DA Form 1 – Development application details

Approved form (version 1.3 effective 28 September 2020) made under section 282 of the Planning Act 2016.

This form **must** be used to make a development application **involving code assessment or impact assessment**, except when applying for development involving only building work.

For a development application involving building work only, use DA Form 2 – Building work details.

For a development application involving building work associated with any other type of assessable development (i.e. material change of use, operational work or reconfiguring a lot), use this form (*DA Form 1*) and parts 4 to 6 of *DA Form 2 – Building work details.*

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

1) Applicant details	
Applicant name(s) (individual or company full name)	Kim Cullen and Neil Biddle
Contact name (only applicable for companies)	
Postal address (P.O. Box or street address)	c/- EDGE Consulting Engineers Level 1, 28 Balaclava Street
Suburb	Woolloongabba
State	QLD
Postcode	4102
Country	Australia
Contact number	+61 7 3392 3671
Email address (non-mandatory)	civiladmin@edgece.com
Mobile number (non-mandatory)	
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	

PART 1 – APPLICANT DETAILS

D

) Owner's consent
.1) Is written consent of the owner required for this development application?
Yes – the written consent of the owner(s) is attached to this development application
No – proceed to 3)



PART 2 – LOCATION DETAILS

3) Loca Note: Pa Forms (ation of the p rovide details b Guide: Relevant	oremise elow and t plans.	es (comp I attach a	olete 3.1 site pla) or 3.2), and 3. n for any or all µ	3) as ap premises	plicable) part of t	he development	application. For further information, see <u>DA</u>
3.1) Street address and lot on plan									
Stre	 Street address AND lot on plan (all lots must be listed), or Street address AND lot on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jetty, pontoon. All lots must be listed). 								
	Unit No.	Street	No.	Stree	t Name and	Туре			Suburb
2)		12		Murp	hy Street				Port Douglas
a)	Postcode	Lot No	Э.	Plan	Type and Nu	umber ((e.g. RP	, SP)	Local Government Area(s)
		113		PTD2	2094				Douglas Shire Council
	Unit No.	Street	No.	Stree	t Name and	Туре			Suburb
L)									
D)	Postcode	Lot No	D .	Plan	Type and Nu	umber ((e.g. RP	, SP)	Local Government Area(s)
3.2) C e.g Note : P	oordinates c g. channel drec lace each set o	of prem Iging in N f coordin	iSES (ap) Aoreton B ates in a s	propriate ay) separate	e for developme e row.	ent in ren	note area	as, over part of a	a lot or in water not adjoining or adjacent to land
	ordinates of	premis	es by lo	ongituc	le and latitud	le			
Longit	ude(s)		Latitud	le(s)		Datu	m		Local Government Area(s) (if applicable)
							GS84 DA94 ther:		
	ordinates of	nromis	as hy a	actina	and northing		uiei.		
Eastin		North	$\frac{1}{100}$	asting		Datu			Local Government Area(s) (if applicable)
Lasting	9(3)	NOT	iiig(3)						
					55		DA94		
					56		ther:		
3.3) Ao	dditional pre	mises							
Add atta	ditional prem ached in a so t required	nises ai chedule	re releva to this	ant to develo	this developr opment appli	ment a cation	oplicati	on and the de	etails of these premises have been
1) Idor	tifu onu of th	no follo	wingth	at ann	v to the pror			ido on rolo	vent deteile
4) Ider	nury any or u		wing ina		torogurag or	in or o	ha pro	nde any rele	varit details
		o a wai		orwa		mora	bove a	naquiler	
Name of water body, watercourse of aquiter:									
	of port autho	JIIIY TO	the lot:						
	a tidal area		4 f a a 4 b a	. 4: - -	///				
Name	or local gove	ernmer			area (if applica	able):			
INAME OF PORT AUTORITY FOR TIDAI AREA (<i>if applicable</i>):									
On N	airport land	under	the Airp	ort As	sets (Restru	cturing	and D	sposal) Act 2	2008
Name	of airport:								

Listed on the Environmental Management Register (EMR) under the Environmental Protection Act 1994				
EMR site identification:				
Listed on the Contaminated Land Register (CLR) under the Environmental Protection Act 1994				
CLR site identification:				

5) Are there any existing easements over the premises?

Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development, see <u>DA Forms Guide</u>.

Yes – All easement locations, types and dimensions are included in plans submitted with this development application

🛛 No

PART 3 – DEVELOPMENT DETAILS

Section 1 – Aspects of development

6.1) Provide details about the first development aspect
a) What is the type of development? (tick only one box)
☐ Material change of use ☐ Reconfiguring a lot
b) What is the approval type? (tick only one box)
Development permit Preliminary approval Preliminary approval that includes a variation approva
c) What is the level of assessment?
Code assessment Impact assessment (requires public notification)
d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots):
Operational Works (Dwelling House)
e) Relevant plans Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms quide:</u> Relevant plans
Relevant plans of the proposed development are attached to the development application
6.2) Provide details about the second development aspect
a) What is the type of development? (tick only one box)
Material change of use Reconfiguring a lot Operational work Building work
b) What is the approval type? (tick only one box)
Development permit Preliminary approval Preliminary approval that includes a variation approva
c) What is the level of assessment?
Code assessment Impact assessment (requires public notification)
d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots):
e) Relevant plans Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide:</u> <u>Relevant plans.</u>
Relevant plans of the proposed development are attached to the development application
6.3) Additional aspects of development
 Additional aspects of development are relevant to this development application and the details for these aspects that would be required under Part 3 Section 1 of this form have been attached to this development application Not required

Section 2 – Further development details

7) Does the proposed development application involve any of the following?				
Material change of use	Yes – complete division 1 if assessable against a local planning instrument			
Reconfiguring a lot	Yes – complete division 2			
Operational work	\boxtimes Yes – complete division 3			
Building work	Yes – complete DA Form 2 – Building work details			

Division 1 - Material change of use

Note: This division is only required to be completed if any part of the development application involves a material change of use assessable against a local planning instrument.

8.1) Describe the proposed material change of use							
Provide a general description of the proposed use	Provide the planning scheme definition (include each definition in a new row)	Number of dwelling units (if applicable)	Gross floor area (m ²) <i>(if applicable)</i>				
8.2) Does the proposed use involve the use of existing buildings on the premises?							
Yes							
□ No							

Division 2 – Reconfiguring a lot

Note: This division is only required to be completed if any part of the development application involves reconfiguring a lot.

9.1) What is the total number of existing lots making up the premises?

1				
9.2) What is the nature of the lot reconfiguration? (tick all applicable boxes)				
Subdivision (complete 10))	Dividing land into parts by agreement (complete 11))			
Boundary realignment (complete 12))	Creating or changing an easement giving access to a lot from a constructed road <i>(complete 13))</i>			

10) Subdivision							
10.1) For this development, how many lots are being created and what is the intended use of those lots:							
Intended use of lots created	Residential	Commercial	Industrial	Other, please specify:			
Number of lots created							
10.2) Will the subdivision be stag	10.2) Will the subdivision be staged?						
🗌 Yes – provide additional deta	ils below						
No							
How many stages will the works							
What stage(s) will this developm apply to?	ent application						

11) Dividing land into parts by agreement – how many parts are being created and what is the intended use of the parts?						
Intended use of parts created	Residential	Commercial	Industrial	Other, please specify:		
Number of parts created						

12) Boundary realignment						
12.1) What are the current a	nd proposed areas for each lo	t comprising the premises?				
Current lot Proposed lot						
Lot on plan description	Area (m ²)	Lot on plan description	Area (m ²)			
12.2) What is the reason for the boundary realignment?						

13) What are the dimensions and nature of any existing easements being changed and/or any proposed easement? (attach schedule if there are more than two easements)						
Existing or proposed?	Width (m)	Length (m)	Purpose of the easement? (e.g. pedestrian access)	Identify the land/lot(s) benefitted by the easement		

Division 3 – Operational work

Note: This division is only required to be completed if any part of the development application involves operational work.

14.1) What is the nature of the ope	rational work?		
Road work	🛛 Stormwater	☑ Water infrastructure	
Drainage work	🛛 Earthworks	Sewage infrastructure	
Landscaping	Signage	Clearing vegetation	
Other – please specify:			
14.2) Is the operational work neces	sary to facilitate the creation of n	ew lots? (e.g. subdivision)	
Yes – specify number of new lot	IS:		
🖾 No			
14.3) What is the monetary value o	f the proposed operational work?	(include GST, materials and labour)	
\$			

PART 4 – ASSESSMENT MANAGER DETAILS

15) Identify the assessment manager(s) who will be assessing this development application
Douglas Shire Council
16) Has the local government agreed to apply a superseded planning scheme for this development application?
Yes – a copy of the decision notice is attached to this development application
The local government is taken to have agreed to the superseded planning scheme request – relevant documents

PART 5 – REFERRAL DETAILS

17) Does this development application include any aspects that have any referral requirements? Note: A development application will require referral if prescribed by the Planning Regulation 2017. No, there are no referral requirements relevant to any development aspects identified in this development application - proceed to Part 6 Matters requiring referral to the Chief Executive of the Planning Act 2016: Clearing native vegetation Contaminated land (unexploded ordnance) Environmentally relevant activities (ERA) (only if the ERA has not been devolved to a local government) Fisheries – aquaculture Fisheries – declared fish habitat area Fisheries – marine plants Fisheries – waterway barrier works Hazardous chemical facilities Heritage places – Queensland heritage place (on or near a Queensland heritage place) Infrastructure-related referrals – designated premises Infrastructure-related referrals – state transport infrastructure Infrastructure-related referrals – State transport corridor and future State transport corridor Infrastructure-related referrals – State-controlled transport tunnels and future state-controlled transport tunnels Infrastructure-related referrals – near a state-controlled road intersection Koala habitat in SEQ region – interfering with koala habitat in koala habitat areas outside koala priority areas Koala habitat in SEQ region – key resource areas Ports – Brisbane core port land – near a State transport corridor or future State transport corridor Ports – Brisbane core port land – environmentally relevant activity (ERA) Ports – Brisbane core port land – tidal works or work in a coastal management district Ports – Brisbane core port land – hazardous chemical facility Ports – Brisbane core port land – taking or interfering with water Ports – Brisbane core port land – referable dams Ports – Brisbane core port land – fisheries Ports – Land within Port of Brisbane's port limits (below high-water mark) SEQ development area SEQ regional landscape and rural production area or SEQ rural living area – tourist activity or sport and recreation activity SEQ regional landscape and rural production area or SEQ rural living area – community activity SEQ regional landscape and rural production area or SEQ rural living area – indoor recreation SEQ regional landscape and rural production area or SEQ rural living area – urban activity SEQ regional landscape and rural production area or SEQ rural living area – combined use Tidal works or works in a coastal management district Reconfiguring a lot in a coastal management district or for a canal Erosion prone area in a coastal management district Urban design Water-related development – taking or interfering with water Water-related development – removing quarry material (from a watercourse or lake) Water-related development – referable dams Water-related development –levees (category 3 levees only) Wetland protection area Matters requiring referral to the local government: Airport land Environmentally relevant activities (ERA) (only if the ERA has been devolved to local government)

Heritage places – Local heritage places

Matters requiring referral to the Chief Executive of the distribution entity or transmission entity:

Infrastructure-related referrals – Electricity infrastructure

Matters requiring referral to:

- The Chief Executive of the holder of the licence, if not an individual
- The holder of the licence, if the holder of the licence is an individual

Infrastructure-related referrals - Oil and gas infrastructure

Matters requiring referral to the Brisbane City Council:

Ports – Brisbane core port land

Matters requiring referral to the Minister responsible for administering the Transport Infrastructure Act 1994:

Ports – Brisbane core port land (where inconsistent with the Brisbane port LUP for transport reasons)

Ports – Strategic port land

Matters requiring referral to the relevant port operator, if applicant is not port operator:

Ports - Land within Port of Brisbane's port limits (below high-water mark)

Matters requiring referral to the **Chief Executive of the relevant port authority**:

Ports - Land within limits of another port (below high-water mark)

Matters requiring referral to the **Gold Coast Waterways Authority:**

Tidal works or work in a coastal management district (in Gold Coast waters)

Matters requiring referral to the Queensland Fire and Emergency Service:

Tidal works or work in a coastal management district (involving a marina (more than six vessel berths))

18) Has any referral agency provided a referral response for this development application?

☐ Yes – referral response(s) received and listed below are attached to this development application ⊠ No

Referral requirement	Referral agency	Date of referral response		
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Identify and describe any changes made to the proposed development application that was the subject of the referral response and this development application, or include details in a schedule to this development application *(if applicable)*.

PART 6 – INFORMATION REQUEST

19) Information request under Part 3 of the DA Rules

I agree to receive an information request if determined necessary for this development application

I do not agree to accept an information request for this development application

Note: By not agreeing to accept an information request I, the applicant, acknowledge:

 that this development application will be assessed and decided based on the information provided when making this development application and the assessment manager and any referral agencies relevant to the development application are not obligated under the DA Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties

• Part 3 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules.

Further advice about information requests is contained in the <u>DA Forms Guide</u>.

PART 7 – FURTHER DETAILS

20) Are there any associated development applications or current approvals? (e.g. a preliminary approval)							
Yes – provide details below of	$igtial$ Yes – provide details below or include details in a schedule to this development application \Box No						
List of approval/development application references Reference number Date Assessment manager							
Approval	MCUC 2022_4867/1	12 December 2022	Douglas Shire Council				
Approval Development application							

21) Has the portable long service leave levy been paid? (only applicable to development applications involving building work or operational work)
□ Yes – a copy of the receipted QLeave form is attached to this development application
○ No – I, the applicant will provide evidence that the portable long service leave levy has been paid before the assessment manager decides the development application. I acknowledge that the assessment manager may give a development approval only if I provide evidence that the portable long service leave levy has been paid
○ Not applicable (e.g. building and construction work is less than \$150,000 excluding GST)
Amount paid
○ Date paid (dd/mm/yy)
○ QLeave levy number (A, B or E)

22) Is this development application in response to a show cause notice or required as a result of an enforcement notice?

 \Box Yes – show cause or enforcement notice is attached \boxtimes No

23) Further legislative requirements

Environmentally relevant activities

23.1) Is this development application also taken to be an application for an environmental authority for an **Environmentally Relevant Activity (ERA)** under section 115 of the *Environmental Protection Act 1994*?

Yes – the required attachr accompanies this develop	nent (form ESR/2015/1791) for ment application, and details	or an application for an enviro are provided in the table belov	nmental authority w
No			
Note : Application for an environmen requires an environmental authority	tal authority can be found by searchi to operate. See <u>www.business.qld.g</u> c	ng "ESR/2015/1791" as a search tern <u>ov.au</u> for further information.	n at <u>www.qld.gov.au</u> . An ERA
Proposed ERA number:		Proposed ERA threshold:	
Proposed ERA name:			
Multiple ERAs are applica this development application	ble to this development applic	cation and the details have be	en attached in a schedule to
Hazardous chemical faciliti	<u>es</u>		
23.2) Is this development app	olication for a hazardous che	mical facility?	
Yes – Form 69: Notification	n of a facility exceeding 10%	of schedule 15 threshold is at	tached to this development

🛛 No

Note: See <u>www.business.qld.gov.au</u> for further information about hazardous chemical notifications.

Clearing native vegetation
23.3) Does this development application involve clearing native vegetation that requires written confirmation that the chief executive of the <i>Vegetation Management Act 1999</i> is satisfied the clearing is for a relevant purpose under section 22A of the <i>Vegetation Management Act 1999</i> ?
 Yes – this development application includes written confirmation from the chief executive of the Vegetation Management Act 1999 (s22A determination)
 No Note: 1. Where a development application for operational work or material change of use requires a s22A determination and this is not included, the development application is prohibited development. 2. See <u>https://www.qld.gov.au/environment/land/vegetation/applying</u> for further information on how to obtain a s22A determination.
Environmental offsets
23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a prescribed environmental matter under the <i>Environmental Offsets Act 2014</i> ?
 Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter No
Note : The environmental offset section of the Queensland Government's website can be accessed at <u>www.qld.gov.au</u> for further information on environmental offsets.
Koala habitat in SEQ Region
23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work which is assessable development under Schedule 10, Part 10 of the Planning Regulation 2017?
 Yes – the development application involves premises in the koala habitat area in the koala priority area Yes – the development application involves premises in the koala habitat area outside the koala priority area
No Note: If a koala habitat area determination has been obtained for this premises and is current over the land, it should be provided as part of this
development application. See koala habitat area guidance materials at <u>www.des.qld.gov.au</u> for further information.
Water resources
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?
Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development
No
DA templates are available from https://planning.dsdmip.gld.gov.au/. If the development application involves:
Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1
Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2 Taking overland flow water: complete DA Form 1 Template 3
Taking overland now water. complete DA Form 1 Template 3. Waterway barrier works
23.7) Does this application involve waterway barrier works?
Yes – the relevant template is completed and attached to this development application No
DA templates are available from <u>https://planning.dsdmip.qld.gov.au/</u> . For a development application involving waterway barrier works, complete DA Form 1 Template 4.
Marine activities
23.8) Does this development application involve aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants?
Yes – an associated <i>resource</i> allocation authority is attached to this development application, if required under the <i>Fisheries Act 1994</i>
⊠ No

Quarry materials from a wat	tercourse or lake		
23.9) Does this development under the <i>Water Act 2000?</i>	application involve the remo	val of quarry materials from	a watercourse or lake
☐ Yes – I acknowledge that a ⊠ No Note: Contact the Department of Nate	a quarry material allocation n	otice must be obtained prior t	o commencing development
information.			
Quarry materials from land	under tidal waters		
23.10) Does this development under the <i>Coastal Protection</i>	t application involve the rem e and Management Act 1995?	oval of quarry materials from	n land under tidal water
☐ Yes – I acknowledge that a ⊠ No	a quarry material allocation n	otice must be obtained prior t	o commencing development
Note: Contact the Department of Env	vironment and Science at <u>www.des.</u>	<u>qld.gov.au</u> for further information.	
Referable dams			
23.11) Does this development section 343 of the <i>Water Sup</i>	t application involve a refera ply (Safety and Reliability) Ad	ble dam required to be failure <i>ct 2008</i> (the Water Supply Act	e impact assessed under ;)?
Yes – the 'Notice Acceptin Supply Act is attached to th ⊠ No	g a Failure Impact Assessme his development application	ent' from the chief executive a	dministering the Water
Note: See guidance materials at www	w.dnrme.qld.gov.au for further inform	nation.	
Tidal work or development	within a coastal manageme	ent district	
23.12) Does this development	t application involve tidal wo	ork or development in a coas	stal management district?
 Yes – the following is inclu Evidence the propositive proposition involves proposition involves proposition A certificate of title 	ded with this development a al meets the code for assess escribed tidal work)	pplication: sable development that is pre	scribed tidal work (only required
Note: See quidance materials at www	w.des.ald.gov.au for further informat	tion.	
Queensland and local herita	age places		
23.13) Does this development heritage register or on a place	t application propose develop ce entered in a local governn	oment on or adjoining a place nent's Local Heritage Regist	entered in the Queensland er?
☐ Yes – details of the heritag	e place are provided in the t	able below	
Note: See guidance materials at www	<u>v.des.qld.gov.au</u> for information req	uirements regarding development of	Queensland heritage places.
Name of the heritage place:		Place ID:	
<u>Brothels</u>			
23.14) Does this development	t application involve a mater	ial change of use for a broth	nel?
 Yes – this development ap application for a brothel un No 	plication demonstrates how to obtain the prosting of the Prost	the proposal meets the code t tution Regulation 2014	or a development
Decision under section 62 c	of the Transport Infrastruct	ure Act 1994	
23.15) Does this development	t application involve new or o	changed access to a state-cor	ntrolled road?
 Yes – this application will b Infrastructure Act 1994 (su satisfied) No 	be taken to be an application bject to the conditions in sec	for a decision under section 6 tion 75 of the <i>Transport Infras</i>	32 of the <i>Transport</i> structure Act 1994 being

Walkable neighbourhoods assessment benchmarks under Schedule 12A of the Planning Regulation

23.16) Does this development application involve reconfiguring a lot into 2 or more lots in certain residential zones (except rural residential zones), where at least one road is created or extended?

Schedule 12A is applicable to the development application and the assessment benchmarks contained in schedule 12A have been considered

🛛 No

Note: See guidance materials at <u>www.planning.dsdmip.qld.gov.au</u> for further information.

PART 8 – CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17 Note: See the Planning Regulation 2017 for referral requirements	⊠ Yes
If building work is associated with the proposed development, Parts 4 to 6 of <u>DA Form 2 –</u> <u>Building work details</u> have been completed and attached to this development application	☐ Yes ⊠ Not applicable
Supporting information addressing any applicable assessment benchmarks is with the development application Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning schemes, State Planning Policy, State Development Assessment Provisions). For further information, see <u>DA</u> Forms Guide: Planning Report Template.	⊠ Yes
Relevant plans of the development are attached to this development application Note : Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide: Relevant plans</u> .	🛛 Yes
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21)	⊠ Yes ☐ Not applicable

25) Applicant declaration

- By making this development application, I declare that all information in this development application is true and correct
- Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications from the assessment manager and any referral agency for the development application where written information is required or permitted pursuant to sections 11 and 12 of the *Electronic Transactions Act 2001*

Note: It is unlawful to intentionally provide false or misleading information.

Privacy – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any relevant referral agency and/or building certifier (including any professional advisers which may be engaged by those entities) while processing, assessing and deciding the development application. All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website.

Personal information will not be disclosed for a purpose unrelated to the *Planning Act 2016*, Planning Regulation 2017 and the DA Rules except where:

- such disclosure is in accordance with the provisions about public access to documents contained in the *Planning Act 2016* and the Planning Regulation 2017, and the access rules made under the *Planning Act 2016* and Planning Regulation 2017; or
- required by other legislation (including the Right to Information Act 2009); or
- otherwise required by law.

This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002.*

PART 9 – FOR COMPLETION OF THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received:	Reference numb	er(s):
Notification of eng	gagement of alternative assessment man	ager
Prescribed asses	sment manager	
Name of chosen assessment manager		
Date chosen assessment manager engaged		
Contact number of	of chosen assessment manager	
Relevant licence	number(s) of chosen assessment	

manager

QLeave notification and payment Note: For completion by assessment manager if applicable					
Description of the work					
QLeave project number					
Amount paid (\$)		Date paid (dd/mm/yy)			
Date receipted form sighted by assessment manager					
Name of officer who sighted the	e form				

12 MURPHY STREET, PORT DOUGLAS QLD 4877



LOCALITY PLAN

DRAWING REGISTER

DRAWING No.	DRAWING TITLE
C001	COVER SHEET
C002	CONSTRUCTION NOTES
C101	EROSION & SEDIMENT CONTROL PLAN
C201	BULK EARTHWORKS PLAN SHEET 1
C202	BULK EARTHWORKS PLAN SHEET 2
C231	BULK EARTHWORKS SECTIONS SHEET 1
C232	BULK EARTHWORKS SECTIONS SHEET 2
C301	STORMWATER & SITE GRADING PLAN SHEET 1
C302	STORMWATER & SITE GRADING PLAN SHEET 2
C331	DRIVEWAY LONGITUDINAL SECTIONS
C341	STORMWATER LONGITUDINAL SECTIONS
C601	WATER RETICULATION PLAN
C701	SEWER RETICULATION PLAN



RPEQ NAME: ERIN HOGAN					Brisbane . Australia 1st Floor, 28 Balaclava Street.	Project Name 12 MUF	RPHY STR	EET RESIDI	ENCE	Drawing Title COVER SHEET	
RPEQ No: 21411					Queensland, 4102, Australia	LOT113	PTD2094 M	URPHY STRE	ET		
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DATE. 18.11.22	P3 09.01.23 FOR APF	PROVAL	ST MS	www.edgece.com	E: brisbane@edgece.com	Client				Project No.	
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GENERAL NOTES

- 1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
- 2. ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING SEVEN DAYS PRIOR TO COMMENCEMENT OF WORKS.
- 3. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
- 4. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN RECREATED FROM 2D SURVEY AND LIDAR TERRAIN MODEL THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES. CONTRACTOR TO ENSURE WORKS FOLLOW DESIGN INTENT. CONTRACTOR TO ADVISE SUPERINTENDENT OF MAJOR DISCREPANCIES.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR GAINING APPROVAL OF THE TRAFFIC MANAGEMENT PLAN FROM COUNCIL AT LEAST 7 DAYS PRIOR TO WORKS COMMENCING OR EARLIER IF REQUIRED. THE TRAFFIC MANAGEMENT PLAN AND TRAFFIC CONTROL PLAN INCLUDING ANY ACCESS REQUIREMENTS SHALL BE APPROVED BY THE COORDINATING ROAD AUTHORITY APPROPRIATE TO THE PROJECT
- 6. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE INTERNAL ROAD RESERVE AND CARPARK. ANY DAMAGE CAUSED TO EXISTING KERB & CHANNEL OR FOOTPATHS MUST BE MADE GOOD.
- INSTALL ALL VEGETATION PROTECTION, EROSION AND SEDIMENT CONTROL, AND SITE-SPECIFIC MEASURE PRIOR TO COMMENCEMENT OF ANY WORK.
- 8. ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE
- 9. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK ALL EXISTING SERVICES AND STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT ANY COSTS ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR
- 10. THE SITE OF THE PROPOSED WORKS SHALL BE CLEARED OF ALL UNDESIRABLE MATTER THIS SHALL INCLUDE DEAD TIMBER. BOULDERS. GRASS. OLD FOUNDATIONS. CONCRETE. REDUNDANT BUILDING MATERIALS, GARBAGE, DEBRIS AND OTHER OBSTRUCTIONS HOLES LEFT BY THE REMOVAL OF MATERIAL SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL
- 11. CLEARED MATERIAL AND EARTHWORKS SPOIL SHALL BE REMOVED FROM SITE NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE OR COMMON PROPERTY UNLESS OTHERWISE DIRECTED BY THE SITE ENGINEER OR SUPERINTENDENT.
- 12. TOPSOIL SHALL BE STRIPPED AND STOCKPILED PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS OPERATION. TOPSOIL IS TO BE RESPREAD TO LANDSCAPE AREAS AFTER CIVIL WORKS ARE COMPLETE SURPLUS TOPSOIL TO BE REMOVED FROM SITE
- 13. ALL BATTERS SHALL BE 1 IN 4, UNLESS OTHERWISE SHOWN.
- 14. THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS SHALL BE PROVEN ON SITE THE APPROPRIATE AUTHORITY SHALL BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 15. BULK EARTHWORKS LEVELS AT BUILDING PLATFORMS ARE BASED ON PRELIMINARY FOUNDATION DESIGNS. LEVELS TO SUIT FINAL DESIGN SHOULD BE CONFIRMED PRIOR TO FINAL TRIM OF BUILDING PLATFORMS

TREE PROTECTION NOTES

- 1. TREE PROTECTION MEASURES (TPZ FENCE & GROUND PROTECTION) ARE TO BE INSTALLED IN ACCORDANCE WITH AS 4970-2009 PROTECTION OF TREES ON DEVELOPMENT SITES.
- 2. WHERE TREES TO BE RETAINED HAVE A >10% ENCROACHMENT INTO THE TPZ. THE FOLLOWING CONDITION APPLY:

100mm DEPTH OF FOREST MULCH TO BE APPLIED TO TPZ

EARTHWORKS NOTES

- 1. GENERAL EARTHWORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER AND LOCAL REGIONAL COUNCIL.
- 2. THE CONTRACTOR SHALL PREPARE THE SUBGRADE FOR PROOF ROLLING TO BE WITNESSED BY THE SUPERINTENDENT AND SITE ENGINEER. PROOF ROLLING SHALL BE CARRIED OUT BY FULLY LADEN WATER TRUCK OR SIMILAR CONSTRUCTION MACHINERY APPROVED BY THE SUPERINTENDENT.
- 3. FILLING SHALL BE COMPACTED IN LAYERS TO A DENSITY NOT LESS THAN 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1 (STANDARD COMPACTION), ROADWAY EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH QUEENSLAND DEPARTMENT OF MAIN ROADS SPECIFICATION MRS04 GENERAL EARTHWORKS.
- 4. THE VOID BENEATH THE STIFFENED SLAB IS TO BE FILLED WITH NON-REACTIVE FILL MATERIAL WITH A MAXIMUM SHRINK-SWELL INDEX NO GREATER THAN 1% PER ApF.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH

- A. LOCAL AUTHORITY REQUIREMENTS.
- B. EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER. C. ICEA - BEST PRACTICE EROSION & SEDIMENT CONTROL
- 2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS SHOULD THE CONTRACTOR STAGES THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADOPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
- 3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
- 5. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
- 6. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES. 7. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING
- DAY AND MODIFIED TO BEST SUIT SITE CONDITIONS.
- 8. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE. 9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY /EXIT.
- 10. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
- 11. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT. AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT EARTH BUNDS AND SEDIMENT FENCES IF DAMAGE HAS OCCURRED MAKE THE NECESSARY REPAIRS.
- 13. CHECK ALL EMBANKMENTS FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES; MAKE ALL NECESSARY REPAIRS. 14. SEDIMENT FLOCCULATION IS REQUIRED PRIOR TO DISCHARGE OF ACCUMULATED RUNOFF ON SEDIMENT

APPLICATION

- TREATMENT OF WATER UNLESS LOCAL EXPERIENCE OR OTHER CRITERIA SUGGEST DIFFERENTLY.
- INTENSITY STORMS ARE LIKELY. THE APPLICATION RATE MUST BE CALIBRATED. DEPENDING ON THE FLOCCULENT AGENT.

WATER QUALITY & TESTING

- A SUSPENDED SOLID CONTENT OF LESS THAN 50 MILLIGRAMS PER LITRE IS REQUIRED. 2. TURBIDITY (NTU) VALUE LESS THAN OR EQUAL TO 8 NTU PER THE ACID SULFATE SOILS MANAGEMENT
- PLAN. 3. PH VALUE MUST BE IN THE RANGE 7.0 TO 8.4 PER THE ACID SULFATE SOILS MANAGEMENT PLAN.
- TURBIDITY AND PH DISCHARGE REQUIREMENTS. 5. WATER QUALITY RESULTS ARE TO BE RECORDED WITHIN A WATER QUALITY TESTING REGISTER.

WATER DISCHARGE

- 24 HOURS.
- THE OUTFLOW MUST NOT CAUSE EROSION OR ADVERSELY AFFECT DOWNSTREAM ENVIRONMENTS. 3. A MARKER PEG SHOULD BE INSTALLED IN THE BASIN TO CLEARLY IDENTIFY THE MAXIMUM SEDIMENT
- STORAGE LEVEL. THE SITE.

SEQUENCE OF WORKS

- INSTALLED.
- SYSTEMS
- D. CONSTRUCT SEDIMENTATION TRAPS BASIN INCLUDING OUTLET CONTROL AND OVERFLOW

PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.

ROADWORKS:

- 1. ALL DIMENSIONS AND SETOUT ARE TO LIP OF KERB U.N.O.
- 2. LEVELS ARE TO FACE OF KERB/LIP OF KERB/KERB AND CHANNEL U.N.O.
- WORKS AND SHALL BE AT LEAST THE MINIMUM SPECIFIED IN THE PROJECT SPECIFICATION.
- 4. PAVEMENTS MATERIALS SHALL BE AS FOLLOWS: A. ASPHALTIC CONCRETE TO AS 2150;
- B. BASE COURSE DTMR TYPE 2.1, SOAKED CBR 80; C. SUBBASE COURSE - DTMR TYPE 2.3, SOAKED CBR 45;
- D. SUBGRADE REPLACEMENT DTMR TYPE 2.5. SOAKED CBR 15:
- 5. MINIMUM PAVEMENT COMPACTION TO BE AS FOLLOWS: A. SUBBASE AND BASE - 95% MODIFIED MAXIMUM DRY DENSITY TO AS1289.5.4.1
- 6. SUB-SOIL DRAINAGE SHALL BE INSTALLED UNDER ALL NEW KERB AND CHANNEL AND ROAD EDGES AND GRADED TO CONNECT WITH DRAINAGE INLET PITS AT A MINIMUM OF 0.5%.

- VALUE OF 80 AND COMPACTED TO 95% R.D.D. MODIFIED COMPACTION. 9. ASPHALT SURFACING SHALL BE MIN. 30mm COMPACTED THICKNESS AND IN ACCORDANCE WITH
- DEPARTMENT OF TRANSPORT AND MAIN ROAD SPECIFICATIONS. 10. SUBSOIL DRAIN SHALL BE IN ACCORDANCE WITH IPWEAQ STD DRG RS-140 AND 142.
- STRUCTURAL CAPACITY OF PIPEWORK IS NOT EXCEEDED.
- 12. ALL WORKS TO CONFORM TO LOCAL AUTHORITY STANDARDS U.N.O.
- THE LOCAL AUTHORITY.
- 14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SAFETY OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION. 15. COMPACTION TEST RESULTS AND TEST LOCATIONS FOR SUBGRADE SHALL BE SUBMITTED TO AND
- APPROVED BY THE ENGINEERS PRIOR TO PLACING PAVEMENT MATERIALS. 16. PROOF ROLL TESTS OF THE SUBGRADE ARE TO BE UNDERTAKEN TO IDENTIFY LOCALISED POOR GROUND
- TO BE REMOVED OR REWORKED PRIOR TO THE PLACING OF PAVEMENT MATERIAL.
- THE SPECIFICATION. AND TO THE APPROVAL OF THE SUPERINTENDENT. FOOTPATH.

SIGNAGE AND LINEMARKING

- CONTROL DEVICES (MUTCD). TRAFFIC MANUALS.

CONCRETE

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 UNLESS SHOWN OTHERWISE. CONCRETE SHALL HAVE A STRENGTH GRADE OF N32 UNLESS NOTED OTHERWISE.

BASINS.

GENERALLY, GYPSUM IS MIXED INTO SLURRY WITH WATER AND THEN SPRAYED OVER THE PONDED WATER. ALTERNATE FLOCCULENTS SHOULD BE APPLIED PER MANUFACTURER GUIDELINES. IT IS ESSENTIAL THAT THE FLOCCULATING AGENT IS SPREAD EVENLY OVER THE ENTIRE SURFACE FOR PROPER

2. STANDARD BASIN FLOCCULATION RATES FOR GYPSUM GENERALLY VARY BETWEEN 32 KILOGRAMS PER 100 CUBIC METRES TO 70 KILOGRAMS PER 100 CUBIC METRES IN AREAS WHERE REPEATED HIGH

3. SETTLEMENT TIME - NORMALLY, SUFFICIENT SEDIMENT WILL HAVE FLOCCULATED AND SETTLES WITHIN ABOUT 24 TO 48 HOURS IN THE CASE OF GYPSUM. HOWEVER, RESULTS MAY BE EVIDENT SOONER

UPON THE FIRST DISCHARGES, OBTAIN SAMPLES AND TEST SAMPLES IN A LABORATORY TO ENSURE THAT THE SUSPENDED SOLID CONTENT, TURBIDITY, AND PH ARE WITHIN ACCEPTABLE LEVELS. REGULAR SAMPLING OF THE DISCHARGED WATER SHOULD BE COMPLETED TO VERIFY COMPLIANCE WITH TSS,

1. DISCHARGE SHOULD BE ACHIEVED WITH A SYSTEM THAT PERMITS DRAINAGE OF THE BASIN IN LESS THAN

4. SEDIMENT EXTRACTED FROM THE BASIN SHALL BE SUITABLY DISPOSED OF IN SEDIMENT DUMPS, OR MIXED WITH ON-SITE SOILS IN A MANNER THAT WILL NOT RESULT IN UNNECESSARY SOIL EROSION OR SEDIMENT RUNOFF FROM THE SITE. OTHERWISE. THE SEDIMENT SHALL BE DRIED AND REMOVED FROM

. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE

A. CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES

B. CONSTRUCT TEMPORARY CONSTRUCTION ENTRY EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL

C. CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEM

3. PAVEMENT DEPTHS SHOWN ON THE DRAWINGS ARE NOMINAL ONLY AND SHALL BE DETERMINED AFTER INSPECTION AND TESTING OF SUBGRADE. THE CONTRACTOR SHALL IN ALL CASES OBTAIN PARTICULARS OF THE PAVEMENT THICKNESS BEFORE PROCEEDING WITH THE FORMATION OF THE ROAD BOX. CBR TESTING SHALL BE UNDERTAKEN AT 25m INTERVALS ALONG THE PAVEMENT AND ANY ADDITIONAL LOCATIONS DETERMINED BY THE GEOTECHNICAL ENGINEER/OR SUPERINTENDENT SUPERVISING THE

7. EARTHWORKS SUBGRADE SHALL BE COMPACTED TO 98% R.D.D STANDARD COMPACTION

8. GRAVEL PAVEMENT SHALL BE CRUSHED ROCK OR SOIL AGGREGATE HAVING A FOUR DAY CBR-SOAKED

11. CONSTRUCTION OVER PIPES TO USE SUITABLE CONSTRUCTION/COMPACTION PLANT TO ENSURE MAXIMUM

13. ALL IMPORTED AND EXPORTED MATERIALS ARE TO BE TRANSPORTED ONLY ON ROUTES APPROVED BY

17. ALL LAYERS OF PAVEMENT WORKS AND EARTHWORKS ARE TO BE PROOF ROLLED AND TESTED AS PER

18. ALL CONSTRUCTION SHALL JOIN SMOOTHLY AND NEATLY TO EXISTING SURFACES AND STRUCTURES. TACTILE INDICATORS TO BE PROVIDED AT PRAM RAMPS WHERE THEY CONNECT WITH CONCRETE

1. ALL WORKS TO BE IN ACCORDANCE WITH AS1742, AS2890 AND DTMR MANUAL OF UNIFORM TRAFFIC

2. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH LOCAL COUNCIL'S LINEMARKING AND

- NOMINAL MAXIMUM AGGREGATE SIZE SHALL BE 20mm UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL BE NOMINAL 80mm UNLESS NOTED OTHERWISE.
- 5. ADMIXTURES SHALL NOT BE USED WITHOUT WRITTEN APPROVAL.
- 6. ALL CONCRETE SURFACES SHALL BE CURED BY APPROVED MEANS FOR A MINIMUM CONTINUOUS DURATION OF 7 DAYS COMMENCING IMMEDIATELY AFTER THE INITIAL SET OF THE CONCRETE.
- 7. CONCRETE COVER TO REINFORCEMENT INCLUDING FITMENTS SHALL BE 50mm UNLESS NOTED OTHERWISE.
- 8. CONCRETE FACES AT CONSTRUCTION JOINTS SHALL BE THOROUGHLY SCABBLED, FREE OF LAITANCE, CLEANED AND WETTED THOROUGHLY PRIOR TO THE PLACEMENT OF ABUTTING CONCRETE.
- 9. CONSTRUCTION JOINTS WHERE NOT SHOWN ON THE DRAWINGS SHALL BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT

STORMWATER

- 1. ALL PIPES LESS THAN OR EQUAL TO 225Ø ARE TO BE SOLVENT WELD-JOINTED SEWER GRADE uPVC CLASS SH, OR (MIN) CLASS 2 RUBBER-RING JOINTED RCP (UNO).
- 2. WHERE uPVC STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- PIPES GREATER THAN OR EQUAL TO 300Ø ARE TO BE (MIN) CLASS 2 RUBBER-RING JOINTED RCP (UNO).
- 4. FRC PIPES EQUIVALENT TO THE STEEL REINFORCED CONCRETE PIPE CLASS SPECIFIED ON THE DRAWINGS MAY BE USED - OBTAIN SUPERINTENDENTS APPROVAL
- 5. ALL PIPES ARE TO BE LAID AT (MIN) 1.0% GRADE (UNO)
- 6. THE USE OF PRE-CAST STORMWATER DRAINAGE PITS IS NOT ACCEPTED WITHOUT CONFIRMATION BETWEEN EDGE CONSULTING ENGINEERS AND THE CONTRACTOR REGARDING QUALITY CONTROL, AND CERTIFICATION OF FINISHES.
- 7. COVERS A. USE HOT DIPPED GALVANISED COVERS AND GRATES COMPLYING WITH RELEVANT AUSTRALIAN AND
- COUNCIL STANDARDS. B. ALL COVERS AND GRATES TO BE POSITIONED IN A FRAME AND MANUFACTURE AS A UNIT
- C. ALL COVERS AND GRATES TO BE FITTED WITH POSITIVE COVER LIFTING KEYS.
- D. OBTAIN SUPERINTENDENT'S APPROVAL FOR THE USE OF CAST IRON SOLID COVERS AND GRATES. CAST IRON SOLID COVERS (IF APPROVED) TO CONSIST OF CROSS-WEBBED, CELLULAR CONSTRUCTION WITH THE RIBS UPPERMOST TO ALLOW INFILLING WITH CONCRETE. INSTALL POSITIVE COVER LIFTING KEYS AND PLASTIC PLUGS.
- E. UNLESS DETAILED OR SPECIFIED OTHERWISE COVERS AND GRATES TO BE CLASS "C" IN VEHICULAR PAVEMENTS AND CLASS "B" ELSEWHERE.
- 8. ALL PIPE BENDS, JUNCTIONS, ETC. ARE TO BE PROVIDED USING PURPOSE MADE FITTINGS OR STORMWATER PITS.
- 9. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT PIPE PENETRATIONS SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH
- 10. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTERS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- 11. U.N.O. MATERIAL USED FOR BEDDING OF PIPES SHALL BE APPROVED NON-COHESIVE GRANULAR MATERIAL HAVING HIGH PERMEABILITY AND HIGH STABILITY WHEN SATURATED AND FREE OF ORGANIC AND CLAY MATERIAL
- 12. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED (OR 75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK.
- 13. BEDDING SHALL BE (UNO) TYPE HS2 UNDER ROADS; H2 GENERAL AREAS, IN ACCORDANCE WITH CURRENT RELEVANT INDUSTRY STANDARDS AND GUIDELINES.
- 14. THE WEATHER PROOFING OF THE BUILDING IS THE ARCHITECT'S /BUILDER'S RESPONSIBILITY. THIS INCLUDES THE SPECIFICATION AND FIXING DETAILS OF CLADDINGS, SHEETING, FLASHING AND MEMBRANES.
- 15. THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION. ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
- 16. NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH ARE 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER.
- 17. Ø100mm SUB-SOIL DRAINAGE LINES WITH NON-WOVEN GEOTEXTILE SOCK SURROUND SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT (AT min. 1% LONGITUDINAL GRADE) AND PROVIDED IN THE FOLLOWING LOCATIONS:
 - A. THE HIGH SIDE OF PROPOSED TRAFFICKED AND CARPARK PAVEMENT AREAS.
 - B. ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT AREAS.
 - C. BEHIND RETAINING WALLS (IN ACCORDANCE WITH DRAWINGS). D. ALL OTHER AREAS SHOWN ON THE DRAWINGS.
- 18. THE CONTRACTOR SHALL INSTALL INSPECTION OPENINGS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS. AT MAXIMUM 60m CENTERS AND AT ALL UPSTREAM ENDPOINTS.
- 19. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS SEALED uPVC SEWER GRADE PIPE SHALL BE USED.
- 20. PROVIDE 3.0m LENGTH OF Ø100 SUBSOIL DRAINAGE PIPE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC. TO THE UPSTREAM SIDE OF STORMWATER PITS. LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO THE DRAINAGE PIT.
- 21. ALL RECTANGULAR HOLLOW SECTIONS (RHS) SPECIFIED AS STORMWATER CONDUITS TO BE HOT DIPPED GALVANISED AND HAVE (MIN) 5mm WALL THICKNESS.

TENDER NOTES

- 1. THESE DRAWINGS ARE PRELIMINARY DRAWINGS ISSUED FOR TENDER AS AN INDICATION OF THE EXTENT OF WORKS ONLY. THEY ARE NOT A COMPLETE CONSTRUCTION SET OF DRAWINGS.
- 2. TO DETERMINE THE FULL EXTENT OF WORK, THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. ALLOW FOR ALL ITEMS SHOWN ON ARCHITECTURAL AND OTHER DRAWINGS AS NOT ALL ITEMS ARE SHOWN ON THE STRUCTURAL/CIVIL WORKS DRAWINGS.
- 3. SHOULD ANY AMBIGUITY, ERROR, OMISSIONS, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST OR SEEM TO EXIST IN THE DOCUMENTS, IMMEDIATELY NOTIFY IN WRITING TO THE SUPERINTENDENDENT
- 4. RATES SHOWN ON THE DRAWINGS ARE FOR THE FINAL STRUCTURE/CIVIL WORKS IN PLACE AND DO NOT ALLOW FOR ANY WASTAGE, ROLLING MARGINS, OVER SUPPLY OR FABRICATION REQUIREMENTS.

RPEQ NAME: ERIN HOGAN				HAGE	Brisbane . Australia 1st Floor, 28 Balaclava Street. Woolloonaabba.	Project Name 12 MU	RPHY STR	REET RESID	ENCE		CONSTRUCTION NOTES	
RPEQ No: 21411			·		Queensland, 4102, Australia		8 PTD2094 M	IURPHY STRE	ET			
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RPEQ NAME: ERIN HOGAN			HNCE	Prisbane . Australia 1st Floor, 28 Balaclava Street. Woolloongabba,		RPHY STR	EET RESID	ENCE	Drawing Title EROSION & SEDIMENT CONTROL PLAN		
RPEQ No: 21411				Queensland, 4102, Australia	LOT113 PTD2094 MURPHY STREET						
		 	CONSULTING ENGINEERS www.edgece.com	T: +61 7 3392 3671 E: brisbane@edgece.com	PORT D	OUGLAS QL	_D 4877				
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LEGEND

	PROPERTY BOUNDARY
	EXISTING MINOR &
— 11.1 — — —	MAJOR CONTOUR (0.100m)
	EXISTING BUILDING
	EXISTING BATTER TOP
	EXISTING BATTER TOE
RET WALL	EXISTING RETAINING WALL
>>	EXISTING SWALE
— — SW — — —	EXISTING STORMWATER
— 11.1 ———	PROPOSED MINOR & MAJOR CONTOUR (0.100m)
	PROPOSED BUILDING
Y	PROPOSED BATTER TOP
	PROPOSED BATTER TOE
	PROPOSED RETAINING WALL
	PROPOSED STORMWATER
[[]]	TEMPORARY SEDIMENT FENCE
$\rightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow$	TEMPORARY CLEAN WATER CUT OFF DRAI
$\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow -$	TEMPORARY DIRTY WATER CUT OFF DRAIN
\circ	TEMPORARY SEDIMENTATION TRAP
	TEMPORARY CONSTRUCTION ENTRY / EXIT
	FLOW DIRECTION
	CHECK DAM
STANDARD DF	RAWINGS

THE FOLLOWING INTERNATIONAL EROSION AND SEDIMENT CONTROL ASSOCIATION OF AUSTRALIA (IECA) STANDARD DRAWINGS APPLY: DC-01 DIVERSION CHANNELS DB-01 FLOW DIVERSION BANK EXIT-04 - 06 **CONSTRUCTION EXIT - VIBRATION GRIDS** AND WASH BAY FS-01 FILTER SOCK - CONCENTRATED FLOW GULLY BAG INLET PROTECTION GB-01 ON-GRADE KERB INLET SEDIMENT TRAP 0G-1 SAG KERB INLET SEDIMENT TRAP SA-01 SEDIMENT FENCE SF-01 & SF-02

WARNING

THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING SERVICES ON AND EXTERIOR TO THE SITE INCLUDING WATER MAINS, SEWER MAINS, GAS MAINS, TELECOMMUNICATIONS CABLES, ELECTRICAL CABLES, AND STORMWATER PIPES. ANY DAMAGE TO EXISTING SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

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PROPOSED MINOR & MAJOR CONTOUR (0.100m) PROPOSED BUILDING PROPOSED BATTER TOP PROPOSED BATTER TOE PROPOSED RETAINING WALL PROPOSED SWALE PROPOSED EARTHWORKS CUT

PROPOSED EARTHWORKS FILL

TEST PIT

NOTE

A SOILS INVESTIGATION HAS BEEN CARRIED OUT BY GEO DESIGN, REFERENCE No. 22021AA-D-R01, DATED APRIL 2022. THIS REPORT MUST BE READ IN ITS ENTIRETY PRIOR TO CONSTRUCTION BEING UNDERTAKEN.

ANY UNSUITABLE MATERIAL ENCOUNTERED IS TO BE TREATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

TEMPORARY BATTERS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT

2.5

RPEQ NAME: ERIN HOGAN RPEQ No: 21411			HACE	Brisbane . Australia 1st Floor, 28 Balaclava Street.	Project Name 12 MUR	PHY STR	EET RESID	ENCE	Drawing Title BULK EARTHWORKS PLAN SHEET 1	
				Queensland, 4102, Australia	LOT113 F	PTD2094 M	URPHY STRE	ET		
DATE: 18 11 22		iiiiii	CONSULTING ENGINEER \$	T: +61 7 3392 3671 E: brisbane@edgece.com	PORT DO	OUGLAS QL	_D 4877		_ L	
DATE: 10.11.22	P3 09.01.23 FOR APPROVAL	ST MS	www.edgece.com						Project No.	FOR APPROVAL
	P2 18.11.22 FOR APPROVAL ST		The concepts + information contained in this document a	the copyright of EDGE Consulting Engineers.	KIM CULLEN & NEIL BIDDLE			220150		
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	Rev Date Description	By Chk	DO NOT SCALE DRAWINGS. IF IN DOU	JUBT, ASK!	ND	ST	MS	1:125	C201	P3

WARNING

THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING SERVICES ON AND EXTERIOR TO THE SITE INCLUDING WATER MAINS, SEWER MAINS, GAS MAINS, TELECOMMUNICATIONS CABLES, ELECTRICAL CABLES, AND STORMWATER PIPES. ANY DAMAGE TO EXISTING SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

LEGEND

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PROPERTY BOUNDARY
EXISTING MINOR &
MAJOR CONTOUR (0.100m)
EXISTING BUILDING
EXISTING RETAINING WALL
EXISTING SWALE
EXISTING STORMWATER
EXISTING WATER
EXISTING SEWER
EXISTING ELECTRICAL
EXISTING ELECTRICAL OVERHEAD
EXISTING TELECOMMUNICATIONS
PROPOSED MINOR &
MAJOR CONTOUR (0.100m)
PROPOSED BUILDING
PROPOSED BATTER TOP
PROPOSED BATTER TOE
PROPOSED RETAINING WALL
PROPOSED SWALE
PROPOSED EARTHWORKS CUT

PROPOSED EARTHWORKS FILL

TEST PIT

EARTHWORKS VOLUMES

100mm STRIP = 260m³ CUT = 3105m³ $FILL = 315m^3$ NOTE: THE ABOVE QUANTITIES DO NOT ALLOW FOR DETAILED BACKFILL BEHIND RETAINING WALLS OR COMPACTION. CONTRACTOR TO MAKE ALLOWANCE.

NOTE

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TEMPORARY BATTERS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT

2.5

RPEQ NAME: ERIN HOGAN			Brisbane . Australia 1st Floor, 28 Balaclava Street.			RPHY STR	REET RESID	ENCE	Drawing Title BULK EARTHWC	Drawing Title BULK EARTHWORKS PLAN SHEET 2	
RPEQ No: 21411			Queensland, 4102, Australia		LOT113	PTD2094 M	IURPHY STRE	ET			
			CONSULTING ENGINEERS	T: +61 7 3392 3671 E: brisbane@edgece.com	PORT D	OUGLAS QI	LD 4877		_ L		
DATE. 16.11.22	P3 09.01.23 FOR APPROVAL	ST MS	www.edgece.com		Client				Project No.		
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WARNING

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	RPEQ NAME: ERIN HOGAN					HNCE	Brisbane . Australia 1st Floor, 28 Balaclava Street.	-
	RPEQ No: 21411			 			Queensland, 4102, Australia	
5 7.5m	DATE: 18.11.22	P3 09.01.23 FOR APPROVAL		ST	MS	ENGINEERS www.edgece.com	T: +61 7 3392 3671 E: brisbane@edgece.com	
@A1	SIGN:	P2 18.11.22 FOR APPROVAL P1 28.09.22 COORDINATION ISSU Rev Date	IE escription	ST ND By	MS MS Chk	The concepts + information contained in this document are Use or copying of this document in whole or in part without constitutes an infringement of copyright. DO NOT SCALE DRAWINGS. IF IN DOUB	the copyright of EDGE Consulting Engineers. the written permission of EDGE Consulting Engineers T, ASK!	

	RPEQ NAME: ERIN HOGAN						isbane . Australia t Floor, 28 Balaclava Street.	
	RPEQ No: 21411						ueensland, 4102, ustralia	
5 7.5m	DATE: 18.11.22	P3 09.01.23 FOR APPROVAL		ST	MS	CONSULTING ENGINEERS www.edgece.com E:	+61 7 3392 3671 brisbane@edgece.com	
@A1	SIGN:	P2 18.11.22 FOR APPROVAL P1 28.09.22 COORDINATION I	SSUE	ST ND	MS MS	The concepts + information contained in this document are the Use or copying of this document in whole or in part without the v constitutes an infringement of copyright.	copyright of EDGE Consulting Engineers. written permission of EDGE Consulting Engineers	
<u></u>		Rev Date	Description	By	Chk	DO NOT SCALE DRAWINGS. IF IN DOUBT, A	ASK!	I

Project Name 12 MURPI	HY STREE	RESIDEN	ICE	Drawing Title BULK EARTHWORKS SECTIONS						
OT113 PTD2094 MURPHY STREET				SHEET 2						
PORT DOU	GLAS QLD 4	877								
Client	EN & NEIL	BIDDLE		Project No. 220150	FOR APP	ROVAL				
Designed	Drawn	Checked	Scale @ A1	Drawing No.		Revision				
ND	ST	MS	1:125	C232		P3				
NĎ	ST	MS	1:125	C232		P3				

LEGEND

PROPERTY BOUNDARY EXISTING MINOR & MAJOR CONTOUR (0.100m) — 11.1 — — — EXISTING BUILDING — — SW — — — EXISTING STORMWATER - - - - - EXISTING WATER EXISTING SEWER — — S — — — — — E — — — EXISTING ELECTRICAL - - - - EXISTING TELECOMMUNICATIONS PROPOSED MINOR & PROPOSED BUILDING PROPOSED BATTER TOP PROPOSED BATTER TOE _____ PROPOSED CONCRETE PROPOSED RETAINING WALL -----> ----- PROPOSED SWALE PROPOSED STORMWATER PROPOSED BUILDING REFER STRUCTURAL DWGS CONCRETE SLAB REFER STRUCTURAL DWGS CONCRETE CROSSOVER REFER FNQROC STD DWG S1110 LANDSCAPING REFER TO LANDSCAPE DRAWINGS

NOTES

- 1. CONTRACTOR TO READ DRAWING IN CONJUNCTION WITH ARCHITECT'S,
- LANDSCAPE, STRUCTURAL AND HYDRAULIC ENGINEER'S PLANS. 2. CONTRACTOR TO CONFIRM LOCATION OF ALL EXISTING SERVICES
- PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY ENGINEER IF ANY DISCREPANCY OR POTENTIAL CLASH IS NOTED.
- 3. ALL EXISTING SERVICE PITS AND LIDS WITHIN EXTENT OF WORKS TO
- BE MODIFIED TO SUIT NEW FINISHED SURFACE LEVELS. 4. FOR CLARITY SUBSOIL DRAINS BEHIND KERBS HAVE NOT BEEN SHOWN.
- ALLOW FOR ALL SUBSOIL DRAINAGE AS REQUIRED AND CONNECTION TO NEAREST DOWN STREAM PIT IF REQUIRED.

2.5

RPEQ NAME: ERIN HOGAN			Brisbane . Australia 1st Floor, 28 Balaclava Street.	
RPEQ No: 21411			Queensland, 4102, Australia	
DATE: 18.11.22	P3 09.01.23 FOR APPROVAL	ST MS	ENGINEERS T: +61 7 3392 3671 www.edgece.com E: brisbane@edgece.com	l
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WARNING

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Project Name				Drawing Title						
12 MURPHY STREET RESIDENCE				STORMWATER & SITE GRADING PLAN						
LOT113 PT	D2094 MURF	PHY STREET	-	SHEET 1						
PORT DOU	GLAS QLD 4	877								
Client				Project No.						
KIM CULL	EN & NEIL	BIDDLE		220150	FOR APPROVAL					
Designed	Drawn	Checked	Scale @ A1	Drawing No.	Revision					
ND	ST	MS	1:125	C301	P3					

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PROPERTY BOUNDARY **EXISTING MINOR &** MAJOR CONTOUR (0.100m) EXISTING BUILDING — — SW — — — EXISTING STORMWATER EXISTING SEWER EXISTING ELECTRICAL EXISTING TELECOMMUNICATIONS PROPOSED MINOR & MAJOR CONTOUR (0.100m) PROPOSED BUILDING PROPOSED BATTER TOP PROPOSED BATTER TOE PROPOSED CONCRETE PROPOSED RETAINING WALL PROPOSED STORMWATER PROPOSED BUILDING REFER STRUCTURAL DWGS CONCRETE SLAB REFER STRUCTURAL DWGS CONCRETE CROSSOVER REFER FNQROC STD DWG S1110 LANDSCAPING

REFER TO LANDSCAPE DRAWINGS

NOTES

- 1. CONTRACTOR TO READ DRAWING IN CONJUNCTION WITH ARCHITECT'S, LANDSCAPE, STRUCTURAL AND HYDRAULIC ENGINEER'S PLANS.
- 2. CONTRACTOR TO CONFIRM LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY ENGINEER IF ANY DISCREPANCY OR POTENTIAL CLASH IS NOTED.
- 3. ALL EXISTING SERVICE PITS AND LIDS WITHIN EXTENT OF WORKS TO BE MODIFIED TO SUIT NEW FINISHED SURFACE LEVELS.
- 4. FOR CLARITY SUBSOIL DRAINS BEHIND KERBS HAVE NOT BEEN SHOWN. ALLOW FOR ALL SUBSOIL DRAINAGE AS REQUIRED AND CONNECTION TO NEAREST DOWN STREAM PIT IF REQUIRED.

RPEQ NAME: ERIN HOGAN			Brisbane . Australia 1st Floor, 28 Balaclava Street.	
RPEQ No: 21411			Queensland, 4102, Australia	
DATE: 18.11.22	P3 09.01.23 FOR APPROVAL	ST MS	ENGINEERSI: +61733923671www.edgece.comE: brisbane@edgece.com	L
SIGN:	P2 18.11.22 FOR APPROVAL P1 28.09.22 COORDINATION ISSUE	ST MS ND MS	The concepts + information contained in this document are the copyright of EDGE Consulting Engineers. Use or copying of this document in whole or in part without the written permission of EDGE Consulting Engineers constitutes an infringement of copyright.	
	Rev Date Description	By Chk	DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!	

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Project Name				Drawing Title						
12 MURPHY STREET RESIDENCE				STORMWATER & SITE GRADING PLAN						
LOT113 PTD2094 MURPHY STREET				SHEET 2						
PORT DOUGLAS QLD 4877										
Client				Project No.						
KIM CULL	EN & NEIL	BIDDLE		220150	FOR APPROVAL					
Designed	Drawn	Checked	Scale @ A1	Drawing No.	Revision					
ND	ST	MS	1:125	C302	P3					
		•								

		NAT	URA	_ SU	RFA	ACE				IP - RL 27.636					CL02 CH 61.112		
	P SWATER	IP - RL 21.307	SURF	ACE												P SWATER	
HORIZONTAL CURVE	0	.16%			22	 2.19′	- <u>22.</u> %	791	*	_				1%			
VC LENGTH (m) VC RADIUS (m) DATUM RL 14.0		E 18.16r	n		1					15 70.	8m	>					
NATURAL SURFACE LEVELS	21.303	21.299	21.615	21.895	22.448	24.117	24.988	25.648	26.248	26.984		700.12	27.817		27.766		28.054
CUT / FILL		0.004	-0.136	-0.144	-0.023	0.145	0.255	0.324	0.364	0.255		0.UZ	-0.089		0.162		-0.000
DESIGN LEVELS		21.303	21.481	21.750	22.425	24.261	25.243	25.972	26.612	27.239		11/.17	27.728		27.928		28.054
CHAINAGE	0.000	0.257	2.768	4.257	7.296	15.574	20.000	23.285	26.497	30.785		20.205	40.000		60.000		72.606

LONGITUDINAL SECTION - CL01

SCALE 1 : 500 Horiz. 1 : 100 Vert.

	CL01 CH 0.000		IP - RL 28.123		
IORIZONTAL CURVE		P SWATER			
GRADE (%)		1.9%	>	\checkmark	
′C LENGTH (m) ′C RADIUS (m)			6 29.8	m 35m	
DATUM RL 20.0					
IATURAL SURFACE EVELS	27.773	27.855	28.181	28.691	
CUT / FILL	0.166	0.212	0.093	0.092	
DESIGN EVELS	27.939	28.066	28.274	28.783	
HAINAGE	000.0	6.701	9.701	12.701	

2	3m	RPEQ NAME: ERIN HOGAN					HDGE	Brisbane . Australia 1st Floor, 28 Balaclava Street. Woolloongabba,
@A1		RPEQ No: 21411			 	 	CONSULTING	Queensland, 4102, Australia
20	30m	DATE: 09.01.23			 	 	ENGINEERS www.edgece.com	T: +61 7 3392 3671 E: brisbane@edgece.com
@A1		SIGN:	P1 09.01.23 FOR APPRO	VAL	ST	MS	The concepts + information contained in this document are Use or copying of this document in whole or in part without t constitutes an infringement of copyright.	the copyright of EDGE Consulting Engineers. he written permission of EDGE Consulting Engineers
			Rev Date	Description	By	Chk	DO NOT SCALE DRAWINGS. IF IN DOUB	T, ASK!

LONGITUDINAL SECTION - CL02

SCALE 1 : 500 Horiz. 1 : 100 Vert.

Project Name
12 MURPHY STREET RESIDENCE Drawing Title DRIVEWAY LONGITUDINAL SECTIONS LOT113 PTD2094 MURPHY STREET PORT DOUGLAS QLD 4877 Project No. **220150** Clion FOR APPROVAL
 KIM CULLEN & NEIL BIDDLE

 Designed
 Drawn

 ND
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 Scale @ A1 Drawing No.
AS SHOWN C331 Designed ND Revision **P1**

HORIZ:

0 20 SCALE 1:1000

4	6m	RPEQ NAME: ERIN HOGAN			HDGE	Brisbane . Australia 1st Floor, 28 Balaclava Street. Woolloongabba,	Project Name 12 MUR	PHY STRE	ET RESIDE	NCE	Drawing Title STORMWATER LC	NGITUDINAL
) @A1		RPEQ No: 21411			CONSULTING ENGINEER S	Queensland, 4102, Australia	LOT113 F PORT DO	PTD2094 MU DUGLAS QLI	IRPHY STREE D 4877	Т	SECTIONS	
40	60m	DATE: 18.11.22	P3 09.01.23 FOR APPROVAL P2 18.11.22 FOR APPROVAL	ST MS ST MS	www.edgece.com The concepts + information contained in this docume	E: brisbane@edgece.com ent are the copyright of EDGE Consulting Engineers.	Client	LLEN & NE	IL BIDDLE		Project No. 220150	FOR APPROVAL
0 @A1		SIGN:	P1 28.09.22 COORDINATION ISSUE Rev Date De	E ND MS scription By Chk	Use or copying of this document in whole or in part wi constitutes an infringement of copyright. DO NOT SCALE DRAWINGS. IF IN DO	thout the written permission of EDGE Consulting Engineers OUBT, ASK!	Designed ND	Drawn ST	Checked MS	Scale @ A1 AS SHOWN	Drawing No.	Revision P3

ROPOSED CONCRETE PROPOSED RETAINING WALL

RPEQ NAME: ERIN HOGAN

RPEQ No: 21411

DATE: 18.11.22

SIGN:

WARNING

P3 09.01.23 FOR APPROVAL

P2 18.11.22 FOR APPROVAL

Rev Date

P1 28.09.22 COORDINATION ISSUE

Description

THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING SERVICES ON AND EXTERIOR TO THE SITE INCLUDING WATER MAINS, SEWER MAINS, GAS MAINS, TELECOMMUNICATIONS CABLES, ELECTRICAL CABLES, AND STORMWATER PIPES. ANY DAMAGE TO EXISTING SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

WATER NOTES

- 1. CONSTRUCT EMBEDMENT AND TRENCH FILL TO FNQROC STD DWG S2016 AND DOUGLAS SHIRE COUNCIL FOR ROADWAYS.
- WITH FNQROC STD DWG S2016.
- S2025, S2038 & S2050.
- AND PROPERTY SERVICES.
- 6. CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO
- S2011, & S2012.

GENERAL NOTES

- SPECIFICATIONS AND STANDARDS.
- STANDARDS.
- PERMANENT LEVEL. 4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN FNQROC STD DWG S2016.
- 5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- 6. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWINGS. 7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE COUNCIL APPROVED PRODUCT REGISTER OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY DOUGLAS SHIRE COUNCIL. 8. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER
- MAINS. SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM. COMPLETED USING SUPPORT EMBEDMENT IN ACCORDANCE WITH FNQROC STD DWG S2016.
- 9. THE CONSTRUCTION OF THE WATER RETICULATION WORK 10. PROPOSED WATER CONNECTION WORKS TO BE

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NTS

- 2. PROVIDE BULKHEADS / TRENCH STOPS IN ACCORDANCE
- 3. CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES,
- TAPERS AND DEAD ENDS TO FNQROC STD DWG S2015. 4. CONSTRUCT PROPERTY SERVICES TO FNQROC STD DWGS
- 5. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS
- FNQROC STD DWG S2000, 2001, & S2005.
- 7. INSTALL PAVEMENT MARKERS TO FNQROC STD DWG S2010.

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT FAR NORTH QUEENSLAND REGIONAL
- ORGANISATION OF COUNCILS WATER RETICULATION CODE
- 2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN

3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS

VEGETATION PROTECTION

NORTH

- TREES LOCATED ALONG THE FOOTPATH SHOULD BE, WHERE POSSIBLE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED A. SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

REHABILITATION

- A. PRE DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PRE DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

SAFETY

A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

ALL WATER AND SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WORKPLACE HEALTH AND SAFETY LEGISLATION.

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

Project Name 12 MUF	RPHY STR	EET RESID	ENCE	Drawing Title WATER RETICULATION PLAN							
LOT113	PTD2094 MI	JRPHY STRE	ET								
	OUGLAS QL	D 4877									
Client	ILLEN & NI	EIL BIDDLE		Project No.	FOR APPROVAL						
Designed	Drawn	Checked	Scale @ A1	Drawing No.	Revision						
ND	ST	MS	1:125	C601	P3						

MAJOR CONTOUR (0.100m)

Description

Rev Date

SEWER MAINS, GAS MAINS, TELECOMMUNICATIONS CABLES, ELECTRICAL CABLES, AND STORMWATER PIPES. ANY DAMAGE TO EXISTING SERVICES

SEWER NOTES

- SPECIFICATIONS AND STANDARDS.
- STANDARDS. 3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE FNQROC SERVICE PROVIDER SEWERAGE SYSTEM.
- REGISTER.
- 6. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A 150Ø PROPERTY CONNECTION SHALL BE PROVIDED. 7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- 1000mm. 9. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE FNQROC SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- 10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FNQROC SEWER CODE.
- 11. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS. 12. SEWERS SHALL BE DISUSED / ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE FNQROC SEWER CODE.
- COST.

 		Brisbar Ist Floor Woolloc	n e . Australia r, 28 Balaclava Street. ongabba,		Project 12			
 	 	Queens Australia	sland, 4102, a		LOT			
 	 	CONSULTING ENGINEERS T: +61	7 3392 3671	L	POF			
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By	Chk	DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!		.	ND			

LOCALITY PLAN NTS

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT FAR NORTH QUEENSLAND REGIONAL
- ORGANISATION OF COUNCILS SEWER SYSTEM CODE
- 2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN
- 4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR
- MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE FNQROC SERVICE PROVIDER AT THE DEVELOPER'S COST. 5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE COUNCIL APPROVED PRODUCT
- 8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF

- 13. BENCH MARK AND LEVELS TO AHD. 14. EXISTING ALLOTMENTS REQUIRING A PROPERTY
- CONNECTION FROM EXISTING SEWERS SHALL BE PROVIDED BY THE FNQROC SERVICE PROVIDER AT THE DEVELOPERS

VEGETATION PROTECTION

NORTH

- TREES LOCATED ALONG THE FOOTPATH SHOULD BE, WHERE POSSIBLE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

REHABILITATION

- PRE DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PRE DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

SAFETY

A. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

ALL WATER AND SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WORKPLACE HEALTH AND SAFETY LEGISLATION.

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

Project Name 12 MURPHY STREET RESIDENCE				Drawing Title SEWER RETICULATION PLAN		
LOT113 PTD2094 MURPHY STREET						
PORT D	OUGLAS QL	_D 4877				
Client	JLLEN & N	EIL BIDDLE		Project No. 220150	FOR APPROVAL	
Designed	Drawn	Checked	Scale @ A1	Drawing No.	Revision	
ND	ST	MS	1:125	C701	P3	

Form 15

This form is to be used by an appointed competent person for the purposes of section 10 of the *Building Act 1975* and sections 73 and 77 of the Building Regulation 2021 (Design-specification certificate) stating that an aspect of building work or specification will, if installed or carried out as stated in this form, comply with the building assessment provisions.

Additional explanatory information is included in the Appendix at the end of this form.

1. Property description

This section need only be completed if details of street address and property description are applicable.

E.g. in the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable.

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address	12 Murphy St, Port Douglas							
		Suburb/locality	Port Douglas					
State QLD Postcode 4877								
Lot and plan det	ails (attach list if necessary)							
LOT 113 PTD20	LOT 113 PTD2094							
Local government area the land is situated in								
Douglas Shire Council								

2. Description of aspect/s certified

Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.

Structural Engineering aspects associated for the external work retention systems including concrete and blockwork cantilevered retaining walls and associated footings.

Exclusions:

Soil nails, soil nail shotcreting and footing

3. Basis of certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.

AS/NZS 1170.0:2002 – Structural Design Actions – General Principles AS/NZS 1170.1:2002 – Structural Design Actions – Permanent, Imposed and Other Actions AS/NZS 3600:2018 – Concrete Structures AS 4678:2002 Earth Retaining Structures

4. Reference documentation

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

DRAWINGS BY EDGE CONSULTING ENGINEERS Job number: 220150, Drawings S0500, S0501,S0502,S0503,S0504,S0510,S0520,S2510,S0520,S2501,S2502,S3000,S3001,S3010,S3011,S3012 revision P02.

5. Building certifier reference number and building development approval number

Building certifier reference number	Building development application number <i>(if</i> <i>available)</i>	
-------------------------------------	--	--

6. Appointed competent person details

Under Part 6 of the Building Regulation a person must be assessed as a competent for the type of work (design-specification) by the relevant building certifier.

Name <i>(in full)</i>	TIMOTHY MICHAEL PETERS				
Company name (if applicable)	EDGE CONSULTING ENGIN	IEERS			
Contact person	TIM PETERS				
Business phone number	(07) 3367 3570		Mobile		
Email address	brisbane@edgece.com				
Postal address	PO Box 6148				
		Suburb/	locality	Woolloongabba	
State QLD		Postcode		4102	
Licence class or registration type <i>(if applicable)</i>	RPEQ				
Licence or registration number (<i>if applicable</i>)	RPEQ 5496				

9. Signature of appointed competent person

This certificate must be signed by the individual assessed and appointed by the building certifier as competent to give designspecification help.

Signature

() M. Atte

Date 16 December 2022

LOCAL GOVERNMENT USE ONLY

Date received

Reference number/s

Appendix – explanatory information

IMPORTANT NOTE: it is an offence for a competent person to give a building certifier a document, including this form, that the person knows or reasonably suspects, is false or misleading.

Who can complete this certificate? (sections 10 of the *Building Act 1975* (Building Act) and 73 of Building Regulation 2021 (BR 2021))

A building certifier can accept from a competent person (design – specifications) a certificate stating that the competent person has assessed the building design or specification for the aspect of building work, and it will, if installed or carried out under the certificate, comply with the building assessment provisions, including any relevant standards and codes.

Schedule 10 of the BR 2021 defines *building design or specification* as any material, system, method of building or other thing related to the design of or specifications for building work.

For a competent person to meet the regulation requirements (section 77 of the BR 2021) they must substantially complete all sections of this form, including information, such as the design of a particular material, system, method of building or that a building element complies with the Building Code of Australia or a provision of the Queensland Development Code. It is also important that the details of the relevant reference documents are included, for example, the applicable Australian Standards or other technical provisions that may be applicable to the subject work.

What is the purpose of this form? (section 10 of the Building Act 1975)

The information in this form informs the building certifier's decision making when they are assessing a building development application and issuing the building development approval for the building work the subject of the certificate (form).

When is this form not required?

The assessment of some building applications will be entirely within the expertise of the relevant building certifier and therefore they may not seek the help of a competent person. In these instances, this form is not required.

Is a manufacturer or supplier required under the BR 2021 to complete and sign this Form 15, if requested?

No. A manufacturer or supplier of building materials is not required to complete and give this form or any aspect and inspection certificates if requested by a construction contractor, builder, appointed competent person, or a building certifier.

However, a manufacturer or supplier <u>may give</u> the construction contractor, builder, competent person or the building certifier evidence of suitability such as a manufacturers statement for an aspect or material that it is compliant with the relevant reference documents in the BCA i.e. the applicable Australian Standard/s.

What if there is not enough space for all the supporting material/documents?

Items 2, 3 and 4 requires the competent person to clearly identify the extent of the assessment that was undertaken for aspect/s of work identified in this form.

For instance, there is provision for material such as specifications, standards, codes or other relevant publications to be referenced in the form. However, if the space in the form is not sufficient to accommodate all of this material, you can create and refer to additional material in an addendum or attachment to the form.

The form is also available in a Microsoft Word version, that you can download and edit to include additional material in the relevant parts of the form. **Note**: that editing the form in the Microsoft Word version may cause the relevant boxes to expand and increase the length of the document. This is acceptable and does not change the approved form, provided the section text (description on the left-hand side of the page) is not altered.

Appointed competent person (design or specification) - (sections 34 and 36 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A building certifier must be satisfied that an individual is competent to give the type of inspection help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

An individual is appointed as competent to give design-specification help on or from a particular day. The building certifier can also decide an individual is a competent person (design-specification) and a competent person (inspection) at the same time or for the same systems or components of the work.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons.**

PRIVACY NOTICE

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.

<u>COLUMNS ANI</u>	<u>D WALLS</u>	
	DESCRIPTION	REFERENCE
	CONCRETE COLUMN	CC.01, BC.01,
	CONCRETE WALL	CW.01, CU.01
	PRECAST WALL	PCW.01, PCU
	BLOCK WALL (LB)	B140.A, B190

	CC.01, DC.01, TC.01 ETC
TE WALL	CW.01, CU.01 etc
ST WALL	PCW.01, PCU.01 etc
WALL (LB)	B140.A, B190.A, B290.A etc
WALL (NLB)	B190.B, BU190.A, BP190.A etc.
ETARY WALL	AFS-AW200.A, DINCEL-DW200
ORK SYSTEM	RITEK-RW200.A etc

+ .	FOOTING	DETAILS	

COLLING DEL		
	DESCRIPTION	
SF.1	STRIP FOOTING	EB.
GB.1		IB.1
	GROUND BEAM	
PF.1	PAD FOOTING	\bigcirc
<u></u> вр.1	BORED PILE	
DEEED EAATN		. с. т.

STRIP FOOTING SCHEDULE							
TYPE	PE SIZE		GRADE	REO kg/m³			
	DEPTH	WIDTH					
SF.1	300	600	N32	60			
SF.2	600	600	N32	80			
SF.3	300	900	N32	80			
SF.4	300	1200	N32	80			
SF.5	300	1600	N32	80			
SF.6	300	1400	N32	80			
SF.7	300	2200	N32	80			
SF.8	300	3100	N32	80			
SF.9	300	3500	N32	80			
SF.10	300	3600	N32	80			
SF.11	300	4900	N32	80			

BLOCKWORK SCHEDULE						
MARK BLOCK CORE FILL REINFORCEMENT			REMARKS			
STRENGTH	GRADE	VERTICAL	HORIZONTAL			
N15	N25	N16.400	N12.400	LOAD BEARING		
N15	N25	REFER DETAIL	REFER DETAIL	REFER DETAIL ON DRAWING S3011 - LOAD BEARING / RETAINING		
N15	N25	N16.200	N16.400	LOAD BEARING / RETAINING		
	BLOCK STRENGTH N15 N15 N15	BLOCK STRENGTHCORE FILL GRADEN15N25N15N25N15N25	BLOCK STRENGTHCORE FILL GRADEREINFOL VERTICALN15N25N16.400N15N25REFER DETAILN15N25N16.200	BLOCK WORK SCHBLOCK STRENGTHCORE FILL GRADEREINFORCEMENT00VERTICALHORIZONTALN15N25N16.400N12.400N15N25REFER DETAILREFER DETAILN15N25N16.200N16.400		

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					<u>=</u> GE	Brisbane, Australia 1st Floor, 28 Balaclava Street, Woolloongabba, Queensland, 4102 Australia
					CONSULTING ENGINEERS www.edgece.com	T: +61 7 3392 3671 E: brisbane@edgece.com
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Client	ESIGN			- Project No. 220150	OP WORKS NOT FOR CONSTRUCTION
Designed ZP	Drawn J S	Checked	Scale @ A1 1 : 50	Drawing No.	Revision P02

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PLOT DATE

		<u>=</u> JGE	Brisbane, Australia 1st Floor, 28 Balaclava Street, Woolloongabba, Queensland, 4102 Australia	Project Name MURPHY LOT 113 PORT DO	STREET RES PTD 2094 MU PUGLAS	SIDENCE IRPHY STRE	ET	Drawing Title FOOTING AND SLAB DETAILS - SHEET 1	
		CONSULTING ENGINEERS www.edgece.com	T: +61 7 3392 3671 E: brisbane@edgece.com	Client				L Project No.	
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Re Dat Description	By Chk	DO NOT SCALE DRAWINGS. IF IN DOUB	T, ASK!	ZP	JS	MW	1:20	S2501	P02

FOOTING STEP FOR GENTLE SLOPES SCALE 1:20

PLDT

				C O N S U LT I N G E N G I N E E R S WWW.edgece.com	Brisbane, Australia 1st Floor, 28 Balaclava Street, Woolloongabba, Queensland, 4102 Australia T: +61 7 3392 3671 E: brisbane@edgece.com	Project Name MURPHY LOT 113 PORT DO Client HUNT DE	STREET R PTD 2094 N DUGLAS	ESIDENCE IURPHY STR	EET	Drawing Title FOOTING AND SLAB DETAILS - SHEET 2 Project No. 220150	OP WORKS
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Project Name MURPH LOT 113 PORT D(Ý STREET R PTD 2094 N DUGLAS	ESIDENCE IURPHY STR	EET	Drawing Title BLOCK WALL DE SHEET 1	TAILS
Client	ESIGN			Project No. 220150	OP WORKS NOT FOR CONSTRUCTION
Designed	Drawn	Checked	Scale @ A1	Drawing No.	Revision
ZP	JS	MW	1:20	S3000	P02

BUILDING RETAINING WALL DETAIL A

SCALE 1:20

0 mm 10 20 30 40 50

<u>NOTE</u>: REFER GENERAL REINFORCEMENT NOTES FOR ALL LAP LENGTHS.

BUILDING RETAINING WALL DETAIL B

SCALE 1:20 <u>NOTE:</u> REFER GENERAL REINFORCEMENT NOTES FOR ALL LAP LENGTHS.

			Brisbane, Australia 1st Floor, 28 Balaclava Street, Woolloongabba, Queensland, 4102 Australia	Project Name MURPHY LOT 113 PORT D((STREET R PTD 2094 N DUGLAS	ESIDENCE IURPHY STR	REET	Drawing Title BLOCK RETAIIN SHEET 1	ING WALL DETAILS
		www.edgece.com	T: +61 7 3392 3671 E: brisbane@edgece.com	Client	ESIGN			- Project No. 220150	
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RETAINING WALL BR190.A DETAIL TYPE A SCALE 1:20

NOTE: REFER GENERAL REINFORCEMENT NOTES FOR ALL LAP LENGTHS.

	RETAINING WALL TYPE A SCHEDULE ACTIVE PRESSURE COEFFICIENT - Ka 0.36													
WALL DI	MENSIONS		FOOTING D	IMENSIONS	WALL REIN	WALL REINFORCEMENT FOOTING REINFORCEMENT								
HEIGHT 'H'	width 'w'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL	HORIZONTAL	STARTERS	вотто	1 BARS	TOP	BARS		
									LAYER 1	LAYER 2	LAYER 3	LAYER 4		
800	190	650	300	300	500	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1000	190	750	300	300	600	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1200	190	850	300	300	650	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1400	190	1000	300	300	650	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1600	190	1250	350	300	700	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1800	190	1450	350	300	750	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400		
2000	190	1650	350	300	750	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400		

	RETAINING WALL TYPE A SCHEDULE ACTIVE PRESSURE COEFFICIENT - Ka 0.42													
WALL DIMENSIONS FOOTING DIMENSIONS WALL REINFORCEMENT FOOTING										g reinford	EMENT			
HEIGHT 'H'	width 'w'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL HORIZONTAL STAR			BOTTO	1 BARS	TOP	BARS		
									LAYER 1	LAYER 2	LAYER 3	LAYER 4		
800	190	700	300	300	650	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1000	190	800	300	300	700	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1200	190	950	300	300	800	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1400	190	1100	300	300	850	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1600	190	1350	350	300	900	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400		
1800	190	1600	350	300	950	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400		
2000	190	1850	350	300	1000	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400		

RETAINING WALL TYPE B SCHEDULE ACTIVE PRESSURE COEFFICIENT - <u>Ka 0.30</u> WALL DIMENSIONS FOOTING DIMENSIONS WALL REINFORCEMENT FOOTING REINFORCEMENT Height 'h' width 'w' dim 'a' dim 'b' DIM 'C' DIM 'D' VERTICAL HORIZONTAL STARTERS BOTTOM BARS TOP BARS LAYER 1 LAYER 2 LAYER 3 LAYER 4 N12.400 N12.400 N12.400 N16.400 N16.400 N16.400 N16.400 N12.400 N12.400 N12.400 N16.400 N16.400 N16.400 N16.400 N12.400 N12.400 N16.400 N16.400 N16.400 N16.400 N12.400 N12.400 N12.400 N12.400 N16.400 N16.400 N16.400 N16.400 N12.400 N12.400 N12.400 N16.400 N16.400 N16.400 N16.400 N12.400 N16.400 N16.400 N16.400 N16.400 N12.400 N12.400 N16.400 N12.400 N16.400 N16.400 N16.400 N16.400 N16.400

				RET	'AINING W	ALL TYP	E B SCHE	DULE							
	ACTIVE PRESSURE COEFFICIENT – <u>Ka 0.36</u>														
WALL DI	1ENSIONS		FOOTING D	IMENSIONS		WALL REIN	IFORCEMENT	FOOTING REINFORCEMENT							
height 'h'	width 'w'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL HORIZONTAL STARTERS			BOTTO	1 BARS	TOP BARS				
									LAYER 1	LAYER 2	LAYER 3	LAYER 4			
800	190	700	350	350	600	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400			
1000	190	800	350	350	700	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400			
1200	190	950	350	350	800	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400			
1400	190	1150	350	350	850	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400			
1600	190	1400	350	350	950	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400			
1800	190	1650	450	450	1050	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400			
2000	190	1900	450	450	1150	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400			

				RET ACTI	RETAINING WALL TYPE B SCHEDULE ACTIVE PRESSURE COEFFICIENT - Ka 0.42 WALL DIMENSIONS FOOTING DIMENSIONS WALL REINFORCEMENT FOOTING REINFORCEMENT											
WALL D	WALL DIMENSIONS FOOTING DIMENSIONS				WALL REIN	IFORCEMENT	IENT FOOTING REINFORCEMENT									
Height 'h'	width 'w'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL	HORIZONTAL	STARTERS	BOTTO	1 BARS	TOP	BARS				
									LAYER 1	LAYER 2	LAYER 3	LAYER 4				
800	190	900	450	450	750	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400				
1000	190	1150	450	450	850	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400				
1200	190	1450	450	450	950	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400				
1400	190	1750	450	450	1050	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400				
1600	190	2000	450	450	1150	N12.400	N12.400	N12.400	N16.400	N16.400	N16.400	N16.400				
1800	190	2300	450	450	1250	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400				
2000	190	2600	450	450	1350	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400	N16.400				

					<u>=</u> JGE	Brisbane, Australia 1st Floor, 28 Balaclava Street, Woolloongabba, Queensland, 4102 Australia
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Re	Dat	Description	Ву	Chk	DO NOT SCALE DRAWINGS. IF IN DOUBT,	ASK!

Project Name MURPHY S LOT 113 P PORT DOU	STREET R TD 2094 N IGLAS	ESIDENCE IURPHY STR	EET	BLOCK RETAINI SHEET 2	NG WALL DETAILS
Client	IGN			Project No. 220150	OP WORKS NOT FOR CONSTRUCTION
Designed	Drawn	Checked	Scale @ A1	Drawing No.	Revision
ZP	JS	MW	AS SHOWN	S3011	P01

<u>RETAINING WALL BR290/190.B DETAIL TYPE A</u>

SCALE 1:20 <u>NOTE:</u> REFER GENERAL REINFORCEMENT NOTES FOR ALL LAP LENGTHS.

RETAINING	WALL	TYPE	Α	SCHEDUL	_E
CTIVE DDECC			×-	. 0 20	

				ACTIV	'E PRESSURE	COEFFICIENT	– <u>Ka 0.30</u>						
WA	LL DIMENSIO	NS		Footing D	IMENSIONS		WALL REIN	FORCEMENT	FOOTING REINFORCEMENT				
height 'h'	'H–300'	'H–200'	DIM 'A'	DIM 'B'	DIM 'C'	dim 'd'	VERTICAL	HORIZONTAL	STARTERS	BOTTO	1 BARS	TOP	BARS
	SERIES	SERIES								LAYER 1	LAYER 2	LAYER 3	LAYER 4
2200	800	1400	1700	350	300	650	N12.400	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400
2400	800	1600	2250	450	450	800	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2600	1000	1600	2600	450	450	850	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2800	1000	1800	2800	450	450	900	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400

				RET	aining W.	ALL TYPE	A SCHEI	DULE					
				ΑΓΤΙΥ		COFFEICIENT	- Ka 036						
					LINESSONE	COLITICIENT	- <u>Na 0.50</u>						
WA	all dimensio	NS		FOOTING DIMENSIONS WALL REINFORCEMENT FOOTING REINFORCEMENT									
Height 'h'	'H–300'	'H–200'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL	HORIZONTAL	STARTERS	BOTTO	1 BARS	TOP	BARS
	SERIES	SERIES								LAYER 1	LAYER 2	LAYER 3	LAYER 4
2200	800	1400	1950	350	300	700	N12.400	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400
2400	800	1600	2450	450	450	800	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2600	1000	1600	2850	450	450	900	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2800	1000	1800	3350	450	450	950	N16.200	N16.400	N16.200	N16.400	N16.400	N16.200	N16.200

				RET ACTIV	AINING WA	ALL TYPE	A SCHEI - <u>Ka 0.42</u>	DULE					
WA	ALL DIMENSIO	NS		FOOTING D	IMENSIONS		WALL REIN	FORCEMENT		FOOTIN	g reinford	EMENT	
нгібнт 'н'	'H–300'	'H–200'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL	HORIZONTAL	STARTERS	BOTTO	1 BARS	TOP	BARS
	SERIES	SERIES								LAYER 1	LAYER 2	LAYER 3	LAYER 4
2200	800	1400	2350	450	450	1000	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2400	800	1600	2700	450	450	1000	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2600	1000	1600	3150	450	450	1000	N16.200	N16.400	N16.200	N16.400	N16.400	N16.200	N16.200
2800	1000	1800	3650	450	450	1100	N16.200	N16.400	N16.200	N16.400	N16.400	N16.200	N16.200

NOTE: REFER GENERAL REINFORCEMENT NOTES FOR ALL LAP LENGTHS.

				RET ACTI	FAINING V IVE PRESSUR	ALL TYP	РЕВ SCHE т – <u>Ка 0.30</u>	DULE					
WA	ll dimensio	NS	FO	OTING DIMEN	SIONS		WALL REIN	FORCEMENT		FOOTIN	g reinford	EMENT	
height 'h'	'H–300'	'H–200'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL	HORIZONTAL	STARTERS	BOTTO	M BARS	TOP	BARS
	SERIES	SERIES								LAYER 1	LAYER 2	LAYER 3	LAYER 4
2200	800	1400	1500	450	450	1000	N12.400	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400
2400	800	1600	1650	450	450	1050	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2600	1000	1600	1850	450	450	1150	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2800	1000	1800	2050	450	450	1200	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400

				RET A	AINING WA	ALL TYPE	B SCHED - <u>Ka 0.36</u>	ULE					
WA	ALL DIMENSIO	NS	F001	ing dimensio	DNS		WALL REINI	ORCEMENT		FOOTIN	g reinford	EMENT	
height 'h'	'H–300'	'H–200'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL	HORIZONTAL	STARTERS	BOTTO	1 BARS	TOP	BARS
	SERIES	SERIES								LAYER 1	LAYER 2	LAYER 3	LAYER 4
2200	800	1400	2050	450	450	1200	N12.400	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400
2400	800	1600	2300	450	450	1300	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2600	1000	1600	2550	450	450	1400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2800	1000	1800	2800	450	450	1500	N16.200	N16.400	N16.200	N16.200	N16.200	N16.400	N16.400

				RET A	AINING WA	ALL TYPE	B SCHED - <u>Ka 0.42</u>	ULE					
WA	ALL DIMENSIO	NS	F001	ring dimensio	ONS		WALL REIN	ORCEMENT		FOOTIN	g reinford	EMENT	
HEIGHT 'H'	'H–300'	'H–200'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	VERTICAL	HORIZONTAL	STARTERS	вотто	1 BARS	TOP	BARS
	SERIES	SERIES								LAYER 1	LAYER 2	LAYER 3	LAYER 4
2200	800	1400	2850	450	450	1400	N16.400	N16.400	N12.400	N16.400	N16.400	N16.400	N16.400
2400	800	1600	3200	450	450	1550	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400	N16.400
2600	1000	1600	3500	450	450	1650	N16.200	N16.400	N16.400	N16.200	N16.200	N16.400	N16.400
2800	1000	1800	3800	450	450	1750	N16.200	N16.400	N16.200	N16.200	N16.200	N16.400	N16.400

					Brisbane, Australia 1st Floor, 28 Balaclava Street, Woolloongabba, Queensland, 4102 Australia
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Re	Dat	Description	By	Chk	DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!

MURPHY S LOT 113 P PORT DOU	STREET R TD 2094 N IGLAS	ESIDENCE IURPHY STR	EET	BLOCK RETAINI SHEET 3	NG WALL DETAILS
Client	IGN			Project No. 220150	OP WORKS NOT FOR CONSTRUCTION
Designed	Drawn	Checked	Scale @ A1	Drawing No.	Revision
ZP	JS	MW	AS SHOWN	S3012	P01

PROPERTY BOUNDARY	
	 <u>28mmØ SOILNAILS</u> (TYP) 1.7m EMBEDMENT INSTALLED AND GROUTED IN 127mmØ DRILLED HOLES 1.0m H 1.0m V GRID
SPACI	ቃ <u>uPVC SUB HORIZONTAL DRAIN</u> FILTER SOCK 1.8m LONG @ 3m H NG IN MIN. 90mmø DRILLED HOLE
	ISSUED FOR PRELIMINARY NOT FOR CONSTRUCTION
OJECT 12 LE	PROPOSED RETAINING WALL MURPHY STREET, PORT DOUGLAS TYPICAL SECTIONS
OJECT № 220	21AA-D DRAWING No C02 REV A A3

N.T.S.

REV	DESCRIPTION	APP'D	DATE	
P1	PRELIMINARY ISSUE		14/07/22	

R.P.E.Q. NAME:	Steve Ford	
R.P.E.Q. No.:	25762	
SIGNATURE:		
DATE:		

GEO

CLIENT	NEIL BIDDLE & KIM CULLEN			PROJECT	PROPOS 12 MURPHY S
DRAWN	KCDD	DATE	05/01/23	TITLE	MISCEL
CHECKED	EWK	DATE	05/01/23		
SCALE	AS SHOWN	•		PROJECT No	22021AA-D

DRAWING No

C03

REV A A3

LANEOUS DETAILS

SED RETAINING WALL STREET, PORT DOUGLAS

