME or EMR).

The *Code* imposes mandatory levels of notification and community consultation for sites complying with the *Telecommunications* (*Low-impact Facilities*) *Determination 2018*. It identifies varying levels of notification and/or consultation depending on the type and location of the proposed infrastructure.

The subject proposal, not being designated a 'Low-impact' Facility', is not subject to the notification or consultation requirements associated with the Deployment Code. These processes are handled within the relevant State and Local consent procedures.

Nevertheless, the intent of the *Code* is to ensure Carriers follow a 'precautionary approach' to the siting of infrastructure away from sensitive land uses and this approach has been followed in the selection of this site, as demonstrated in the *Deployment Code* section 4.1 and 4.2 Precautionary Approach Checklists. The checklists will be uploaded to the RFNSA website, reference number 4892002.





Included in these section's Checklist is a statement of how the public's exposure to EME from the site has been minimised. All emissions from the site will be well within the requirements of the relevant Australian Standard. Details of this standard are contained in the following section.

This site has been selected and designed to comply with the requirements of the *Deployment Code* in so much as the precautionary approach has been adhered to and, as a result, the best design solution has been achieved.

5.1.5 Environment Protection and Biodiversity Conservation Act 1999

The Environmental Protection Biodiversity Conservation Act (the EPBC Act) controls matters of national environmental significance. The EPBC Act relates to matters of national environmental significance, including world heritage areas, natural heritage places (including declared RAMSAR wetland areas), listed threatened species in communities, listed migratory species, protection of environment on nuclear actions, and environment matters.

The proposal is not identified as having a significant impact on any of the above matters of national environmental significance. Therefore, the proposal does not require a referral to the Government Minister for the Environment for assessment.

5.1.6 Civil Aviation Safety Authority

The proposed structure is under 30m in height and therefore is not required to be reported in accordance with the CASA publication AC139.08 "Reporting Tall Structures".

5.2 State Regulatory Framework

5.2.1 Planning Act 2016

The proposed telecommunications facility is not considered a low-impact facility and is therefore subject to the Planning Act 2016 and Planning Regulation 2017. The proposal is for the start of a new use and therefore requires a development permit for a material change of use (MCU) prior to the commencement of the use on the site.

Assessment against Council's planning scheme identifies the proposed use as requiring Impact Assessment. Pursuant to section 43 of the Planning Act 2016, the application must therefore be assessed against assessment benchmarks of the Central Highlands Regional Council Planning Scheme 2016.

5.2.2 State Planning Policies

On 3 July 2017, the Queensland Government adopted its new single State Planning Policy (SPP). The SPP replaces the previous multiple policies in existence. The SPP sets out policies on matters of state interest in relation to planning and development and provides a key framework for the government's broader commitment to planning reform. The SPP identifies the state's interests in planning and development and how these are to be dealt with in planning instruments, Council development assessment processes and in designating land for community infrastructure.





All aspects of the SPP have been integrated with the planning scheme. As such, assessment against any applicable policies will be covered in the planning scheme assessment.

5.2.3 Referral Agencies

The State Assessment and Referral Agency (SARA) is the entity within the Department of State Development, Manufacturing, Infrastructure and Planning that is responsible for referrals of applications regarding a State interest. The State Development Assessment Provisions (SDAP) is an outcome of the SARA, which identifies State interests for development assessment.

An assessment of the proposal against the State assessment criteria determines that the proposal is located in a State Transport Corridor – State-controlled Road and Area within 25m of a State-controlled Road. Pursuant of Schedule 10, Division 4, Table 4, Item 1 of the Planning Regulation 2017, the application triggers referral to SARA. Specifically, the Schedule states:

Development application for a material change of use, other than an excluded material change of use, that is assessable development under a local categorising instrument, if all or part of the premises—

(a) are within 25m of a State transport corridor

In accordance with the above, the State code 1: Development in a state-controlled road environment has been prepared (Appendix E).

Additionally, the development is located in a State Heritage area, the proposal is currently seeking confirmation on whether the development can apply for and be accepted under a Heritage Exemption Certificate. Once an outcome on this is advise, the applicant will advise Council.

5.3 Local Regulatory Framework

The following information provides a summary of the local provisions relevant to telecommunications development proposal.

5.3.1 Cook Shire Council Planning Scheme 2017

The proposed telecommunications facility is located in the Rural Zone and under the Cook Shire Council Planning Scheme 2017, the use is not listed in the tables of assessment and therefore deemed Impact Assessable. The below sections address the relevant codes and frameworks of the Scheme.

5.3.1.2 Strategic Framework

The strategic framework sets the policy direction for the planning scheme and forms the basis for ensuring appropriate development occurs in the planning scheme area for the life of the scheme.





Musgrave Roadhouse is within the Rural area of the strategic map and as the roadhouse has specifically requested the facility to provide service to the roadhouse. The telecommunication facility supports the five themes of the policy as follows:

Economic Wellbeing

The proposed telecommunication facility will support economic wellbeing through location and tourism, where the facility will provide support and connectivity to ensure business and tourism of the roadhouse thrives. There is currently no wireless mobile service at the roadhouse. Providing mobile internet connectivity will further boost economic and social activity for the area. As the roadhouse is very remote, the facility will provide the opportunity for the occupiers and visitors to connect virtually to further support the business and social aspects for the roadhouse. Additionally, the mobile service provides opportunity to diversify and grow the tourism industry, where online socials and websites can put Musgrave Roadhouse on the map and further educate the community on its historical significance and outback nature.

Land Use Pattern

The proposed telecommunications facility will adhere to Council's *Community Plan 2011-2021*, where communications infrastructure is highlighted as a main need for the local residents. Given the need for communications at the roadhouse and the minor footprint of the facility, the proposal will be in line with Council's strategic outcomes for the Shire.

Environmental Wellbeing

This part of the policy is to ensure a balanced goal to achieve the protection of natural resources from incompatible uses. The proposed telecommunication facility adheres to the policy's strategic outcomes through locating the development in a location that avoids significant adverse environmental impacts, ensuring areas of environmental significance are protected and enhanced. As mentioned in Section 6.4 and 6.5 of this report, the development ensures erosion control, water quality and air quality are managed and protected.

Infrastructure and Servicing

Council's *Community Plan 2011-2021* identifies communication infrastructure as an important service to include in the Shire's infrastructure and servicing strategy. The proposed development will provide this which will provide essential infrastructure to the roadhouse. The telecommunications facility will not only provide the roadhouse and surrounds with economic value and support, it will also provide contact to emergency services in case of an emergency.

Strong Communities

The proposed telecommunications facility will help support the three themes in the Community Plan through keeping the remote roadhouse connected and safe when at home or in the area and during emergencies. Through providing an essential service that is now expected in most places people go. The development will respect identity and integrity of the area and Shire, locating in a spot that does not impact any cultural values and will further protect and enhance heritage and visual amenity.





The purpose of the Rural Zone is to provide rural uses and activities and other uses and activities compatible with the existing and further rural uses, character and environment of the zone. The facility's location was selected by the roadhouse to service the roadhouse and will not impact on the existing or future uses of the roadhouse and surrounding rural uses. The facility will provide improved ongoing service for rural activities with appreciation of the existing character, landscape and community. The zoning is considered appropriate for the proposal, as it is considered a small-scale activity that will retain and protect rural uses, activities and environmentally sensitive areas, which is further demonstrated below.

Assessable benchmarks - Compliance

PO1 compliance: The scale, density and height of the proposed telecommunications facility will be higher than the prescribed 8.5m, totaling an overall height of 21.4m. This height is necessary to ensure the coverage objectives are fulfilled. The proposed antenna is required to be higher than the existing buildings and trees, so no obstructions diminish the required coverage to service the roadhouse.

PO2 compliance: The development will be over 50m from Peninsula Developmental Road.

PO3 compliance: The development will be unoccupied and will not require noise mitigation design.

PO4 compliance: Not applicable.

PO5 compliance: The development will be over 50m from Peninsula Developmental Road.

PO6 compliance: Not applicable.

PO7 compliance: Not applicable.

PO8 compliance: Not applicable.

PO9 compliance: As mentioned in PO1 compliance, the proposal is designed at a minimum height to service the roadhouse. The development will be a slimline design and located at the rear of the property so it is not impacting the existing amenity of the area. The development will not be overbearing or overshadowing.

5.3.1.3 Flood and Coastal Hazards Overlay

The proposal is situated in the Potential Flood Hazard area of the Flood and Coastal Hazards Overlay map. Further site information from the roadhouse management and owner have confirmed the site location has not experienced a flood event. Below demonstrates compliance with the Flood and Other Coastal Hazards Code.

Assessable benchmarks - Compliance

PO1 compliance: The proposed location has been selected by the landowner and approved by RF engineers to adequately service the property without impacting the current roadhouse use or aesthetic of the heritage character. A small cell is required to be located close to the target area (existing use), locating too far away will impact the desired coverage. No other location outside the flood overlay works in this aspect.

PO2 compliance: As mentioned above, there is no other suitable location for the proposed facility. As the facility will operate unoccupied and does not contain habitable development, the proposal is not required to be elevated. However, the proposed equipment cabinet can be elevated to design standard of 500mm protect the equipment in the event of a flood.





PO3 compliance: The development will not increase people at risk from flooding or number of people required for evacuation. The development will not shorten warning times or impact access or traffic on site. The proposal will provide essential mobile coverage to contact emergency services in the event of a flood.

PO4 compliance: The development will not be located in a medium or high hazard area.

6.0 Development Impacts

This section takes into consideration matters of relevance to the proposed development which is inclusive of issues relating to the environmental impacts of the proposal on the built and natural form, as well as the social and economic impacts the telecommunications facility will have on the locality.

As the proposed site is situated within a cleared portion of land, it is believed that the proposed facility will not result in environmental impacts towards the built and/or natural environments. The "footprint" of the proposal will not require any vegetation clearance. The following environmental, social and economic considerations have been made in reference to the proposal.

6.1 Heritage

In order to determine any possible natural or cultural values of state or national significance associated with the site a search was conducted through the relevant Heritage Registers. A Cultural Heritage Database and Register Search Report has shown 5 site points within the property and a 100m buffer (Appendix D). The proposed location is not in proximity to these points and a Cultural Heritage Risk Assessment (Appendix E) has identified the development as Category 2 or 3 where it is generally unlikely that the activity will harm cultural heritage and the activity will comply with the Duty of Care Guidelines. As noted in the risk assessment, in these circumstances, it is reasonable and practicable for the activity to proceed without further Cultural Heritage Assessment or consultation with the Aboriginal Party/ies. Note: Upon the discovery of a potential Cultural Heritage Find during Category 2 or 3 works, a stop works direction shall be initiated and the actions outlined in the Find – Stop – Notify – Manage Work Instruction must be followed immediately.

6.2 Noise and Vibration

There will be no noise or vibration impacts associated with the operation of the facility. The equipment shelter will emit only minimal noise from the air conditioning units, which will enable the equipment to stay within normal operating temperatures. It is believed that the operation of the air conditioning units will not result in any adverse noise impacts to the nearest sensitive noise receptors given the isolated location of the proposed equipment shelter in the context of the area.

During construction, there will be some minor excavation works which may introduce noise and vibration for a temporary period. Due to the isolated context of the development, it is anticipated that the construction and operation of the facility will not generate any adverse noise impacts on surrounding land uses.

6.3 Traffic





Mobile phone base stations are not significant generators of pedestrian or vehicular traffic. The site encompasses sufficient parking within the existing lot for construction vehicles and workers. During construction, a crane/EWP will be required to be temporarily mounted on site. It is not anticipated that there will be any adverse disruptions to the road during the construction phase or the ongoing operation of the facility. Throughout the lifecycle of the telecommunications facility, it is only required to be visited on a quarterly basis throughout the year for maintenance purposes.

Therefore, this proposal does not constitute any impacts to existing traffic flows within the locality. If a road closure is required for the erection and installation of equipment, the appropriate approvals will be obtained from the relevant authority (where applicable).

6.4 Erosion and Sediment Control

Erosion and sediment controls will be implemented prior to the commencement of any construction works and will be maintained throughout the construction phase to manage potential run off, water and air quality during construction.

The development will not induce any soil erosion or siltation. The proposal will immediately reinstate all sediment that is temporarily extracted to install the required structural footings. No external soil or sediment will be introduced to the existing vegetation.

Measures that are to be implemented include:

- All construction plant, equipment and vehicles are to be properly maintained and operated so as to alleviate excessive exhaust emissions;
- Waste loads leaving the site are to be covered at all times;
- Ensuring stock piles do not exceed 2.5m in height and wetting down any exposed areas and stockpiles as required;
- All dust generating construction activities are to cease during high wind conditions, unless
 operations can be controlled by localised watering or other control means; and
- Scaffolding will include mesh and shade cloth to reduce wind velocity and also to trap any windborne objects.

To ensure water quality is maintained, minor elements of storm water attenuation works will be provided including sandbags and hay bales to ensure excess sediment does not run off site. There are no hard-standing surfaces and/or drainage points within the immediate proximity of the construction site.

6.5 Health and Safety

Telstra understands that some people have genuine concerns about the levels of electromagnetic fields (EMF) that the proposed facility will emit and is committed to addressing those concerns responsibly. EMF is sometimes known as electromagnetic radiation (EMR) or electromagnetic energy (EME). Often, there is a misconception regarding the perceived health risks surrounding mobile phone base stations and Electromagnetic Energy (EME).

Electromagnetic fields are present everywhere in our environment – the earth, sun and ionosphere are all natural sources of EMF. Telstra and Downer rely on the expert advice of international and national health authorities including the World Health Organization (WHO) and the Australian Radiation





Protection and Nuclear Safety Agency (ARPANSA) for overall assessments of health and safety impacts. The International Commission on Non-Ionizing Radiation Protection (ICNIRP) has issued guidelines on levels of allowable public exposure to Radio Frequency (RF) fields, including guidelines on RF from mobile phones and base stations, which Telstra adheres to. These guidelines have a large safety margin built into them.

EME is non-ionising radiation, meaning that it has insufficient energy to break chemical bonds or remove electrons (ionisation). In contrast, ionising radiation (such as X-rays) can remove electrons from atoms and molecules thus leading to damage in biological tissue (Source: ARPANSA).

On numerous occasions over the past 10 years the Victorian Civil and Administrative Tribunal has ruled that in regard to EME, that it was obliged to apply the relevant regulatory standards as it finds them - not to pioneer standards of its own. It states that the creation of new standards is a matter for other authorities with special expertise such as the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

In addition, further information is available at: www.telstra.com.au/eme and EMF Explained Series www.emfexplained.info.

It is Telstra's obligation to comply with the mandated standard (RPS3) for EMF set by ARPANSA, which is based on the safety guidelines recommended by the WHO. The safety standard works by limiting the network signal to a level which will protect all people, in all environments, 24 hours a day.

To demonstrate compliance with the safety standard, an Environmental EME Report is available in Appendix B or via the RFNSA website www.rfnsa.com.au (search site number 4892002).

The EME Report predicts the maximum signal strength from the proposed facility at 1.5m above ground level is well within the allowable limit. This is typical of Telstra's responsible approach to network performance and environmental compliance.

Furthermore, the ARPANSA Fact sheet "Mobile Base Stations and Health" March 2015 states "Health authorities around the world, including ARPANSA and the WHO have examined the scientific evidence regarding possible health effects from base stations. Current research indicates that there are no established health effects from the low exposure to the RF EME exposure from mobile phone base station antennas."

Telstra undertakes further measures when designing the facility, to minimise the EME exposure to the general public, by installing the facility in accordance with the Australian Mobile Telecommunications Association (AMTA) Radio frequency (RF) Safety Compliance Program — Base Station Design Guidelines Engineering for Access Control to minimise EME.

Other preventative measures also include:

- Power Control network feature that automatically adjusts the power of the network transmission based on consumer demand.
- Varying the facility's transmit power to the minimal required level in order to save electricity and lower RF emissions from the facility.

Further information about EMF can be obtained from:

- Commonwealth Department of Health (ARPANSA): www.arpansa.gov.au
- Australian Communications and Media Authority (ACMA): www.acma.gov.au
- World Health Organisation (WHO): www.who.int/en/





7.0 Conclusion

The proposal at Musgrave Roadhouse seeks to provide new coverage to the area as part of the Federal Government's Mobile Phone Black Spot Program, providing much needed voice and data services to the area. The site has a number of characteristics that make it suitable for the construction of a new telecommunications facility in the manner proposed. The drawings respond to the principles of design, siting, construction and operation of telecommunications facilities as specified in the Code of Practice whilst meeting state and local planning policy objectives.

The proposed works provide the community with reliable 4G access which in turn supports the various rural industries in the region and forms part of a wider plan to ensure reliable and accessible coverage during emergency situations such as floods and bushfires.





Telstra, together with Downer have undertaken an assessment of the relevant matters as required by the Telecommunications Act 1997 and the Cook Shire Council Planning Scheme 2017. The proposal is considered appropriate in light of the relevant legislative, environmental, technical, radio coverage and public safety requirements.

Based upon the above, we respectfully request Cook Shire Council Council approve the application and issue a development permit for a telecommunications small cell facility at Musgrave Roadhouse, Peninsula Developmental Road, Yarraden, subject to reasonable and relevant conditions, and in accordance with the plans attached in *Appendix A*.





Appendix A – Proposed Plans





Appendix B – EME Report





Appendix C – Precautionary Approach Checklist (PAC) to Site Selection & Site Design and Traffic Light Model (TLM)













Appendix F – State Code 1: Development in a state-controlled road environment





State code 1: Development in a state-controlled road environment

Table 1.2.1: Development in a state-controlled road environment

Performance Criteria	Acceptable Solutions	Applicants Response
Buildings and structures		
PO1 The location of buildings, structures, infrastructure, services and utilities does not create a safety hazard in a state-controlled road, or cause damage to, or obstruct road transport infrastructure.	AO1.1 Buildings, structures, infrastructure, services and utilities are not located in a state-controlled road. And	Complies: The proposed monopole is located on a lot that adjoins the a State-controlled road. As illustrated on the proposed plans the facility will be entirely located on the subject site and will utilise the existing access track. The proposal is not considered to interfere with the safe operations of the state-controlled road.
	AO1.2 Buildings, structures, infrastructure, services and utilities can be maintained without requiring access to a state-controlled road.	Complies: The proposal will utilise the existing access. The site will generate minimal trips per year and is not considered to create a safety hazard to the state-controlled road.
PO2 The design and construction of buildings and structures does not create a safety hazard by distracting users of a state-controlled road.	AO2.1 Facades of buildings and structures facing a state-controlled road are made of non-reflective materials. OR	Complies: The proposal will not be seen from the road. Thus, it is considered that the proposal will have no safety impact on the road network.
	AO2.2 Facades of buildings and structures do not reflect point light sources into the face of oncoming traffic on a state-controlled road. AND	Complies: The proposal will not reflect light sources into the face of traffic.
	AO2.3 External lighting of buildings and structures is not directed into the face of oncoming traffic on a state-controlled road and does not involve flashing or laser lights. AND	Complies: The proposal will not reflect light sources into the face of traffic.
	AO2.4 Advertising devices visible from a state-controlled road are located and designed in accordance with the Roadside Advertising.	Complies: The proposal does not involve advertising devices.
PO3	AO3.1	Not Applicable: The proposal does not involve a road, pedestrian or bikeway bridge over a state-controlled road.





Performance Criteria	Acceptable Solutions	Applicants Response
Road, pedestrian and bikeway bridges over a	Road, pedestrian and bikeway bridges over a	
state-controlled road are designed and	state-controlled road include throw protection	
constructed to prevent projectiles from	screens in accordance with section 4.9.3 of the	
being thrown onto a state-controlled road.	Design Criteria for Bridges and Other Structures	
	Manual, Department of Transport and Main	
	Roads, 2014.	
Filling, excavation and retaining structures		
PO4	No acceptable outcome is prescribed.	Complies: The proposal will utilise the existing access. Some
Filling and excavation does not interfere		minor earthworks will be required within the compound area to
with, or result in damage to, infrastructure		allow for the footings of the facility to be constructed, as
or services in a state-controlled road. Note:		indicated on the proposed plans. Theses minor works are will
Information on the location of services and		not damage infrastructure or services in a state-controlled road,
public utility plants in a state-controlled road		particularly given the minor nature of the works and the
can be obtained from the Dial Before You Dig		separation distance from state-controlled road infrastructure.
service. Where development will impact on		
an existing or future service or public utility		
plant in a state-controlled road such that the		
service or public utility plant will need to be		
relocated, the alternative alignment must		
comply with the standards and design		
specifications of the relevant service or		
public utility provider, and any costs of		
relocation are to be borne by the developer.		
PO5	No acceptable outcome is prescribed.	Complies: Any proposed filling and excavation will not impact on
Filling, excavation, building foundations and		the state-controlled road.
retaining structures do not undermine, or		
cause subsidence of, a state-controlled road.		
Note: To demonstrate compliance with this		
performance outcome, it is recommended		
an RPEQ certified geotechnical assessment,		
prepared in accordance with the Road		
Planning and Design Manual 2nd Edition:		
Volume 3, Department of Transport and		
Main Roads, 2016, is provided		
PO6	No acceptable outcome is prescribed.	Complies: Any proposed filling and excavation will not impact on
		the state-controlled road.





Performance Criteria	Acceptable Solutions	Applicants Response
Filling, excavation, building foundations and		
retaining structures do not cause ground		
water disturbance in a state-controlled road.		
Note: To demonstrate compliance with this		
performance outcome, it is recommended		
an RPEQ certified geotechnical assessment,		
prepared in accordance with the Road		
Planning and Design manual 2nd Edition:		
Volume 3, Department of Transport and		
Main Roads, 2016, is provided.		
PO7	No acceptable outcome is prescribed	Complies: Any proposed filling and excavation will not impact on
Excavation, boring, piling, blasting or fill		the state-controlled road.
compaction during construction of a		
development does not result in ground		
movement or vibration impacts that would		
cause damage or nuisance to a state-		
controlled road, road transport		
infrastructure or road works. Note: To		
demonstrate compliance with this		
performance outcome, it is recommended		
an RPEQ certified geotechnical assessment,		
prepared in accordance with Road Planning		
and Design Manual 2nd Edition: Volume 3,		
Department of Transport and Main Roads,		
2016, is provided.		
PO8	AO8.1	Not Applicable: The proposal does not require fill material
Development involving the haulage of fill,	Fill, extracted material and spoil material is not	exceeding 10,000 tonnes per year.
extracted material or excavated spoil	transported to or from the development site on a	
material exceeding 10,000 tonnes per year	state-controlled road.	
does not damage the pavement of a		
statecontrolled road. Note: It is		
recommended a pavement impact		
assessment is provided. Further information		
will be provided in the forthcoming		
document Guide to Traffic Impact		





Performance Criteria	Acceptable Solutions	Applicants Response
Assessment, Department of Transport and		
Main Roads, 2017		
PO9	No acceptable outcome is prescribed.	Not Applicable: The proposal will utilise the existing access.
Filling and excavation associated with the		Earthworks will be limited to minor foundation work for the
construction of vehicular access to a		compound as outlined in the proposed plans. As such,
development does not compromise the		associated filling / excavation will not compromise the operation
operation or capacity of existing drainage		or capacity of drainage on a state-controlled road.
infrastructure for a state-controlled road.		
PO10	AO10.1	Complies: Any fill requirements will comply with the acceptable
Fill material used on a development site does	Fill material is free of contaminants including acid	outcome. Any requirements can be conditioned in accordance
not result in contamination of a state-	sulfate content. Note: Soils and rocks should be	with the acceptable outcome.
controlled road.	tested in accordance with AS 1289.0 – Methods of	
	testing soils for engineering purposes and AS	
	4133.0-2005 – Methods of testing rocks for	
	engineering purposes. AND	Compliant Am Ellinamian and a cill annulu citle that a complete
	AO10.2	Complies: Any fill requirements will comply with the acceptable
	Compaction of fill is carried out in accordance with the requirements of AS 1289.0 2000 – Methods of	outcome. Any requirements can be conditioned in accordance with the acceptable outcome.
	testing soils for engineering purposes.	with the acceptable outcome.
PO11	AO11.1	Complies: Any fill requirements will comply with the acceptable
Filling and excavation does not cause wind-	Compaction of fill is carried out in accordance with	outcome. Any requirements can be conditioned in accordance
blown dust nuisance in a state-controlled	the requirements of AS 1289.0 2000 – Methods of	with the acceptable outcome.
road.	testing soils for engineering purposes. AND	Will the deseptable outcome.
	A011.2	Complies: Any fill requirements will comply with the acceptable
	Dust suppression measures are used during filling	outcome. Any requirements can be conditioned in accordance
	and excavation activities such as wind breaks or	with the acceptable outcome.
	barriers and dampening of ground surfaces.	,
Stormwater and drainage		
PO12	No acceptable outcome is prescribed.	Not Applicable: All services required for the ongoing operation
Development does not result in an		of the facility are capable of being provided to the facility
actionable nuisance, or worsening of,		without impacting on the supply or reliability of these services
stormwater, flooding or drainage impacts in		to any existing consumers in the locality. The proposed
a state-controlled road.		development includes only minimal hardstand surfaces and will
		not result in the surcharge of stormwater to the state-controlled
		road No stormwater, sewerage or waste management facilities
		are required.





Performance Criteria	Acceptable Solutions	Applicants Response
PO13 Run-off from the development site is not unlawfully discharged to a state-controlled	AO13.1 Development does not create any new points of discharge to a state-controlled road. AND	As above.
road.	AO13.2 Stormwater run-off is discharged to a lawful point of discharge. Note: Section 3.4 of the Queensland Urban Drainage Manual, Department of Energy and Water Supply, 2013, provides further information on lawful points of discharge. AND	As above.
	AO13.3 Development does not worsen the condition of an existing lawful point of discharge to the state-controlled road	As above.
PO14 Run-off from the development site during construction does not cause siltation of stormwater infrastructure affecting a state-controlled road.	AO14.1 Run-off from the development site during construction is not discharged to stormwater infrastructure for a state-controlled road.	As above.
Vehicular access to a state-controlled road		
PO15 Vehicular access to a state-controlled road that is a limited access road is consistent with government policy for the management of limited access roads.	AO15.1 Development does not require new or changed access to a limited access road. Note: Limited access roads are declared by the transport chief executive under section 54 of the Transport Infrastructure Act 1994 and are identified in the DA mapping system. OR	Not Applicable: The proposal will utilise the existing access, which is not identified as a limited access road.
	AO15.2 A new or changed access to a limited access road is consistent with the limited access policy for the state-controlled road. Note: Limited access policies for limited access roads declared under the Transport Infrastructure Act 1994 can be obtained by contacting the relevant Department of Transport and Main Roads regional office. AND	As above.
	AO15.3	Not Applicable: The proposal does not include a service centre. As such, this element of criteria is not applicable.





Performance Criteria	Acceptable Solutions	Applicants Response
	Where a new or changed access is for a service	
	centre, access is consistent with the Service centre	
	policy, Department of Transport and Main Roads,	
	2013 and the Access policy for roadside service	
	centre facilities on limited access roads,	
	Department of Transport and Main Roads, 2013,	
	and the Service centre strategy for the state-	
	controlled road. Note: The Service centre policy,	
	Department of Transport and Main Roads, 2013,	
	Access policy for roadside service centre facilities,	
	Department of Transport and Main Roads, 2013	
	and the relevant Service centre strategy for a	
	state-controlled road can be accessed by	
	contacting the relevant Department of Transport	
	and Main Roads regional office	
PO16	AO16.1	Complies: Access will be taken from the existing access track,
The location and design of vehicular access	Vehicular access is provided from a local	which is the only access to the site. Access from a local
to a statecontrolled road (including access to	government road.	government Road cannot be provided in this instance.
a limited access road) does not create a	OR all of the following acceptable outcomes	As above.
safety hazard for users of a statecontrolled	apply:	
road or result in a worsening of operating	AO16.2	
conditions on a state-controlled road. Note:	Vehicular access for the development is	
Where a new or changed access between	consistent with the function and design of the	
the premises and a state-controlled road is	state-controlled road. AND	
proposed, the Department of Transport and	AO16.3	Complies: Access will be taken from the existing access track
Main Roads will need to assess the proposal	Development does not require new or changed	which is the only access to the site. Access from a local
to determine if the vehicular access for the	access between the premises and the state-	government Road cannot be provided in this instance.
development is safe. An assessment can be	controlled road. Note: A decision under section 62	
made by Department of Transport and Main	of the Transport Infrastructure Act 1994 outlines	
Roads as part of the development	the approved conditions for use of an existing	
assessment process and a decision under	vehicular access to a state-controlled road.	
section 62 of Transport Infrastructure Act	Current section 62 decisions can be obtained from	
1994 issued where sufficient information is	the relevant Department of Transport and Main	
provided.	Roads regional office. AND	





Performance Criteria	Acceptable Solutions	Applicants Response
	AO16.4 Use of any existing vehicular access to the development is consistent with a decision under section 62 of the Transport Infrastructure Act 1994. Note: The development which is the subject of the application must be of an equivalent use and intensity for which the section 62 approval was issued and the section 62 approval must have been granted no more than 5 years prior to the lodgement of the application. AND	Complies: Access will be taken from the existing access track which is the only access to the site. Access from a local government Road cannot be provided in this instance.
	AO16.5 On-site vehicle circulation is designed to give priority to entering vehicles at all times so vehicles do not queue in a road intersection or on the state-controlled road.	Complies: The proposal will not result in vehicles queuing in a road intersection or a state-controlled road.
PO17 Vehicular access to a state-controlled road or local government road (and associated road access works) are located and designed	AO17.1 Vehicular access and associated road access works are not located within 5 metres of existing public passenger transport infrastructure. AND	Complies : The proposed access will be taken from the existing access track, which is not identified as being within 5 metres of existing public passenger.
to not damage or interfere with public passenger transport infrastructure, public passenger services or pedestrian or cycle access to public passenger transport infrastructure and public passenger services.	AO17.2 The location and design of vehicular access for a development does not necessitate the relocation of existing public passenger transport infrastructure. AND	Complies: The proposed vehicular access does not require the location of public passenger transport infrastructure.
	AO17.3 On-site vehicle circulation is designed to give priority to entering vehicles at all times so vehicles using a vehicular access do not obstruct public passenger transport infrastructure and public passenger services or obstruct pedestrian or cycle access to public passenger transport infrastructure and public passenger services. AND	Complies: The proposed access will be taken from the existing access, which is not identified as being within 5 metres of existing public passenger. No impact or obstruction to public passenger services is anticipated.
	AO17.4 The normal operation of public passenger transport infrastructure or public passenger	Complies: The proposed access will be from the existing access track which is not identified as a public passenger service. No impact or obstruction to public passenger services is anticipated.





Performance Criteria	Acceptable Solutions	Applicants Response
	services is not interrupted during construction of	
	the development.	
Vehicular access to local roads within 100m	of an intersection with a state-controlled road	
PO18	AO18.1	Not Applicable
The location and design of vehicular access	Vehicular access is located as far as possible from	
to a local road within 100 metres of an	the state-controlled road intersection. AND	
intersection with a statecontrolled road does	AO18.2	Not Applicable
not create a safety hazard for users of a	Vehicular access is in accordance with parts, 3, 4	
state-controlled road.	and 4A of the Road Planning and Design Manual,	
	2nd Edition: Volume 3, Department of Transport	
	and Main Roads, 2016. AND	
	AO18.3	Not Applicable
	On-site vehicle circulation is designed to give	
	priority to entering vehicles at all times so vehicles	
	do not queue in the intersection or on the state-	
	controlled road.	
Planned upgrades		
PO19	AO19.1	Not Applicable: The subject site is not identified as land required
Development does not impede delivery of	Development is not located on land identified by	for upgrade.
planned upgrades of state-controlled roads.	the Department of Transport and Main Roads as	
	land required for the planned upgrade of a state-	
	controlled road. Note: Land required for the	
	planned upgrade of a state-controlled road is	
	identified in the DA mapping system. OR	
	AO19.2	Not Applicable: The subject site is not identified as land required
	Development is sited and designed so that	for upgrade.
	permanent buildings, structures, infrastructure,	
	services or utilities are not located on land	
	identified by the Department of Transport and	
	Main Roads as land required for the planned	
	upgrade of a state-controlled road.	
	AO19.3	Not Applicable: The subject site is not identified as land required
	Structures and infrastructure located on land	for upgrade.
	identified by the Department of Transport and	
		1
	Main Roads as land required for the planned upgrade of a state-controlled road are able to be	





Performance Criteria	Acceptable Solutions	Applicants Response
	readily relocated or removed without materially affecting the viability or functionality of the development. AND	
	AO19.4 Vehicular access for the development is consistent with the function and design of the planned upgrade of the state-controlled road. AND	Not Applicable: The subject site is not identified as land required for upgrade.
	AO19.5 Development does not involve filling and excavation of, or material changes to, land required for a planned upgrade to a state-controlled road. AND	Not Applicable: The subject site is not identified as land required for upgrade.
	AO19.6 Land is able to be reinstated to the predevelopment condition at the completion of the use	Not Applicable: The subject site is not identified as land required for upgrade.
Network impacts		
PO20 Development does not result in a worsening of operating conditions on the state-controlled road network. Note: To demonstrate compliance with this performance outcome, it is recommended that an RPEQ certified traffic impact assessment is provided. Further information will be provided in the forthcoming document Guide to Traffic Impact Assessment, Department of Transport and Main Roads, 2017.	No acceptable outcome is prescribed.	Complies: The proposed telecommunications facility will be accessed from the existing access track. The site will generate minimal trips per year and is not considered to create a worsening of operating conditions to the state-controlled road.
PO21 Development does not impose traffic loadings on a state-controlled road which could be accommodated on the local road network.	AO21.1 The layout and design of the development directs traffic generated by the development to the local road network.	Performance Outcome: The proposal will be accessed from the existing access track off. The site will generate minimal trips per year and is not considered to create a worsening of operating conditions to the state-controlled road.
PO22	AO22.1	Not Applicable: The proposal does not require upgrade works.





Performance Criteria	Acceptable Solutions	Applicants Response
Upgrade works on, or associated with, a	Upgrade works required as a result of the	
state controlled road are built in accordance	development are designed and constructed in	
with Queensland road design standards.	accordance with the Road Planning and Design	
	Manual, 2nd edition, Department of Transport	
	and Main Roads, 2016. Note: Road works in a	
	state-controlled road require approval under	
	section 33 of the Transport Infrastructure Act	
	1994 before the works commence	

Table 1.2.2: Environmental Emissions

Performance Criteria	Acceptable Solutions	Applicants Response			
Noise	Noise				
Accommodation activities	Accommodation activities				
PO23 Development involving an accommodation activity or land for a future accommodation activity minimises noise intrusion from a state-controlled road or type 1 multimodal corridor in habitable rooms.	AO23.1 A noise barrier or earth mound is provided which is designed, sited and constructed: 1. to meet the following external noise criteria at all facades of the building envelope: a. ≤60 dB(A) L10 (18 hour) façade corrected (measured L90 (8 hour) free field between 10pm and 6am ≤40	Not Applicable: The proposal does not involve accommodation activities. Thus, this element of criteria is not applicable.			
	dB(A)) b. ≤63 dB(A) L10 (18 hour) façade corrected (measured L90 (8 hour) free field between 10pm and 6am >40 dB(A)) 2. in accordance with chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013. Note: To demonstrate compliance with the acceptable outcome, it is recommended that a RPEQ certified noise assessment report is provided, prepared in accordance				





Performance Criteria	Acceptable Solutions	Applicants Response
	with the State Development Assessment	
	Provisions Supporting Information –	
	Community Amenity (Noise), Department	
	of Transport and Main Roads, 2013. If the	
	building envelope is unknown, the	
	deemed-to-comply setback distances for	
	buildings stipulated by the local planning	
	instrument or relevant building regulations	
	should be used. In some instances, the	
	design of noise barriers and mounds to	
	achieve the noise criteria above the ground	
	floor may not be reasonable or practicable.	
	In these instances, any relaxation of the	
	criteria is at the discretion of the	
	Department of Transport and Main Roads.	
	OR all of the following acceptable	Not Applicable: The proposal does not involve accommodation
	outcomes apply:	activities. Thus, this element of criteria is not applicable.
	4022.2	
	A023.2	
	Buildings which include a habitable room are setback the maximum distance	
	possible from a statecontrolled road or	
	type 1 multi-modal corridor. AND	
	AO23.3	Not Applicable: The proposal does not involve accommodation
	Buildings are designed and oriented so that	activities. Thus, this element of criteria is not applicable.
	habitable rooms are located furthest from	activities. Thus, this element of criteria is not applicable.
	a statecontrolled road or type 1 multi-	
	modal corridor. AND	
	A023.4	Not Applicable: The proposal does not involve accommodation
	Buildings (other than a relevant residential	activities. Thus, this element of criteria is not applicable.
	building or relocated building) are	
	designed and constructed using materials	
	which ensure that habitable rooms meet	
	the following internal noise criteria: 1. ≤35	
	dB(A) Leq (1 hour) (maximum hour over 24	
	hours). Statutory note: Noise levels from a	





Performance Criteria	Acceptable Solutions	Applicants Response
	state-controlled road or type 1 multi-	· · · · · · · · · · · · · · · · · · ·
	modal corridor are to be measured in	
	accordance with AS1055.1–1997 Acoustics	
	 Description and measurement of 	
	•	
	acceptable outcome, it is recommended that a RPEQ certified noise assessment	
	·	
	report is provided, prepared in accordance	
	with the State Development Assessment	
	Provisions Supporting Information –	
	Community Amenity (Noise), Department	
	of Transport and Main Roads, 2013.	
	Habitable rooms of relevant residential	
	buildings located within a transport noise	
	corridor must comply with the Queensland	
	Development Code MP4.4 Buildings in a	
	transport noise corridor, Queensland	
	Government, 2015. Transport noise	
	corridors are mapped on the State	
	Planning Policy interactive mapping system	
PO24	AO24.1	Not Applicable: The proposal does not involve accommodation
Development involving an accommodation	A noise barrier or earth mound is provided	activities. Thus, this element of criteria is not applicable.
activity or land for a future accommodation	which is designed, sited and constructed:	
activity minimises noise intrusion from a state-	1. to meet the following external noise	
controlled road or type 1 multimodal corridor	criteria in outdoor spaces for passive	
in outdoor spaces for passive recreation.	recreation: a. ≤57 dB(A) L10 (18 hour) free	
	field (measured L90 (18 hour) free field	
	between 6am and 12 midnight ≤45 dB(A))	
	b. ≤60 dB(A) L10 (18 hour) free field	
	(measured L90 (18 hour) free field	
	between 6am and 12 midnight >45 dB(A))	
	2. in accordance with chapter 7 integrated	
	noise barrier design of the Transport Noise	
	Management Code of Practice – Volume 1	
	Road Traffic Noise, Department of	





Performance Criteria	Acceptable Solutions	Applicants Response
	Transport and Main Roads, 2013. Note: To	
	demonstrate compliance with the	
	acceptable outcome, it is recommended	
	that a RPEQ certified noise assessment	
	report is provided, prepared in accordance	
	with the State Development Assessment	
	Provisions Supporting Information –	
	Community Amenity (Noise), Department	
	of Transport and Main Roads, 2013. OR	
	AO24.2	Not Applicable: The proposal does not involve accommodation
	Each dwelling has access to an outdoor	activities. Thus, this element of criteria is not applicable.
	space for passive recreation which is	
	shielded from a statecontrolled road or	
	type 1 multi-modal corridor by a building,	
	solid gap-free fence, or other solid gap-free	
	structure. AND	
	AO24.3	Not Applicable: The proposal does not involve accommodation
	Each dwelling with a balcony directly	activities. Thus, this element of criteria is not applicable.
	exposed to noise from a state-controlled	
	road or type 1 multi-modal corridor has a	
	continuous solid gap-free balustrade	
	(other than gaps required for drainage	
	purposes to comply with the Building Code	
	of Australia).	
Childcare centres and educational establishme	ents	
PO25	AO25.1	Not Applicable: The proposal does not involve childcare centres or
Development involving a: 1. childcare centre;	A noise barrier or earth mound is provided	educational establishments. Thus, this element of criteria is not
or 2. educational establishment minimises	which is designed, sited and constructed:	applicable.
noise intrusion from a state-controlled road or	1. to meet the following external noise	
type 1 multi-modal corridor in indoor	criteria at all facades of the building	
education areas and indoor play areas.	envelope: a. ≤58 dB(A) L10 (1 hour) façade	
	corrected (maximum hour during normal	
	opening hours) 2. in accordance with	
	chapter 7 – Integrated noise barrier design	
	of the Transport Noise Management Code	
	of Practice: Volume 1 (Road Traffic Noise),	





Performance Criteria	Acceptable Solutions	Applicants Response
Performance Criteria	Department of Transport and Main Roads, 2013. Note: To demonstrate compliance with the acceptable outcome, it is recommended that a RPEQ certified noise assessment report is provided, prepared in accordance with the State Development Assessment Provisions Supporting Information – Community Amenity (Noise), Department of Transport and Main Roads, 2013. If the building envelope is unknown, the deemed-to-comply setback distances for buildings stipulated by the local	Applicants response
	planning instrument or relevant building regulations should be used. OR all of the following acceptable outcomes apply: AO25.2 Buildings which include indoor education areas and indoor play areas are setback the maximum distance possible from a state-controlled road or type 1 multimodal corridor. AND	Not Applicable: The proposal does not involve childcare centres or educational establishments. Thus, this element of criteria is not applicable.
	AO25.3 Buildings are designed and oriented so that indoor education areas and indoor play areas are located furthest from the state-controlled road or type 1 multi-modal corridor. AND	Not Applicable: The proposal does not involve childcare centres or educational establishments. Thus, this element of criteria is not applicable.
	AO25.4 Buildings are designed and constructed using materials which ensure indoor education areas and indoor play areas meet the following internal noise criteria: 1. ≤35 dB(A) Leq (1 hour) (maximum hour during opening hours). Statutory note:	Not Applicable: The proposal does not involve childcare centres or educational establishments. Thus, this element of criteria is not applicable.





Performance Criteria	Acceptable Solutions	Applicants Response
	Noise levels from a state-controlled road or	
	type 1 multi-modal corridor are to be	
	measured in accordance with AS1055.1-	
	1997 Acoustics – Description and	
	measurement of environmental noise.	
	Note: To demonstrate compliance with the	
	acceptable outcome, it is recommended	
	that a RPEQ certified noise assessment	
	report, prepared in accordance with the	
	State Development Assessment Provisions	
	Supporting Information – Community	
	Amenity (Noise), Department of Transport	
	and Main Roads, 2013, is provided.	
PO26	AO26.1	Not Applicable: The proposal does not involve childcare centres or
Development involving a: 1. childcare centre;	A noise barrier or earth mound is provided	educational establishments. Thus, this element of criteria is not
or 2. educational establishment minimises	which is designed, sited and constructed:	applicable.
noise intrusion from a state-controlled road or	1. to meet the following external noise	
type 1 multi-modal corridor in outdoor	criteria in each outdoor education area or	
education areas and outdoor play areas.	outdoor play area: a. ≤63 dB(A) L10 (12	
	hour) free field (between 6am and 6pm) 2.	
	in accordance with chapter 7 – Integrated	
	noise barrier design of the Transport Noise	
	Management Code of Practice: Volume 1	
	(Road Traffic Noise), Department of	
	Transport and Main Roads, 2013. Note: To	
	demonstrate compliance with the	
	acceptable outcome, it is recommended	
	that a RPEQ certified noise assessment	
	report is provided, prepared in accordance	
	with the State Development Assessment	
	Provisions Supporting Information –	
	Community Amenity (Noise), Department	
	of Transport and Main Roads, 2013. OR	





Performance Criteria	Acceptable Solutions	Applicants Response
	AO26.2 Each outdoor education area and outdoor play area is shielded from noise generated from a statecontrolled road or type 1 multimodal corridor by a building, solid gap-free fence, or other solid gap-free structure.	Not Applicable: The proposal does not involve childcare centres or educational establishments. Thus, this element of criteria is not applicable.
Hospitals		
PO27 Development involving a hospital minimises noise intrusion from a state-controlled road or type 1 multimodal corridor in patient care areas.	Hospitals are designed and constructed using materials which ensure patient care areas meet the following internal noise criteria: 1. ≤35 dB(A) Leq (1 hour) (maximum hour during opening hours). Statutory note: Noise levels from a state-controlled road or type 1 multi-modal corridor are to be measured in accordance with AS1055.1−1997 Acoustics − Description and measurement of environmental noise. Note: To demonstrate compliance with the acceptable outcome, it is recommended that a RPEQ certified noise assessment report is provided, prepared in accordance with the State Development Assessment Provisions Supporting Information − Community Amenity (Noise), Department of Transport and Main Roads, 2013.	Not Applicable: The proposal does not involve a hospital. Thus, this element of criteria is not applicable.
Vibration		
Hospitals		
PO28 Development involving a hospital minimises vibration impacts from vehicles using a state-controlled road or type 1 multi-modal corridor in patient care areas.	AO28.1 Hospitals are designed and constructed to ensure vibration in the treatment area of a patient care area does not exceed a vibration dose value of 0.1m/s1.75. AND	Not Applicable: The proposal does not involve a hospital. Thus, this element of criteria is not applicable.

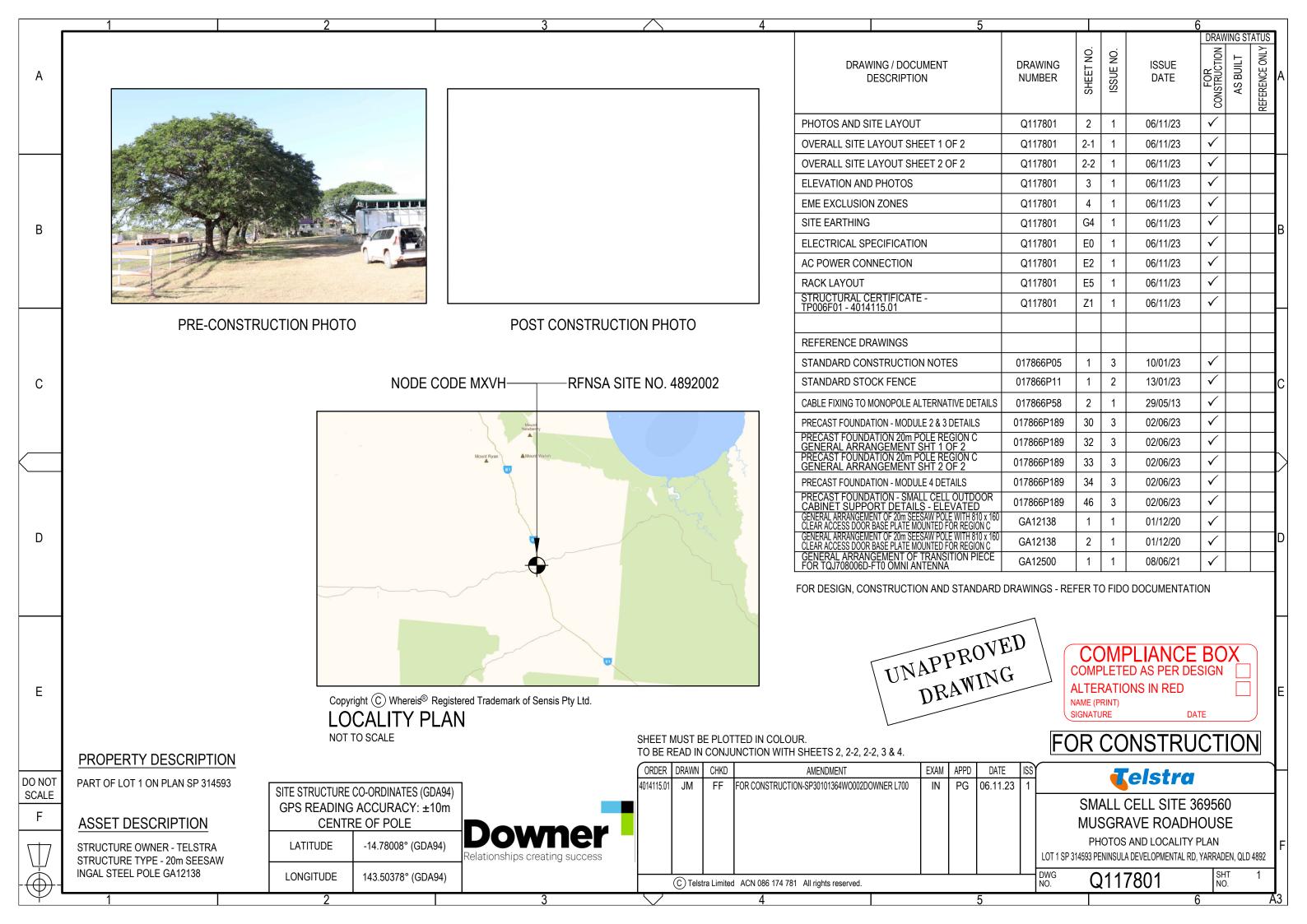


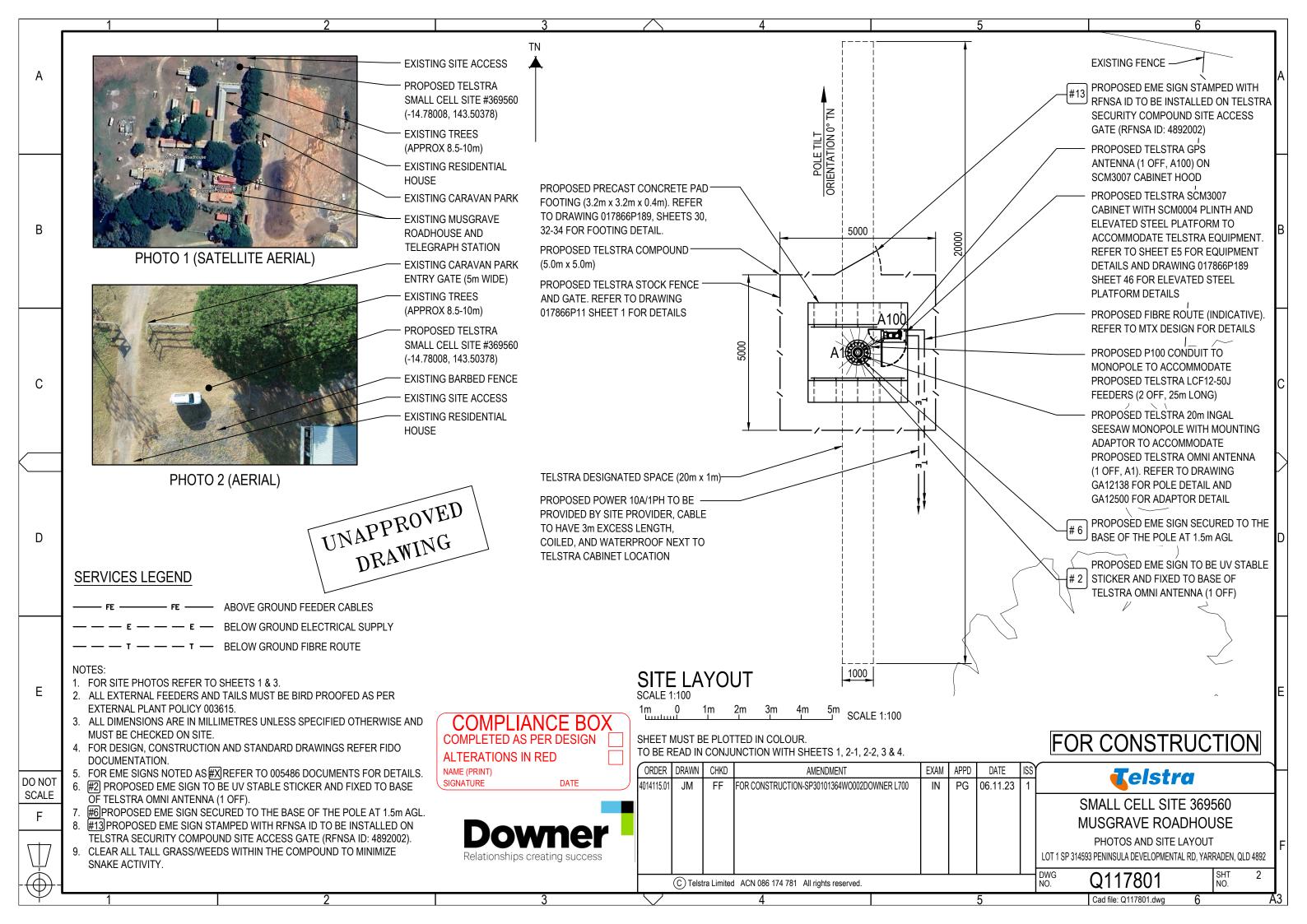


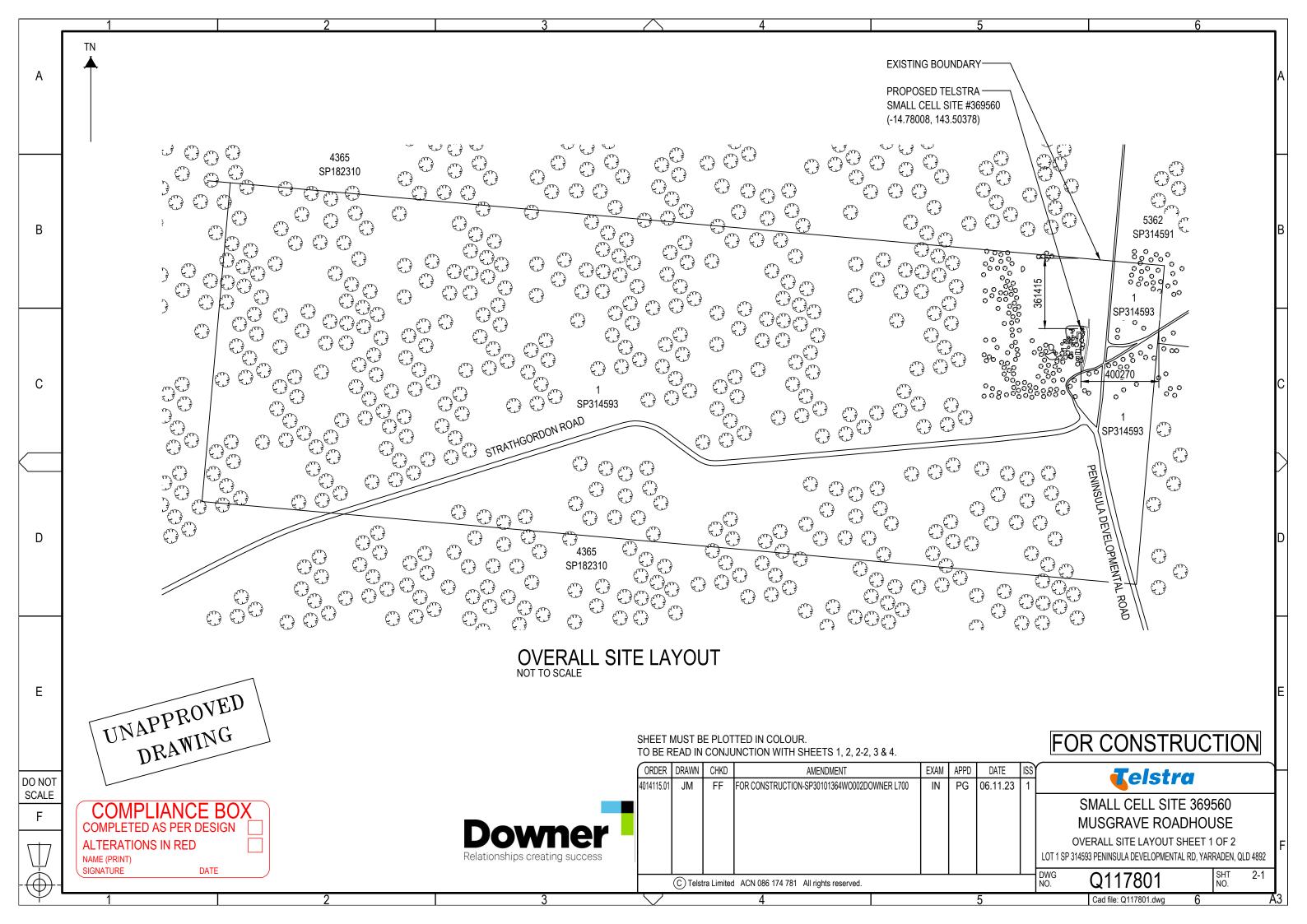
Performance Criteria	Acceptable Solutions	Applicants Response
	AO28.2 Hospitals are designed and constructed to ensure vibration in the ward area of a patient care area does not exceed a vibration dose value of 0.4m/s1.75. Note: To demonstrate compliance with the acceptable outcome, it is recommended that a RPEQ certified vibration assessment report is provided.	Not Applicable: The proposal does not involve a hospital. Thus, this element of criteria is not applicable.
Air and Light		
PO29 Development involving an accommodation activity minimises air quality impacts from a state-controlled road or type 1 multi-modal corridor in outdoor spaces for passive recreation.	AO29.1 Each dwelling has access to an outdoor space for passive recreation which is shielded from a state controlled road or type 1 multi-modal corridor by a building, solid gap-free fence, or other solid gap-free structure.	Not Applicable: The proposal does not involve a dwelling. Thus, this element of criteria is not applicable.
PO30 Development involving a: 1. childcare centre; or 2. educational establishment minimises air quality impacts from a state-controlled road or type 1 multi-modal corridor in outdoor education areas and outdoor play areas	AO30.1 Each outdoor education area and outdoor play area is shielded from a state-controlled road or type 1 multi-modal corridor by a building, solid gap-free fence, or other solid gap-free structure.	Not Applicable: The proposal does not include an outdoor education area or play area. Thus, this element of criteria is not applicable.
PO31 Development involving an accommodation activity or hospital minimises lighting impacts from a state-controlled road or type 1 multimodal corridor.	AO31.1 Buildings for an accommodation activity or hospital are designed to minimise the number of windows or transparent/translucent panels facing a state-controlled road or type 1 multimodal corridor. OR	Not Applicable: The proposal does not involve an accommodation activity. Thus, this element of criteria is not applicable.
	AO31.2 Windows facing a state-controlled road or type 1 multi-modal corridor include treatments to block light from a state-controlled road or type 1 multi-modal corridor.	Not Applicable: The proposal does not involve a use that includes windows.

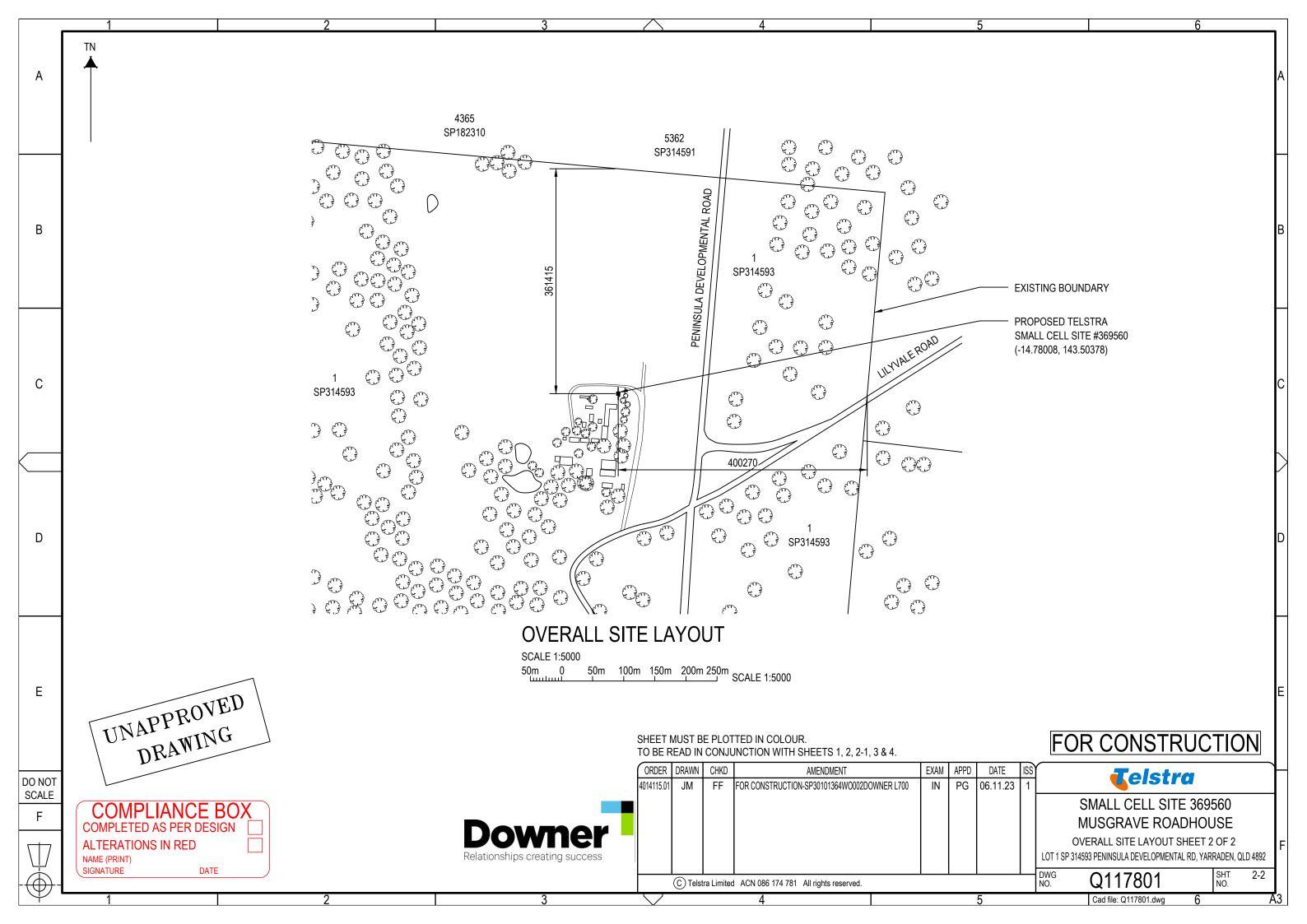


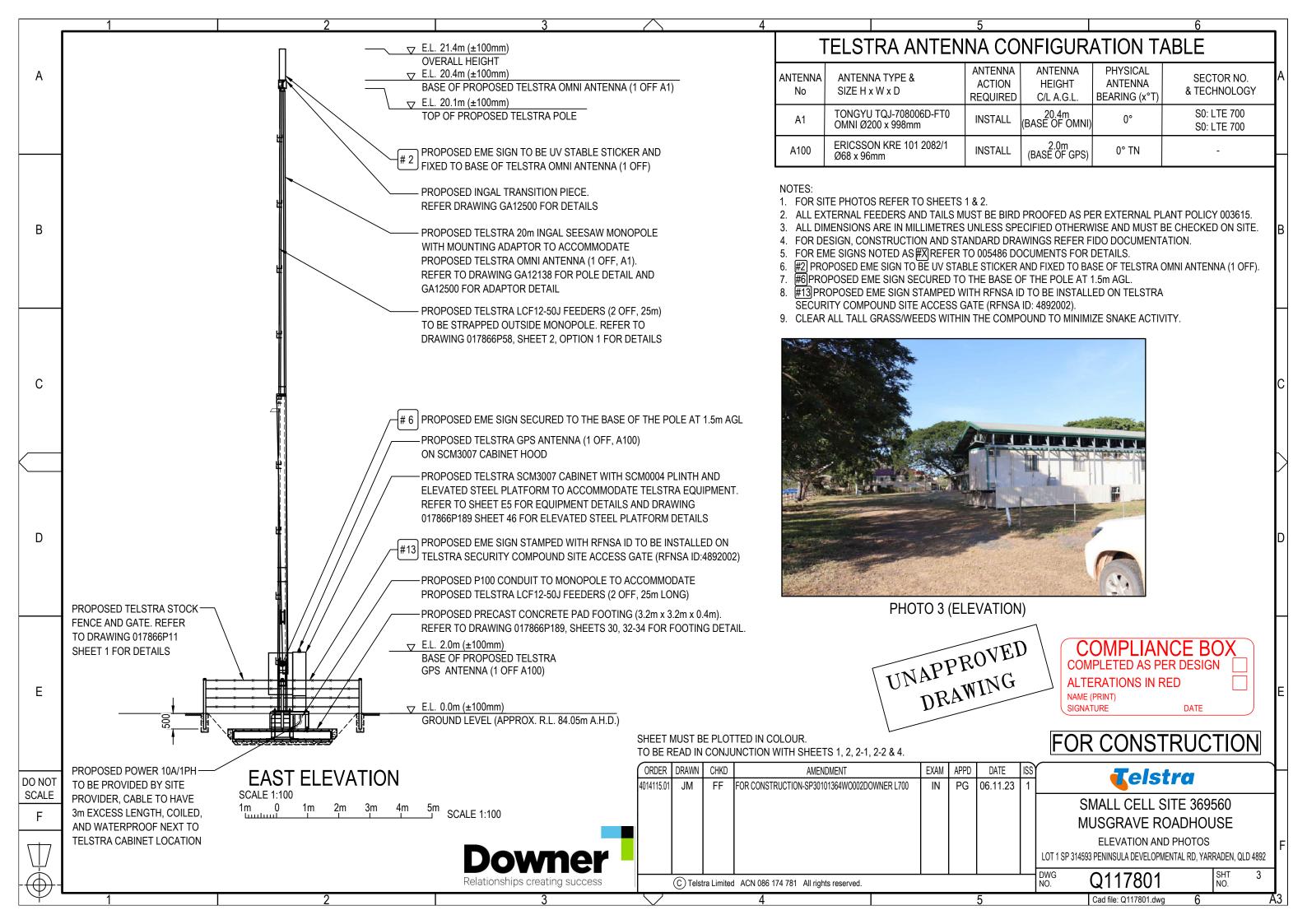


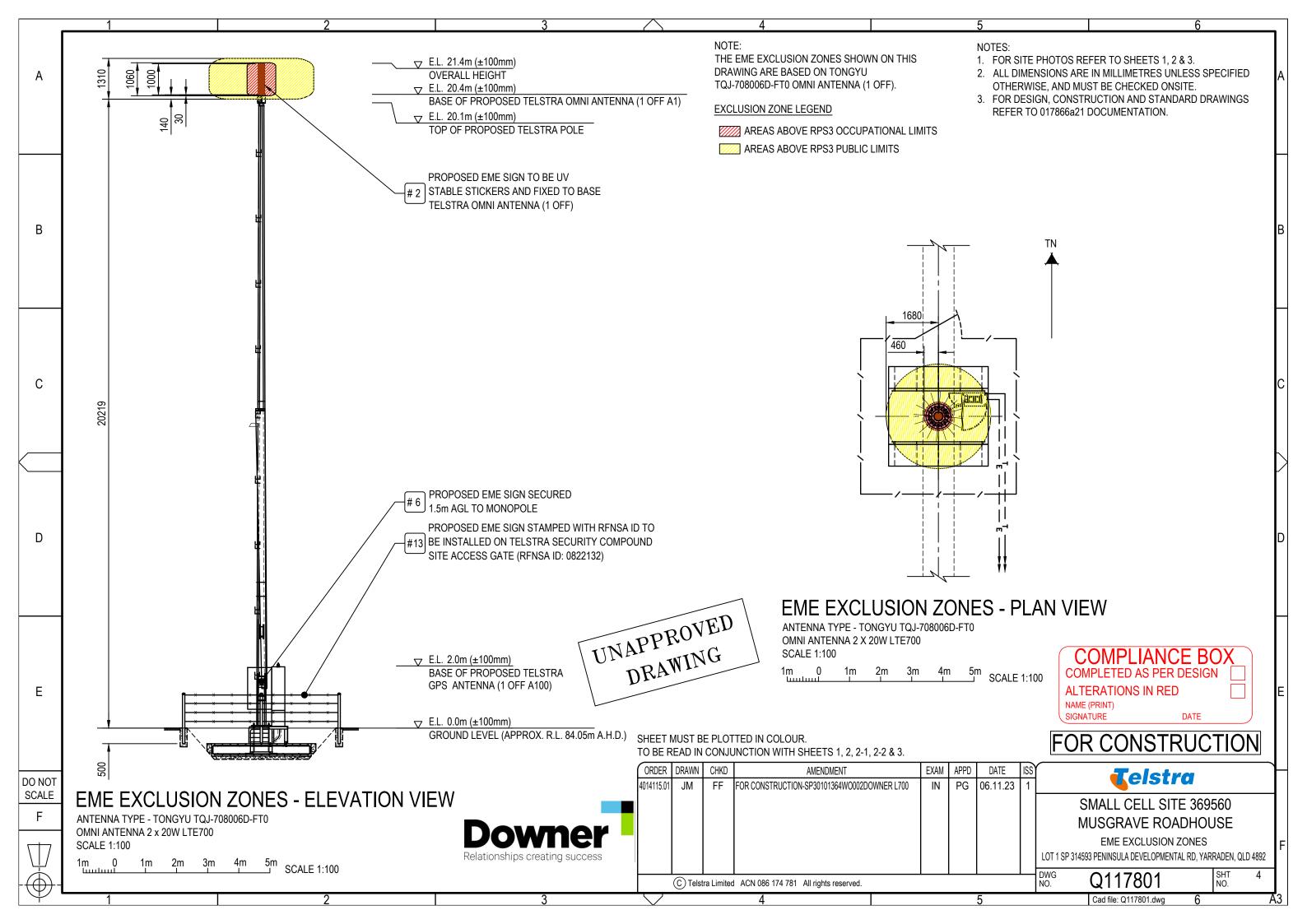


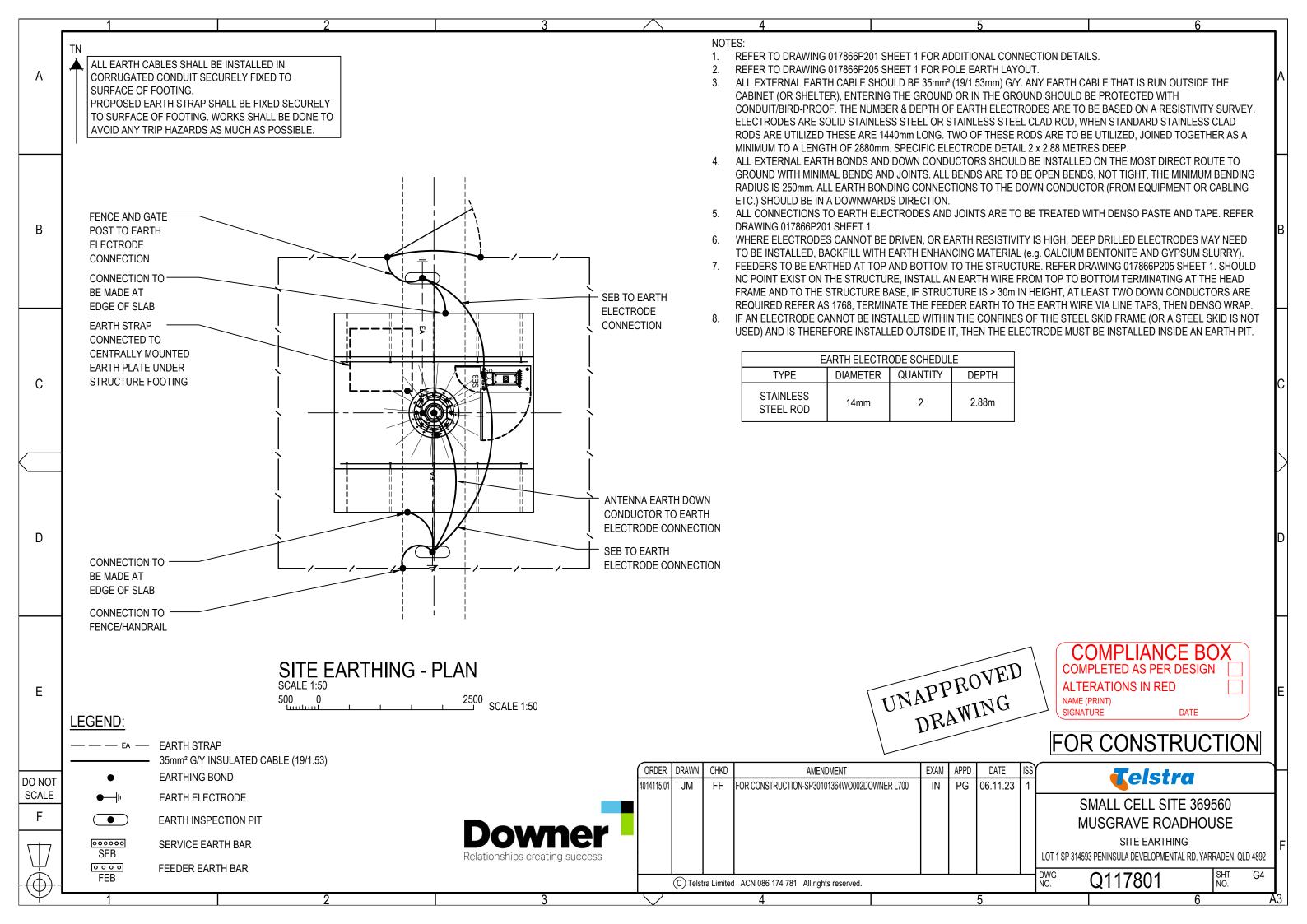




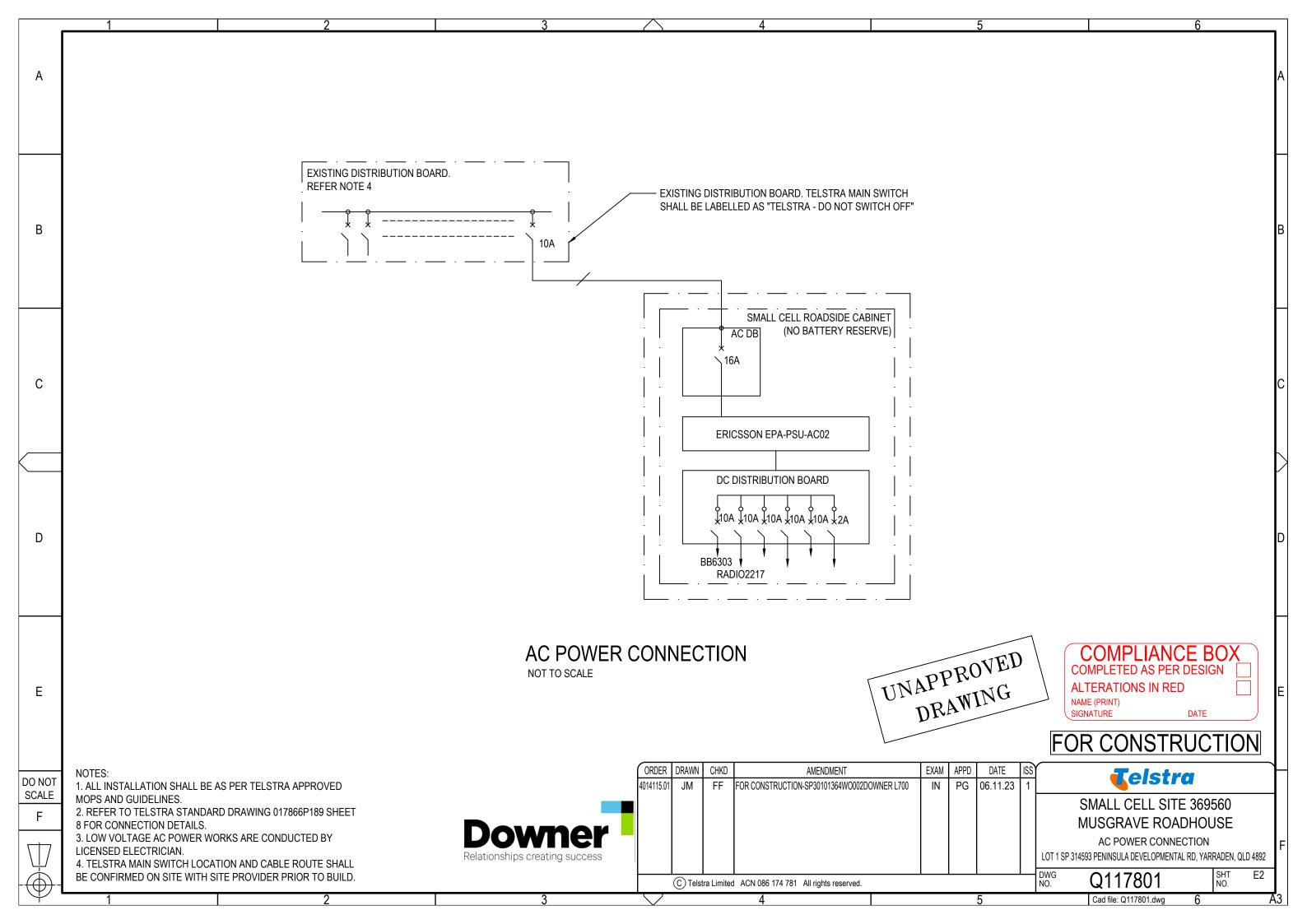


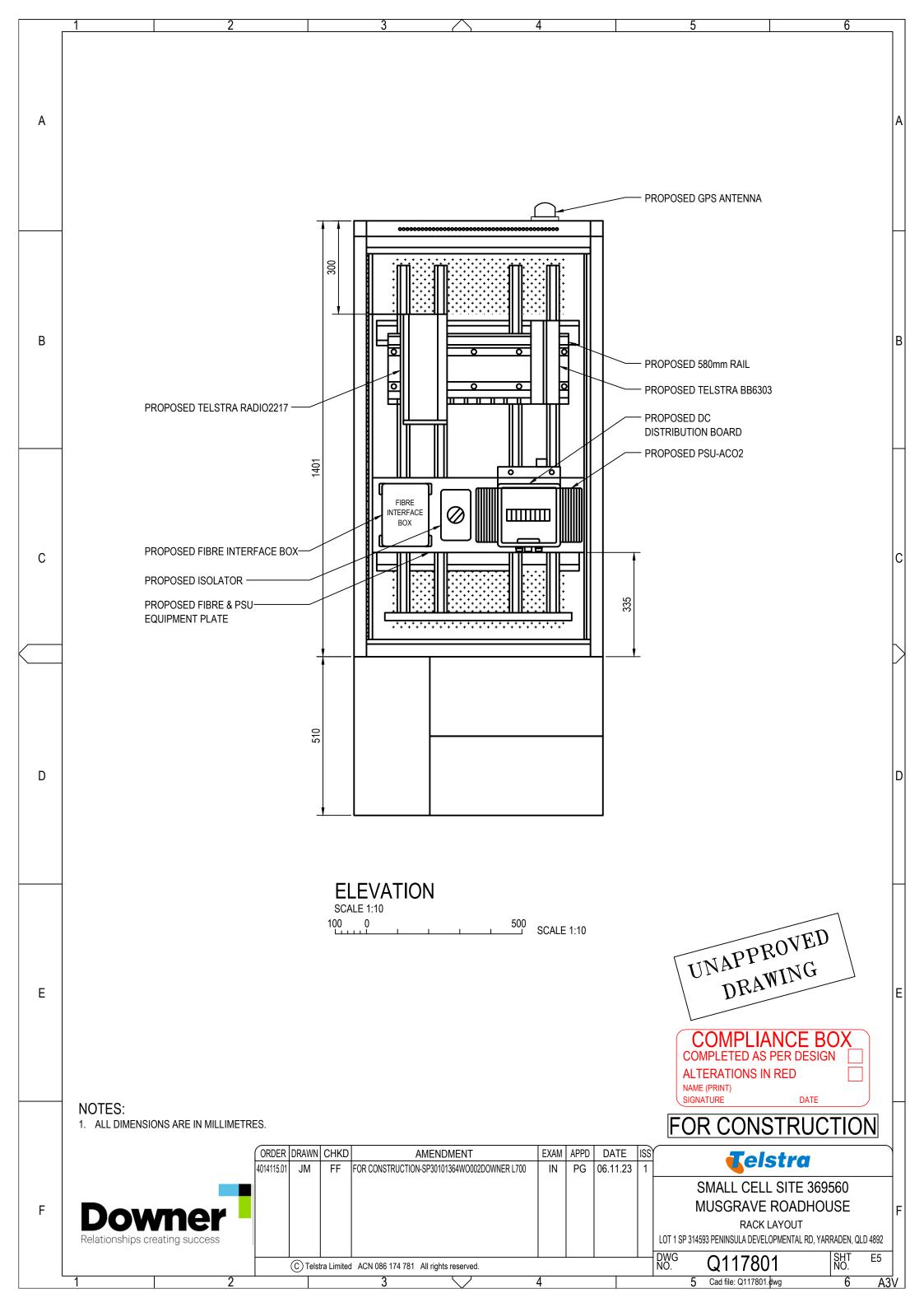






ELECTRICAL SPECIFICATION Α 1.GENERAL **5.HEAT LOAD** ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH: SMALL CELL ROADSIDE CABINET HAS PASSIVE COOLING AND ASSOCIATED FANS TO CATER FOR PROPOSED HEAT LOAD. •THESE SPECIFICATION •TELSTRA CIVIL DESIGN MANUAL 6.DC POWER •TELSTRA EARTHING MANUAL PROPOSED INSTALL ERICSSON EPA-PSU-AC (1 OFF) IN PROPOSED SMALL CELL CABINET. ERICSSON PSU-AC SHALL BE •ALL REFERENCED TELSTRA STANDARD DOCUMENTATION POWERED DIRECTLY FROM 16A/1P MCB IN AC DB OF SMALL CELL CABINET. •AS / NZS3000 NO BATTERY RESERVE IS DESIGNED FOR THIS SITE. •AS / NZS3008 •AS / NZS3015 7.RBS •AS / NZS3017 В PROPOSED INSTALL BB6303 (1 OFF) AND RADIO2217 (1 OFF) IN PROPOSED SMALL CELL CABINET. •AS / NZS1768 •AS / ACIF S006 PROPOSED BB6303 AND RADIO2217 SHALL BE SUPPLIED VIA A 10A MCB EACH FROM DC DISTRIBUTION BOARD WITHIN •RELEVANT STATE / TERRITORY SPECIFIC INSTALLATION RULES AND ALL OTHER RELEVANT AUSTRALIAN STANDARDS AS SMALL CELL CABINET. APPLICABLE TO PROPOSED WORKS. ALL INSTALLATION SHALL BE IN ACCORDANCE WITH TELSTRA DEPLOYMENT MANUALS FOR SMALL CELL. 2.STANDARD OF WORK & WORKMANSHIP REFER TO SHEET E5 FOR DETAILS. ALL LOW VOLTAGE AC POWER WORKS SHALL BE COMPLETED BY LICENSED ELECTRICIAN IN ACCORDANCE WITH INSTALLATION RULES AND RELEVANT SAFETY PRACTICES APPLICABLE TO SITE. **8.GPS SYSTEM** PROVIDE AND INSTALL GPS ANTENNA AS PER TELSTRA SPECIFICATIONS FOR SMALL CELLS. ALL WORKS SHALL BE LIAISED AND COORDINATED WITH RELEVANT PERSONNEL. SITE REPRESENTATIVES, LANDOWNER, SITE PROVIDER AND / OR POWER AUTHORITY AS APPLICABLE. 9.LABELLING С ALL LABELLING SHALL BE AS PER TELSTRA REQUIREMENTS FOR SMALL CELLS. ALL WORKS SHALL BE AS PER TELSTRA SPECIFICATIONS AND APPROVED MOPS INCLUDING LABELLING. CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL SITE CONDITIONS AND SAFETY REQUIREMENTS PRIOR TO COMMENCING ANY WORK ON SITE. 10.EARTHING ALL EARTHING AND BONDING IS TO BE IN ACCORDANCE WITH THE TELSTRA EARTHING MANUAL 017866A07. 3.OUTAGES AND PERMITS CONTRACTOR TO VALIDATE ALL APPROVALS AND OUTAGES REQUIRED TO CONDUCT PROPOSED WORKS. THIS INCLUDES ALL CABINETS SHALL BE CONNECTED TO EARTHING SYSTEM AS PER TELSTRA REQUIREMENTS. BUT IS NOT LIMITED TO ANY DONOR SITES AND/OR FAR END SITES WHICH MAY BE IMPACTED DUE TO PROPOSED WORKS. ALL EQUIPMENT INSTALLED IN THE PROPOSED SMALL CELL CABINETS ARE TO BE BONDED TO THE CABINET EARTH BAR. FOR FEEDER EARTHING REFER TO DRAWING 017866P201 SHEET 11. ALL CONTRACTORS WORKING ON TELSTRA FACILITIES SHALL BE TELSTRA ACCREDITED AS PER TELSTRA PROTOCOLS. ALL BONDING CONDUCTORS ARE TO BE LABELLED AT BOTH ENDS IN ACCORDANCE WITH THE TELSTRA EARTHING MANUAL 4.MAINS SUPPLY D 10A / 1P SUPPLY SHALL BE PROVIDED BY SITE PROVIDER. PROVIDE AND INSTALL 10A / 1P CB IN NEXT AVAILABLE POSITION IN DISTRIBUTION BOARD AS TELSTRA MAIN SWITCH. TELSTRA MAIN SWITCH SHALL BE •PROPOSED EARTH GRID ELECTRODES: 2 OFF LABELLED AS "TELSTRA - DO NOT SWITCH OFF". •PROPOSED EARTH GRID ELECTRODE LENGTH: 2.88m •INSTALLATION METHOD: DRIVEN. TELSTRA MAIN SWITCH LOCATION AND PROPOSED CABLE ROUTE SHALL BE CONFIRMED ON SITE WITH SITE PROVIDER PRIOR TO BUILD. REFER TO SITE EARTHING PLAN FOR DETAILS. NO METERING IS REQUIRED ON SITE FOR TELSTRA. COMPLIANCE BOX UNAPPROVED
DRAWING COMPLETED AS PER DESIGN **ALTERATIONS IN RED** E NAME (PRINT) SIGNATURE FOR CONSTRUCTION AMENDMENT APPD DATE **T**elstra DO NOT FOR CONSTRUCTION-SP30101364WO002DOWNER L700 PG 06.11.23 SCALE SMALL CELL SITE 369560 MUSGRAVE ROADHOUSE **ELECTRICAL SPECIFICATION** LOT 1 SP 314593 PENINSULA DEVELOPMENTAL RD, YARRADEN, QLD 4892 DWG SHT NO. Q117801 (C) Telstra Limited ACN 086 174 781 All rights reserved. Cad file: Q117801.dwg





Queensland Heritage Act 1992

Section 74 Exemption Certificate

Application no:	202401-20143 EC
Date application received:	10 January 2024
Date of decision:	16 January 2024
Applicant:	Telstra Corporation Ltd C/- Downer EDI Engineering Pty Ltd : Liz Mansell liz.mansell@downergroup.com
QHR place ID:	600431
QHR place name:	Musgrave Telegraph Station (former)
Location:	Peninsula Development Road MUSGRAVE 4892
Approval summary:	Development type: Building work - Construction of a telecommunications facility comprising — 1 x 20m monopole 1 x omni antenna Supporting operation equipment

The application for an exemption certificate to carry out the development described above, is approved with conditions under section 74 of the *Queensland Heritage Act 1992*.

This exemption certificate attaches to the premises. Any person, including the owners, owners' successors in title and occupiers of the premises, may carry out development permitted by this exemption certificate and is bound by the conditions.

This exemption certificate only applies to development substantially started within 4 years of this decision.

Terms and phrases used in this document are defined principally in the *Queensland Heritage Act 1992*, and in the *Planning Act 2016* and its Regulation.

If more information is required, contact the project manager, Margaret Lawrence-Drew, Principal Heritage Officer on 0476 852 746 or via email margaret.lawrence-drew@des.qld.gov.au.

Anthony Simmons

Cultural Heritage Coordinator

Heritage

Department of Environment, Science and Innovation

Delegate for the Chief Executive

administering the Queensland Heritage Act 1992



Conditions of approval:

No.	Condition	Condition timing
1.	Scope of development approved Carry out the development as described in the application received on 10 January 2024 from the applicant Telstra Corporation Ltd C/- Downer EDI Engineering Pty Ltd: Liz Mansell and the documents listed in 'Approved documents'. In the case of a discrepancy between application documents and conditions, conditions take precedence. (Reason - To ensure development is carried out as approved)	At all times.
2.	Keep a copy of the approval on site A copy of this exemption certificate and a copy of any documents that describe the approved development must be retained at the State heritage place. (Reason – To facilitate the monitoring of development for compliance purposes)	For the duration of the development.
3.	Notify start of development Provide written notice of the start of development to Environmental Services and Regulation, Department of Environment and Science at palm@des.qld.gov.au . The notice must state: name of State heritage place, application number and condition number 3. (Reason – To facilitate the monitoring of development for compliance purposes)	No later than 2 business days prior to the commencement of the development.
4.	Photograph effect of development Submit photographs of the area where the development is undertaken, both before and after the development is completed to Environmental Services and Regulation, Department of Environment and Science at palm@des.qld.gov.au . The submission must state: name of State heritage place, application number and condition number 4. (Reason – To facilitate the monitoring of development for compliance purposes and to ensure change is adequately recorded)	Within 10 business days of completion of the development.
5.	Permit access to the State heritage place Permit access to the State heritage place by Department of Environment and Science officers if requested. (Reason – To facilitate the monitoring of development for compliance purposes)	For the duration of the development.
6.	Protect the State heritage place from damage Protect the existing features of the State heritage place from incidental damage and maintain protective measures to ensure the development does not result in damage to, or deterioration of, the State heritage place caused by weather, fire, vandalism, insects or other factors. (Reason - To ensure the cultural heritage values of the State heritage place are appropriately recognised and managed)	For the duration of the development.
7.	Report any damage to the State heritage place that occurs During development, should damage occur to any features of the State heritage place report such incidents immediately to Environmental Services and Regulation, Department of Environment and Science at palm@des.qld.gov.au . (Reason - To ensure the cultural heritage values of the State heritage place are appropriately recognised and managed)	Immediately, should damage occur.
8.	Excavation Any excavation must occur outside of the Tree Protection Zone of adjacent trees. (Reason – To ensure existing vegetation is protected)	For the duration of the development.

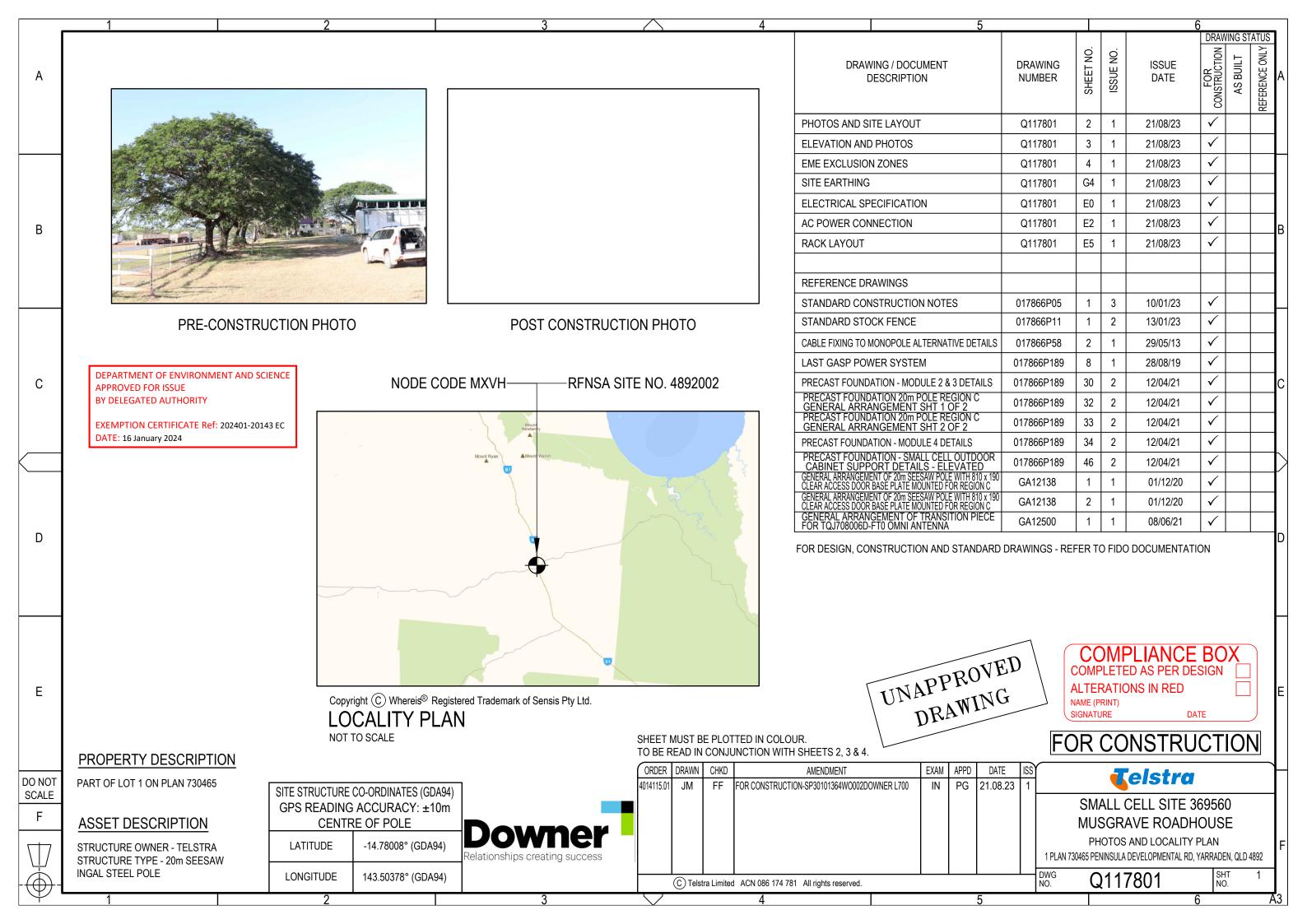
Queensland Heritage Act 1992 Section 74 Exemption Certificate

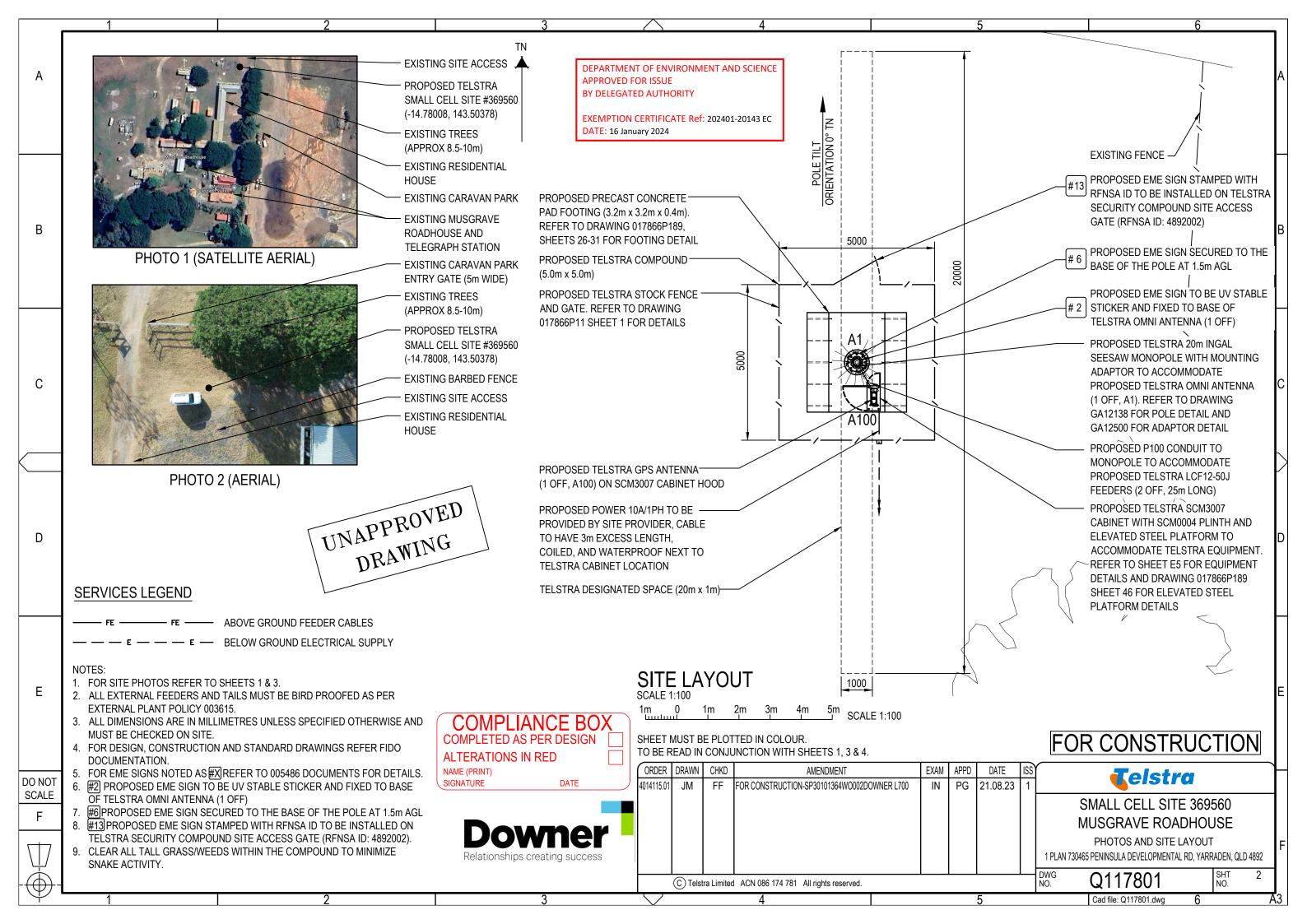
Version 1.2 – 25 November 2020

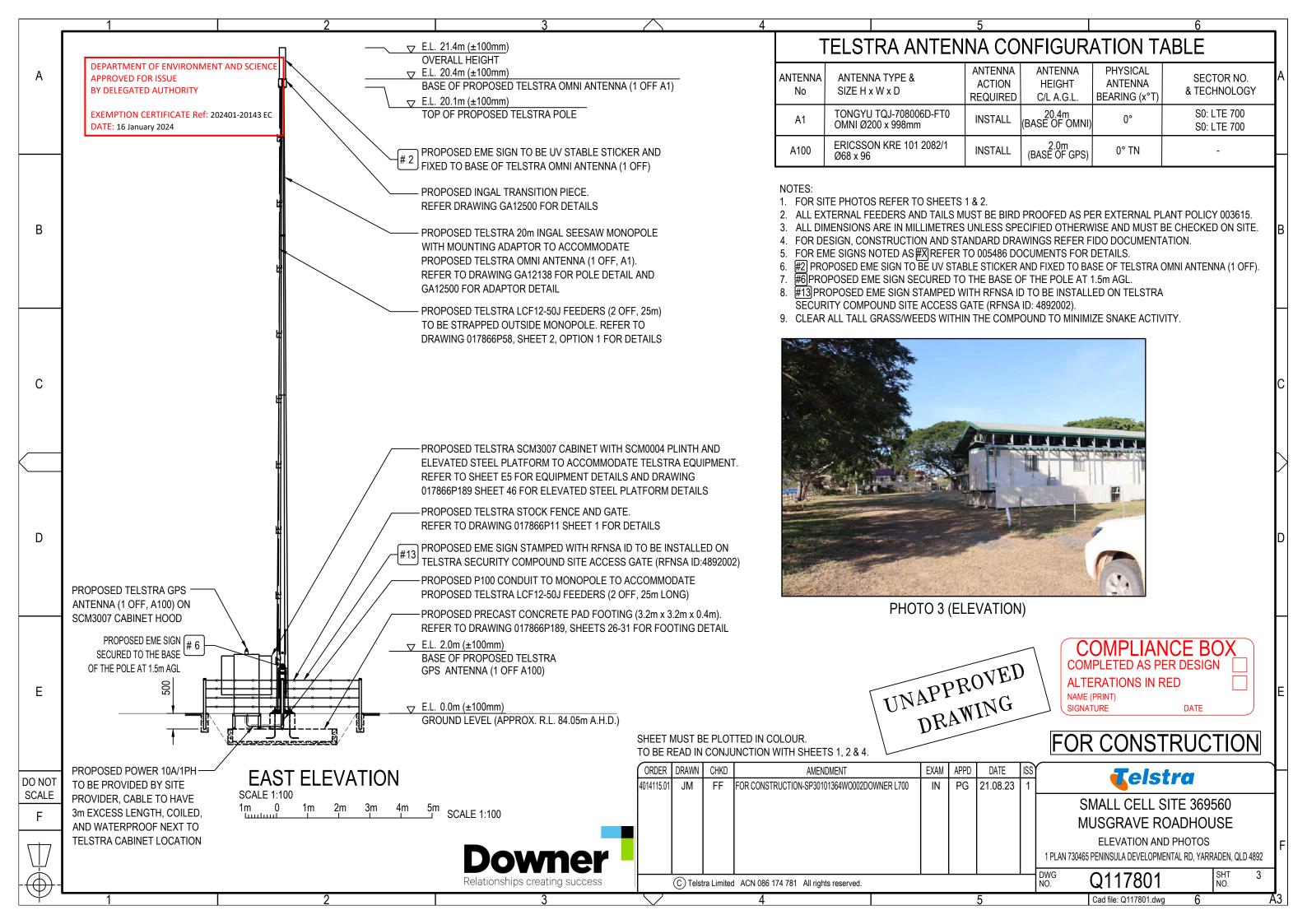
Approved documents:

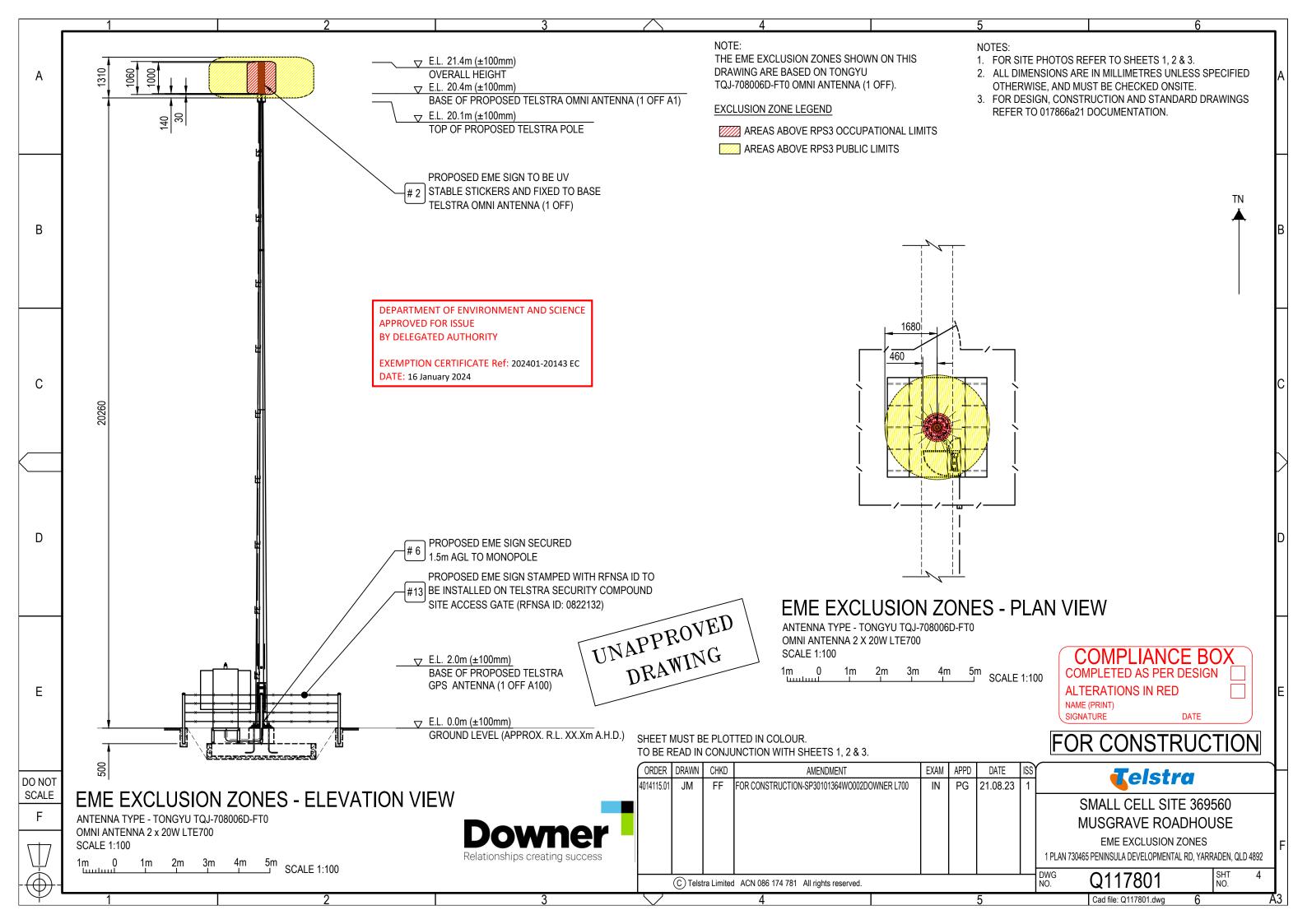
Document no.		Document title	Date
Small Cell Site 369560 Musgrave Roadhouse prepared by Telstra for construction by Downer			
Q117801.1	1	Photos and Locality Plan	21/08/2023
Q117801.2	1	Photos and Site Layout	21/08/2023
Q117801.3	1	Elevation and Photos	21/08/2023
Q117801.4	1	EME Exclusion Zones	21/08/2023
Q117801.G4	1	Site Earthing	21/08/2023
Q117801.E0	1	Electrical Specification	21/08/2023
Q117801.E2	1	AC Power Connection	21/08/2023
Q117801.E5	1	Rack Layout	21/08/2023

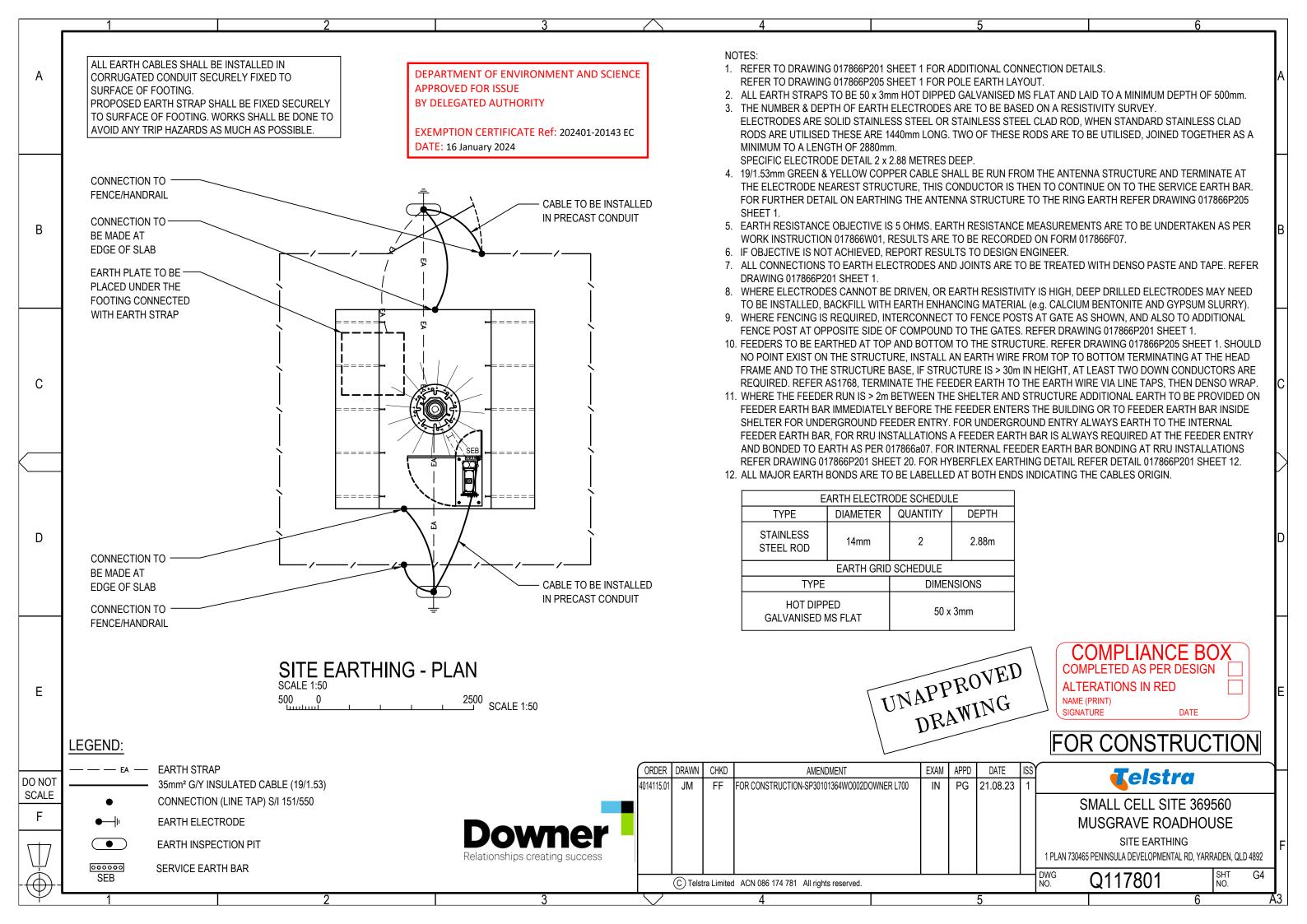
Take Notice: This certificate does not exempt the applicant from the need to obtain such other approvals as may be required under other legislation.











ELECTRICAL SPECIFICATION Α DEPARTMENT OF ENVIRONMENT AND SCIENCE APPROVED FOR ISSUE 1.GENERAL 5.HEAT LOAD BY DELEGATED AUTHORITY SMALL CELL ROADSIDE CABINET HAS PASSIVE COOLING AND ASSOCIATED FANS TO CATER FOR PROPOSED HEAT LOAD. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH: •THESE SPECIFICATION •TELSTRA CIVIL DESIGN MANUAL **EXEMPTION CERTIFICATE Ref: 202401-20143 EC** 6.DC POWER •TELSTRA EARTHING MANUAL DATE: 16 January 2024 PROPOSED INSTALL ERICSSON EPA-PSU-AC (1 OFF) IN PROPOSED SMALL CELL CABINET. ERICSSON PSU-AC SHALL BE •ALL REFERENCED TELSTRA STANDARD DOCUMENTATION POWERED DIRECTLY FROM 16A/1P MCB IN AC DB OF SMALL CELL CABINET. •AS / NZS3000 NO BATTERY RESERVE IS DESIGNED FOR THIS SITE. •AS / NZS3008 •AS / NZS3015 7.RBS •AS / NZS3017 B PROPOSED INSTALL BB6303 (1 OFF) AND RADIO2217 (1 OFF) IN PROPOSED SMALL CELL CABINET. •AS / NZS1768 •AS / ACIF S006 PROPOSED BB6303 AND RADIO2217 SHALL BE SUPPLIED VIA A 10A MCB EACH FROM DC DISTRIBUTION BOARD WITHIN •RELEVANT STATE / TERRITORY SPECIFIC INSTALLATION RULES AND ALL OTHER RELEVANT AUSTRALIAN STANDARDS AS SMALL CELL CABINET. APPLICABLE TO PROPOSED WORKS. ALL INSTALLATION SHALL BE IN ACCORDANCE WITH TELSTRA DEPLOYMENT MANUALS FOR SMALL CELL ON SKID FRAME. 2.STANDARD OF WORK & WORKMANSHIP REFER TO SHEET E5 FOR DETAILS. ALL LOW VOLTAGE AC POWER WORKS SHALL BE COMPLETED BY LICENSED ELECTRICIAN IN ACCORDANCE WITH INSTALLATION RULES AND RELEVANT SAFETY PRACTICES APPLICABLE TO SITE. **8.GPS SYSTEM** PROVIDE AND INSTALL GPS ANTENNA AS PER TELSTRA SPECIFICATIONS FOR SMALL CELLS. ALL WORKS SHALL BE LIAISED AND COORDINATED WITH RELEVANT PERSONNEL. SITE REPRESENTATIVES, LANDOWNER, SITE PROVIDER AND / OR POWER AUTHORITY AS APPLICABLE. 9.LABELLING C ALL LABELLING SHALL BE AS PER TELSTRA REQUIREMENTS FOR SMALL CELLS. ALL WORKS SHALL BE AS PER TELSTRA SPECIFICATIONS AND APPROVED MOPS INCLUDING LABELLING. CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL SITE CONDITIONS AND SAFETY REQUIREMENTS PRIOR TO COMMENCING ANY WORK ON SITE. 10.EARTHING ALL EARTHING AND BONDING IS TO BE IN ACCORDANCE WITH THE TELSTRA EARTHING MANUAL 017866A07. 3.OUTAGES AND PERMITS CONTRACTOR TO VALIDATE ALL APPROVALS AND OUTAGES REQUIRED TO CONDUCT PROPOSED WORKS. THIS INCLUDES ALL CABINETS SHALL BE CONNECTED TO EARTHING SYSTEM AS PER TELSTRA REQUIREMENTS. BUT IS NOT LIMITED TO ANY DONOR SITES AND/OR FAR END SITES WHICH MAY BE IMPACTED DUE TO PROPOSED WORKS. ALL EQUIPMENT INSTALLED IN THE PROPOSED SMALL CELL CABINETS ARE TO BE BONDED TO THE CABINET EARTH BAR. FOR FEEDER EARTHING REFER TO DRAWING 017866P201 SHEET 11. ALL CONTRACTORS WORKING ON TELSTRA FACILITIES SHALL BE TELSTRA ACCREDITED AS PER TELSTRA PROTOCOLS. ALL BONDING CONDUCTORS ARE TO BE LABELLED AT BOTH ENDS IN ACCORDANCE WITH THE TELSTRA EARTHING MANUAL 4.MAINS SUPPLY D 10A / 1P SUPPLY SHALL BE PROVIDED BY SITE PROVIDER, PROVIDE AND INSTALL 10A / 1P CB IN NEXT AVAILABLE POSITION IN DISTRIBUTION BOARD OF MOTEL ROOM BUILDING AS TELSTRA MAIN SWITCH. TELSTRA MAIN SWITCH SHALL BE •PROPOSED EARTH GRID ELECTRODES: 2 OFF LABELLED AS "TELSTRA - DO NOT SWITCH OFF". •PROPOSED EARTH GRID ELECTRODE LENGTH: 2.88M •INSTALLATION METHOD: DRIVEN. PROVIDE AND INSTALL 2C+E 6mm Cu / XLPE MULTICORE MAINS FROM TELSTRA MAIN SWITCH TO 16A / 1P MCB IN AC DB OF PROPOSED TELSTRA SMALL CELL CABINET. REFER TO SITE EARTHING PLAN FOR DETAILS. TELSTRA MAINS SHALL BE INSTALLED ON THE STEEL FLOOR BEAM STRUCTURE AND THEN UNDERGROUND IN 50mm UPVC CONDUIT, ALL EXPOSED CONDUITS SHALL BE UV PROTECTED. COMPLIANCE BOX UNAPPROVED DRAWING APPROXIMATE CABLE RUN IS 40m. COMPLETED AS PER DESIGN Ε **ALTERATIONS IN RED** TELSTRA MAIN SWITCH LOCATION AND PROPOSED CABLE ROUTE SHALL BE CONFIRMED ON SITE WITH SITE PROVIDER NAME (PRINT) PRIOR TO BUILD. SIGNATURE NO METERING IS REQUIRED ON SITE FOR TELSTRA FOR CONSTRUCTION AMENDMENT APPD DATE **T**elstra DO NOT FOR CONSTRUCTION-SP30101364WO002DOWNER L700 PG 21.08.23 **SCALE** SMALL CELL SITE 369560 MUSGRAVE ROADHOUSE **ELECTRICAL SPECIFICATION** 1 PLAN 730465 PENINSULA DEVELOPMENTAL RD, YARRADEN, QLD 4892 DWG SHT NO. Q117801 (C) Telstra Limited ACN 086 174 781 All rights reserved. Cad file: Q117801.dwg

